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Tidal Propagation Measurements in Baffin Bay, Lancaster Sound, and Nares Strait

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and B. van Hardenburg

Published by:
Atlantic Region
Canadian Hydrographic Service
Department of Fisheries and Oceans

Bedford Institute of Oceanography
P.O. Box 1006
Dartmouth, Nova Scotia B2Y 4A2

April 1986

**Canadian Contractor Report of
Hydrography and Ocean Sciences
No. 25**



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Canadian Contractor Report of Hydrography and Ocean Sciences

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TIDAL PROPAGATION MEASUREMENTS IN BAFFIN
BAY, LANCASTER SOUND, AND NARES STRAIT

by

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Published by:
Atlantic Region
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Dartmouth, Nova Scotia
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* Prepared under contract nos. 12SC.FP901-4-R525, R526 and R527 for the
Canadian Hydrographic Service

ACKNOWLEDGEMENTS

A large number of individuals, companies and agencies contributed to the success of this project.

Mr. Dale McCullough of Dobrocky Seatech is especially commended for the superb job he did preparing for and carrying out both the deployment and recovery phases of the field program. The success of this project was due in no small measure to his skill, patience and perseverance. He was ably assisted by Graham Lutwick (Canadian Hydrographic Service at the Bedford Institute of Oceanography, Department of Fisheries and Oceans) during the deployment.

Bradley Air Services and, in particular, Captain Ken Lee, also contributed significantly to the project. Captain Lee's expert flying, often under very difficult conditions, was greatly appreciated.

The Polar Continental Shelf Project (Department of Energy, Mines and Resources) made a major contribution to this project. The support, advice and encouragement of George Hobson, Director, Frank Hunt, Field Operations Manager and Barry Hough, Base Camp Manager, Resolute Bay is often vital to the success of the hundreds of projects such as this that they are involved in every year.

Willi Rapatz, Fred Stephenson and the staff of the Tidal Division, Canadian Hydrographic Service, Department of Fisheries and Oceans, Institute of Ocean Sciences, Sidney, British Columbia were very helpful.

The assistance of David Tidbury and his staff at Weather Station Eureka and Major Jardine and his staff at C.F.S. Alert was also appreciated.

Finally we thank the Danish Government and the people of Greenland for permission to temporarily deploy our tide gauges and current meters in their waters in Nares Strait. In particular we wish to mention Dr. Ivan Hallberg, Director, Greenland Technical Organization and Captain Knud Kaergard, Hydrographer, Royal Danish Administration of Navigation and Hydrography.

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Cat. No. FS 97-17/25E ISSN 0711-6748

Correct citation for this publication:

Greisman, P., Grant, S., Blaskovitch, A., and van Hardenberg, B. 1986. Tidal propagation measurements in Baffin Bay, Lancaster Sound and Nares Strait. Can. Contract. Rep. Hydrogr. Ocean Sci. No. 25: viii + 548 p.

ABSTRACT

Greisman, P., Grant, S., Blaskovitch, A., and van Hardenberg, B. 1986. Tidal propagation measurements in Baffin Bay, Lancaster Sound and Nares Strait. Can. Contract. Rep. Hydrogr. Ocean Sci. No. 25: viii + 548 p.

We deployed twenty-nine tide gauges and five current meters through the sea ice along the east coast of Baffin Island, in Lancaster Sound and in Nares Strait during late February and recovered them in late April of 1985. Most of the instruments collected data of good quality. In addition we report here on three tide gauges deployed by the Bedford Institute and in place for over one year. Subsequent harmonic analyses of tidal constituents show that the tides are mainly semi-diurnal in character with ranges up to about 7 m. Tidal currents measured in Nares Strait reached velocities up to 50 cm/s.

Cotidal charts constructed using all available data show that the tides enter Baffin Bay from the south through Davis Strait and progress along the eastern shore and around the bay counter clockwise, propagating westward into Lancaster Sound. In Nares Strait, the tides enter from both the south through Smith sound and from the Lincoln Sea to the north to form a nearly standing wave in Kane Basin.

RÉSUMÉ

Greisman, P., Grant, S., Blaskovitch, A., and van Hardenberg, B. 1986. Tidal propagation measurements in Baffin Bay, Lancaster Sound and Nares Strait. Can. Contract. Rep. Hydrogr. Ocean Sci. No. 25: viii + 548 p.

Nous avons déployé vingt-neuf marégraphes et cinq courantomètres dans la glace de mer le long de la côte est de l'île Baffin ainsi que dans le détroit de Lancaster et le détroit de Nares vers la fin de février pour ensuite les recueillir vers la fin d'avril 1985. La plupart des instruments ont recueilli des données de bonne qualité. De plus, nous faisons état de données enregistrées par trois marégraphes déployés pendant plus d'une année par l'Institut de Bedford. Les analyses harmoniques des composantes de la marée révèlent qu'il s'agit surtout de marées semi-diurnes dont la hauteur peut atteindre jusqu'à 7 m. Les courants de marée mesurés dans le détroit de Nares atteignent des vitesses de jusqu'à 50 cm/s.

Les cartes cotidales établies à partir de toutes les données disponibles indiquent que les marées pénètrent la baie de Baffin par le détroit de Davis, au sud, et longent la côte est, suivant le pourtour de la baie (en sens inverse des aiguilles d'une montre) pour ensuite se propager vers l'ouest dans le détroit de Lancaster. Les marées pénètrent le détroit de Nares à la fois du sud par le détroit de Smith et du nord par la mer de Lincoln pour ainsi former une onde pratiquement stationnaire dans le bassin Kane.

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1.0 FIELD PROGRAM

1.1 DEPLOYMENT

We deployed twenty-nine (29) tide gauges and five (5) current meters along the west coast of Baffin Island, in Lancaster Sound and in Nares Strait during late February and early March 1985 at the sites shown in Figures 1, 2 and 3 and listed in Tables 1 and 2. A De Haviland Twin Otter aircraft equipped with skis and an Omega VLF navigation system was chartered from Bradley Air Service of Carp, Ontario for transport of equipment and personnel to the designated sites.

Prior to deployment, each instrument was checked for proper operation, particularly the timing of the sampling. Previously designated sites were located utilizing the Omega navigation system and visual bearings. In most cases the designated sites were accessible to a ski-equipped aircraft. However, where the sites were overlaid by unstable ice the deployment was either abandoned or the site was relocated. After landing and establishing precise position, a hole was drilled through the ice with a power auger. The depth was then established with a lead line and the tide gauge mooring gently lowered and laid on the bottom. Figure 4 shows the mooring used for deployment of the tide gauges.

In the case of the current meter moorings, after the site was located and a landing executed, the aircraft was taxied so that it headed due north according to its gyro compass. The hole was then augered through the ice behind the aircraft so that the aircraft could be used as a sight along which to orient the current meter mooring. The current meter moorings were assembled on the ice and lowered to the prescribed depth. The orientation notch in the upper end of the pipe was then used to sight along the aircraft. The hole in the ice was generally backfilled with snow to facilitate subsequent removal of the mooring. Figure 5 shows the mooring used for the deployment of the current meters.

Table 1 Tide Gauge Deployment Locations

Site #	Name	Tide Gauge #	Latitude (N)	Longitude (W)	Depth (m)
1	Brevoort Island	333	63°15.9'	64°08.8'	30
2	Lemieuk Island	332	64 36.6	65 09.9	25
4	Anjijak Island	343	65 35.5	62 16.8	30
5	Kingmiksok	380	65 31.2	67 04.7	42
6	Pangnirtung Fiord	346	66 05.0	66 55.5	35
7	Cape Dyer	347	66 36.4	60 19.0	17.5
8	Padloping Island	340	67 11.8	62 25.7	25
9	Broughton Island	826	67 32.4	63 44.8	70
10	Cape Hooper	224	68 25.0	66 36.4	33
11	Aulitiving Island	345	69 31.1	67 08.5	18.5
12	Cape Christian	342	70 30.9	68 12.7	35
13	Scott Inlet	335	71 15.4	71 07.8	25
14	Cape Hunter	990	71 40.2	72 19.0	19.5
15	Nova Zembla Island	334	72 12.9	74 38.7	23.5
17	Cape Liverpool	181	73 38.4	77 56.3	14
18	Canada Point	830	73 16.3	80 45.0	35
20	Sargent Point	372	73 51.9	86 07.4	19.5
21	Cape Ricketts	991	74 38.0	91 18.5	32.5
22	Maxwell Bay	827	74 38.8	88 51.2	26.5
23	Burnett Inlet	336	74 29.4	86 08.8	34
24	Dundas Harbour	183	74 31.35	82 28.5	36.5
27	Marshall Bay	695	78 55.8	69 25.0	56
28	Alexandra Fiord	819	78 55.2	75 31.0	27
29	Scoresby Bay	549	79 54.7	71 19.0	22
30	Nygard Bay	547	80 01.8	65 28.3	45
31	Cape Field	316	81 06.7	64 12.5	25
32	Cape Defosse	548	81 13.4	65 47.5	18
33	Cape Murchison	191	81 46.8	64.13.0	17
34	Cape Brevoort	595	81 58.5	60 14.0	46.5

Table 2 Current Meter Deployment Locations

Site #	Name	Instrument #	Latitude (N)	Longitude (W)	Depth (m)
CM1	South Kennedy Channel	6198	79°54.3'	69°28.4'	6
CM2	East Kennedy Channel	6184	81 07.6	65 25.9	6
CM3	Centre Kennedy Channel	6185	81 11.0	64 49.8	6
CM4	West Kennedy Channel	6186	81 12.0	65 27.8	6
CM5	Robeson Channel	6137	81 56.6	61 58.9	6

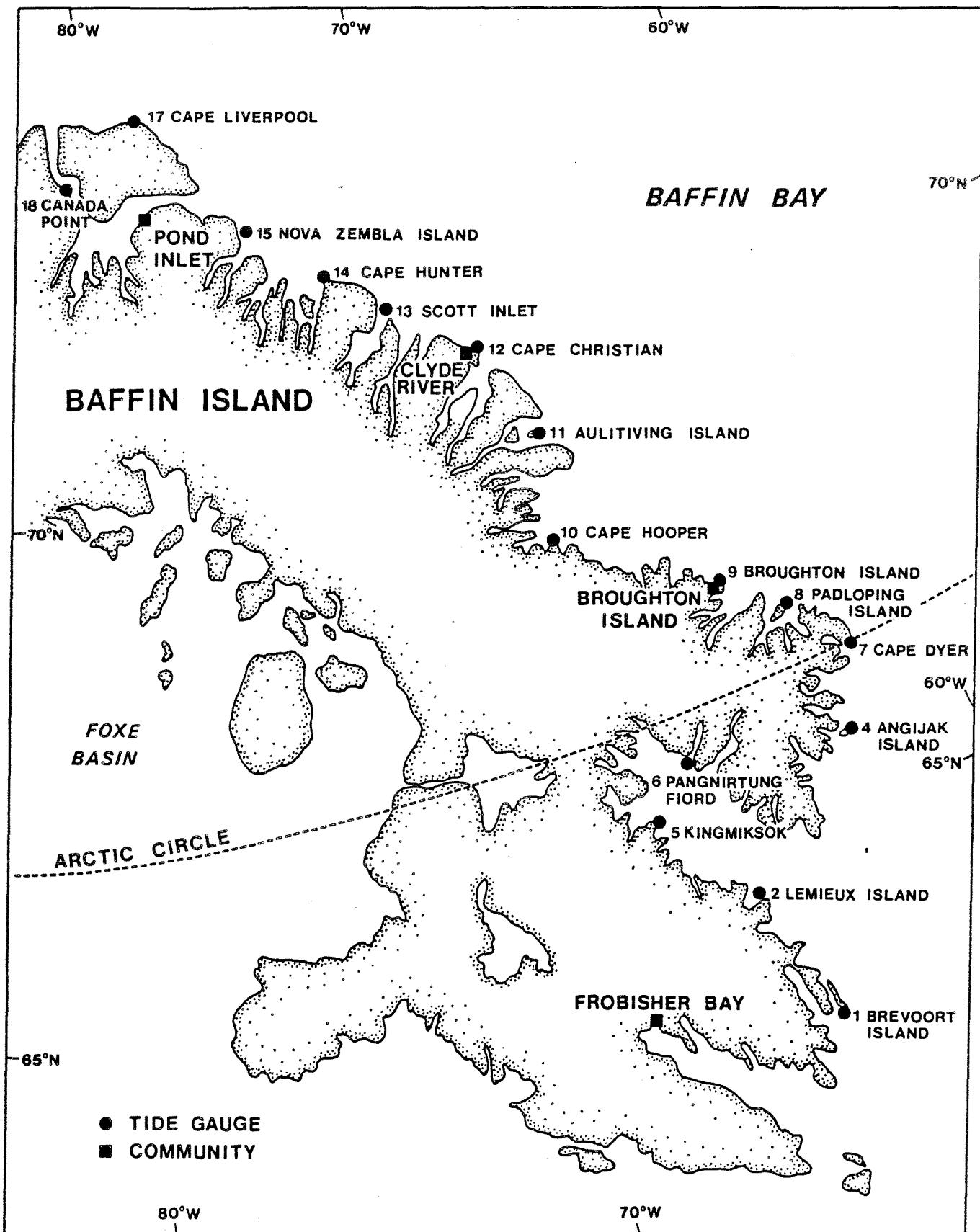


Figure 1. Tide gauge sites - southern part.

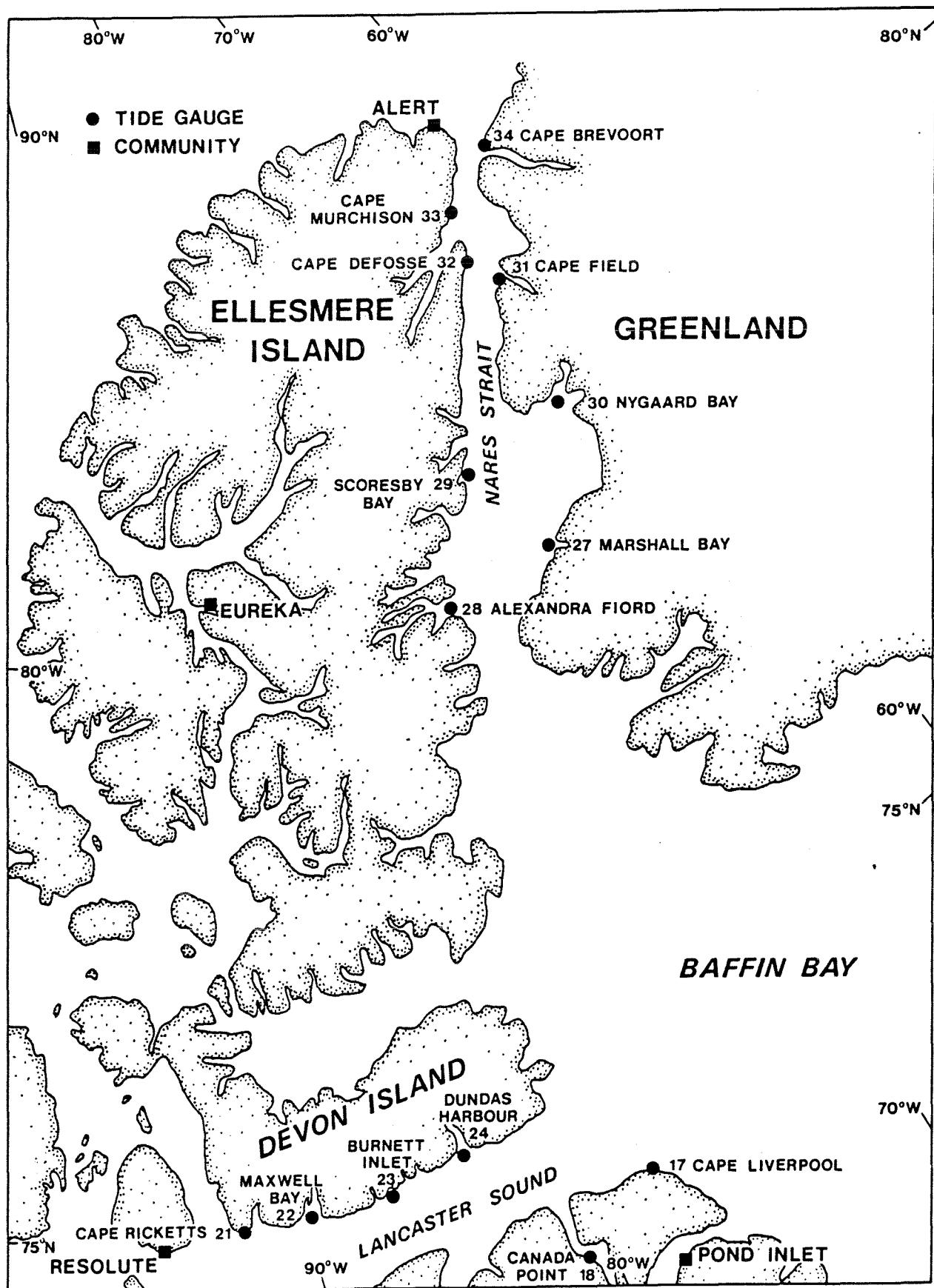


Figure 2. Tide gauge sites - northern part.

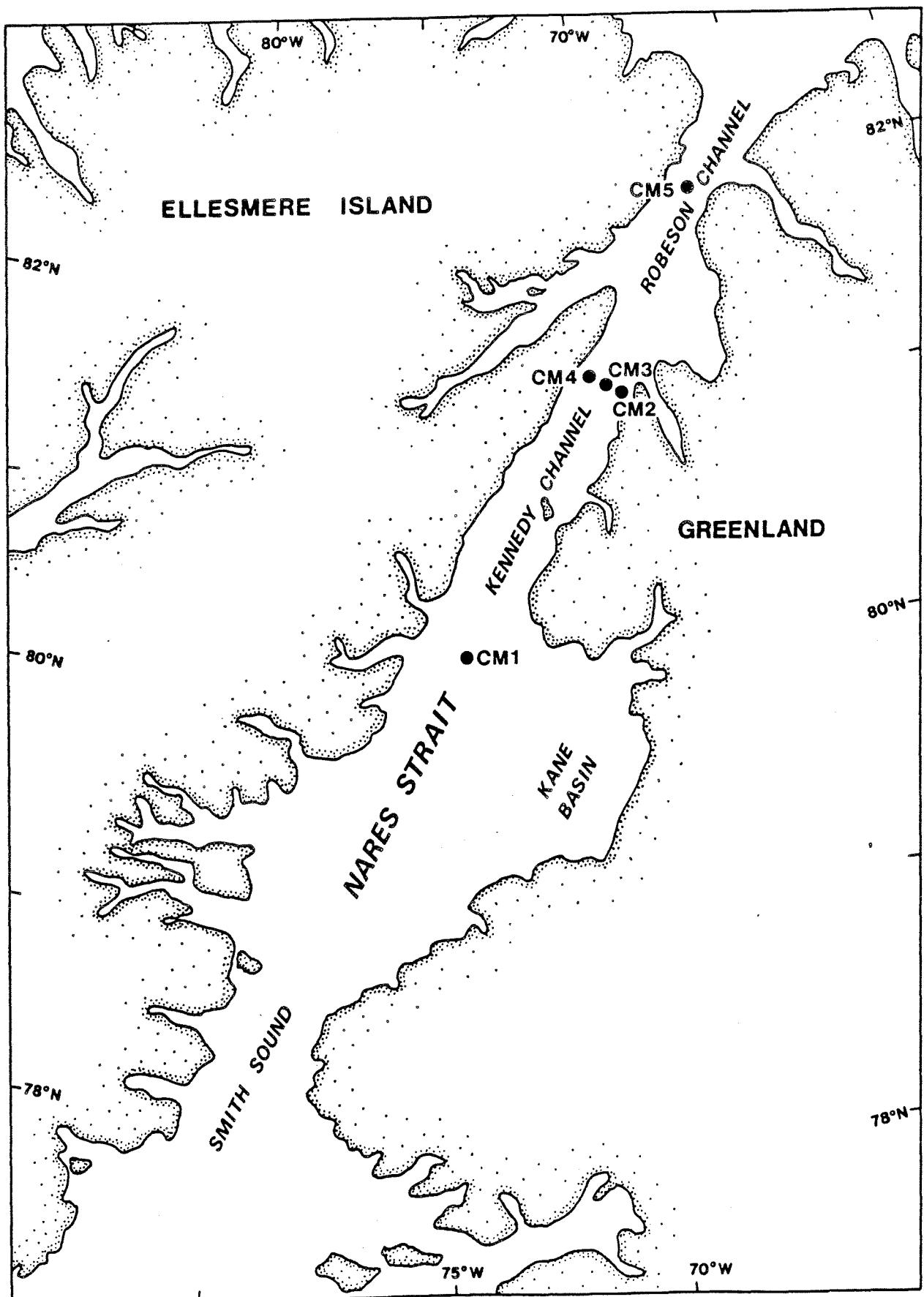


Figure 3. Current meter sites.

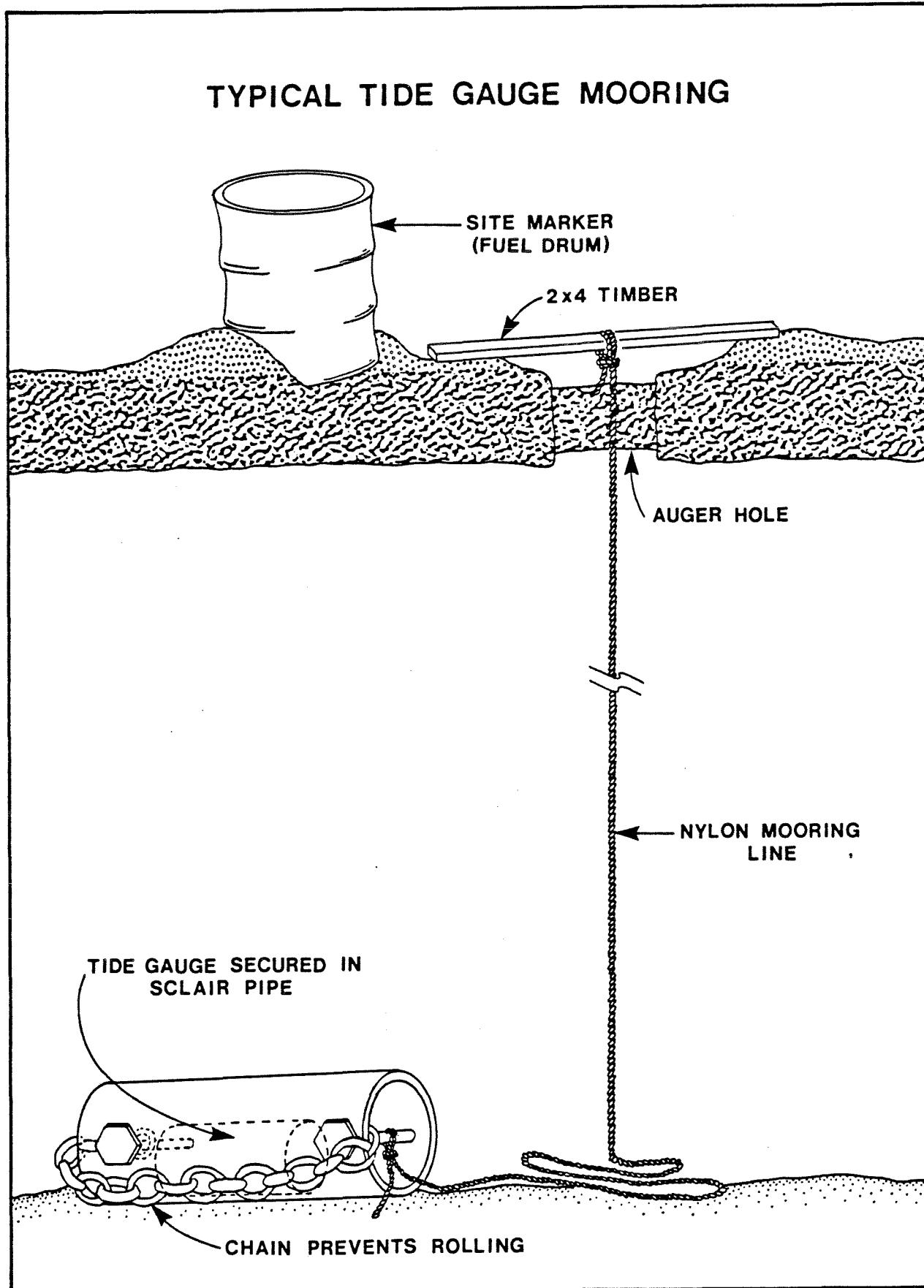


Figure 4. Typical tide gauge mooring.

1.2 BENCHMARKS

Attempts during deployment to establish benchmarks onshore were greatly hampered by ice ridging and pile-up as well as severe weather. In addition, the sites were often far from shore, visibility was poor and no suitable cracks in the rocks could be found into which to drive a stake to serve as a benchmark. No leveling was undertaken upon recovery in order to save time and aircraft charter costs.

1.3 RECOVERY

Instruments were recovered in late April 1985. Tide gauges were recovered by augering a hole next to the deployment hole and lowering a specially designed hooking apparatus. This device incorporates an articulated shaft of 2 segments with a float on its lower end. When deployed, the lower segment is held horizontal by the float while the upper segment is rotated to snag the mooring line. The mooring line is then drawn up through the recovery hole and the tide gauge hauled to the surface.

Upon recovery initial inspection by field personnel indicated that all recovered tide gauges appeared to have functioned properly, with the exception of gauge #347 off Cape Dyer (site 7) which was found flooded. (This fault was later determined to be caused by an improperly machined pressure case.) Tide gauge #990 off Cape Hunter (site 14) had been tampered with. It was found suspended just below the ice with the majority of the mooring line removed. Two tide gauges were not recovered: gauge #827 in Maxwell Bay (site 22) and gauge #372 off Sargent Point (site 20). The first of these gauges could not be hauled to the surface; the line parted under substantial strain. We believe that this mishap was due to the gauge being frozen onto the bottom. We further speculate that frazil ice accretion onto and around the gauge (the formation of "anchor ice") was the agency by which the gauge was frozen to the bottom. The second of the gauges which was not recovered could not be re-located. It was deployed at a site where we judged the ice would be stable for several months. The great change in ice topography observed between deployment and attempted recovery indicated that the ice off Sargeant Point was in fact not stable.

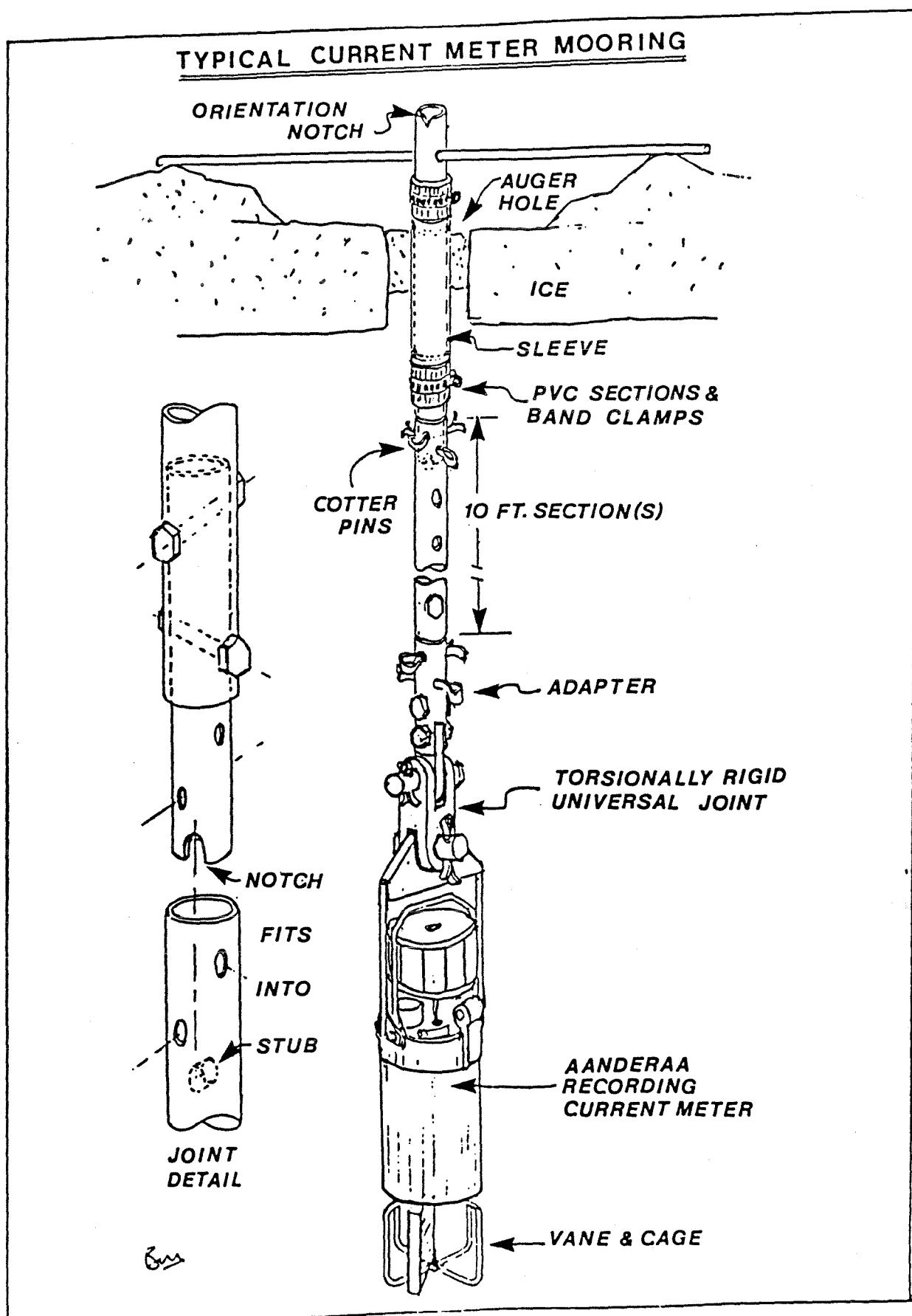


Figure 5. Typical current meter mooring.

Two current meters were lost: the line on meter #6184 at site CM2 parted during recovery (no cause has been established) and meter #6198 at site CM1 could not be re-located.

Upon recovery all instruments were checked for proper operation. Particular care was given to checking the sampling time against a time standard in order to provide information for possible drift corrections.

A detailed narrative of field activities is provided in the Field Operations Reports (McCullough and van Hardenberg, 1985; McCullough, 1985). Copies of the instrument deployment sheets are included in these reports.

1.4 ADDITIONAL TIDAL HEIGHT DATA FROM BIO

As this report was being prepared, additional new tidal height data became available with the recovery of three tide gauges in Baffin Bay. Although these data were collected in conjunction with a separate program, we report on them here.

The first of the gauges (#341) was an element of an Atlantic Oceanographic Laboratory (AOL) current meter mooring. The mooring deployment was accomplished from the CSS HUDSON in September 1983 while an unsuccessful recovery was attempted from the CSS BAFFIN during October 1984. In September 1985 the submersible PISCES IV operating in concert with its tending vessel PANDORA II succeeded in recovering the mooring. For this operation, PISCES had been fitted with special hydraulic shears designed and built in the Metrology Division of AOC. After the mooring had been located acoustically, it was cut loose and recovered at the surface.

The remaining two gauges (#436 and #502) were deployed from CSS BAFFIN in October 1984. Simple deep water tide gauge moorings utilizing railcar wheel anchors, digibridge flotation packages and EG&G acoustic releases were employed. Both instruments were recovered from CSS BAFFIN in October 1985.

Table 3 Additional Tide Gauge Locations and Depths

Site #	Name	Tide Gauge #	Latitude (N)	Longitude (W)	Depth (m)
A	Centre Baffin Bay	341	71°45.8'	71°40.8	205
B	Davis Strait	502	68 12.7	61 21.2	1711
C	Northern Baffin Bay	436	75 24.8	74 33.4	470

Table 3 lists the location and depth of the additional gauges deployed by BIO.

2.0 TIDE GAUGE DATA REDUCTION AND ANALYSIS

2.1 DATA RECOVERY

Acceptable time series of pressure were obtained from all recovered gauges except gauge #347 (site 7) which flooded and gauge #595 (site 34) from which the data tape could not be read. Temperature time series were obtained from 20 of the 26 gauges recovered intact. Of the six gauges for which no temperature data were recovered, one was not equipped with a temperature channel (#547), for two, no temperature calibrations were available (#'s 191 and 380) and two yielded very noisy data of extremely poor quality (#'s 224 and 332).

One gauge (#340) experienced an encoder malfunction causing loss of data after 17 days deployment.

Of the gauges recovered, only four had clock errors of more than one minute. Only one of these yielded a number of data points different from that expected (#547, see below). Table 4 lists the timing errors measured after recovery against a time standard.

2.2 DATA PROCESSING

Data tapes were translated and the data transformed to engineering units using a third order calibration equation. Data listings of the periods between instrument start-up and instrument immersion and between instrument recovery and instrument shut down were then produced. The number of records between start up and deployment, deployment and recovery and recovery and shut down were then checked against the field notes. Only the two time series which had timing errors of more than \pm 2 minutes were subjected to correcting procedures.

Tide gauge #333 (site 1) was fast by 10 minutes and 23 seconds over the period of deployment. In order to correct for this error the sampling

Table 4 Measured Timing Errors

<u>Site #</u>	<u>Gauge #</u>	<u>Timing Error</u>
1	333	10 m 23 s fast
2	332	9 s slow
4	343	25 s slow
5	380	7 s slow
6	346	20 s slow
8	340	20 s slow
9	826	39 s slow
10	224	1 m 47 s slow
11	345	22 s slow
12	342	21 s slow
13	335	38 s slow
14	990	26 s slow
15	334	33 s slow
17	181	1 m 42 s slow
18	830	35 s slow
21	991	34 s slow
23	336	13 s fast
24	183	13 s fast
27	695	27 s fast
28	819	22 s fast
29	549	35 s slow
30	547	3 m 14 s fast*
31	316	9 s fast
32	548	26 s fast
33	191	27 s slow
34	595	exact, but tape unreadable

*(See section 2.2)

interval was reduced from 30.00 minutes to 29.99624 minutes. A cubic spline interpolation was then applied to the time series and digitized on the hour to yield the hourly time series required for tidal analysis.

Approximately five hours of additional data appeared to be present in the time series from gauge #547 (site 30). Time series of pressures from this gauge and from gauges nearby at sites 27 and 29 were plotted on a greatly expanded horizontal scale. We assumed that the tide at these three locations would not differ by more than a few degrees (or several minutes) in phase.

The three time series are shown plotted in Figure 6. At approximately 1800 11 March 1985 the pressures at sites 30 and 29 were very nearly in phase. During 12 March 1985 the clock in gauge #547 at site 30 experienced a transient malfunction (obvious from the distortion of the tide curve) in which the sampling interval was substantially reduced. After 12 March 1985 the clock appears to have reverted to its proper 30 minute interval. An apparent time shift of 4 hours 53 minutes (± 5 minutes) resulted from this malfunction. The faulty time series was shifted and a cubic spline interpolation applied to yield hourly pressure data. We believe that our time corrections to this time series are accurate to about ± 5 minutes or $\pm 2.5^\circ$ in phase of the M_2 constituent. The accuracy of the amplitudes obtained from the harmonic analysis are virtually unaffected by the timing problem.

Upon recovery tide gauge #990 (site 14) was found suspended just below the ice. Local residents apparently removed most of the mooring recovery line but left the instrument. Useful data were, however, obtained for the 26 day period prior to tampering.

Table 5 lists the range of each of the tide gauges, the lengths of the records and remarks.

TIMING ADJUSTMENT FOR STN 30

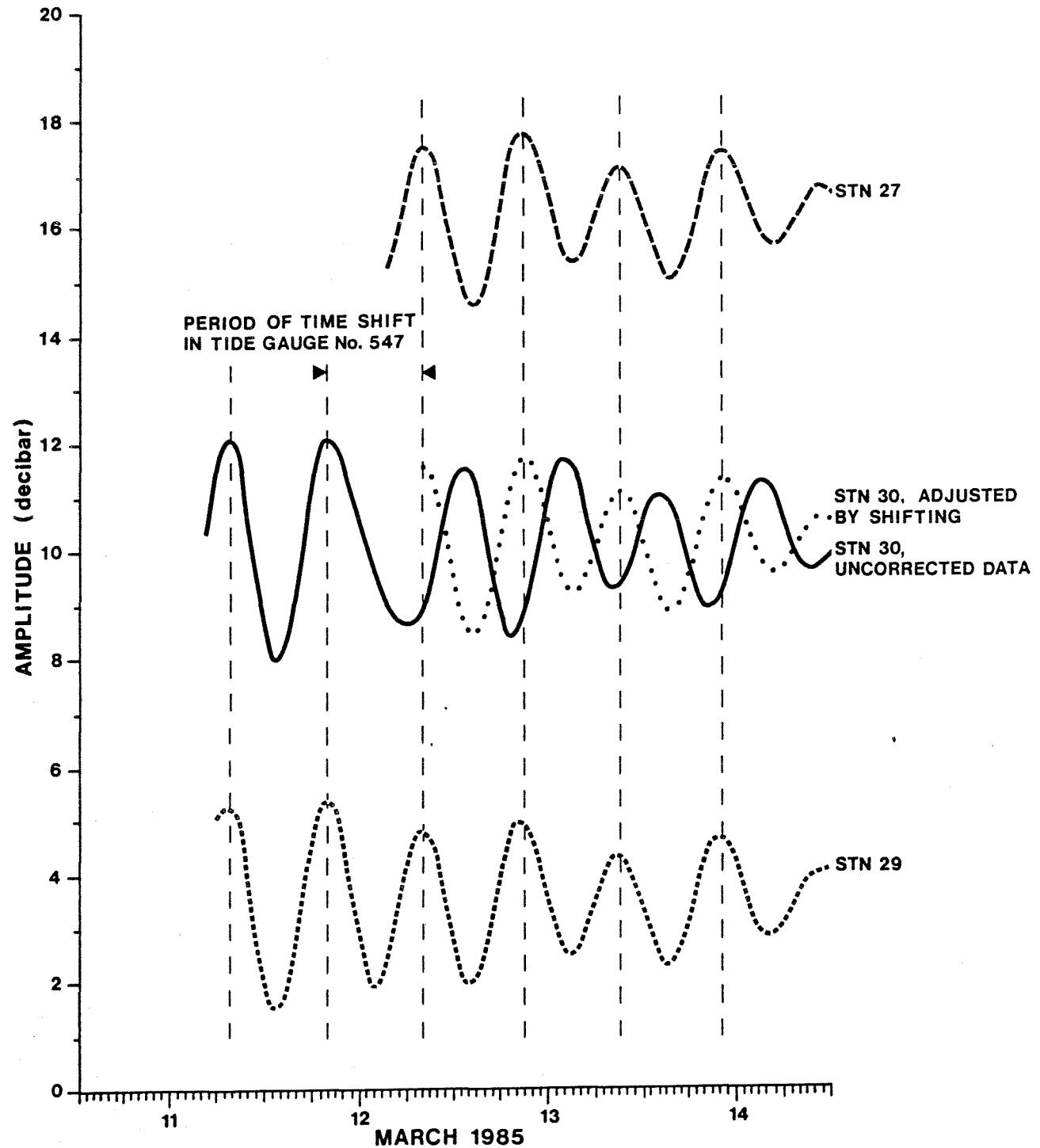


Figure 6. Timing adjustment for gauge no. 547 at station 30.

Table 5 Tide Gauge Records And Remarks

Site #	Tide Gauge #	Instr. Range (m)	First Good Record (GMT)	Last Good Record (GMT)	Record Length (Days)	
1	333	620	1800 25 Feb 85	1300 23 Apr 85	57	
2	332	620	1900 25 Feb 85	1800 22 Apr 85	56	
4	343	270	1700 25 Apr 85	1400 25 Apr 85	55	
5	380	270	2100 25 Feb 85	1600 22 Apr 85	56	
6	346	270	2000 28 Feb 85	1700 22 Apr 85	53	
7	347	270	* pressure case failure - gauge flooded			
8	340	270	2000 1 Mar 85	1500 18 Mar 85	17	
9	826	270	2200 28 Feb 85	1700 25 Apr 85	56	
10	224	270	1600 2 Mar 85	1800 25 Apr 85	54	
11	345	270	1800 2 Mar 85	1700 20 Apr 85	49	
12	342	270	1900 2 Mar 85	2000 25 Apr 85	54	
13	335	270	1600 4 Mar 85	1300 26 Apr 85	53	
14	990	270	1700 4 Mar 85	2400 30 Mar 85	26	
15	334	270	1800 4 Mar 85	1500 26 Apr 85	53	
17	181	270	1800 5 Mar 85	1700 26 Apr 85	52	
18	830	270	1900 5 Mar 85	1800 26 Apr 85	52	
20	372	270	* gauge could not be located for recovery			
21	991	270	1800 7 Mar 85	2300 26 Apr 85	50	
22	827	270	* gauge lost, line broke during recovery			
23	336	270	1900 6 Mar 85	2100 26 Apr 85	51	
24	183	270	1800 6 Mar 85	1900 26 Apr 85	51	
27	695	270	1600 12 Mar 85	1800 27 Apr 85	46	
28	819	130	1400 12 Mar 85	1700 27 Apr 85	46	
29	549	130	1800 11 Mar 85	1600 29 Apr 85	49	
30	547	130	2000 12 Mar 85	1800 27 Apr 85	46	
31	316	130	2000 10 Mar 85	2000 27 Apr 85	48	
32	548	130	1600 10 Mar 85	1800 28 Apr 85	49	
33	191	270	2000 10 Mar 85	2200 28 Apr 85	49	
34	595	130	* instrument malfunction, data cannot be translated.			

2.3 TIDAL HEIGHT ANALYSIS

To produce time series plots, pressures were converted from psi to decibars ($1\text{psi} = .689476 \text{ db}$). A constant atmospheric pressure of 10.1352 decibars was subtracted from the time series and pressure was converted to metres of water assuming a mean water density of 1026.5 kg m^{-3} . Spikes were removed as necessary. The tidal constituents for each station were computed according to the methods of Godin (1972) and Foreman (1977). Only measurements on the hour were used in these analyses; the measurements on the half hour were discarded so that no filtering was required. Tides were then hindcast for the periods of deployment, reconverted to pressures and the hindcast tidal heights subtracted from the basic time series. The residual time series plots showed that the hindcasts reproduced the data well at all sites.

The results of the harmonic analysis for each gauge are presented in tabular form in Appendix 1. The mean of the time series (Z_0) was adjusted such that the lowest water level measured is designated chart datum or zero elevation. The phase G is the Greenwich phase, and corrections for nodal modulation are included.

Where the record length was insufficient to resolve all tidal constituents of interest, the following relationships were used for inference:

$$\text{Amplitude } K_2 = 0.27 \text{ Amplitude } S_2$$

$$\text{Amplitude } N_2 = 0.20 \text{ Amplitude } M_2$$

$$\text{Amplitude } P_1 = 0.33 \text{ Amplitude } K_1$$

$$\text{Phase } K_2 = \text{Phase } S_2$$

$$\text{Phase } N_2 = \text{Phase } M_2 - 23 \text{ degrees}$$

$$\text{Phase } P_1 = \text{Phase } K_1.$$

An overall impression of the tides in the study region can be formed by inspection of Table 6 where form numbers and estimated maximum ranges are presented.

Table 6 Form Number And Estimated Maximum Range

Site #	Form Number	Estimated
		Maximum Range (m)
1	0.10	5.47
2	0.05	5.69
4	0.04	3.79
5	0.05	6.28
6	0.05	6.36
8	0.44	1.66
9	0.59	1.39
10	1.02	1.18
11	1.18	1.11
12	0.97	0.57
13	0.78	1.57
14	0.66	1.69
15	0.60	1.92
17	0.40	2.05
18	0.38	2.30
21	0.46	2.57
23	0.40	2.53
24	0.42	2.65
27	0.22	4.77
28	0.21	4.58
29	0.17	4.55
30	0.21	4.89
31	0.18	2.62
32	0.13	2.63
33	0.14	1.92

The form number is the ratio of the sum of the two largest diurnal constituents to the sum of the two largest semi-diurnal constituents:

$$F = \frac{(O_1 + K_1)}{(M_2 + S_2)}.$$

For form numbers less than 0.25 the character of the tide is semi-diurnal with two high waters and two low waters daily of approximately the same height. For form numbers between 0.25 and 1.5 the tide is mixed, mainly semi-diurnal. There are two high waters and two low waters daily which show inequalities in height and spacing. In Table 6 the form number reaches a maximum value of 1.18 at site 11 which indicates that the diurnal constituents are larger than the semi-diurnal constituents.

The maximum tidal ranges shown in Table 6 have been computed as twice the sum of the M_2 , S_2 , K_1 , and O_1 constituents. The tidal range is at a minimum at site 12. This fact in conjunction with the form number maximum at site 11 is indicative of a semi-diurnal amphidromic point in the region offshore sites 11 and 12.

2.4 TIDE GAUGE TIME SERIES PLOTS

After all data were checked for quality, final times series plots were produced for the basic, de-tided and filtered data and are shown in Appendix 1. The filter employed was Godin's low pass filter; a third order running mean over 25 hours.

The resolution of the tide gauges is 0.01% of full scale so that the "residual" present in the de-tided records shown in Appendix 1 varies with the range of the instruments. Instrument ranges are listed in Table 5. Their resolutions vary between 1.3 and 6.2 cm. Those instruments with the worst resolutions were intentionally deployed in that area where the largest tidal excursions were foreseen.

2.5 PRESENTATION OF TIDAL HEIGHT ANALYSES AND DATA

For the 25 gauges from which good data were obtained Appendix 1 displays for each instrument:

- a cover sheet with:
 - site number and name;
 - geographical position;
 - tide gauge number and type;
 - Greenwich times of deployment and recovery;
 - the sampling interval;
 - the number of records on the tape from time of switch on to shut down;
 - statistics of the raw, detided and filtered pressure records; remarks on data quality and despiking.
(Note that in a "normal" data processing sequence with a clock drift of less than two minutes over the deployment period no timing or phase corrections were made).
- a listing of the tidal constituents determined by harmonic analysis, with Z_0 adjusted by setting the lowest observed tide level in the basic data set equal to zero. Amplitudes are in metres and phases are relative to Greenwich.
- time series plots of despiked pressure and temperature data
- time series plots of basic, detided and low passed filtered pressure records.

3.0 CURRENT METER DATA REDUCTION AND ANALYSIS

Of the three current meters recovered, only one (instrument #6186) had a useable direction record. Instrument #6185 failed to record direction and instrument #6137 was plagued by a non-rotating vane (perhaps fouled). Some information is, nevertheless available from all instruments.

All quality control techniques applied to the tide gauge data (see Section 2.2) were also applied to the current meter data. None of the current meter clocks drifted by more than 10 seconds during the period of deployment.

3.1 TIDAL STREAM ANALYSIS

In that direction data were available from only one instrument, tidal stream analysis was performed only on that record. The methods of Godin (1972) and Foreman (1978) were employed. First the U and V components were computed and then an A_3^3 filter applied to convert the 20 minute data to hourly data. The analysis automatically corrects for the filter applied. The results of the analysis are presented in tabular form showing the amplitudes of the semi-major and semi-minor axes of the tidal ellipses, the inclination (INC) of the northern semi-major axes counterclockwise from east, the Greenwich phase (G) of the current when it is in the direction of the northern semi-major axis and the Greenwich phases of the counter-clockwise (G+) and clockwise (G-) rotating vectors which comprise the tidal ellipses.

In addition to the tidal stream analysis, tidal ellipse plots of the four major constituents, a histogram and a progressive vector diagram were produced for meter #6186 (Kennedy Channel, West) and are shown in Appendix 2.

3.2 TIME SERIES PLOTS

Time series plots of speed, direction and temperature (where available) were produced for the current meter data collected at the centre of Kennedy Channel and in Robeson Channel and are shown in Appendix 2. For the complete record obtained at Kennedy Channel-West, time series plots of the basic eastward and northward components of the velocity and the detided and filtered components were produced. Considerable energy remains in the data after the tides are eliminated.

3.3 AUTO SPECTRA

Auto spectra were computed for the detided U and V velocity components from the Kennedy Channel West instrument. Since tidal stream analyses could not be performed on the current meter data lacking direction information, we could not compute detided series of any sort. Auto spectra were run on the complete speed records from the two instruments lacking direction information. These spectra tend to exhibit peaks at twice the tidal frequencies since there exist two peaks in current speed for every tidal cycle.

3.4 PRESENTATION OF CURRENT DATA

For the 3 instruments which were recovered Appendix 2 displays for each instrument.

- a cover sheet with:
 - site number and name;
 - geographical position;
 - tide gauge number and type;
 - Greenwich times of deployment and recovery;
 - the sampling interval;
 - The number of records on the tape from the time of switch on to shut down;
 - statistics of the raw, predicted, residual and filtered data (or for the speed where directional data was absent);
 - remarks on the data quality

- a listing of the tidal stream constituents. Amplitudes are in cms^{-1} , inclination is of the semi major axis anti-clockwise east and G is the Greenwich phase.
- plots of the four major tidal ellipses
- a speed direction histogram
- a progressive vector diagram
- listings of the autospectral estimates
- plots of the auto spectra

4.0 RESULTS AND DISCUSSION

The tidal data collected during the course of this study in combination with the work of other investigators (most notably the Canadian Hydrographic Service) permit a rather detailed examination of tidal propagation in the eastern Canadian Arctic.

4.1 PREPARATION OF COTIDAL CHARTS

We prepared cotidal charts for the five major tidal constituents (M_2 , S_2 , N_2 , K_1 , O_1) for the Baffin Bay - Nares Strait, Lancaster Sound region encompassed in our 1985 survey. Detailed charts of the Nares Strait region were also prepared to clarify the somewhat complicated situation there. We incorporated in these charts tidal data from other sources (particularly on the Greenland shore) to supplement our data. Table 7 lists the additional sources and the codes used in Tables 8 through 13 to identify them. Table 8 displays the tidal constituent data used to supplement our 1985 data, and Figures 7 and 8 show the positions of the tidal stations used in the construction of the cotidal charts shown in Figures 9 through 18.

In the construction of the cotidal charts covering our study area we were both satisfied with the agreement among data sets collected over a 100 year period and struck by the number of tidal records collected since 1979. We therefore deemed it an appropriate time to compile tidal constituent data from the eastern Arctic and construct cotidal charts for the region west to Melville Island in Parry Channel.

Tables 9 through 13 list the phase and amplitude data for the M_2 and K_1 constituents which we compiled from all sources known to us. Perusal of the "YR" (year) column of the tables will indicate that about 70% of the tidal data from the region have been collected over the last 6 years (since 1979); many of the more recent data sets by the Canadian Hydrographic Service. In all, tidal constituent data from 139 stations were compiled and are presented by geographical region. All amplitudes are given in metres and phases are relative to Greenwich.

Table 7 Sources for Tidal Constituents of Tables 8 through 13

Code	Source
*	1985 (present measurements)
1	Fred Stephenson, CHS Sidney
2	Steve Grant, CHS Dartmouth
3	IOS/FSRG
4	CHS/BIO
5	CHS
6	CHS/ATL.REGION
7	CHS/BURLINGTON
8	ASL/PETROCAN
9	CHS/IOS
10	MEDS (P.A. Bolduc)

Table 8 Additional Tidal Constituent Data for Baffin Bay and Nares Strait

Location	Lat	Long	M ₂		S ₂		N ₂		K ₁		O ₁		Source	Year	Record
	(N)	(W)	A	G	A	G	A	G	A	G	A	G			Length (days)
Aningaq	67°55'	53°50'	0.78	351	.32	22	.16	331	.36	220	.09	163	10	1950	87
Egedesminde	68 43	52 53	0.67	351	.26	25	.12	323	.36	208	.11	182	10	--	29
Nunarssuaq	68 59	53 21	0.57	16	.27	55	.17	339	.35	228	.12	180	10	1950	87
Godhavn	69 15	53 33	0.60	11	.25	49	.17	4	.32	223	.13	186	10	1936	29
Kamarajuk Fiord	71 00	51 00	0.46	40	.17	62	.11	34	.37	199	.09	190	10	1930	60
Thule (Air Base)	76 32	68 54	0.80	95	.31	132	.16	74	.40	256	.12	210	10	--	29
North Star Bay	76 33	68 53	0.79	99	.30	135	.17	71	.38	250	.12	213	2	1983	24
Port Foulke	78 18	73 00	1.11	143	.46	177	.20	103	.32	274	.12	230	10	1860	58
Rensselaer	78 37	70 53	1.03	134	.46	174	.21	104	.26	275	.13	231	10	1853	116
Polaris Bay	81 36	61 40	0.55	118	.25	159	.11	92	.12	310	.05	272	10	1871	174
Cape Bryant	82 21	54 30	0.13	103	.07	146	.02	89	.10	336	.04	317	10	1909	29
King Edward Pt.	76 08	81 04	0.89	130	.35	170	.20	98	.36	260	.13	223	1	1983	30
Belcher Point	75 46	81 05	0.85	133	.33	173	.19	103	.34	257	.12	219	1	1983	31
Cape Cockburn	74 53	79 22	0.69	135	.26	181	.12	100	.30	264	.13	217	1	1983	61
Pim Island	78 40	74 10	1.17	114	.48	148	.26	99	.34	253	.13	199	2	1962	29
St. Patrick Bay	81 48	64 10	0.58	107	.24	148	.10	34	.08	295	.03	266	2	1975	35
Lincoln Bay	82 07	62 04	0.38	102	.18	147	.06	65	.07	307	.02	285	2	1975	35
Cape Sheridan	82 27	61 30	0.24	66	.12	114	.04	39	.05	359	.03	341	2	1909	29
Alert	82 30	62 19	0.21	65	.10	114	.03	44	.05	3	.04	343	2	1973	362

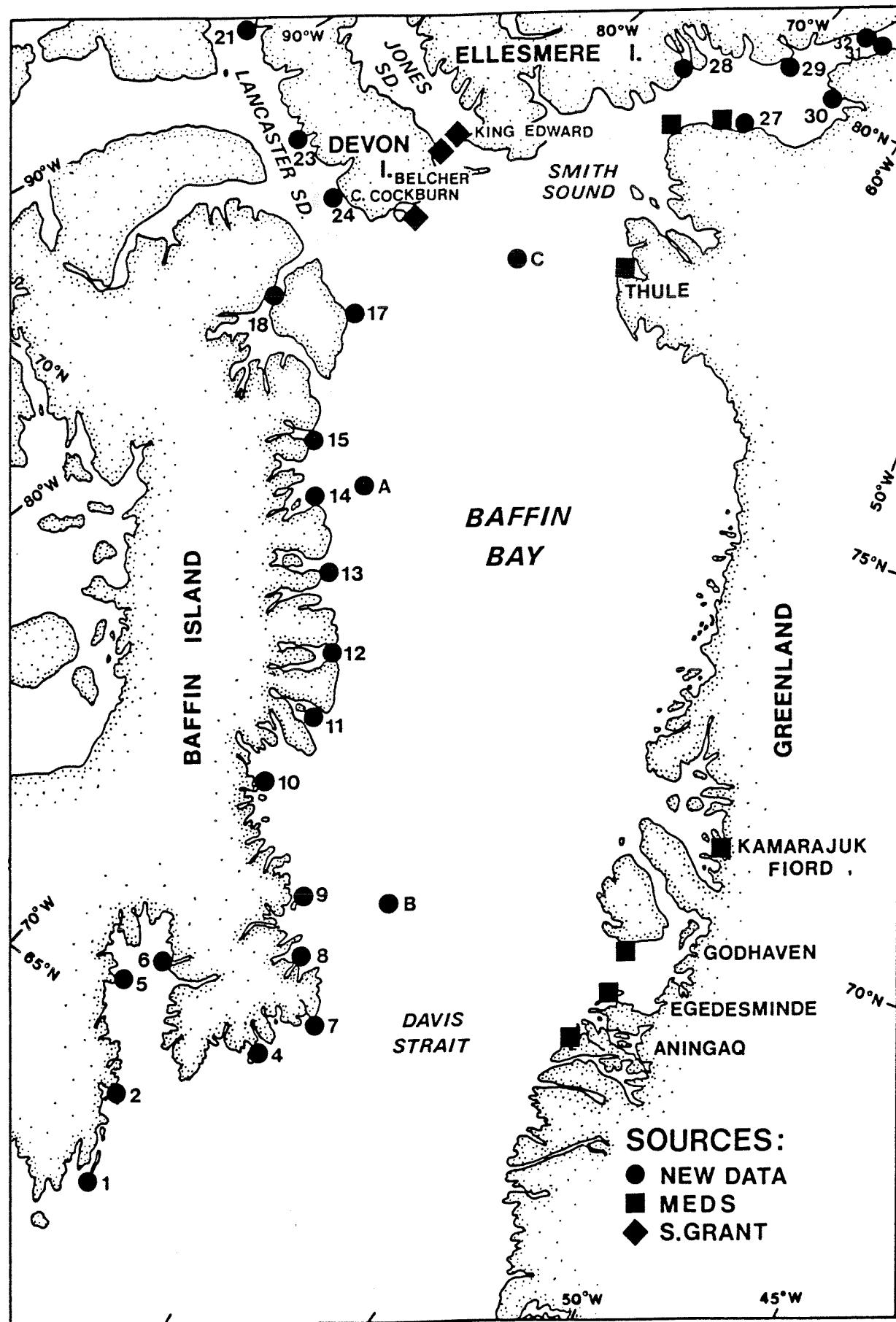


Figure 7. Tidal stations from which data were used to construct cotidal charts. Station symbols vary with the source.

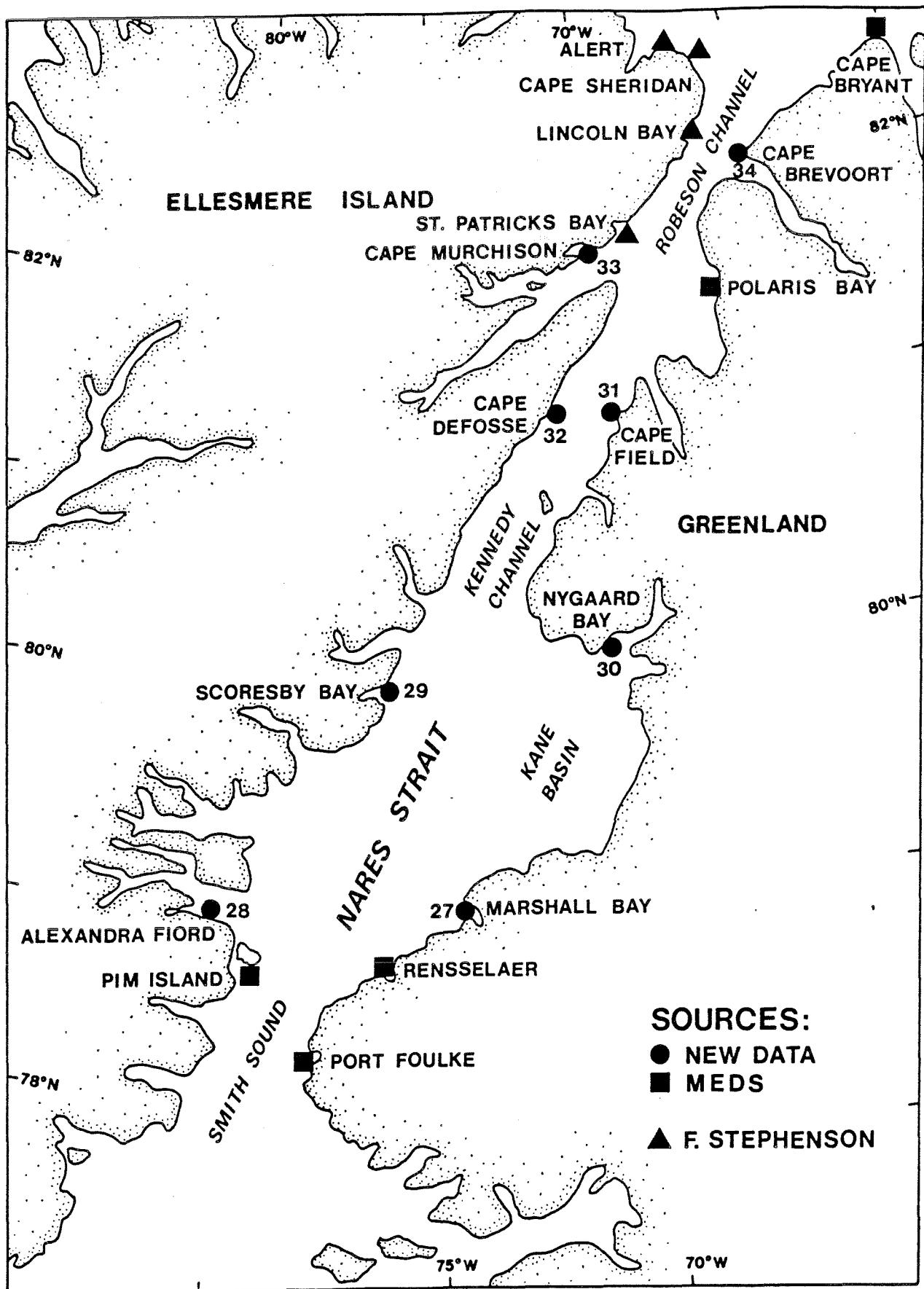


Figure 8. Tidal stations in Nares Strait.

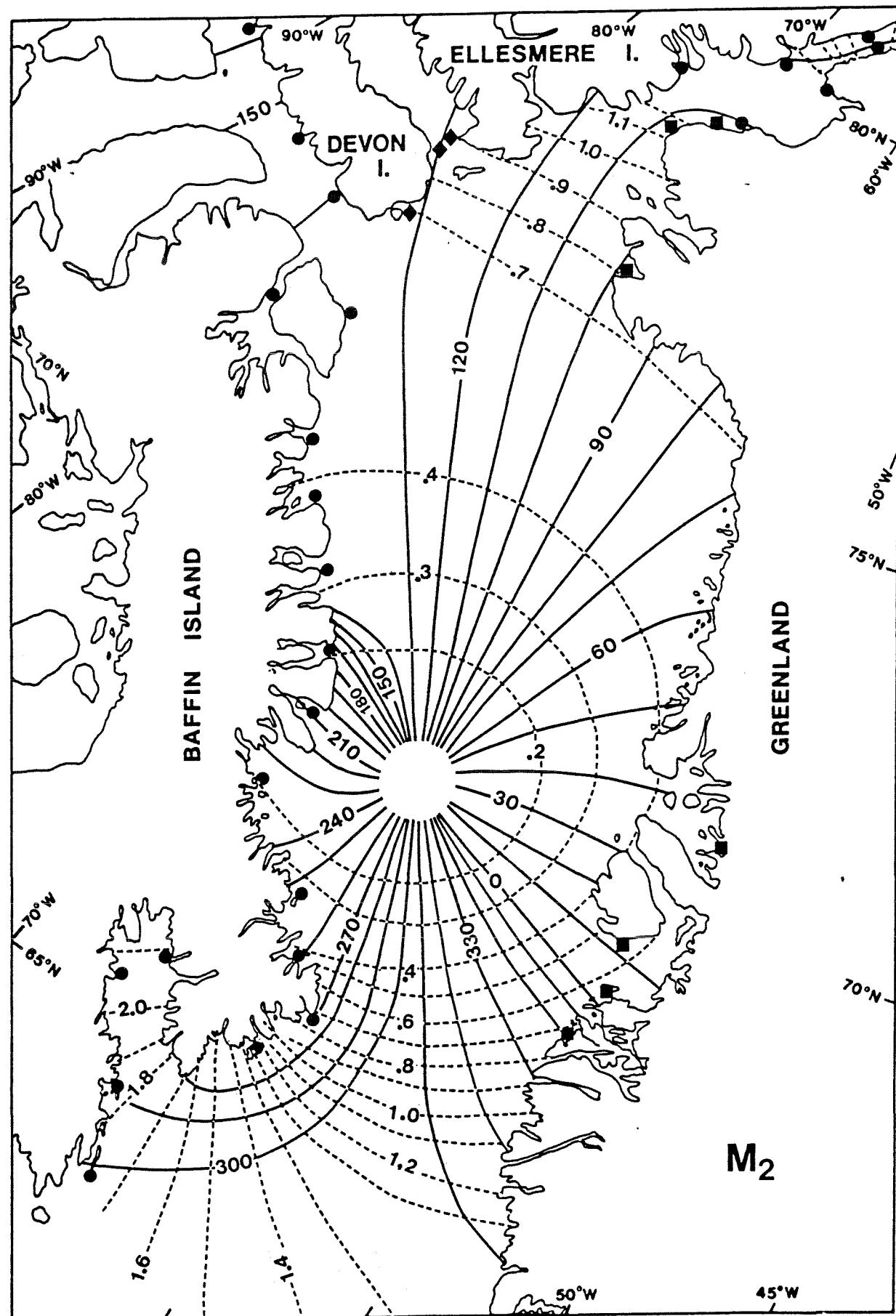


Figure 9. M_2 cotidal chart for Baffin Bay. Amplitudes are in metres and phases relative to Greenwich.

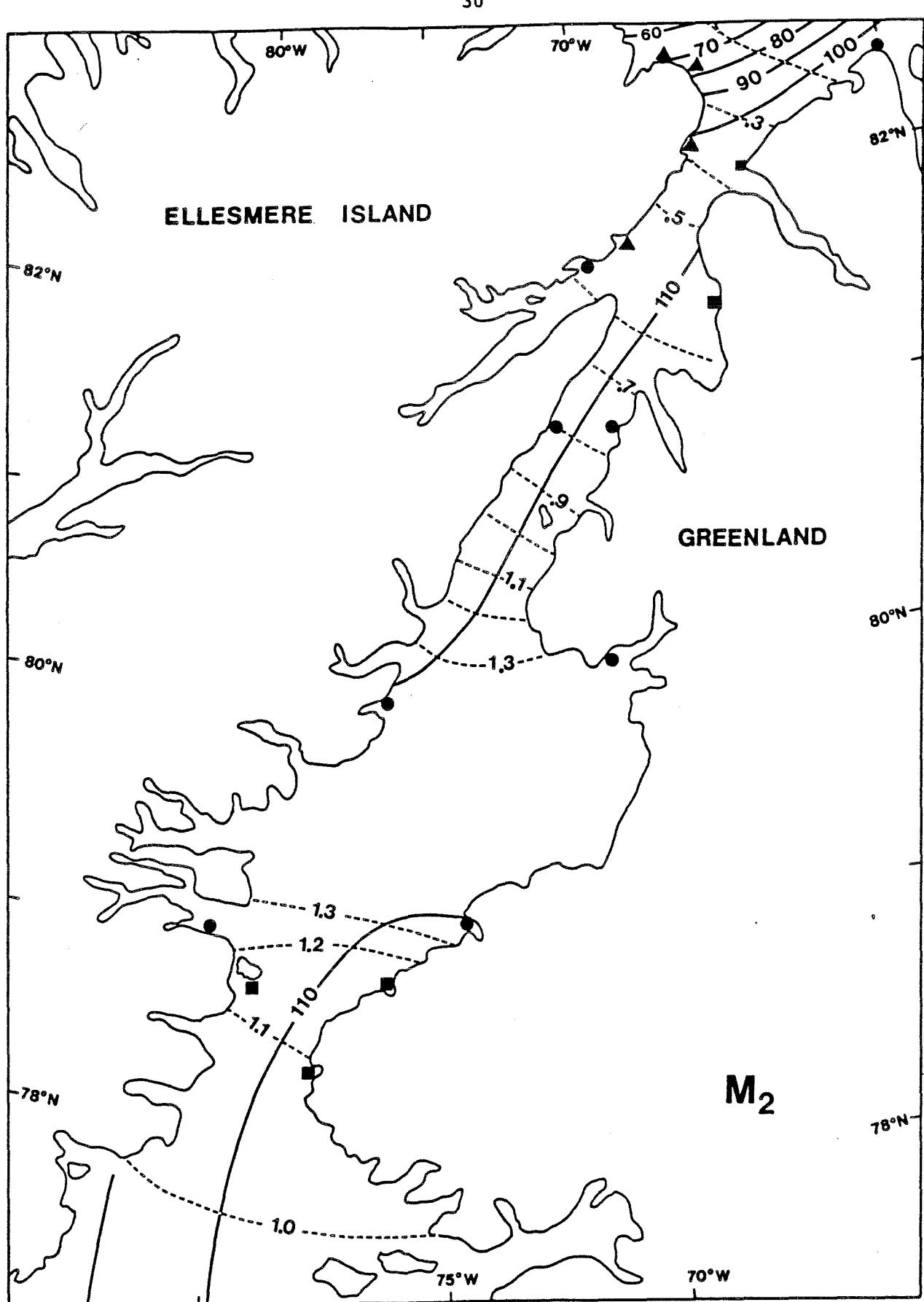


Figure 10. M_2 cotidal chart for Nares Strait. Amplitudes are in metres and phases relative to Greenwich.

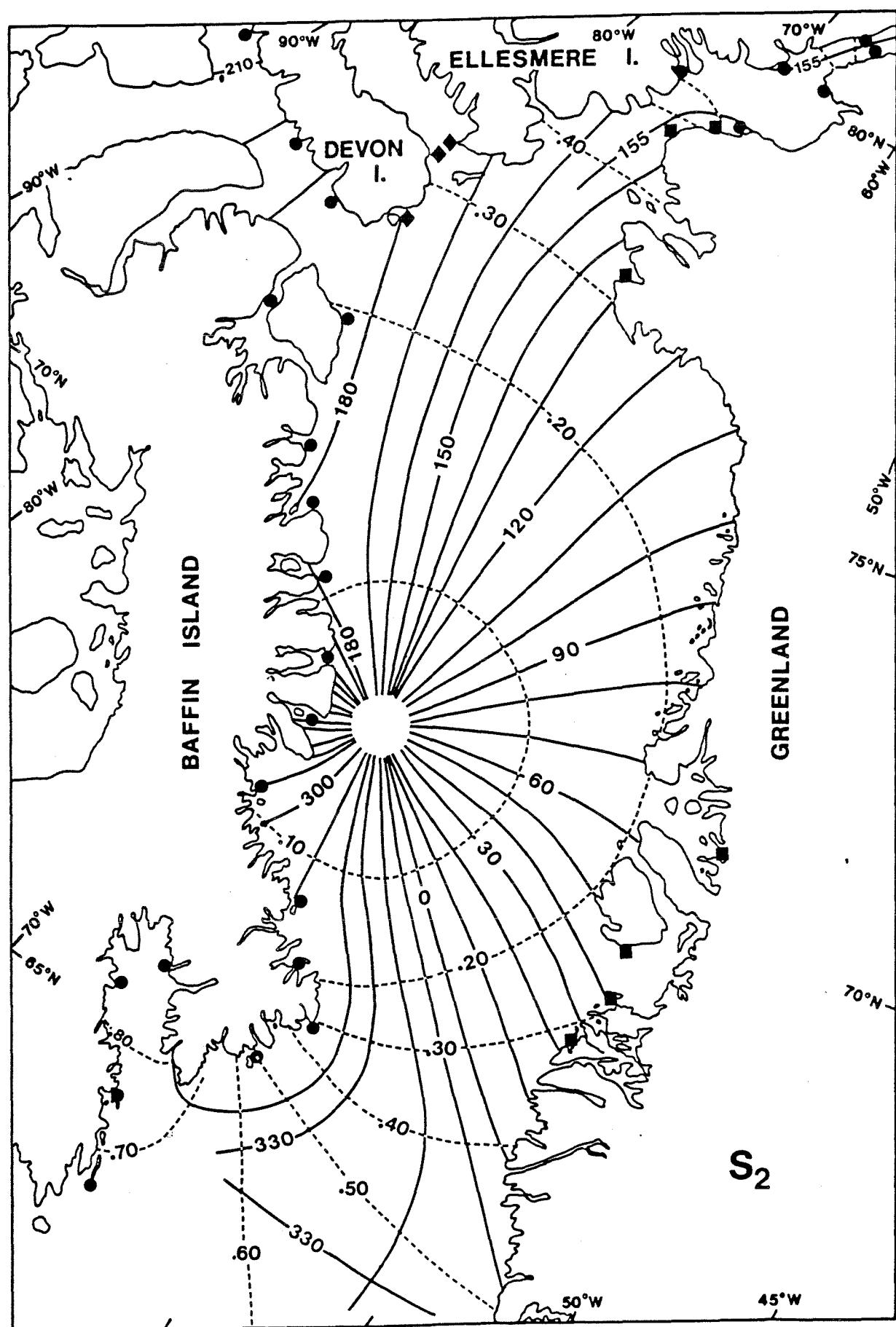


Figure 11. S_2 cotidal chart for Baffin Bay.

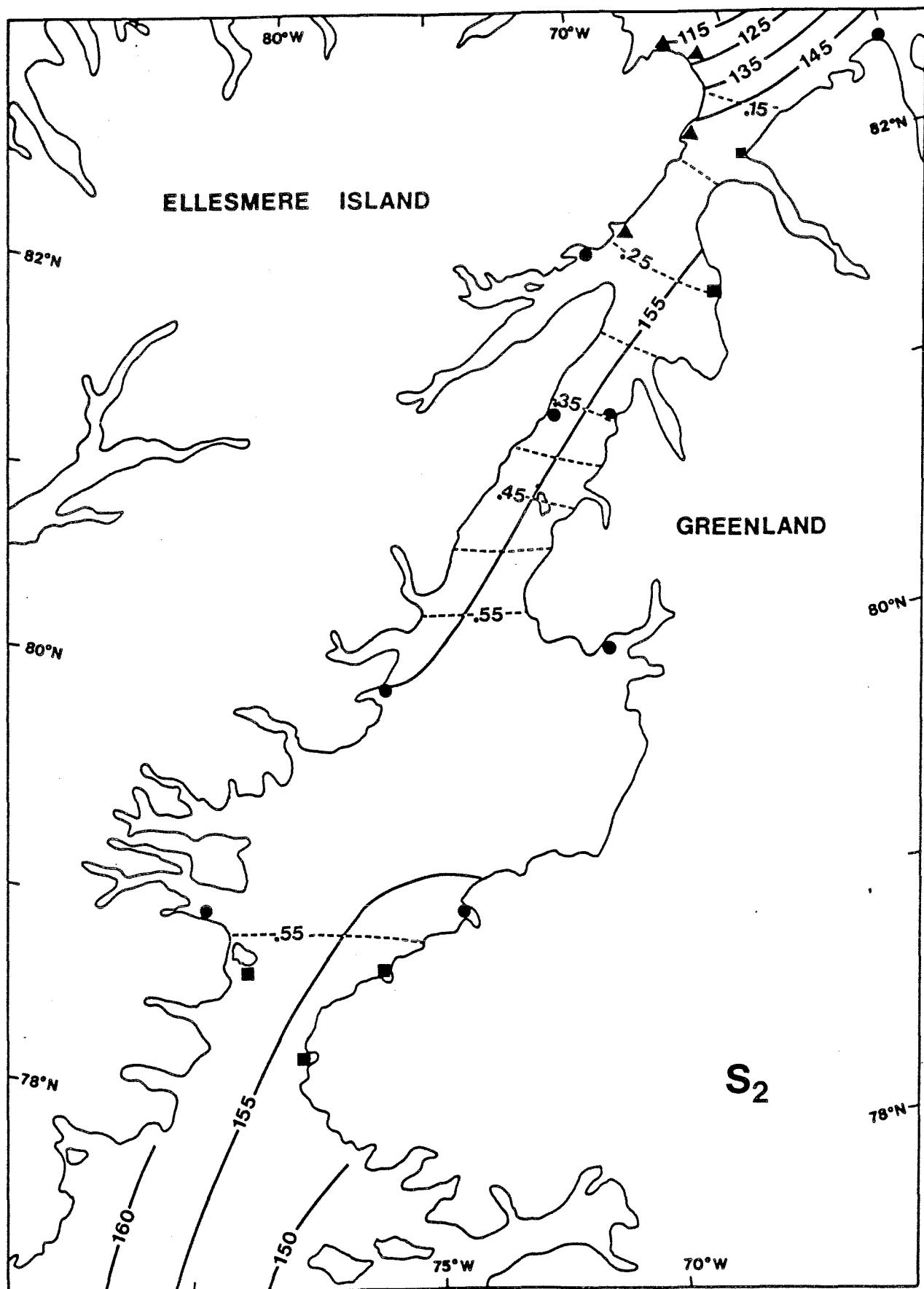


Figure 12. S_2 cotidal chart for Nares Strait.

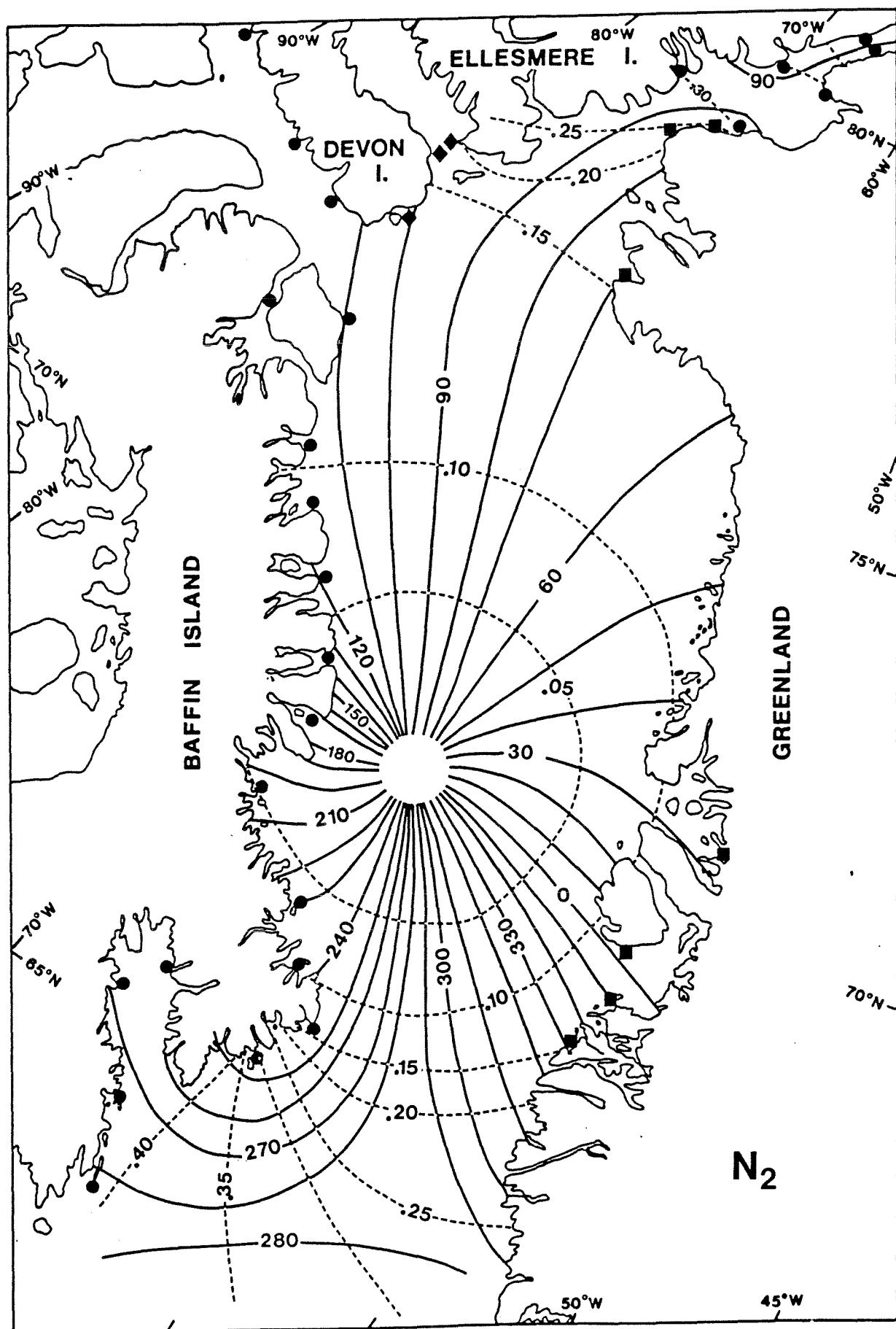


Figure 13. N_2 cotidal chart for Baffin Bay.

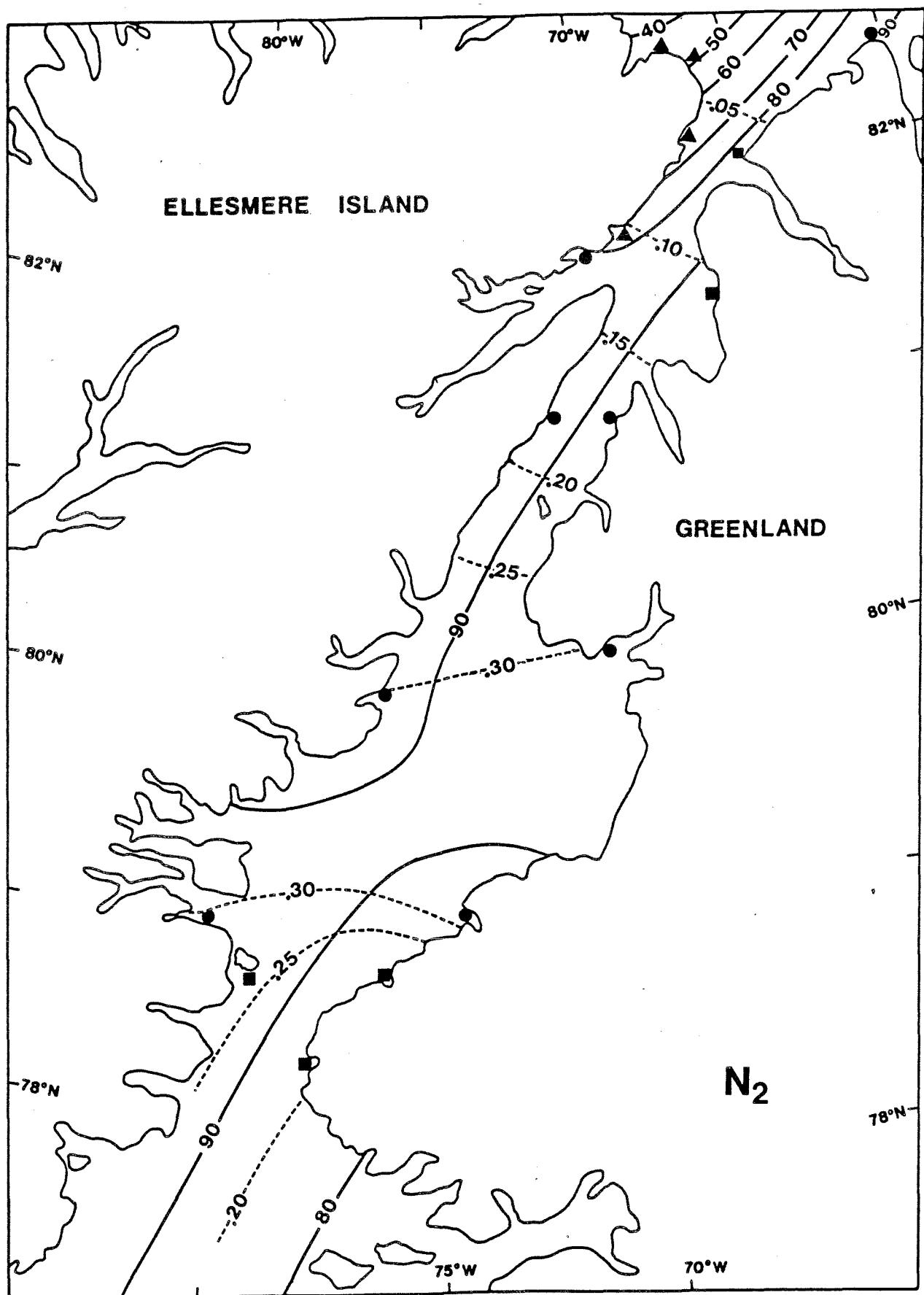


Figure 14. N_2 cotidal chart for Nares Strait.

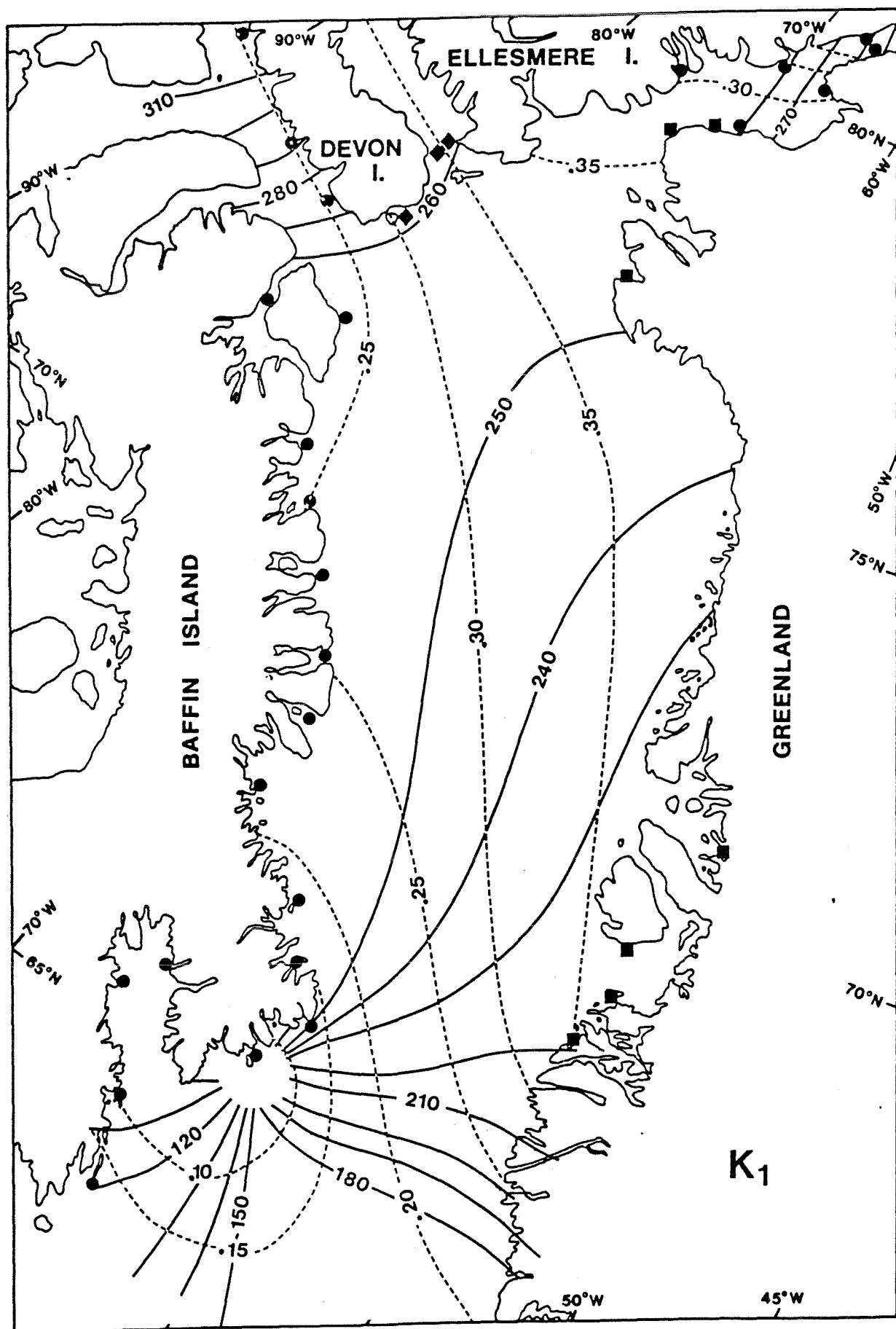


Figure 15. K₁ cotidal chart for Baffin Bay.

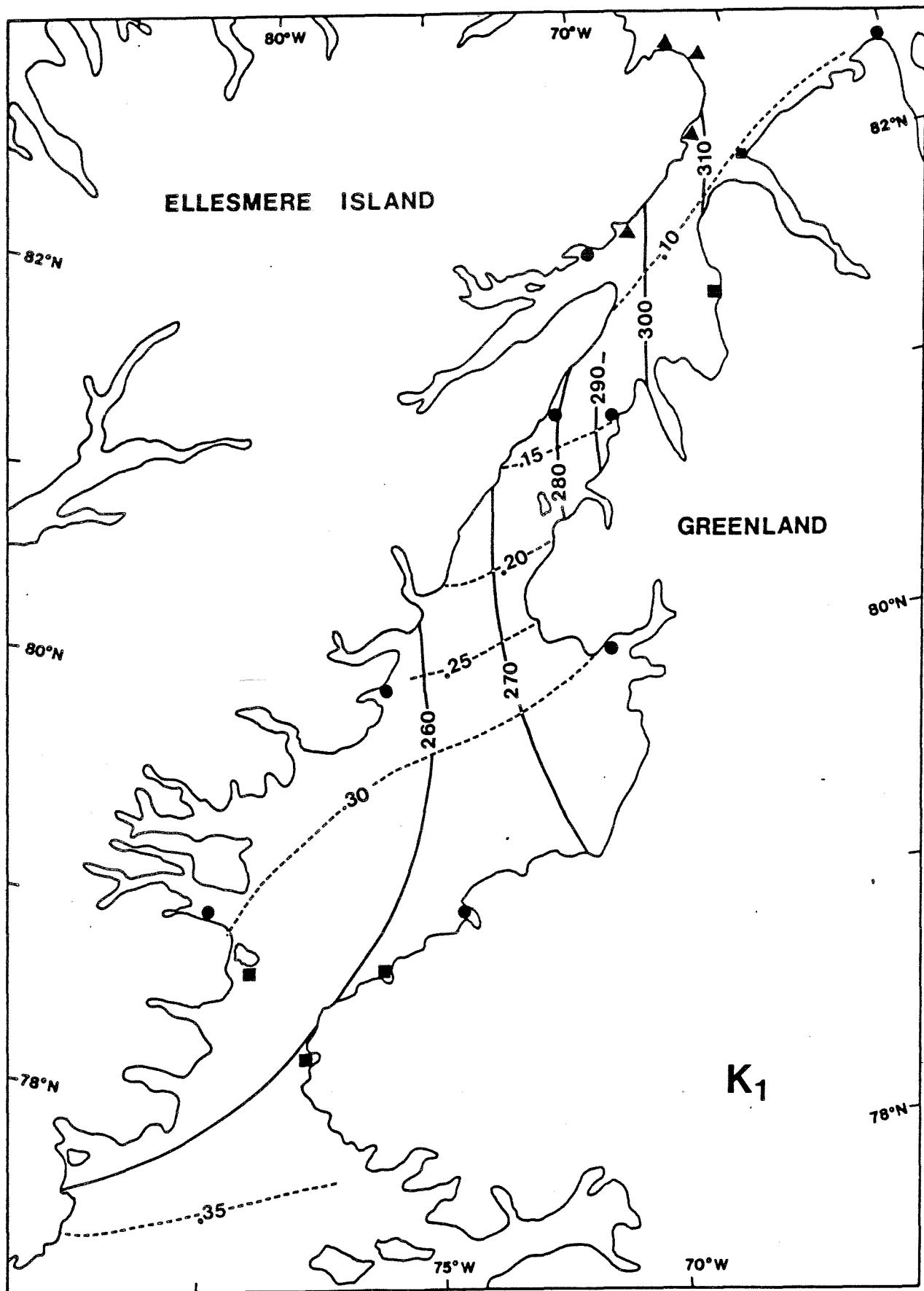


Figure 16. K₁ cotidal chart for Nares Strait.

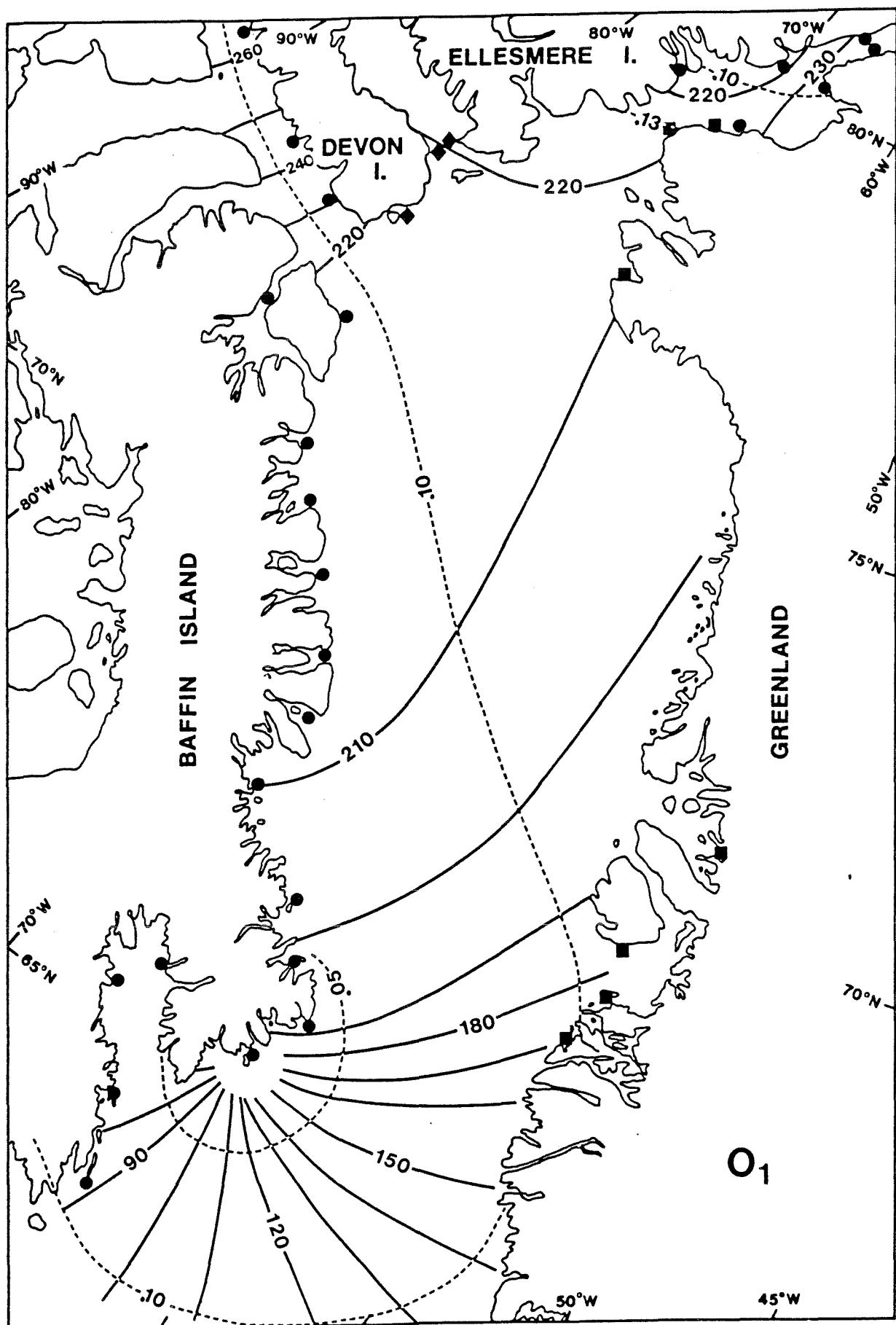


Figure 17. O_1 cotidal chart for Baffin Bay.

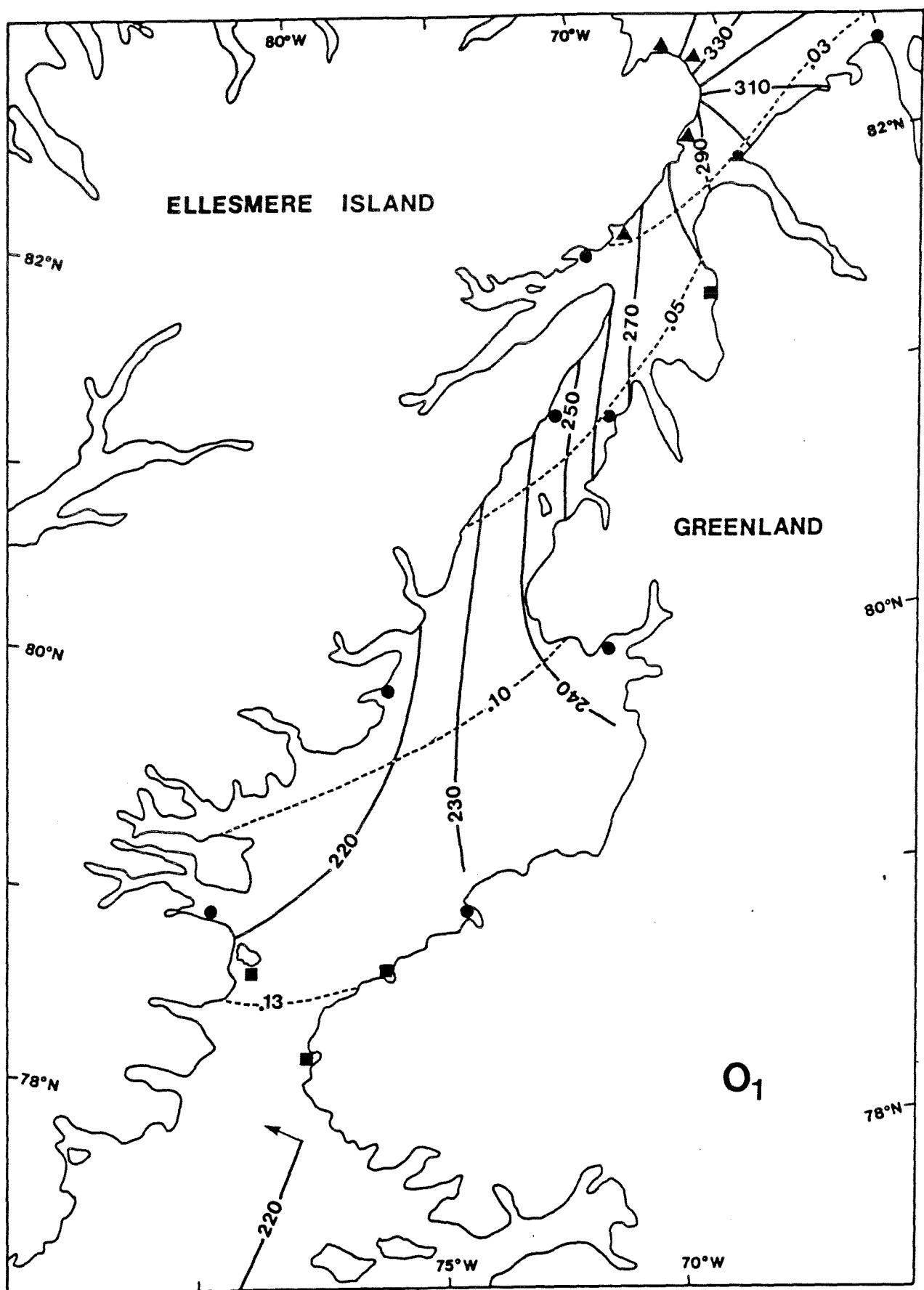


Figure 18. O_1 cotidal chart for Nares Strait.

Table 9 M_2 and K_1 Tidal Constituent Data for Baffin Island, E. Devon Island and Ellesmere Island

STATION NAME	POSITION		M_2		K_1		Source	YR	RECORD LENGTH (days)
	Lat	Long	A	G	A	G			
Brevoort Island	63 16	64 09	1.836	302	0.155	124	*	85	56
Brevoort Harbour	63 19	64 09	1.807	302	.170	124	1	57	29
Frobisher	63 43	68 32	3.452	338	.184	160	1	77	337
Lemieux Is.	64 37	65 10	1.970	289	.087	95	*	85	56
Kingmiksoq	65 31	67 05	2.182	288	.086	95	*	85	55
Imigen Is.	66 01	67 09	2.318	279	.093	140	1	64	15
Pangnirtung Fjord	66 05	66 56	2.205	286	.086	97	*	85	52
Anijjak Is.	65 36	62 17	1.326	272	.049	8	*	85	55
Cape Dyer	66 33	61 40	0.835	273	.109	256	1	58	29
Padloping Is.	67 12	62 26	0.409	262	.202	252	*	85	16
Broughton Is.	67 31	64 04	0.304	254	.246	249	1	61	44
Broughton Is.	67 32	63 45	0.307	258	.196	256	*	85	55
Kivitoo	67 56	64 56	0.246	254	.213	249	1	58	29
Davis Strait	68 13	61 21	0.308	289	.236	242	*	85	368
Cape Hooper	68 23	66 45	0.204	238	.188	251	1	58	29
Cape Hooper	68 25	66 36	0.205	236	.223	259	*	85	54
Aulitiving Is.	69 31	67 09	0.187	204	.228	261	*	85	49
Clyde River	69 50	70 22	0.245	127	.262	241	1	71	98
Cape Christian	70 31	68 13	0.111	151	.106	256	*	85	54
Scott Inlet	71 15	71 08	0.334	133	.254	253	*	85	52
Cape Hunter	71 40	72 19	0.380	136	.249	253	*	85	26
C. Baffin Bay	71 46	71 41	0.365	132	.264	251	*	84	643
Nova Zembla Is.	72 13	74 39	0.449	138	.264	252	*	85	52
Cape Liverpool	73 38	77 56	0.539	136	.216	254	*	85	52
Pond Inlet	72 43	77 59	0.538	137	.257	254	1	82	270
Albert Harbour	72 46	77 29	0.521	137	.256	251	1	84	276
Cape Cockburn	74 53	79 22	0.691	135	.300	264	2	83	61
Belcher Point	75 46	81 05	0.848	133	.344	257	2	83	31
N. Baffin Bay	75 25	74 33	0.690	119	.314	260	*	85	371
King Edward Point	76 08	81 04	0.894	130	.358	260	2	83	30
Pim Island	78 40	74 10	1.167	114	.344	253	1	62	29
Alexandra Fjord	78 55	75 31	1.325	115	.294	258	*	85	46
Scoresby Bay	79 55	71 19	1.353	111	.246	254	*	85	49
Cape Defosse	81 13	65 48	0.803	106	.115	277	*	85	49
Cape Murchison	81 47	64 13	0.577	103	.086	298	*	85	49
St. Patrick Bay	81 48	64 10	0.582	107	.083	295	1	75	35
Lincoln Bay	82 07	62 04	0.379	102	.065	247	1	75	35
Cape Sheridan	82 27	61 30	0.243	66	.048	359	1	09	29
Alert	82 30	62 19	0.209	65	.047	3	1	73	362

Table 10 M₂ and K₁ Tidal Constituent Data for W. Greenland

STATION NAME	POSITION		M ₂		K ₁		Source	YR	RECORD LENGTH (days)
	Lat	Long	A	G	A	G			
Godthaab	64 11	51 45	1.380	292	.201	174	10	51	145
Aningaq	67 55	53 50	.780	351	.360	220	10	50	87
Egedesminde	68 43	52 53	.670	351	.360	208	10	--	29
Nunarssuaq	68 59	53 21	.570	16	.350	228	10	50	87
Godhavn	69 15	53 33	.595	11	.317	223	10	36	29
Kamarajuk Fjord	71 00	51 00	.456	40	.365	199	10	30	60
Thule Air Base	76 32	68 54	.799	95	.396	256	10	--	29
North Star Bay	76 33	68 53	.789	98	.380	250	10	83	24
Marshall Bay	78 56	69 25	1.371	111	.309	268	*	85	46
Nygaard Bay	80 02	65 28	1.414	120	.306	278	*	85	46
Cape Field	81 07	64 13	.759	116	.152	295	*	85	48
Polaris Bay	81 36	61 40	.547	118	.123	310	10	1871	174
Cape Bryant	82 21	54 30	.128	103	.098	336	10	09	29

Table 11 M₂ and K₁ Tidal Constituent Data for Foxe Basin

STATION NAME	POSITION		M ₂		K ₁		Source	YR	RECORD LENGTH (days)
	Lat	Long	A	G	A	G			
Site 1	69 52	78 30	1.070	349	.147	64	9	84	18
Site 2	68 24	82 09	.270	190	.119	73	10	84	47
Site 3	68 12	79 05	.702	228	.068	26	10	84	46
Site 5	67 46	81 46	.482	190	.091	75	10	84	44
Site 8	67 06	81 23	.796	173	.059	88	10	84	44
Hall Beach	68 45	81 13	.227	024	.229	060	9	82	338
Coral Harbour	64 08	83 10	.998	143	.073	219	9	70	143
Diana Bay	60 52	70 04	2.930	009	.157	222	9		
Schooner Harbour	64 24	77 52	2.075	101	.082	222	9		

Table 12 M_2 and K_1 Tidal Constituent Data for High Arctic Stations

STATION NAME	POSITION		M_2		K_1		Source	YR	RECORD LENGTH (days)
	Lat	Long	A	G	A	G			
Griffen Inlet	75 07	92 10	.600	176	.228	331	7	79	47
Stuart Bay	75 38	94 35	.523	179	.165	338	7	80	32
Hyde Parker I	76 29	97 06	.327	191	.101	003	7	79	42
Norah I	77 01	96 37	.187	200	.081	314	7	79	43
Seymour I	76 48	101 14	.156	203	.048	036	7	79	42
Lougheed I	77 27	104 53	.132	206	.038	029	7	79	51
Vessey Hamilton I	76 53	109 00	.131	215	.027	040	7	79	47
Mackenzie King I	77 29	110 14	.138	220	.032	034	7	79	52
Bay of Woe	76 25	89 01	.824	142	.228	274	7	81	46
Land's End	76 54	89 25	.423	165	.086	323	7	81	46
Bere Bay	76 57	94 10	.238	165	.053	035	7	81	45
W. Bjorne Pen.	77 42	88 57	.352	169	.062	340	7	81	145
C. Southwest	78 13	91 50	.281	176	.054	355	7	81	45
Hyperite Pt.	78 08	88 53	.337	173	.055	346	7	81	45
Isachsen	78 47	103 32	.088	258	.048	043	9		
Eureka	79 59	85 57	.012	256			9		15
Iceberg Pt.	80 25	86 10	.045	258			9		
Auldhild Bay	81 32	91 10	.061	309			9		

Table 13 M₂ and K₁ Tidal Constituent Data for Parry Channel

STATION NAME	POSITION		M ₂		K ₁		Source	YR	RECORD LENGTH (days)
	Lat	Long	A	G	A	G			
Dundas Harbour	74 31	82 29	.681	140	.274	273	*	85	51
Dundas Harbour	74 31	82 23	.667	140	.282	274	8	79	264
Borden Stn.	73 43	81 31	.640	141	.206	260	5	85	183
Canada Point	73 16	80 45	.613	139	.226	259	*	85	52
Arctic Bay	73 02	85 10	.612	148	.158	280	5	11	29
Burnett Inlet	74 29	86 09	.657	147	.241	292	*	85	51
Peak Valley	73 42	87 52	.587	152	.114	311	7	83	44
Port Bowen	73 17	89 03	.555	158	.163	335	7	83	44
McBean I.	72 38	89 38	.525	164	.215	350	6	79	55
Cape Kater	71 58	90 04	.436	171	.276	001	7	84	42
Whaler Point	73 49	90 18	.633	157	.238	302	7	83	44
Fury Point	72 54	91 46	.590	169	.289	324	7	83	42
Bellot Str. E	72 01	94 20	.541	188	.362	331	7	83	39
Cape Augherston	71 29	93 17	.518	189	.387	335	7	84	41
Martin I	70 19	91 40	.421	230	.486	348	7	84	41
Easter Cape	70 55	89 27	.147	187	.399	015	7	84	41
C. Chapman	69 18	89 15	.565	288	.602	003	7	84	41
Crown Pr. Fred	70 02	86 50	.381	335	.637	001	5	76	27
Maxwell Bay	74 41	88 54	.675	172	.281	320	5	73	32
Cape Rickets	74 38	91 18	.639	164	.258	319	*	85	50
Beechy Isl.	74 43	91 54	.609	171	.274	335	5	--	29
Wellington Ch.	75 13	93 30	.572	175	.192	330	3	84	62
Assistance Bay	74 37	94 14	.507	175	.207	333	4	81	364
Resolute	74 41	94 54	.463	179	.195	339	5	75	364
Barrow Stn. 1	74 34	94 01	.511	175	.189	327	4	83	30
Barrow Stn. 2	74 24	93 54	.485	169	.155	322	4	83	27
Barrow Stn. 3	74 13	93 46	.472	164	.121	311	4	83	28
Gifford Pt.	74 10	93 37	.473	162	.115	308	4	82	39
Cunningham Inl.	74 08	93 53	.436	163	.106	321	5	76	37
N.E. Peel Sound	73 42	95 45	.259	159	.080	344	4	81	39
N.W. Peel Sound	73 38	96 54	.224	172	.098	342	4	81	44
Wadsworth I	73 26	95 41	.229	152	.087	347	5	79	59
Otrick I.	72 36	95 33	.159	103	.099	360	5	79	58
Bellot Str. W.	71 58	95 08	.176	084	.101	007	7	83	39
Tasmania I.	71 12	96 25	.234	054	.102	011	5	79	56
C. Felix	69 56	97 58	.414	033	.127	029	7	80	34
Thackeray Pt.	71 40	99 42	.252	002	.127	023	7	80	31
C. Stang	71 29	104 16	.376	331	.110	009	7	80	36
Minto Head	73 06	102 15	.187	269	.083	024	7	80	37

Table 13 M₂ and K₁ Tidal Constituent Data for Parry Channel (concluded)

STATION NAME	POSITION		M ₂		K ₁		Source	YR	RECORD LENGTH (days)
	Lat	Long	A	G	A	G			
Lowther I.	74 39	97 25	.327	193	.124	350	4	81	47
L. Cornwallis I.	75 21	96 48	.327	172	.118	347	6	73	27
Karluk-Croz	75 31	97 12	.402	189	.134	350	3	77	85
Airstrip Point	76 05	97 44	.377	186	.109	346	5	62	29
Cape Capel	75 02	98 02	.368	199	.162	354	5	71	31
Allison Bay	74 58	99 22	.379	210	.148	352	5	81	46
Longford Pt.	75 46	103 17	.272	243	.093	024	4	85	43
C. Aldridge	76 06	104 26	.192	236	.072	031	3	83	53
Byam M. Ch. W.	75 55	105 36	.227	228	.041	016	3	84	61
Rae Pt.	75 22	105 42	.322	236	.069	005	5	76	364
Byam Ch.	75 08	105 50	.304	248	.072	342	5	73	38
Byam I.	75 01	104 13	.326	244	.090	014	5	77	33
Stephanson I.	73 23	104 28	.298	276	.079	004	7	80	36
V. Melville S.	73 45	106 21	.238	257	.039	336	3	82	62
Ross Pt.	74 57	107 29	.247	251	.057	359	3	82	53
Bridport Inlet	75 00	108 54	.346	258	.058	028	3	78	65
C. Bounty	74 51	109 32	.358	252	.072	024	5	77	34
Winter Harbour	74 47	110 48	.368	256	.067	018	5	--	29
Natkusiak Pen.	73 01	110 28	.377	247	.037	022	5	77	31
C. Dundas	74 28	113 46	.300	258	.056	035	9	82	105
Parker Pt.	73 52	116 15	.282	246	.032	030	9	82	107

Separate co-phase and co-range charts were constructed for the M_2 and K_1 constituents for clarity in the Archipelago. These charts are shown in Figures 19 through 22.

4.2 MAJOR FEATURES OF THE COTIDAL CHARTS

The M_2 tidal constituent is, by far, the largest in the Eastern Arctic. Figure 9 shows that the M_2 tides of Baffin Bay are forced by the tide in the Labrador Sea and that the tide wave travels cyclonically around Baffin Bay in a Kelvin-wave-like manner. There is an amphidromic point located in the vicinity of $69^{\circ} 30' N$, $62^{\circ} 30' W$. This location is over 300 km south of the point reported by Godin (1966). In other respects the cotidal chart presented here and that of Godin (1966) are in general agreement.

The detail of the M_2 constituent in Nares Strait shown in Figure 10 reveals that the maximum amplitudes occur in Kane Basin and that all of Nares Strait is nearly in phase. However there is a strong suggestion of southward propagation of tidal energy at the northern end of Robeson Channel. The tide wave propagates from east to west south of Kane Basin and from west to east north of Kane Basin.

As pointed out by Godin (1966), the other semi diurnal constituents exhibit characteristics similar to those of M_2 with the positions of the amphidromic points slightly altered.

In Figures 19 and 20 the behaviour of the M_2 constituent in the Archipelago is portrayed. The tide propagates westward into Lancaster Sound then southward into Prince Regent Inlet and westward into Viscount Melville Sound. There is a very strong suggestion that the tide propagates eastward through Fury and Hecla Strait into Foxe Basin. The situation in Foxe Basin, however, is very confused and more data are needed to clarify it. Strong energy dissipation in the shallow waters there is probably chiefly responsible for the complexity of the system.

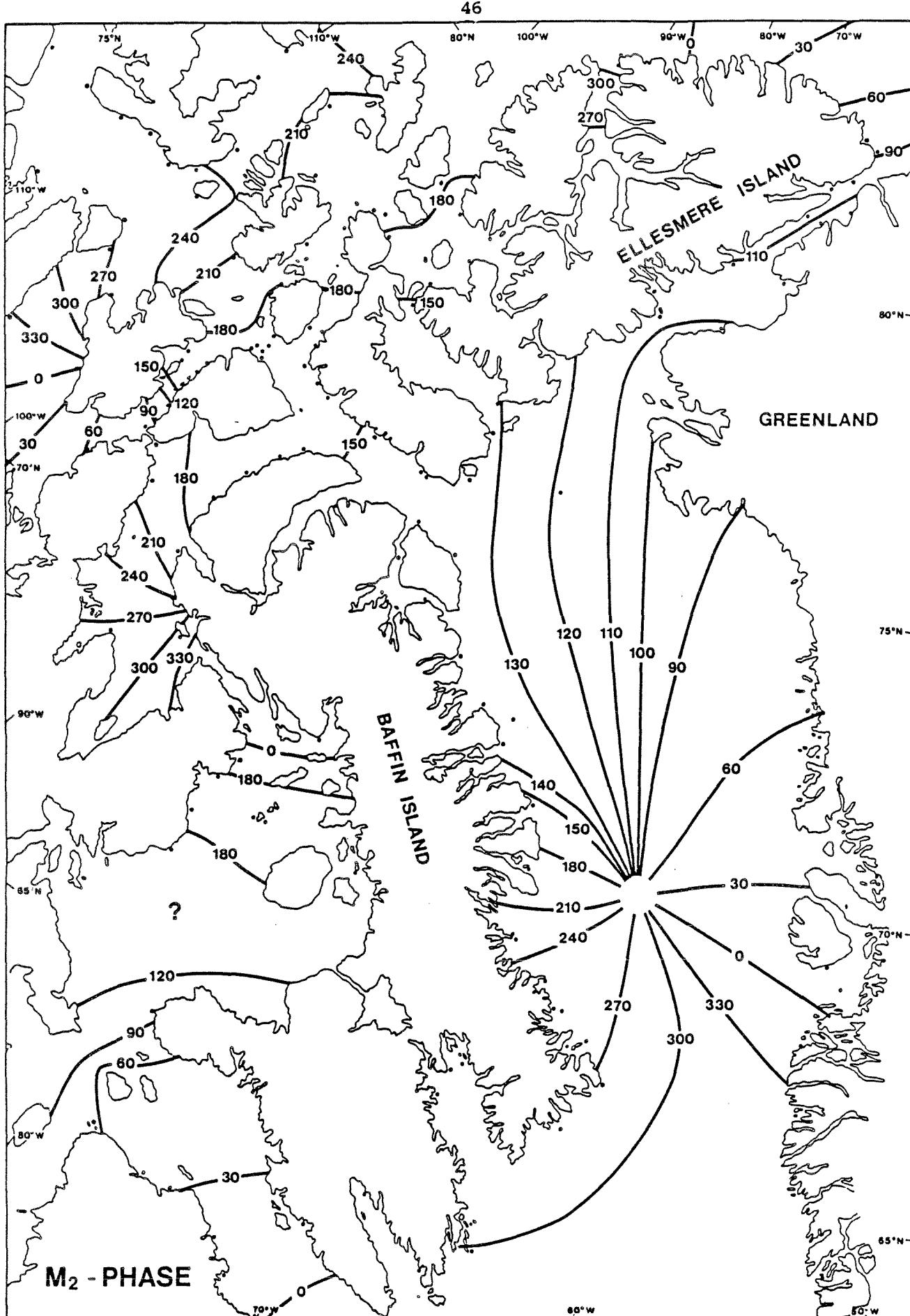


Figure 19. M₂ co-phase chart for the Eastern Arctic. Phases are relative to Greenwich. The question mark in Foxe Basin indicates the uncertainty of the situation there. Small dots indicate tidal stations.

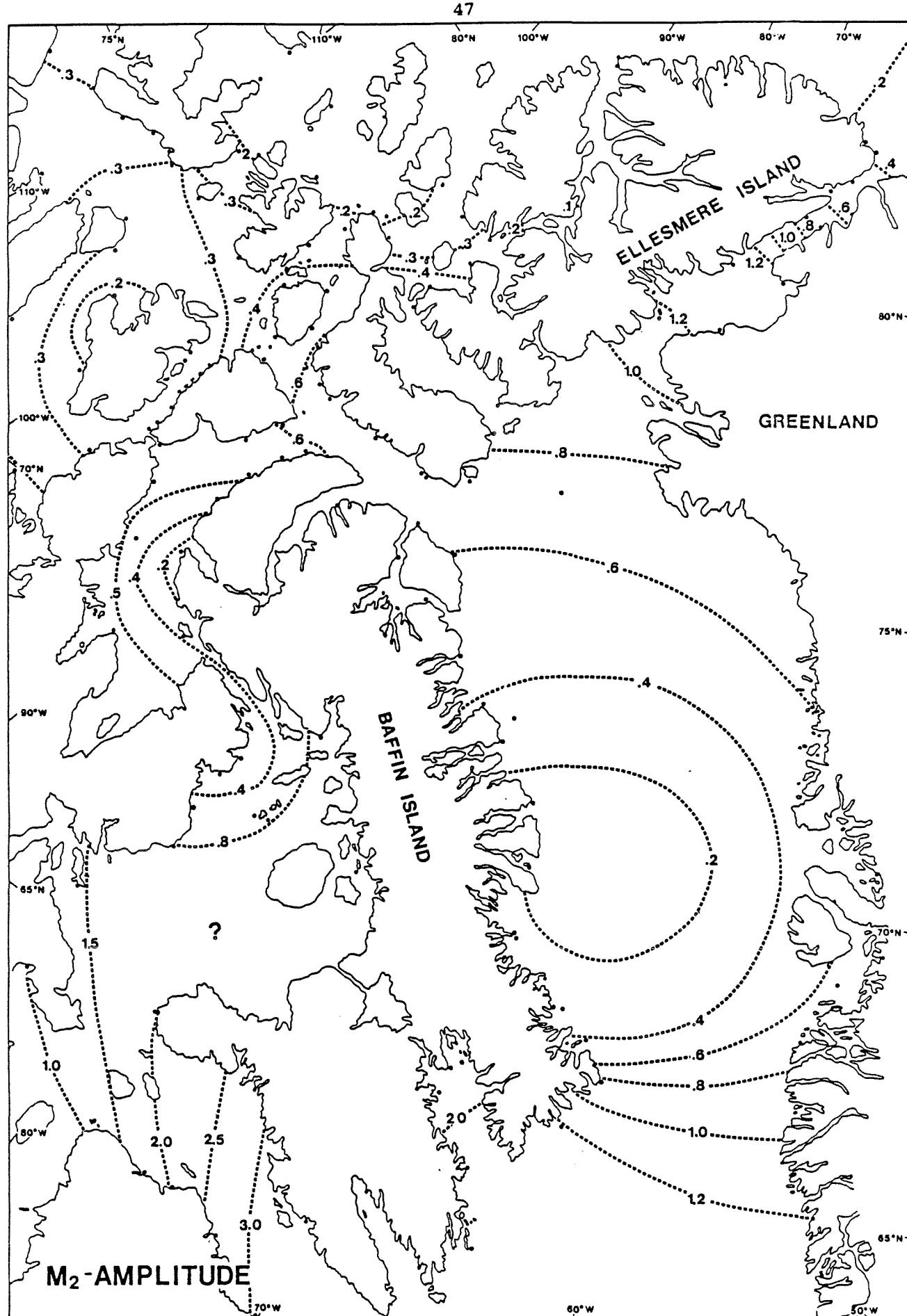


Figure 20. M₂ co-range chart for the Eastern Arctic. Amplitudes are in metres. The question mark in Foxe Basin indicates the uncertainty of the situation there. Small dots indicate tidal stations.

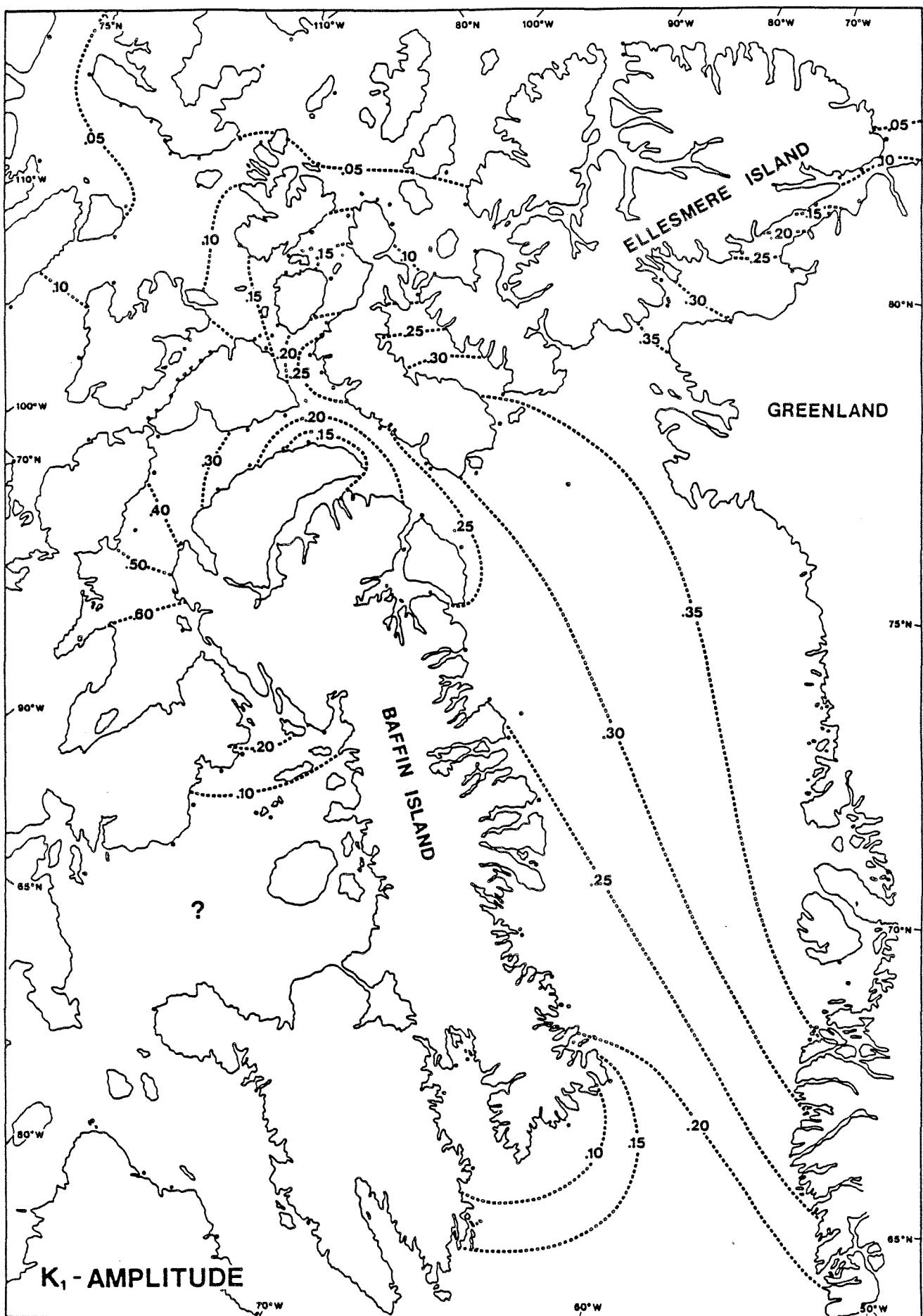


Figure 21. K₁ co-phase chart for the Eastern Arctic. Phases are relative to Greenwich. The question mark in Foxe Basin indicates the uncertainty of the situation there. Small dots indicate tidal stations.

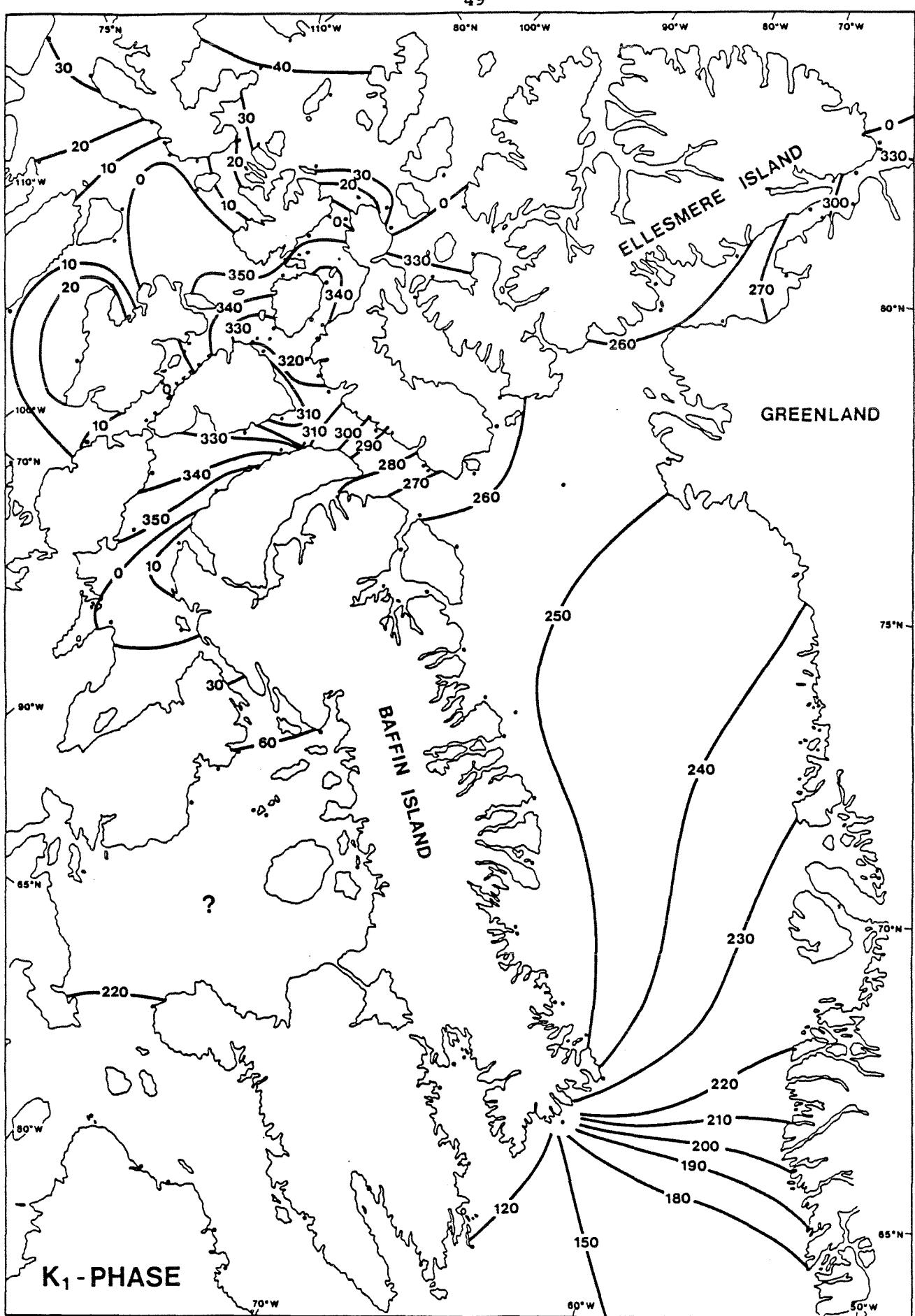


Figure 22. K₁ co-range chart for the Eastern Arctic. Amplitudes in metres. The question mark in Foxe Basin indicates the uncertainty of the situation there. Small dots indicate tidal stations.

From Viscount Melville Sound the tide wave propagates southward into M'Clintock Channel, counter clockwise around Prince of Wales Island and northward through Franklin Strait and Peel Sound. The M_2 tide appears to propagate into the high Arctic Islands through Jones Sound and Wellington Channel.

The characteristics of the K_1 constituent are representative of all the diurnal tidal constituents in the region. In agreement with Godin's conclusions there appears to be a "degenerate" amphidromic point in the vicinity of 66° N on the Baffin Island coast and a clear indication that amplitudes are largest at the northern end of Smith Sound. The K_1 constituent propagates in a manner similar to the M_2 except in the vicinity of Prince of Wales Island where propagation appears to be southward down both M'Clintock Channel and Peel Sound. In the channels of the high arctic the amplitude of the K_1 component diminishes to 5 cm at which point the significance of the tidal measurements begins to degrade.

4.3 CURRENT OBSERVATIONS

We have only one time series of velocity in Kennedy Channel to examine. At this site the maximum currents of up to 55 cm s^{-1} occur along an axis oriented 80° to 260° true, in close agreement with the orientation of the major axis of the M_2 ellipse (see Appendix 2 for the histogram and ellipse plots). The orientation of Kennedy Channel at the location of the current meter is about 30° true so that the flows are about 45° across the longitudinal channel axis. Since the current meter was located only 5 m below the ice it is well within the planetary boundary layer and one might expect a rotation of the currents due to friction. However, the sense of this rotation should be down the pressure gradient or toward the east whereas, in fact, it is the opposite. We can only conclude that the direction data, obtained here are of doubtful validity. On the other hand the current speeds are in general agreement with those reported by Godin (1979).

4.4 TEMPERATURE VARIATION

The year-long tide gauge records at sites A and C exhibit substantial variation in temperature.

At site A in 205 m depth, nearly tidal period oscillations appear during April 1984 and April 1985.

At site C in 470 m depth, the mean temperature is roughly $+0.5^{\circ}\text{C}$; the warmest measured during this study and understandably so. This instrument was located very near the depth of the core of the warm Atlantic water originating from the West Greenland Current. Temperatures as high as $+1.4^{\circ}\text{C}$ were measured and there were very dramatic temperature changes. These are generally not of tidal period, in fact they appear aperiodic. The lowest temperature measured at this instrument was approximately -0.26°C , in excellent agreement with the temperatures recorded at 1711 m depth at site B in Davis Strait, lending credence to the measurements.

One might cautiously conjecture that very large vertical excursions of isotherms occur aperiodically in northern Baffin Bay. In that the temperature variations were recorded on the bottom, they are almost certainly not due to internal oscillations. Convective processes or substantial cross-isobath motions of water masses are the most probable causes of the observed temperature changes.

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**Tidal Constituents
and
Time Series Plots of
Pressure and Temperature
And Basic, De-tided and Filtered
Pressure Records**

Appendix 1

TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 1****TIDE GAUGE # 333**

Site # 1: Brevoort Island

Position: 63°15'54"N 64°8'48"W

Tide Gauge #: Aanderaa TG3 #333

Date/Time of Deployment: 1985/02/25 16:45

Date/Time of Recovery: 1985/04/23 14:46

Sampling Interval: 30 min reduced to 29.99624 min

Number of Records on Tape: 2759

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	6.474	3.257	1.433
Detided Pressure	-0.260	0.202	0.001	0.075
Filtered Pressure	3.119	3.350	3.256	0.047

Data Quality: Timing 10 minutes 23 seconds fast

Fairly clean record

Data Processing Sequence:

Timing error linearly partitioned over entire record and a clamped end cubic spline used to recalculate data points on the hour.

Normal stream subsequently

EASTERN ARCTIC TIDAL SURVEY, 1985

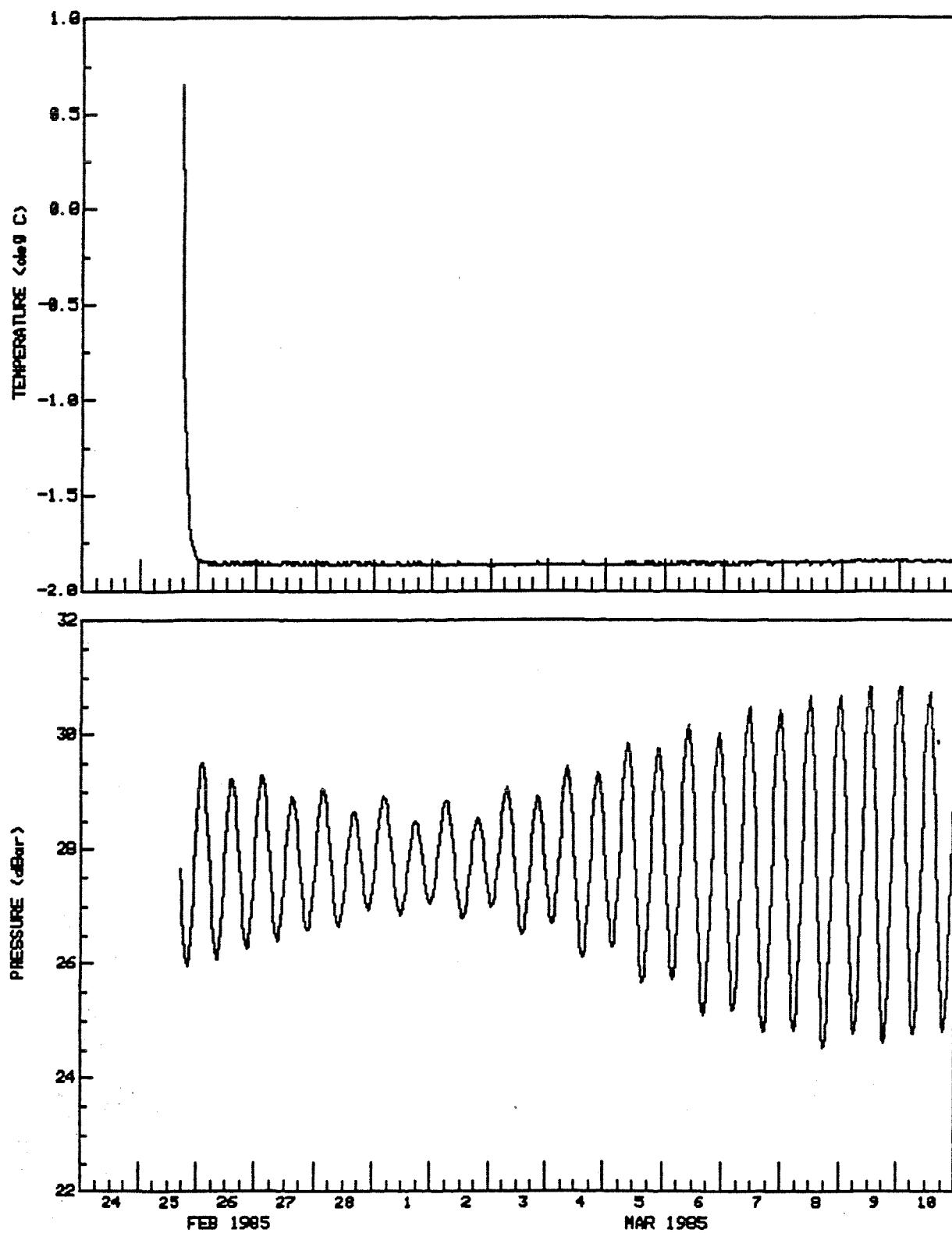
ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #1 BREVOORT ISLAND LAT: 63 15 54.0 N
 DEPTH: 30 M LONG: 64 8 48.0 W
 START: 1800Z 25/ 2/85 END: 1300Z 23/ 4/85
 NO.OBS.= 1364 NO.PTS.ANAL.= 1364 MIDPT: 300Z 26/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	3.2328	0.00
2	MM	0.00151215	0.0224	157.62
3	MSF	0.00282193	0.0086	113.20
4	ALP1	0.03439657	0.0026	227.90
5	ZQ1	0.03570635	0.0022	109.11
6	Q1	0.03721850	0.0106	67.33
7	O1	0.03873065	0.0923	86.59
8	N01	0.04026860	0.0049	114.43
9	P1	0.04155259	0.0512	123.76 INF FR K1
10	K1	0.04178075	0.1551	123.76
11	J1	0.04329290	0.0127	129.38
12	OO1	0.04483084	0.0053	107.92
13	UPS1	0.04634299	0.0019	201.25
14	EPS2	0.07617730	0.0276	189.45
15	MU2	0.07768947	0.0976	209.65
16	N2	0.07899922	0.4003	283.05
17	M2	0.08051139	1.8363	302.10
18	L2	0.08202356	0.0771	287.35
19	S2	0.08333331	0.6524	349.31
20	K2	0.08356148	0.1762	349.31 INF FR S2
21	ETA2	0.08507365	0.0268	28.15
22	M03	0.11924207	0.0010	60.79
23	M3	0.12076712	0.0077	85.54
24	MK3	0.12229216	0.0031	334.76
25	SK3	0.12511408	0.0020	195.05
26	MN4	0.15951067	0.0044	356.58
27	M4	0.16102278	0.0097	18.45
28	SN4	0.16233259	0.0015	102.18
29	MS4	0.16384470	0.0079	90.48
30	S4	0.16666669	0.0022	135.68,
31	2MK5	0.20280355	0.0002	267.83
32	2SK5	0.20844740	0.0003	272.58
33	2MN6	0.24002206	0.0042	29.69
34	M6	0.24153417	0.0051	61.93
35	2MS6	0.24435616	0.0036	109.85
36	2SM6	0.24717808	0.0019	111.64
37	3MK7	0.28331494	0.0007	41.90
38	M8	0.32204562	0.0010	336.24

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #1 BREVOORT ISLAND DEPTH(m) 28 TYPE DESPIKED
63 15' 54"N 64 8' 48"W AANDERAA TG3 #333 DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #1 BREVOORT ISLAND

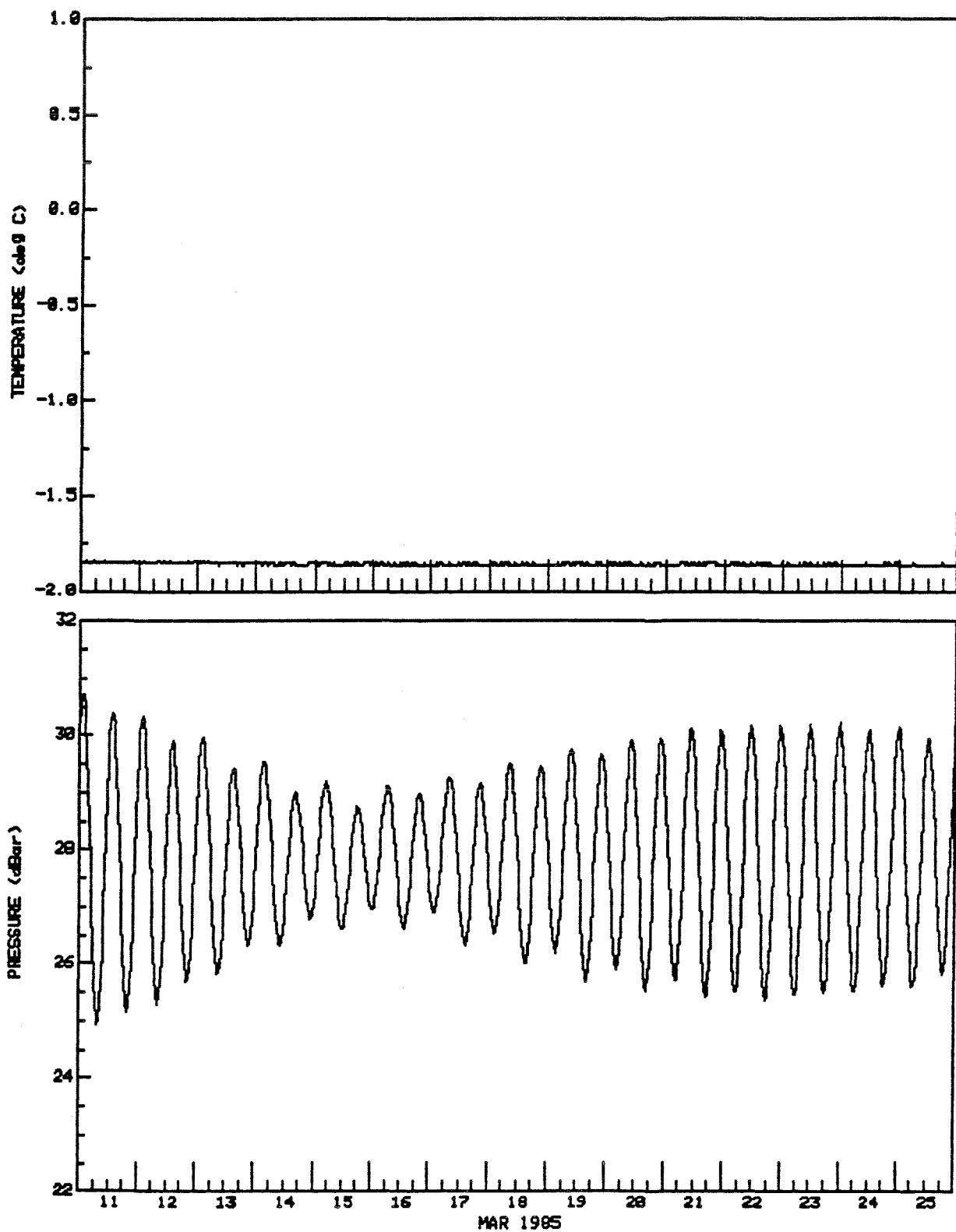
DEPTH(m) 28

TYPE DESPIKED

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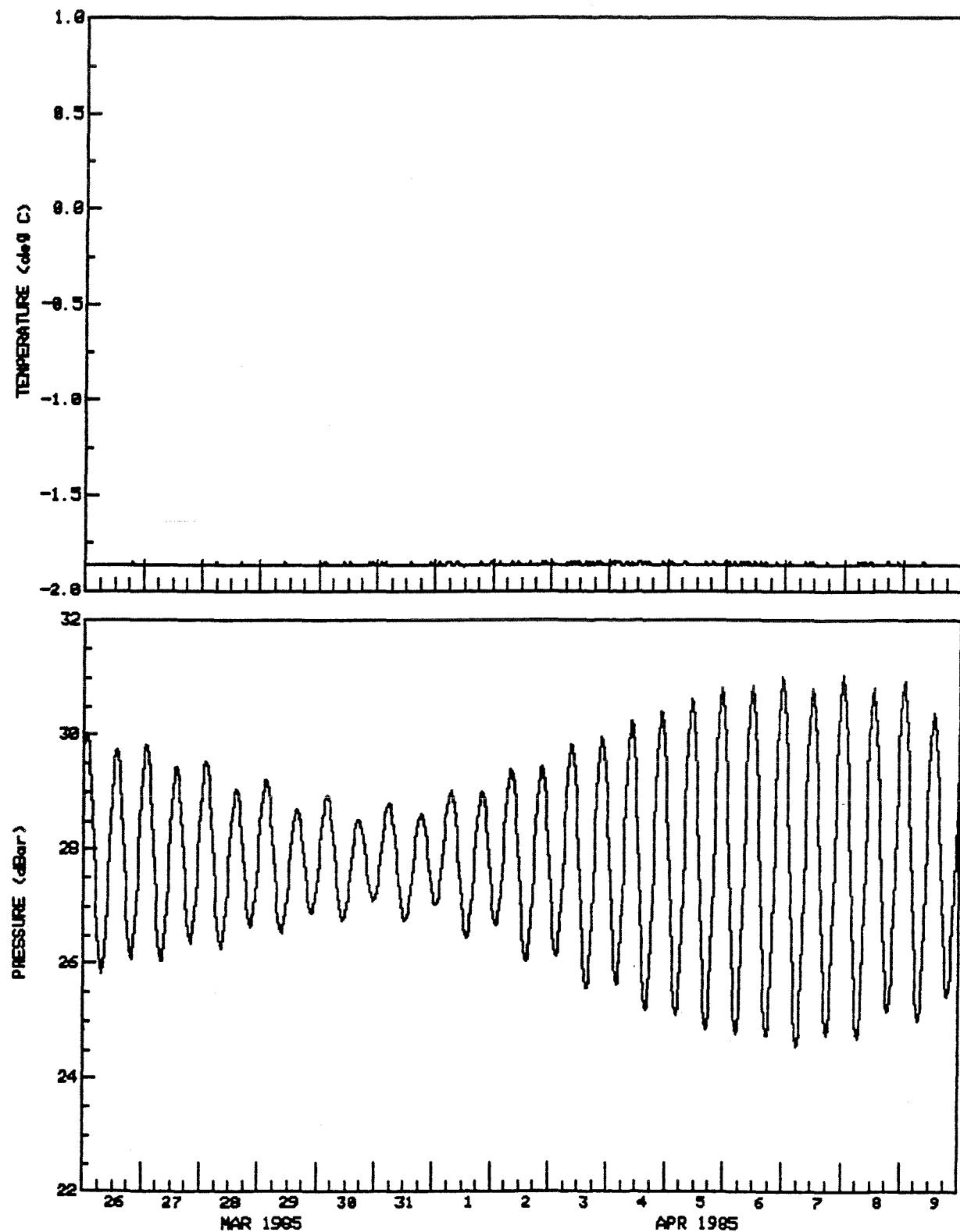
AANDERAA TG3 #333

DT(min) 30



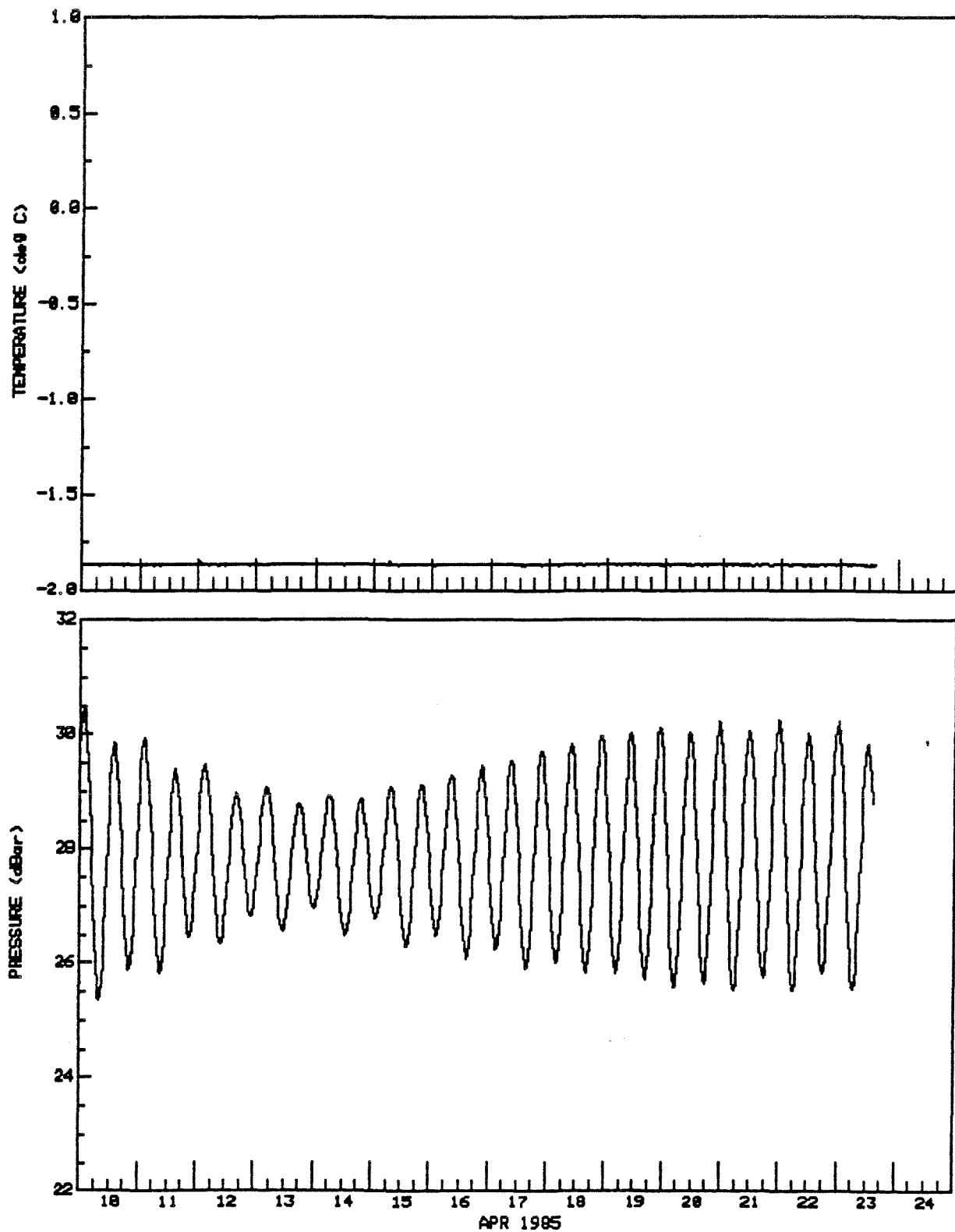
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #1 BREVOORT ISLAND DEPTH(m) 28 TYPE DESPIKED
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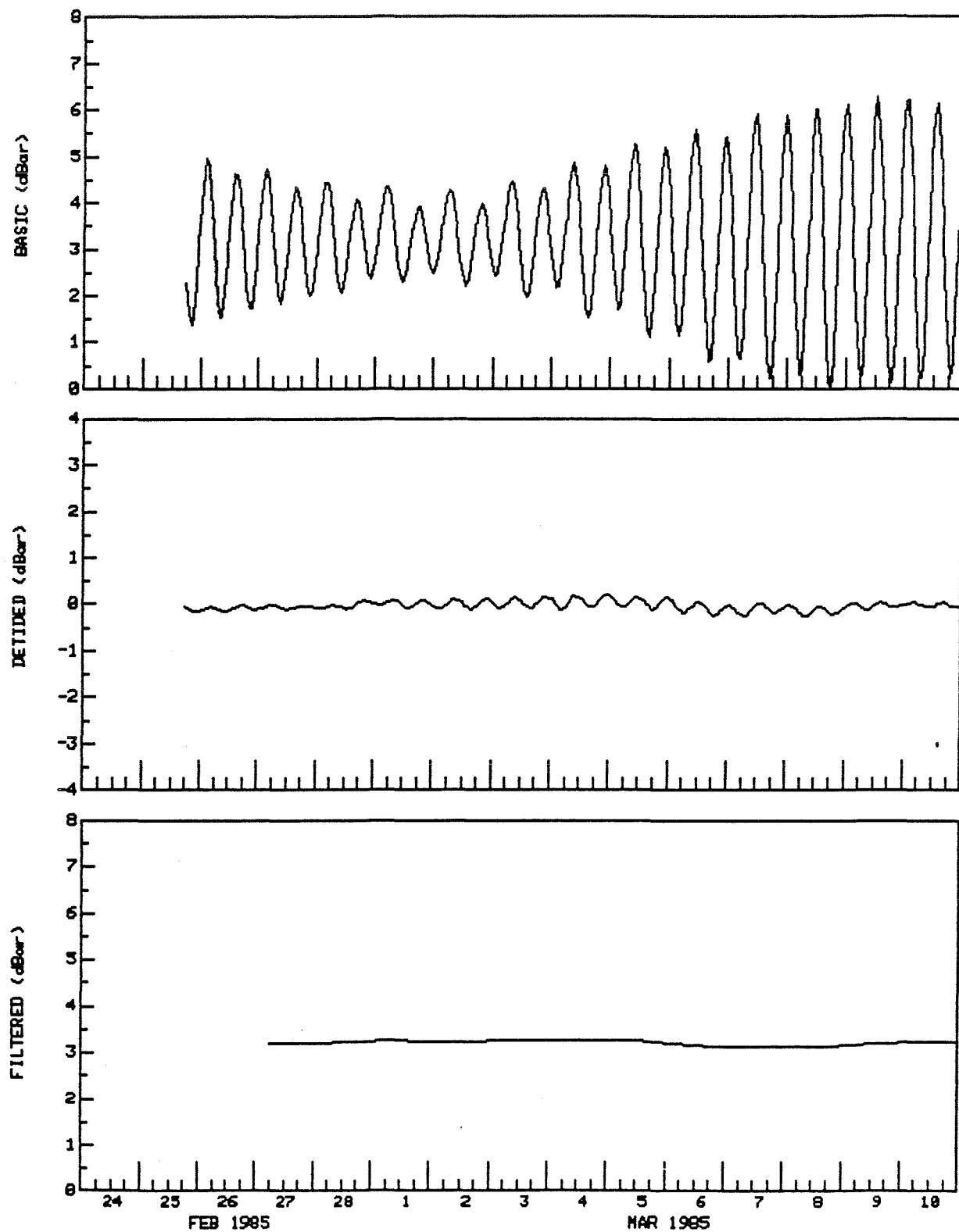


EASTERN ARCTIC TIDAL SURVEY, 1985

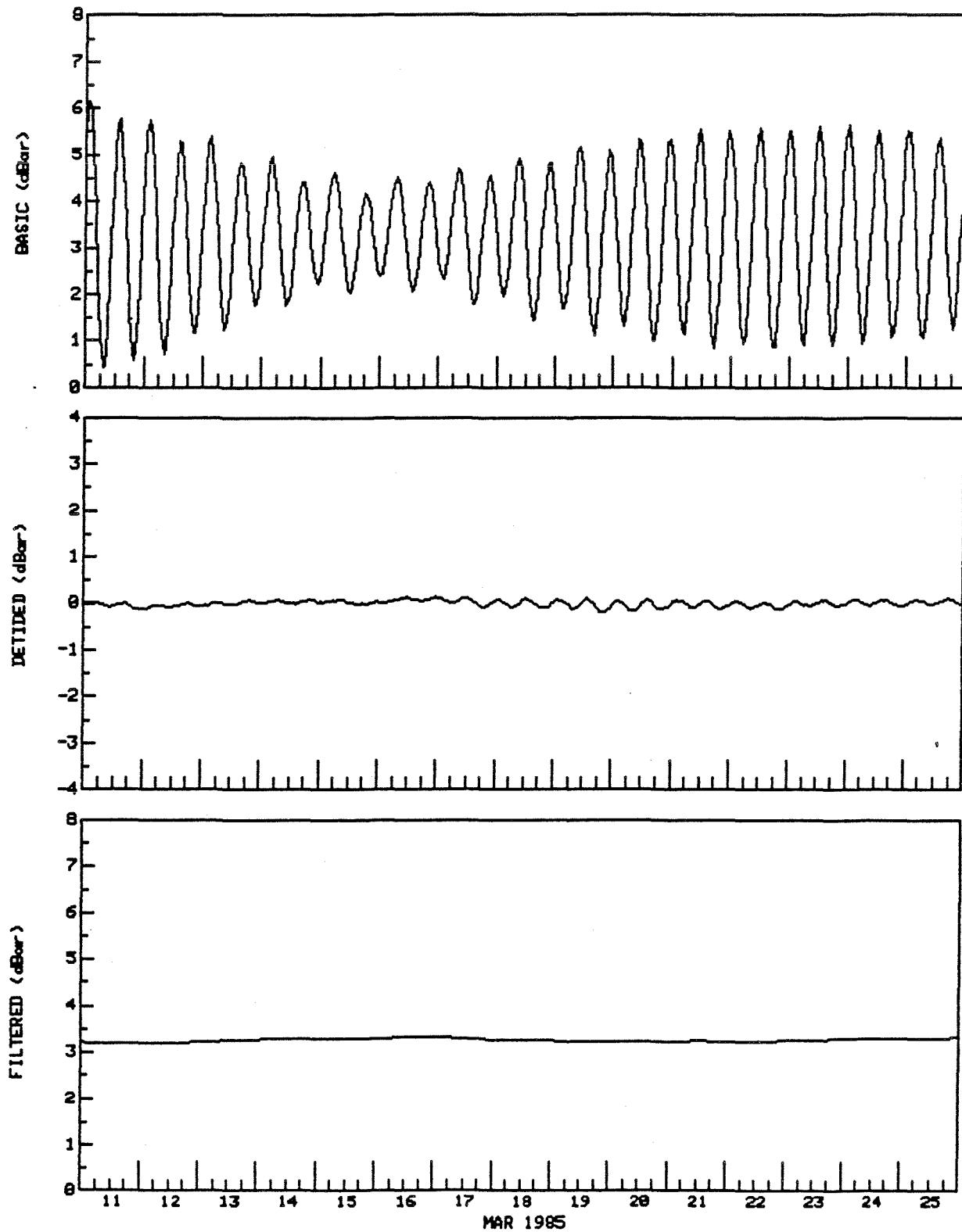
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63 15' 54"N 64 8' 48"W AANDERAA TG3 #333 DT(min) 30



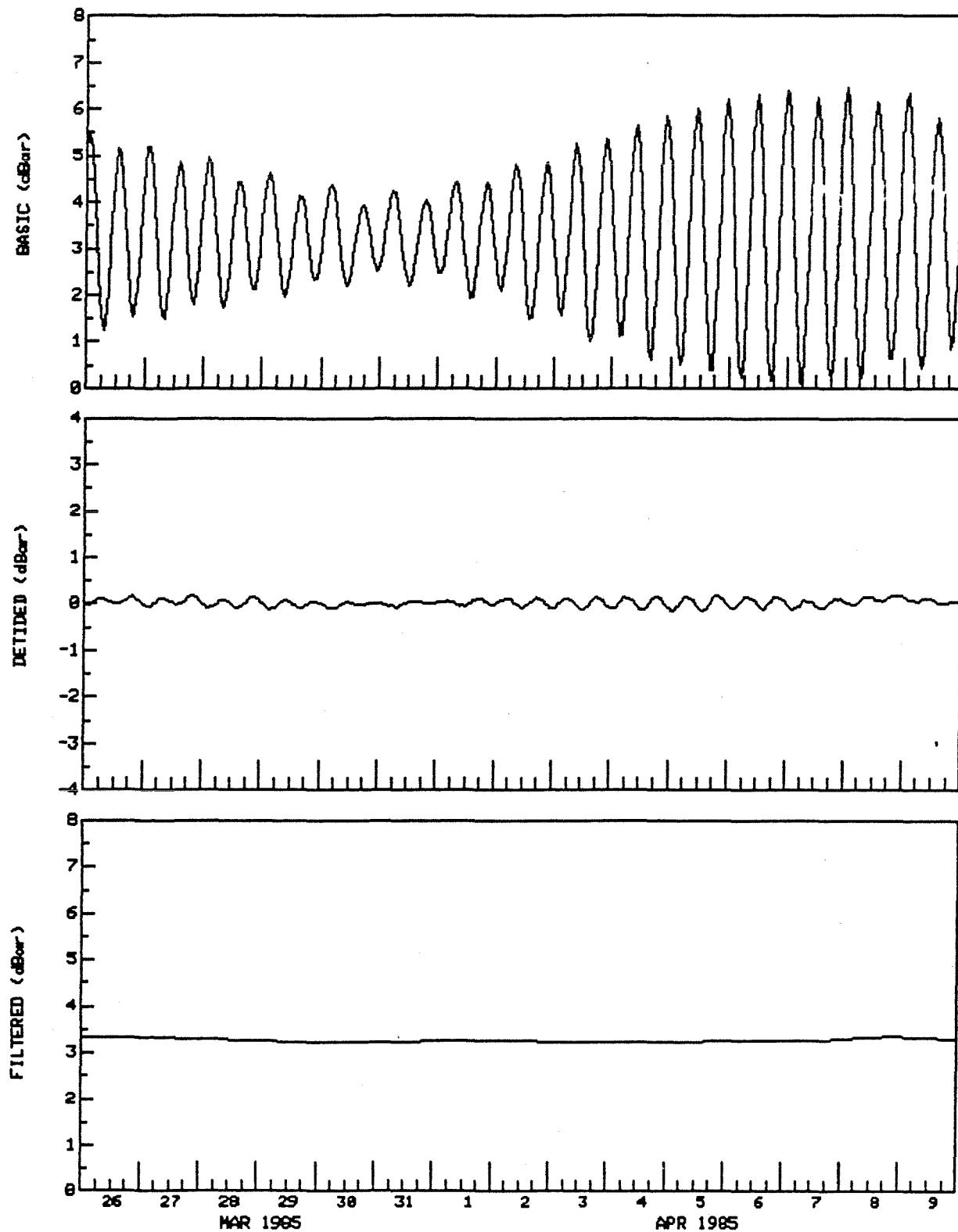
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #1 BREVOORT ISLAND DEPTH(m) 28 TYPE DESPIKE
63 15' 54"N 64 8' 48"W AANDERAA TG3 #333 DT(min) 60



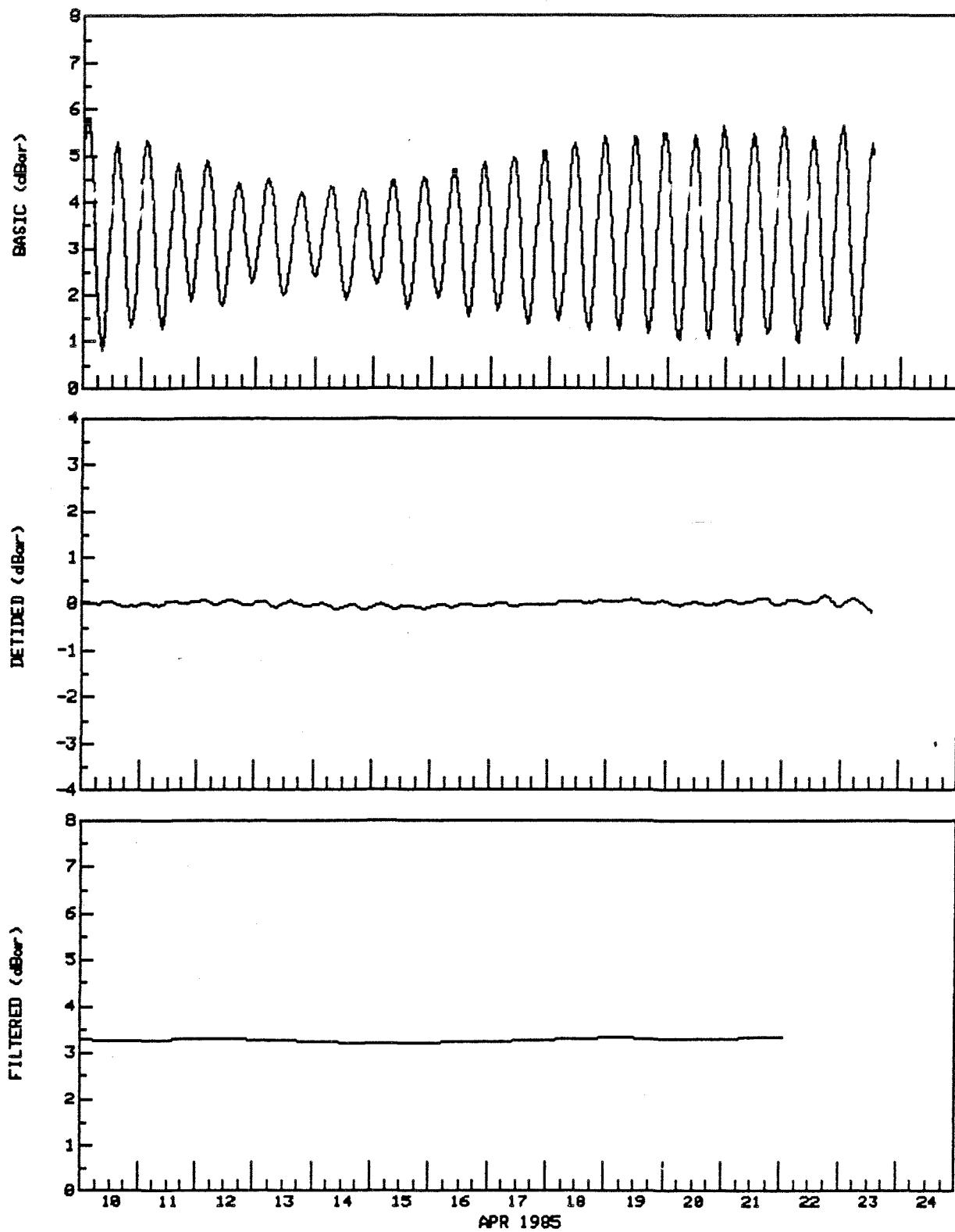
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #1 BREVOORT ISLAND DEPTH(m) 28 TYPE DESPIKED
63 15' 54"N 64 8' 48"W AANDERAA TG3 #333 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #1 BREVOORT ISLAND DEPTH(m) 28 TYPE DESPIKED
63 15' 54"N 64 8' 48"W AANDERAA TG3 #333 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #1 BREVOORT ISLAND DEPTH(m) 28 TYPE DESPIKED
63 15' 54"N 64 8' 48"W AANDERAA TG3 #333 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 2****TIDE GAUGE # 332**

Site # 2: Lemieux Island

Position: 64°36'36"N 65°9'54"W

Tide Gauge #: Aanderaa TG3 #332

Date/Time of Deployment: 1985/02/25 18:23

Date/Time of Recovery: 1985/04/22 18:08

Sampling Interval: 30 min

Number of Records on Tape: 2736

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	6.937	3.507	1.542
Detided Pressure	-0.204	0.184	0.001	0.064
Filtered Pressure	3.389	3.581	3.513	0.040

Data Quality: Timing 9 seconds slow

Pressure record fairly clean

Temperature data very poor

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #2 LEMIEUX ISLAND LAT: 64 36 36.0 N
 DEPTH: 25 M LONG: 65 9 54.0 W
 START: 1900Z 25/ 2/85 END: 1800Z 22/ 4/85
 NO.OBS.= 1344 NO.PTS.ANAL.= 1344 MIDPT: 1800Z 25/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	---
1	Z0	0.00000000	3.4885	0.00
2	MM	0.00151215	0.0183	175.89
3	MSF	0.00282193	0.0114	156.96
4	ALP1	0.03439657	0.0014	292.53
5	2Q1	0.03570635	0.0015	331.04
6	Q1	0.03721850	0.0089	70.89
7	O1	0.03873065	0.0532	74.29
8	NO1	0.04026860	0.0030	82.68
9	P1	0.04155259	0.0287	95.38 INF FR K1
10	K1	0.04178075	0.0869	95.38
11	J1	0.04329290	0.0081	100.85
12	OO1	0.04483084	0.0030	91.23
13	UPS1	0.04634299	0.0017	190.65
14	EPS2	0.07617730	0.0300	176.64
15	MU2	0.07768947	0.1067	203.23
16	N2	0.07899922	0.4333	270.79
17	M2	0.08051139	1.9704	289.46
18	L2	0.08202356	0.0896	283.31
19	S2	0.08333331	0.7365	335.33
20	K2	0.08356148	0.1989	335.33 INF FR S2
21	ETA2	0.08507365	0.0297	7.78
22	M03	0.11924207	0.0011	157.13
23	M3	0.12076712	0.0187	76.66
24	MK3	0.12229216	0.0064	318.44
25	SK3	0.12511408	0.0055	181.99
26	MN4	0.15951067	0.0049	134.22
27	M4	0.16102278	0.0045	123.48
28	SN4	0.16233259	0.0026	280.60
29	MS4	0.16384470	0.0036	28.31
30	S4	0.16666669	0.0010	297.50
31	2MK5	0.20280355	0.0005	56.75
32	2SK5	0.20844740	0.0005	262.78
33	2MN6	0.24002206	0.0019	300.25
34	M6	0.24153417	0.0019	292.98
35	2MS6	0.24435616	0.0026	336.67
36	2SM6	0.24717808	0.0015	355.37
37	3MK7	0.28331494	0.0002	274.03
38	M8	0.32204562	0.0005	303.78

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #2 LEMIEUX ISLAND

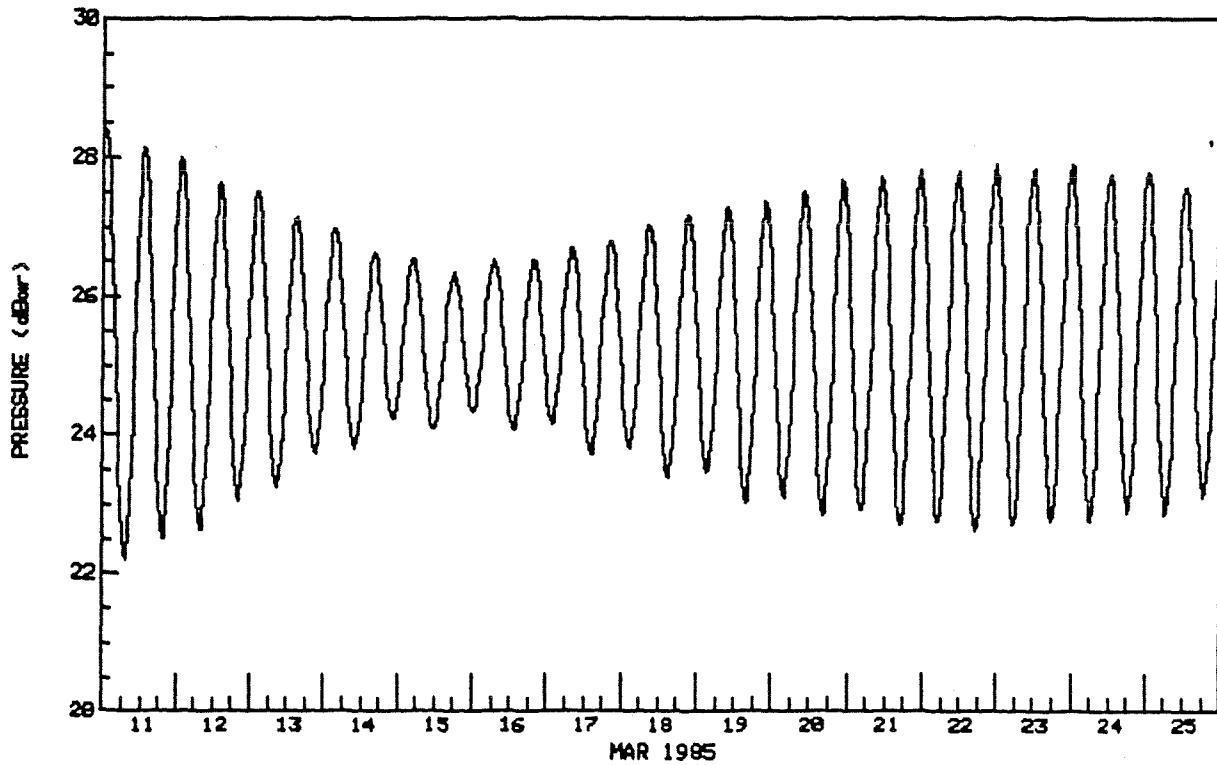
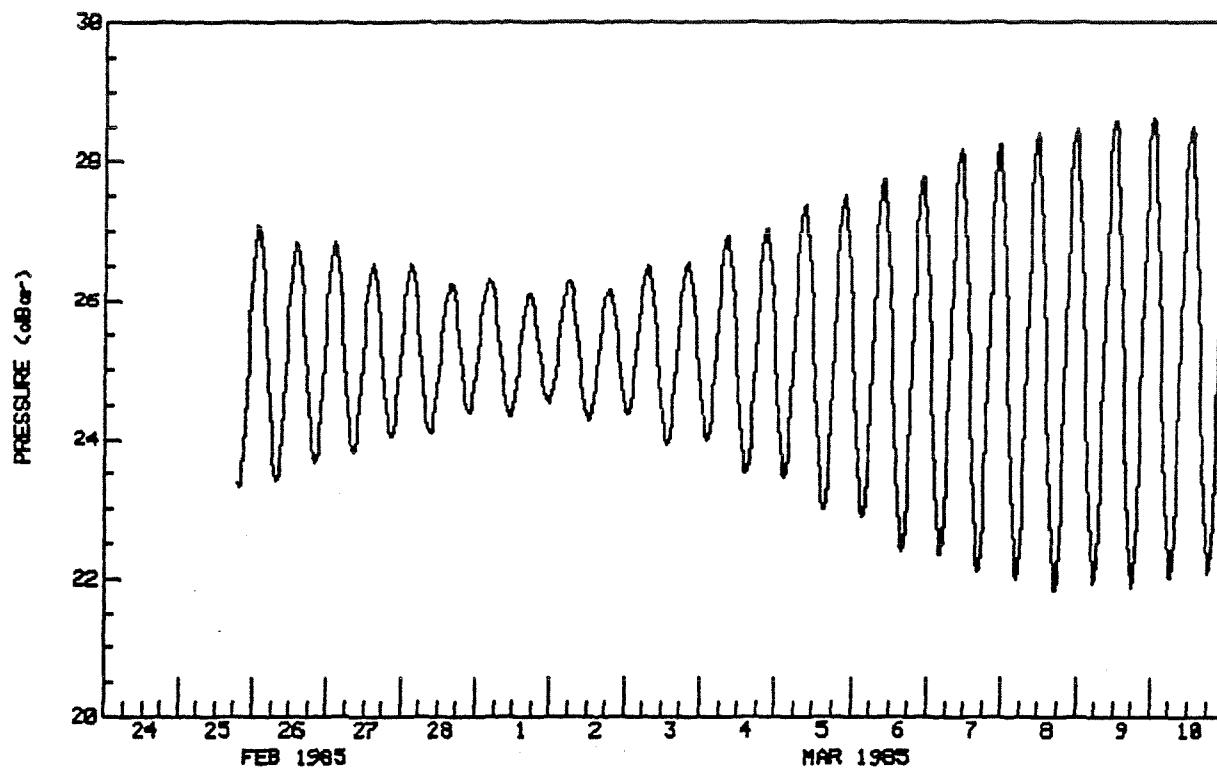
64° 36' 36"N 65° 9' 54"W

DEPTH(m) 25

AANDERAA TG3 #332

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #2 LEMIEUX ISLAND

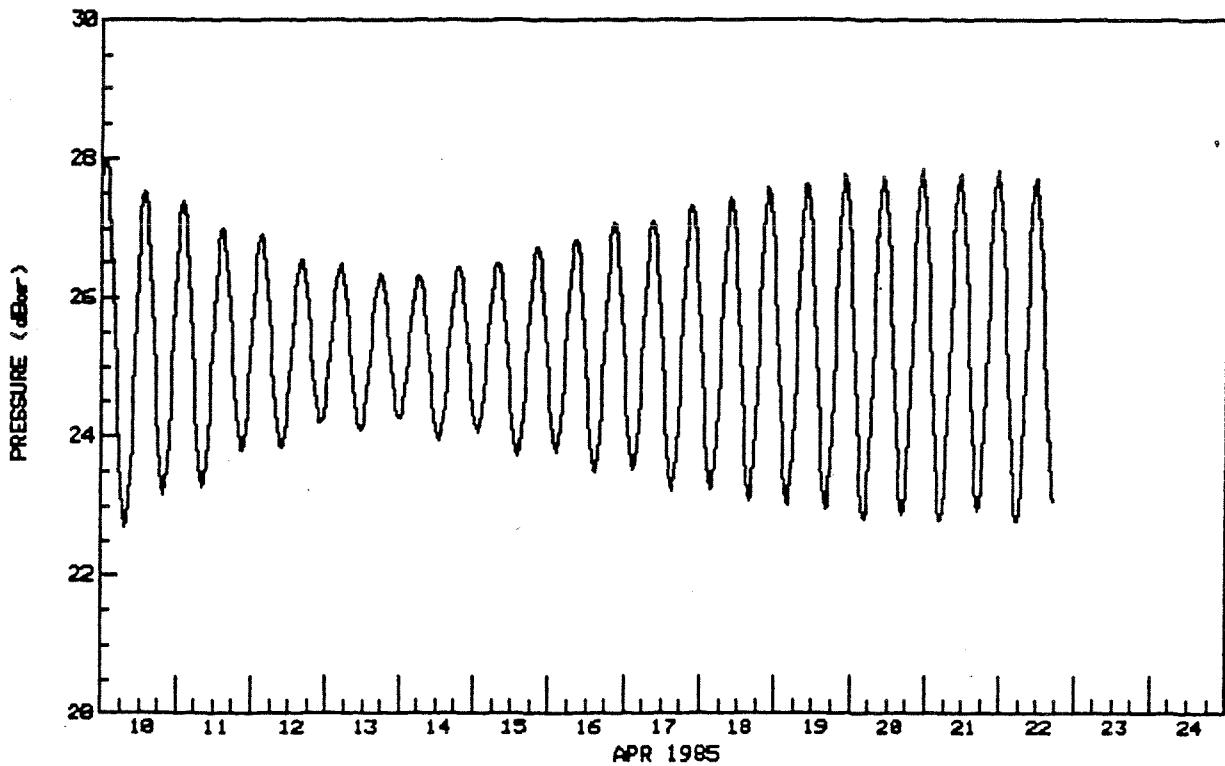
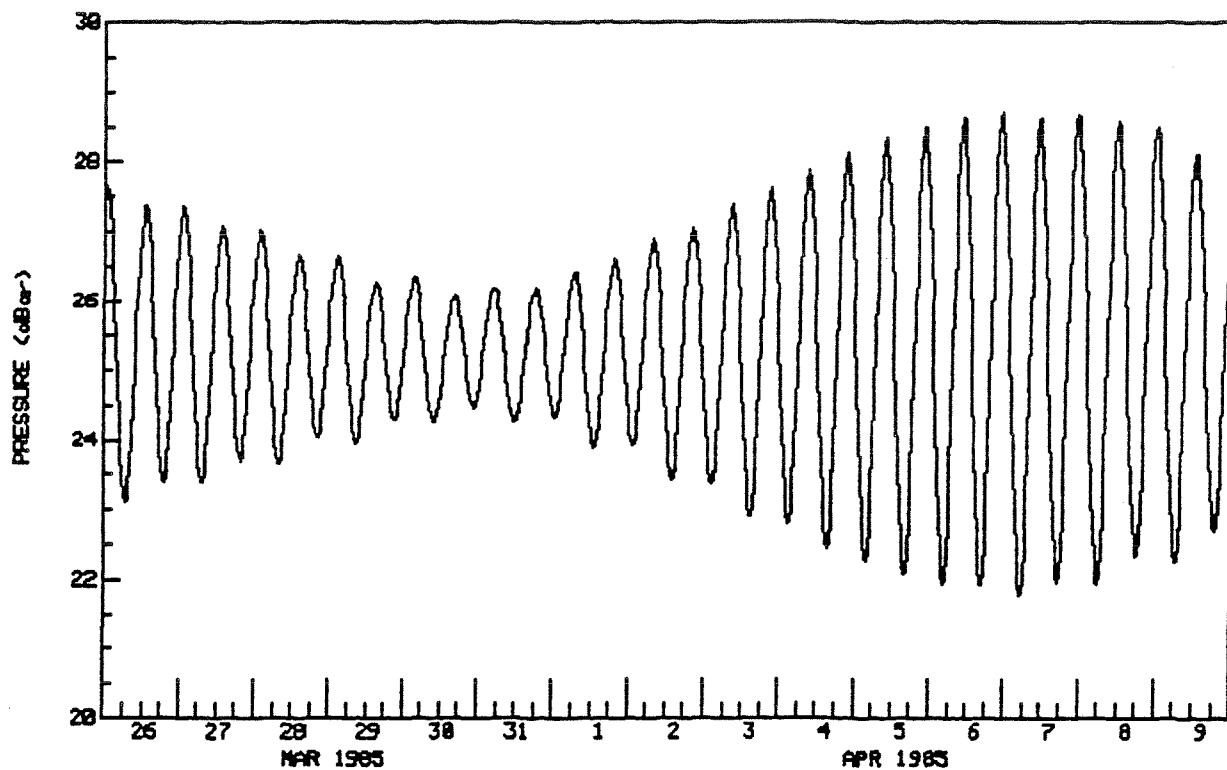
64 36' 36"N 65 9' 54"W

DEPTH(m) 25

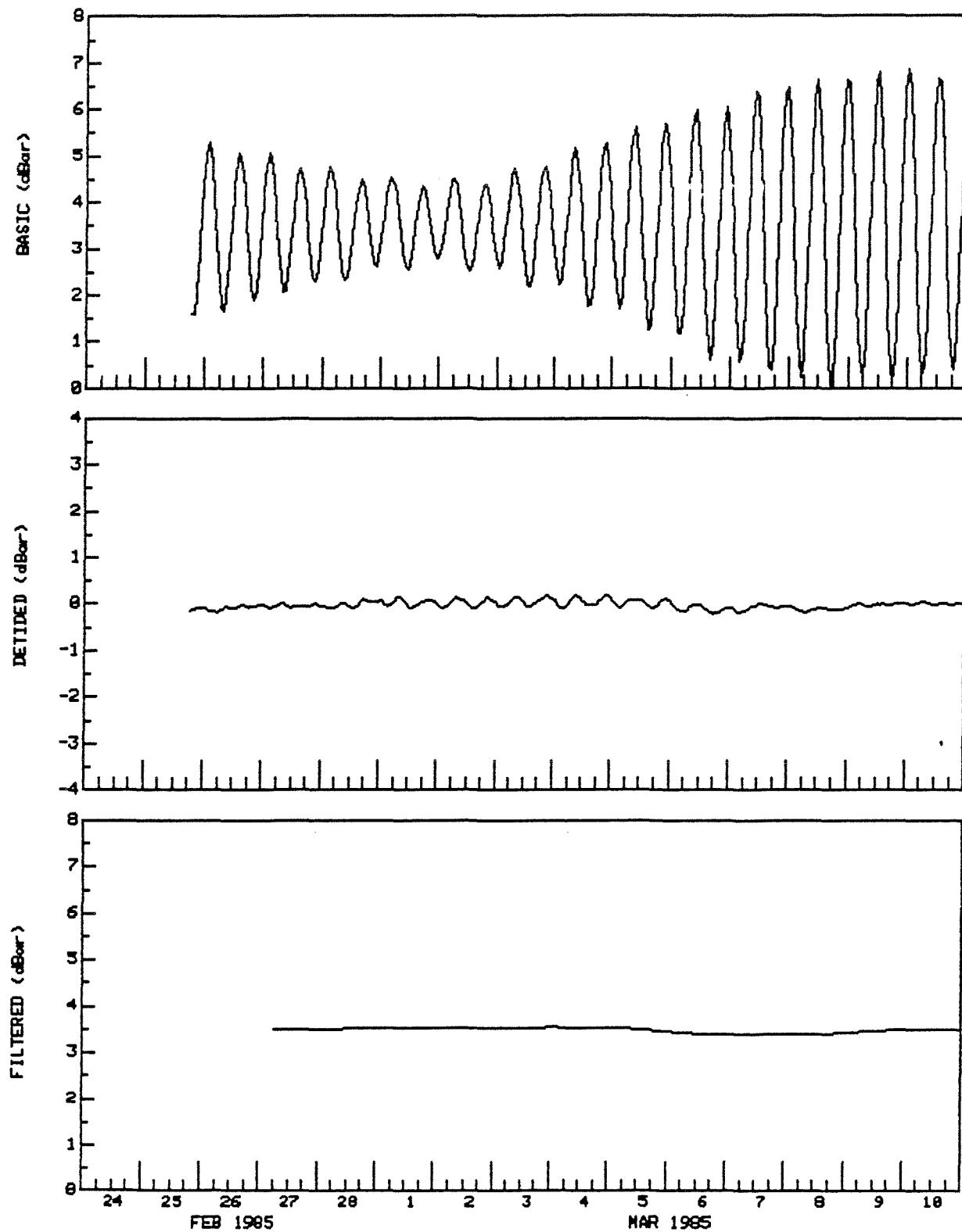
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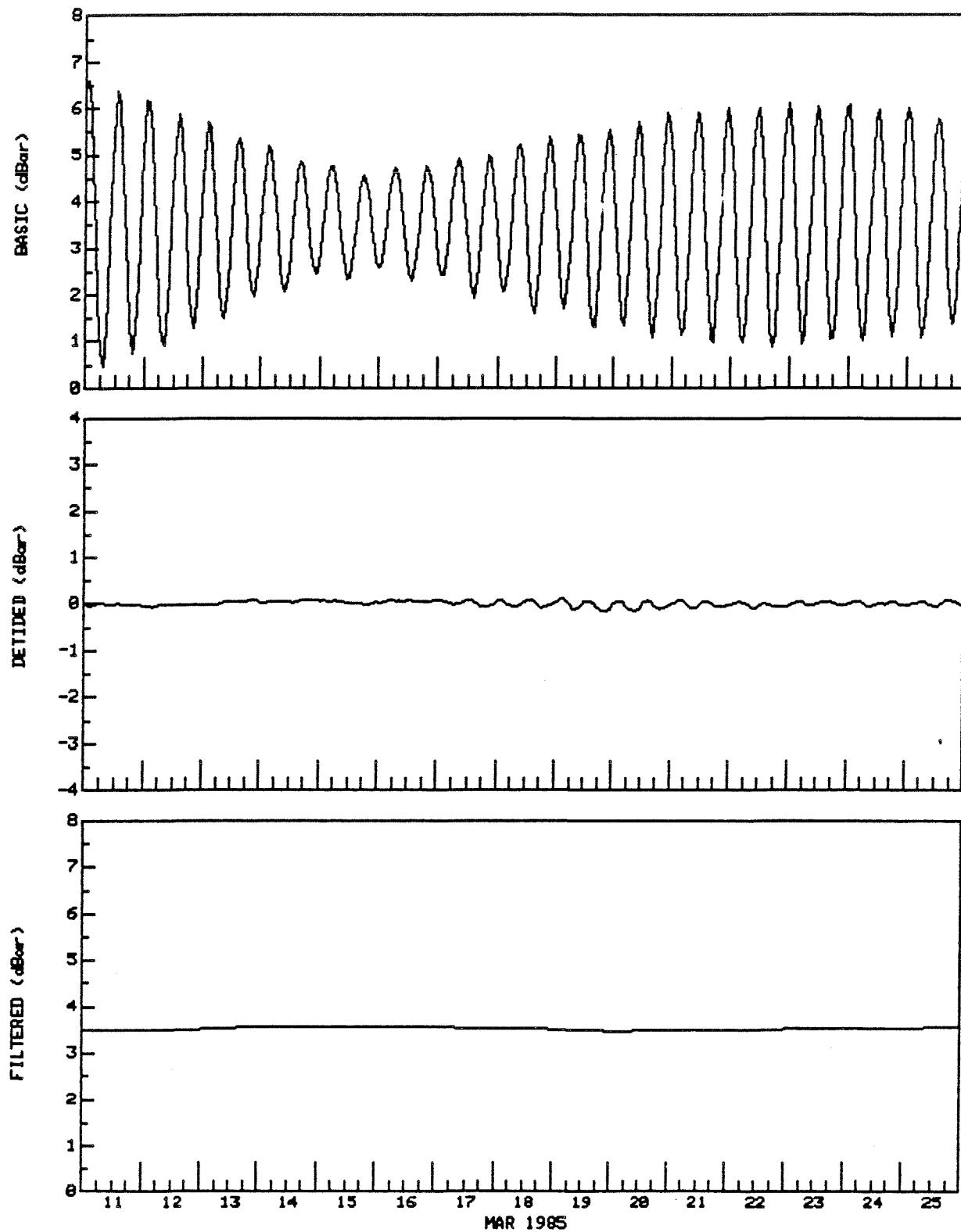
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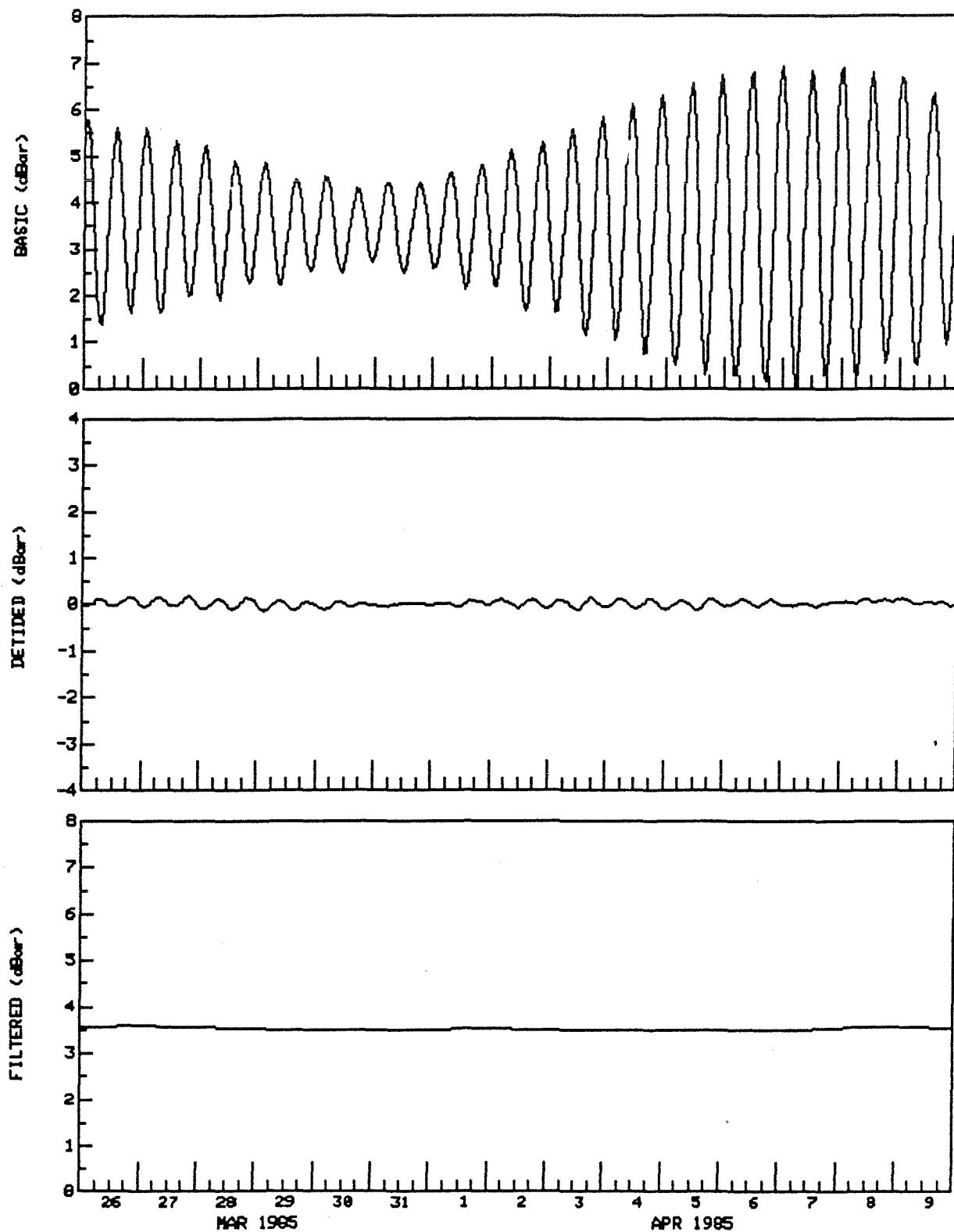
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #2 LEMIEUX ISLAND DEPTH(m) 25 TYPE DESPIKED
64 36' 36"N 65 9' 54"W AANDERAA TG3 #332 DT(min) 60



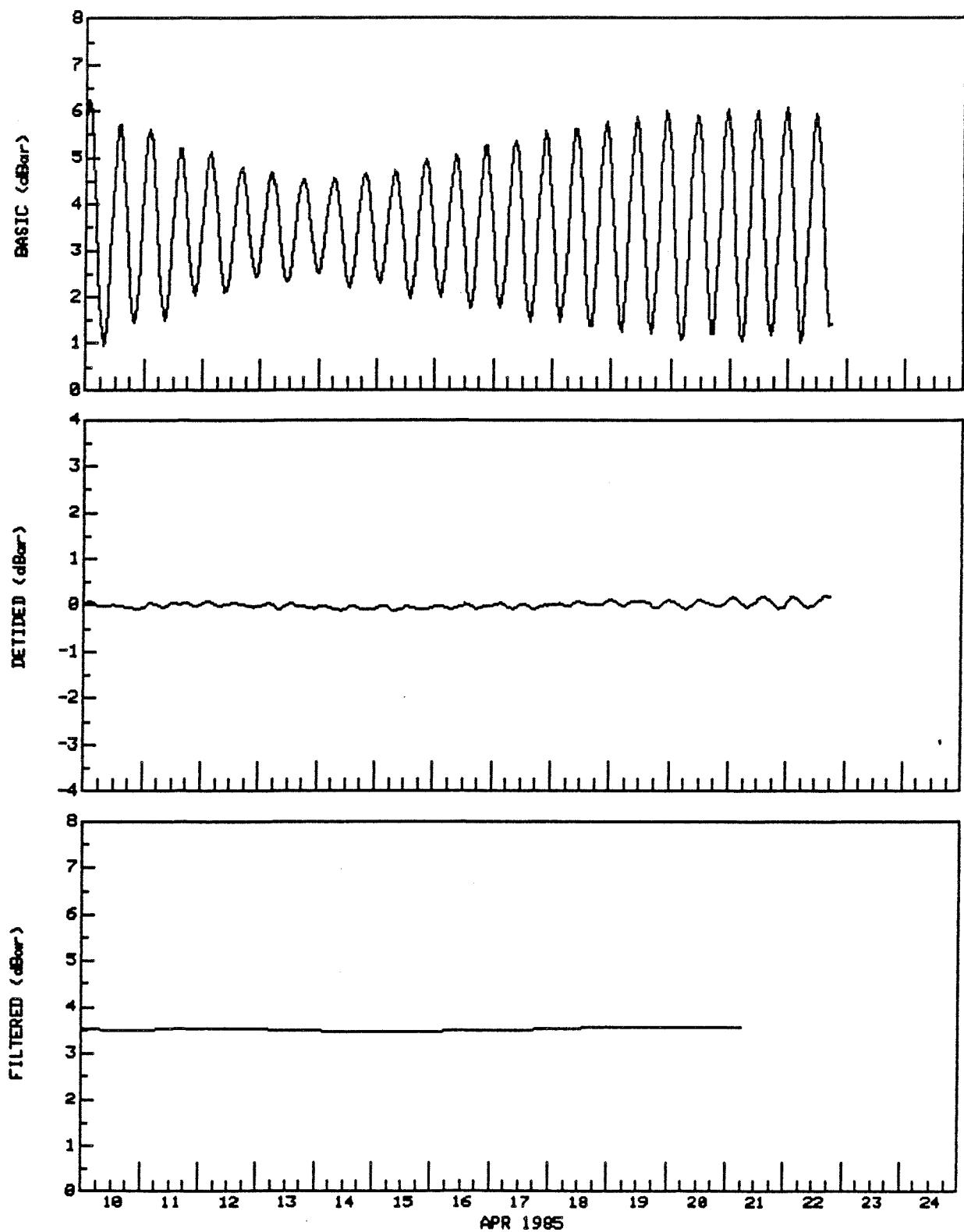
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #2 LEMIEUX ISLAND DEPTH(m) 25 TYPE DESPIKED
64 36' 36"N 65 9' 54"W AANDERAA TG3 #332 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #2 LEMIEUX ISLAND DEPTH(m) 25 TYPE DESPIKED
64 36' 36"N 65 9' 54"W AANDERAA TG3 #332 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #2 LEMIEUX ISLAND DEPTH(m) 25 TYPE DESPIKED
64 36' 36"N 65 9' 54"W AANDERAA TG3 #332 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 4****TIDE GAUGE # 343**

Site # 4: Anjijak Island

Position: 65°35'30"N 62°16'48"W

Tide Gauge #: Aanderaa WLR5 #343

Date/Time of Deployment: 1985/03/01 16:39

Date/Time of Recovery: 1985/04/25 4:52

Sampling Interval: 30 min

Number of Records on Tape: 2797

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	4.717	2.379	1.090
Detided Pressure	-0.890	0.180	0.001	0.072
Filtered Pressure	2.244	2.443	2.378	0.042

Data Quality: Timing 25 seconds slow

Very spiky data, with small spikes at amplitude peaks

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #4 ANGIJAK ISLAND LAT: 65 35 30.0 N
 DEPTH: 30 M LONG: 62 16 48.0 W
 START: 1700Z 1/ 3/85 END: 1400Z 25/ 4/85
 NO.OBS.= 1318 NO.PTS.ANAL.= 1318 MIDPT: 300Z 29/ 3/85

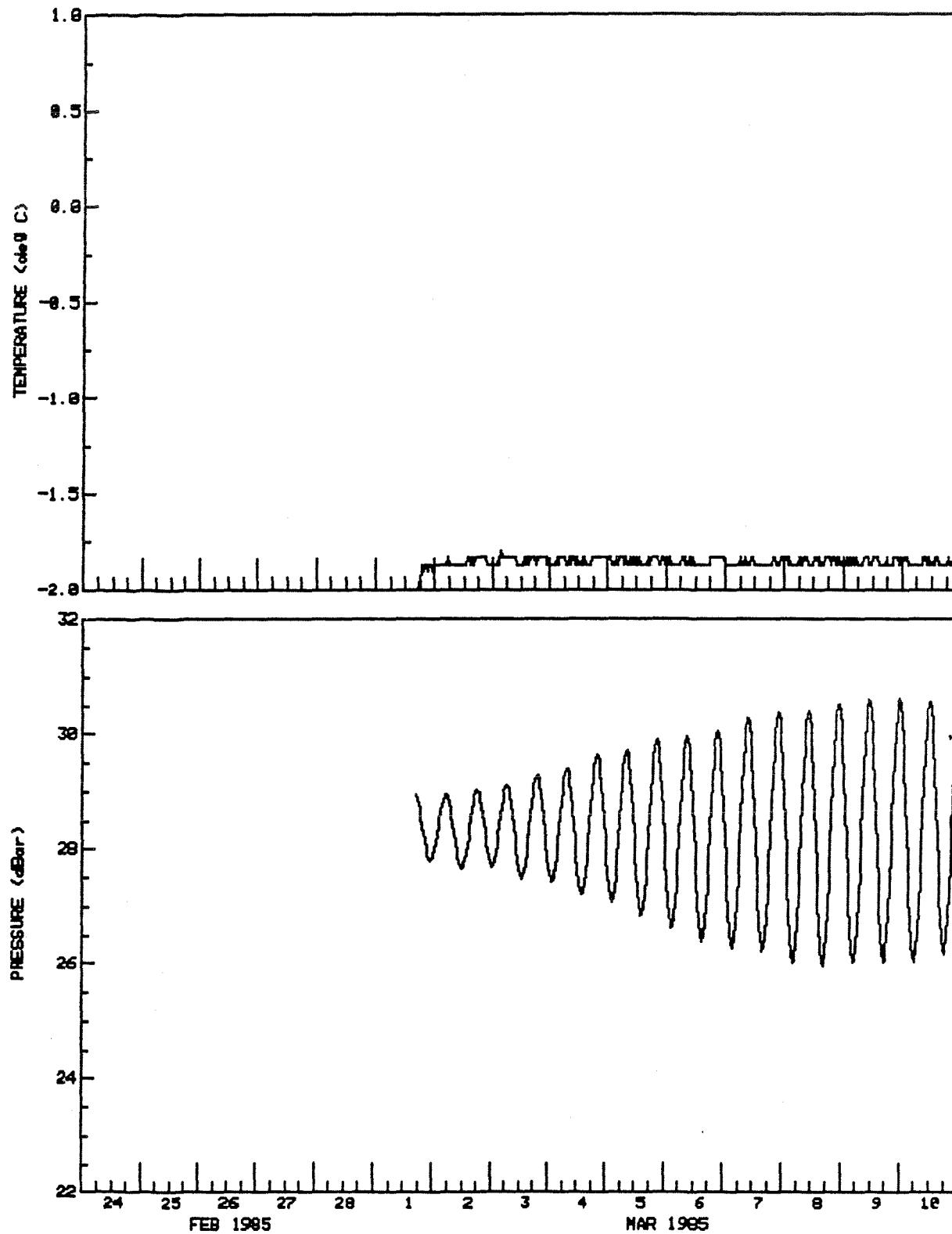
	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	2.3616	0.00
2	MM	0.00151215	0.0253	181.23
3	MSF	0.00282193	0.0218	160.42
4	ALP1	0.03439657	0.0024	69.77
5	2Q1	0.03570635	0.0057	38.63
6	Q1	0.03721850	0.0070	64.72
7	O1	0.03873065	0.0192	35.79
8	N01	0.04026860	0.0023	87.57
9	P1	0.04155259	0.0163	8.14 INF FR K1
10	K1	0.04178075	0.0494	8.14
11	J1	0.04329290	0.0042	82.72
12	001	0.04483084	0.0026	28.71
13	UPS1	0.04634299	0.0040	231.00
14	EPS2	0.07617730	0.0190	122.52
15	MU2	0.07768947	0.0680	199.48
16	N2	0.07899922	0.3118	249.82
17	M2	0.08051139	1.3261	271.57
18	L2	0.08202356	0.0393	234.66
19	S2	0.08333331	0.4997	316.37
20	K2	0.08356148	0.1349	316.37 INF FR S2
21	ETA2	0.08507365	0.0233	22.75
22	M03	0.11924207	0.0034	347.52
23	M3	0.12076712	0.0107	24.62
24	MK3	0.12229216	0.0033	17.57
25	SK3	0.12511408	0.0037	135.68
26	MN4	0.15951067	0.0038	309.42
27	M4	0.16102278	0.0027	335.52
28	SN4	0.16233259	0.0033	265.35
29	MS4	0.16384470	0.0026	201.36
30	S4	0.16666669	0.0014	324.41
31	2MK5	0.20280355	0.0003	46.05
32	2SK5	0.20844740	0.0046	355.90
33	2MN6	0.24002206	0.0018	308.68
34	M6	0.24153417	0.0033	353.13
35	2MS6	0.24435616	0.0035	139.99
36	2SM6	0.24717808	0.0020	185.68
37	3MK7	0.28331494	0.0022	157.17
38	M8	0.32204562	0.0035	332.39

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #4 ANJIJAK ISLAND
65 35' 30"N 62 16' 48"W

DEPTH(m) 28
AANDERAA WLR5 #343

TYPE DESPIKED
DT(min) 30

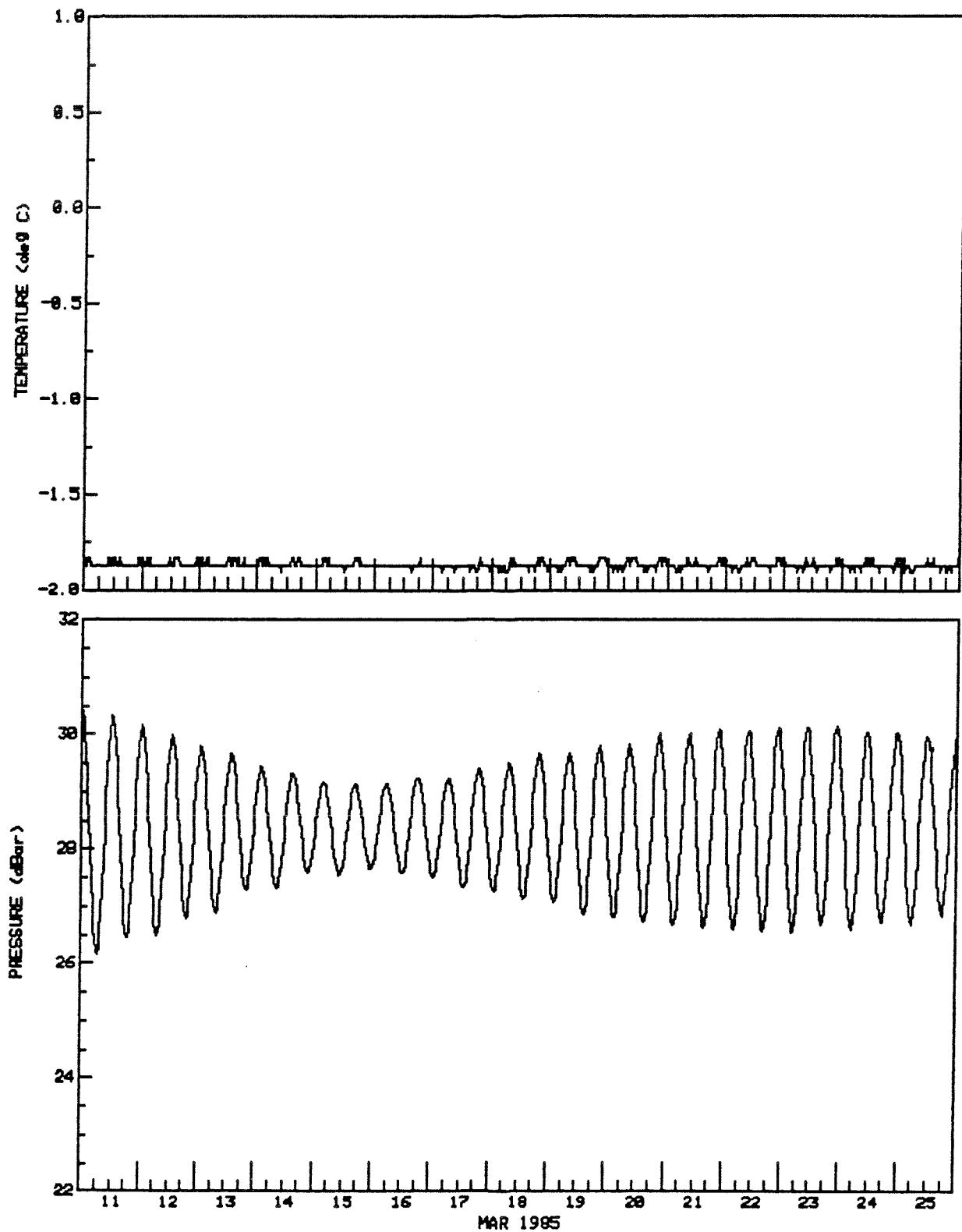


EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #4 ANJIIAK ISLAND
65 35' 30"N

DEPTH(m) 28

AANDERAA WLR5 #343

TYPE DESPIKED
DT(min) 30

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #4 ANJIJAK ISLAND

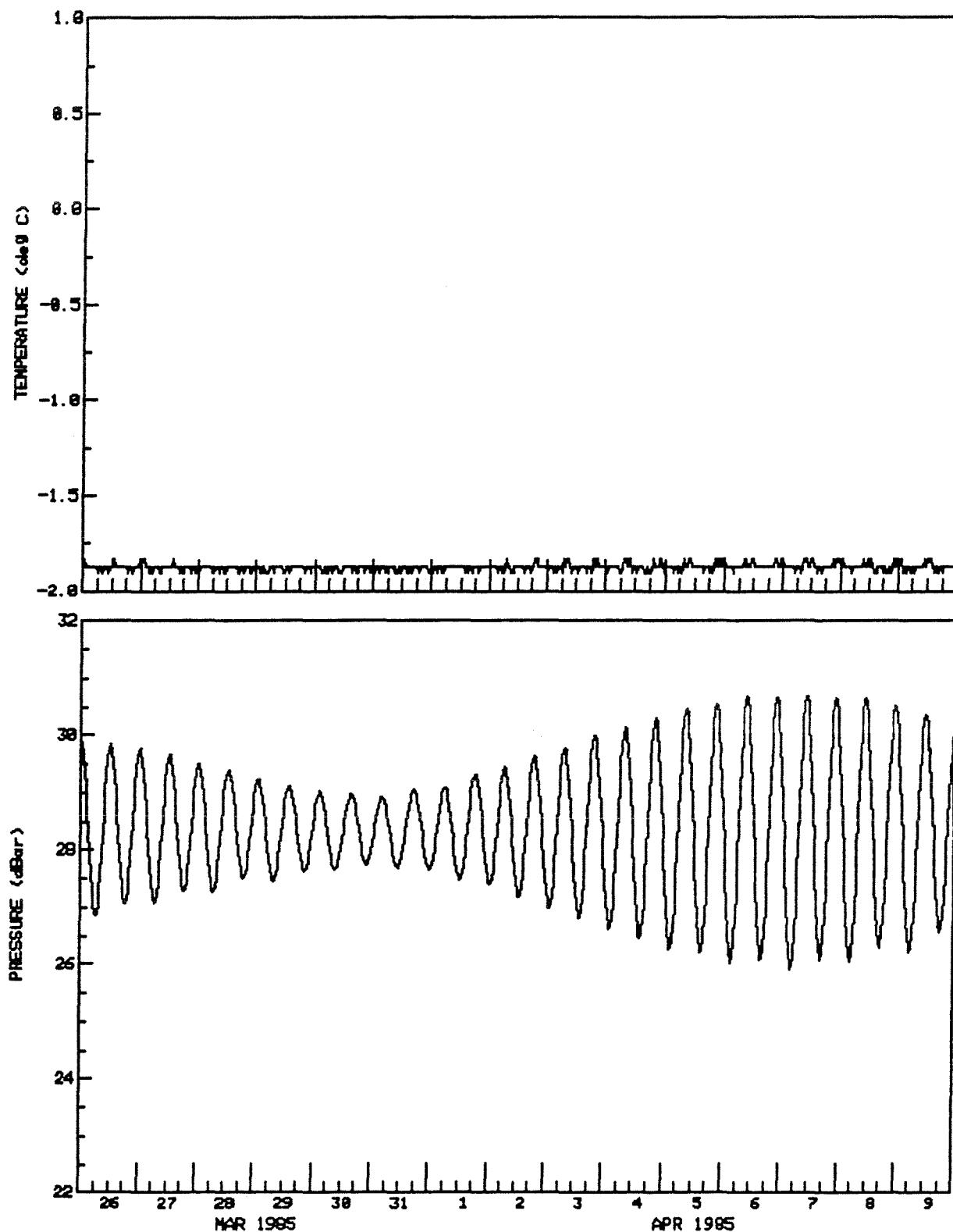
65 35' 30"N 62 16' 48"W

DEPTH(m) 28

AANDERAA WLR5 #343

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #4 ANJIJAK ISLAND

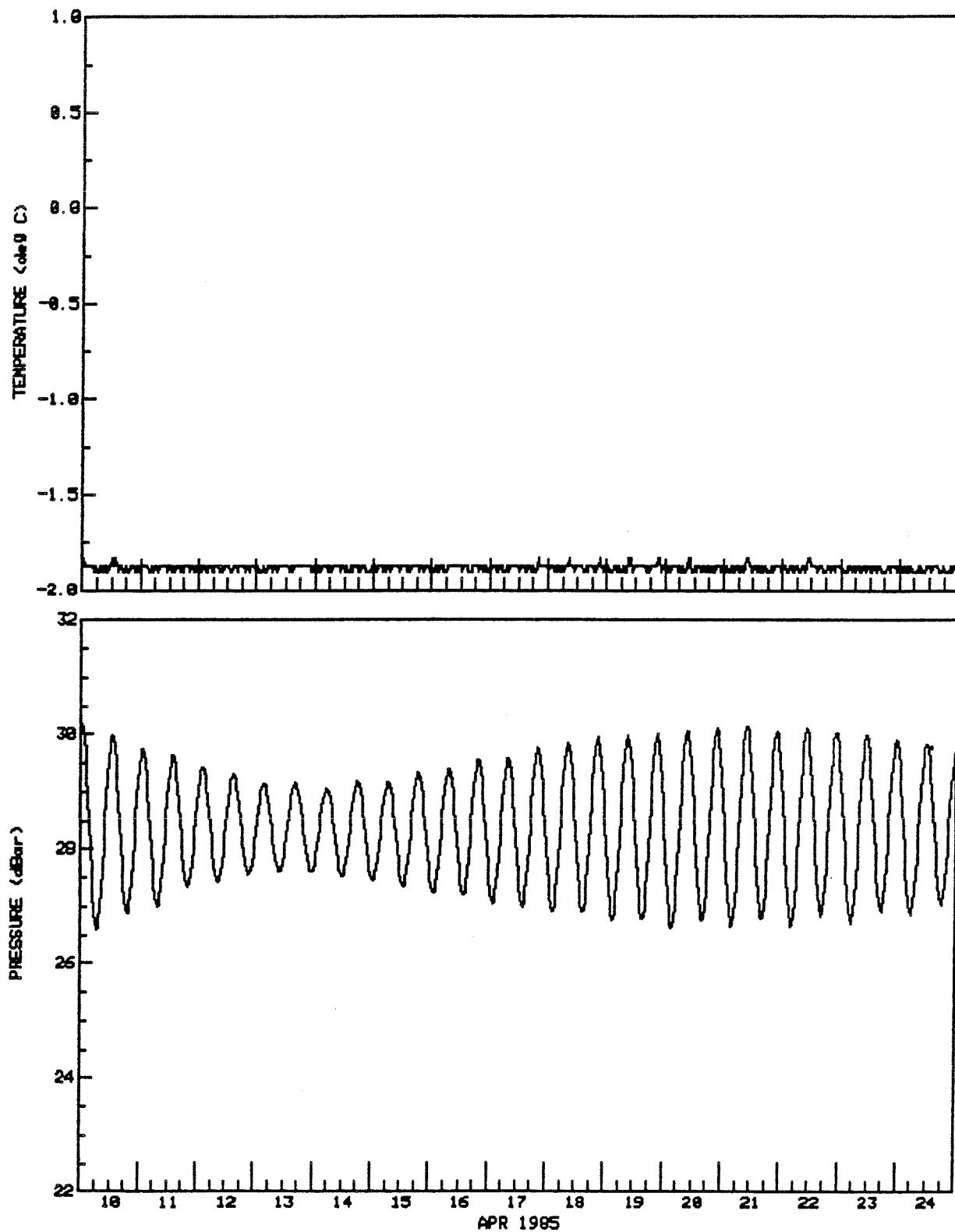
65 35' 30"N 62 16' 48"W

DEPTH(m) 28

AANDERAA WLR5 #343

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #4 ANJIJAK ISLAND

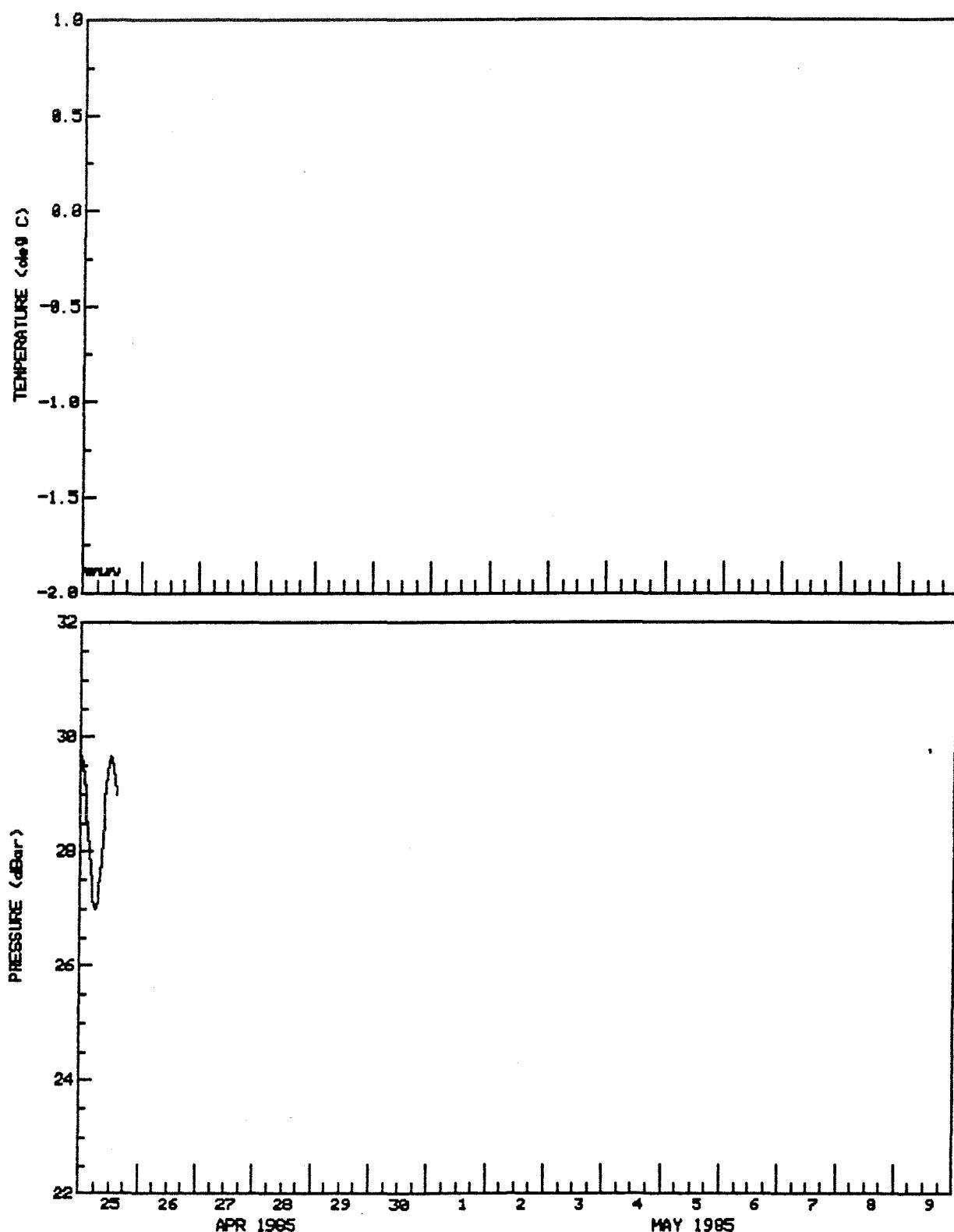
65 35' 30"N 62 16' 48"W

DEPTH(m) 28

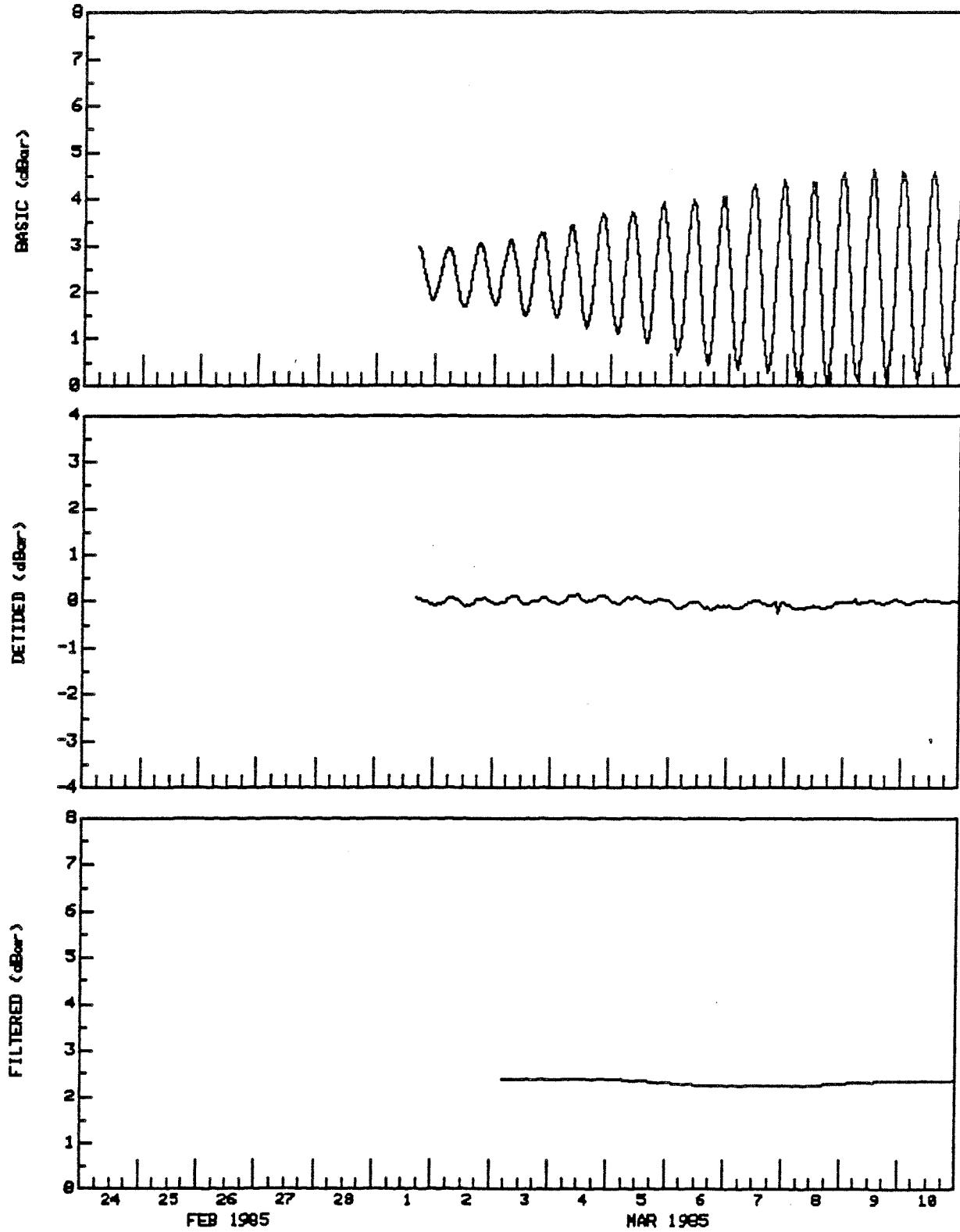
AANDERAA WLR5 #343

TYPE DESPIKED

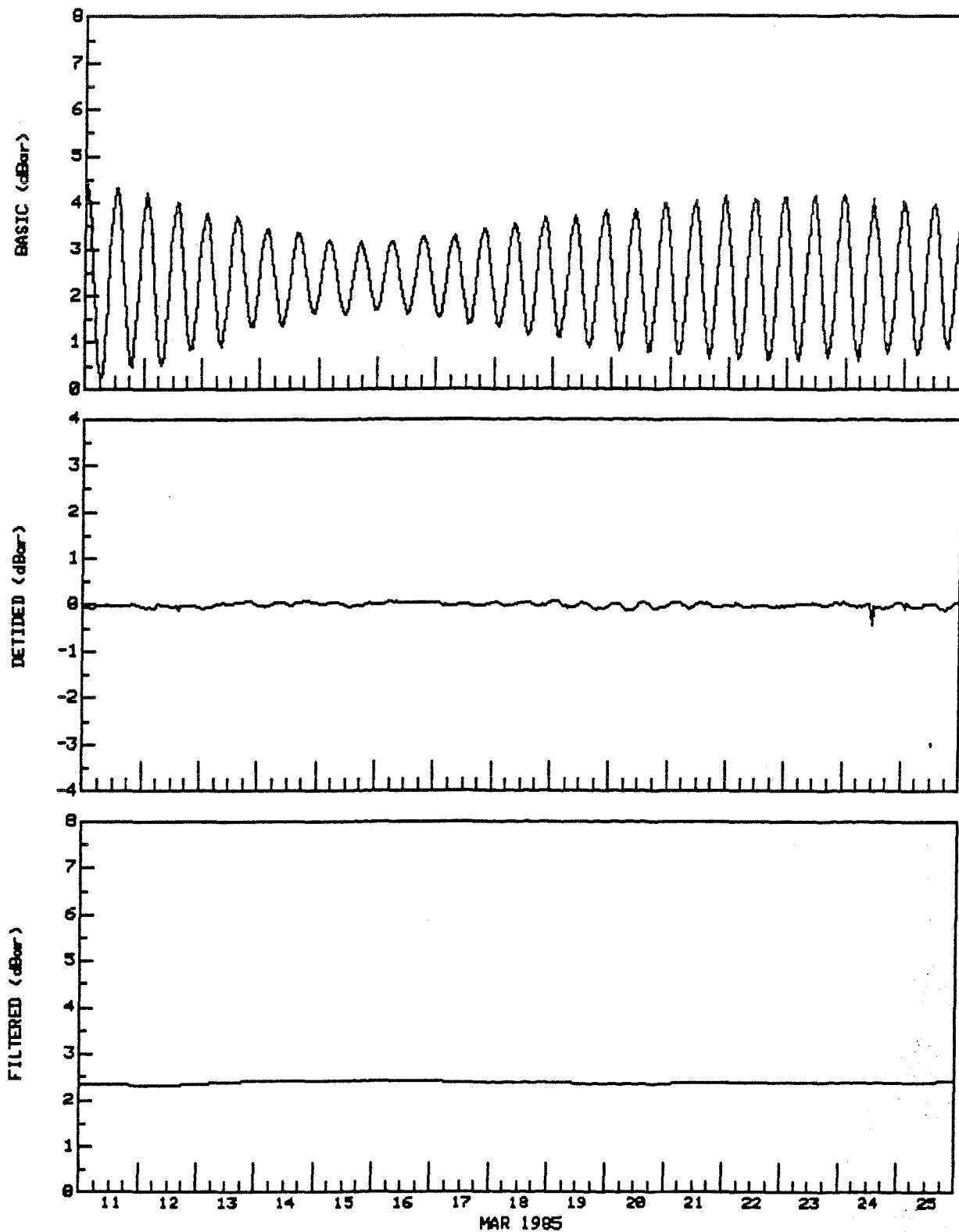
DT(min) 30



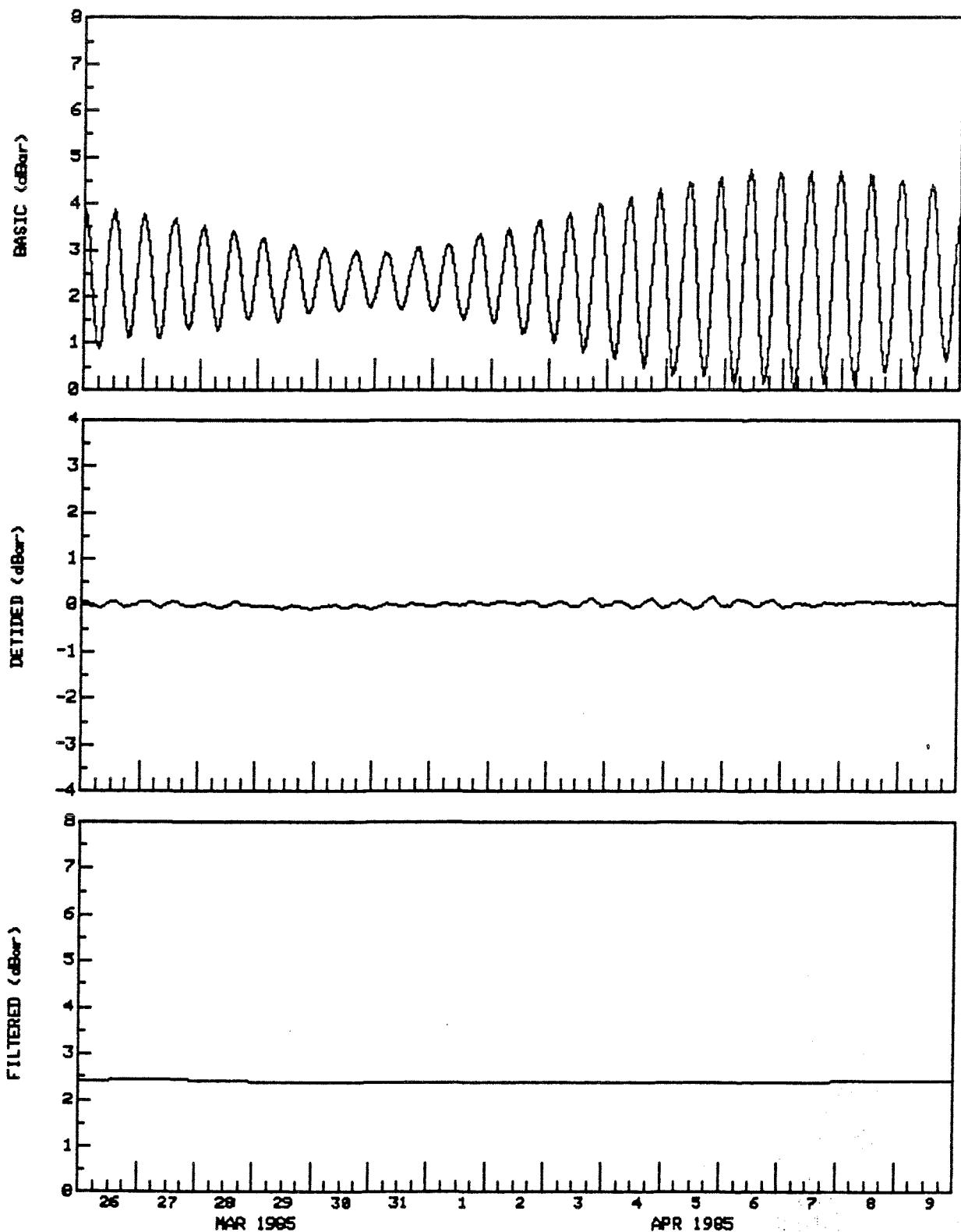
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #4 ANJIJAK ISLAND DEPTH(m) 28 TYPE DESPIKED
65 35' 30"N 62 16' 48"W AANDERAA WLR5 #343 DT(min) 60



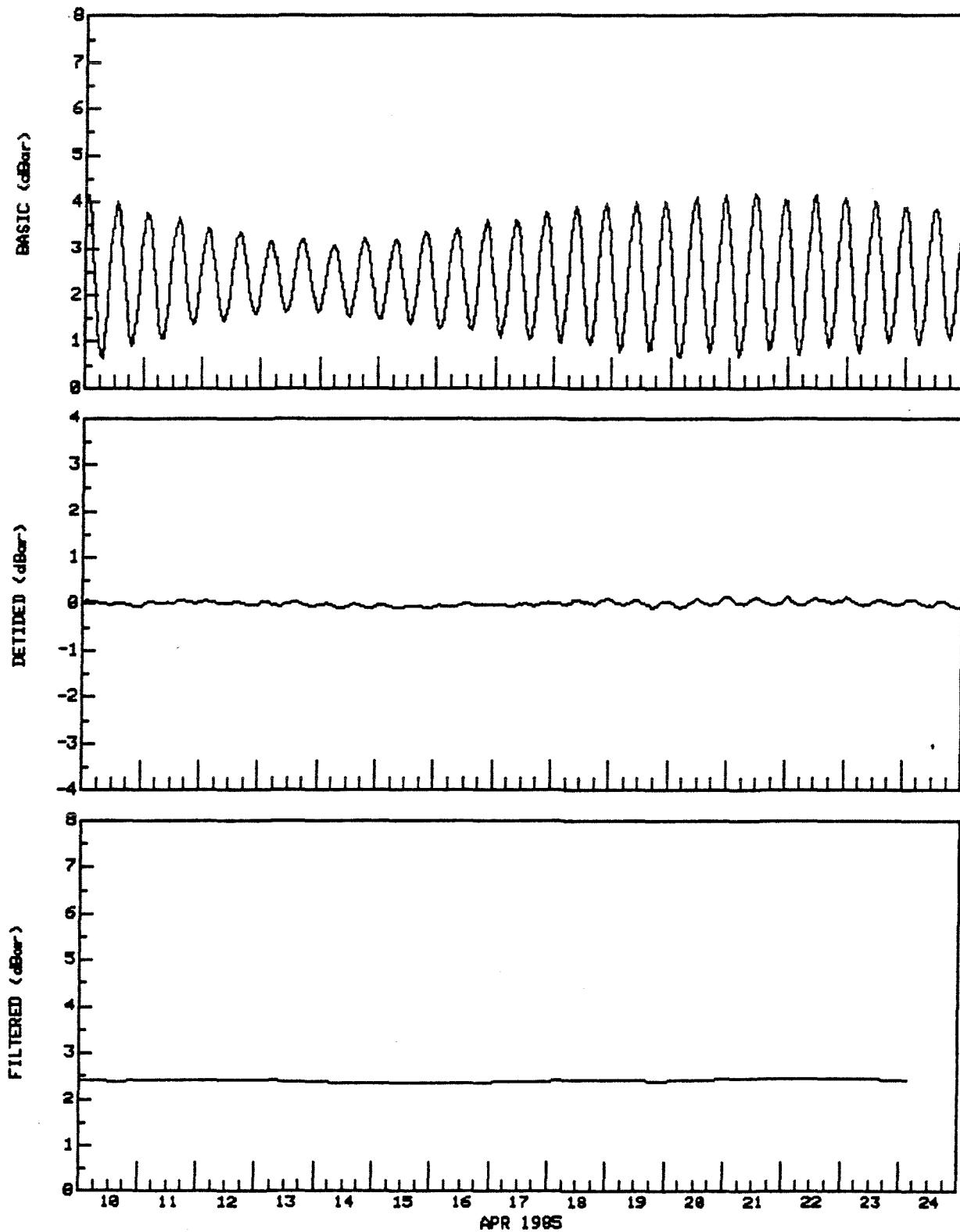
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #4 ANJIJAK ISLAND DEPTH(m) 28 TYPE DESPIKED
65 35' 30"N 62 16' 48"W AANDERAA WLR5 #343 DT(min) 60



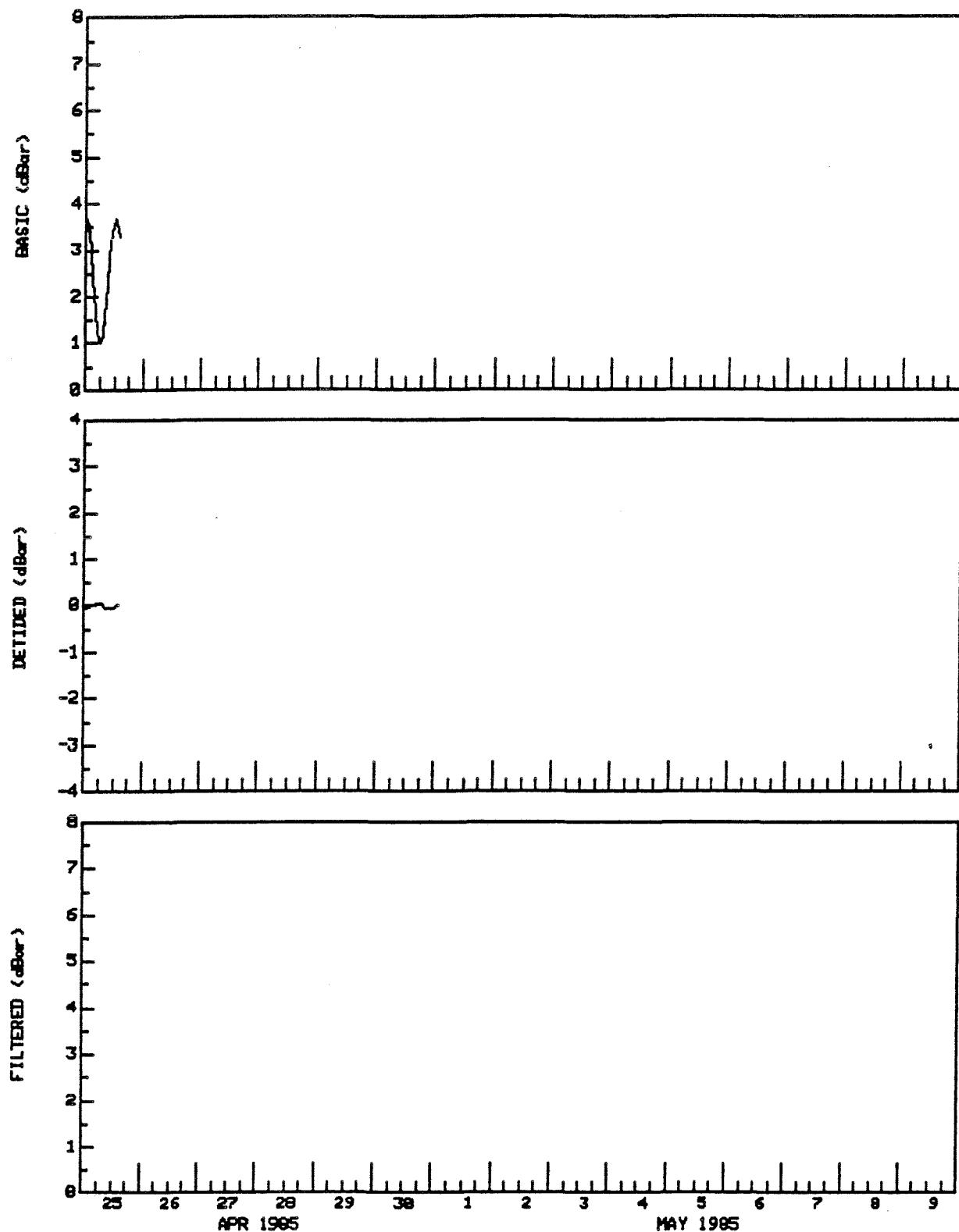
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #4 ANJIJAK ISLAND DEPTH(m) 28 TYPE DESPIKED
65 35' 30"N 62 16' 48"W AANDERAA WLR5 #343 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #4 ANJIJAK ISLAND DEPTH(m) 28 TYPE DESPIKED
65 35' 30"N 62 16' 48"W AANDERAA WLR5 #343 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #4 ANJIJAK ISLAND DEPTH(m) 28 TYPE DESPIKED
65 35' 30"N 62 16' 48"W AANDERAA WLR5 #343 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 5****TIDE GAUGE # 380**

Site # 5: Kingniksok

Position: 65°31'12"N 67°04'42"W

Tide Gauge #: Aanderaa WLR5 #380

Date/Time of Deployment: 1985/02/25 20:47

Date/Time of Recovery: 1985/04/22 16:24

Sampling Interval: 30 min

Number of Records on Tape: 2733

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	7.673	3.861	1.710
Detided Pressure	-0.486	0.196	0.001	0.074
Filtered Pressure	3.697	3.937	3.862	0.046

Data Quality: Timing 7 seconds slow

Fairly clean record

No temperature calibration available

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #5 KINGMIKSOK LAT: 65 31 12.0 N
 DEPTH: 42 M LONG: 67 4 42.0 W
 START: 2100Z 25/ 2/85 END: 1600Z 22/ 4/85
 NO.OBS.= 1340 NO.PTS.ANAL.= 1340 MIDPT: 1800Z 25/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	3.8341	0.00
2	MM	0.00151215	0.0226	158.09
3	MSF	0.00282193	0.0157	153.65
4	ALP1	0.03439657	0.0014	251.59
5	2Q1	0.03570635	0.0004	236.86
6	Q1	0.03721850	0.0078	74.41
7	O1	0.03873065	0.0526	75.47
8	N01	0.04026860	0.0035	94.57
9	P1	0.04155259	0.0285	95.47 INF FR K1
10	K1	0.04178075	0.0863	95.47
11	J1	0.04329290	0.0066	96.78
12	001	0.04483084	0.0030	73.51
13	UPS1	0.04634299	0.0024	194.52
14	EPS2	0.07617730	0.0319	172.47
15	MU2	0.07768947	0.1126	202.79
16	N2	0.07899922	0.4796	269.31
17	M2	0.08051139	2.1824	287.77
18	L2	0.08202356	0.1014	280.20
19	S2	0.08333331	0.8208	333.59
20	K2	0.08356148	0.2216	333.59 INF FR S2
21	ETA2	0.08507365	0.0343	4.16
22	M03	0.11924207	0.0014	169.43
23	M3	0.12076712	0.0253	73.44
24	MK3	0.12229216	0.0070	329.94
25	SK3	0.12511408	0.0084	184.02
26	MN4	0.15951067	0.0113	135.01
27	M4	0.16102278	0.0145	161.44
28	SN4	0.16233259	0.0018	255.14
29	MS4	0.16384470	0.0049	328.73
30	S4	0.16666669	0.0012	37.63
31	2MK5	0.20280355	0.0005	345.06
32	2SK5	0.20844740	0.0020	160.08
33	2MN6	0.24002206	0.0020	245.41
34	M6	0.24153417	0.0055	240.54
35	2MS6	0.24435616	0.0026	280.50
36	2SM6	0.24717808	0.0021	257.72
37	3MK7	0.28331494	0.0014	107.36
38	M8	0.32204562	0.0014	291.06

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #5 KINGMIKSOK

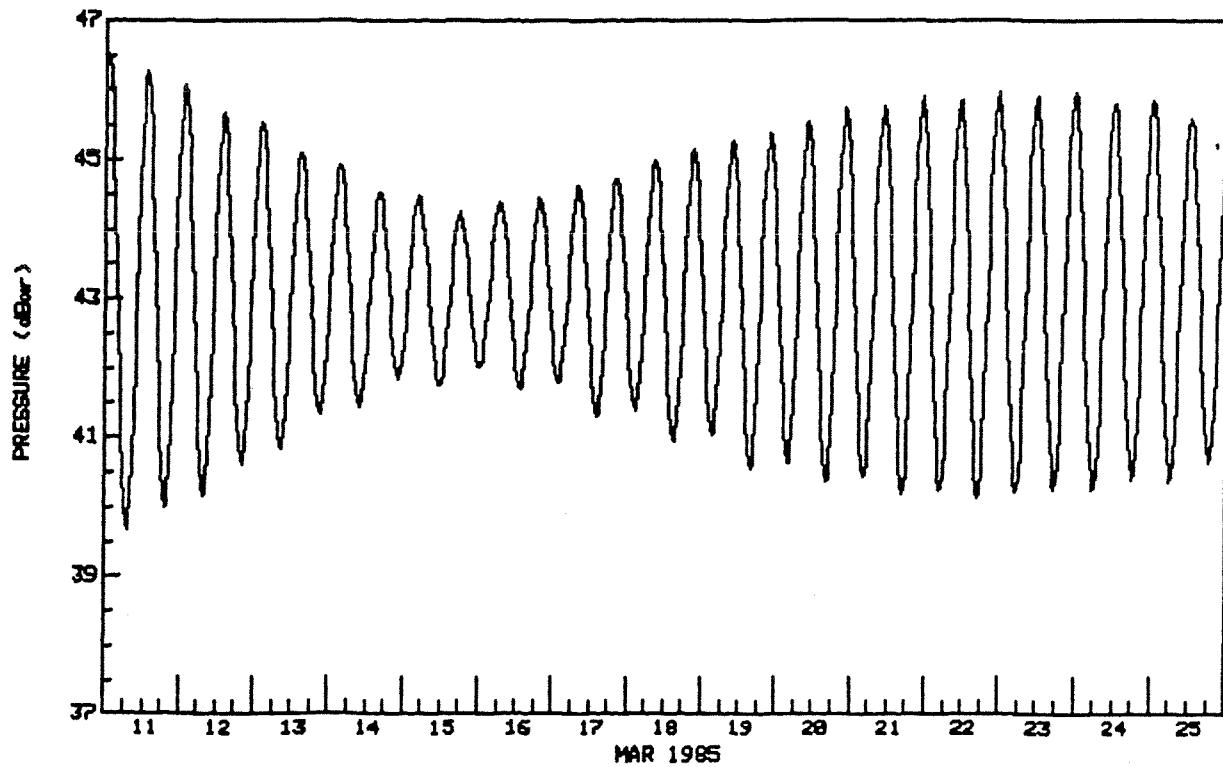
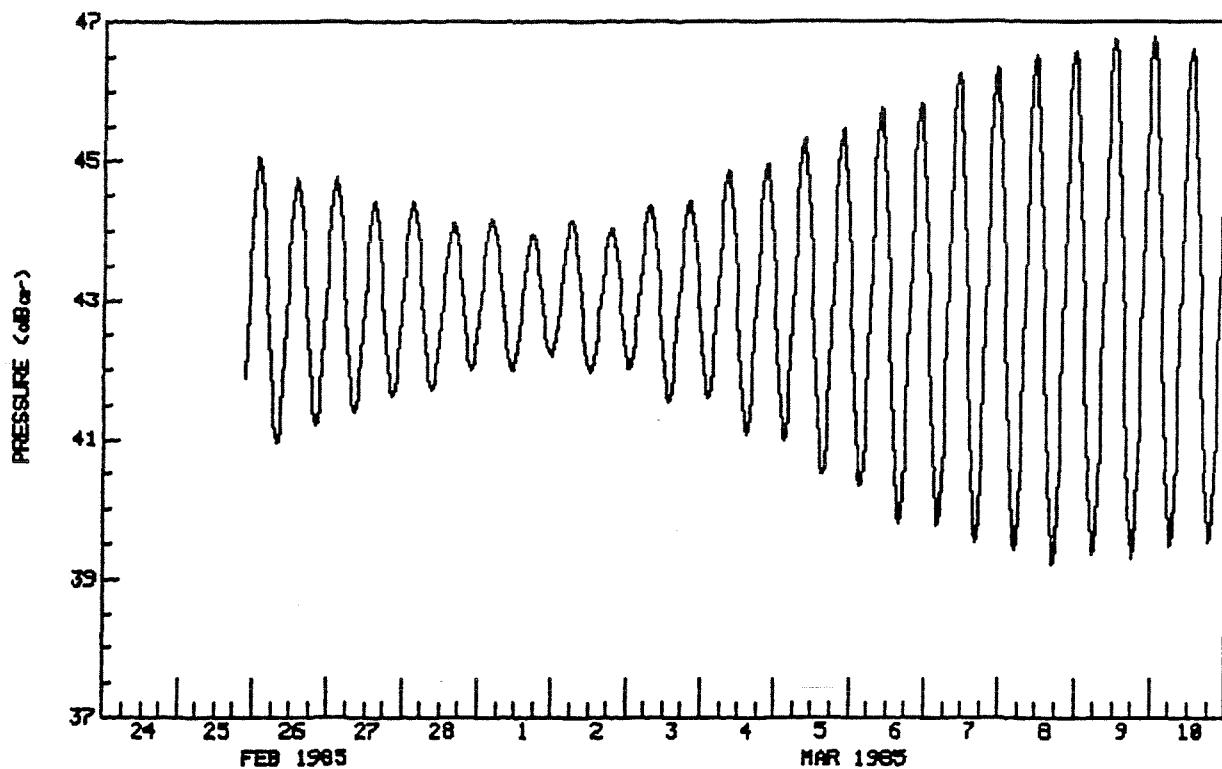
DEPTH(m) 43

TYPE DESPIKED

65 31' 12"N 67 04' 42"W

AANDERAA WLR5 #380

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #5 KINGMIKSOK

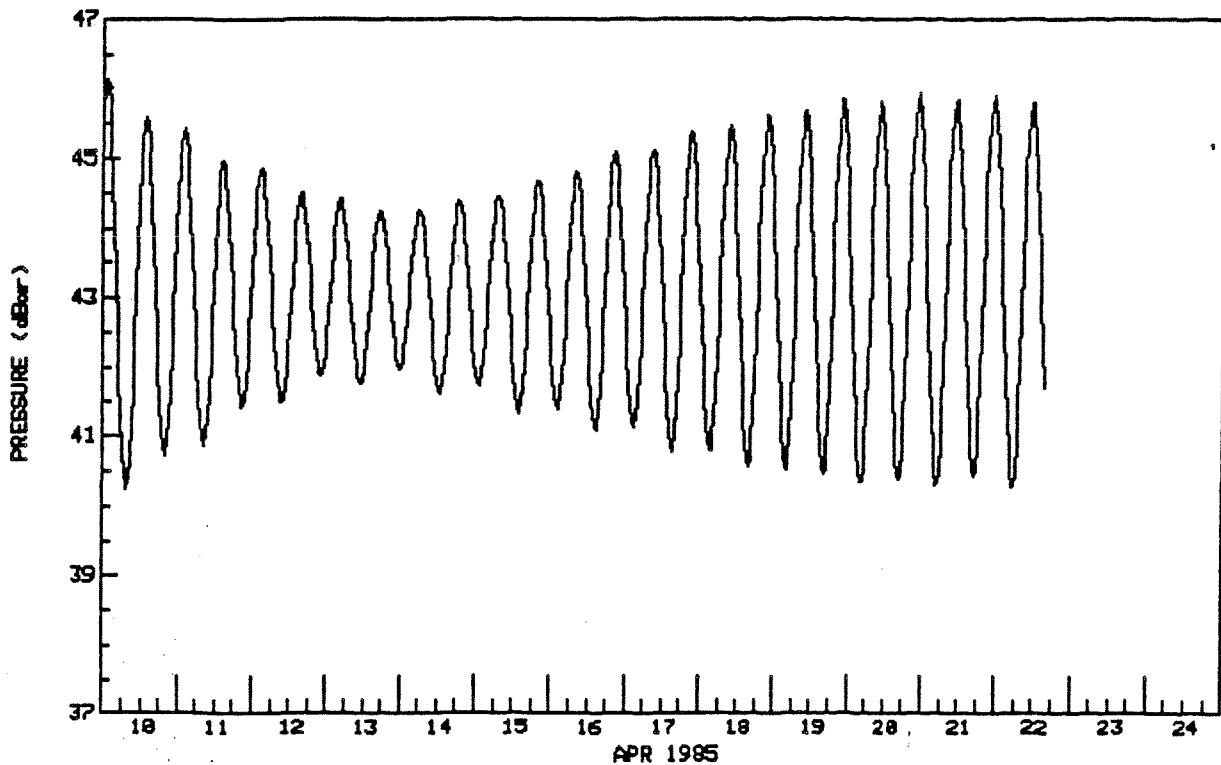
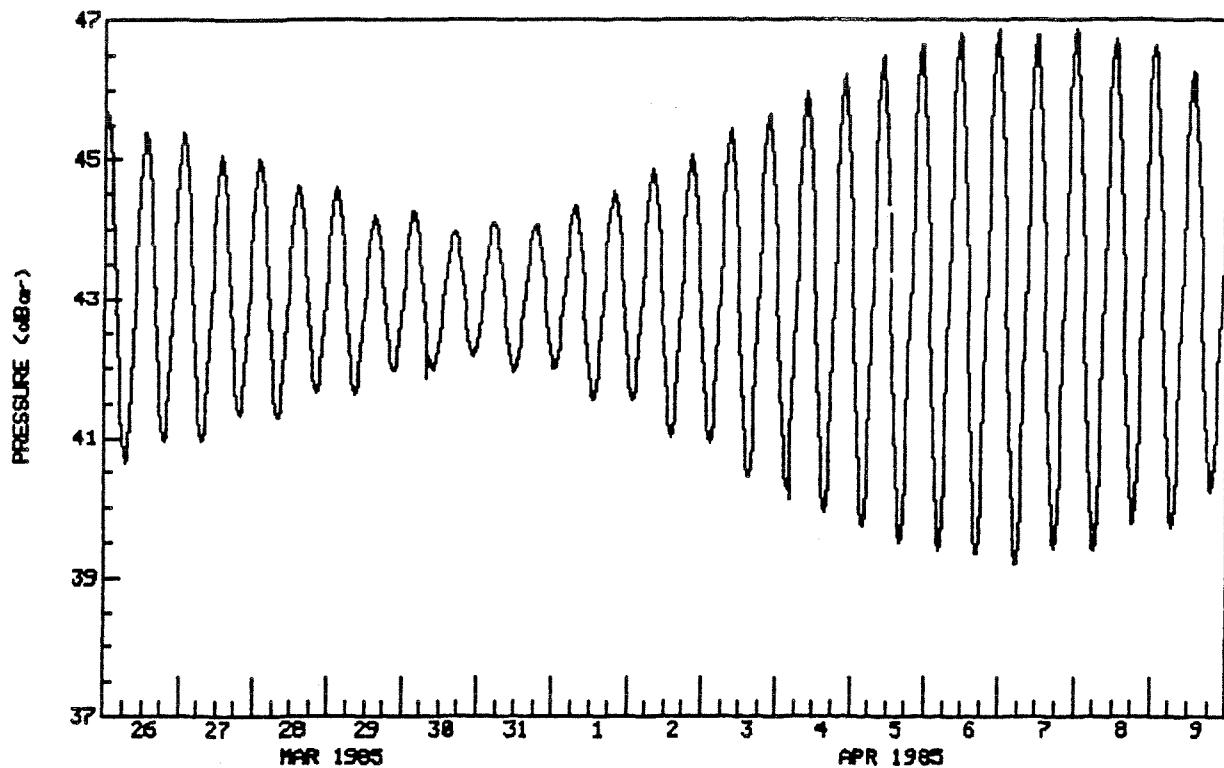
DEPTH(m) 43

TYPE DESPIKED

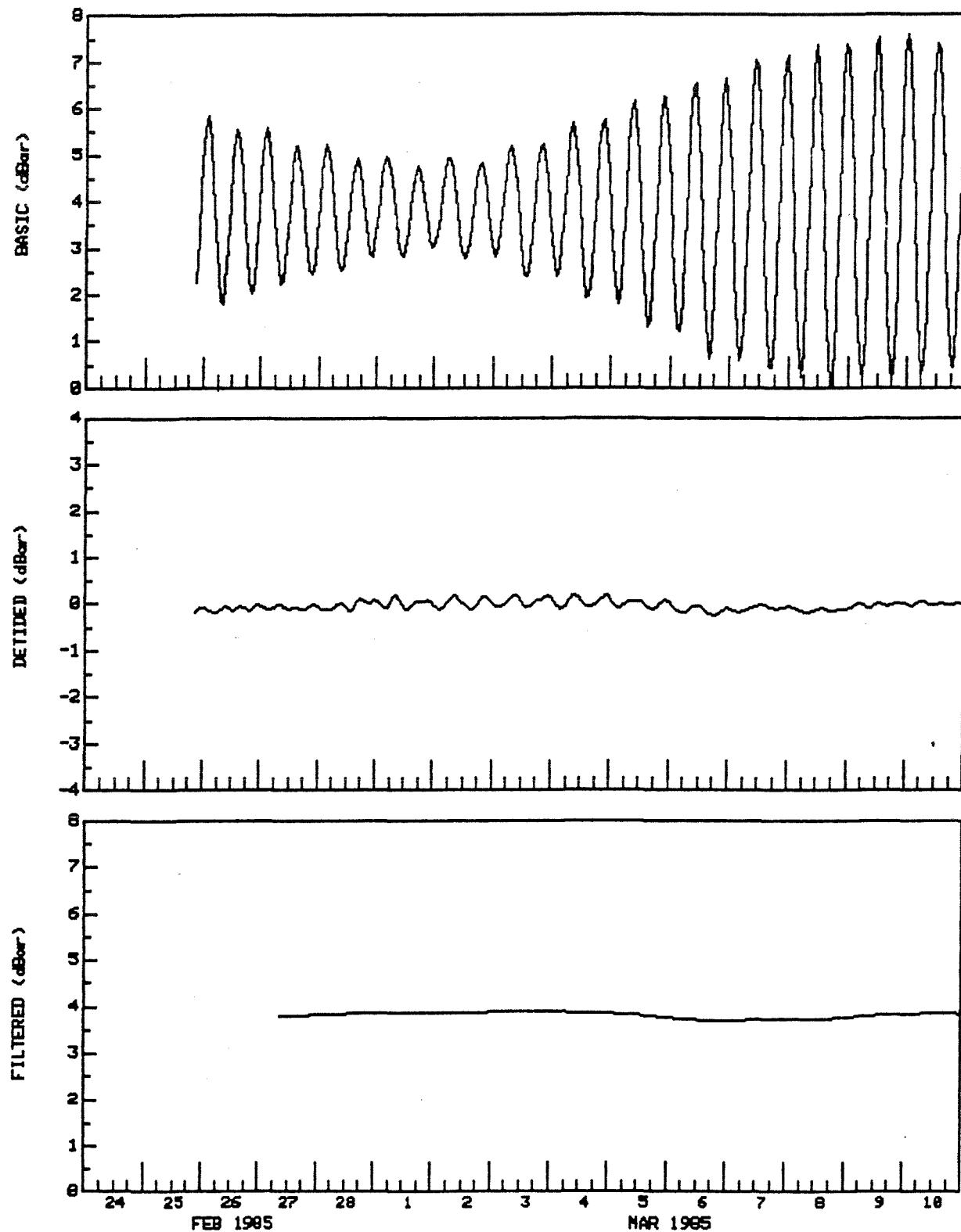
65 31' 12"N 67 04' 42"W

AANDERAA WLR5 #380

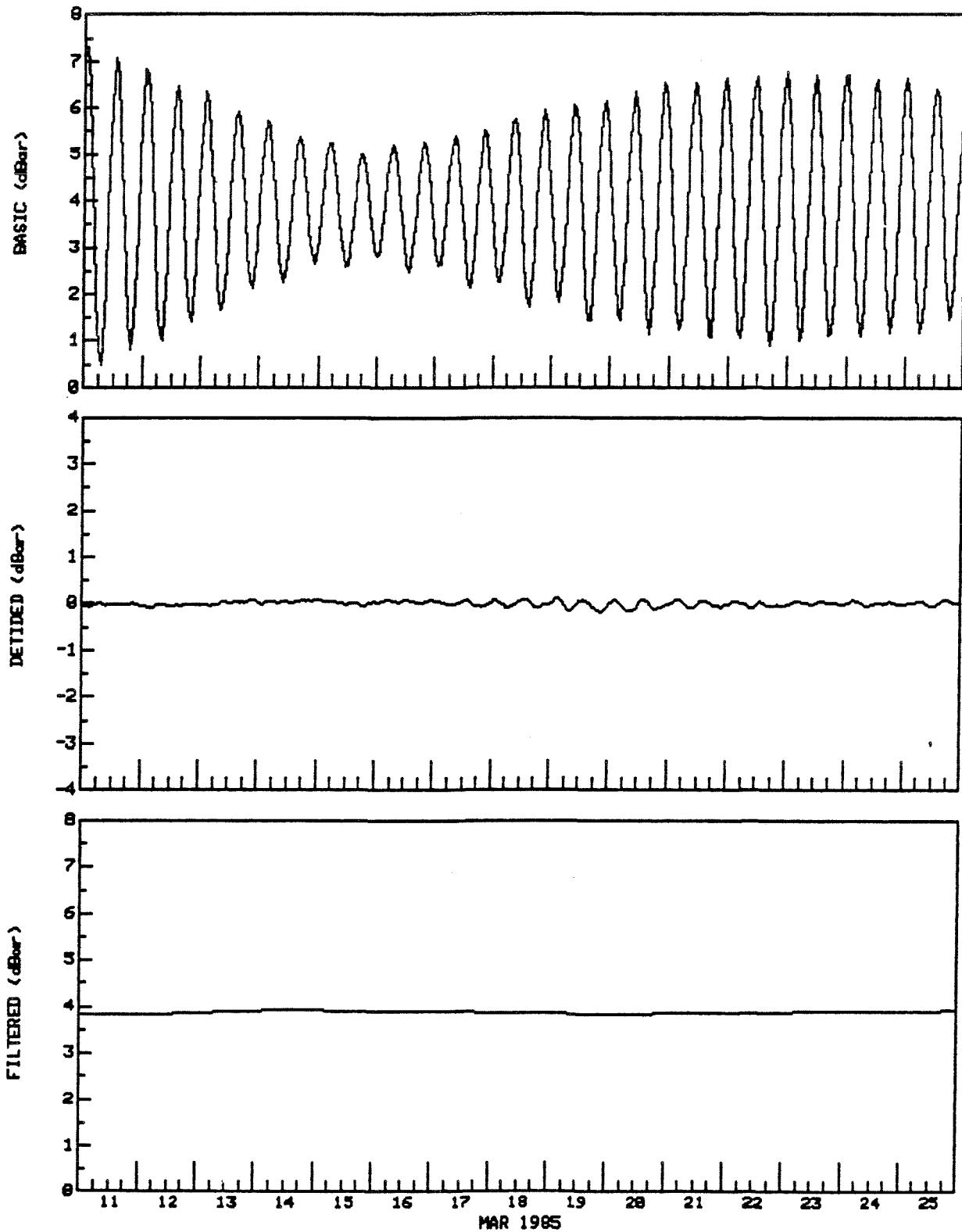
DT(min) 30



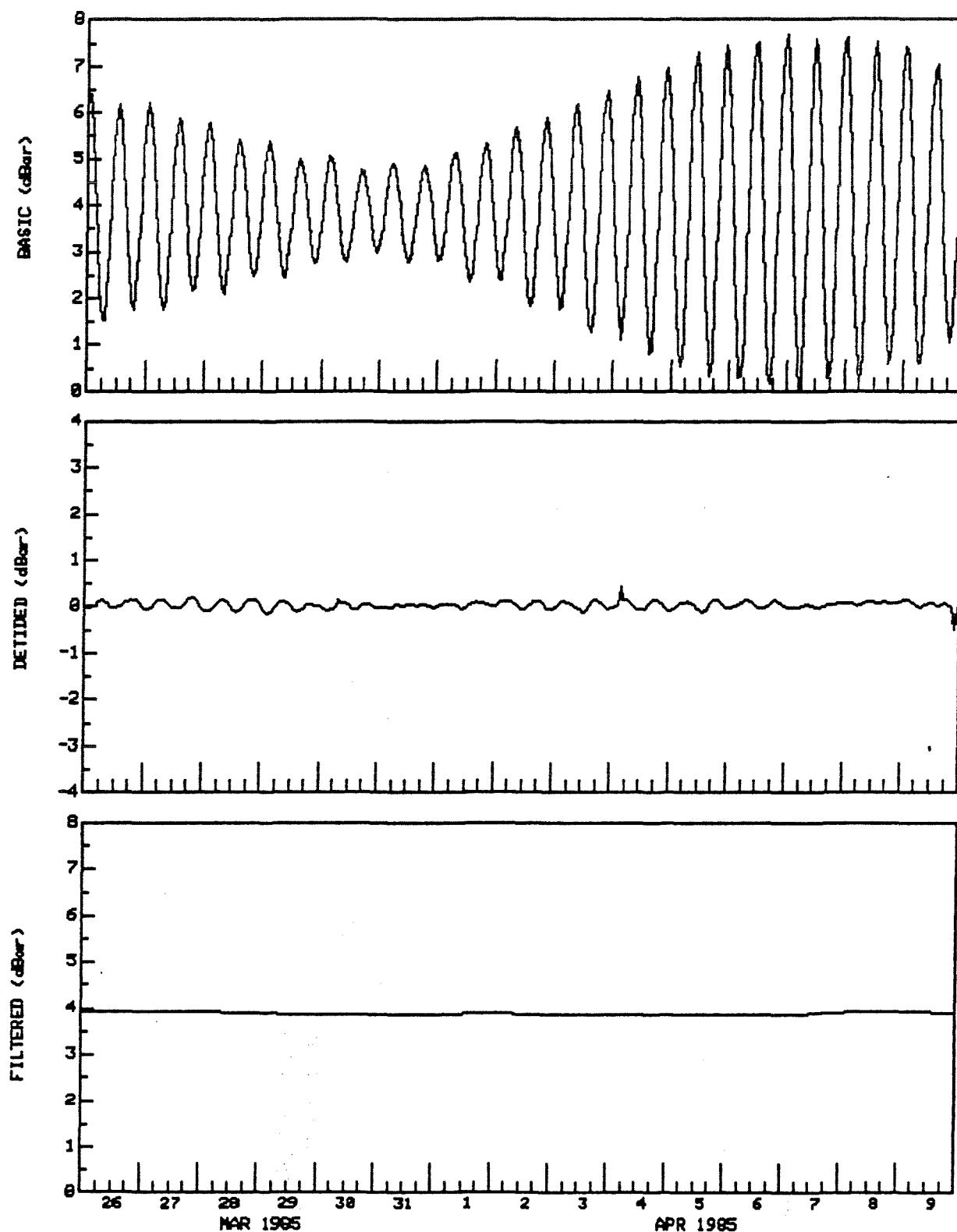
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #5 KINGMIKSOK DEPTH(m) 43 TYPE DESPIKED
65 31' 12"N 67 04' 42"W AANDERAA WLR5 #380 DT(min) 60



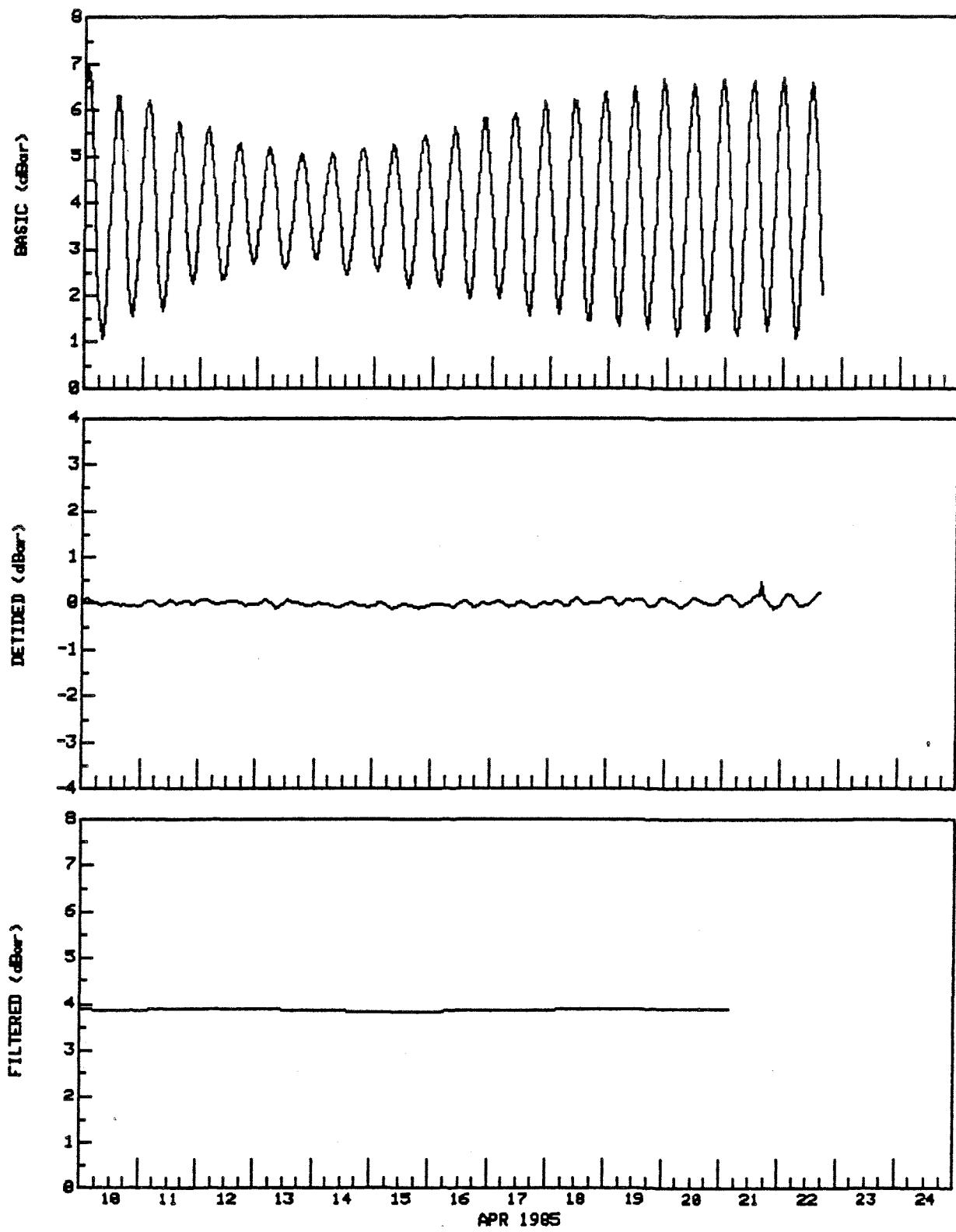
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #5 KINGMIKSOK DEPTH(m) 43 TYPE DESPIKED
65 31' 12"N 67 04' 42"W AANDERAA WLR5 #380 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #5 KINGMIKSOK DEPTH(m) 43 TYPE DESPIKED
65 31' 12"N 67 04' 42"W AANDERAA WLR5 #380 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #5 KINGMIKSOK DEPTH(m) 43 TYPE DESPIKED
65 31' 12"N 67 04' 42"W AANDERAA WLR5 #380 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 6****TIDE GAUGE # 346**

Site # 6: Pangnirtung

Position: 66°05'00"N 65°55'32"W

Tide Gauge #: Aanderaa WLR5 #346

Date/Time of Deployment: 1985/02/28 19:20

Date/Time of Recovery: 1985/04/22 17:05

Sampling Interval: 30 min

Number of Records on Tape: 2648

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	7.807	3.944	1.778
Detided Pressure	-0.236	0.189	0.000	0.069
Filtered Pressure	3.773	4.023	3.948	0.048

Data Quality: Timing 20 seconds slow

Fairly clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #6 PANGNIRTUNG LAT: 66 5 0.0 N
 DEPTH: 35 M LONG: 65 55 32.0 W
 START: 2000Z 28/ 2/85 END: 1700Z 22/ 4/85
 NO.OBS.= 1270 NO.PTS.ANAL.= 1270 MIDPT: 600Z 27/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	3.9249	0.00
2	MM	0.00151215	0.0282	182.01
3	MSF	0.00282193	0.0304	161.14
4	ALP1	0.03439657	0.0006	82.96
5	ZQ1	0.03570635	0.0026	19.07
6	Q1	0.03721850	0.0071	59.34
7	O1	0.03873065	0.0521	75.57
8	N01	0.04026860	0.0024	95.67
9	P1	0.04155259	0.0285	96.51 INF FR K1
10	K1	0.04178075	0.0864	96.52
11	J1	0.04329290	0.0081	101.51
12	001	0.04483084	0.0035	84.34
13	UPS1	0.04634299	0.0025	208.07
14	EPS2	0.07617730	0.0265	153.21
15	MU2	0.07768947	0.1179	208.07
16	N2	0.07899922	0.4952	266.20
17	M2	0.08051139	2.2047	286.29
18	L2	0.08202356	0.0828	271.01
19	S2	0.08333331	0.8355	331.78
20	K2	0.08356148	0.2256	331.78 INF FR S2
21	ETA2	0.08507365	0.0389	18.67
22	M03	0.11924207	0.0018	192.07
23	M3	0.12076712	0.0253	74.33
24	MK3	0.12229216	0.0074	317.04
25	SK3	0.12511408	0.0077	198.75
26	MN4	0.15951067	0.0141	132.71
27	M4	0.16102278	0.0144	155.95
28	SN4	0.16233259	0.0034	277.34
29	MS4	0.16384470	0.0047	285.62
30	S4	0.16666669	0.0006	0.96
31	2MK5	0.20280355	0.0013	357.79
32	2SK5	0.20844740	0.0004	181.12
33	2MN6	0.24002206	0.0032	173.10
34	M6	0.24153417	0.0033	210.88
35	2MS6	0.24435616	0.0026	251.69
36	2SM6	0.24717808	0.0010	261.96
37	3MK7	0.28331494	0.0004	142.07
38	M8	0.32204562	0.0008	230.18

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #6 PANGNIRTUNG

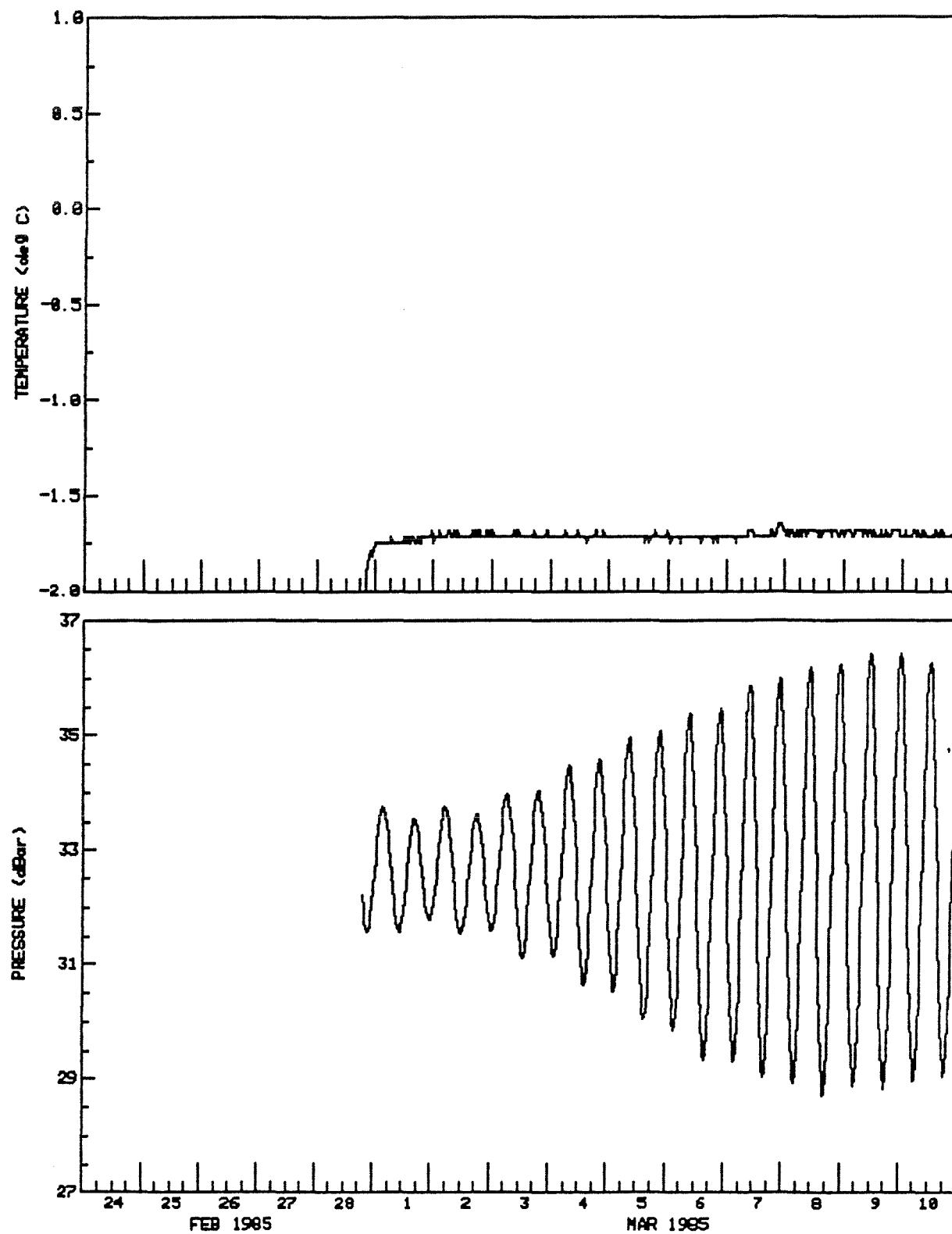
DEPTH(m) 33

TYPE DESPIKED

66 05' 00"N 65 55' 32"W

AANDERAA WLR5 #346

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #6 PANGNIRTUNG

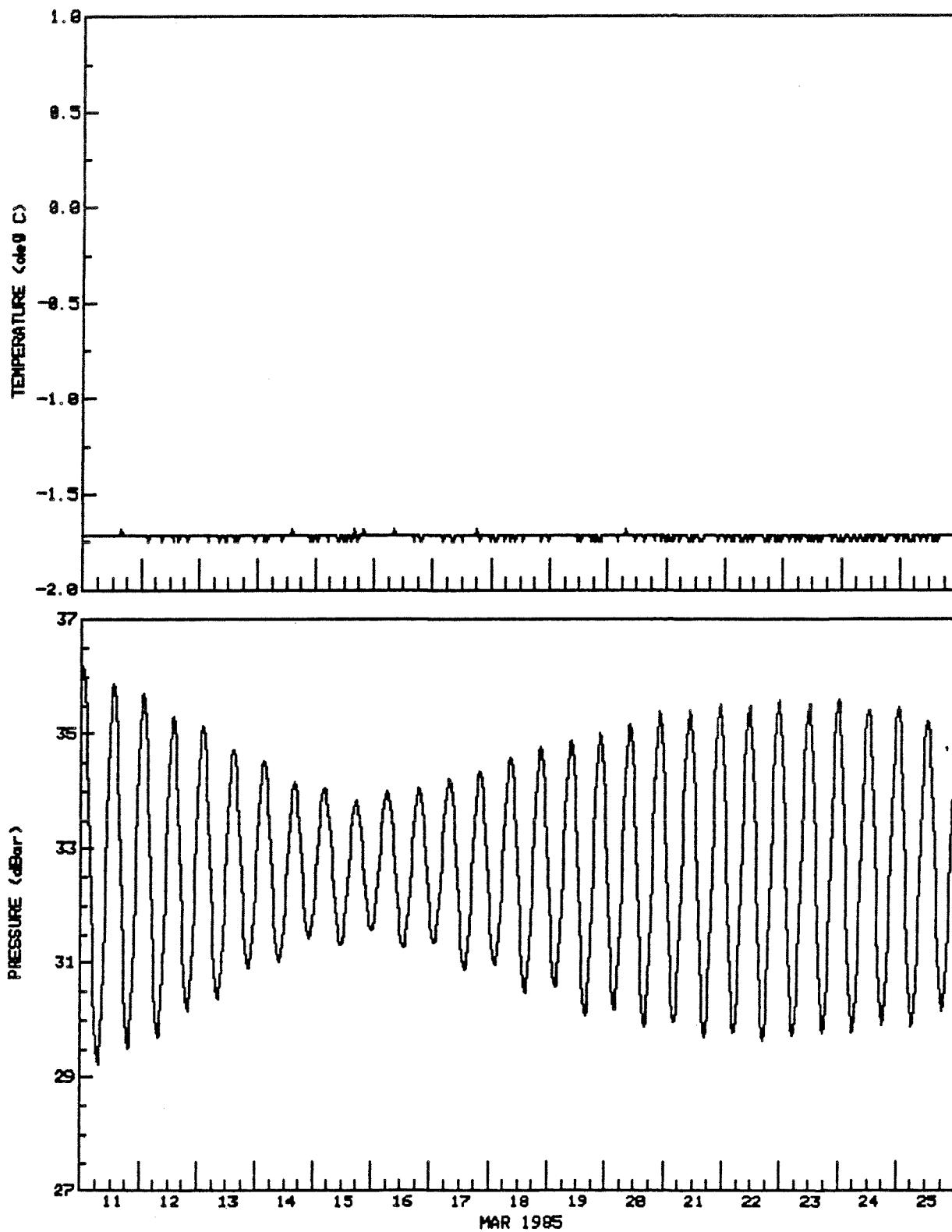
66 05' 00"N 65 55' 32"W

DEPTH(m) 33

AANDERAA WLR5 #346

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #6 PANGNIRTUNG

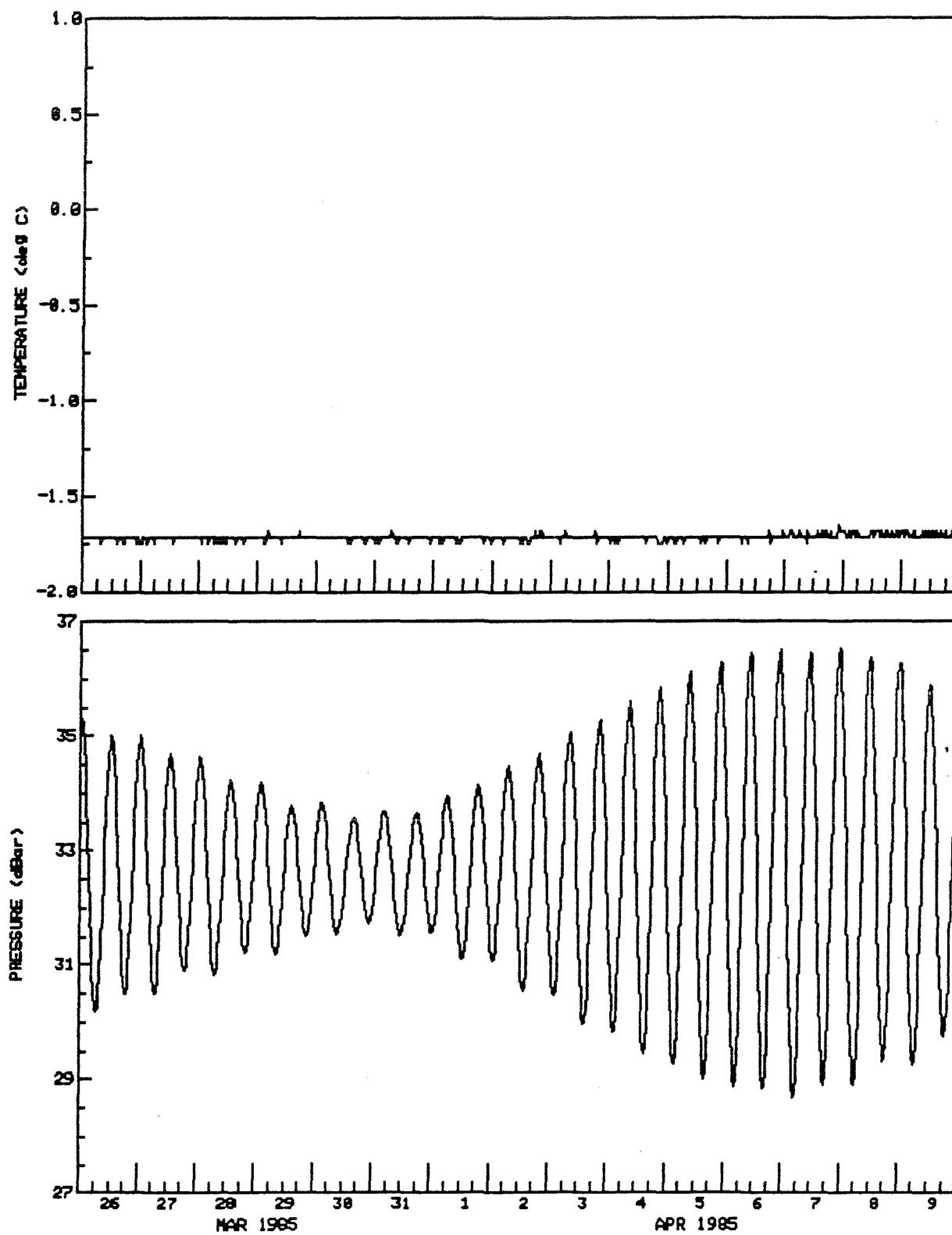
66 05' 00"N 65 55' 32"W

DEPTH(m) 33

AANDERAA WLR5 #346

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #6 PANGNIRTUNG

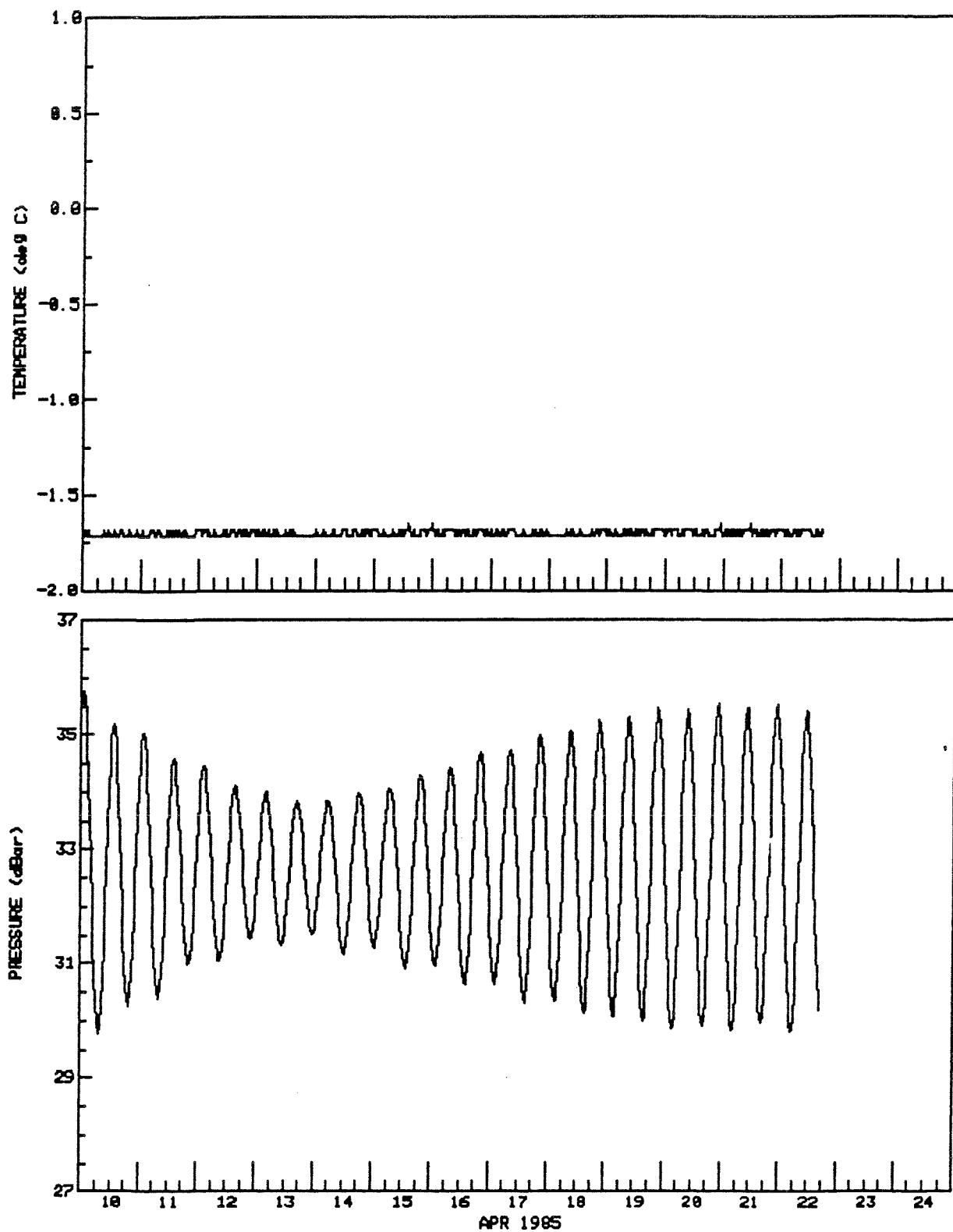
DEPTH(m) 33

TYPE DESPIKED

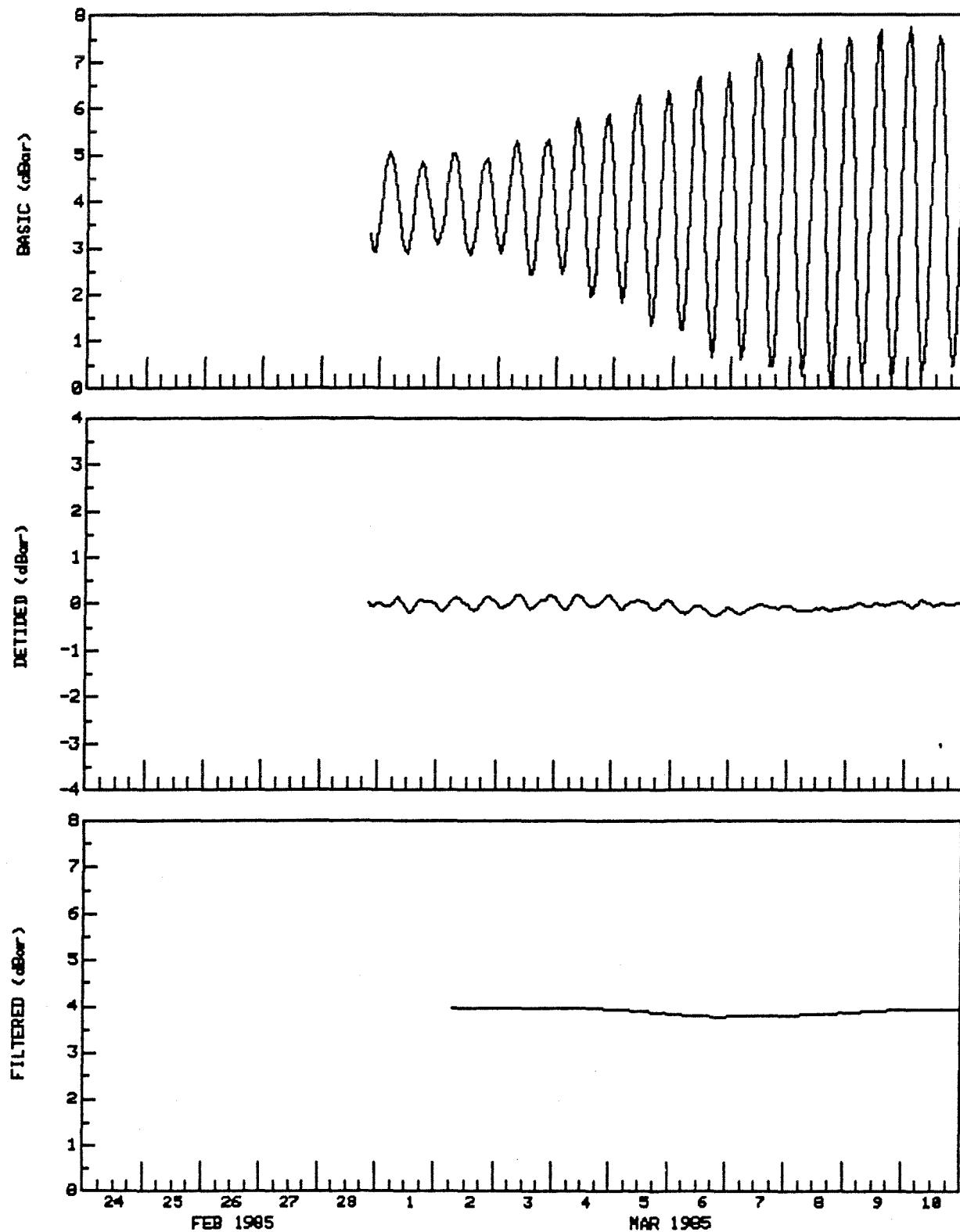
66 05' 00"N 65 55' 32"W

AANDERAA WLR5 #346

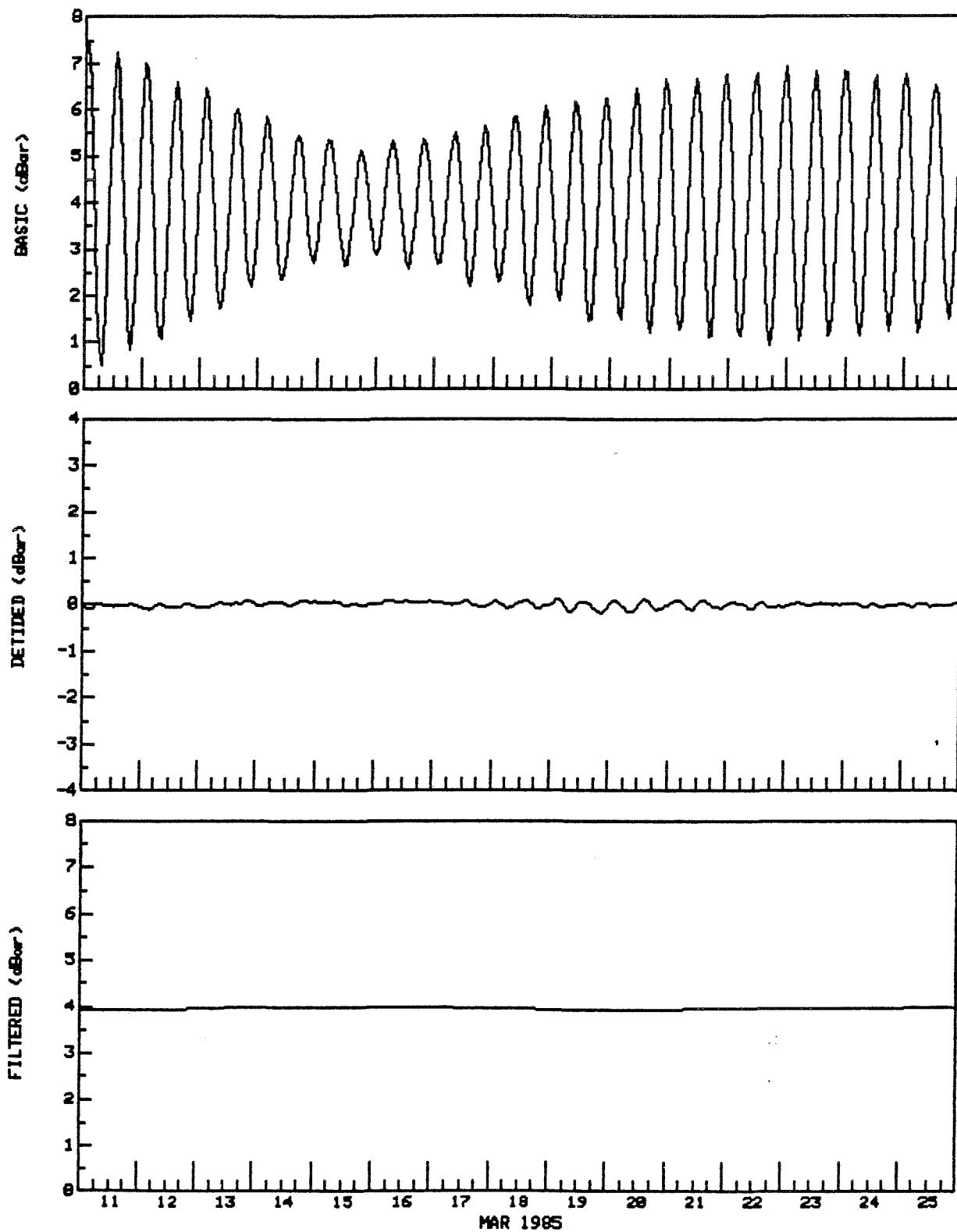
DT(min) 30



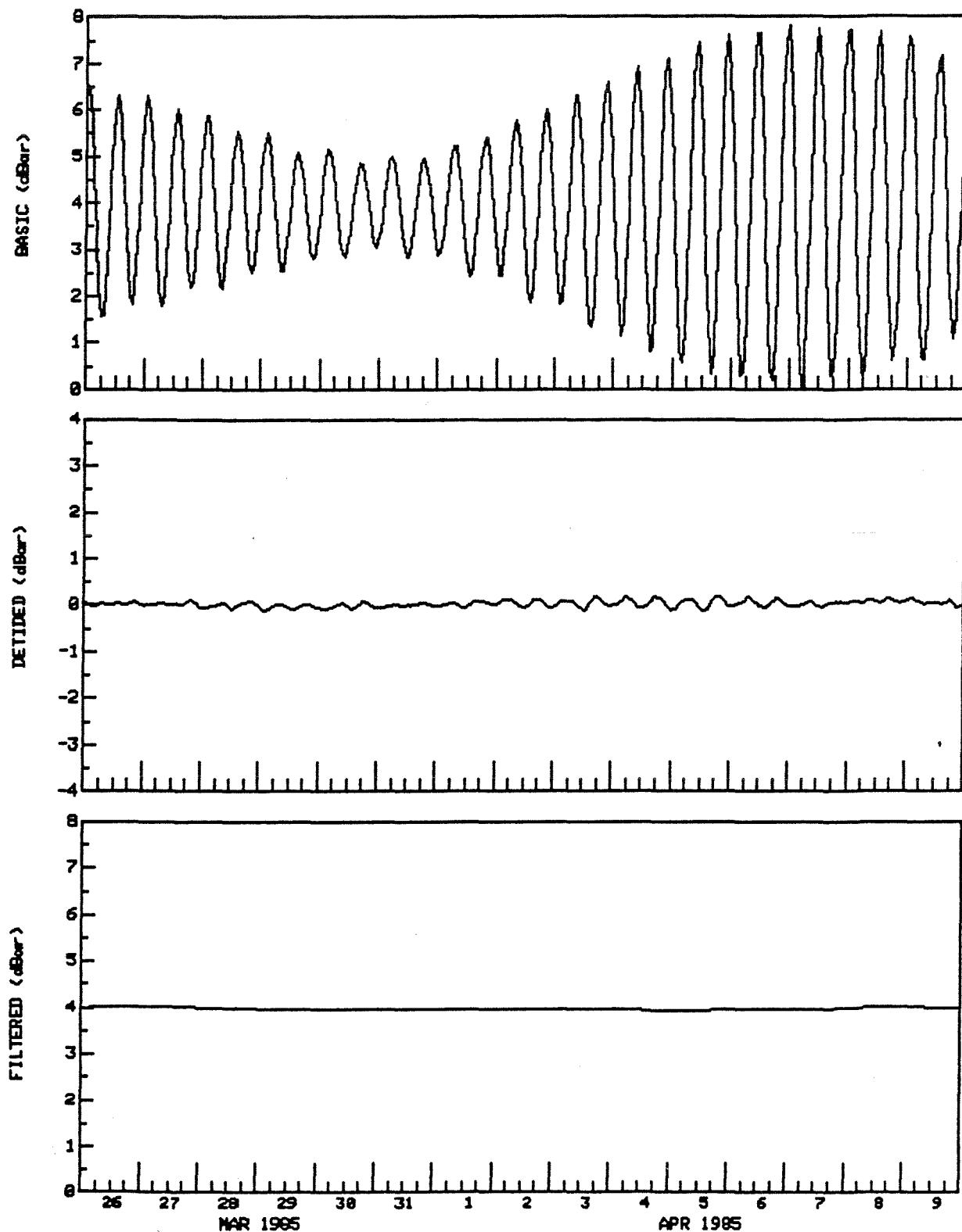
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #6 PANGNIRTUNG DEPTH(m) 33 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #346 DT(min) 60



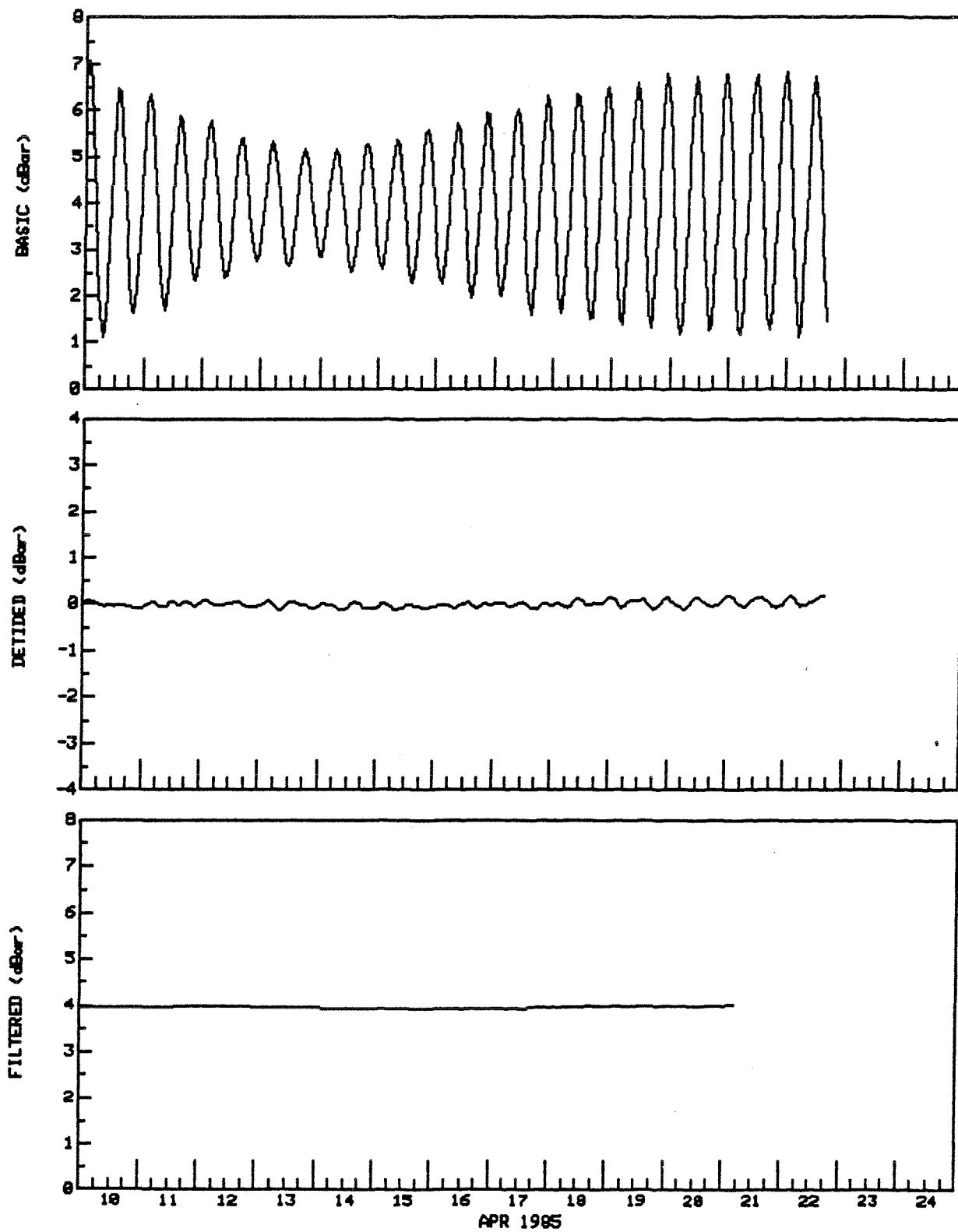
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #6 PANGNIRTUNG DEPTH(m) 33 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #346 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #6 PANGNIRTUNG DEPTH(m) 33 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #346 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #6 PANGNIRTUNG DEPTH(m) 33 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #346 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 8****TIDE GAUGE # 340**

Site # 8: Padloping Island

Position: 67°11'45"N 62°25'39"W

Tide Gauge #: Aanderaa WLR5 #340

Date/Time of Deployment: 1985/03/01 19:29

Date/Time of Recovery: 1985/04/25 16:32

Sampling Interval: 30 min

Number of Records on Tape: 2795

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.775	0.936	0.392
Detided Pressure	-0.114	0.113	0.000	0.040
Filtered Pressure	0.829	1.004	0.936	0.051

Data Quality: Timing 20 seconds slow

Clean but short record

Meter encoder malfunctioned at 18 March 15:30

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

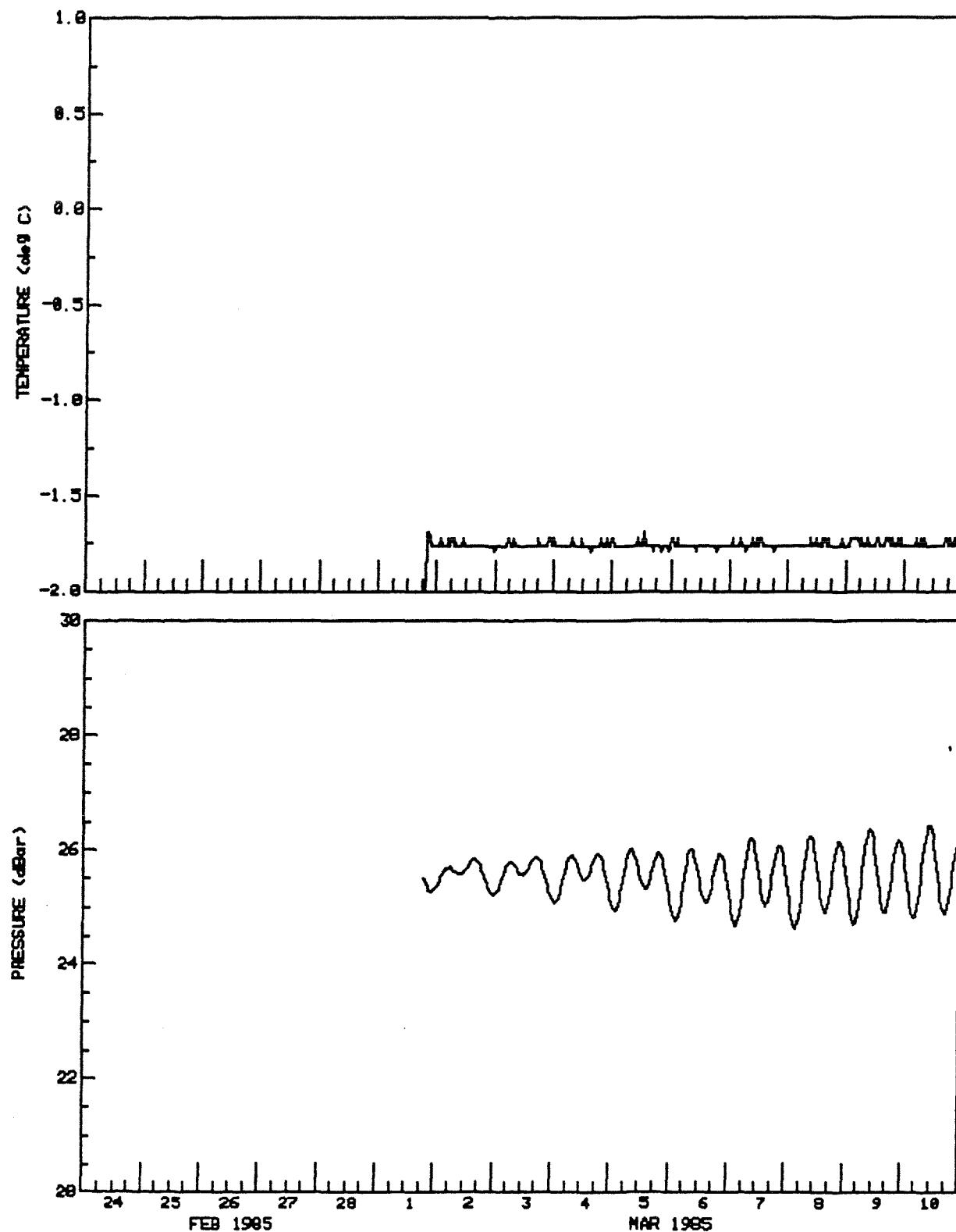
ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #8 PADLOPING ISLAND LAT: 67 11 45.0 N
 DEPTH: 25 M LONG: 62 25 39.0 W
 START: 2000Z 1/ 3/85 END: 1500Z 18/ 3/85
 NO.OBS.= 404 NO.PTS.ANAL.= 404 MIDPT: 500Z 10/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	0.9311	0.00
2	MSF	0.00282193	0.0641	192.57
3	O1	0.03873065	0.0506	196.80
4	P1	0.04155259	0.0667	252.00 INF FR K1
5	K1	0.04178075	0.2021	252.00
6	N2	0.07899922	0.0817	239.45 INF FR M2
7	M2	0.08051139	0.4086	262.45
8	S2	0.08333331	0.1686	311.44
9	K2	0.08356148	0.0455	311.44 INF FR S2
10	M3	0.12076712	0.0040	67.86
11	SK3	0.12511408	0.0040	117.59
12	M4	0.16102278	0.0018	289.65
13	MS4	0.16384470	0.0019	39.13
14	S4	0.16666669	0.0002	162.24
15	2MK5	0.20280355	0.0014	262.56
16	2SK5	0.20844740	0.0009	318.19
17	M6	0.24153417	0.0043	239.31
18	2MS6	0.24435616	0.0028	338.50
19	2SM6	0.24717808	0.0013	107.43
20	3MK7	0.28331494	0.0007	226.79
21	M8	0.32204562	0.0006	76.97

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #8 PADLOPING ISLAND DEPTH(m) 26 TYPE DESPIKED
67 11' 45"N 62 25' 39"W AANDERAA WLR5 #340 DT(min) 30

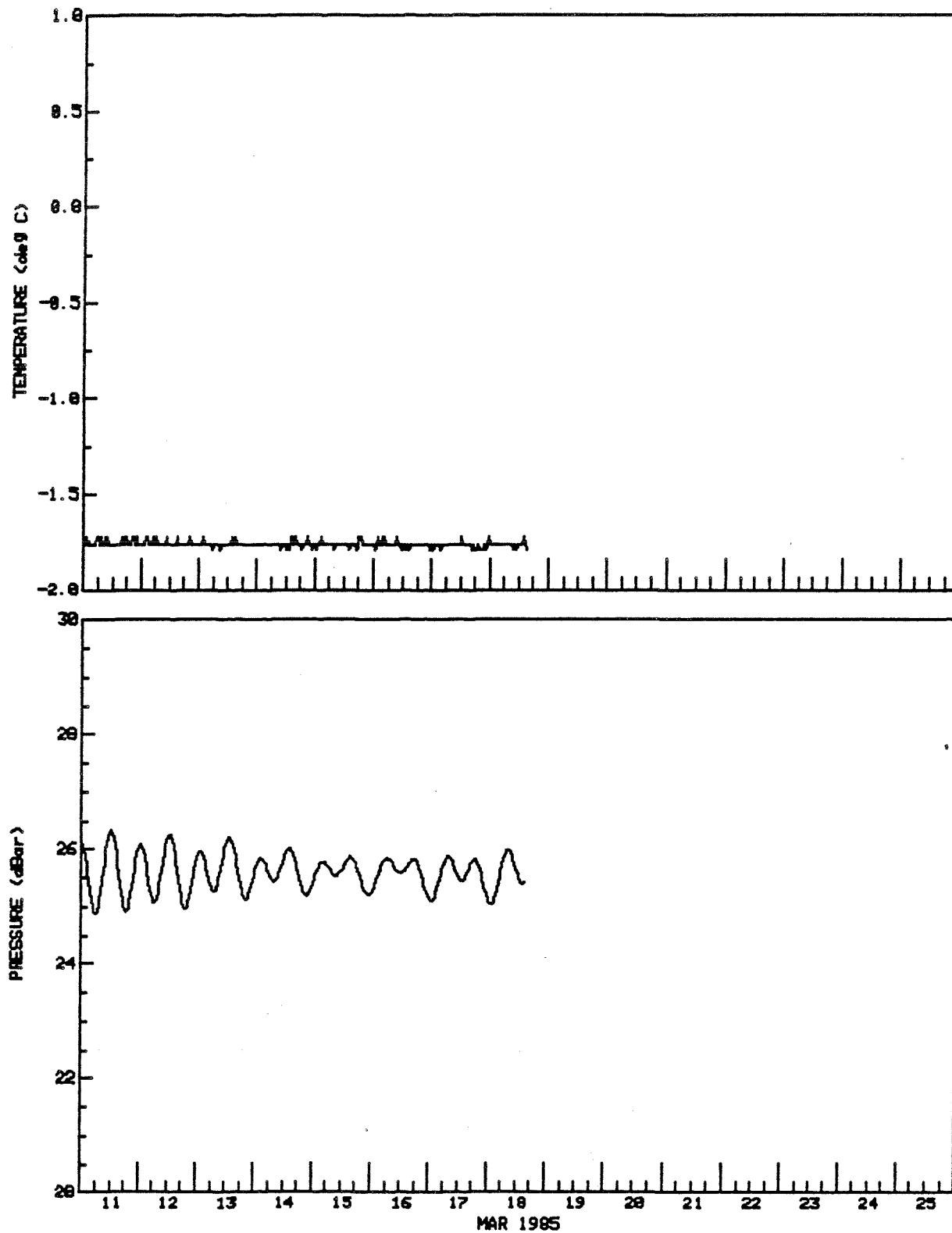


EASTERN ARCTIC TIDAL SURVEY, 1985

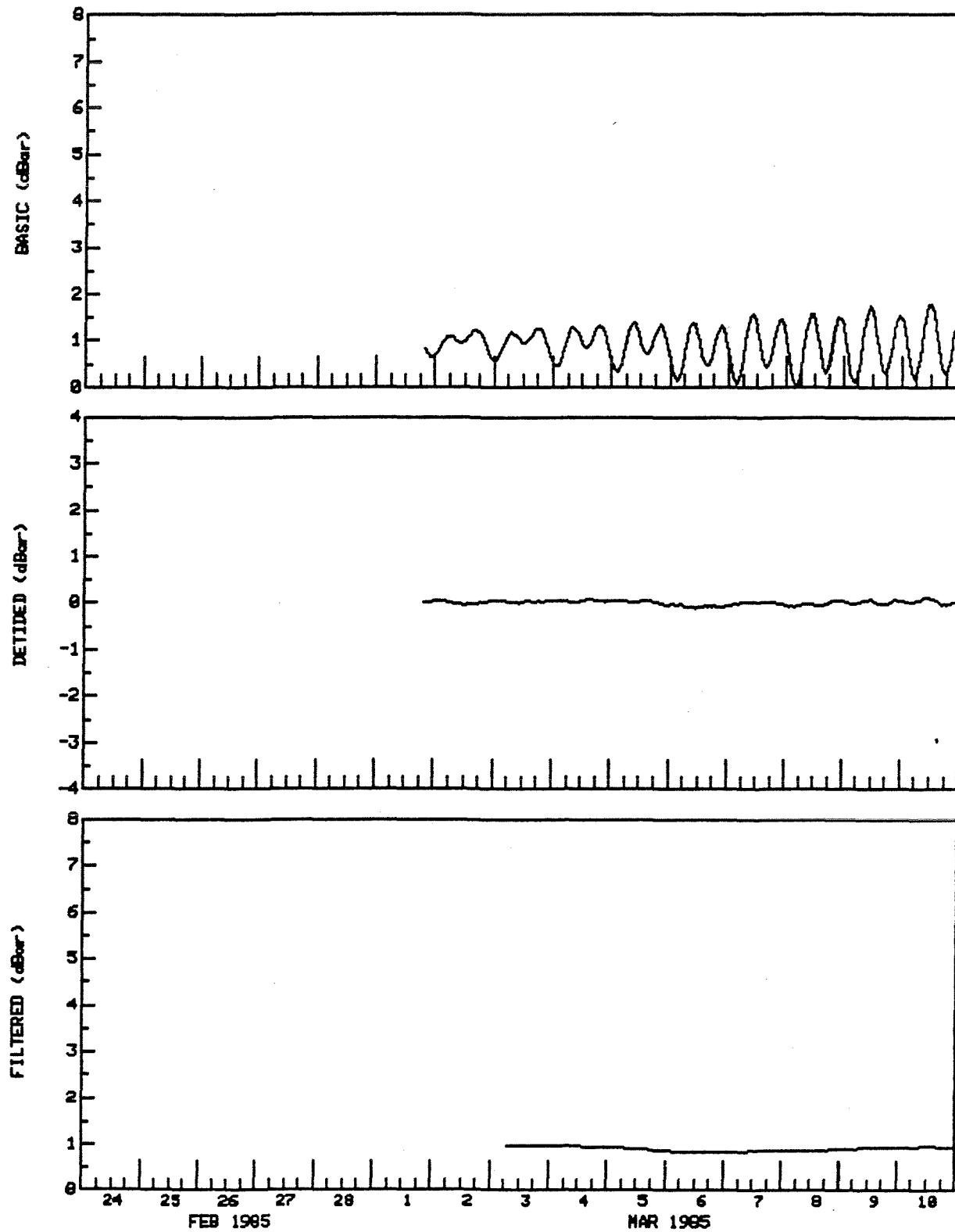
SITE #8 PAILOPING ISLAND
67 11' 45"N 62 25' 39"W

DEPTH(m) 26
AANDERAA WLR5 #340

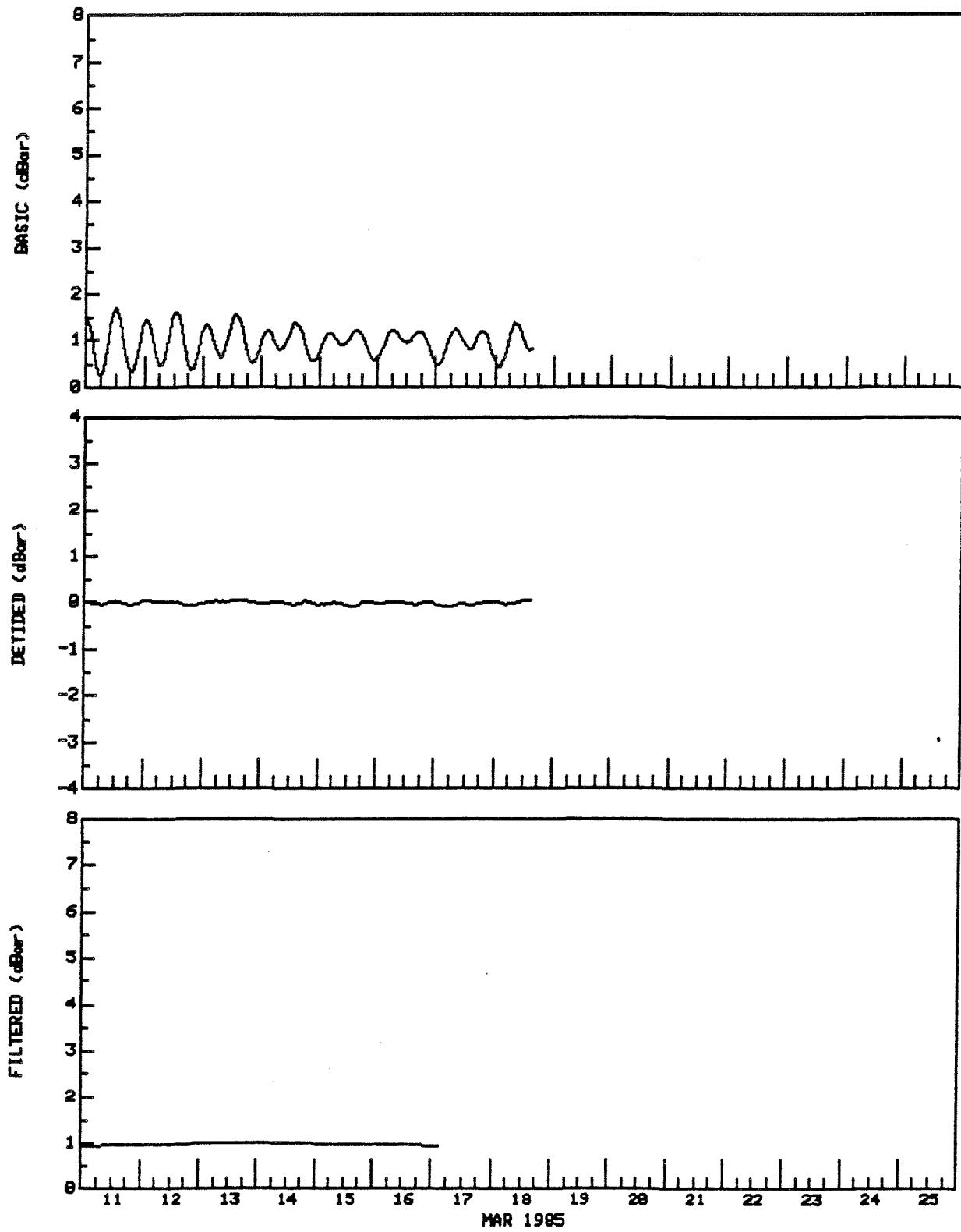
TYPE DESPIKED
DT(min) 30



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #8 PADLOPING ISLAND DEPTH(m) 26 TYPE DESPIKED
67 11' 45"N 62 25' 39"W AANDERAA WLR5 #340 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #8 PADLOPING ISLAND DEPTH(m) 26 TYPE DESPIKED
67 11' 45"N 62 25' 39"W AANDERAA WLR5 #340 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 9****TIDE GAUGE # 826**

Site # 9: Broughton Island

Position: 67°32'24"N 63°44'48"W

Tide Gauge #: Aanderaa WLR5 #826

Date/Time of Deployment: 1985/02/28 21:30

Date/Time of Recovery: 1985/04/25 17:11

Sampling Interval: 30 min

Number of Records on Tape: 2892

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.480	0.793	0.287
Detided Pressure	-0.195	0.114	0.000	0.042
Filtered Pressure	0.653	0.856	0.794	0.038

Data Quality: Timing 39 seconds slow
Pressure record few spikes

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

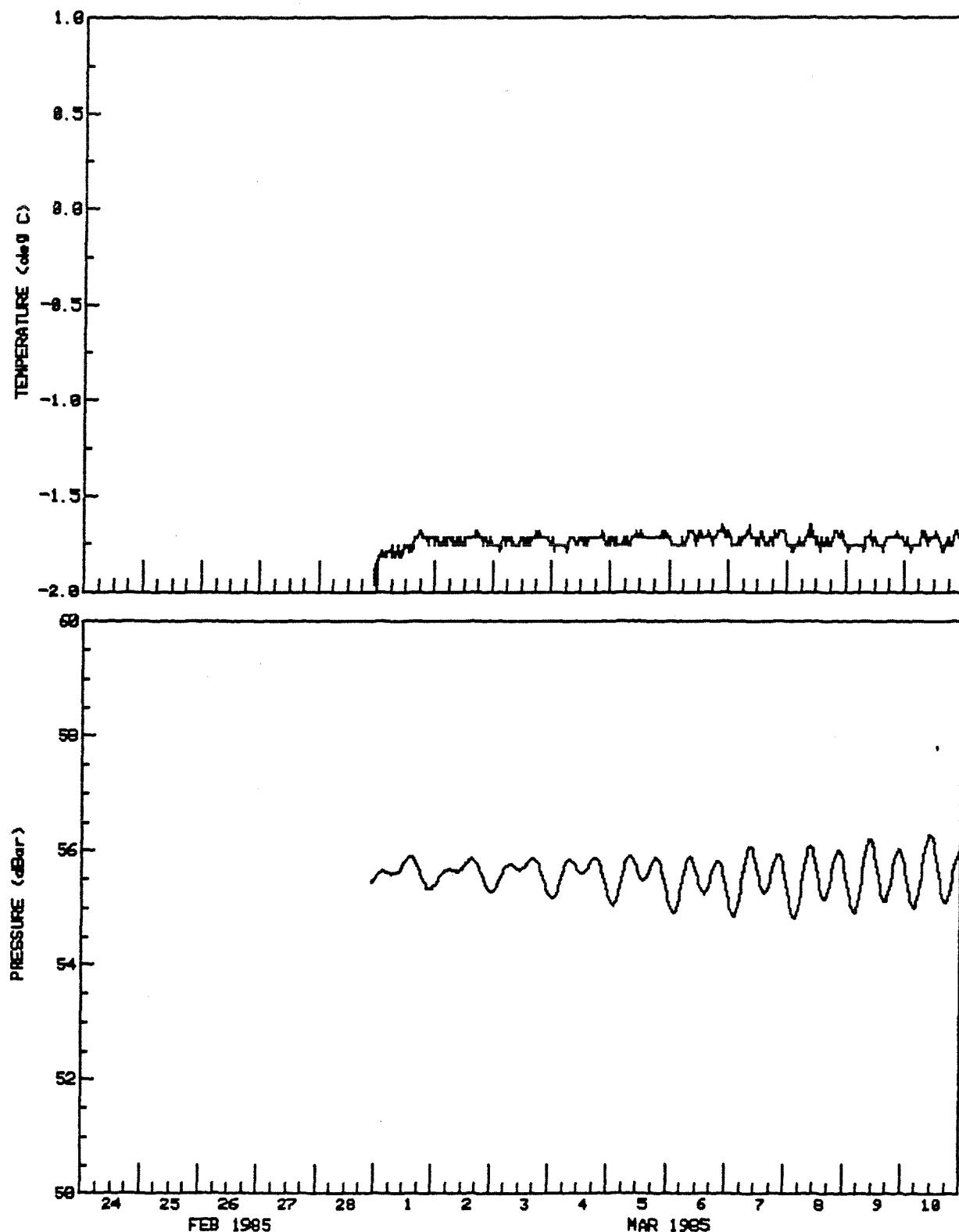
ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #9 BROUGHTON ISLAND LAT: 67 32 24.0 N
 DEPTH: 70 M LONG: 63 44 48.0 W
 START: 2200Z 28/ 2/85 END: 1700Z 25/ 4/85
 NO.OBS.= 1340 NO.PTS.ANAL.= 1340 MIDPT: 1900Z 28/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	0.7906	0.00
2	MM	0.00151215	0.0200	190.61
3	MSF	0.00282193	0.0233	156.95
4	ALP1	0.03439657	0.0023	189.66
5	2Q1	0.03570635	0.0026	328.06
6	Q1	0.03721850	0.0018	53.34
7	Q1	0.03873065	0.0631	205.74
8	N01	0.04026860	0.0060	253.30
9	P1	0.04155259	0.0647	255.66 INF FR K1
10	K1	0.04178075	0.1959	255.66
11	J1	0.04329290	0.0122	280.57
12	001	0.04483084	0.0068	271.56
13	UPS1	0.04634299	0.0017	173.46
14	EPS2	0.07617730	0.0050	89.45
15	MU2	0.07768947	0.0139	182.27
16	N2	0.07899922	0.0676	231.95
17	M2	0.08051139	0.3070	257.80
18	L2	0.08202356	0.0107	217.67
19	S2	0.08333331	0.1292	310.24
20	K2	0.08356148	0.0349	310.24 INF FR S2
21	ETA2	0.08507365	0.0062	13.99
22	M03	0.11924207	0.0016	23.80
23	M3	0.12076712	0.0024	45.76
24	MK3	0.12229216	0.0010	221.66
25	SK3	0.12511408	0.0017	154.26
26	MN4	0.15951067	0.0002	187.10
27	M4	0.16102278	0.0007	248.94
28	SN4	0.16233259	0.0002	352.78
29	MS4	0.16384470	0.0014	45.73
30	S4	0.16666669	0.0002	167.41
31	2MK5	0.20280355	0.0005	197.31
32	2SK5	0.20844740	0.0004	21.88
33	2MN6	0.24002206	0.0026	181.22
34	M6	0.24153417	0.0034	251.25
35	2MS6	0.24435616	0.0029	316.48
36	2SM6	0.24717808	0.0011	66.43
37	3MK7	0.28331494	0.0002	253.36
38	M8	0.32204562	0.0002	183.91

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 30

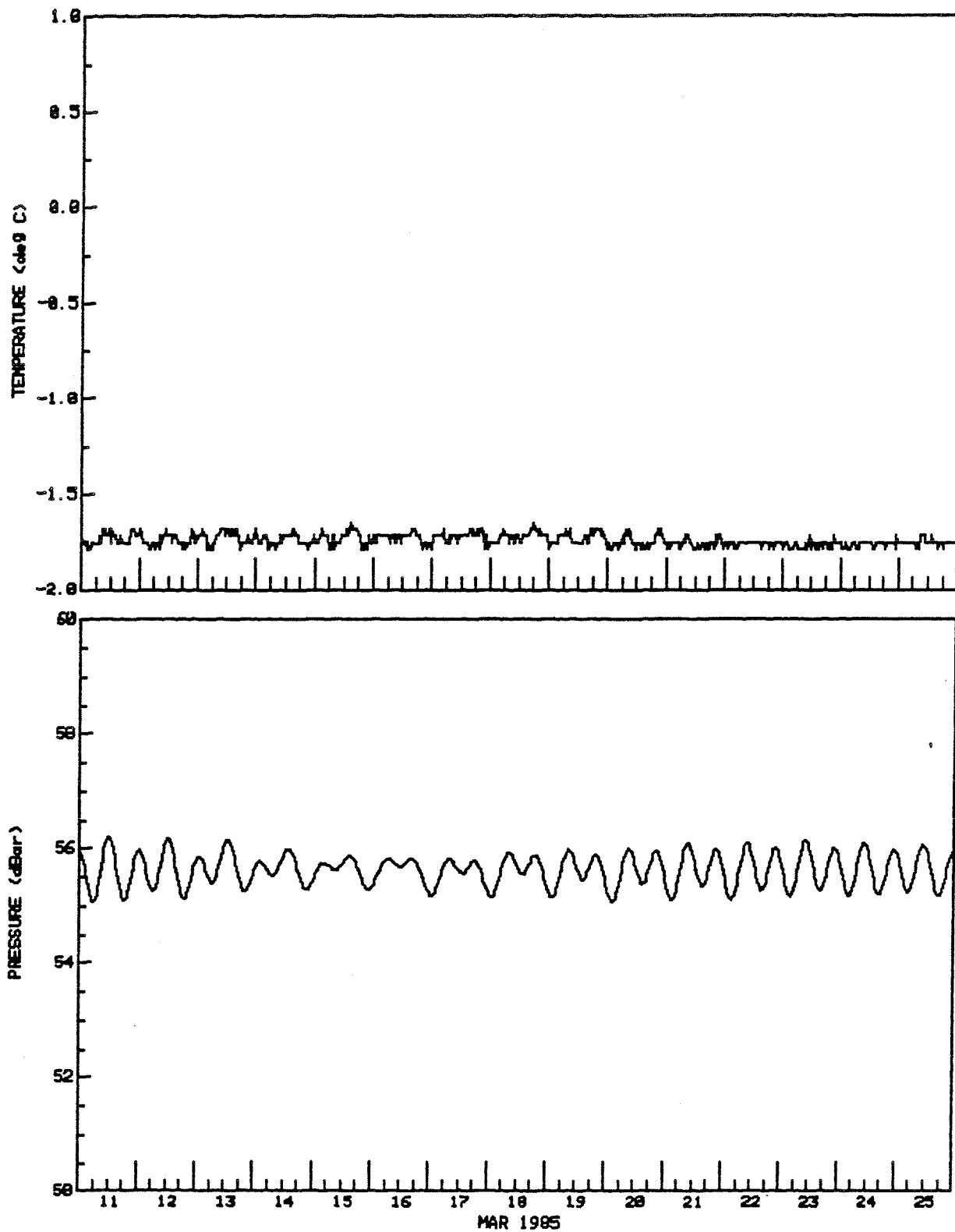


EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #9 BROUGHTON ISLAND
67 32' 24"N 63 44' 48"W

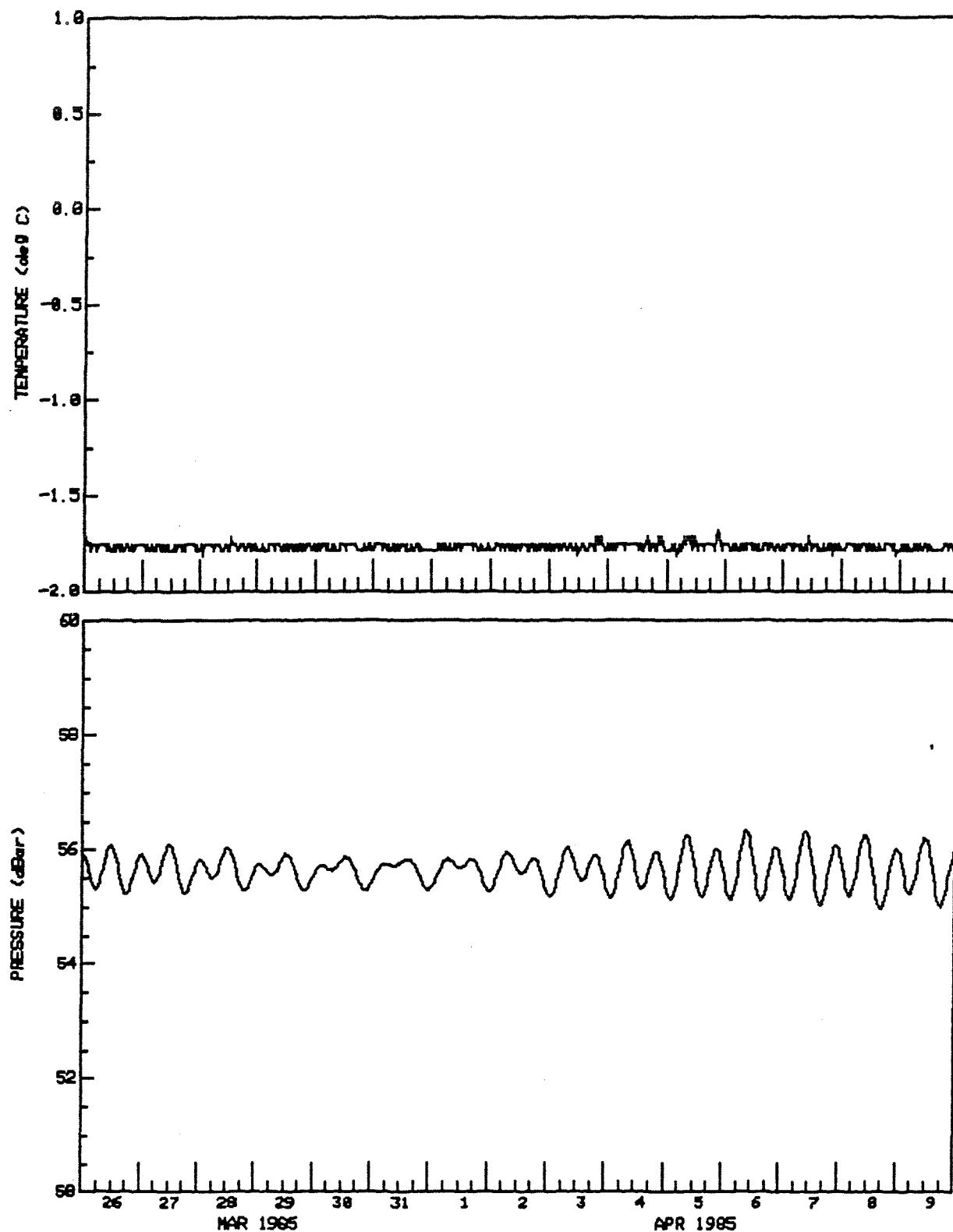
DEPTH(m) 56
AANDERAA WLR5 #826

TYPE DESPIKED
DT(min) 30



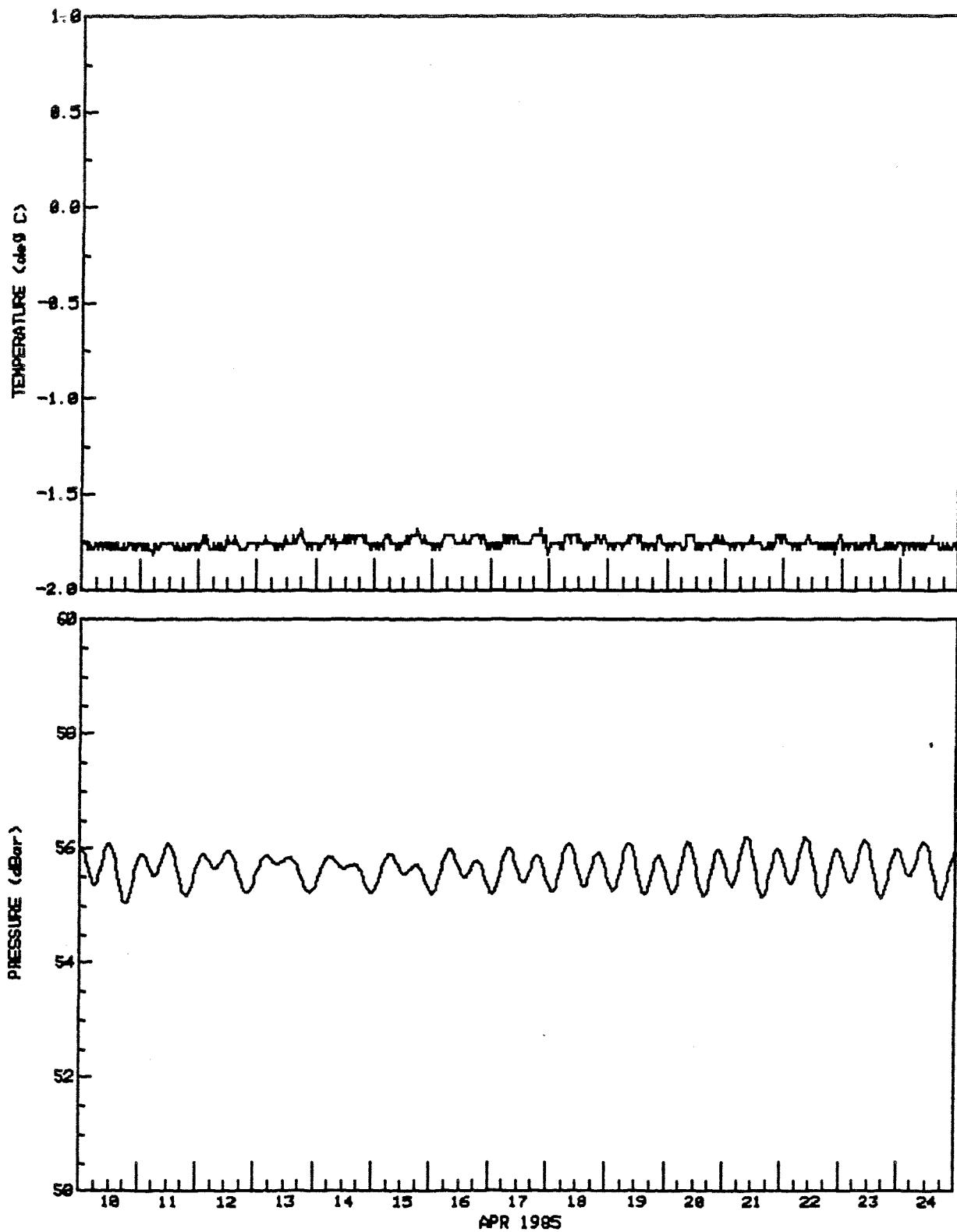
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 30



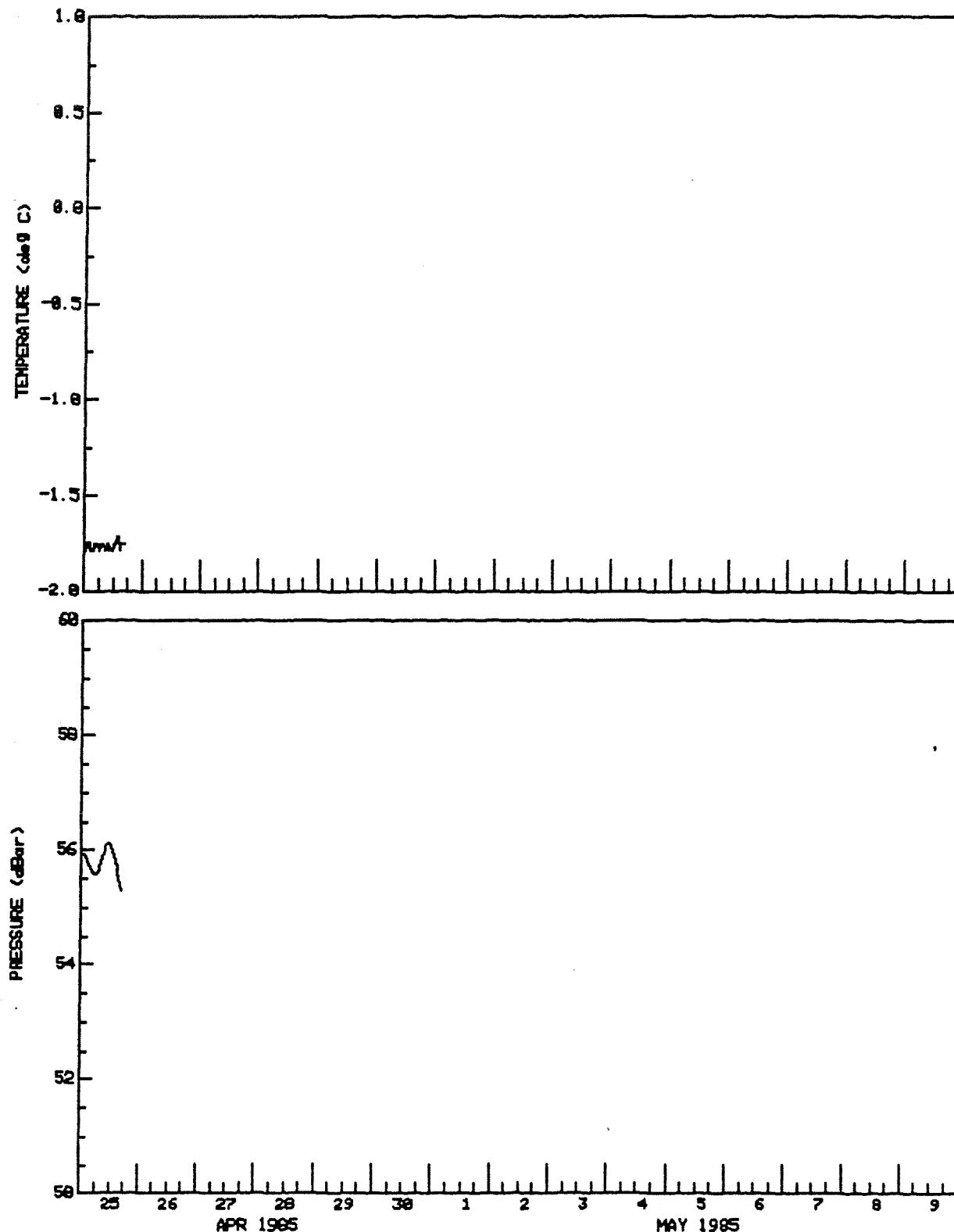
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 30

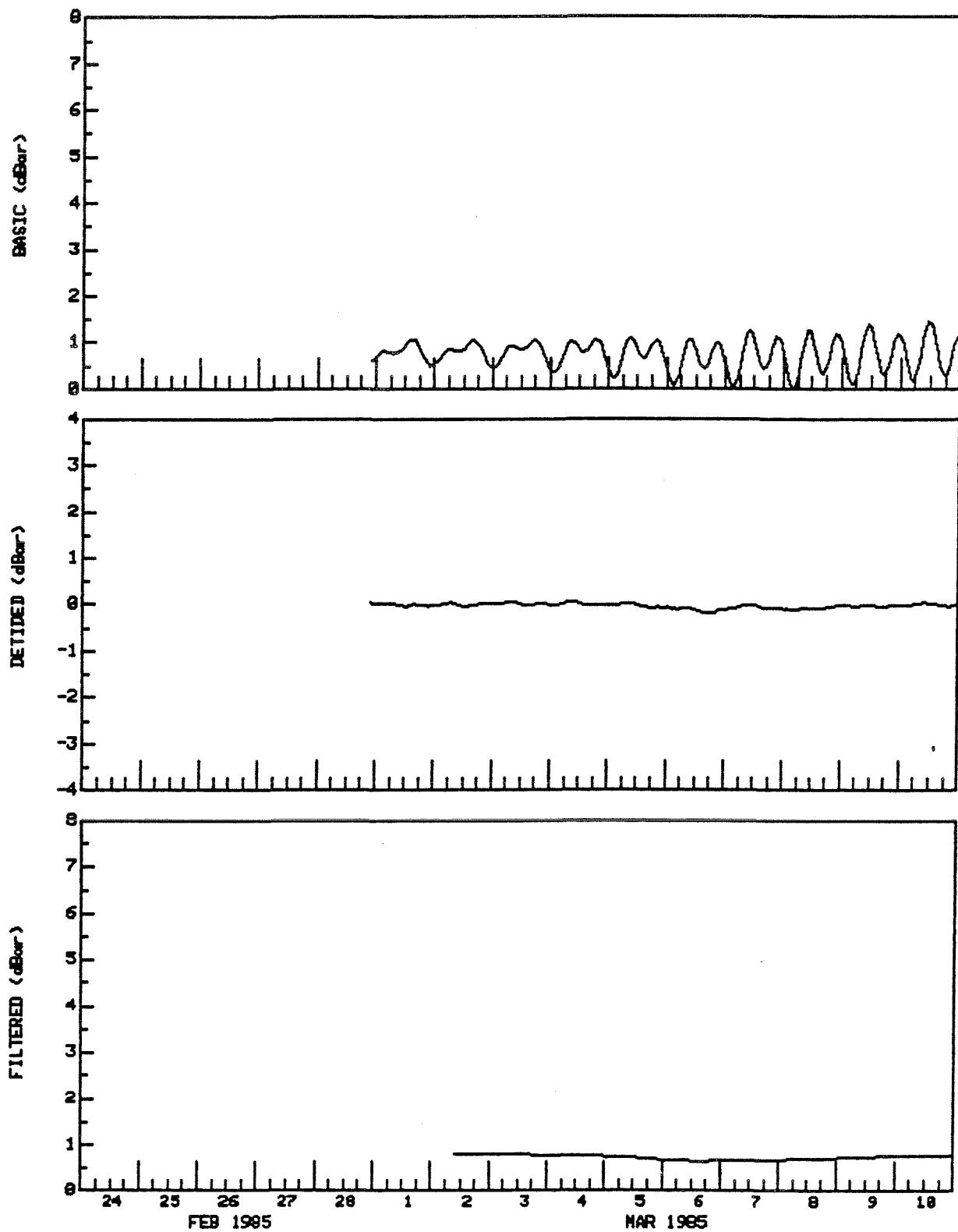


EASTERN ARCTIC TIDAL SURVEY, 1985

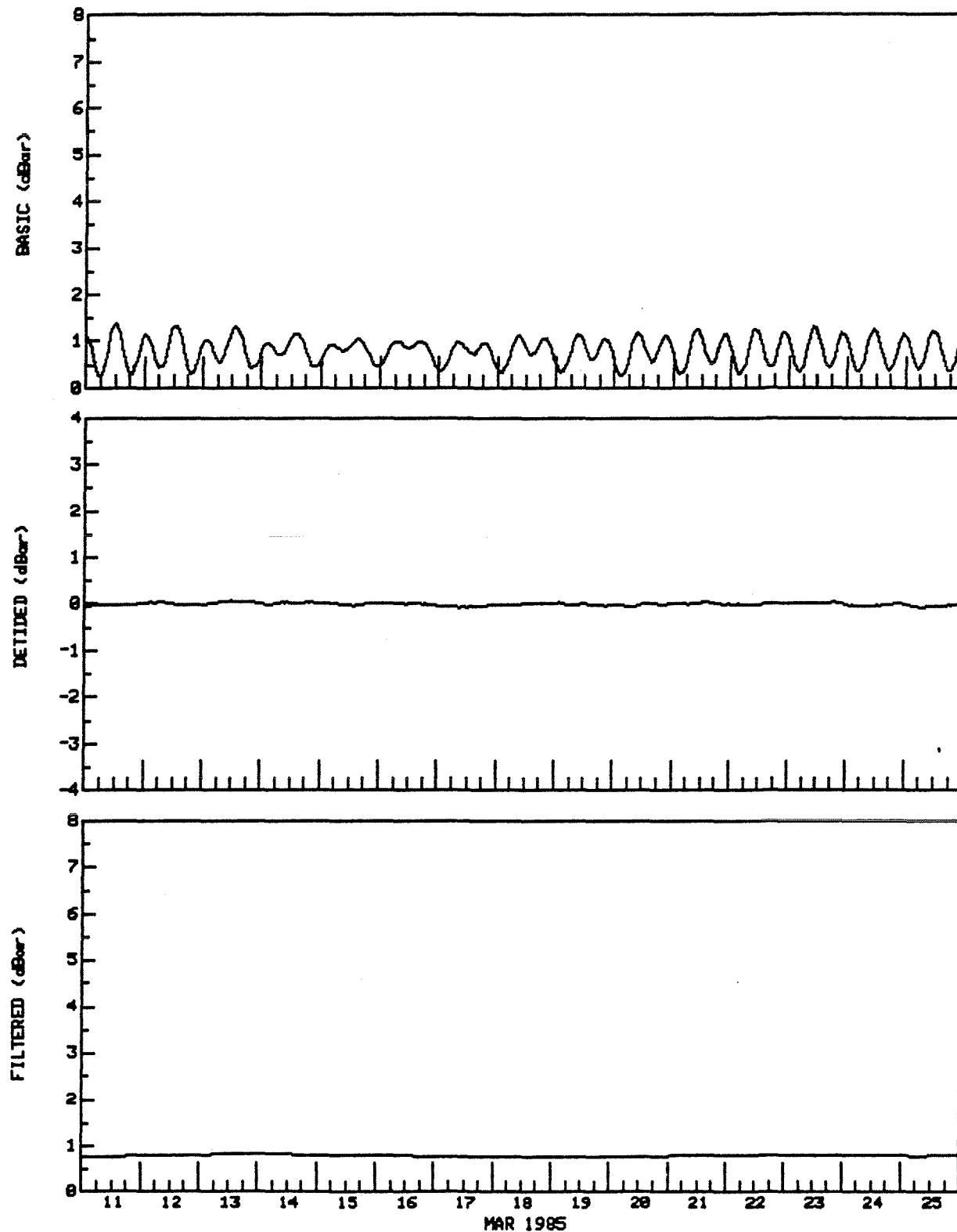
SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 30



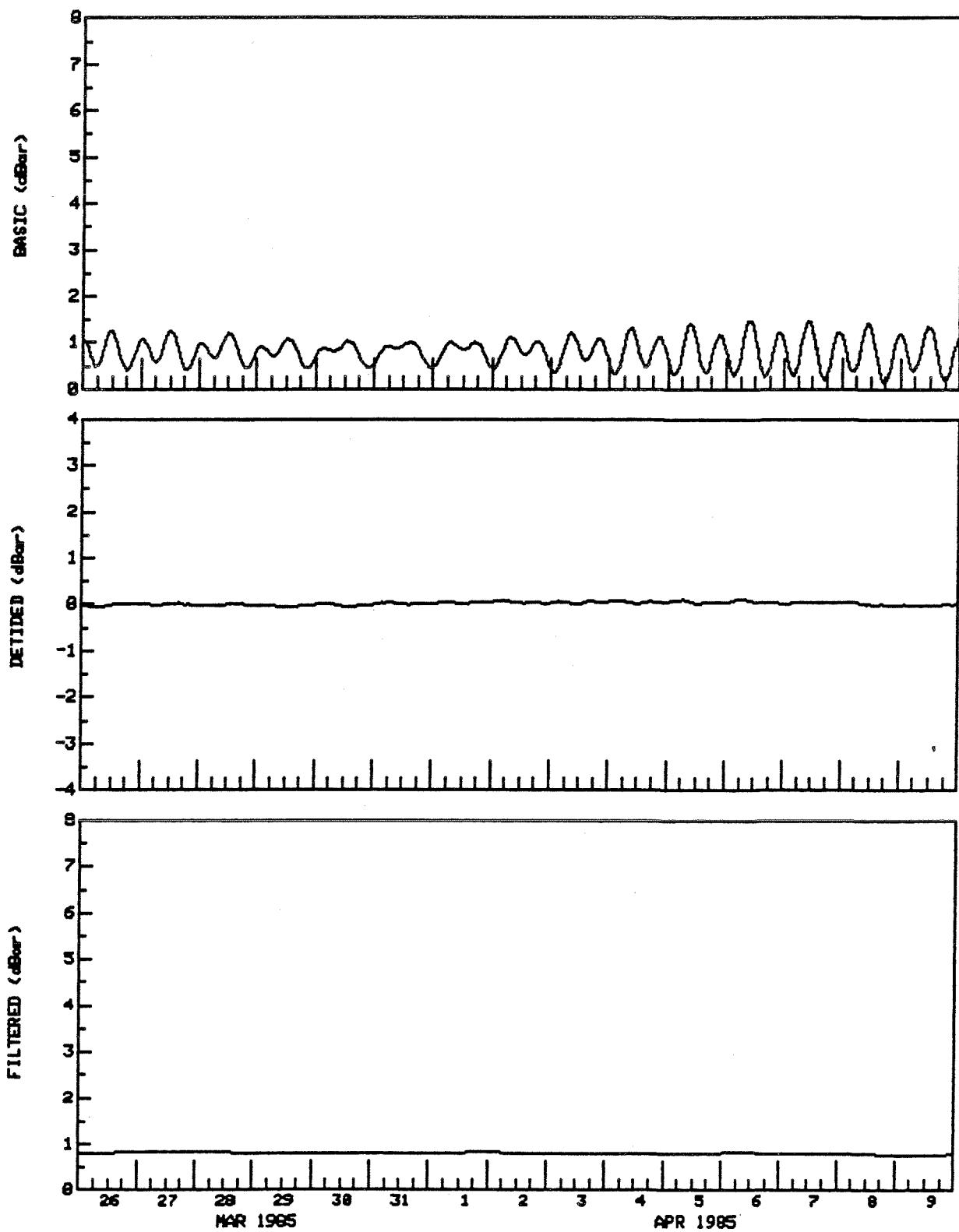
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 60



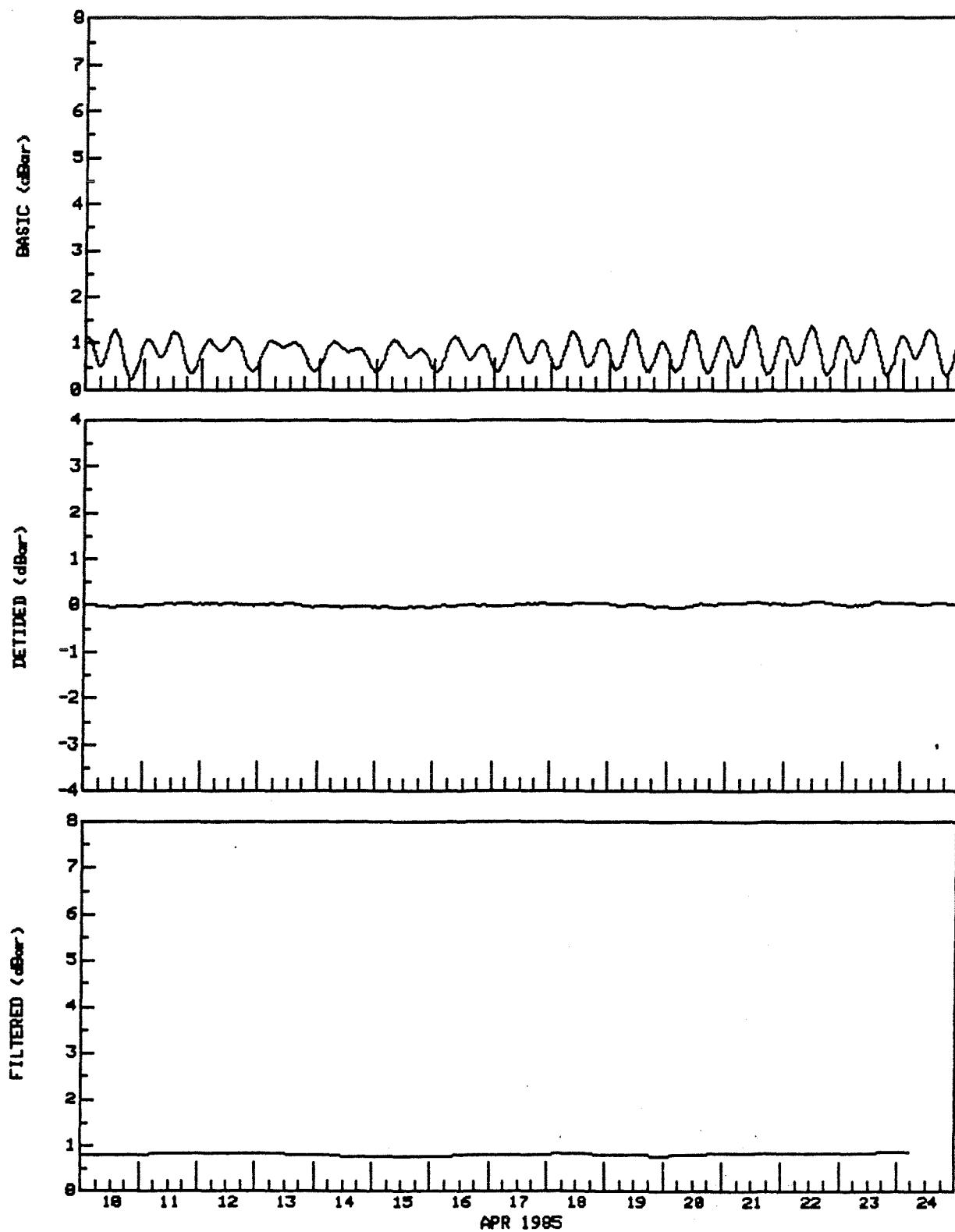
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 60



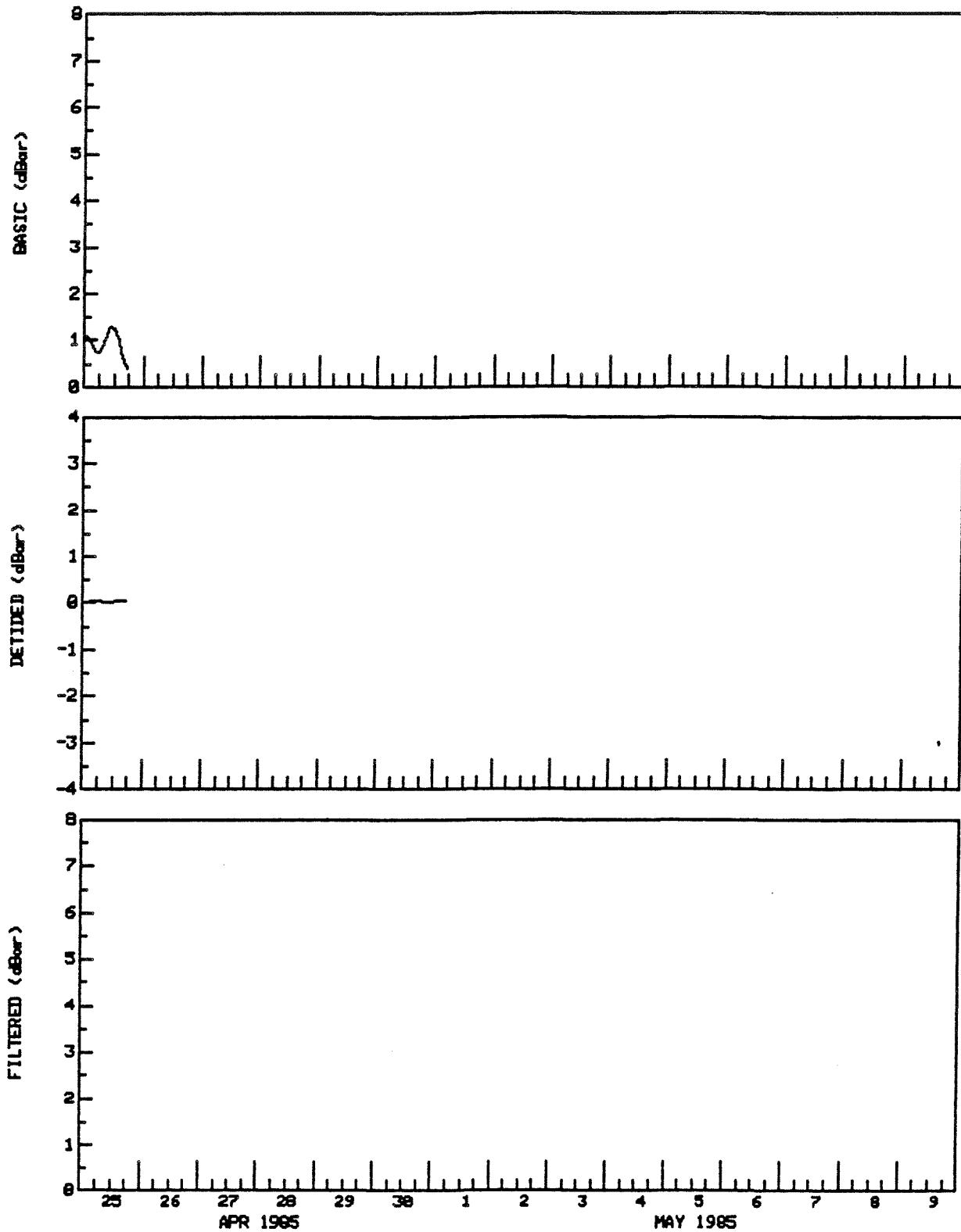
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #9 BROUGHTON ISLAND DEPTH(m) 56 TYPE DESPIKED
67 32' 24"N 63 44' 48"W AANDERAA WLR5 #826 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 10****TIDE GAUGE # 224**

Site # 10: Cape Hooper

Position: 68°24'57"N 66°36'24"W

Tide Gauge #: Aanderaa WLR5 #224

Date/Time of Deployment: 1985/03/02 15:22

Date/Time of Recovery: 1985/04/25 01:31

Sampling Interval: 30 min

Number of Records on Tape: 2802

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.185	0.651	0.226
Detided Pressure	-0.191	0.113	-0.001	0.042
Filtered Pressure	0.510	0.709	0.651	0.039

Data Quality: Timing 1 minute 47 seconds slow

Spikey pressure record

Temperature data very poor

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #10 CAPE HOOPER LAT: 68 24 57.0 N
 DEPTH: 33 M LONG: 66 36 24.0 W
 START: 1600Z 2/ 3/85 END: 1800Z 25/ 4/85
 NO.OBS.= 1299 NO.PTS.ANAL.= 1299 MIDPT: 1700Z 29/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	0.6496	0.00
2	MM	0.00151215	0.0202	192.04
3	MSF	0.00282193	0.0234	157.83
4	ALP1	0.03439657	0.0014	154.92
5	2Q1	0.03570635	0.0042	346.01
6	Q1	0.03721850	0.0009	294.75
7	O1	0.03873065	0.0758	211.21
8	N01	0.04026860	0.0078	261.51
9	P1	0.04155259	0.0736	258.53 INF FR K1
10	K1	0.04178075	0.2230	258.53
11	J1	0.04329290	0.0129	288.12
12	001	0.04483084	0.0084	281.53
13	UPS1	0.04634299	0.0020	195.56
14	EPS2	0.07617730	0.0030	65.59
15	MU2	0.07768947	0.0094	146.96
16	N2	0.07899922	0.0461	205.62
17	M2	0.08051139	0.2045	236.14
18	L2	0.08202356	0.0071	195.05
19	S2	0.08333331	0.0876	296.28
20	K2	0.08356148	0.0237	296.28 INF FR S2
21	ETA2	0.08507365	0.0045	9.91
22	M03	0.11924207	0.0014	27.28
23	M3	0.12076712	0.0016	26.24
24	MK3	0.12229216	0.0013	213.28
25	SK3	0.12511408	0.0018	148.55
26	MN4	0.15951067	0.0008	232.85
27	M4	0.16102278	0.0019	268.64
28	SN4	0.16233259	0.0005	315.15
29	MS4	0.16384470	0.0027	4.40
30	S4	0.16666669	0.0004	55.08
31	2MK5	0.20280355	0.0007	237.93
32	2SK5	0.20844740	0.0011	42.09
33	2MN6	0.24002206	0.0051	186.80
34	M6	0.24153417	0.0075	247.41
35	2MS6	0.24435616	0.0079	313.95
36	2SM6	0.24717808	0.0023	50.48
37	3MK7	0.28331494	0.0007	233.43
38	M8	0.32204562	0.0001	350.49

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #10 CAPE HOOPER

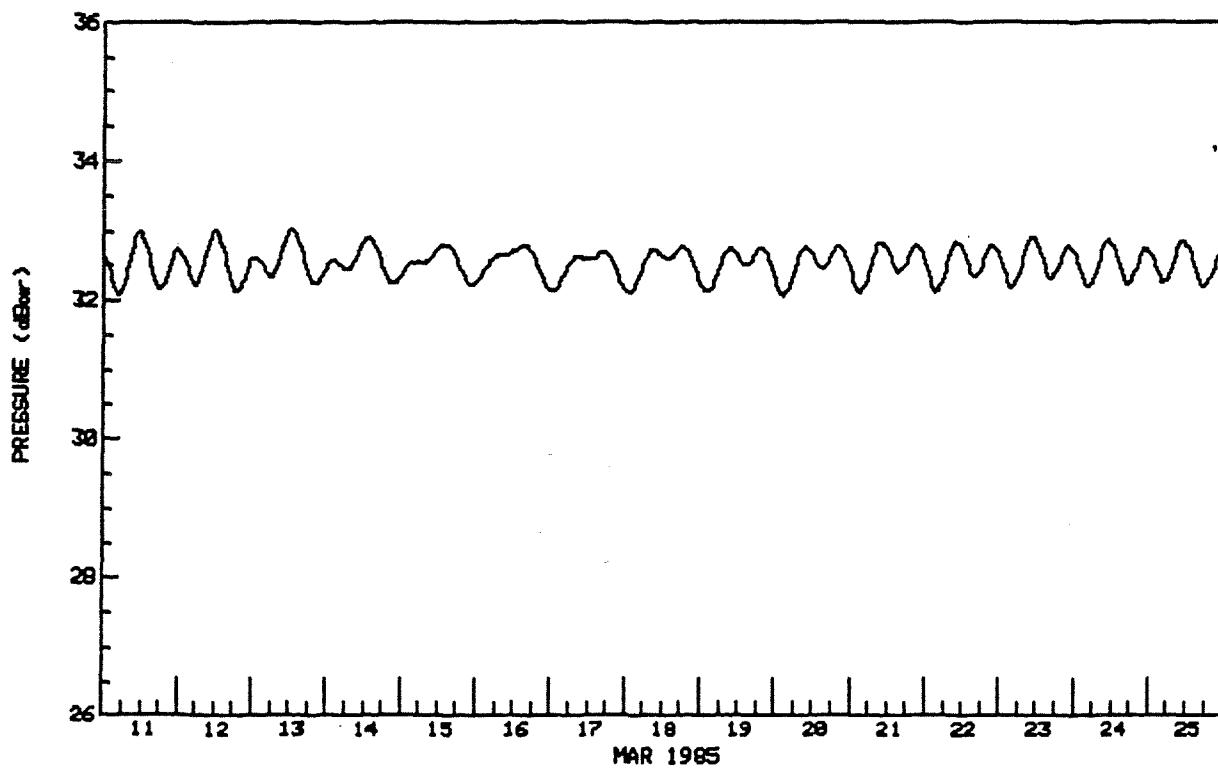
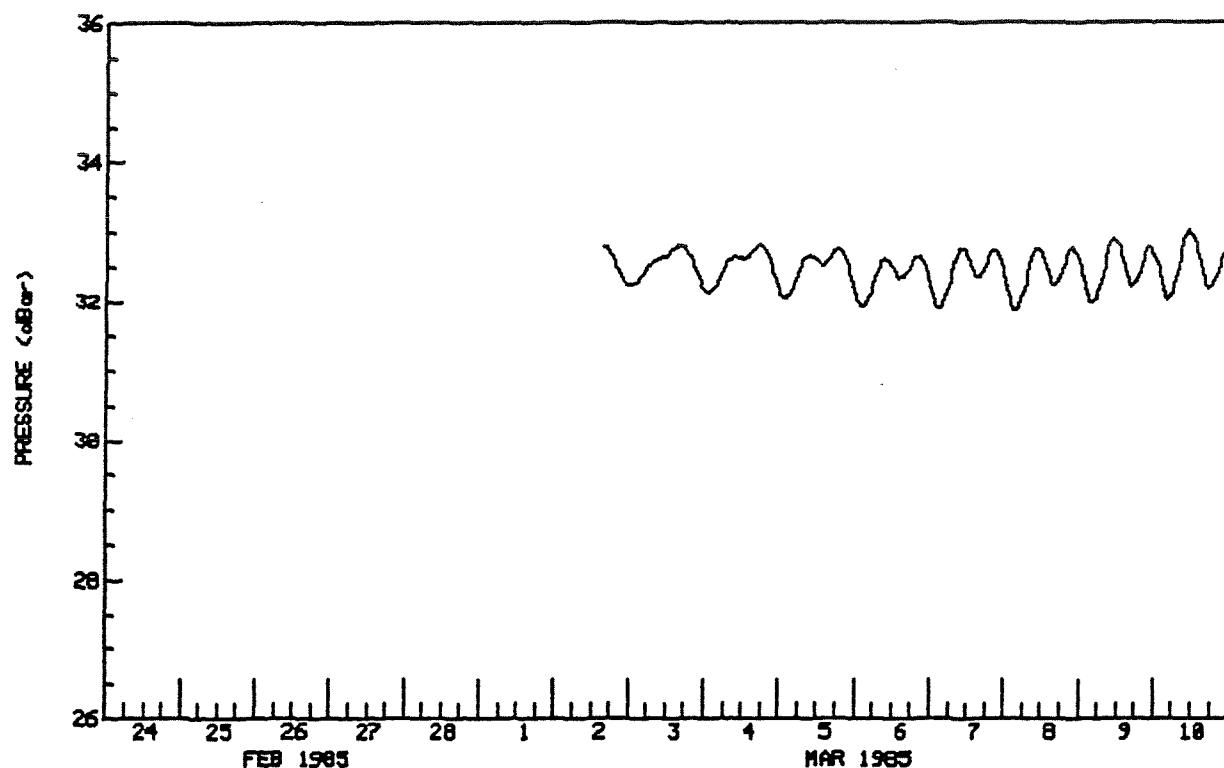
68 24' 57"N 66 36' 24"W

DEPTH(m) 33

AANDERAA WLR5 #224

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #10 CAPE HOOPER

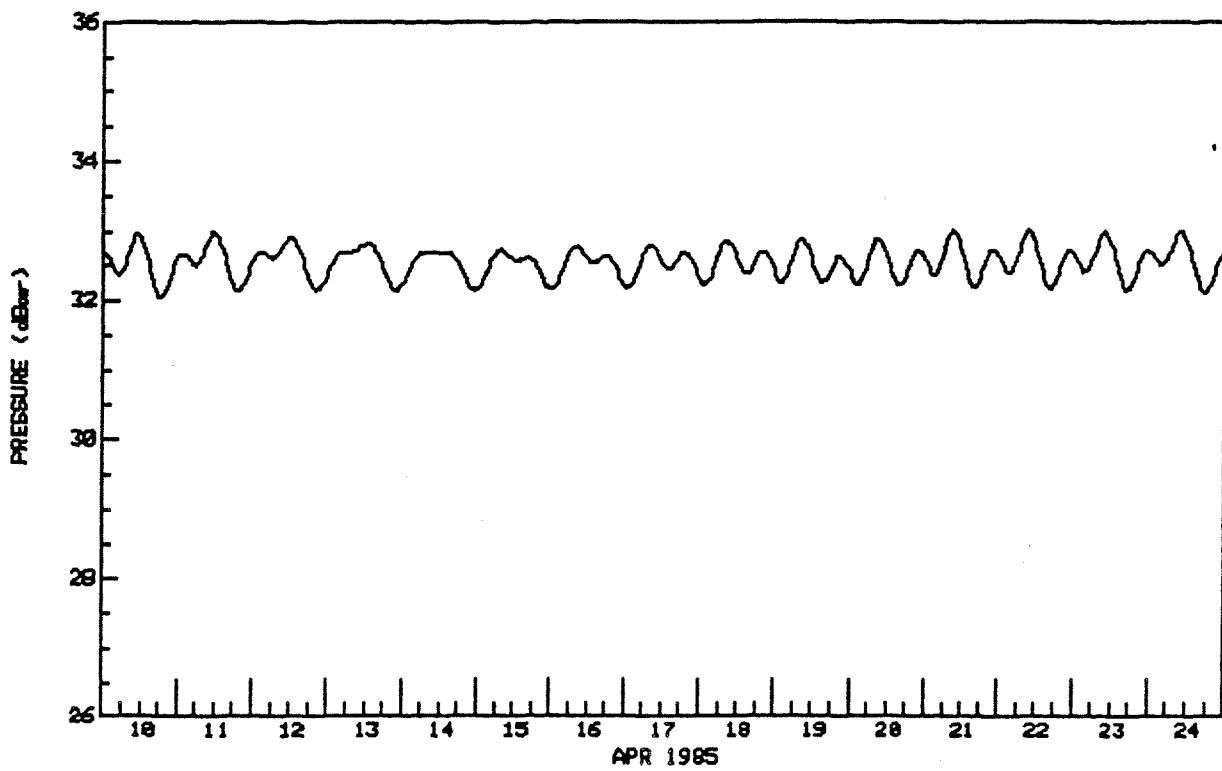
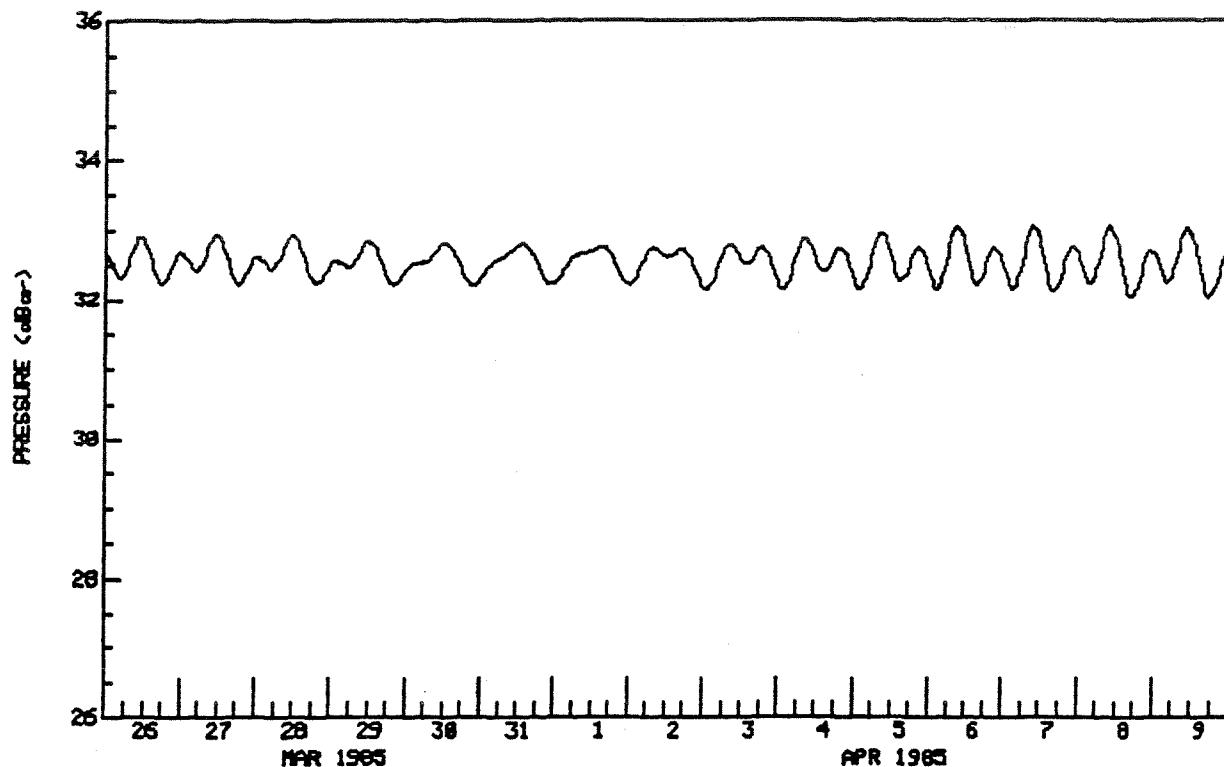
68 24' 57"N 66 36' 24"W

DEPTH(m) 33

AANDERAA WLR5 #224

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #10 CAPE HOOPER

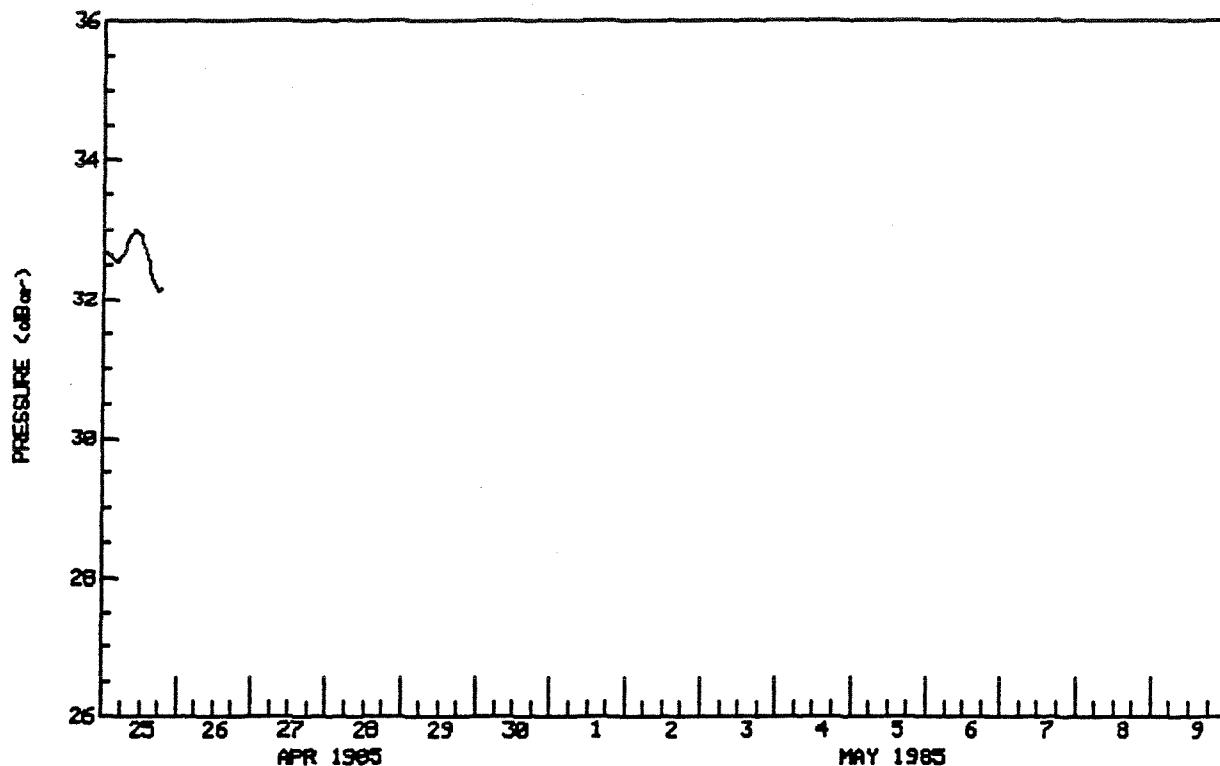
DEPTH(m) 33

TYPE DESPIKED

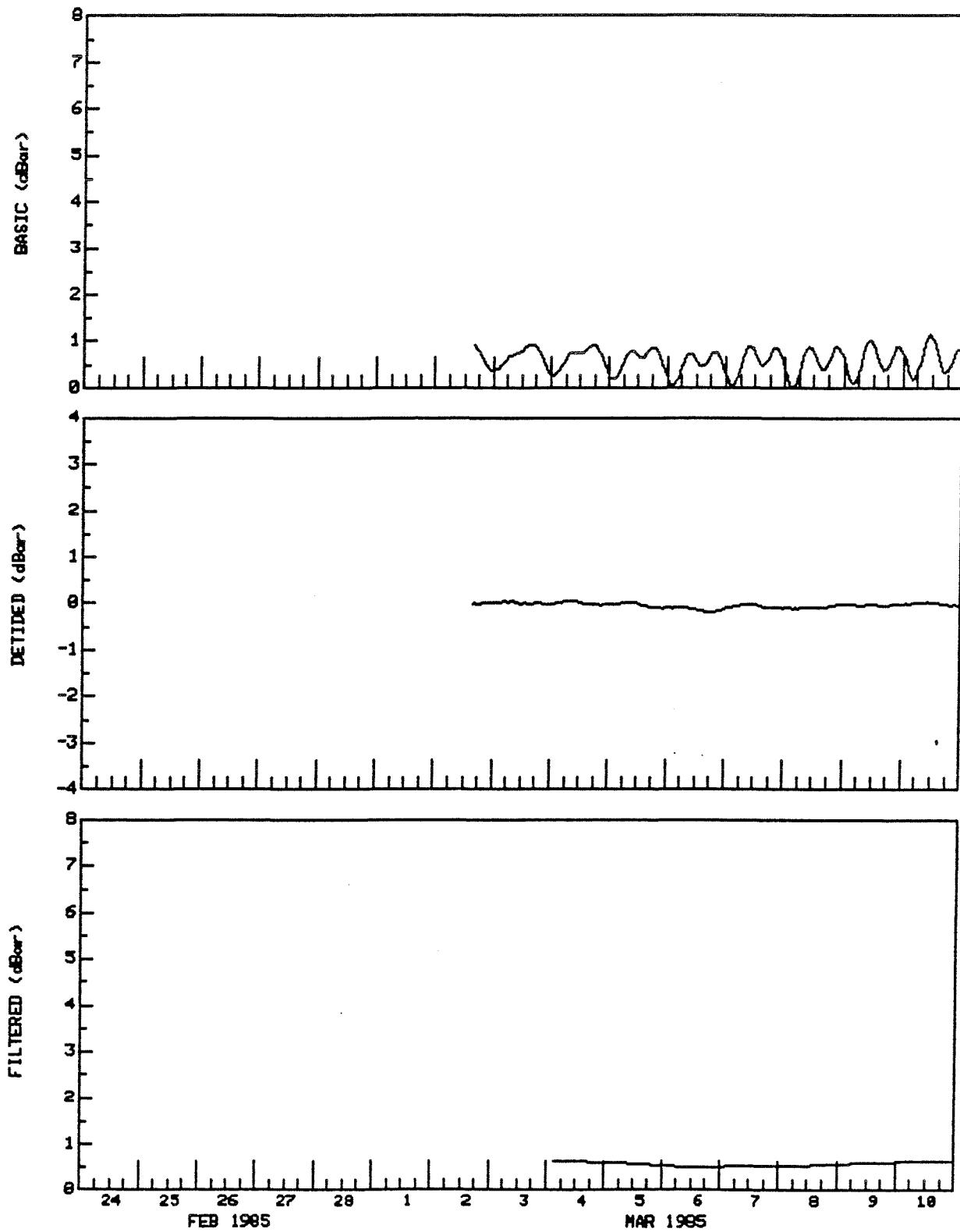
68 24' 57"N 66 36' 24"W

AANDERAA WLR5 #224

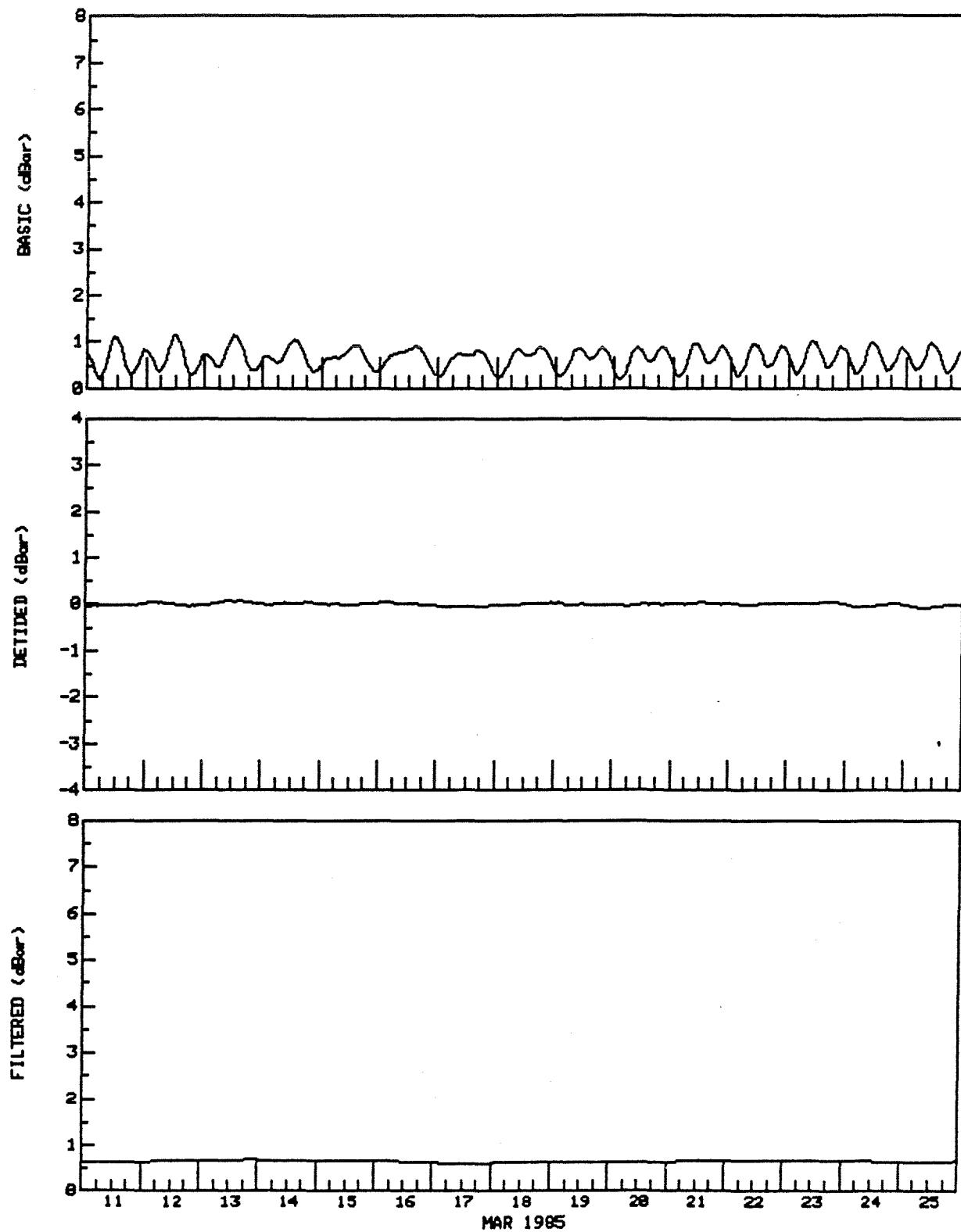
DT(min) 30



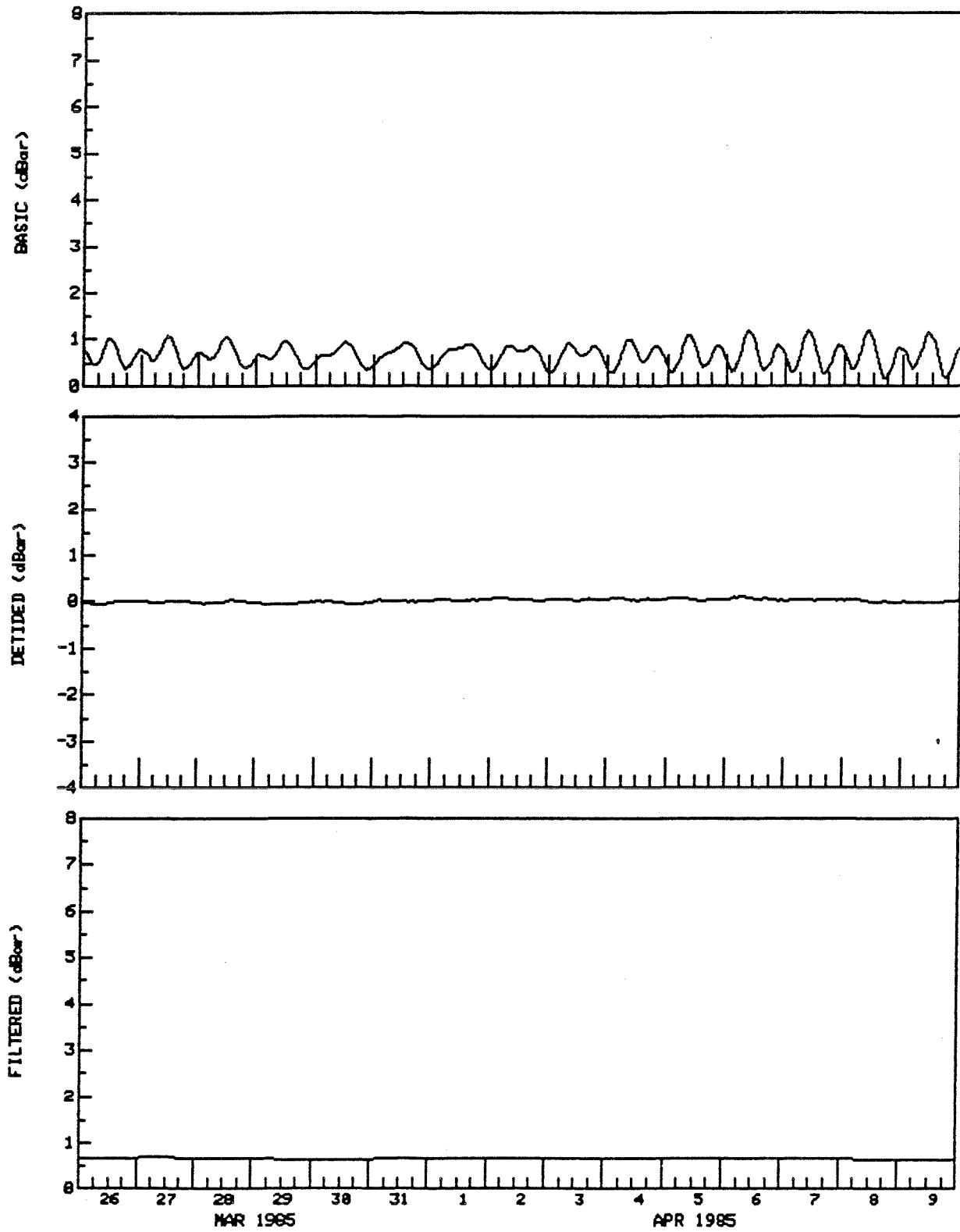
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #10 CAPE HOOPER DEPTH(m) 33 TYPE DESPIKED
68 24' 57"N 66 36' 24"W AANDERAA WLR5 #224 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #10 CAPE HOOPER DEPTH(m) 33 TYPE DESPIKED
68 24' 57"N 66 36' 24"W AANDERAA WLR5 #224 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #10 CAPE HOOPER DEPTH(m) 33 TYPE DESPIKED
68 24' 57"N 66 36' 24"W AANDERAA WLR5 #224 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #10 CAPE HOOPER

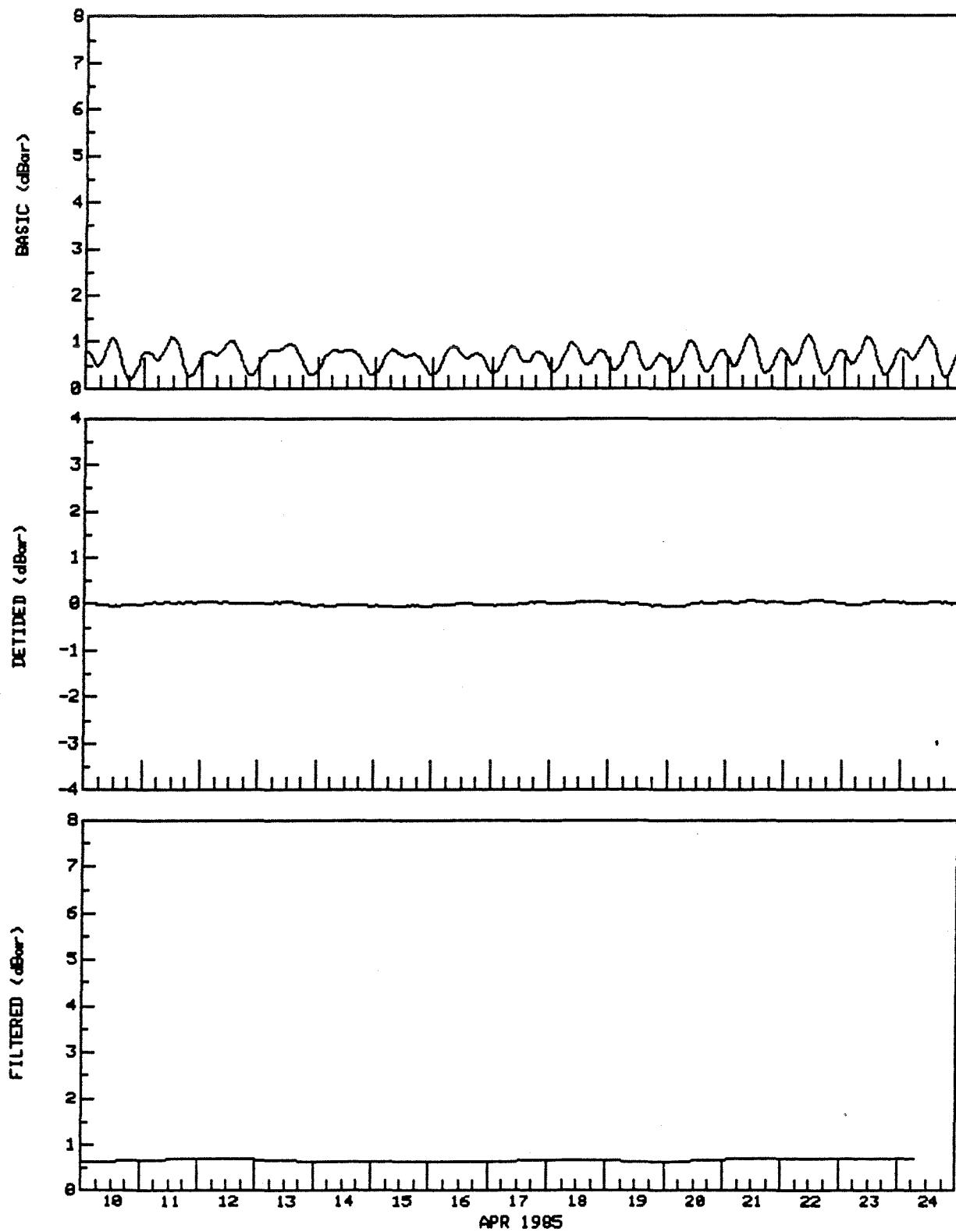
DEPTH(m) 33

TYPE DESPIKED

68 24' 57"N 66 36' 24"W

AANDERAA WLR5 #224

DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #10 CAPE HOOPER

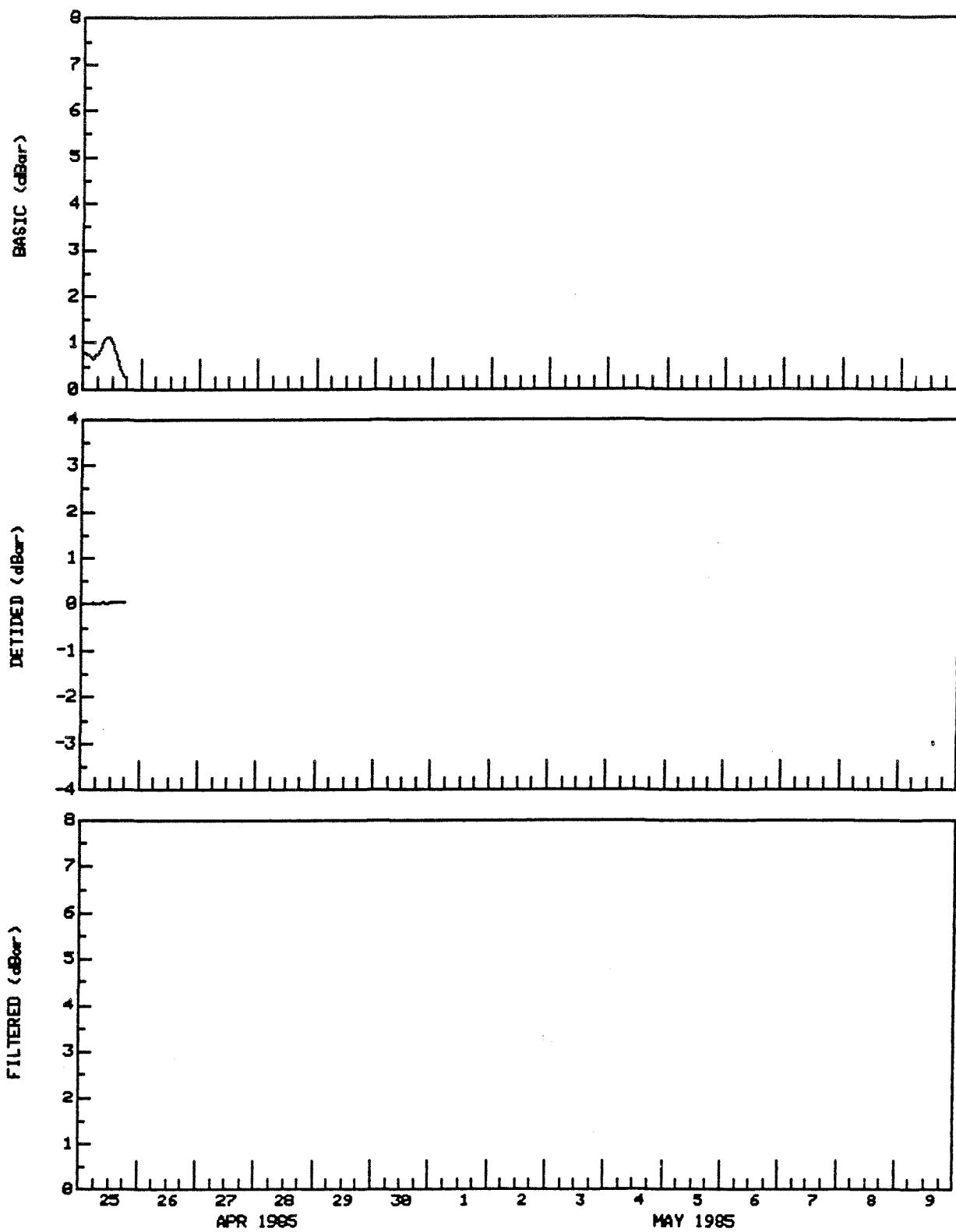
DEPTH(m) 33

TYPE DESPIKED

68 24' 57"N 66 36' 24"W

AANDERAA WLR5 #224

DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 11****TIDE GAUGE # 345**

Site # 11: Aulitiving Island

Position: 66°05'00"N 65°55'32"W

Tide Gauge #: Aanderaa WLR5 #345

Date/Time of Deployment: 1985/03/02 17:09

Date/Time of Recovery: 1985/04/25 19:49

Sampling Interval: 30 min

Number of Records on Tape: 2799

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.246	0.617	0.220
Detided Pressure	-0.264	0.145	-0.001	0.049
Filtered Pressure	0.483	0.662	0.617	0.036

Data Quality: Timing 22 seconds slow

Fairly spiky pressure record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

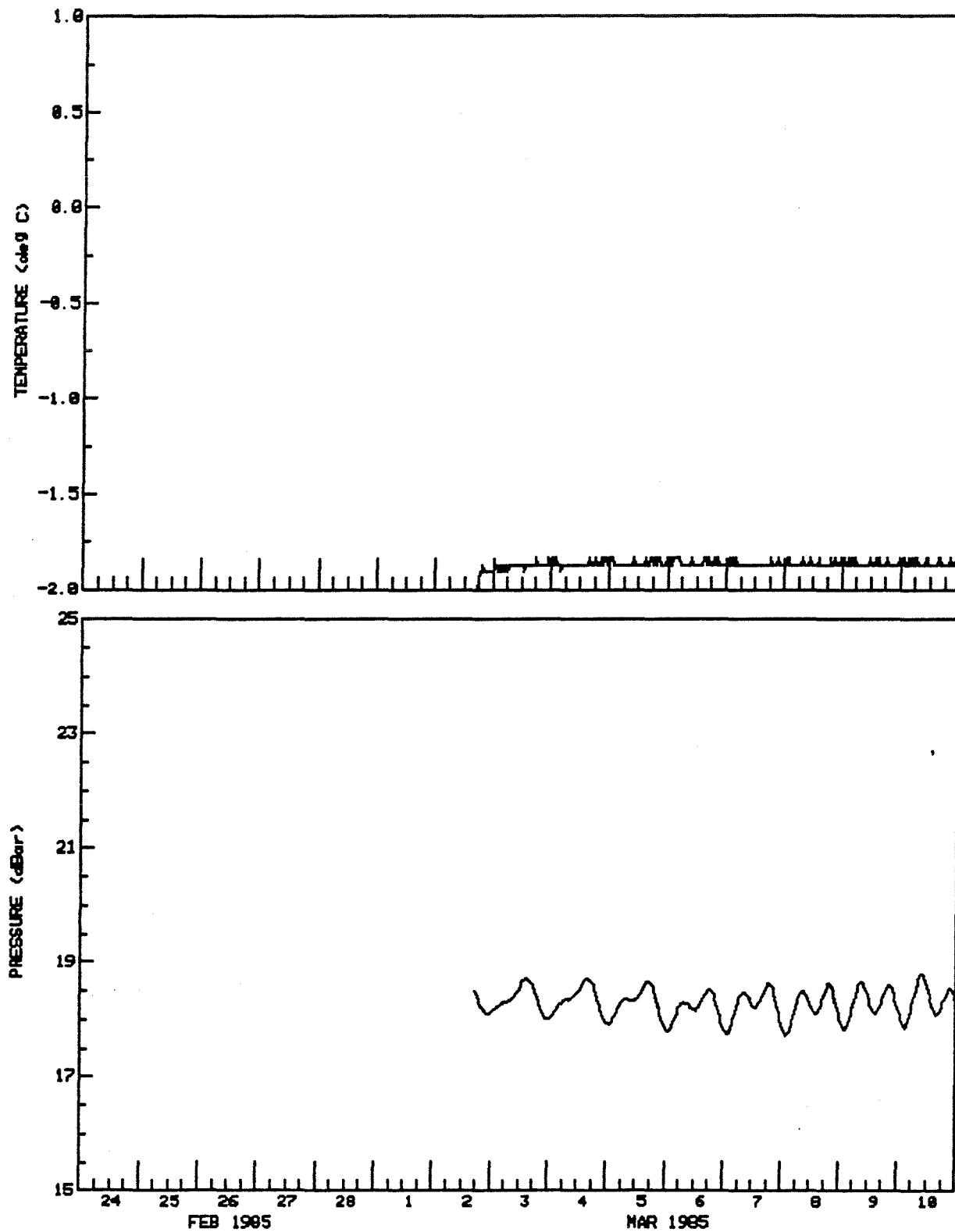
ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #11 AULITIVING ISLAND LAT: 69 31 6.0 N
 DEPTH: 19 M LONG: 67 8 30.0 W
 START: 1800Z 2/ 3/85 END: 1700Z 20/ 4/85
 NO.OBS.= 1176 NO.PTS.ANAL.= 1176 MIDPT: 500Z 27/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	---	-----	---	---
1	Z0	0.00000000	0.6137	0.00
2	MM	0.00151215	0.0090	154.68
3	MSF	0.00282193	0.0202	188.64
4	ALP1	0.03439657	0.0028	213.11
5	2Q1	0.03570635	0.0050	351.75
6	Q1	0.03721850	0.0072	242.28
7	O1	0.03873065	0.0739	213.12
8	N01	0.04026860	0.0133	227.36
9	P1	0.04155259	0.0751	260.75 INF FR K1
10	K1	0.04178075	0.2275	260.75
11	J1	0.04329290	0.0161	269.77
12	001	0.04483084	0.0066	280.51
13	UPS1	0.04634299	0.0020	207.74
14	EPS2	0.07617730	0.0066	139.58
15	MU2	0.07768947	0.0145	76.63
16	N2	0.07899922	0.0651	174.86
17	M2	0.08051139	0.1871	203.51
18	L2	0.08202356	0.0123	263.89
19	S2	0.08333331	0.0679	269.48
20	K2	0.08356148	0.0183	269.48 INF FR S2
21	ETA2	0.08507365	0.0045	178.50
22	M03	0.11924207	0.0004	304.44
23	M3	0.12076712	0.0019	3.40
24	MK3	0.12229216	0.0009	211.96
25	SK3	0.12511408	0.0010	220.32
26	MN4	0.15951067	0.0002	164.58
27	M4	0.16102278	0.0014	259.51
28	SN4	0.16233259	0.0011	284.21
29	MS4	0.16384470	0.0016	9.30
30	S4	0.16666669	0.0013	47.88
31	2MK5	0.20280355	0.0001	207.06
32	2SK5	0.20844740	0.0013	62.04
33	2MN6	0.24002206	0.0046	203.46
34	M6	0.24153417	0.0041	236.13
35	2MS6	0.24435616	0.0046	309.79
36	2SM6	0.24717808	0.0014	81.04
37	3MK7	0.28331494	0.0008	315.21
38	M8	0.32204562	0.0008	183.91

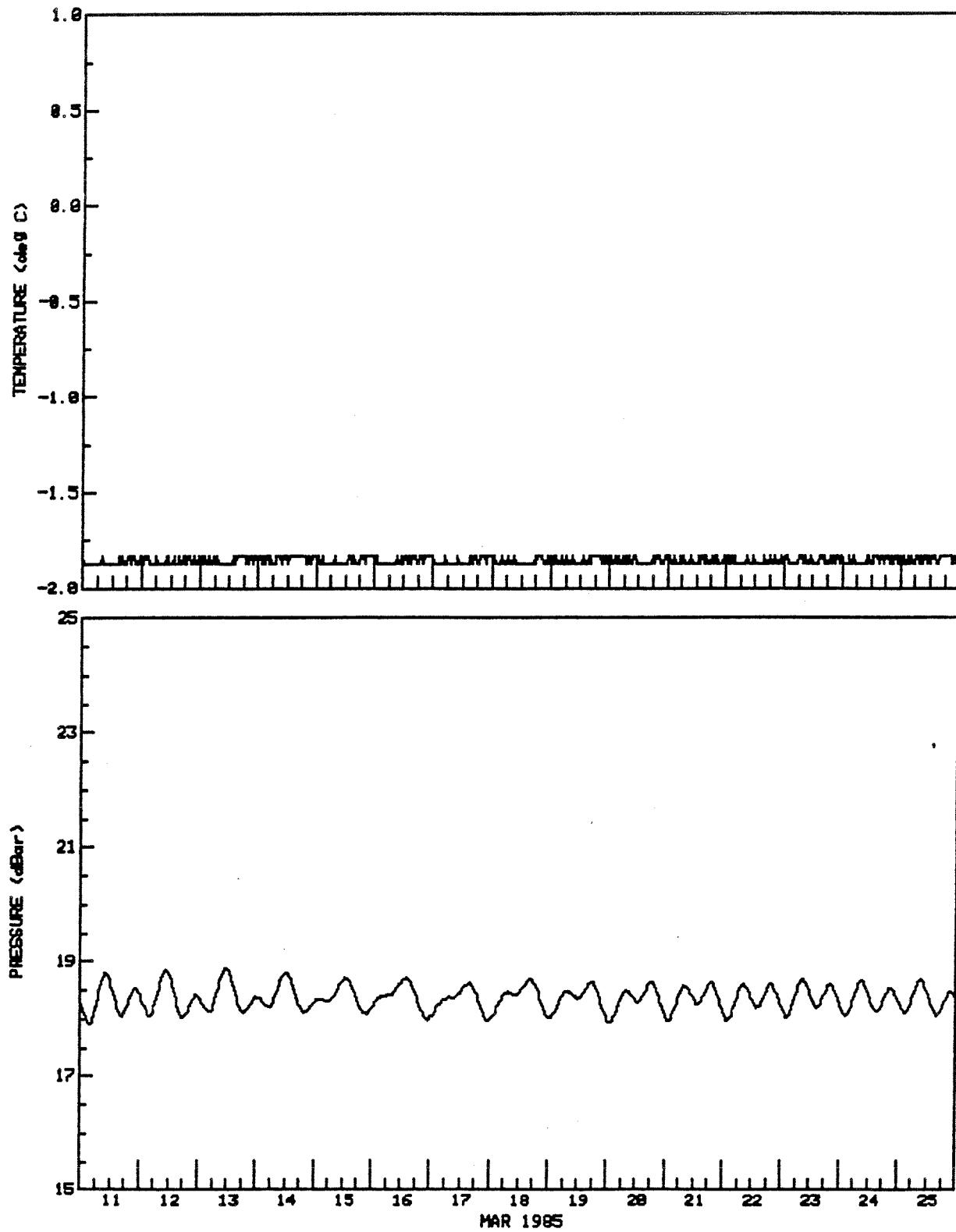
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #11 AULITIVING ISLAND DEPTH(m) 18 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #345 DT(min) 30



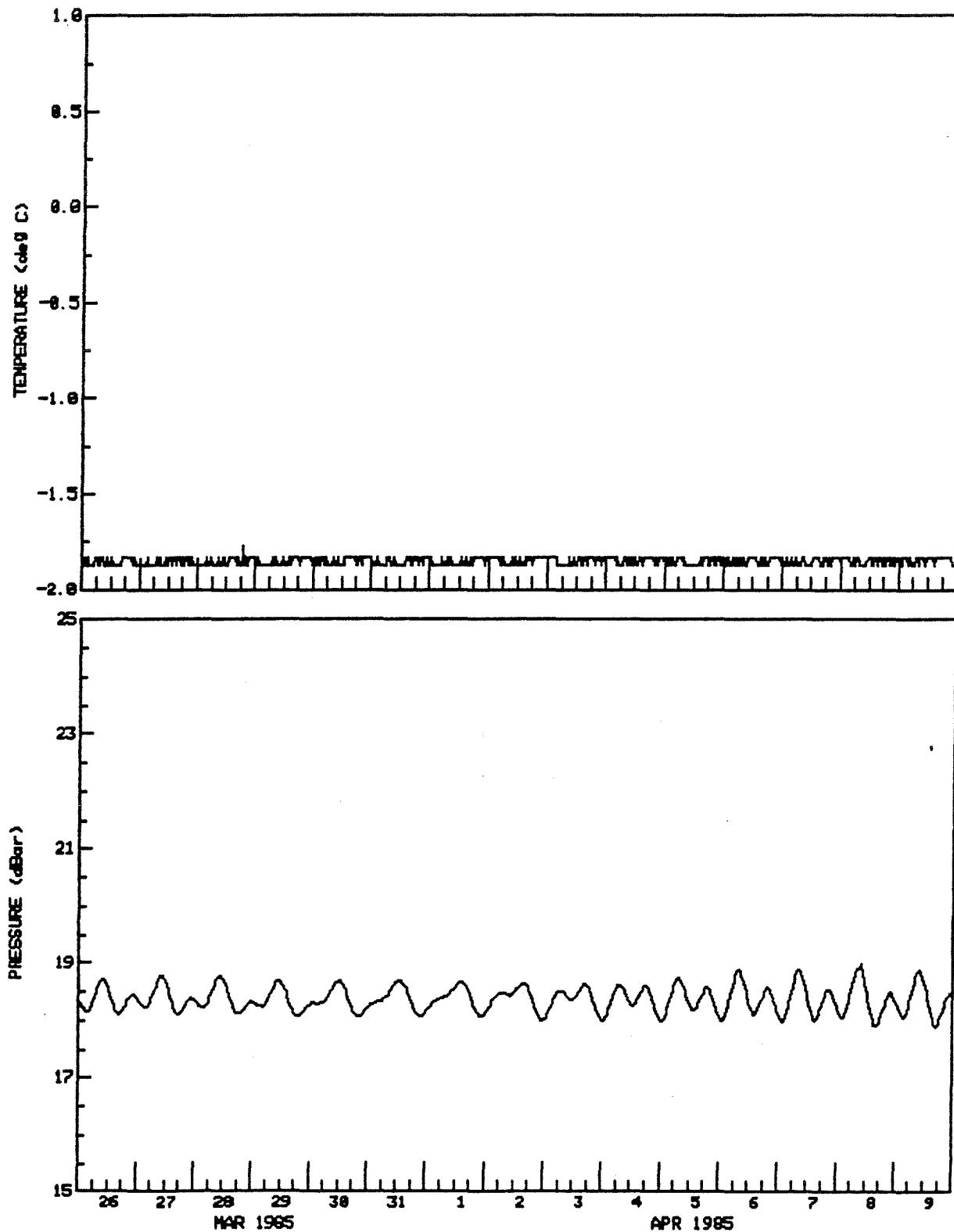
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #11 AULITIVING ISLAND DEPTH(m) 18 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #345 DT(min) 30



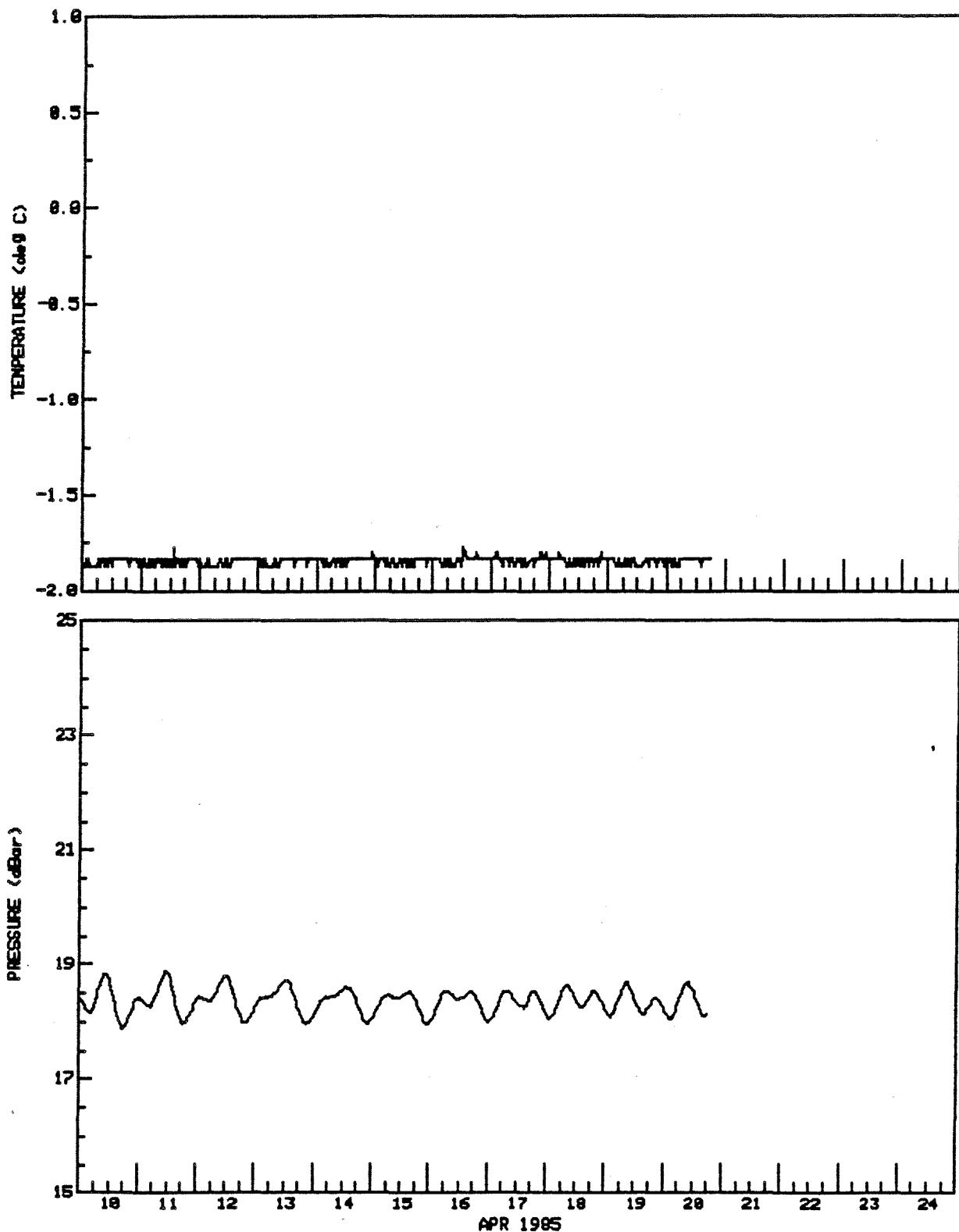
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #11 AULITIVING ISLAND DEPTH(m) 18 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #345 DT(min) 30

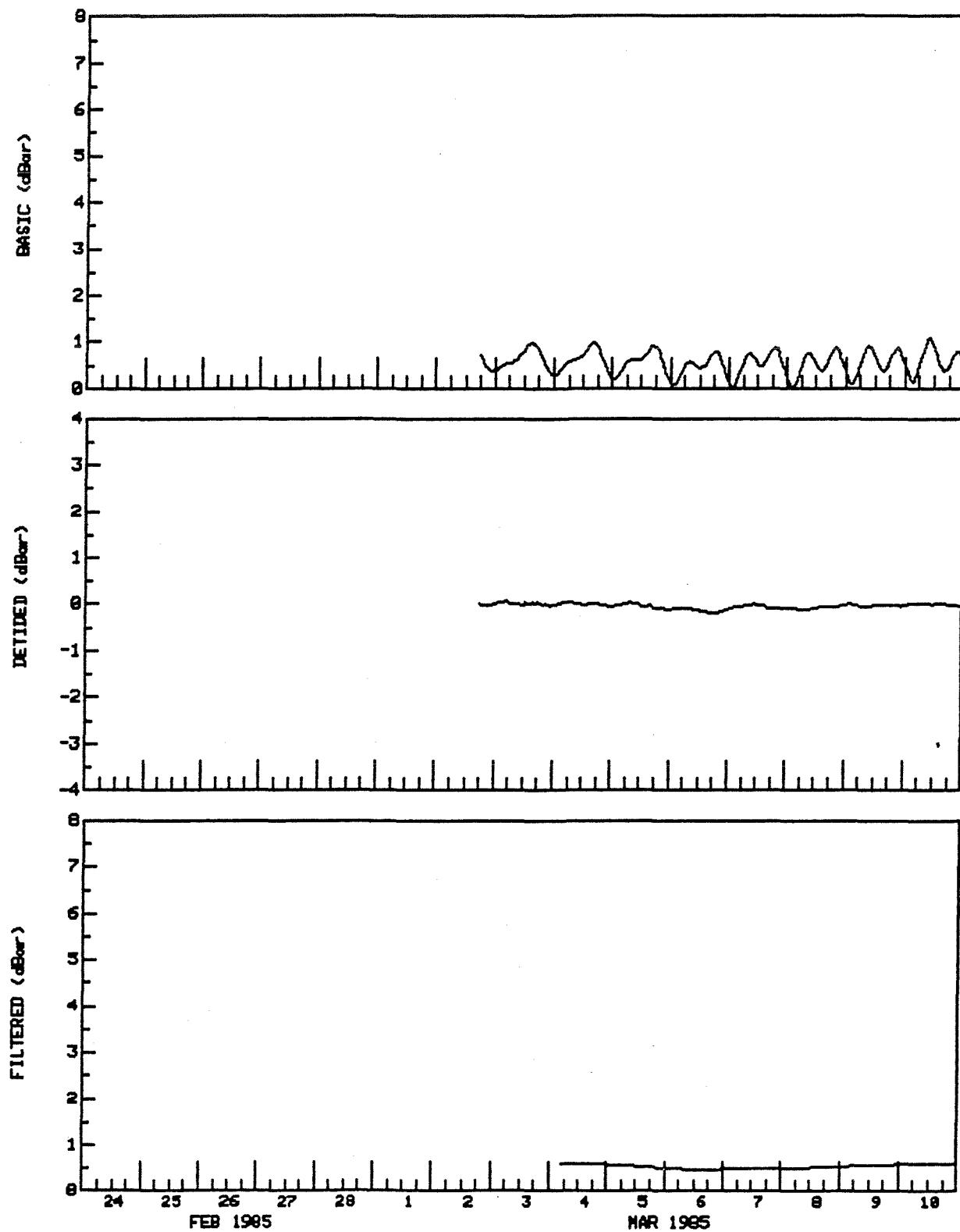


EASTERN ARCTIC TIDAL SURVEY, 1985

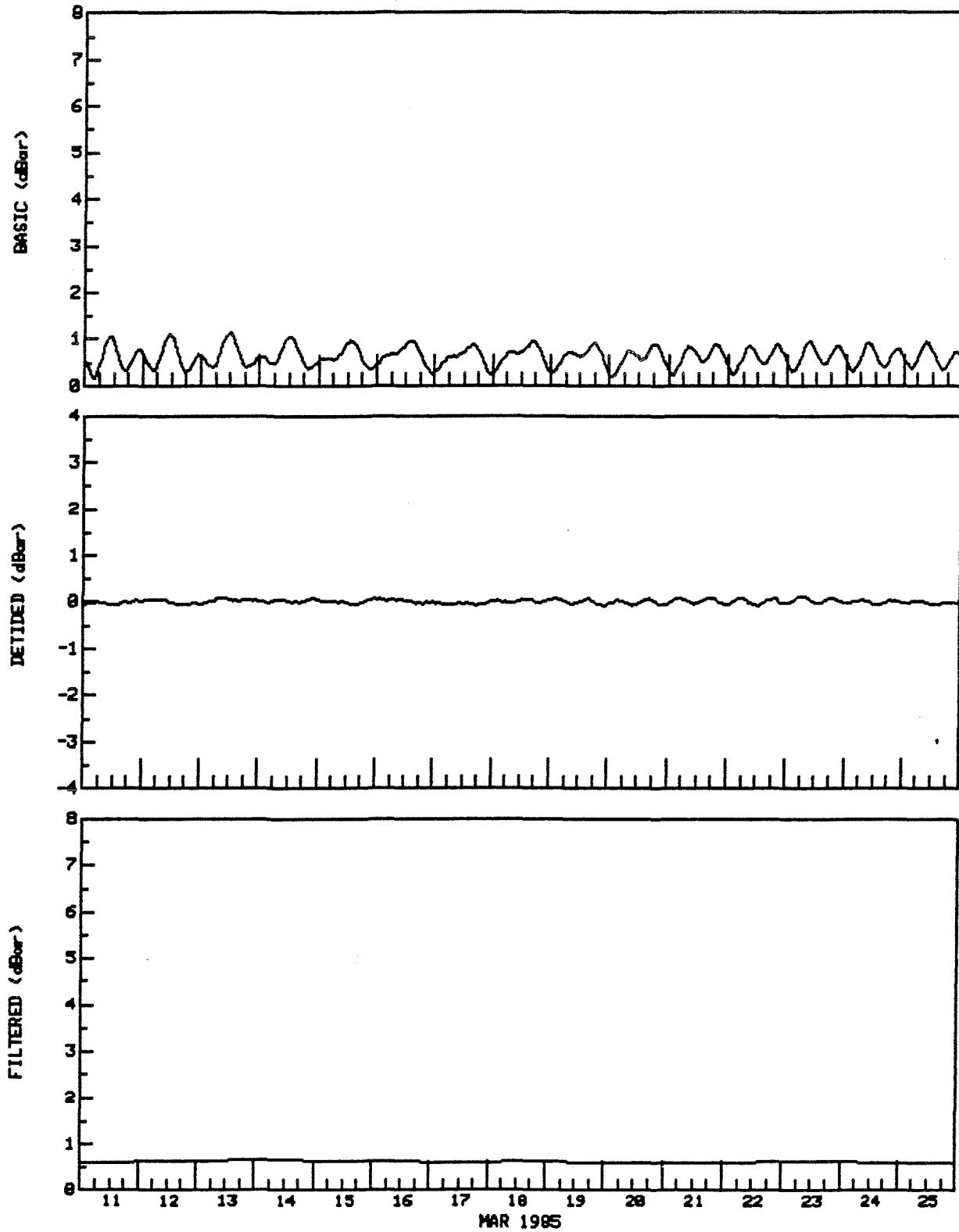
SITE #11 AULITIVING ISLAND DEPTH(m) 18 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #345 DT(min) 30



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #11 AULITIVING ISLAND DEPTH(m) 18 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #345 DT(min) 60

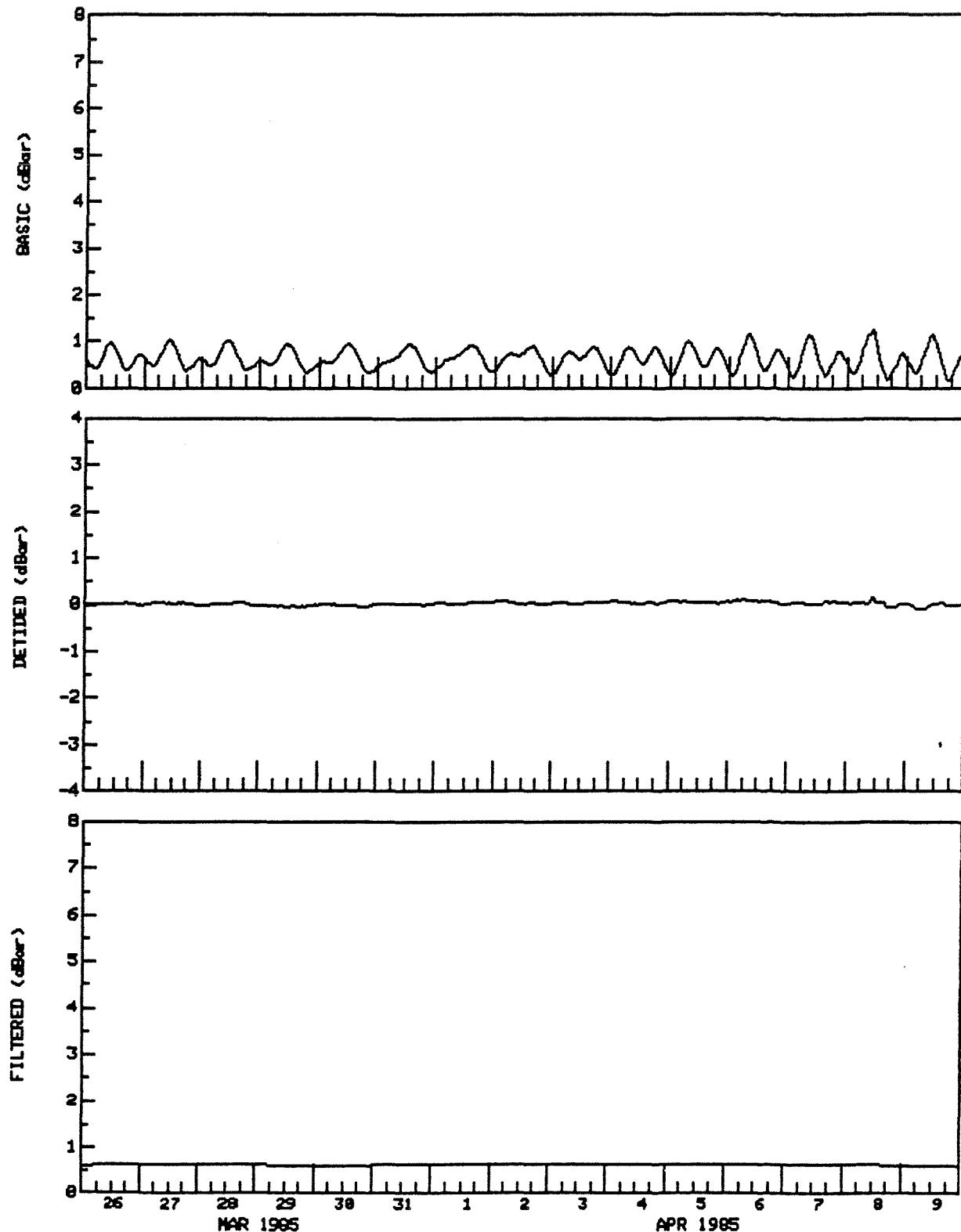


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #11 AULITIVING ISLAND DEPTH(m) 18 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #345 DT(min) 60

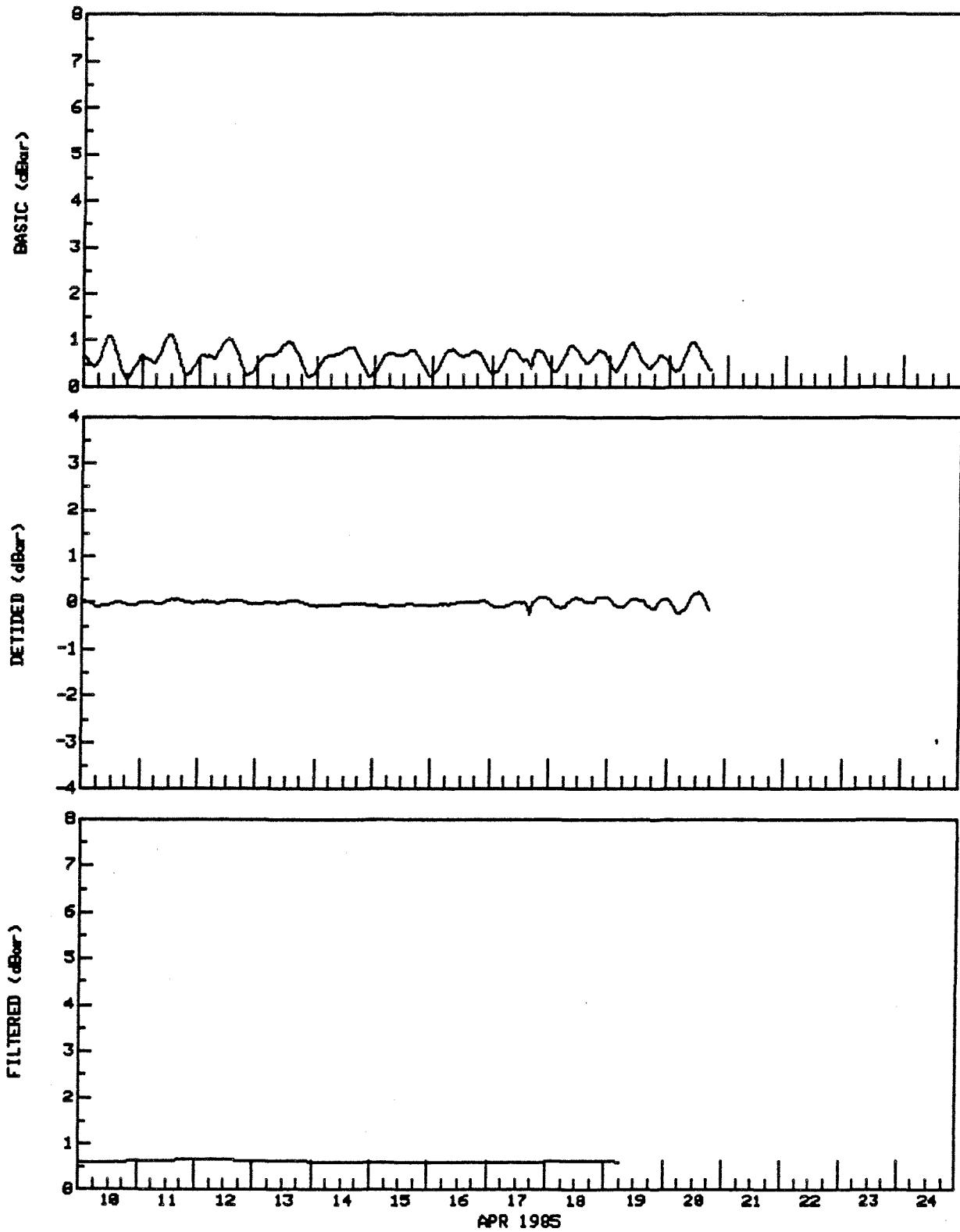


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #11 AULITIVING ISLAND DEPTH(m) 18 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #345 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #11 AULITIVING ISLAND DEPTH(m) 18 TYPE DESPIKED
66 05' 00"N 65 55' 32"W AANDERAA WLR5 #345 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 12****TIDE GAUGE # 342**

Site # 12: Cape Christian

Position: 70°30'55"N 68°12'40"W

Tide Gauge #: Aanderaa WLR5 #342

Date/Time of Deployment: 1985/03/02 18:21

Date/Time of Recovery: 1985/04/25 20:57

Sampling Interval: 30 min

Number of Records on Tape: 2756

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	0.764	0.387	0.133
Detided Pressure	-0.161	0.160	0.004	0.057
Filtered Pressure	0.248	0.523	0.387	0.068

Data Quality: Timing 21 seconds slow

Clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

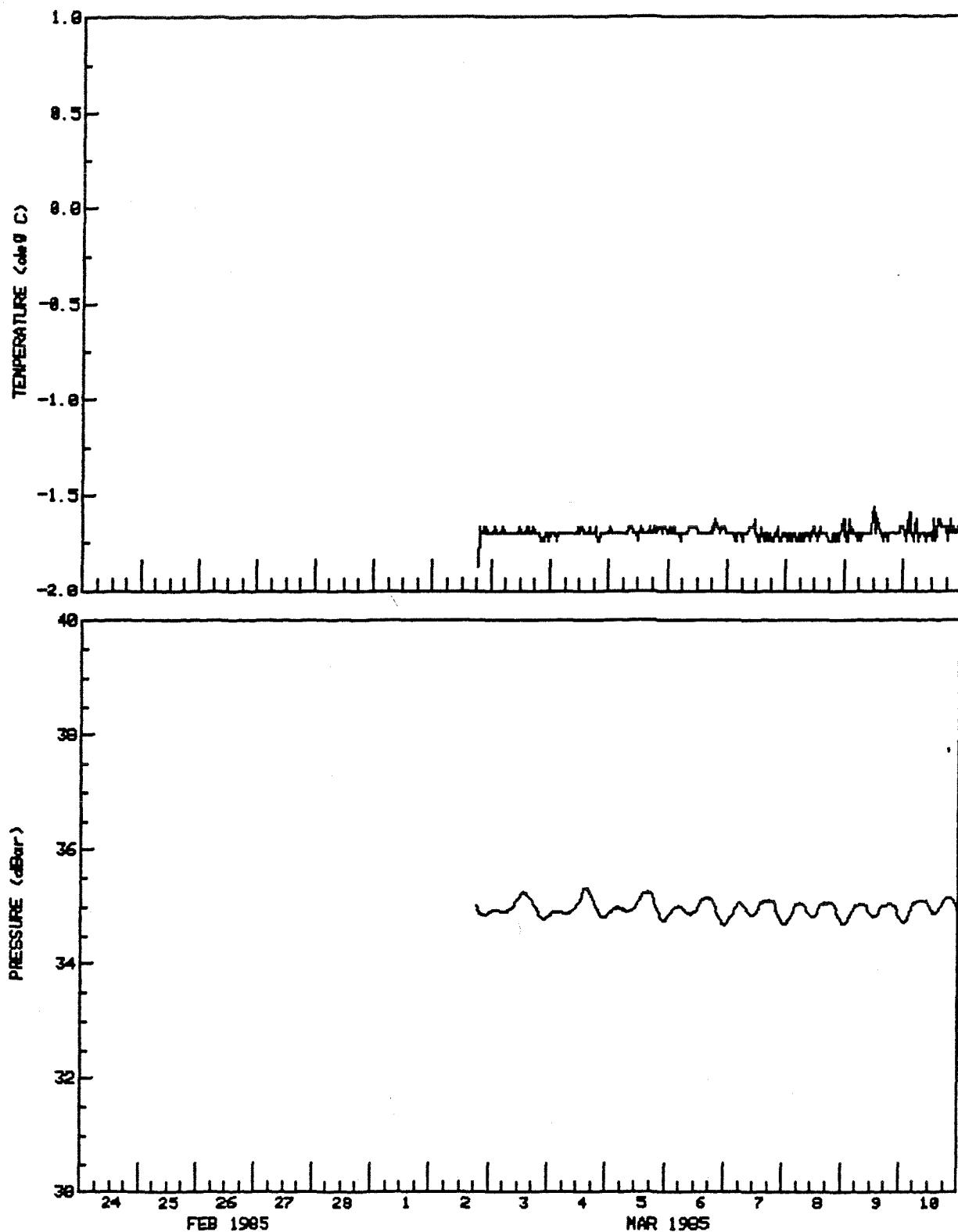
ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #12 CAPE CHRISTIAN LAT: 70 30 55.0 N
 DEPTH: 35 M LONG: 68 12 40.0 W
 START: 1900Z 2/ 3/85 END: 2000Z 25/ 4/85
 NO.OBS.= 1298 NO.PTS.ANAL.= 1298 MIDPT: 1900Z 29/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	---
1	Z0	0.00000000	0.3821	0.00
2	MM	0.00151215	0.0545	191.07
3	MSF	0.00282193	0.0336	132.99
4	ALP1	0.03439657	0.0036	4.42
5	2Q1	0.03570635	0.0062	349.42
6	Q1	0.03721850	0.0048	334.53
7	01	0.03873065	0.0348	206.06
8	N01	0.04026860	0.0051	319.42
9	P1	0.04155259	0.0349	255.99 INF FR K1
10	K1	0.04178075	0.1058	255.99
11	J1	0.04329290	0.0049	295.01
12	001	0.04483084	0.0035	253.68
13	UPS1	0.04634299	0.0037	181.28
14	EPS2	0.07617730	0.0020	314.93
15	MU2	0.07768947	0.0060	96.26
16	N2	0.07899922	0.0242	132.64
17	M2	0.08051139	0.1106	151.29
18	L2	0.08202356	0.0078	156.96
19	S2	0.08333331	0.0342	194.86
20	K2	0.08356148	0.0092	194.86 INF FR S2
21	ETA2	0.08507365	0.0026	338.28
22	M03	0.11924207	0.0066	204.36
23	M3	0.12076712	0.0052	69.84
24	MK3	0.12229216	0.0063	218.72
25	SK3	0.12511408	0.0039	307.14
26	MN4	0.15951067	0.0062	69.57
27	M4	0.16102278	0.0075	101.39
28	SN4	0.16233259	0.0033	208.77
29	MS4	0.16384470	0.0021	192.07
30	S4	0.16666669	0.0007	299.19
31	2MK5	0.20280355	0.0021	348.43
32	2SK5	0.20844740	0.0007	136.35
33	2MN6	0.24002206	0.0026	211.42
34	M6	0.24153417	0.0026	223.04
35	2MS6	0.24435616	0.0010	303.20
36	2SM6	0.24717808	0.0004	335.44
37	3MK7	0.28331494	0.0002	147.33
38	M8	0.32204562	0.0010	141.02

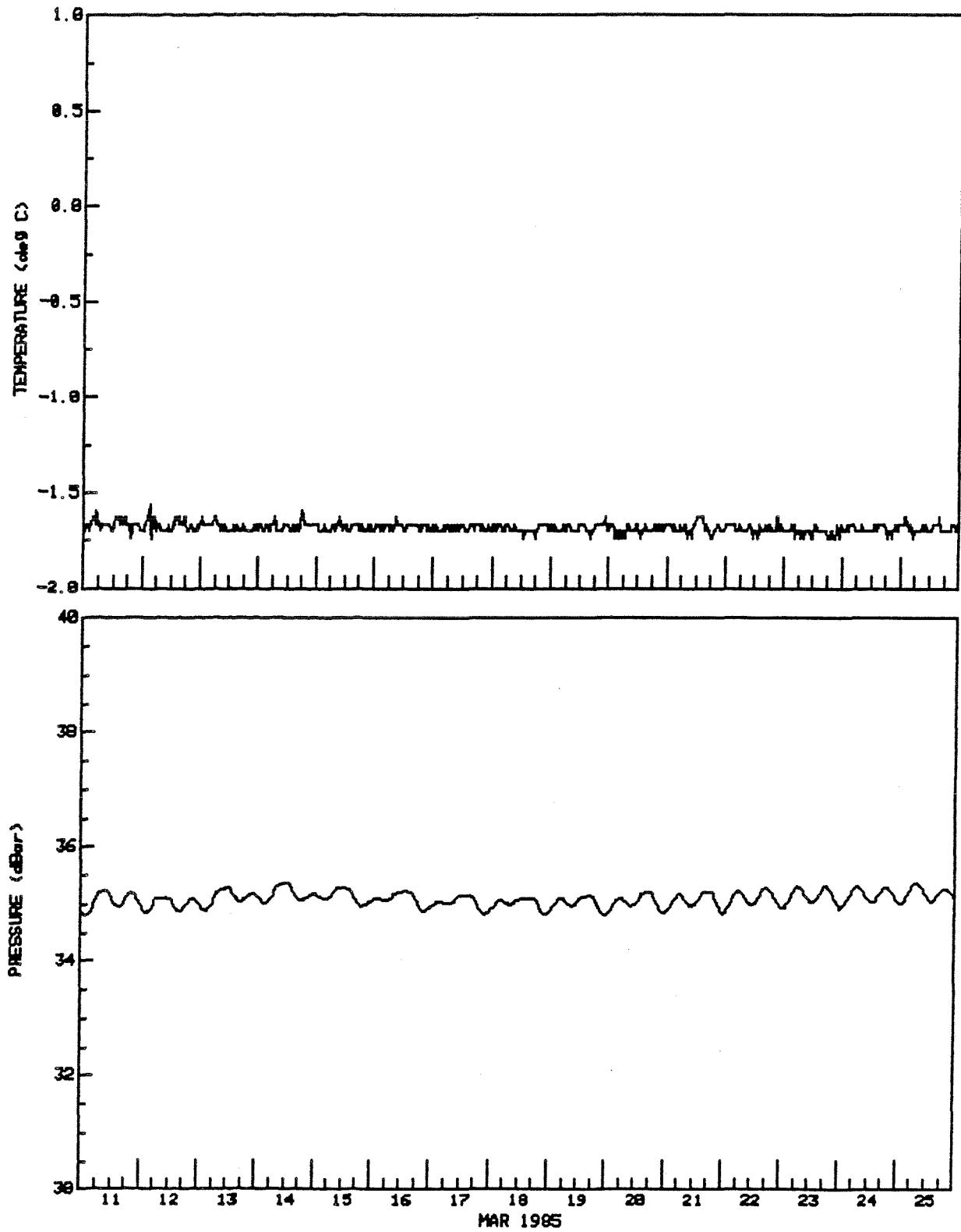
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #12 CAPE CHRISTIAN DEPTH(m) 35 TYPE DESPIKED
70 30' 55"N 68 12' 40"W AANDERAA WLR5 #342 DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #12 CAPE CHRISTIAN DEPTH(m) 35 TYPE DESPIKED
70 30' 55"N 68 12' 40"W AANDERAA WLR5 #342 DT(min) 30

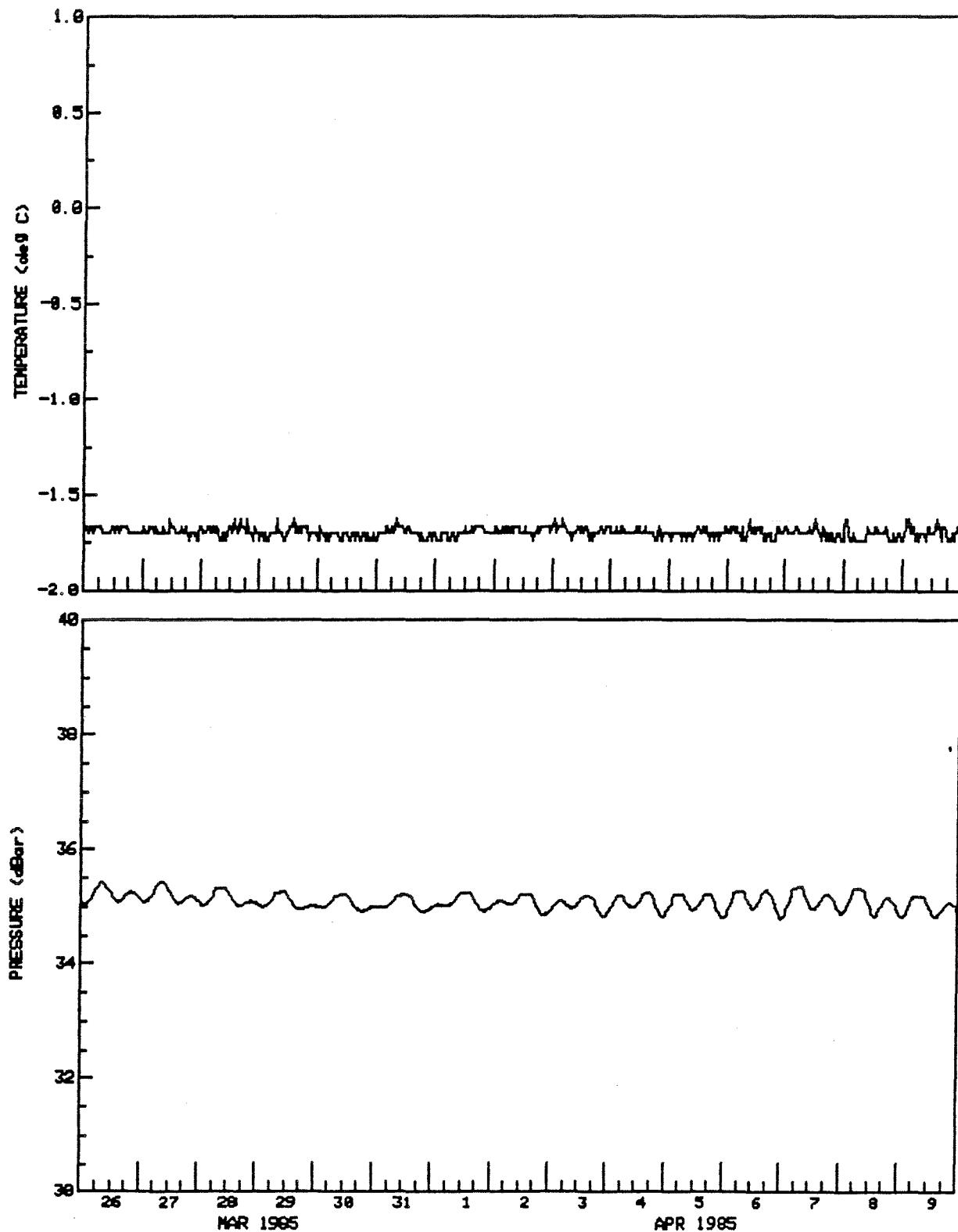


EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #12 CAPE CHRISTIAN
70 30' 55"N

DEPTH(m) 35

AANDERAA WLR5 #342

TYPE DESPIKED
DT(min) 30

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #12 CAPE CHRISTIAN

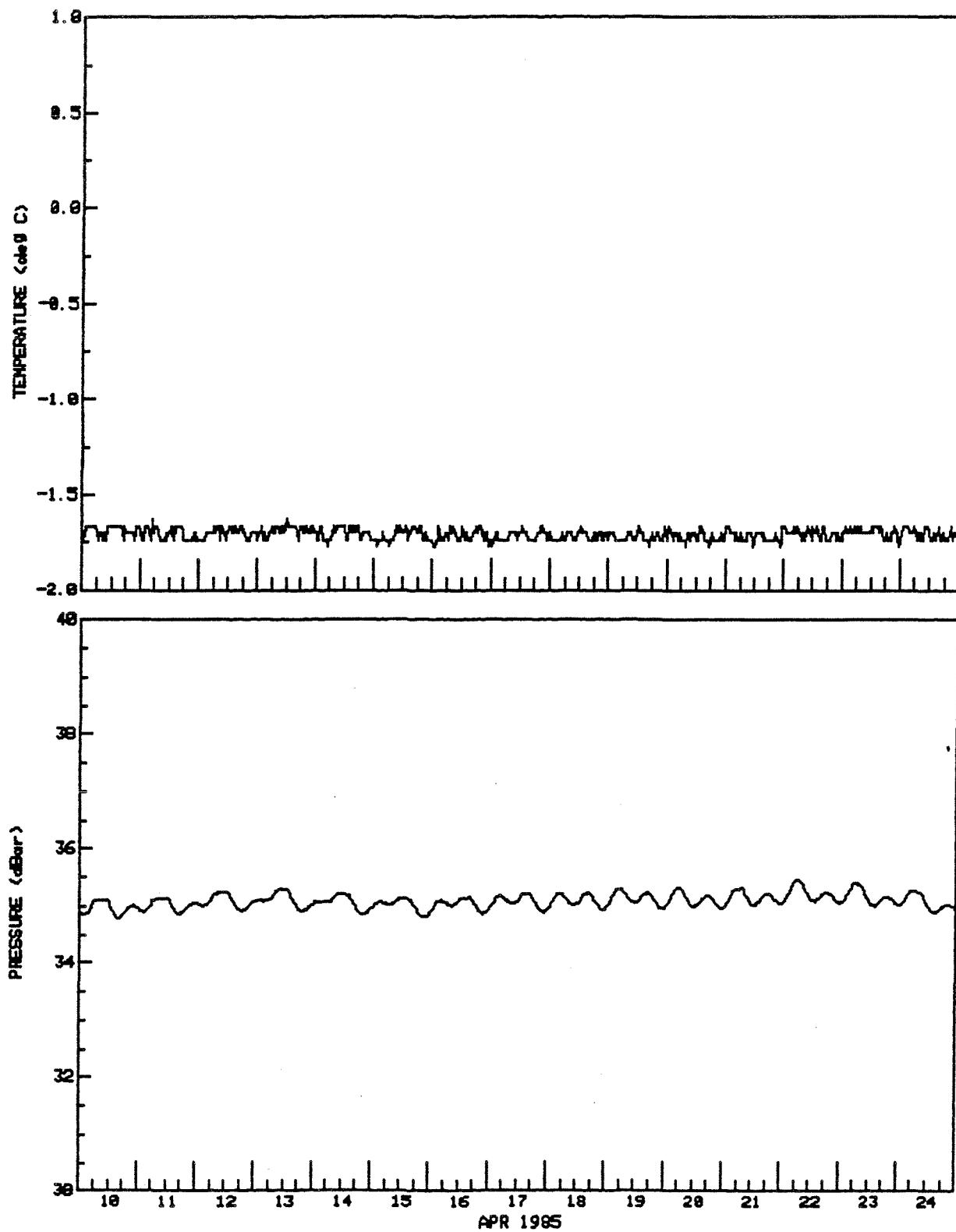
70 30' 55"N 68 12' 40"W

DEPTH(m) 35

AANDERAA WLR5 #342

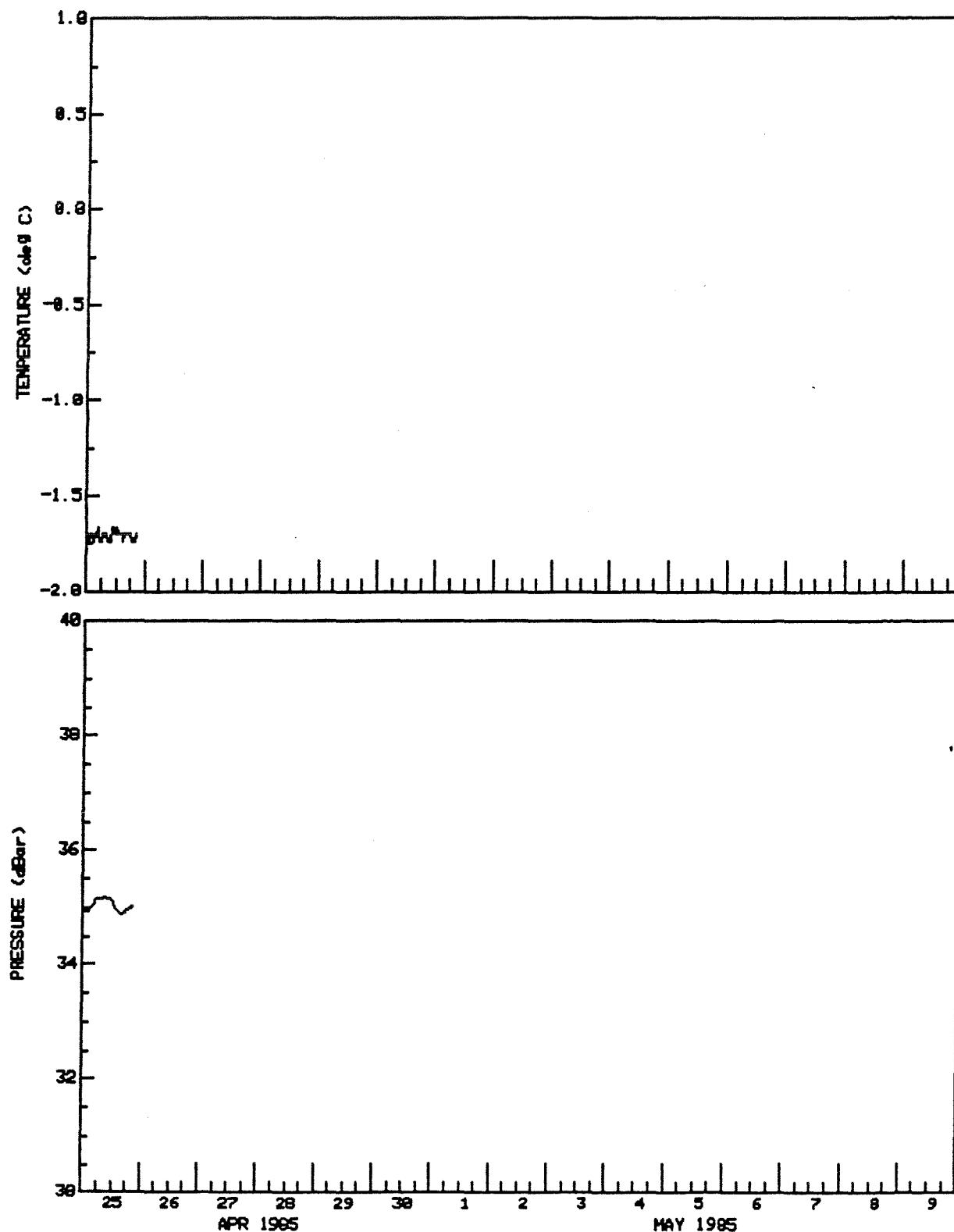
TYPE DESPIKED

DT(min) 30

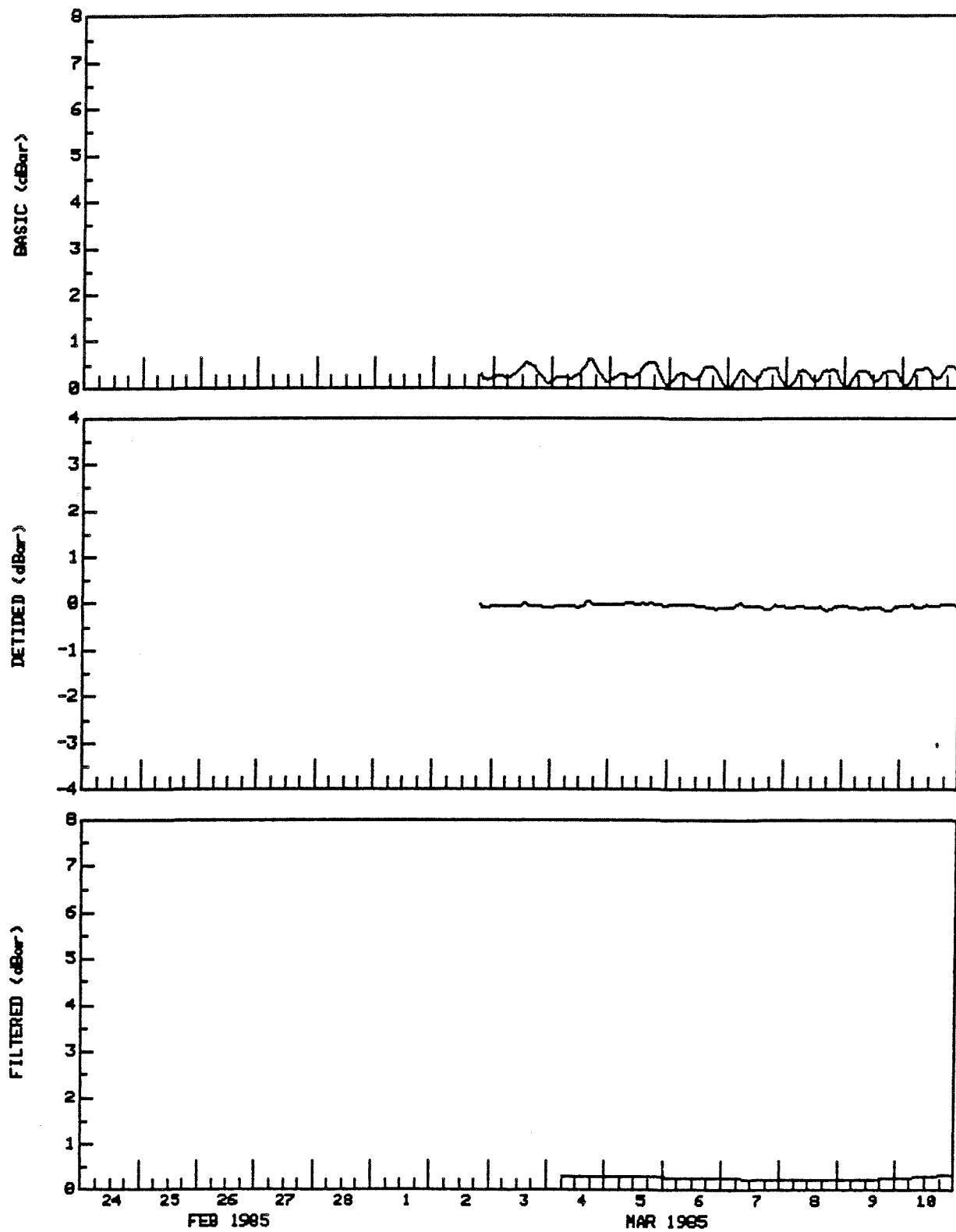


EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #12 CAPE CHRISTIAN DEPTH(m) 35 TYPE DESPIKED
70 30' 55"N 68 12' 40"W AANDERAA WLR5 #342 DT(min) 30

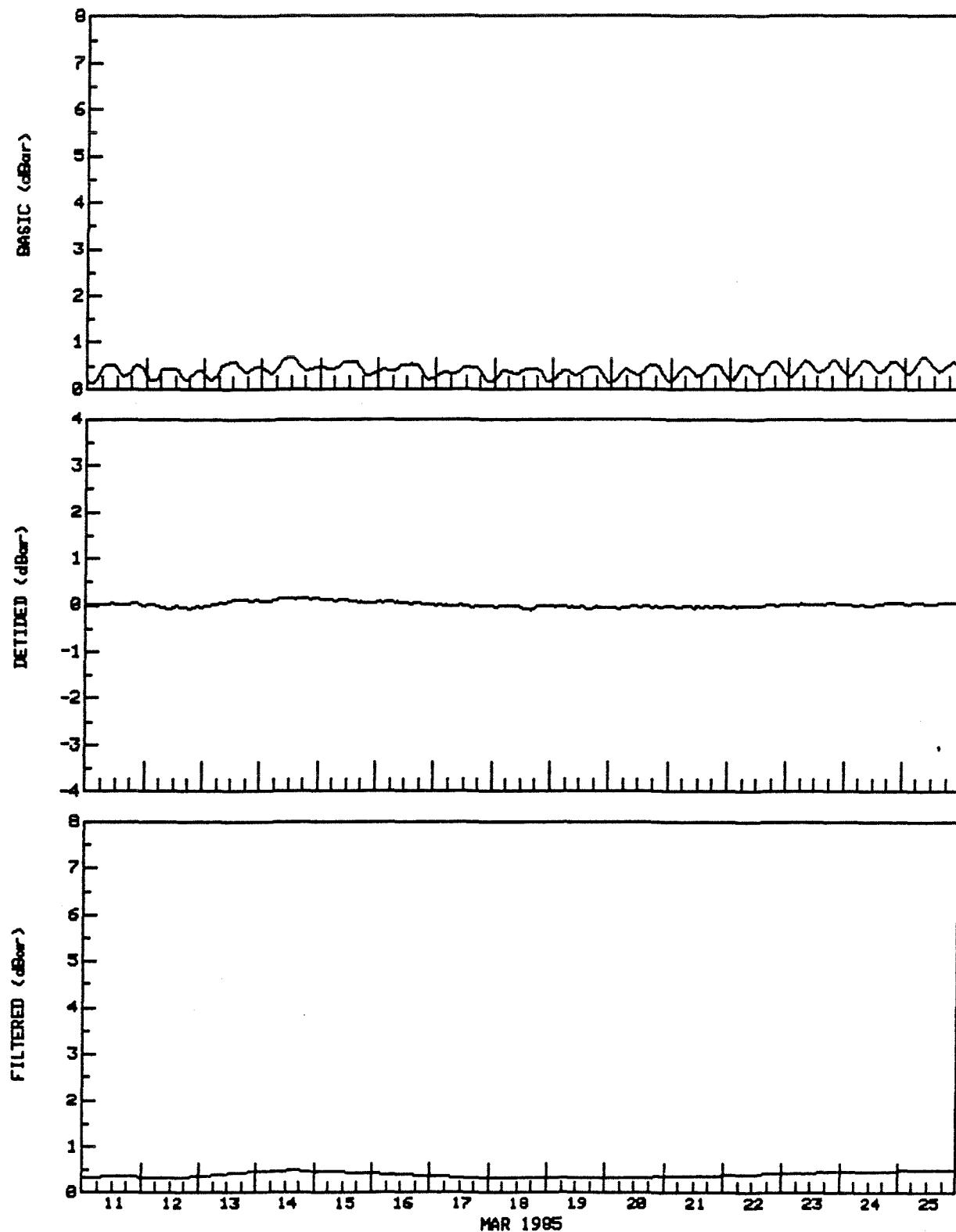


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #12 CAPE CHRISTIAN DEPTH(m) 35 TYPE DESPIKED
70 30' 55"N 68 12' 40"W AANDERAA WLR5 #342 DT(min) 60

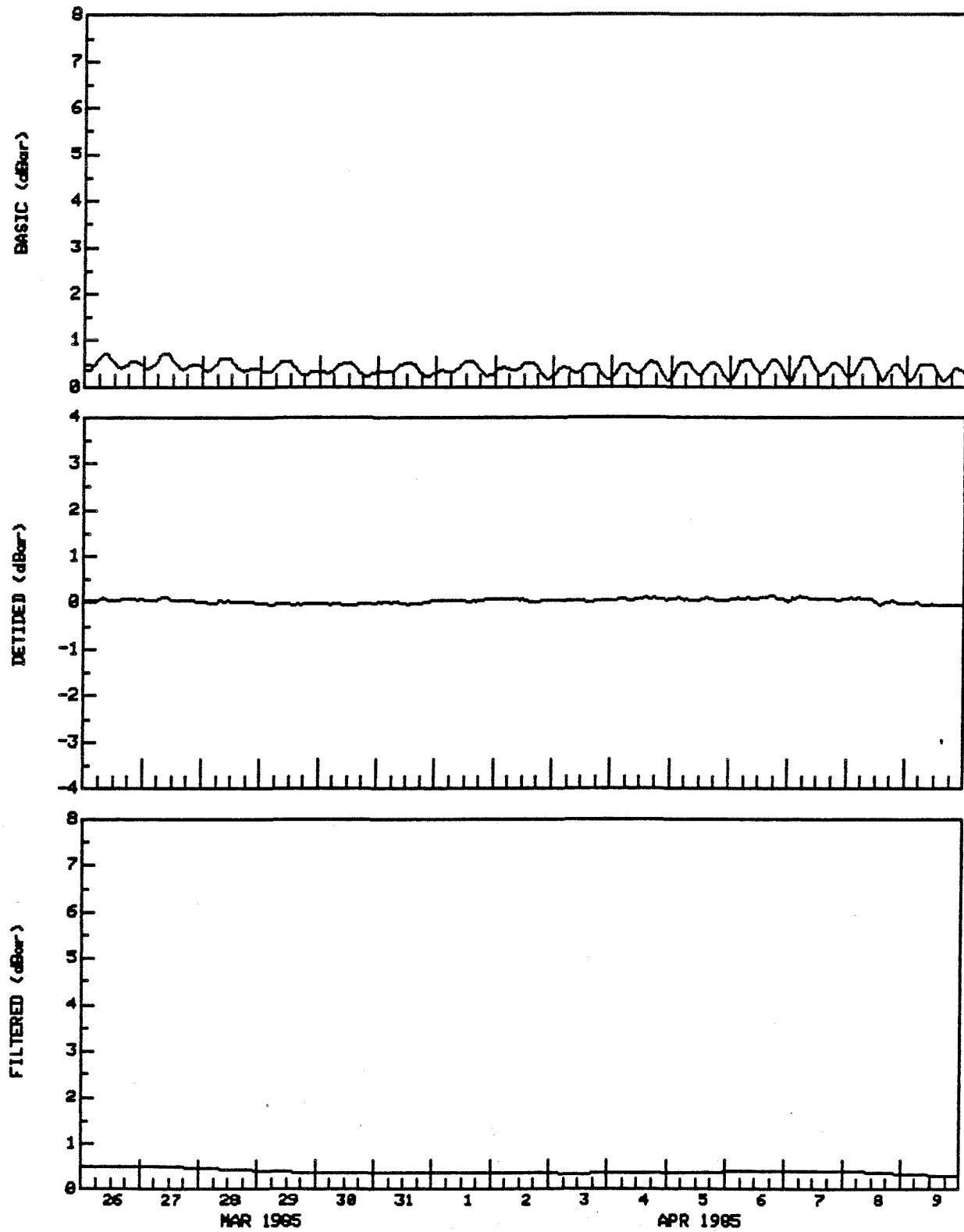


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

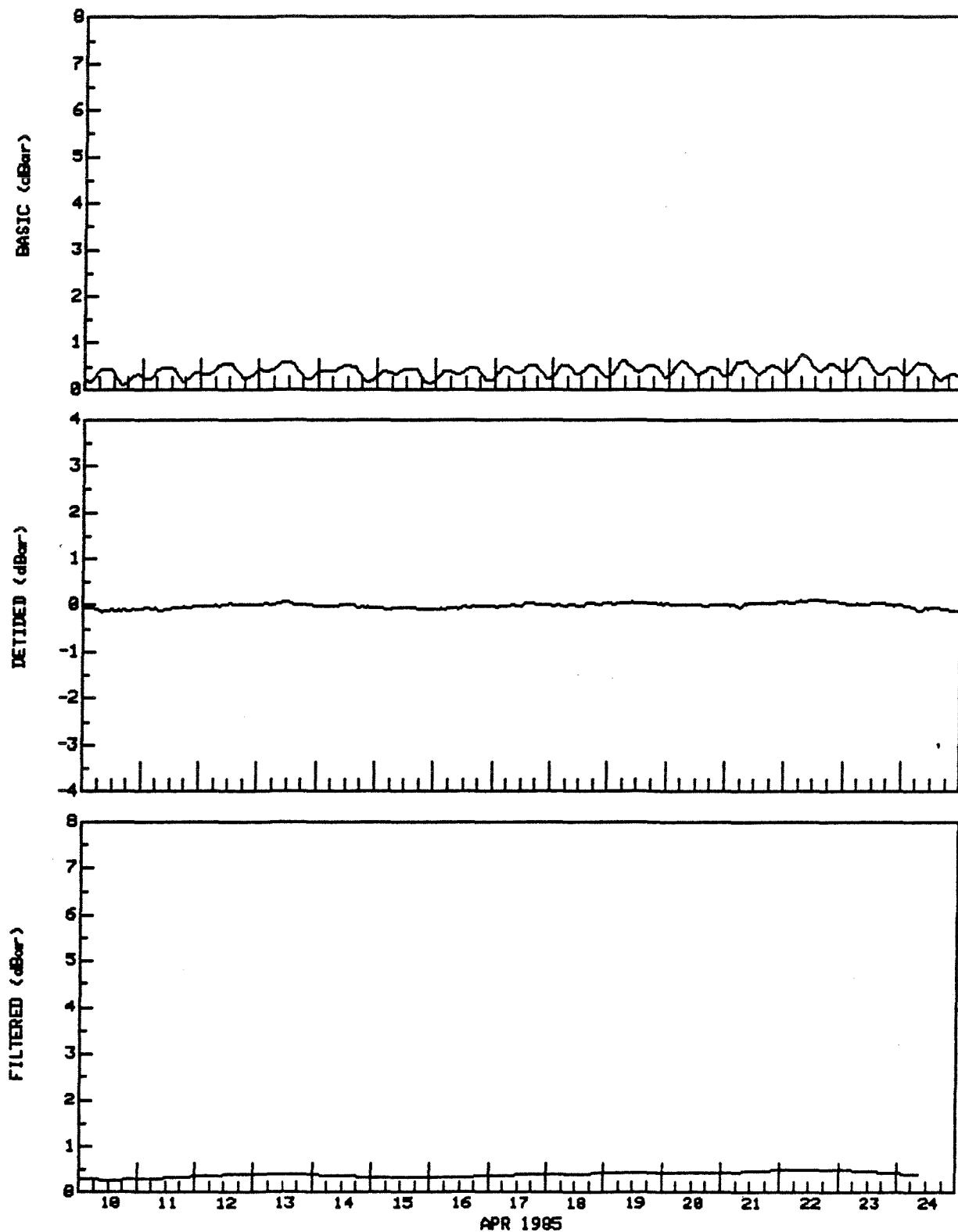
SITE #12 CAPE CHRISTIAN DEPTH(m) 35 TYPE DESPIKED
70 30' 55"N 68 12' 40"W AANDERAA WLR5 #342 DT(min) 60



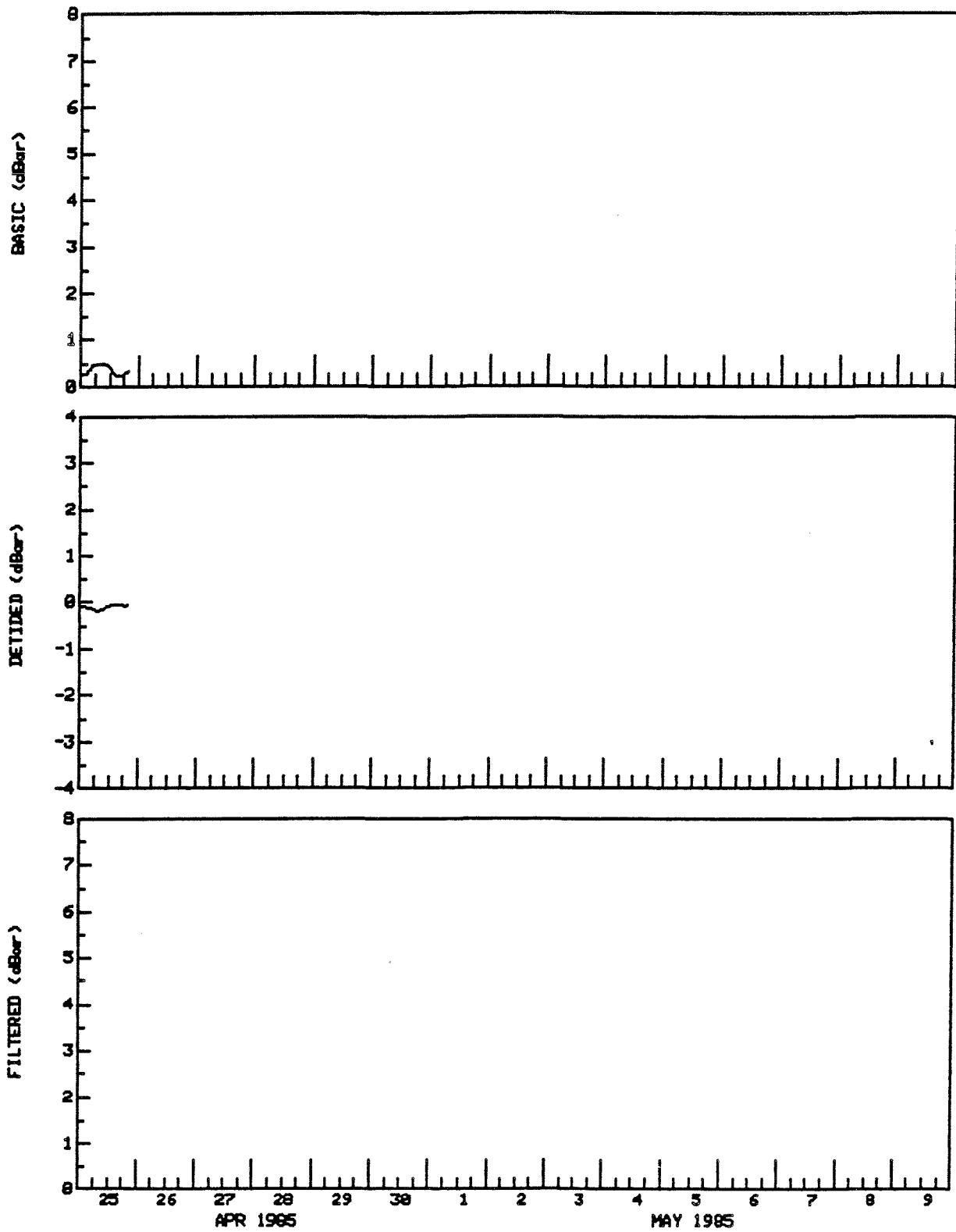
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #12 CAPE CHRISTIAN DEPTH(m) 35 TYPE DESPIKED
70 30' 55"N 68 12' 40"W AANDERAA WLR5 #342 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #12 CAPE CHRISTIAN DEPTH(m) 35 TYPE DESPIKED
70 30' 55"N 68 12' 40"W AANDERAA WLR5 #342 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #12 CAPE CHRISTIAN DEPTH(m) 35 TYPE DESPIKED
70 30' 55"N 68 12' 40"W AANDERAA WLR5 #342 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 13****TIDE GAUGE # 335**

Site # 13: Scott Inlet

Position: 74°29'24"N 68°08'48"W

Tide Gauge #: Aanderaa WLR5 #335

Date/Time of Deployment: 1985/03/04 15:09

Date/Time of Recovery: 1985/04/26 13:47

Sampling Interval: 30 min

Number of Records on Tape: 2653

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.558	0.802	0.316
Detided Pressure	-0.183	0.116	0.000	0.043
Filtered Pressure	0.670	0.871	0.803	0.038

Data Quality: Timing 38 seconds slow

Clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #13 SCOTT INLET LAT: 71 15 24.0 N
 DEPTH: 25 M LONG: 71 7 48.0 W
 START: 1600Z 4/ 3/85 END: 1300Z 26/ 4/85
 NO.OBS.= 1270 NO.PTS.ANAL.= 1270 MIDPT: 2002 31/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	-----	-----	---	---
1	Z0	0.00000000	0.7997	0.00
2	MM	0.00151215	0.0179	208.30
3	MSF	0.00282193	0.0264	176.85
4	ALP1	0.03439657	0.0011	133.69
5	ZQ1	0.03570635	0.0061	322.95
6	Q1	0.03721850	0.0049	232.44
7	O1	0.03873065	0.0911	210.07
8	N01	0.04026860	0.0117	258.16
9	P1	0.04155259	0.0839	253.14 INF FR K1
10	K1	0.04178075	0.2543	253.14
11	J1	0.04329290	0.0122	287.96
12	OO1	0.04483084	0.0097	288.88
13	UPS1	0.04634299	0.0028	249.50
14	EPS2	0.07617730	0.0063	337.80
15	MU2	0.07768947	0.0201	54.45
16	N2	0.07899922	0.0826	110.81
17	M2	0.08051139	0.3342	133.35
18	L2	0.08202356	0.0078	94.52
19	S2	0.08333331	0.1076	177.78
20	K2	0.08356148	0.0291	177.78 INF FR S2
21	ETA2	0.08507365	0.0037	274.78
22	M03	0.11924207	0.0000	57.89
23	M3	0.12076712	0.0028	259.11
24	MK3	0.12229216	0.0010	153.42
25	SK3	0.12511408	0.0005	45.54
26	MN4	0.15951067	0.0007	154.75
27	M4	0.16102278	0.0010	218.92
28	SN4	0.16233259	0.0008	230.18
29	MS4	0.16384470	0.0017	276.01
30	S4	0.16666669	0.0002	327.75
31	2MK5	0.20280355	0.0004	282.20
32	2SK5	0.20844740	0.0001	136.45
33	2MN6	0.24002206	0.0003	125.66
34	M6	0.24153417	0.0007	188.12
35	2MS6	0.24435616	0.0008	259.97
36	2SM6	0.24717808	0.0001	238.86
37	3MK7	0.28331494	0.0001	36.86
38	M8	0.32204562	0.0006	58.14

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #13 SCOTT INLET

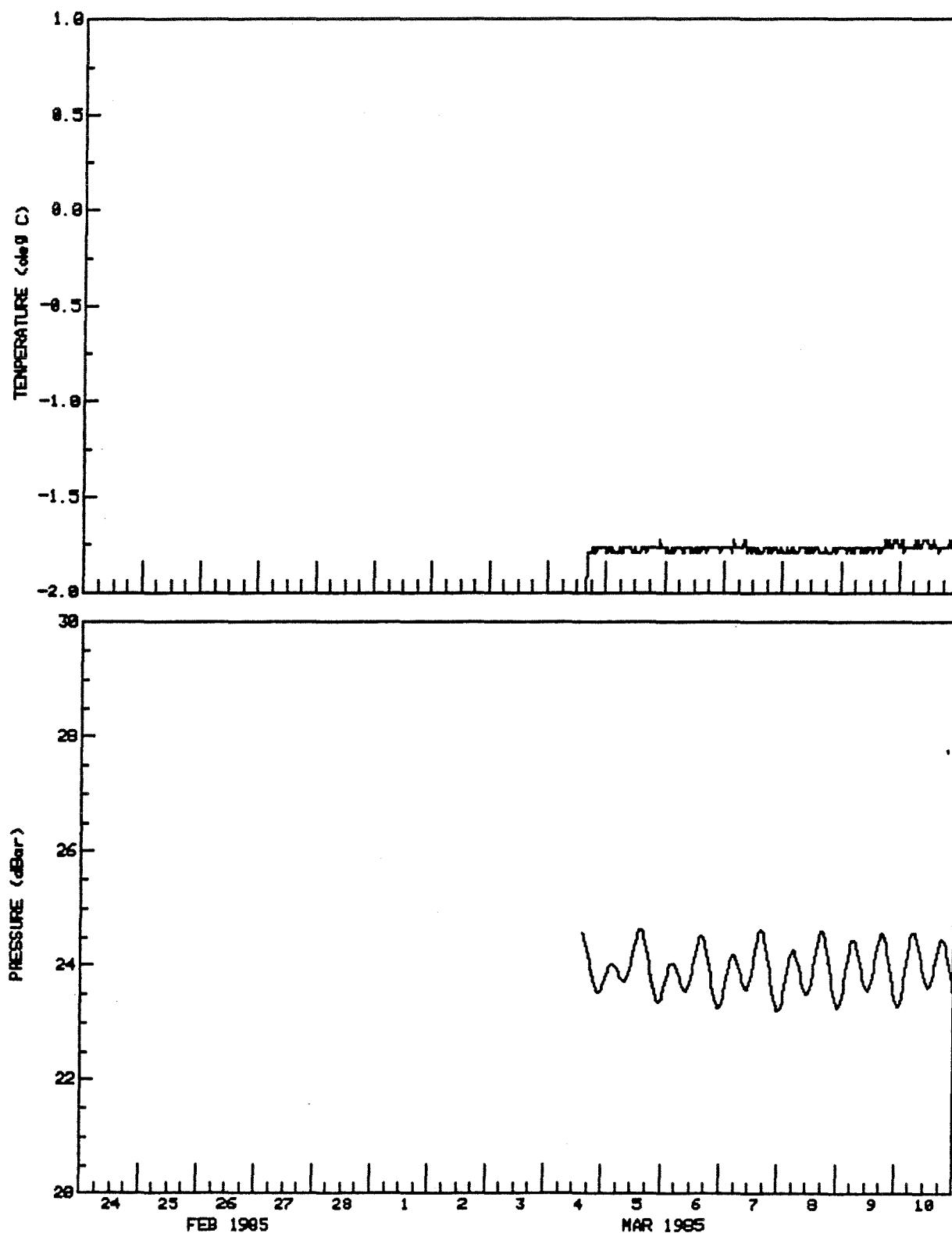
74° 29' 24"N 86° 08' 48"W

DEPTH(m) 24

AANDERAA WLR5 #335

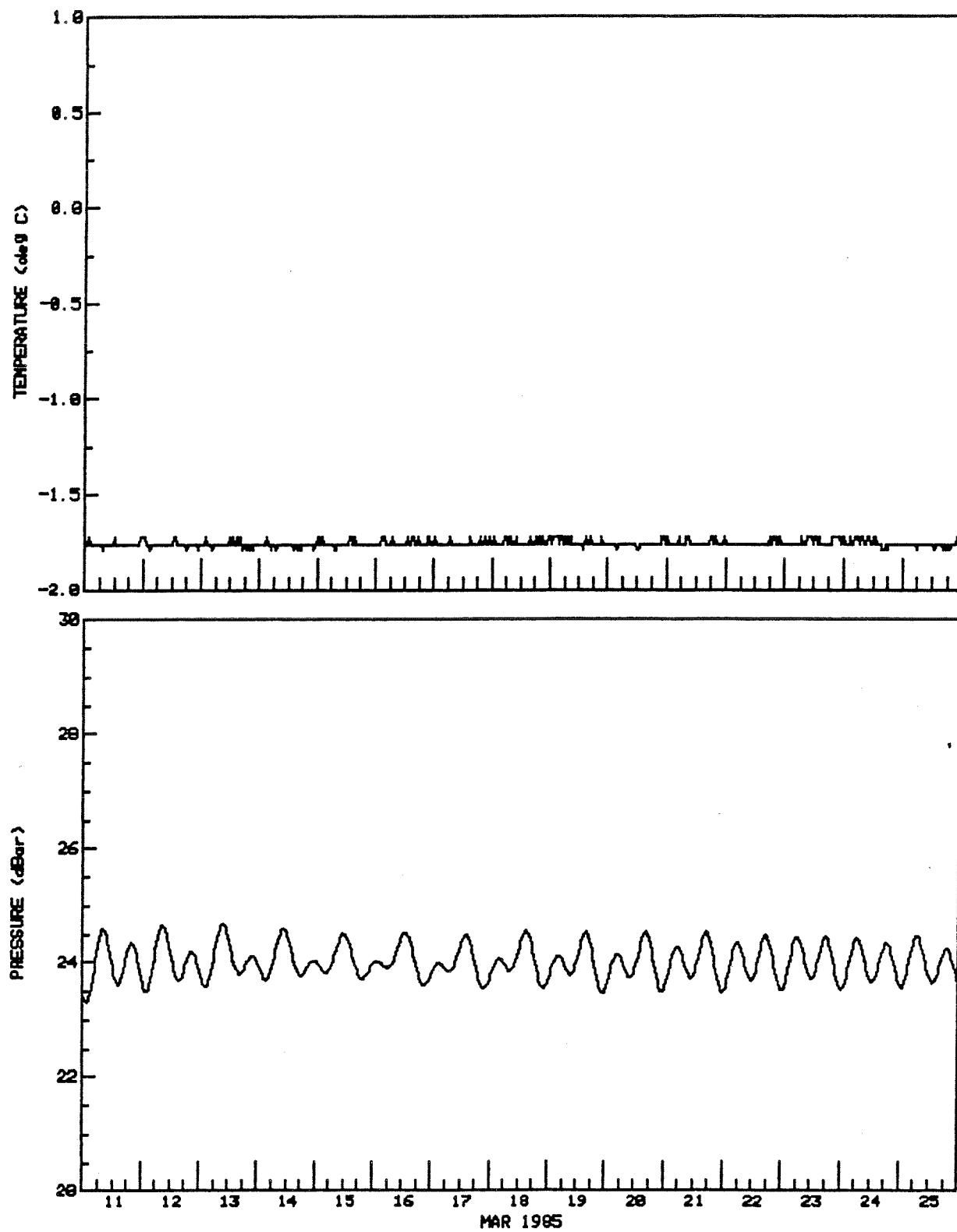
TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #13 SCOTT INLET DEPTH(m) 24 TYPE DESPIKED
74 29' 24"N 86 08' 48"W AANDERAA WLR5 #335 DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #13 SCOTT INLET

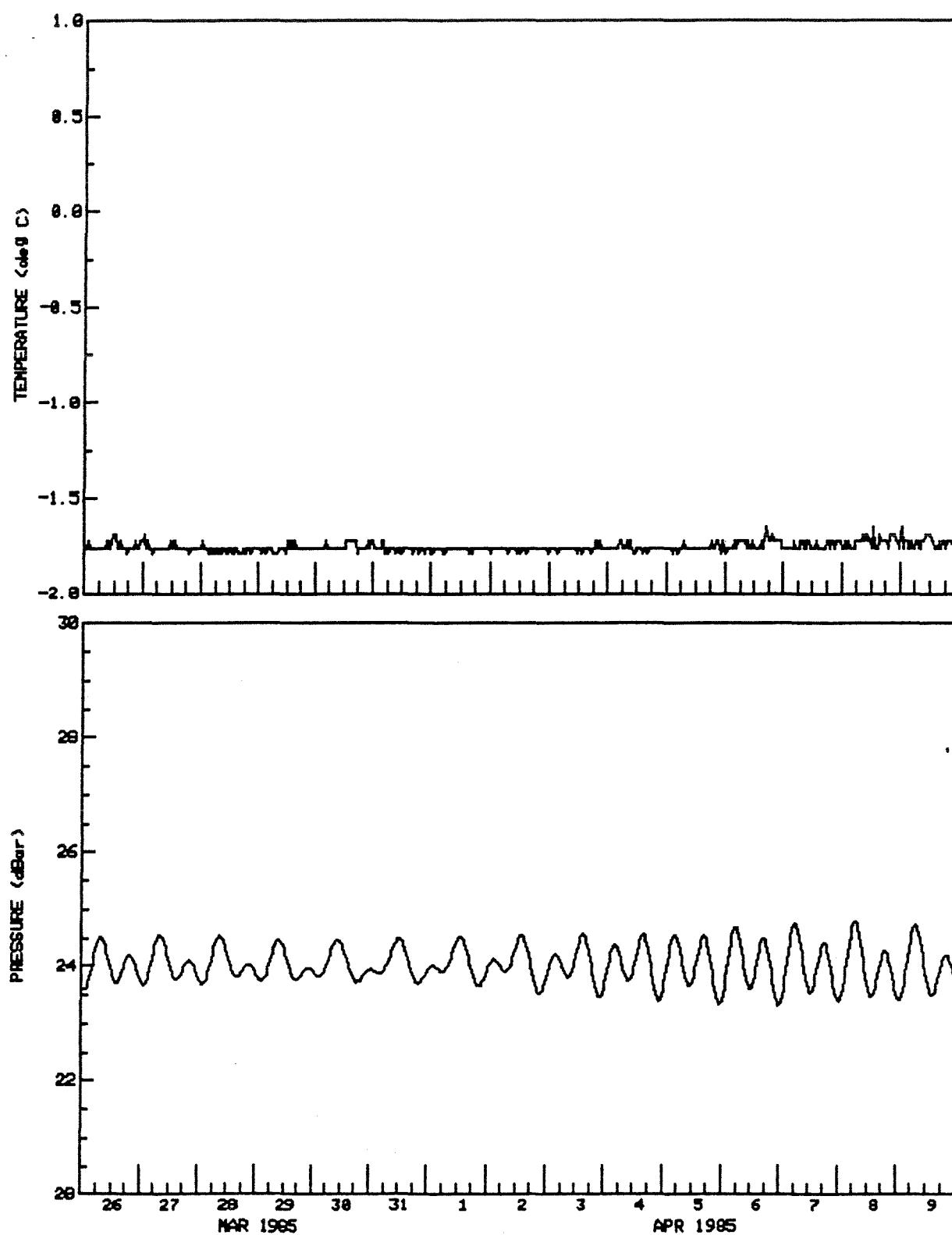
DEPTH(m) 24

TYPE DESPIKED

74 29' 24"N 86 08' 48"W

AANDERAA WLR5 #335

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #13 SCOTT INLET

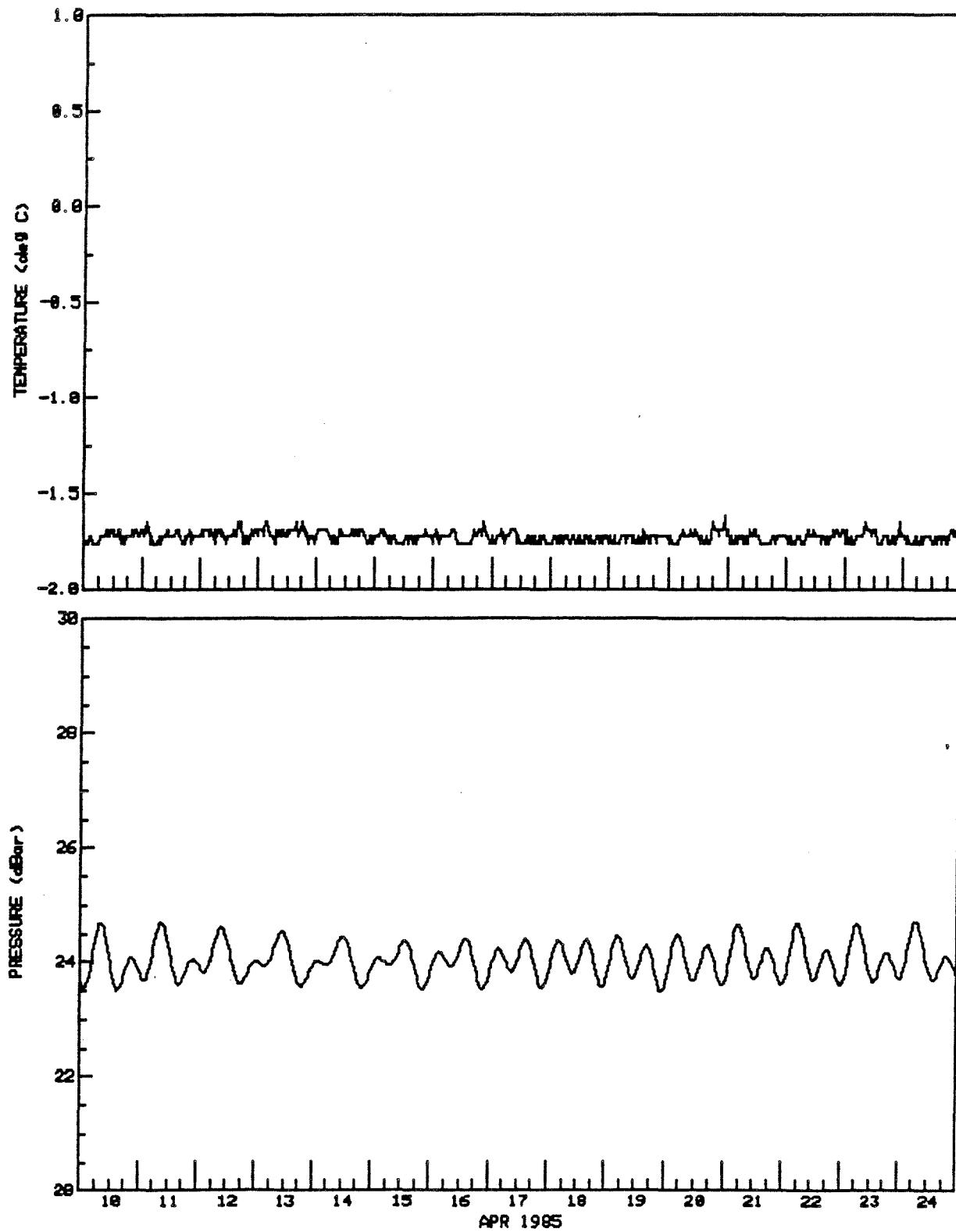
74 29' 24"N 86 08' 48"W

DEPTH(m) 24

AANDERAA WLR5 #335

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #13 SCOTT INLET

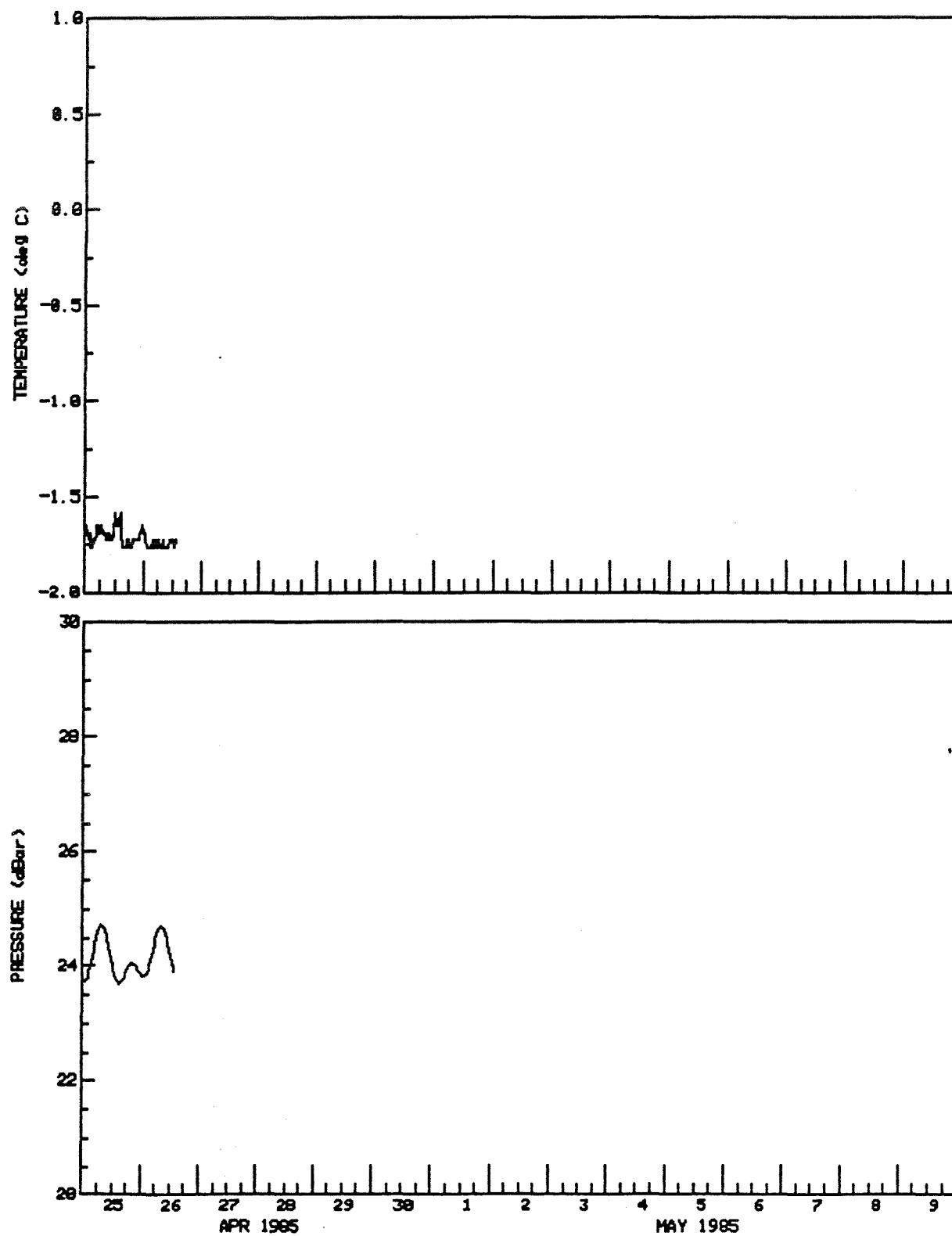
DEPTH(m) 24

TYPE DESPIKED

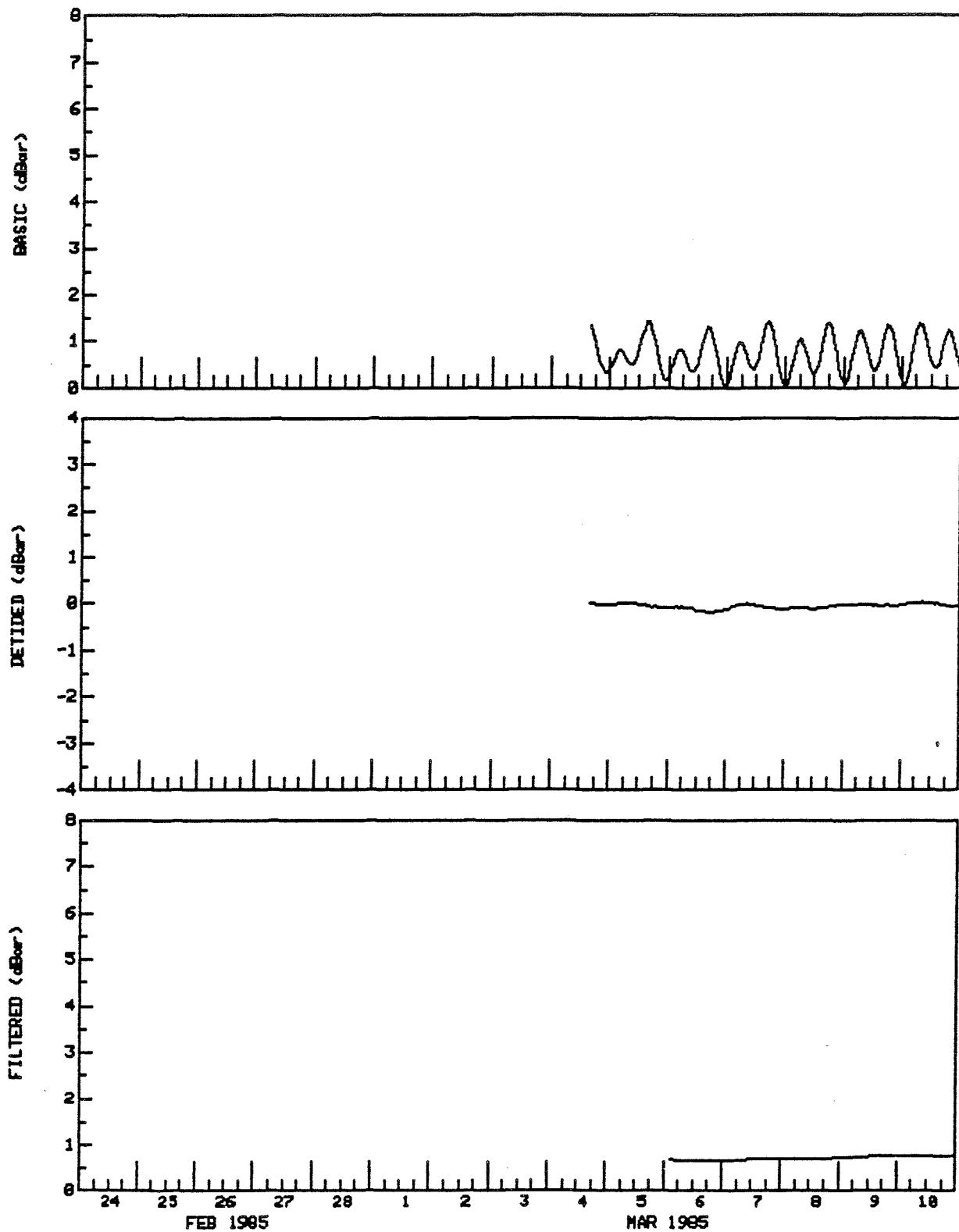
74 29' 24"N 86 08' 48"W

AANDERAA WLR5 #335

DT(min) 30



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #13 SCOTT INLET DEPTH(m) 24 TYPE DESPIKED
74 29' 24"N 86 08' 48"W AANDERAA WLR5 #335 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #13 SCOTT INLET

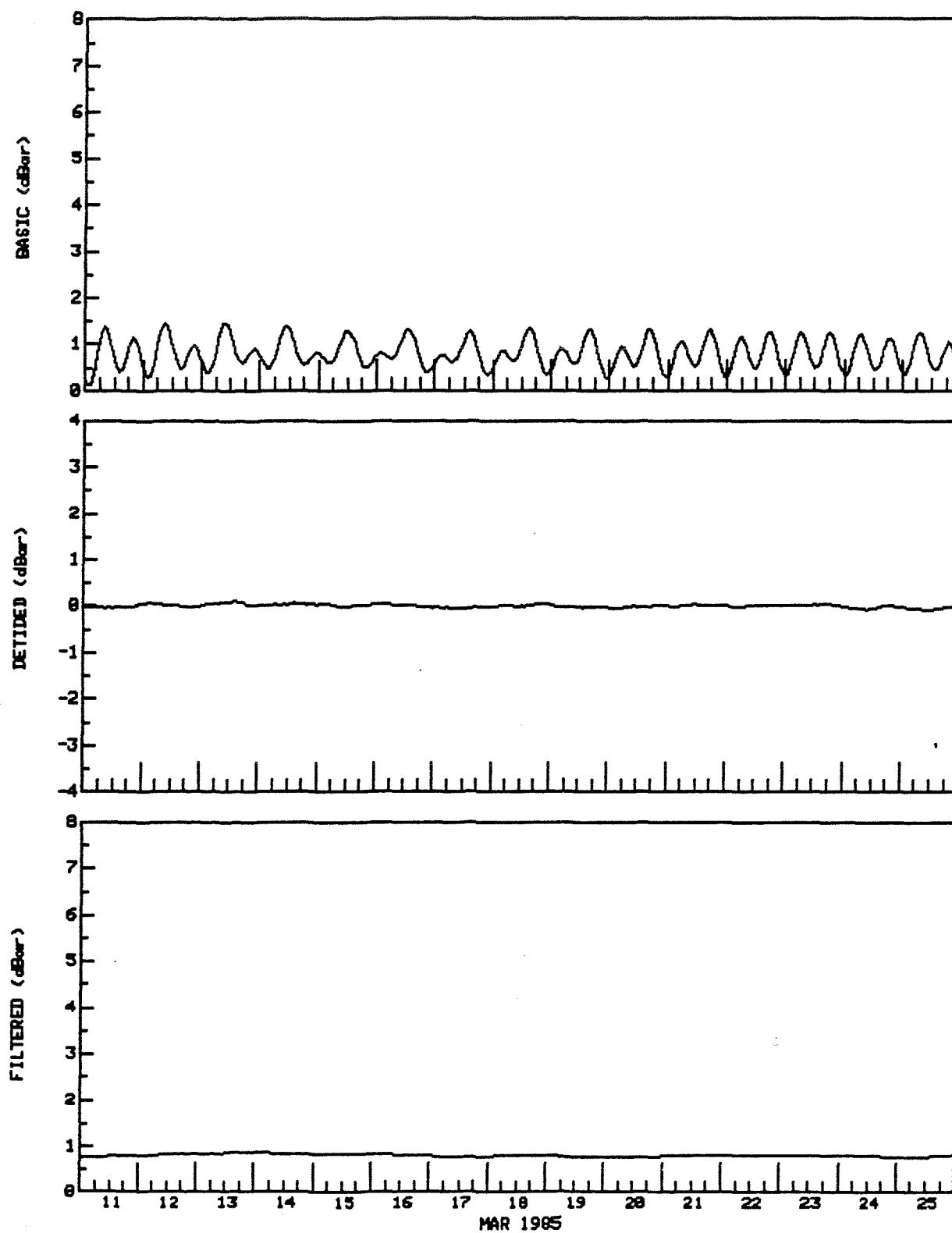
DEPTH(m) 24

TYPE DESPIKED

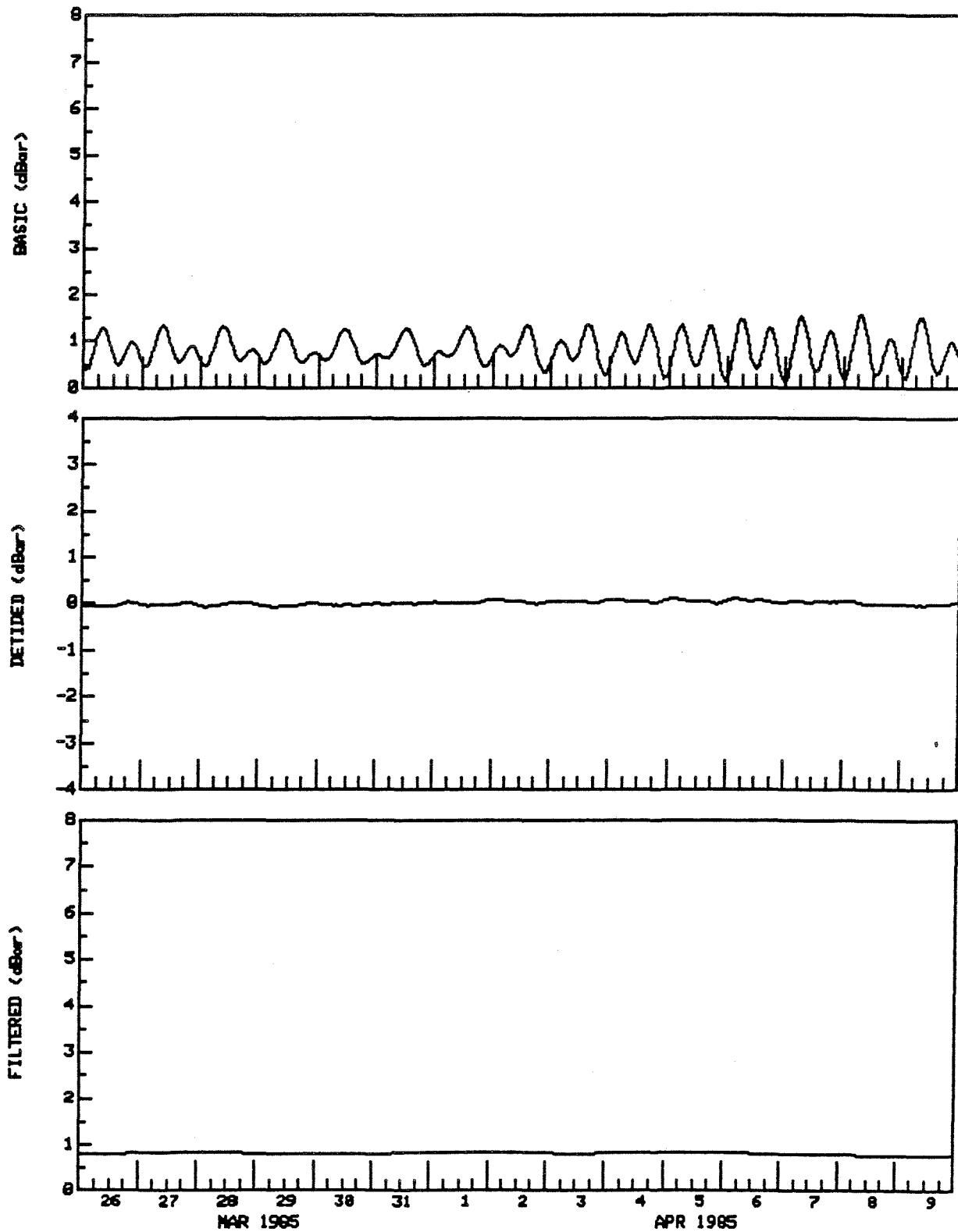
74 29' 24"N 86 08' 48"W

AANDERAA WLR5 #335

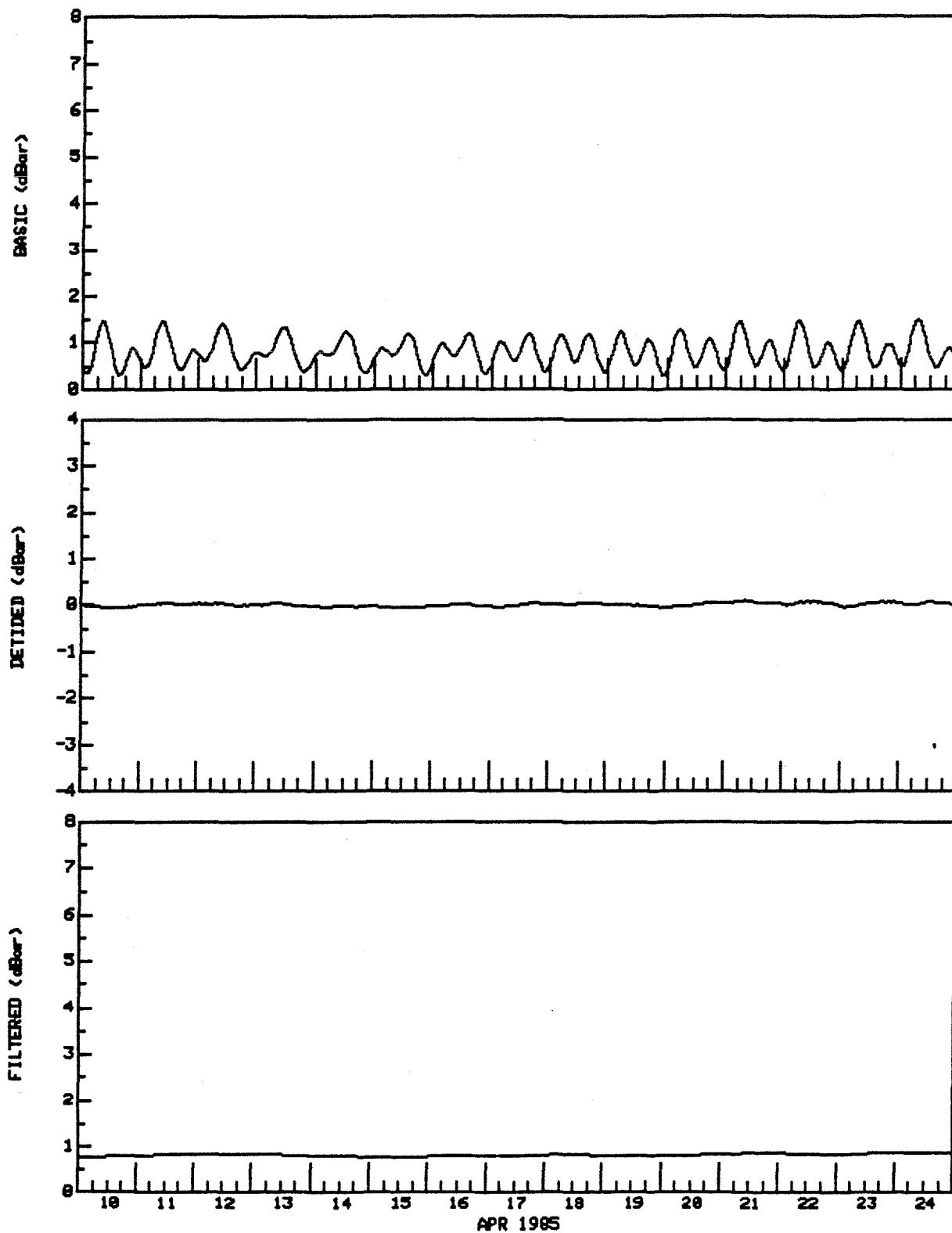
DT(min) 60



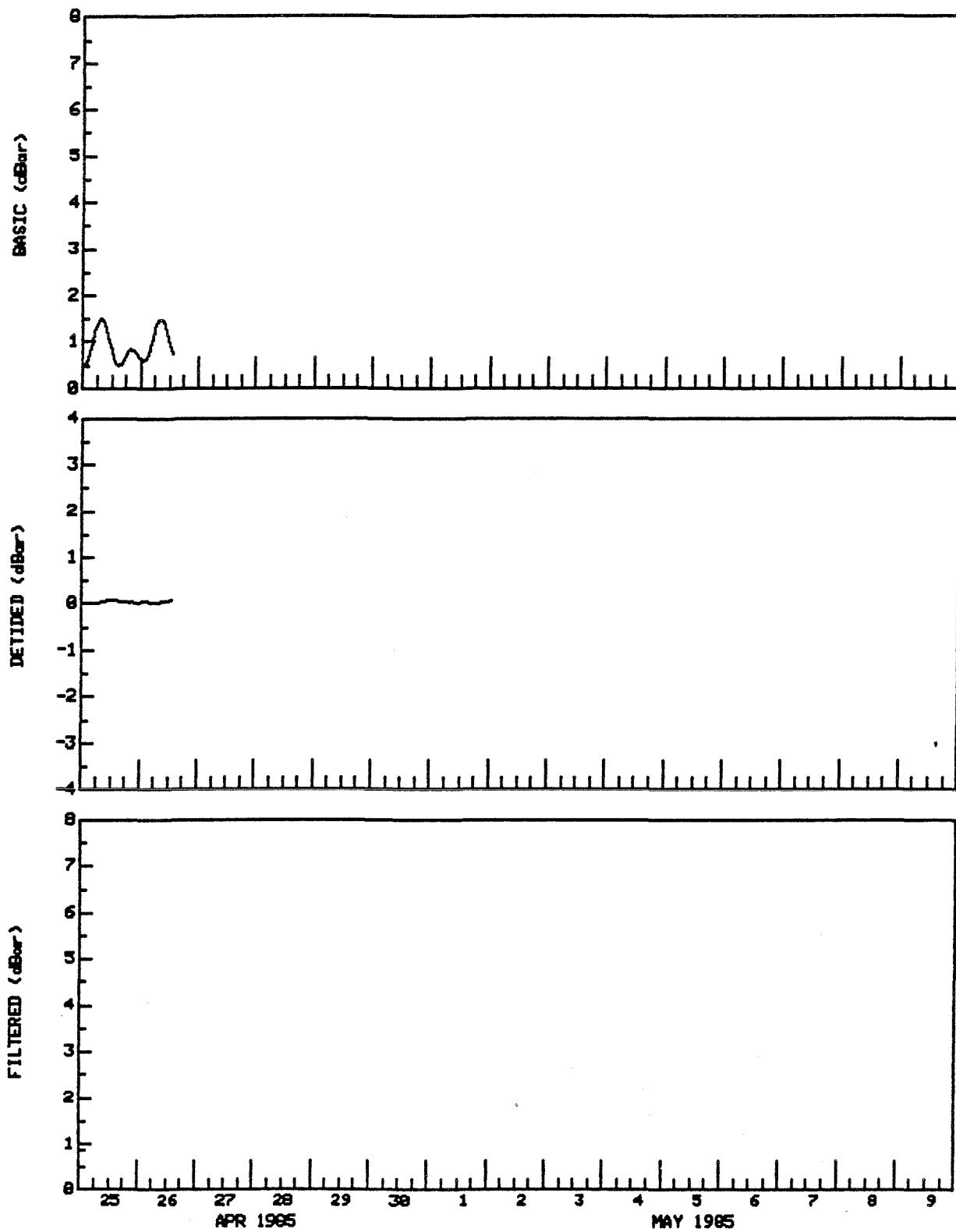
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #13 SCOTT INLET DEPTH(m) 24 TYPE DESPIKED
74 29' 24"N 86 08' 48"W AANDERAA WLR5 #335 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #13 SCOTT INLET DEPTH(m) 24 TYPE DESPIKED
74 29' 24"N 86 08' 48"W AANDERAA WLR5 #335 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #13 SCOTT INLET DEPTH(m) 24 TYPE DESPIKED
74 29' 24"N 86 08' 48"W AANDERAA WLR5 #335 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 14****TIDE GAUGE # 990**

Site # 14: Cape Hunter

Position: 71°40'12"N 72°19'00"W

Tide Gauge #: Aanderaa WLR5 #990

Date/Time of Deployment: 1985/03/04 16:01

Date/Time of Recovery: 1985/04/26 15:00

Sampling Interval: 30 min

Number of Records on Tape: 2849

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.580	0.859	0.352
Detided Pressure	-0.155	0.146	0.001	0.051
Filtered Pressure	0.734	0.923	0.856	0.04

Data Quality: Timing 26 seconds slow

Clean short record

Site tampered with: meter raised near surface and rope removed but good partial record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #14 CAPE HUNTER LAT: 71 40 12.0 N
 DEPTH: 20 M LONG: 72 19 0.0 W
 START: 1700Z 4/ 3/85 END: 2400Z 30/ 3/85
 NO.OBS.= 632 NO.PTS.ANAL.= 632 MIDPT: 2000Z 17/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	---
1	Z0	0.00000000	0.8487	0.00
2	MSF	0.00282193	0.0449	185.51
3	O1	0.03873065	0.0885	209.07
4	P1	0.04155259	0.0821	252.97 INF FR K1
5	K1	0.04178075	0.2489	252.97
6	N2	0.07899922	0.0759	113.44 INF FR M2
7	M2	0.08051139	0.3795	136.44
8	S2	0.08333331	0.1305	177.69
9	K2	0.08356148	0.0352	177.69 INF FR S2
10	M3	0.12076712	0.0027	268.89
11	SK3	0.12511408	0.0013	5.63
12	M4	0.16102278	0.0014	162.93
13	MS4	0.16384470	0.0028	276.96
14	S4	0.16666669	0.0003	281.88
15	2MK5	0.20280355	0.0003	290.60
16	2SK5	0.20844740	0.0007	133.79
17	M6	0.24153417	0.0003	63.02
18	2MS6	0.24435616	0.0007	229.97
19	2SM6	0.24717808	0.0006	340.02
20	3MK7	0.28331494	0.0006	318.80
21	M8	0.32204562	0.0006	340.72

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #14 CAPE HUNTER

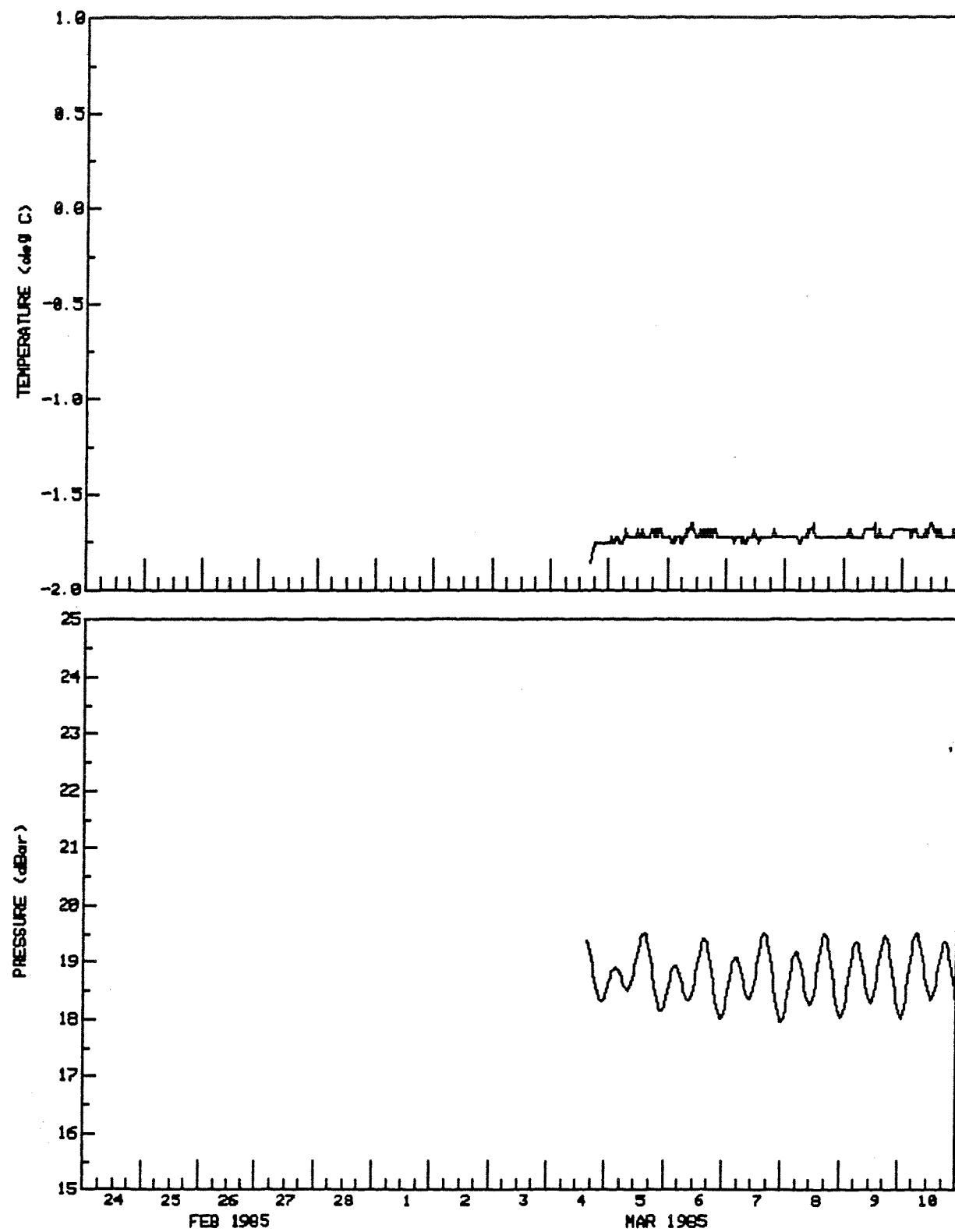
71 40' 12"N 72 19' 00"W

DEPTH(m) 19

AANDERAA WLR5 #990

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #14 CAPE HUNTER

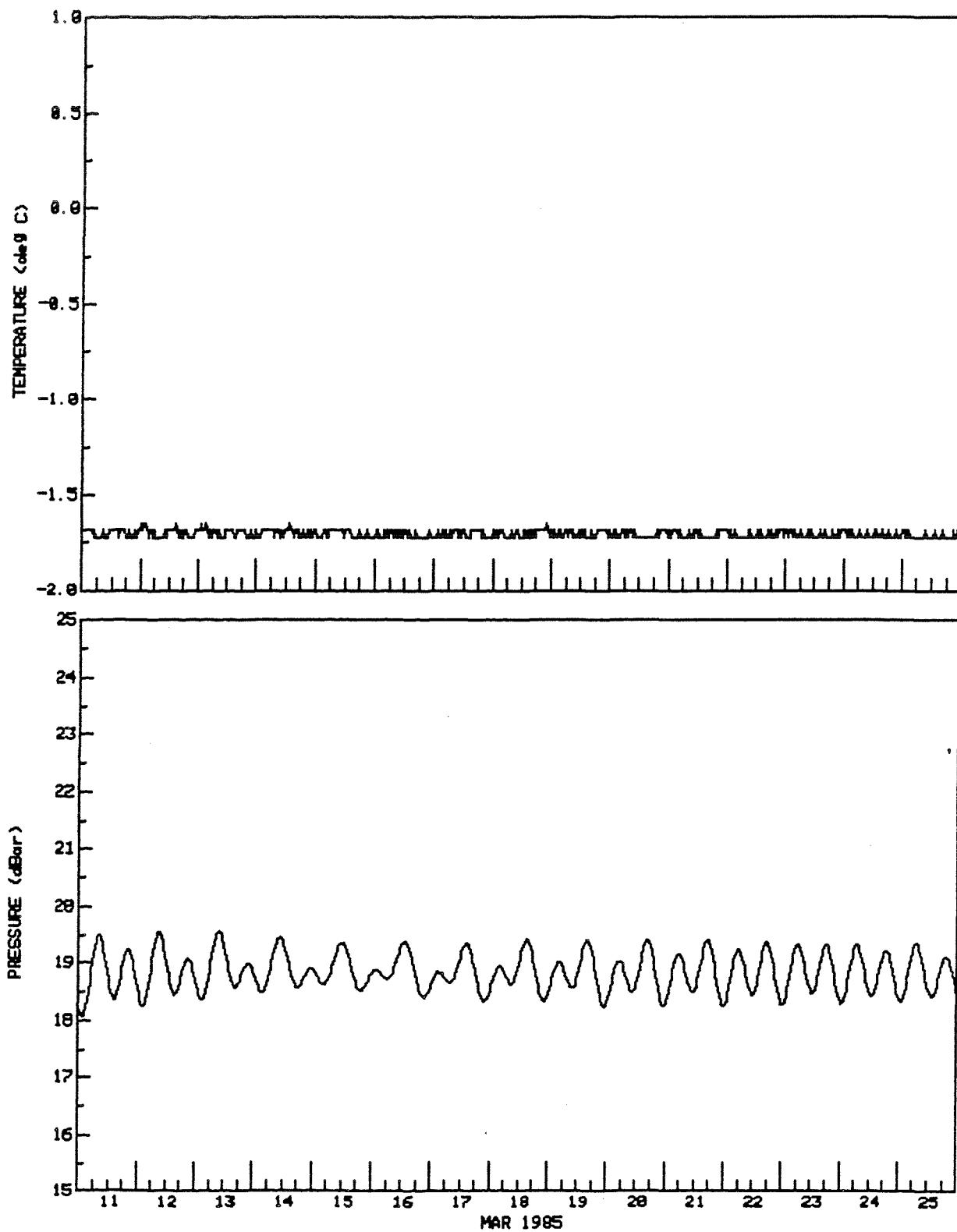
71 40' 12"N 72 19' 00"W

DEPTH(m) 19

AANDERAA WLR5 #990

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #14 CAPE HUNTER

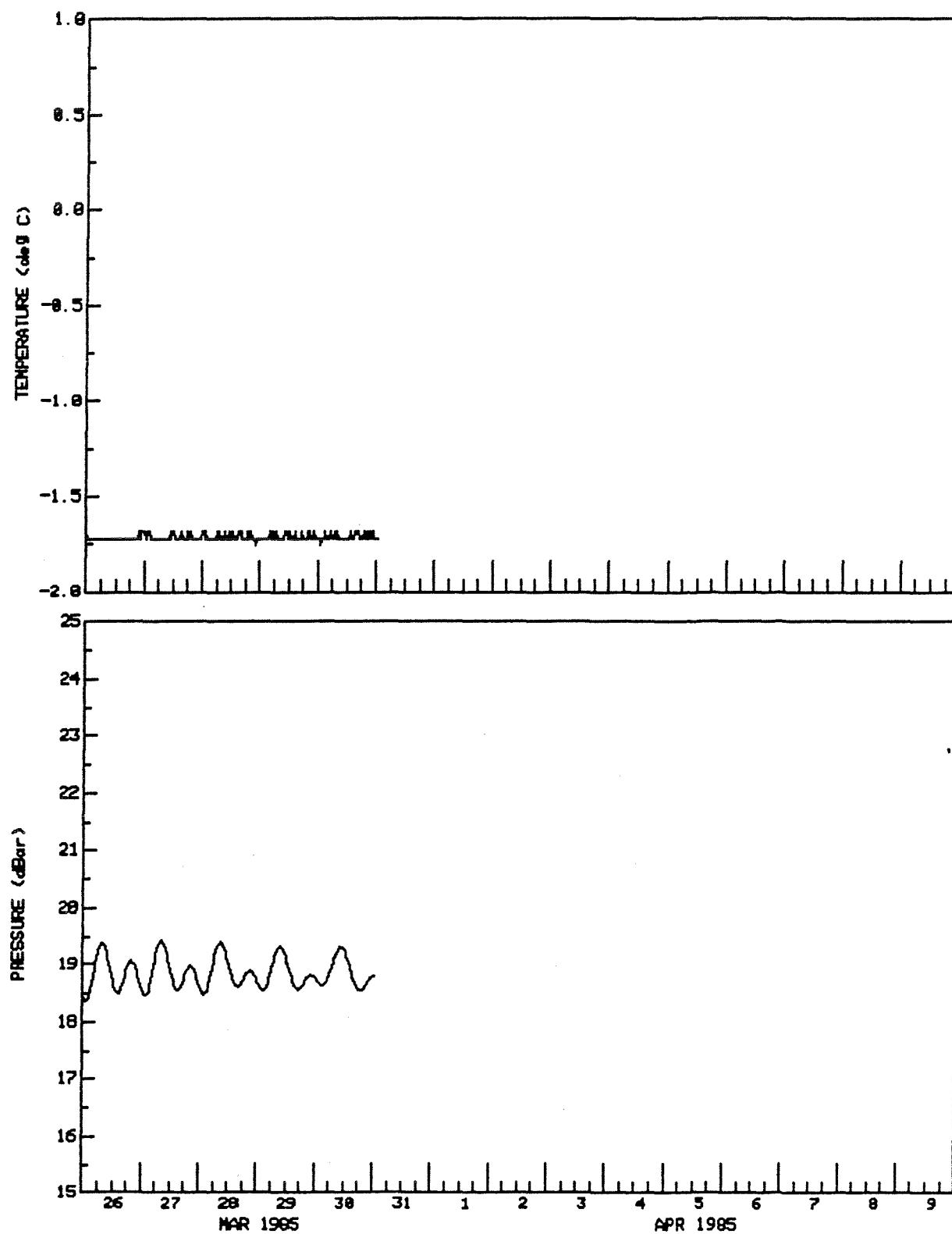
71 40' 12"N 72 19' 00"W

DEPTH(m) 19

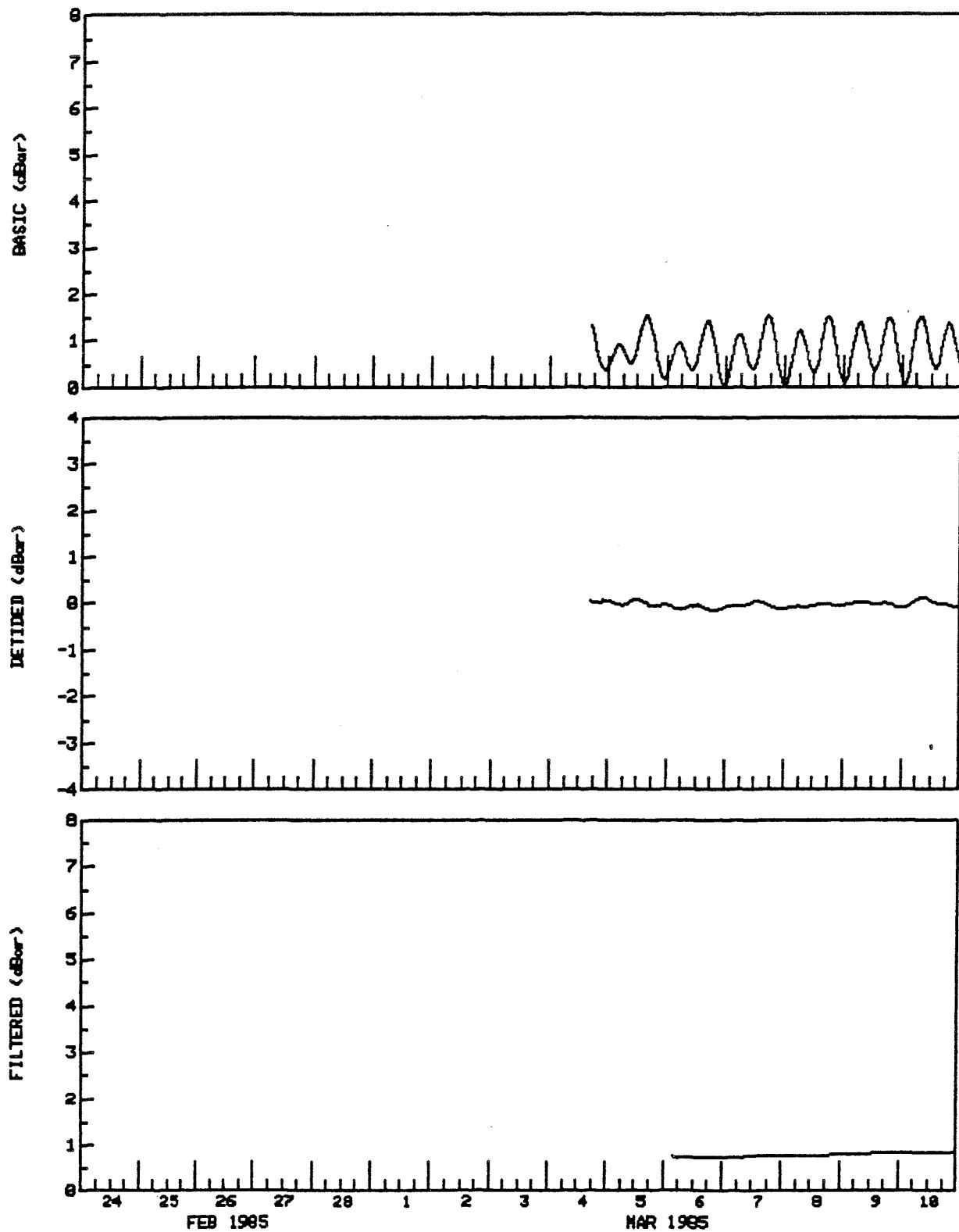
AANDERAA WLR5 #990

TYPE DESPIKED

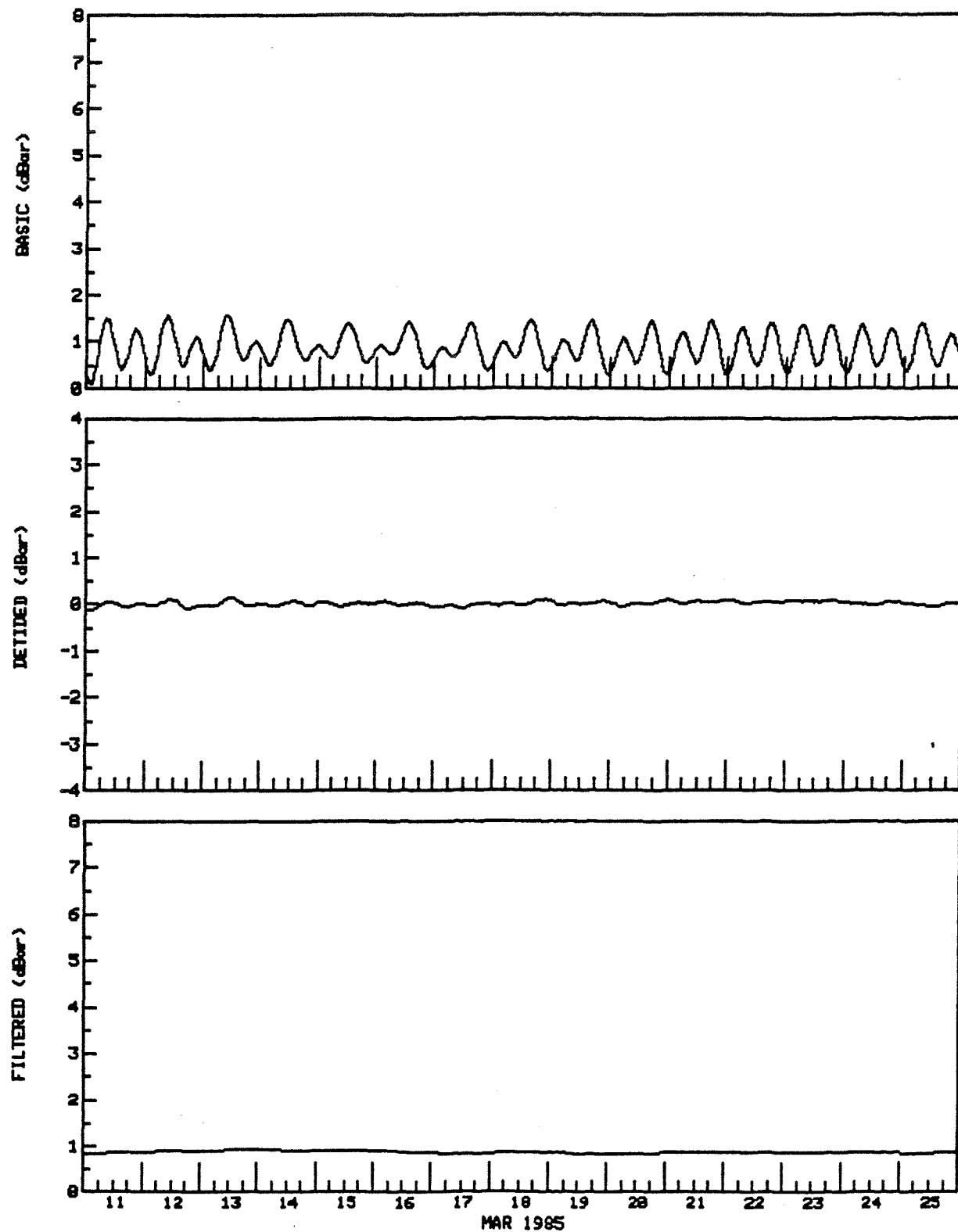
DT(min) 30



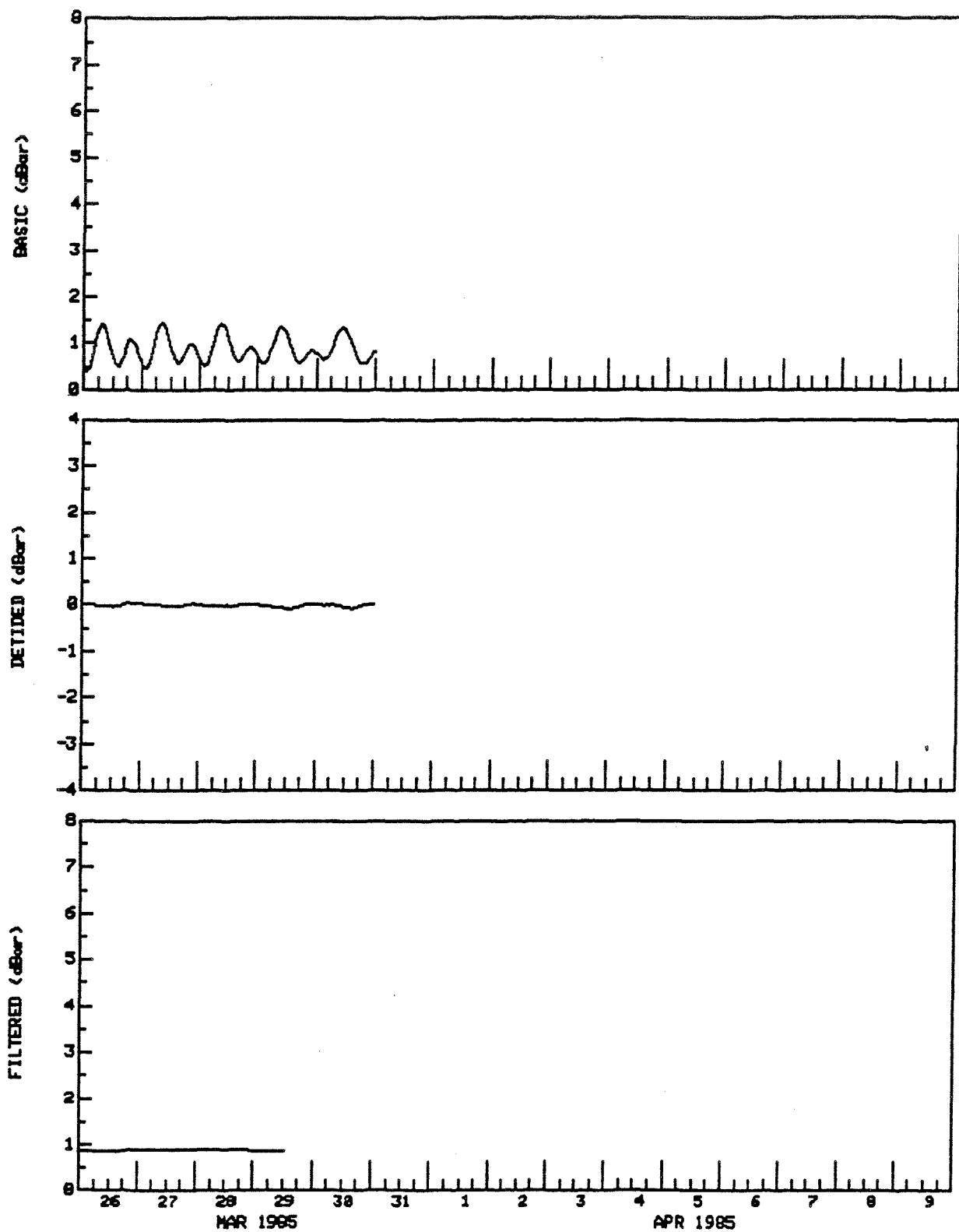
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #14 CAPE HUNTER DEPTH(m) 19 TYPE DESPIKED
71 40' 12"N 72 19' 00"W AANDERAA WLR5 #990 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #14 CAPE HUNTER DEPTH(m) 19 TYPE DESPIKED
71 40' 12"N 72 19' 00"W AANDERAA WLR5 #990 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #14 CAPE HUNTER DEPTH(m) 19 TYPE DESPIKED
71 40' 12"N 72 19' 00"W AANDERAA WLR5 #990 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 15****TIDE GAUGE # 334**

Site # 15: Nova Zembla Island

Position: 72°12'54"N 74°38'42"W

Tide Gauge #: Aanderaa WLR5 #334

Date/Time of Deployment: 1985/03/04 17:00

Date/Time of Recovery: 1985/04/26 15:53

Sampling Interval: 30 min

Number of Records on Tape: 2646

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.962	0.992	0.403
Detided Pressure	-0.191	0.117	-0.001	0.044
Filtered Pressure	0.857	1.067	0.994	0.038

Data Quality: Timing 33 seconds slow

Fairly clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

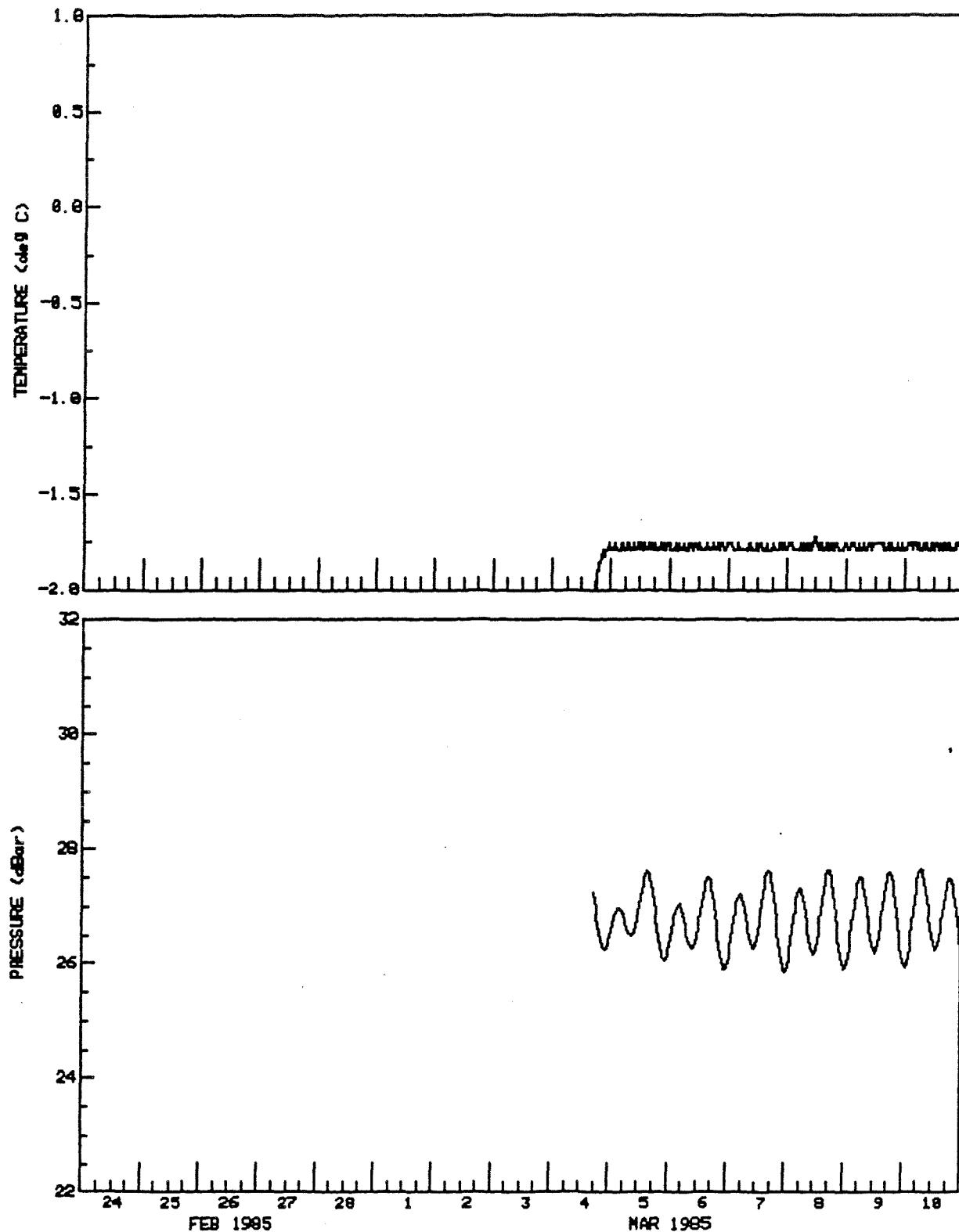
ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #15 NOVA ZEMBLA ISLAND LAT: 72 12 54.0 N
 DEPTH: 24 M LONG: 74 38 42.0 W
 START: 1800Z 4/ 3/85 END: 1500Z 26/ 4/85
 NO.OBS.= 1270 NO.PTS.ANAL.= 1270 MIDPT: 400Z 31/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	0.9881	0.00
2	MM	0.00151215	0.0159	202.95
3	MSF	0.00282193	0.0291	170.56
4	ALP1	0.03439657	0.0015	130.95
5	2Q1	0.03570635	0.0057	322.45
6	Q1	0.03721850	0.0051	234.67
7	01	0.03873065	0.0936	210.50
8	N01	0.04026860	0.0120	256.11
9	P1	0.04155259	0.0870	252.00 INF FR K1
10	K1	0.04178075	0.2636	252.00
11	J1	0.04329290	0.0124	287.87
12	001	0.04483084	0.0103	289.54
13	UPS1	0.04634299	0.0028	244.92
14	EPS2	0.07617730	0.0079	342.76
15	MU2	0.07768947	0.0264	59.08
16	N2	0.07899922	0.1093	114.27
17	M2	0.08051139	0.4486	138.30
18	L2	0.08202356	0.0095	94.93
19	S2	0.08333331	0.1519	183.35
20	K2	0.08356148	0.0410	183.35 INF FR S2
21	ETA2	0.08507365	0.0055	272.64
22	M03	0.11924207	0.0015	237.68
23	M3	0.12076712	0.0037	257.14
24	MK3	0.12229216	0.0011	144.99
25	SK3	0.12511408	0.0015	6.63
26	MN4	0.15951067	0.0007	152.82
27	M4	0.16102278	0.0021	155.81
28	SN4	0.16233259	0.0008	156.66
29	MS4	0.16384470	0.0024	244.24
30	S4	0.16666669	0.0003	312.43
31	2MK5	0.20280355	0.0005	127.07
32	2SK5	0.20844740	0.0002	109.36
33	2MN6	0.24002206	0.0007	52.58
34	M6	0.24153417	0.0008	73.89
35	2MS6	0.24435616	0.0001	47.23
36	2SM6	0.24717808	0.0003	332.15
37	3MK7	0.28331494	0.0004	309.67
38	M8	0.32204562	0.0003	97.60

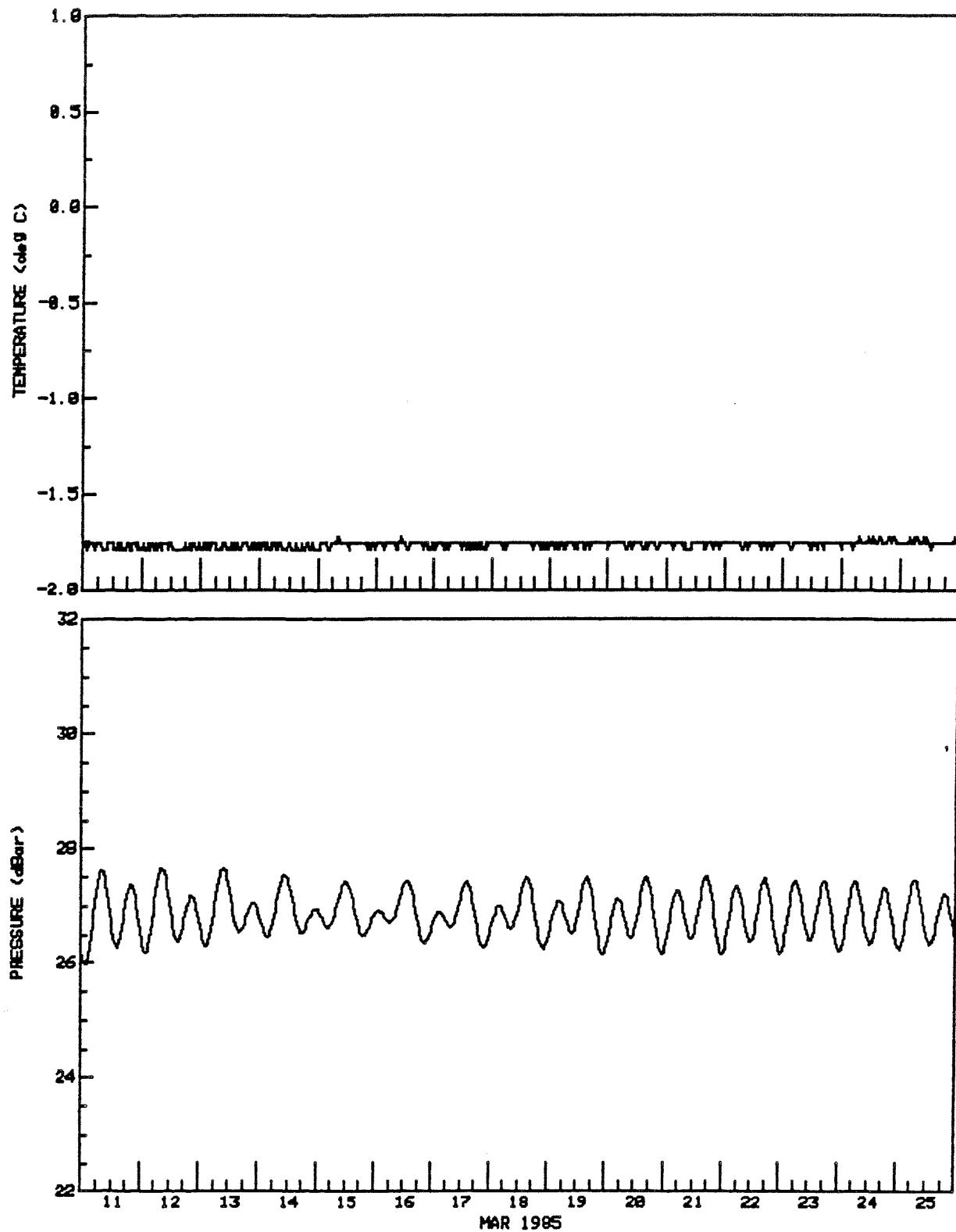
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLRS #334 DT(min) 30



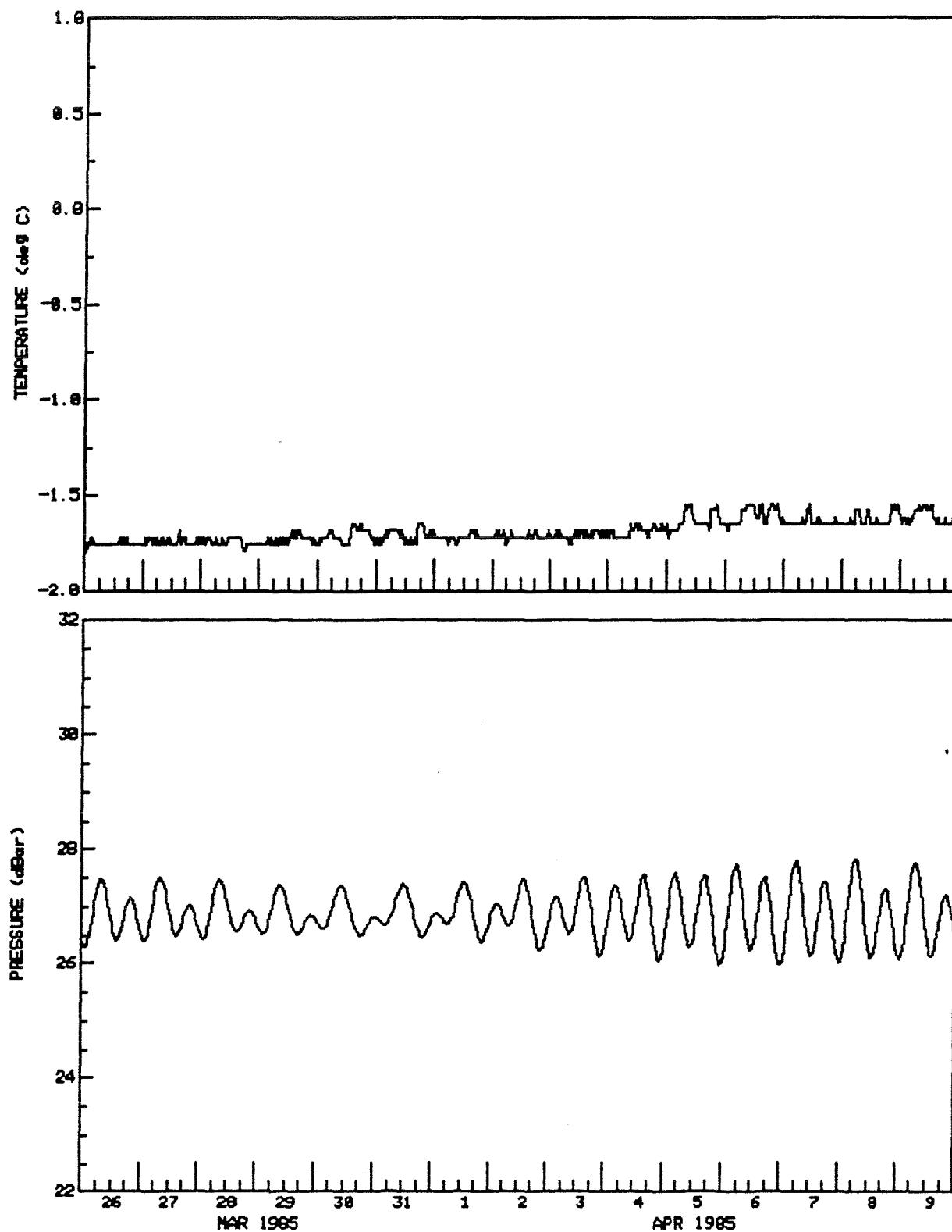
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLR5 #334 DT(min) 30



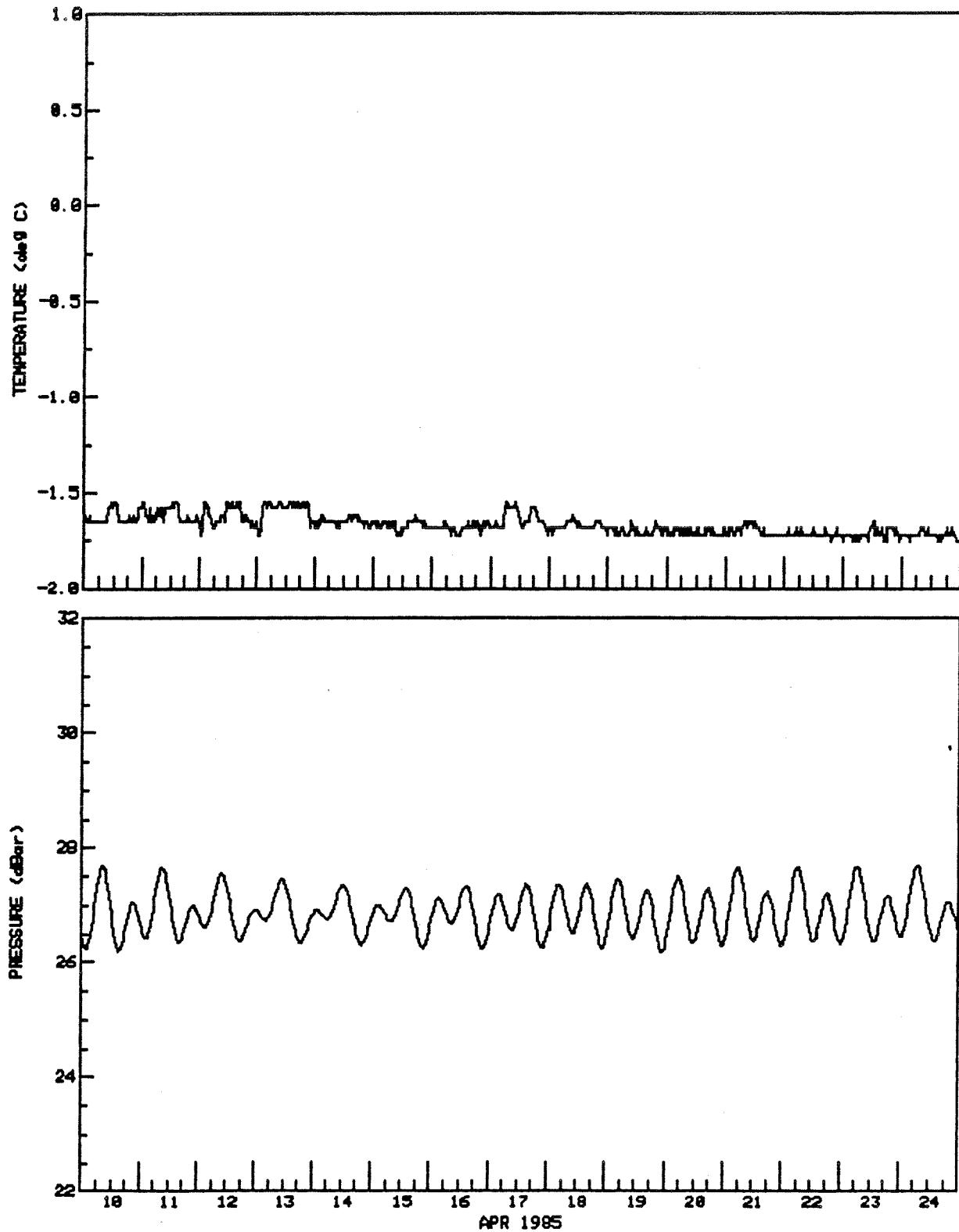
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLR5 #334 DT(min) 30



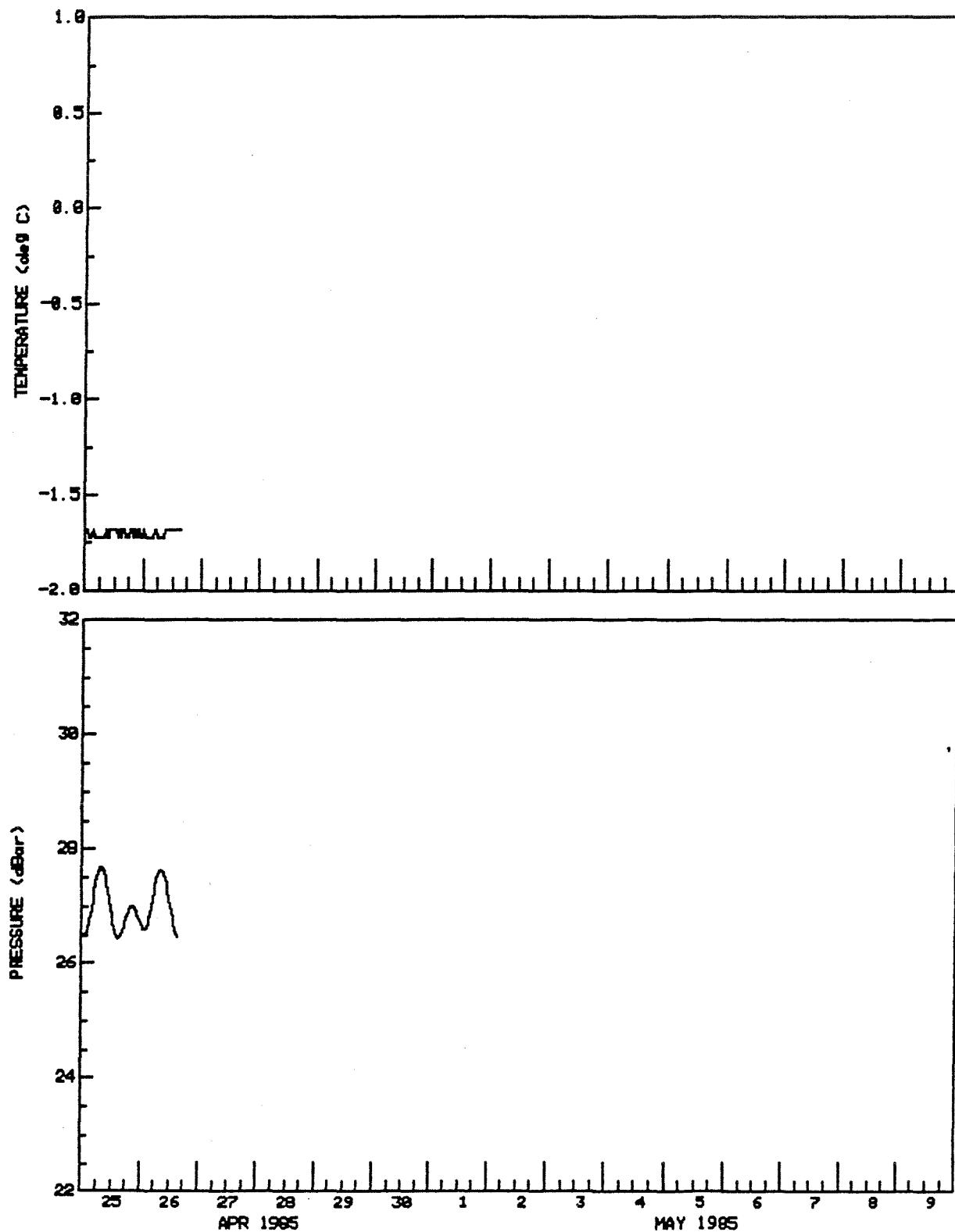
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27
72 12' 54"N 74 38' 42"W AANDERAA WLR5 #334 TYPE DESPIKED
DT(min) 30

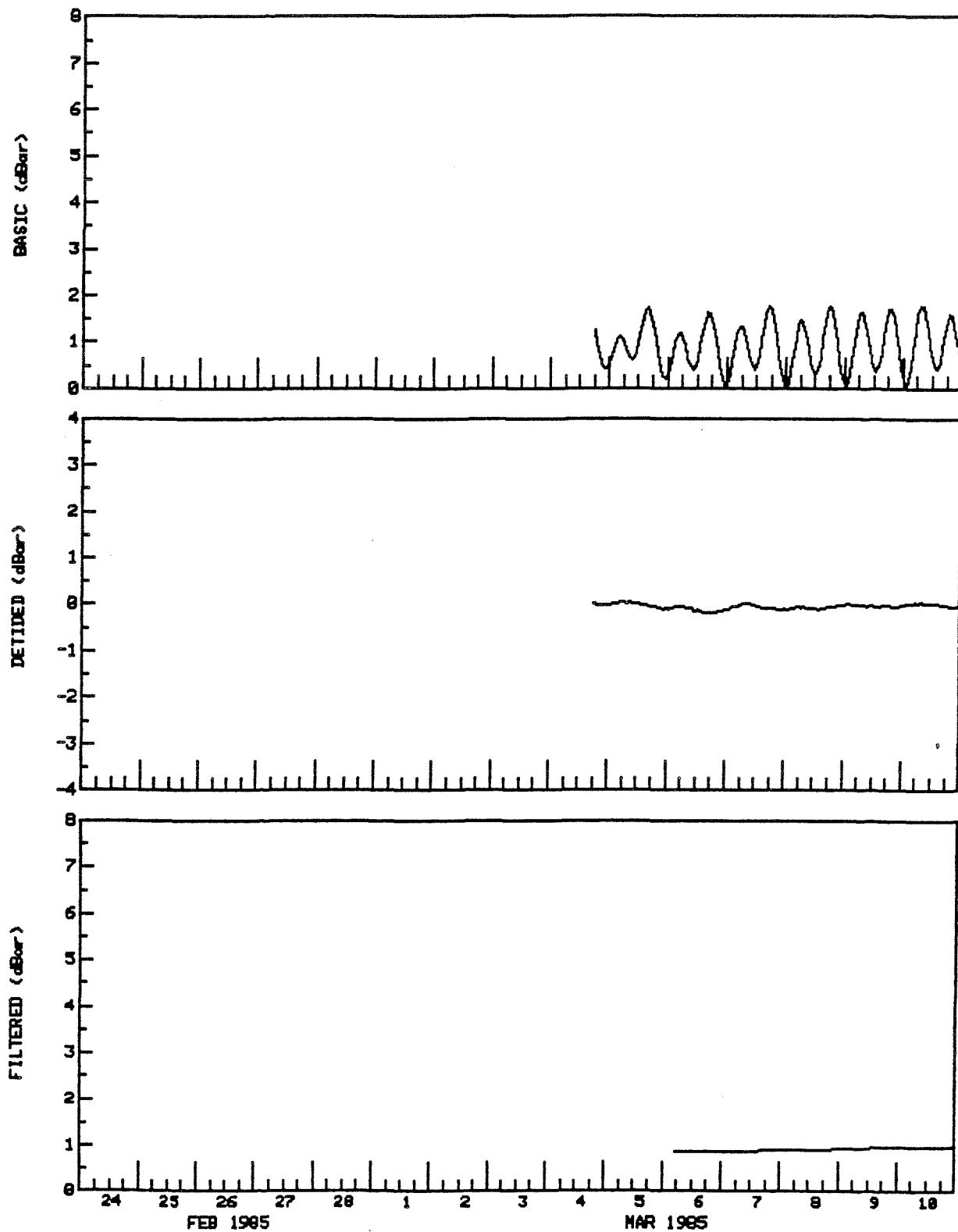


EASTERN ARCTIC TIDAL SURVEY, 1985

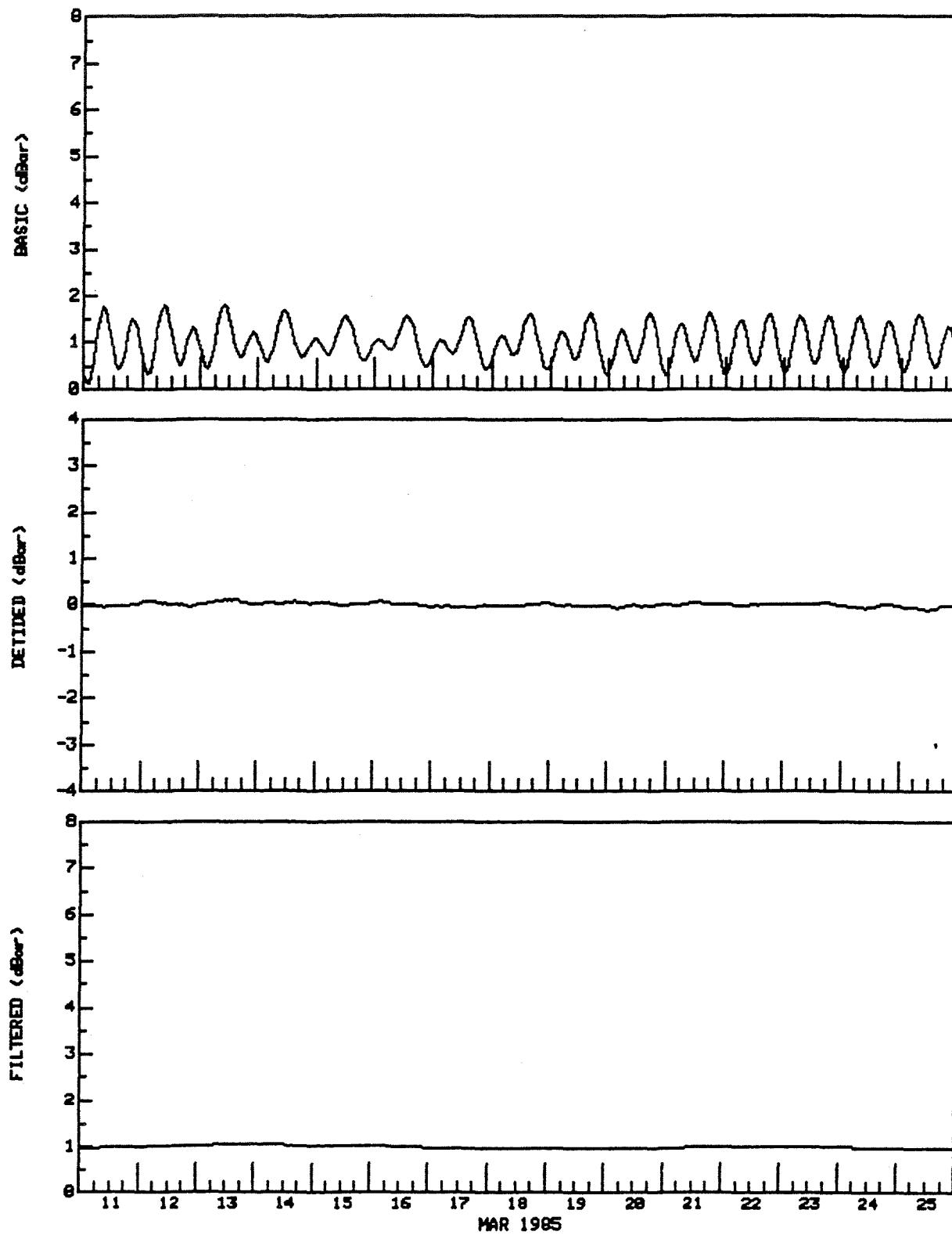
SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLR5 #334 DT(min) 30



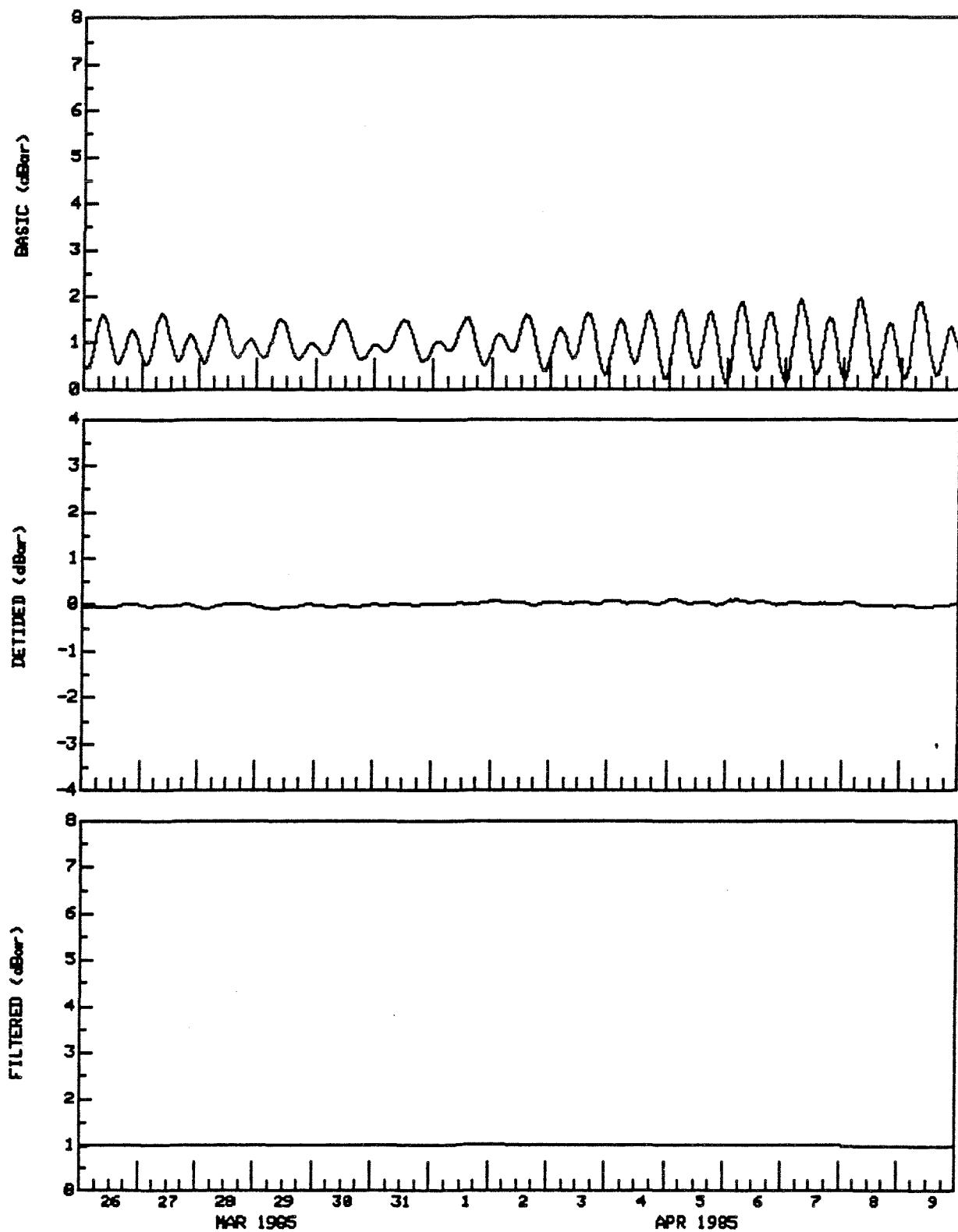
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLR5 #334 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLRS #334 DT(min) 60

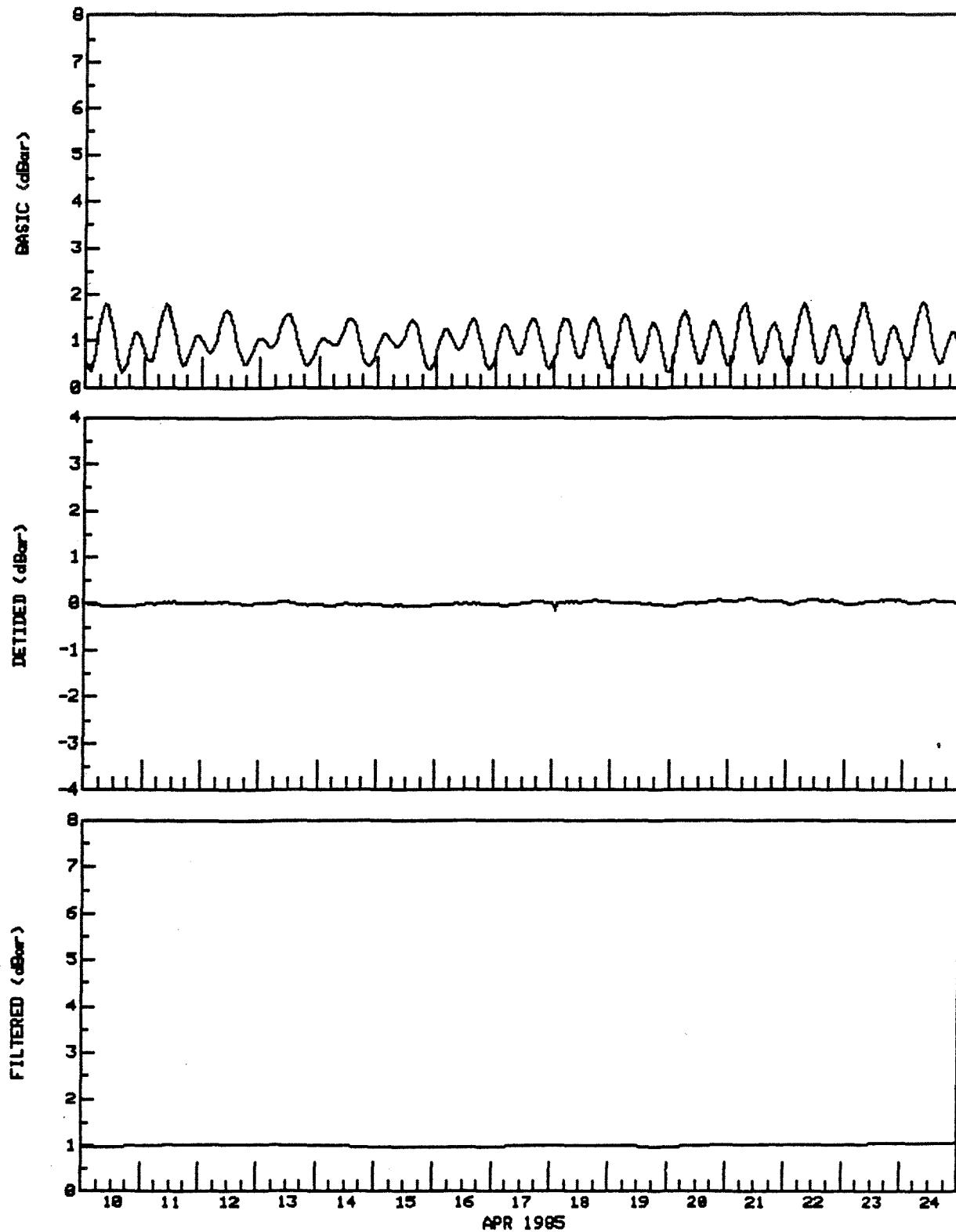


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLR5 #334 DT(min) 60

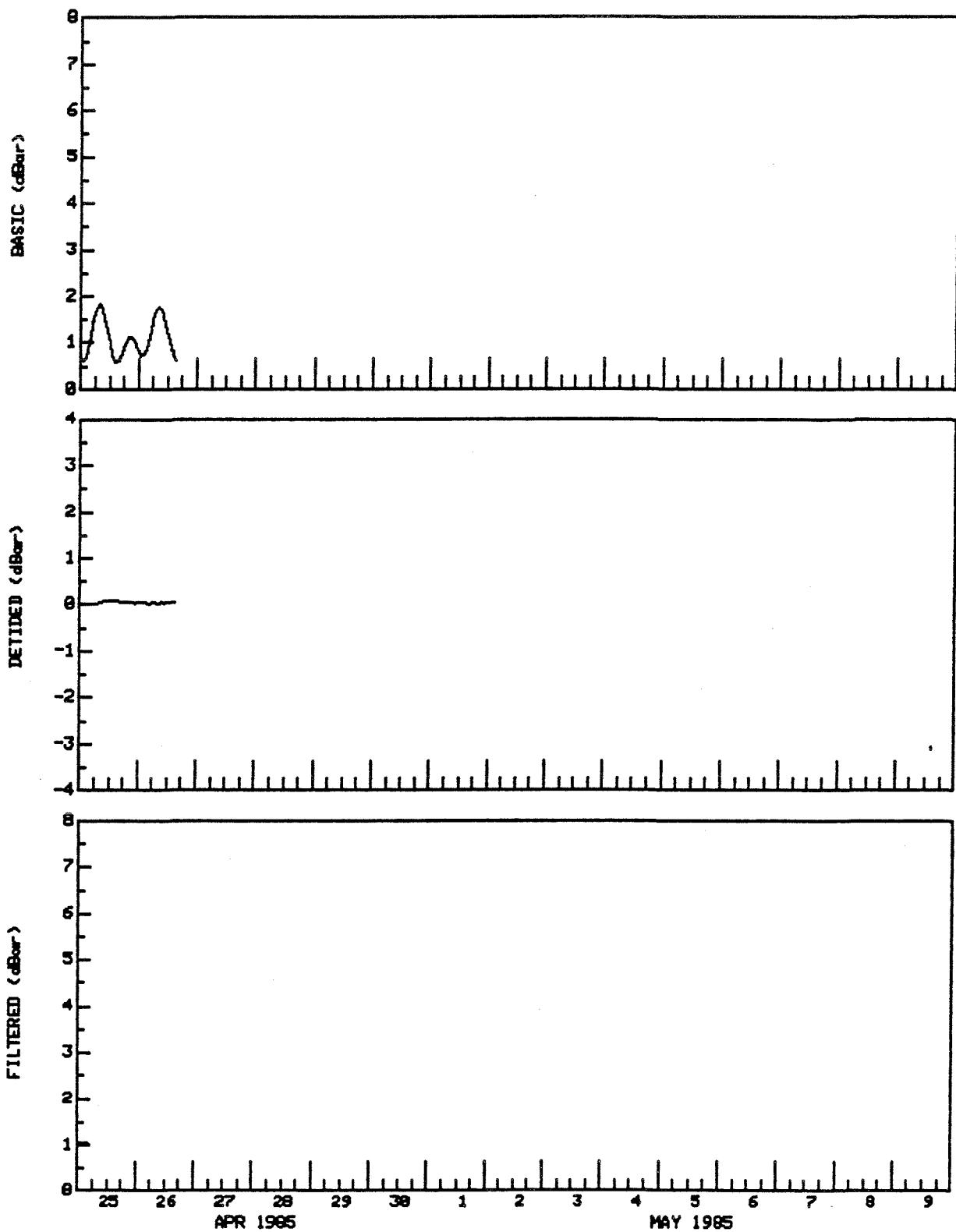


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLR5 #334 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #15 NOVA ZEMBLA ISLAND DEPTH(m) 27 TYPE DESPIKED
72 12' 54"N 74 38' 42"W AANDERAA WLR5 #334 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 17****TIDE GAUGE # 181**

Site # 17: Cape Liverpool

Position: 73°38'24"N 70°5'30"W

Tide Gauge #: Aanderaa WLR5 #181

Date/Time of Deployment: 1985/03/05 17:13

Date/Time of Recovery: 1985/04/26 17:59

Sampling Interval: 30 min

Number of Records on Tape: 2550

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	2.117	1.167	0.501
Detided Pressure	-0.407	0.354	0.011	0.188
Filtered Pressure	0.708	1.403	1.166	0.191

Data Quality: Timing 1 minute 42 seconds slow

Spiky pressure record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #17 CAPE LIVERPOOL LAT: 73 38 24.0 N
 DEPTH: 13 M LONG: 78 5 30.0 W
 START: 1800Z 5/ 3/85 END: 1700Z 26/ 4/85
 NO.OBS.= 1248 NO.PTS.ANAL.= 1248 MIDPT: 1700Z 31/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	1.1547	0.00
2	MM	0.00151215	0.0766	4.83
3	MSF	0.00282193	0.0631	280.26
4	ALP1	0.03439657	0.0015	300.61
5	2Q1	0.03570635	0.0022	47.85
6	Q1	0.03721850	0.0053	168.74
7	O1	0.03873065	0.0777	212.88
8	N01	0.04026860	0.0129	227.44
9	P1	0.04155259	0.0712	254.26 INF FR K1
10	K1	0.04178075	0.2159	254.26
11	J1	0.04329290	0.0127	333.96
12	001	0.04483084	0.0052	307.10
13	UPS1	0.04634299	0.0046	237.90
14	EPS2	0.07617730	0.0113	327.53
15	MU2	0.07768947	0.0291	39.87
16	N2	0.07899922	0.1220	110.56
17	M2	0.08051139	0.5385	135.92
18	L2	0.08202356	0.0247	98.12
19	S2	0.08333331	0.1942	183.12
20	K2	0.08356148	0.0524	183.12 INF FR S2
21	ETA2	0.08507365	0.0086	277.80
22	M03	0.11924207	0.0085	185.34
23	M3	0.12076712	0.0040	173.11
24	MK3	0.12229216	0.0060	198.19
25	SK3	0.12511408	0.0087	265.91
26	MN4	0.15951067	0.0120	91.40
27	M4	0.16102278	0.0217	90.20
28	SN4	0.16233259	0.0058	84.68
29	MS4	0.16384470	0.0135	140.90
30	S4	0.16666669	0.0023	127.08
31	2MK5	0.20280355	0.0029	340.30
32	2SK5	0.20844740	0.0026	61.49
33	2MN6	0.24002206	0.0052	190.16
34	M6	0.24153417	0.0075	214.34
35	2MS6	0.24435616	0.0098	261.35
36	2SM6	0.24717808	0.0040	302.08
37	3MK7	0.28331494	0.0017	16.27
38	M8	0.32204562	0.0028	325.26

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #17 CAPE LIVERPOOL

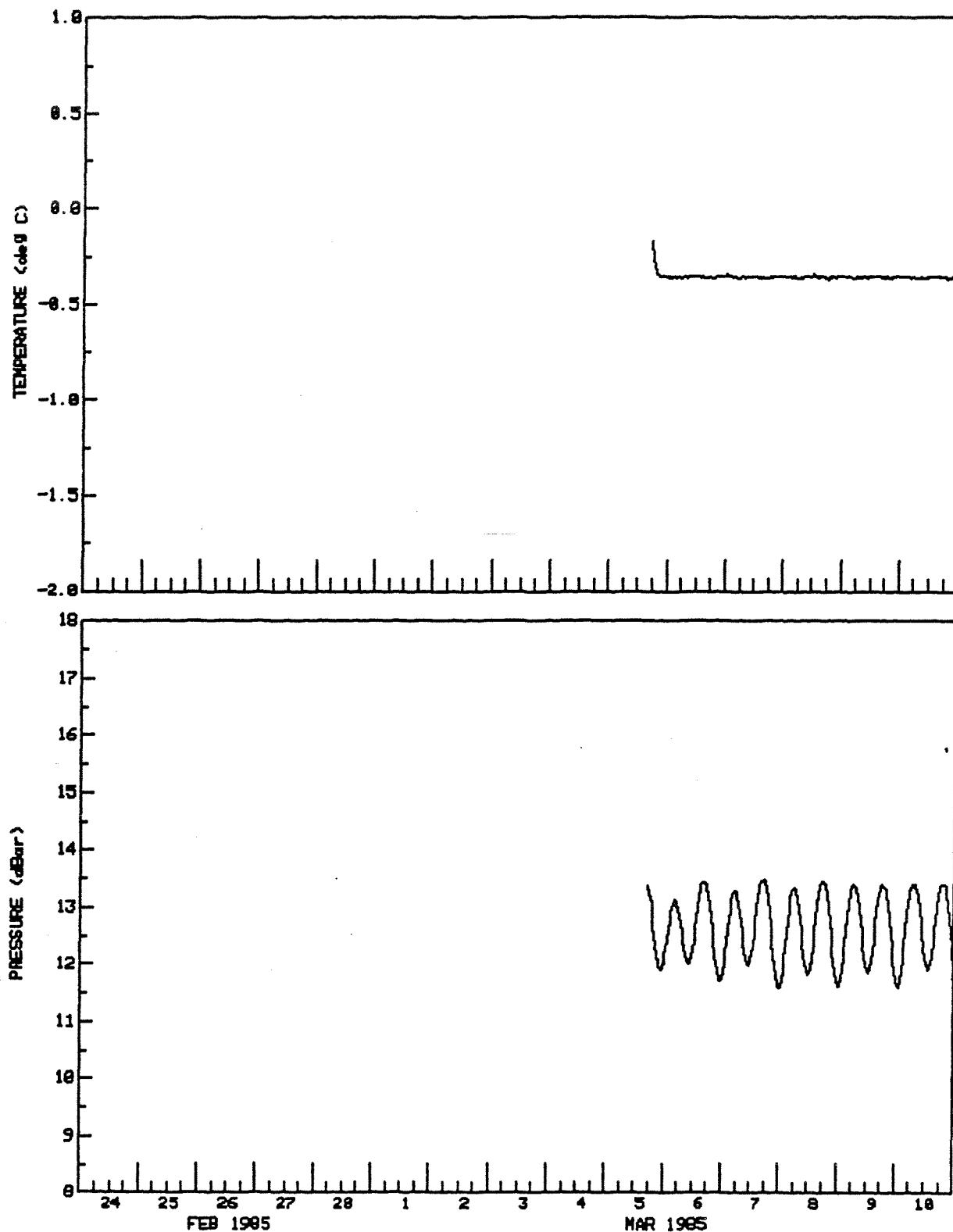
73 38' 24"N 78 5' 30"W

DEPTH(m) 14

AANDERAA WLR5 #181

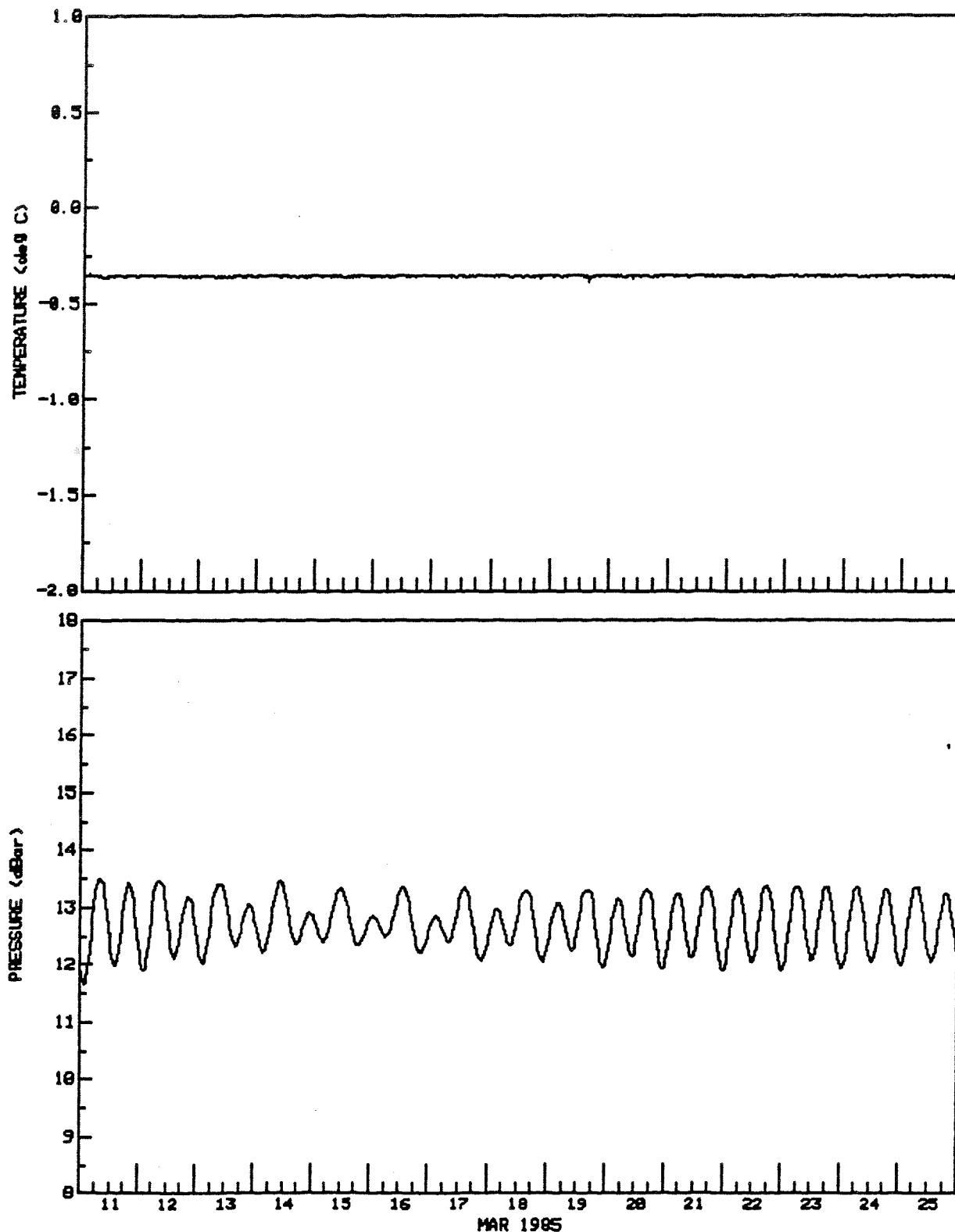
TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #17 CAPE LIVERPOOL DEPTH(m) 14 TYPE DESPIKED
73 38' 24"N 78 5' 30"W AANDERAA WLR5 #181 DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #17 CAPE LIVERPOOL

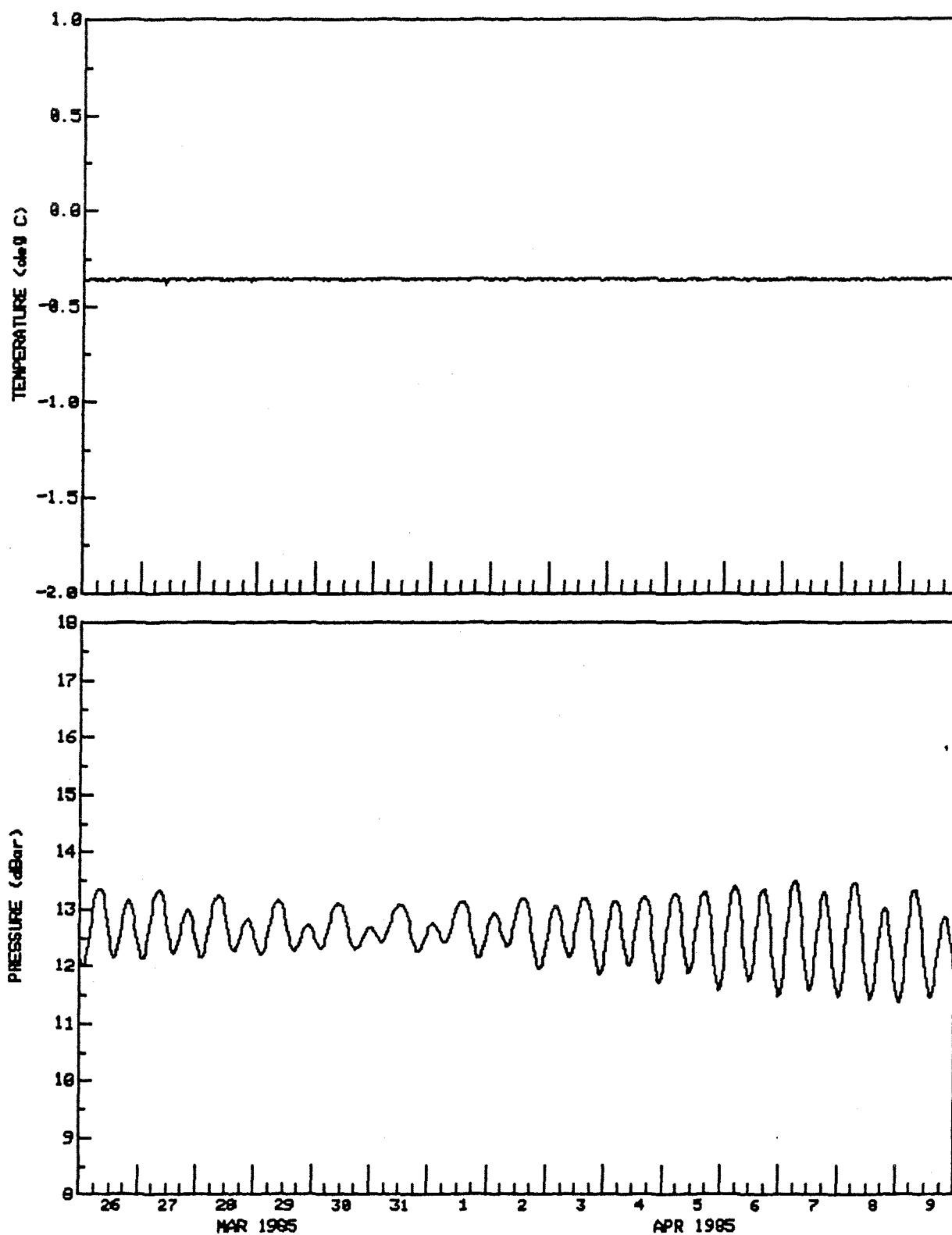
73 38' 24"N 78 5' 30"W

DEPTH(m) 14

AANDERAA WLR5 #181

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #17 CAPE LIVERPOOL

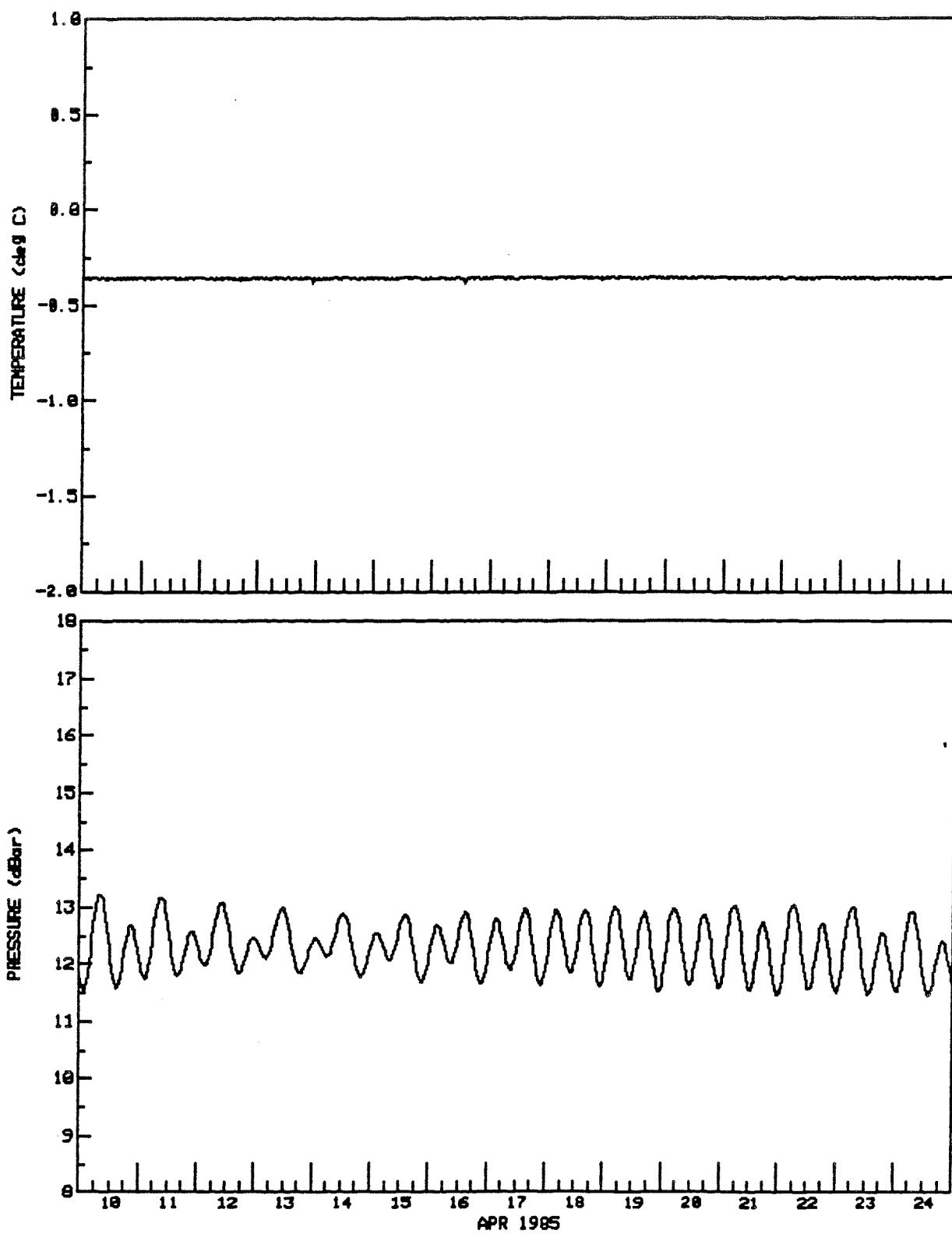
DEPTH(m) 14

TYPE DESPIKED

73 38' 24"N 78 5' 30"W

AANDERAA WLR5 #181

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #17 CAPE LIVERPOOL

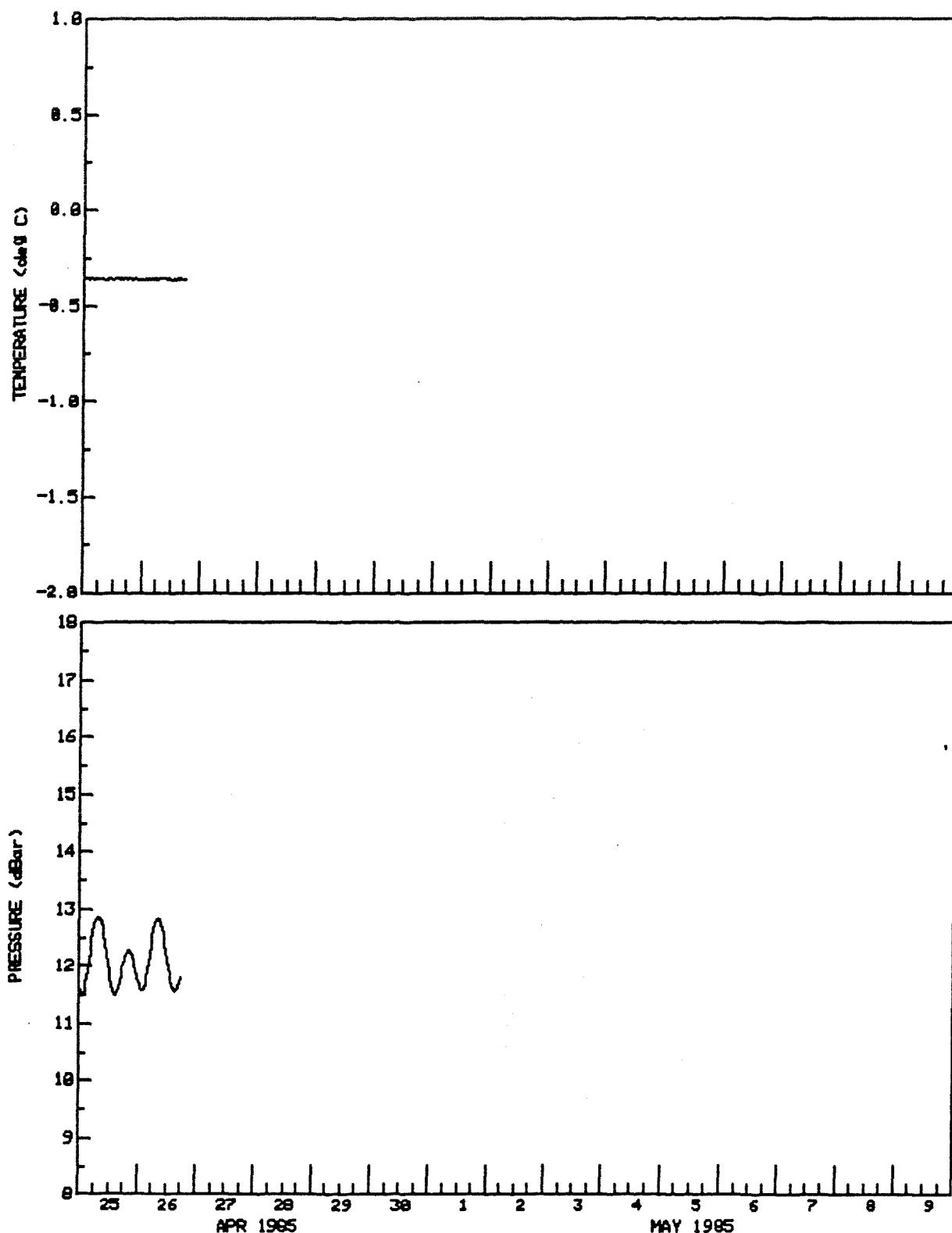
73 38' 24"N 78 5' 30"W

DEPTH(m) 14

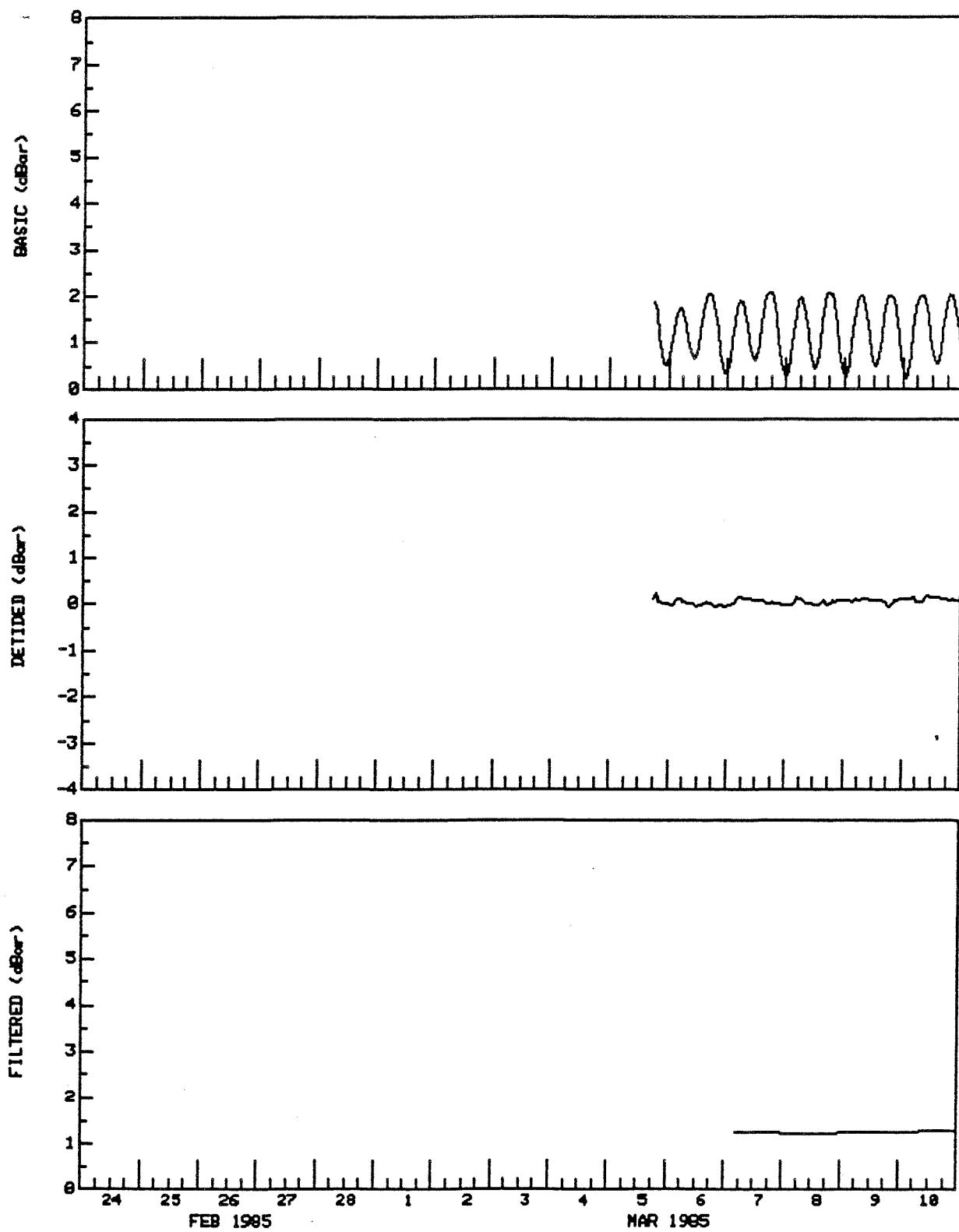
AANDERAA WLRS #181

TYPE DESPIKED

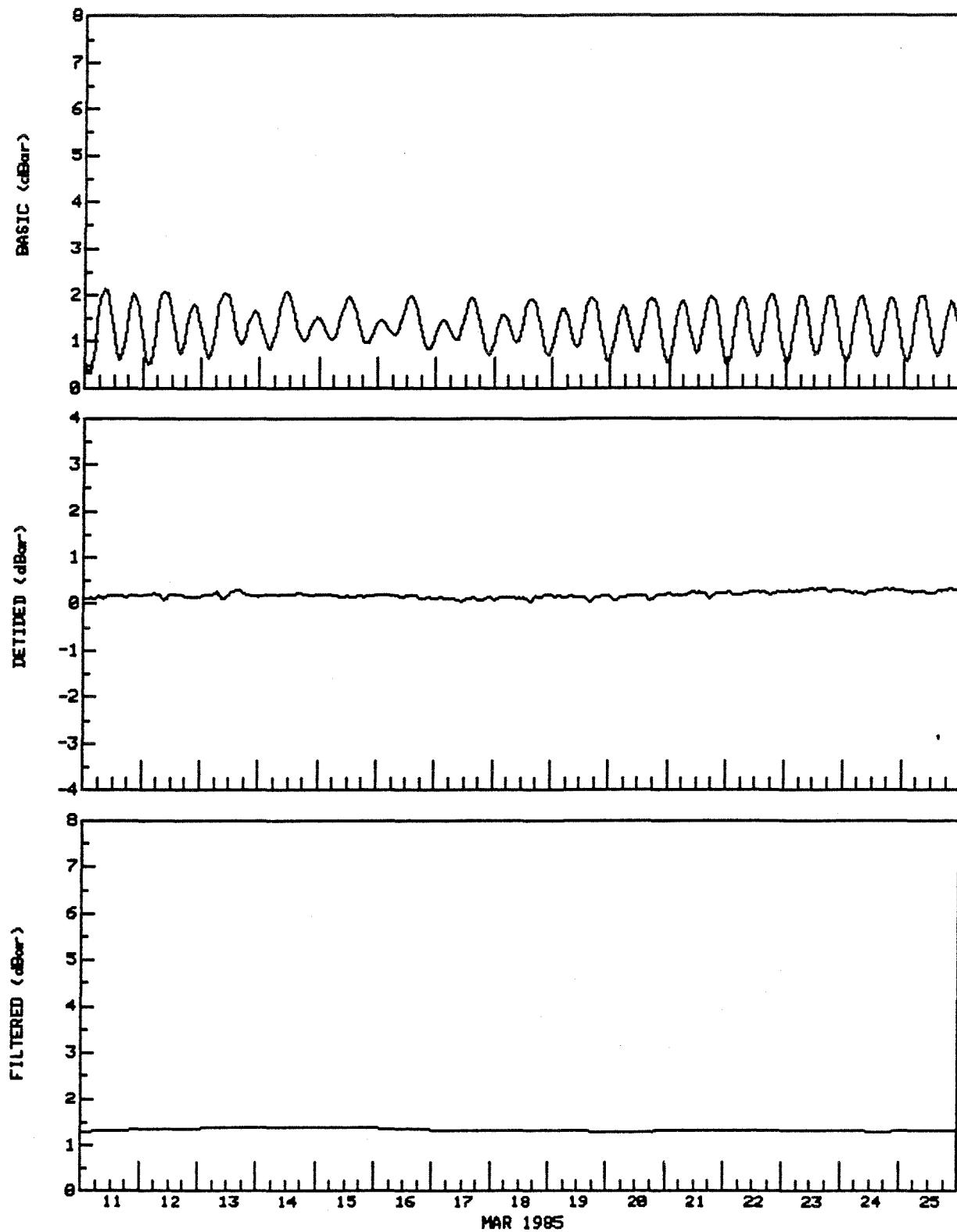
DT(min) 30



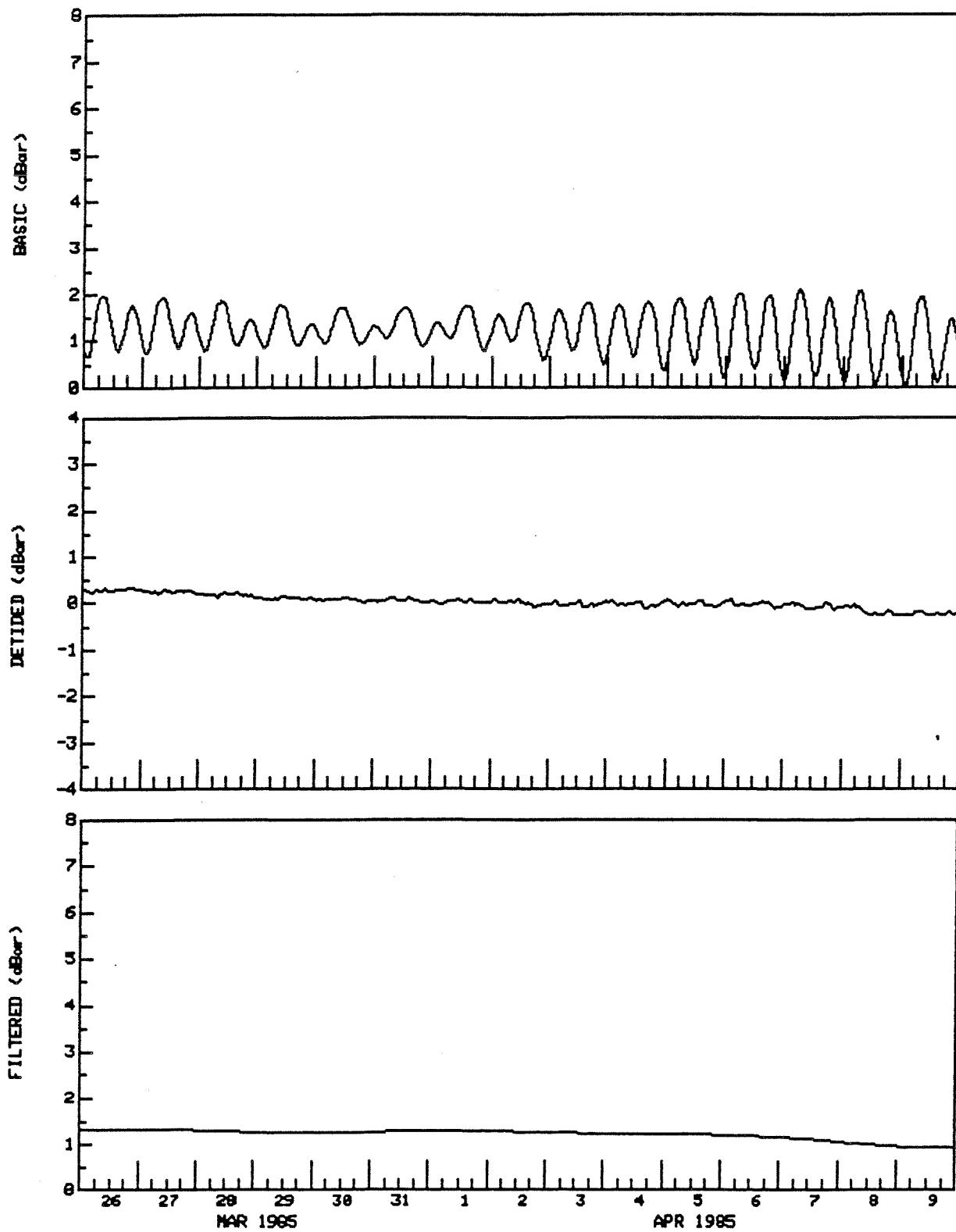
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #17 CAPE LIVERPOOL DEPTH(m) 14 TYPE DESPIKED
73 38' 24"N 78 5' 30"W AANDERAA VLR5 #181 DT(min) 60



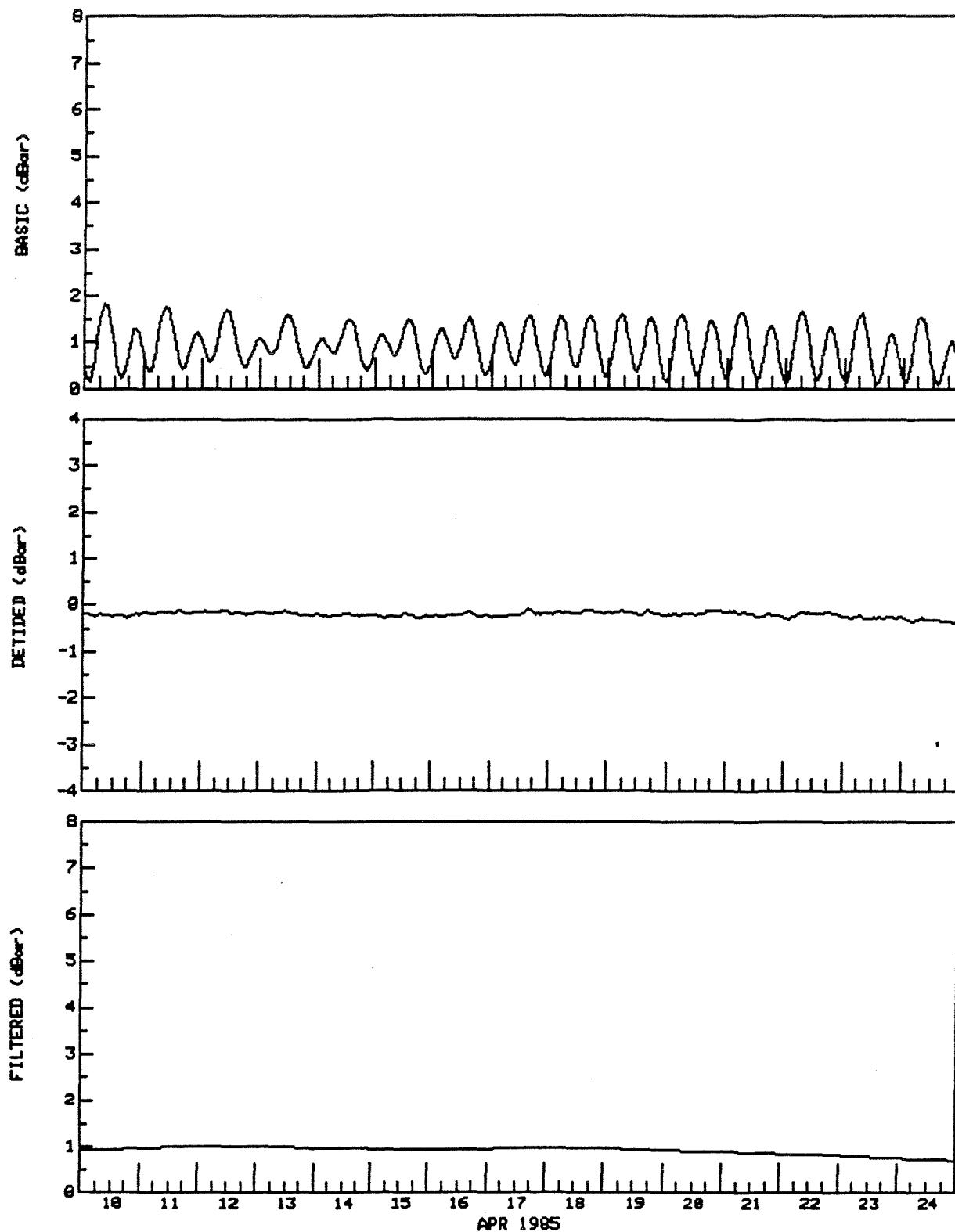
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #17 CAPE LIVERPOOL DEPTH(m) 14 TYPE DESPIKED
73 38' 24"N 78 5' 30"W AANDERAA WLR5 #181 DT(min) 60



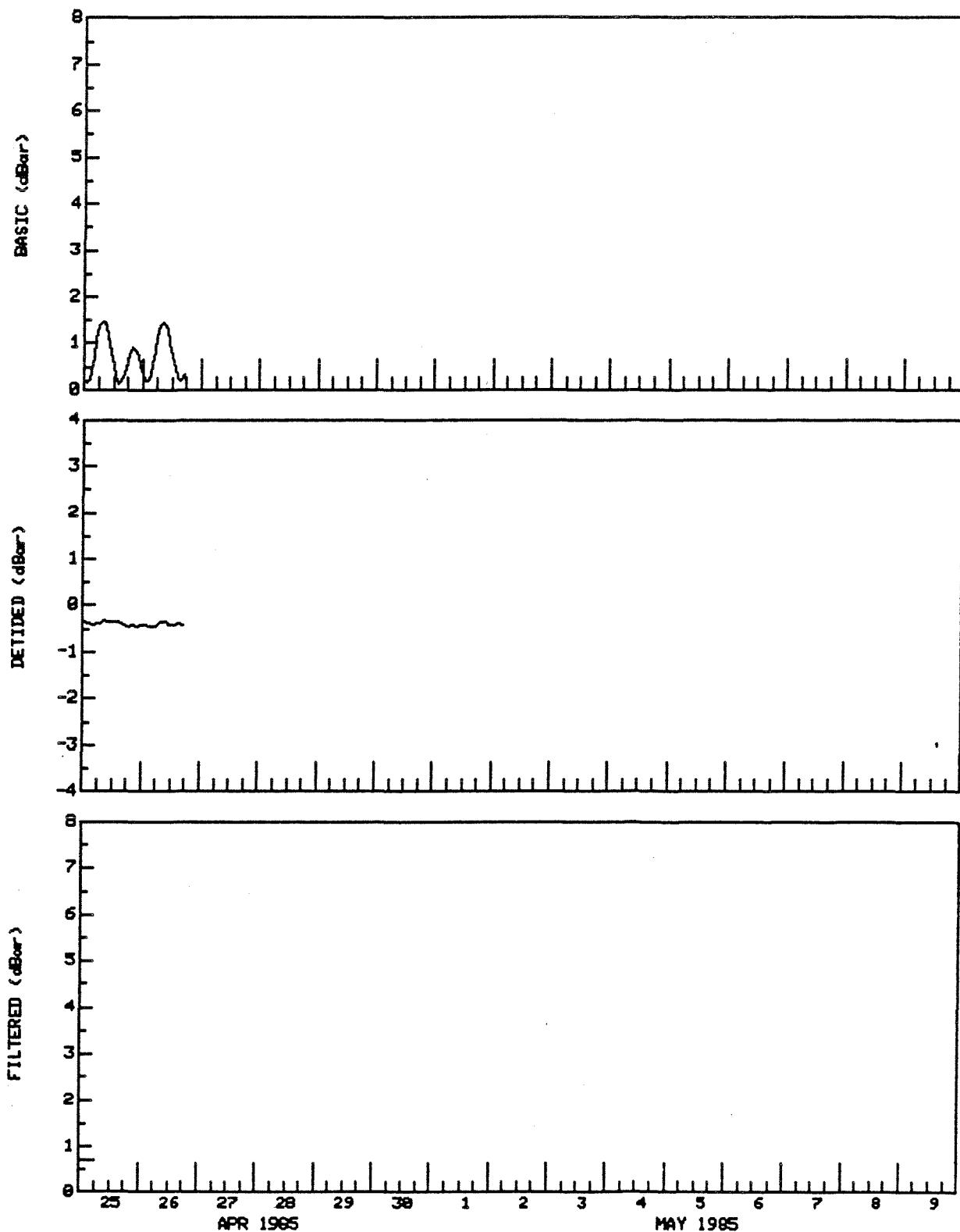
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #17 CAPE LIVERPOOL DEPTH(m) 14 TYPE DESPIKED
73 38' 24"N 78 5' 30"W AANDERAA WLR5 #181 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #17 CAPE LIVERPOOL DEPTH(m) 14 TYPE DESPIKED
73 38' 24"N 78 5' 30"W AANDERAA WLR5 #181 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #17 CAPE LIVERPOOL DEPTH(m) 14 TYPE DESPIKED
73 38' 24"N 78 5' 30"W AANDERAA WLR5 #181 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 18****TIDE GAUGE # 830**

Site # 18: Canada Point

Position: 73°16'18"N 80°46'18"W

Tide Gauge #: Aanderaa WLR5 #830

Date/Time of Deployment: 1985/03/05 18:31

Date/Time of Recovery: 1985/04/26 18:53

Sampling Interval: 30 min

Number of Records on Tape: 2550

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	2.428	1.204	0.523
Detided Pressure	-0.109	0.124	0.002	0.039
Filtered Pressure	1.087	1.269	1.204	0.031

Data Quality: Timing 35 seconds slow

Very spiky pressure record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #18 CANADA POINT LAT: 73 16 18.0 N
 DEPTH: 35 M LONG: 80 46 18.0 W
 START: 1900Z 5/ 3/85 END: 1800Z 26/ 4/85
 NO.OBS.= 1248 NO.PTS.ANAL.= 1248 MIDPT: 1800Z 31/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	1.1944	0.00
2	MM	0.00151215	0.0164	198.34
3	MSF	0.00282193	0.0272	170.50
4	ALP1	0.03439657	0.0021	161.75
5	ZQ1	0.03570635	0.0048	307.46
6	Q1	0.03721850	0.0064	232.78
7	O1	0.03873065	0.0884	221.55
8	NO1	0.04026860	0.0118	260.20
9	P1	0.04155259	0.0746	258.78 INF FR K1
10	K1	0.04178075	0.2261	258.78
11	J1	0.04329290	0.0096	300.63
12	OO1	0.04483084	0.0084	300.79
13	UPS1	0.04634299	0.0027	267.25
14	EPS2	0.07617730	0.0095	335.66
15	MU2	0.07768947	0.0352	63.71
16	N2	0.07899922	0.1433	115.44
17	M2	0.08051139	0.6125	139.04
18	L2	0.08202356	0.0111	110.87
19	S2	0.08333331	0.2218	185.81
20	K2	0.08356148	0.0599	185.81 INF FR S2
21	ETA2	0.08507365	0.0093	270.61
22	M03	0.11924207	0.0029	226.49
23	M3	0.12076712	0.0035	261.28
24	MK3	0.12229216	0.0008	55.90
25	SK3	0.12511408	0.0033	6.32
26	MN4	0.15951067	0.0011	85.97
27	M4	0.16102278	0.0032	152.42
28	SN4	0.16233259	0.0006	188.94
29	MS4	0.16384470	0.0040	229.83
30	S4	0.16666669	0.0008	260.70
31	2MK5	0.20280355	0.0017	91.63
32	2SK5	0.20844740	0.0015	213.68
33	2MN6	0.24002206	0.0014	210.43
34	M6	0.24153417	0.0009	277.95
35	2MS6	0.24435616	0.0008	289.13
36	2SM6	0.24717808	0.0007	115.93
37	3MK7	0.28331494	0.0006	203.18
38	M8	0.32204562	0.0004	118.80

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #18 CANADA POINT

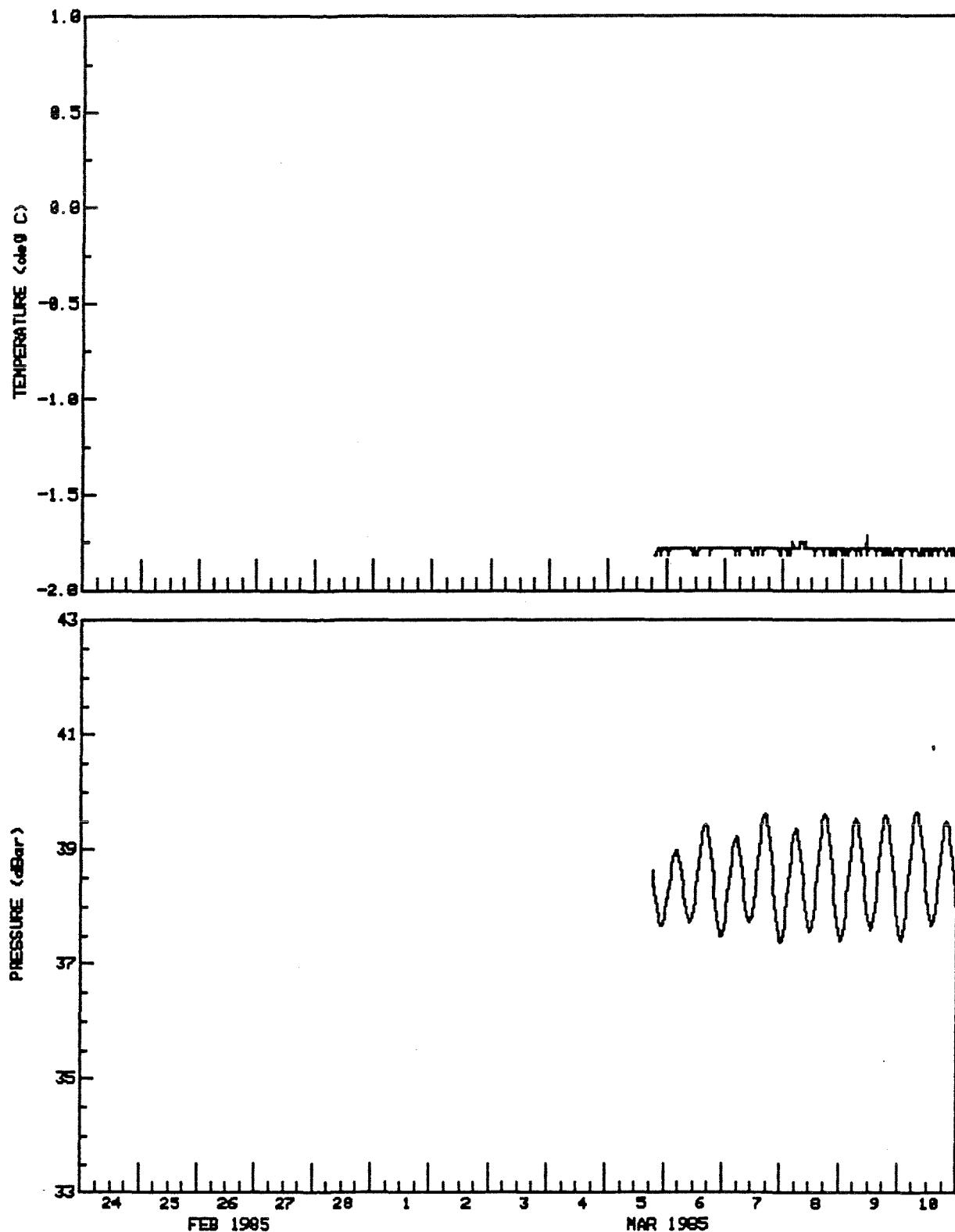
DEPTH(m) 39

TYPE DESPIKED

73 16' 18"N 80 46' 18"W

AANDERAA WLR5 #830

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #18 CANADA POINT

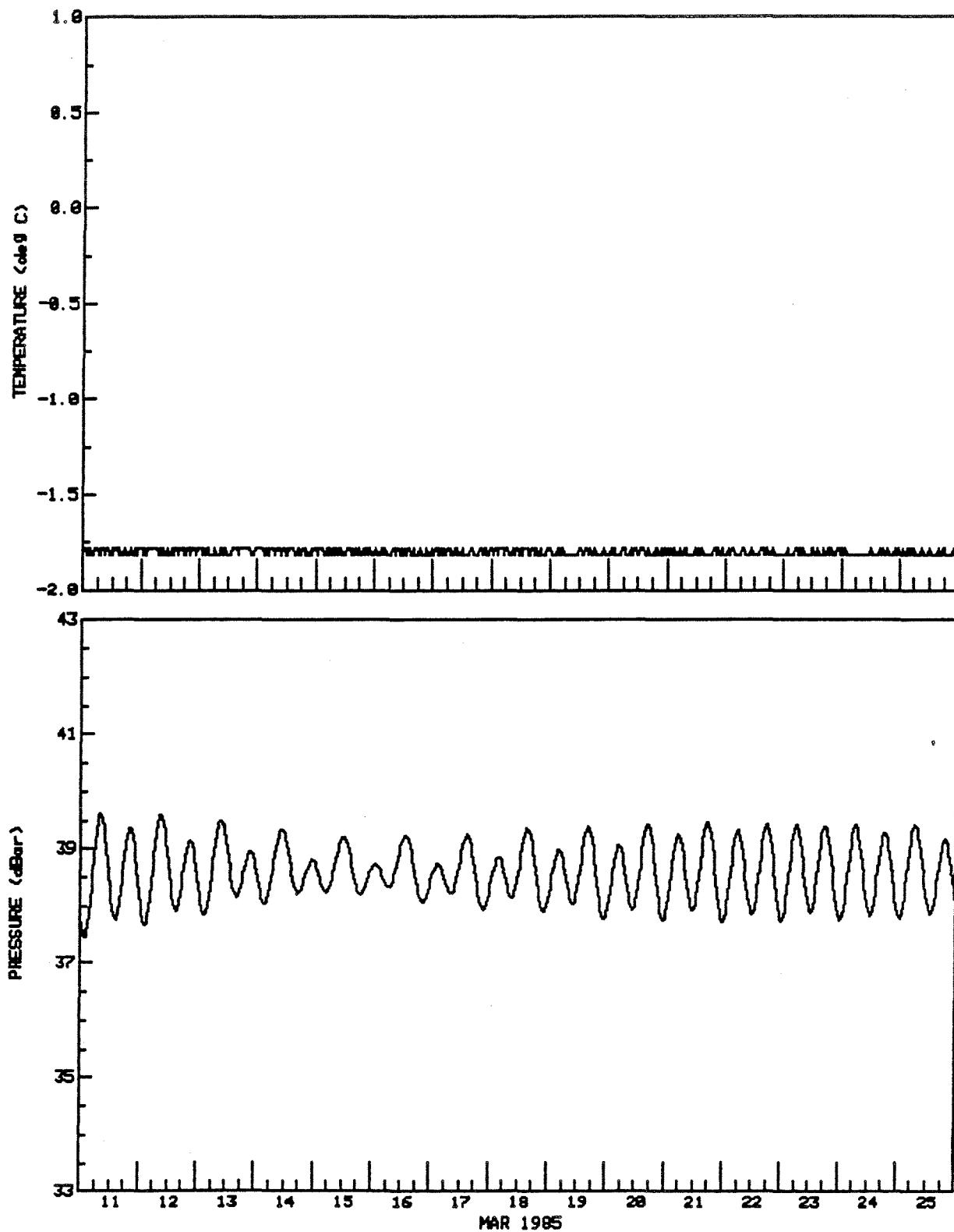
DEPTH(m) 39

TYPE DESPIKED

73 16' 18"N 80 46' 18"W

AANDERAA WLR5 #830

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #18 CANADA POINT

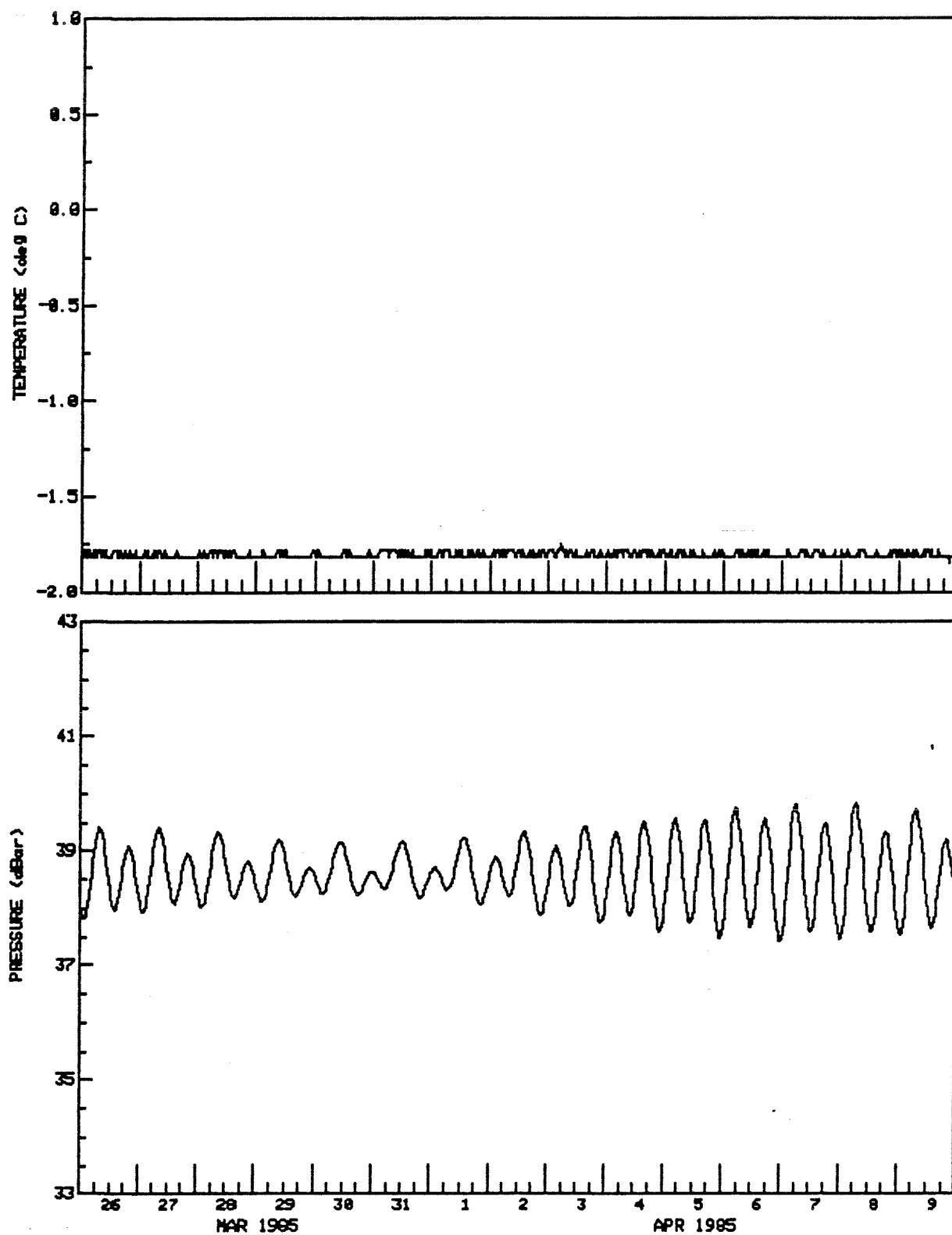
DEPTH(m) 39

TYPE DESPIKED

73 16' 18"N 80 46' 18"W

AANDERAA WLR5 #830

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #18 CANADA POINT

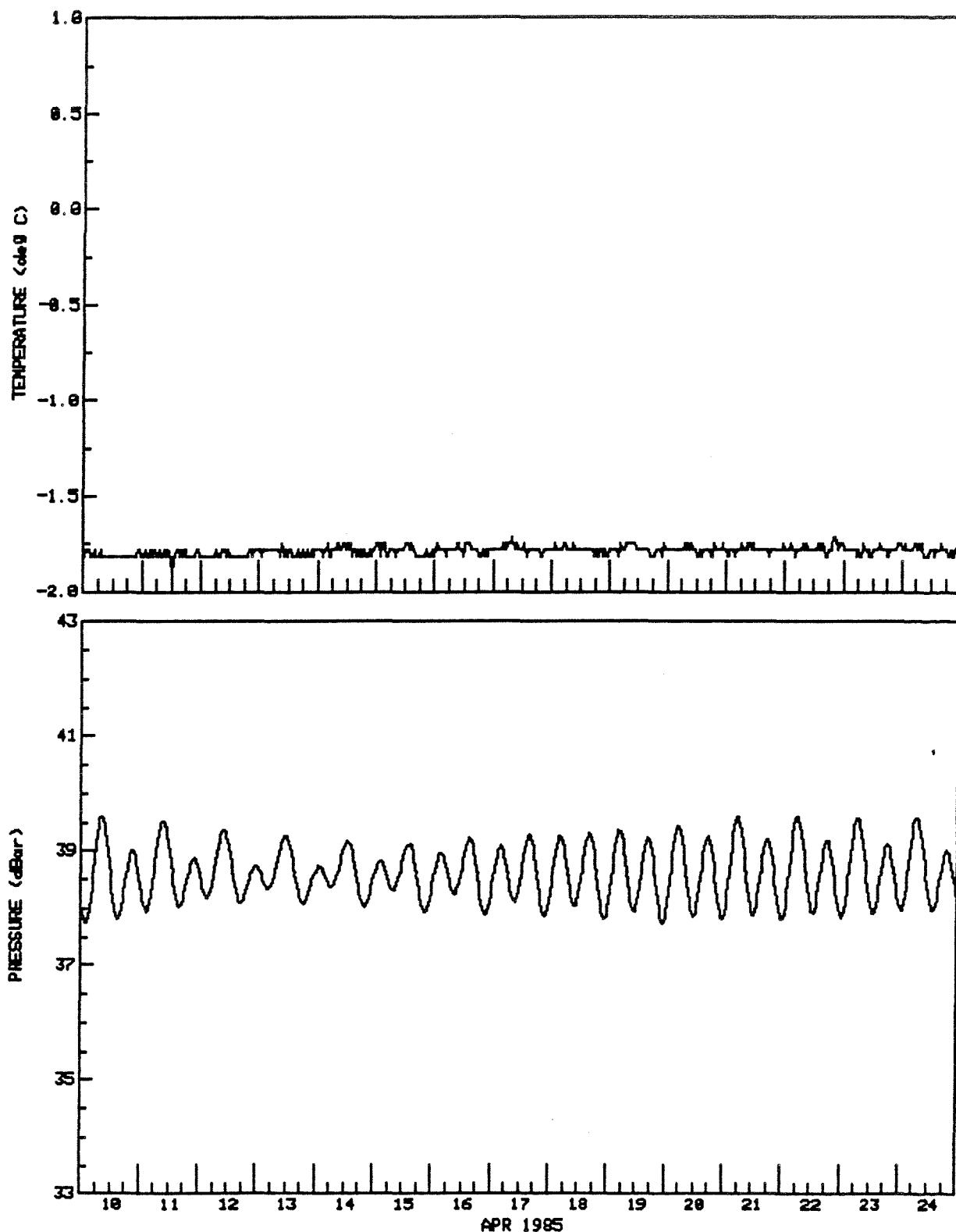
DEPTH(m) 39

TYPE DESPIKED

73 16' 18"N 80 46' 18"W

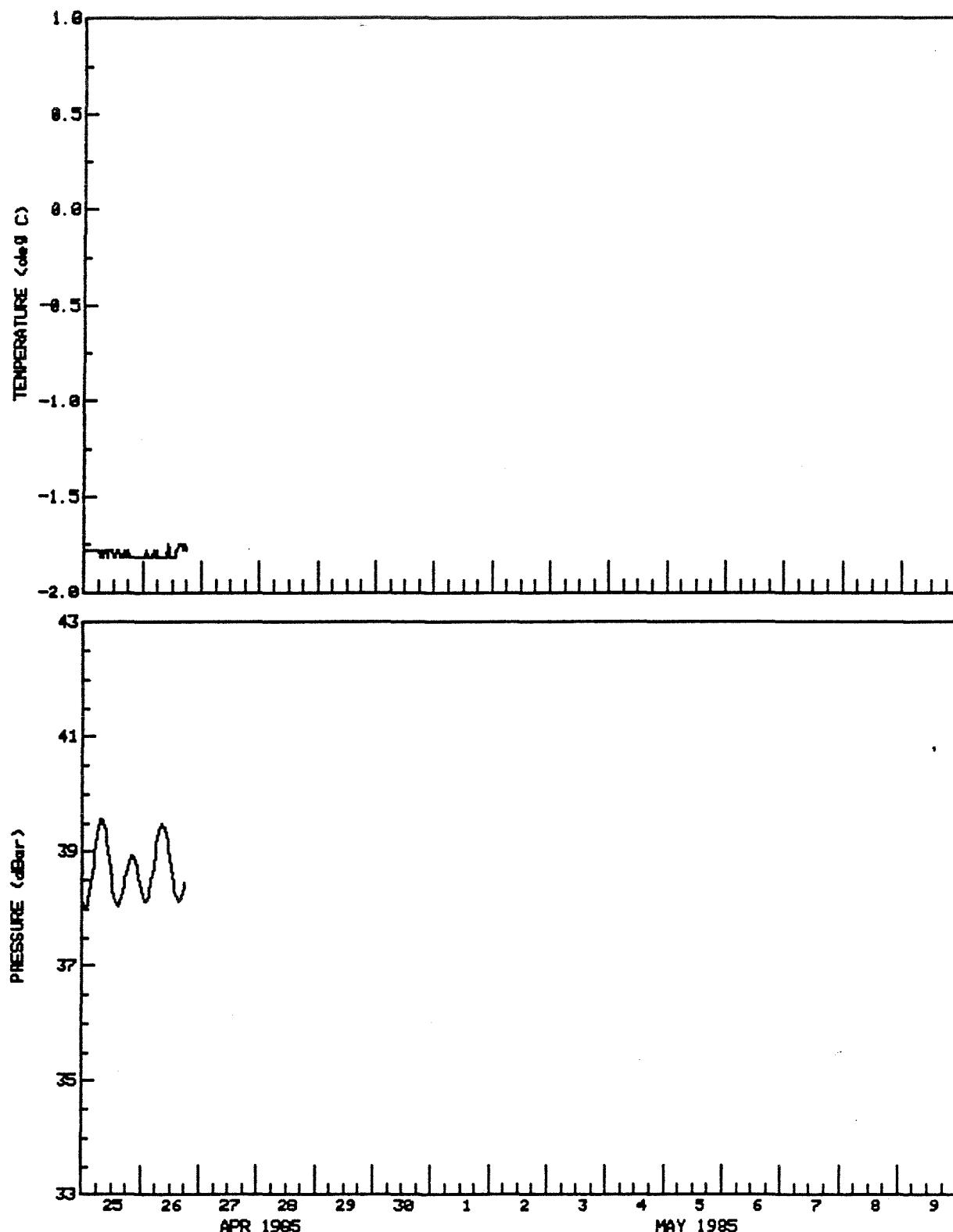
AANDERAA WLRS #830

DT(min) 30

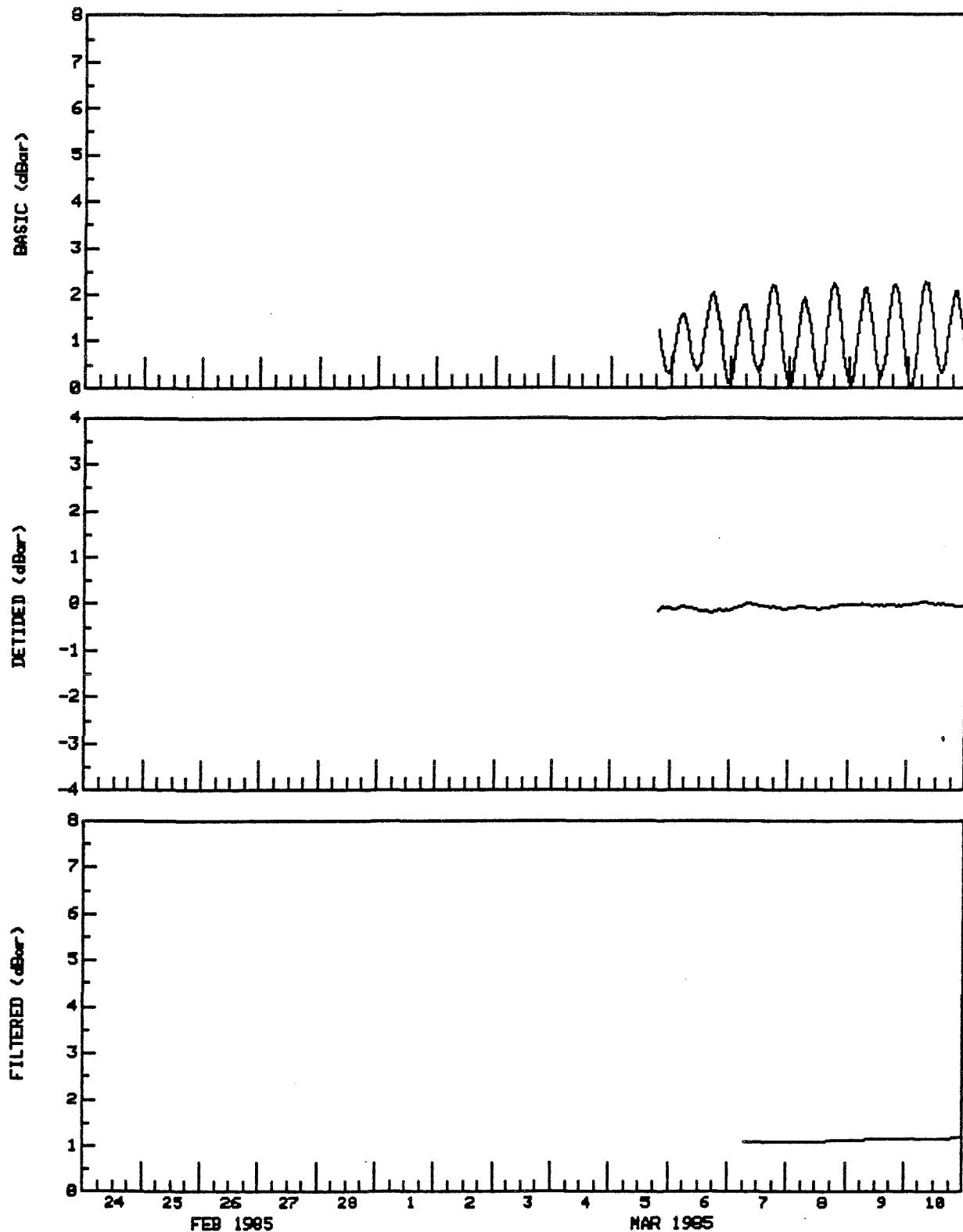


EASTERN ARCTIC TIDAL SURVEY, 1985

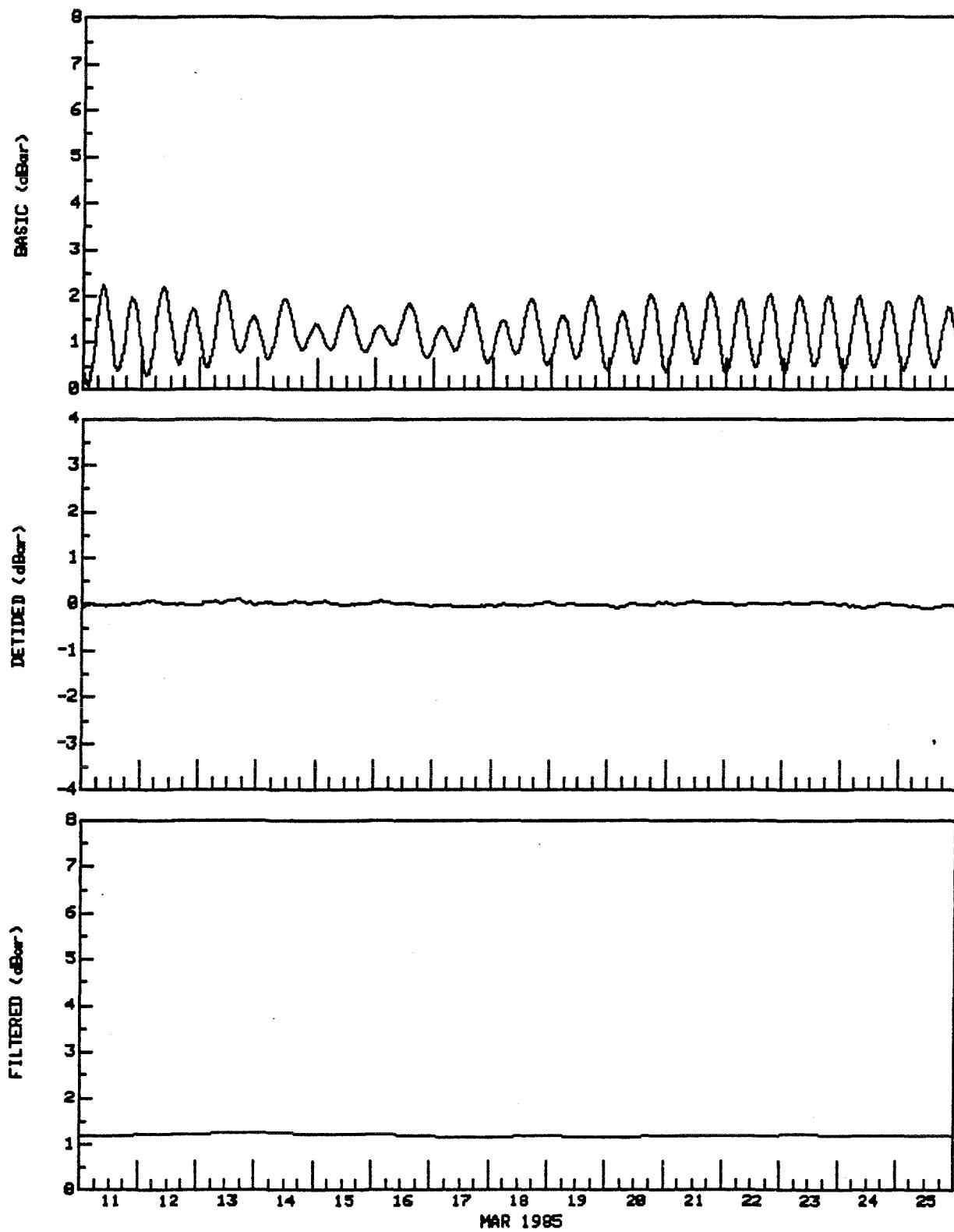
SITE #18 CANADA POINT DEPTH(m) 39 TYPE DESPIKED
73 16' 18"N 80 46' 18"W AANDERAA WLR5 #830 DT(min) 30



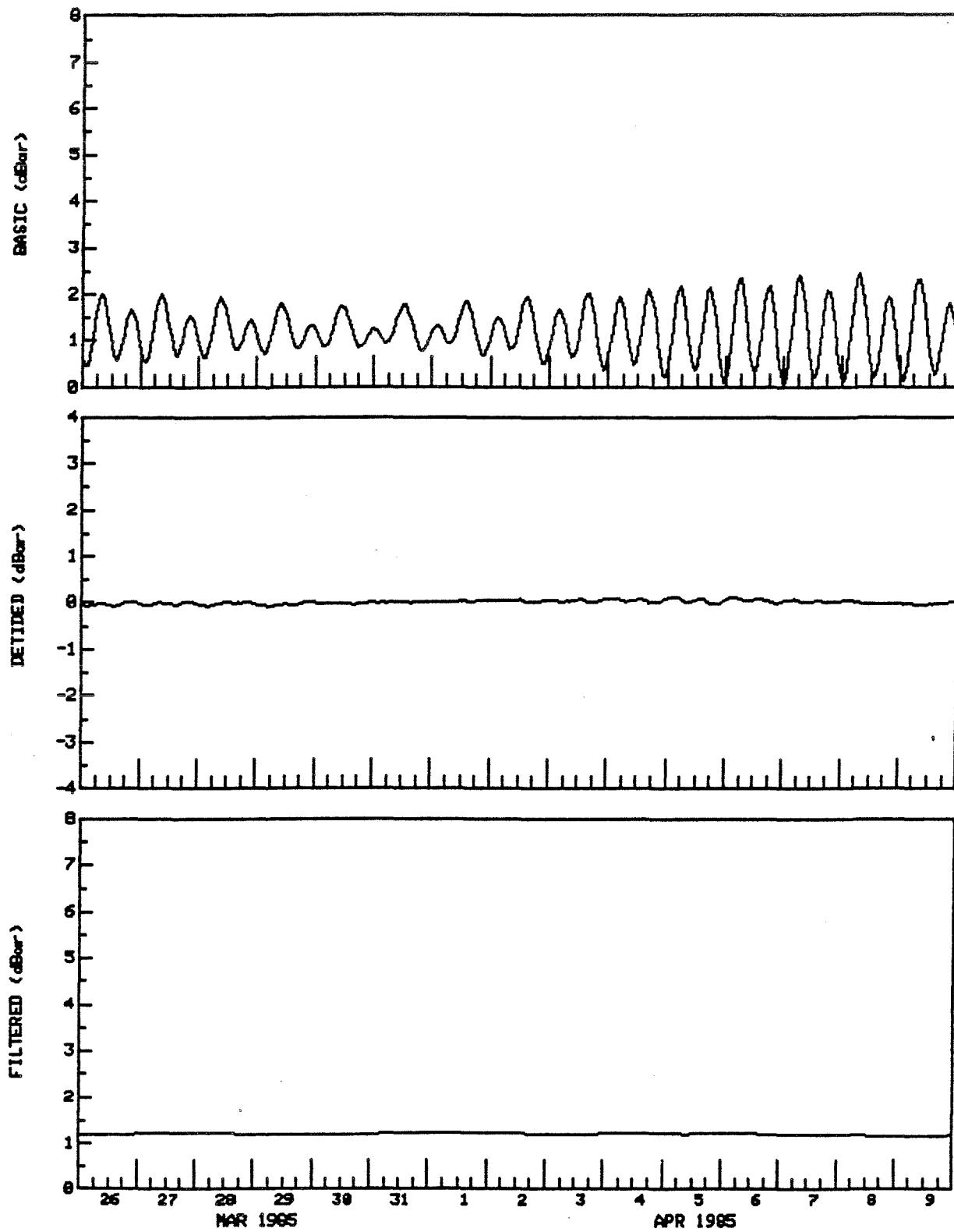
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #18 CANADA POINT DEPTH(m) 39 TYPE DESPIKED
73 16' 18"N 80 46' 18"W AANDERAA WLR5 #830 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #18 CANADA POINT DEPTH(m) 39 TYPE DESPIKED
73 16' 18"N 80 46' 18"W AANDERAA WLR5 #830 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #18 CANADA POINT DEPTH(m) 39 TYPE DESPIKED
73 16' 18"N 80 46' 18"W AANDERAA WLR5 #830 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #18 CANADA POINT

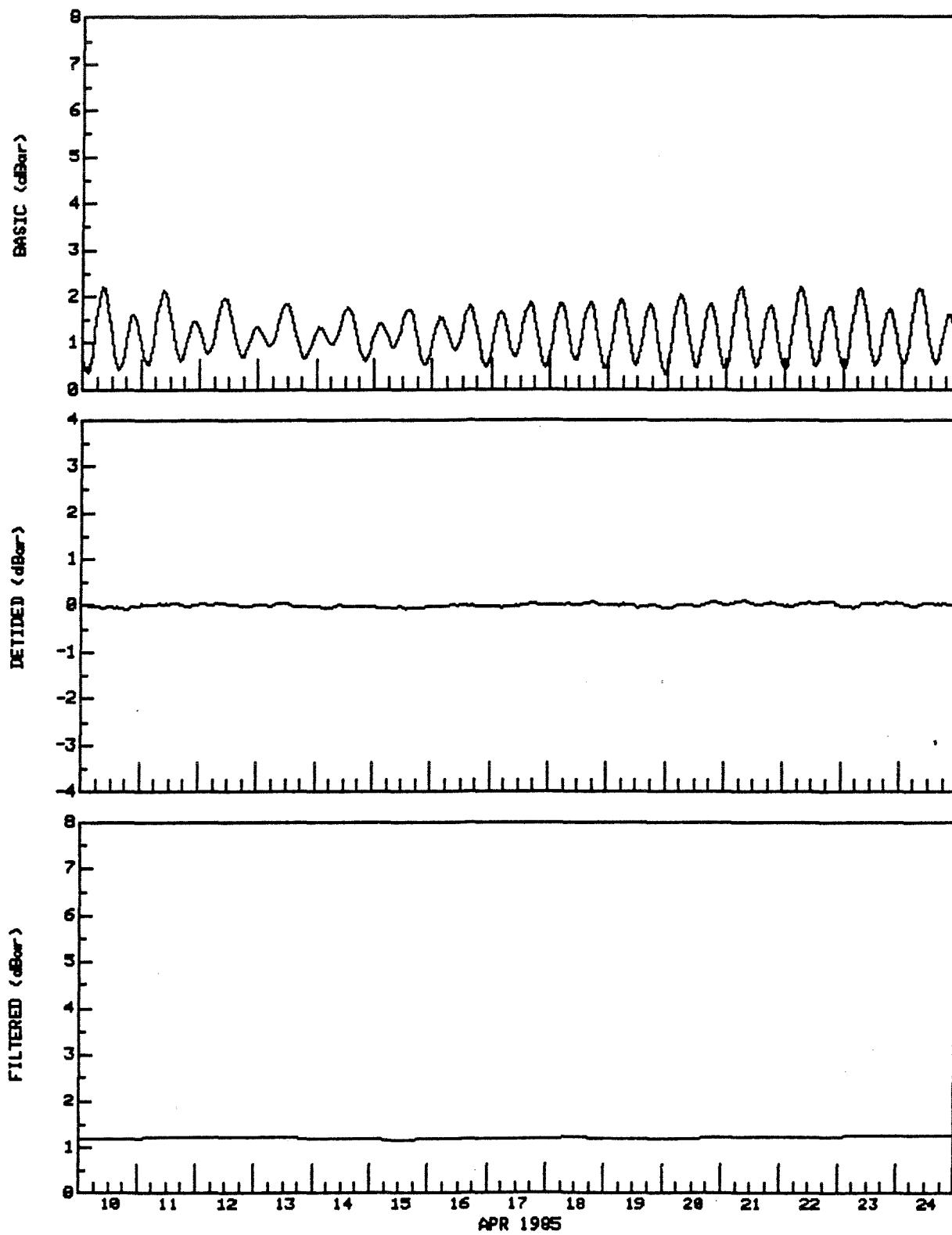
DEPTH(m) 39

TYPE DESPIKED

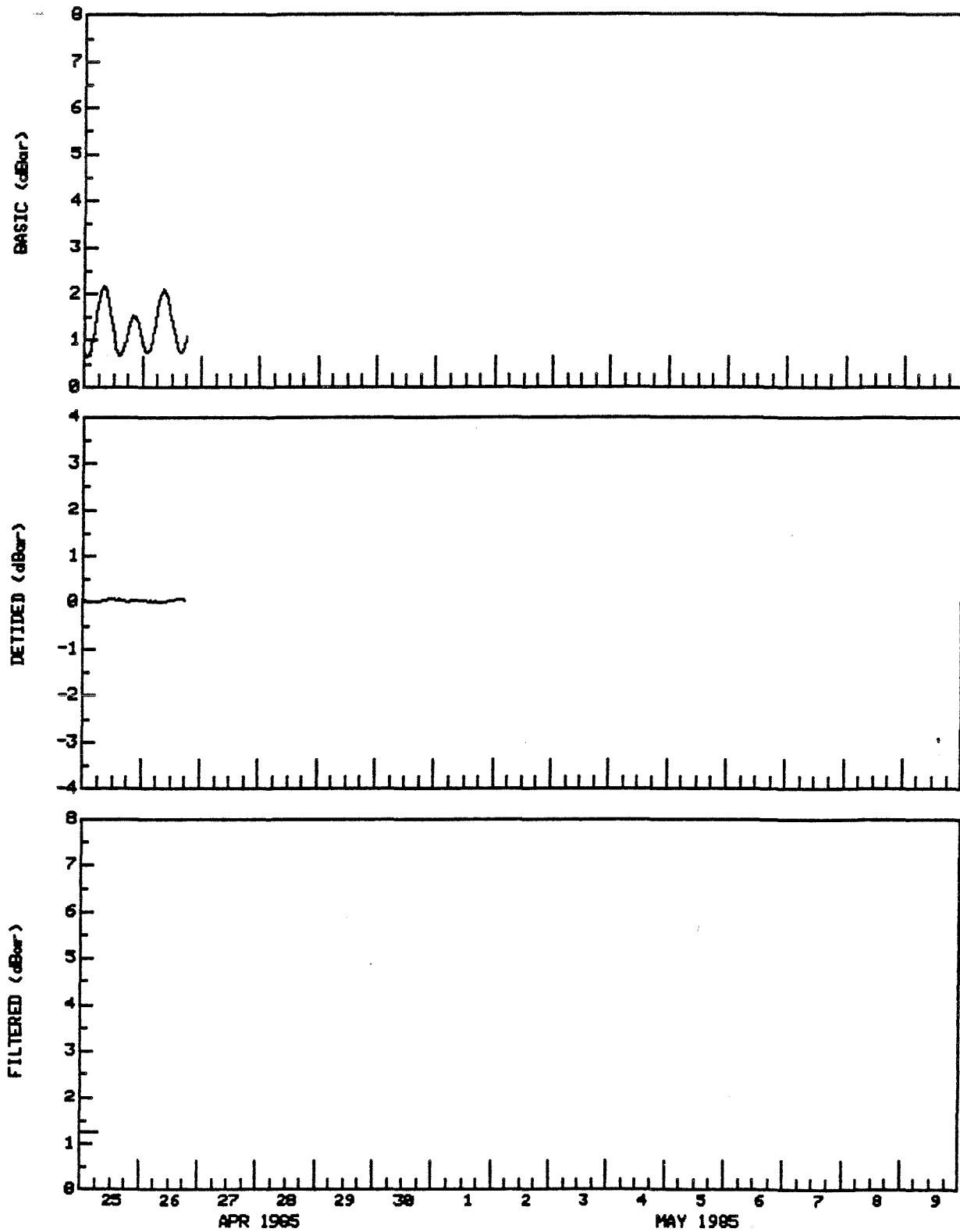
73 16' 18"N 80 46' 18"W

AANDERAA WLR5 #830

DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #18 CANADA POINT DEPTH(m) 39 TYPE DESPIKED
73 16' 18"N 80 46' 18"W AANDERAA WLR5 #830 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 21****TIDE GAUGE # 991**

Site # 21: Cape Ricketts

Position: 74°37'57"N 91°18'03"W

Tide Gauge #: Aanderaa WLR5 #991

Date/Time of Deployment: 1985/03/07 17:58

Date/Time of Recovery: 1985/04/06 23:10

Sampling Interval: 30 min

Number of Records on Tape: 2453

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	2.532	1.313	0.553
Detided Pressure	-0.131	0.168	0.002	0.045
Filtered Pressure	1.220	1.412	1.310	0.039

Data Quality: Timing 34 seconds slow

Fairly clean record, few spikes

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

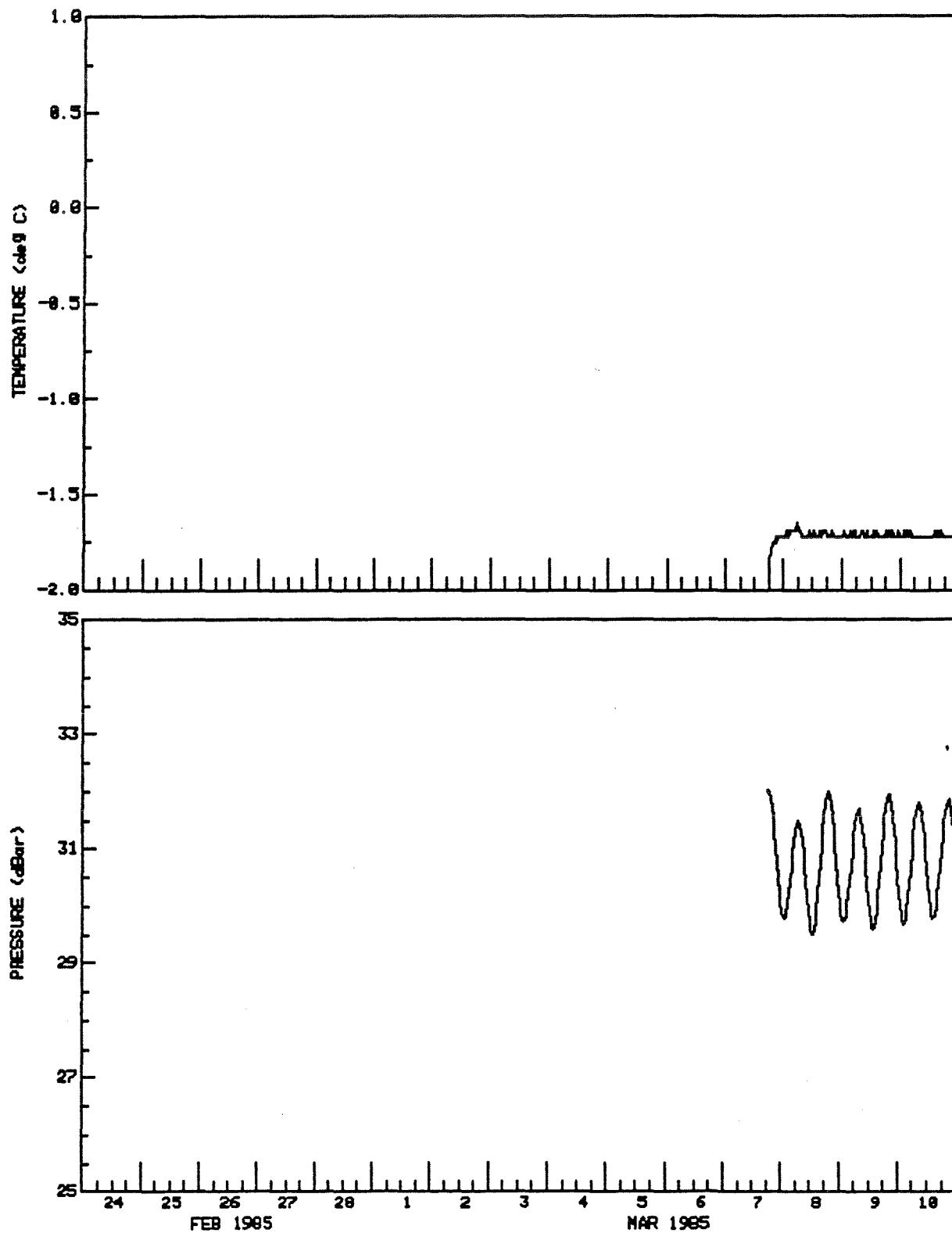
ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #21 CAPE RICKETTS LAT: 74 37 57.0 N
 DEPTH: 33 M LONG: 91 18 3.0 W
 START: 1800Z 7/ 3/85 END: 2300Z 26/ 4/85
 NO.OBS.= 1206 NO.PTS.ANAL.= 1206 MIDPT: 2000Z 1/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	---
1	Z0	0.00000000	1.3016	0.00
2	MM	0.00151215	0.0304	260.17
3	MSF	0.00282193	0.0296	178.95
4	ALP1	0.03439657	0.0032	157.21
5	2Q1	0.03570635	0.0036	319.94
6	Q1	0.03721850	0.0141	240.83
7	O1	0.03873065	0.1438	265.01
8	N01	0.04026860	0.0170	305.85
9	P1	0.04155259	0.0852	319.17 INF FR K1
10	K1	0.04178075	0.2581	319.17
11	J1	0.04329290	0.0099	23.72
12	001	0.04483084	0.0081	9.25
13	UPS1	0.04634299	0.0021	7.66
14	EPS2	0.07617730	0.0052	27.34
15	MU2	0.07768947	0.0403	90.01
16	N2	0.07899922	0.1429	139.93
17	M2	0.08051139	0.6392	163.52
18	L2	0.08202356	0.0156	175.48
19	S2	0.08333331	0.2443	215.69
20	K2	0.08356148	0.0660	215.69 INF FR S2
21	ETA2	0.08507365	0.0076	290.60
22	M03	0.11924207	0.0061	254.43
23	M3	0.12076712	0.0006	128.63
24	MK3	0.12229216	0.0062	25.13
25	SK3	0.12511408	0.0020	15.00
26	MN4	0.15951067	0.0016	161.25
27	M4	0.16102278	0.0033	184.09
28	SN4	0.16233259	0.0004	210.98
29	MS4	0.16384470	0.0032	246.17
30	S4	0.16666669	0.0004	227.16
31	2MK5	0.20280355	0.0016	97.19
32	2SK5	0.20844740	0.0015	192.77
33	2MN6	0.24002206	0.0007	30.99
34	M6	0.24153417	0.0004	15.56
35	2MS6	0.24435616	0.0017	58.42
36	2SM6	0.24717808	0.0015	125.37
37	3MK7	0.28331494	0.0011	207.58
38	M8	0.32204562	0.0009	269.03

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #21 CAPE RICKETTS DEPTH(m) 31 TYPE DESPIKED
74 37' 57"N 91 18' 3"W AANDERAA WLR5 #991 DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #21 CAPE RICKETTS

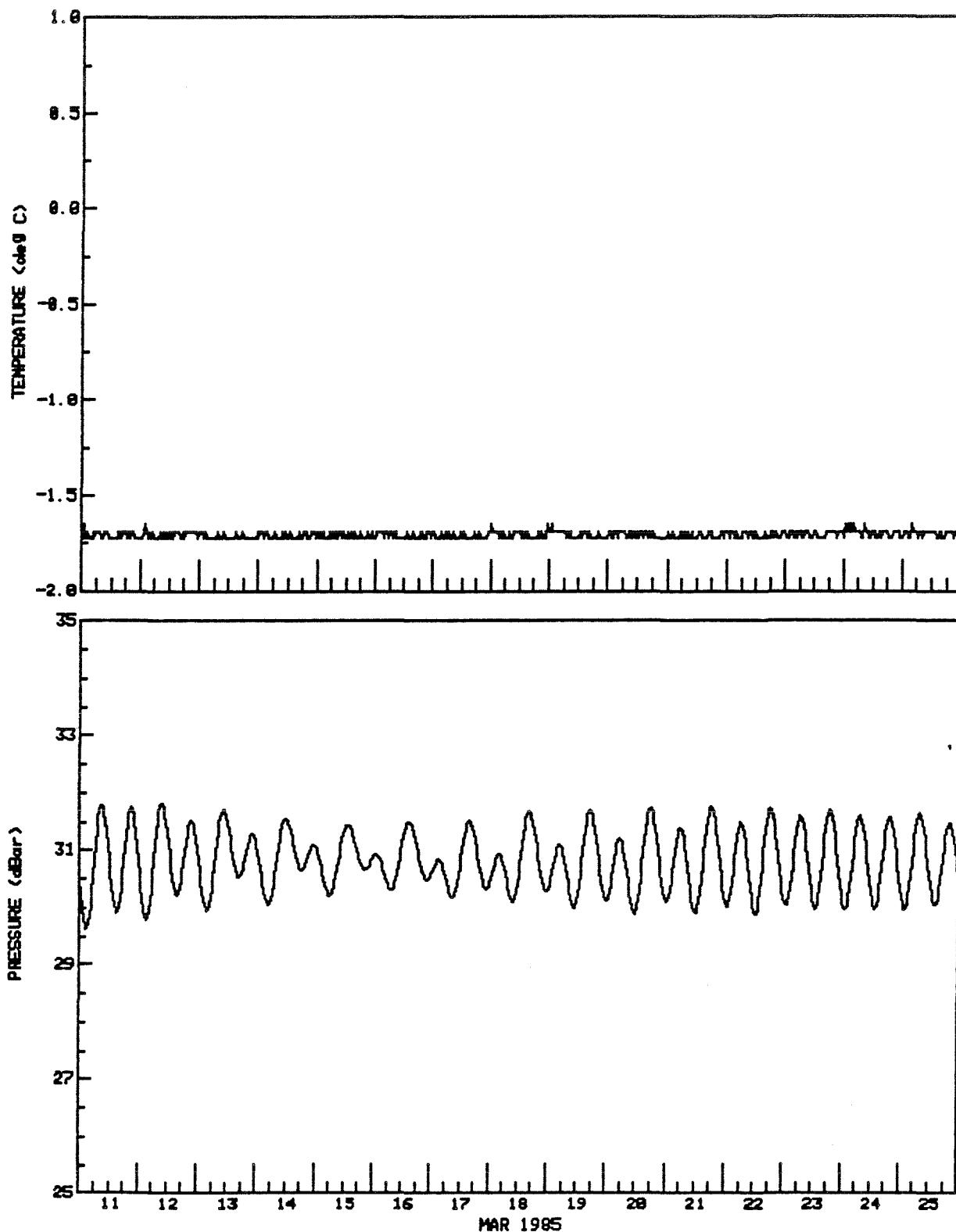
74 37' 57"N 91 18' 3"W

DEPTH(m) 31

AANDERAA WLR5 #991

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #21 CAPE RICKETTS

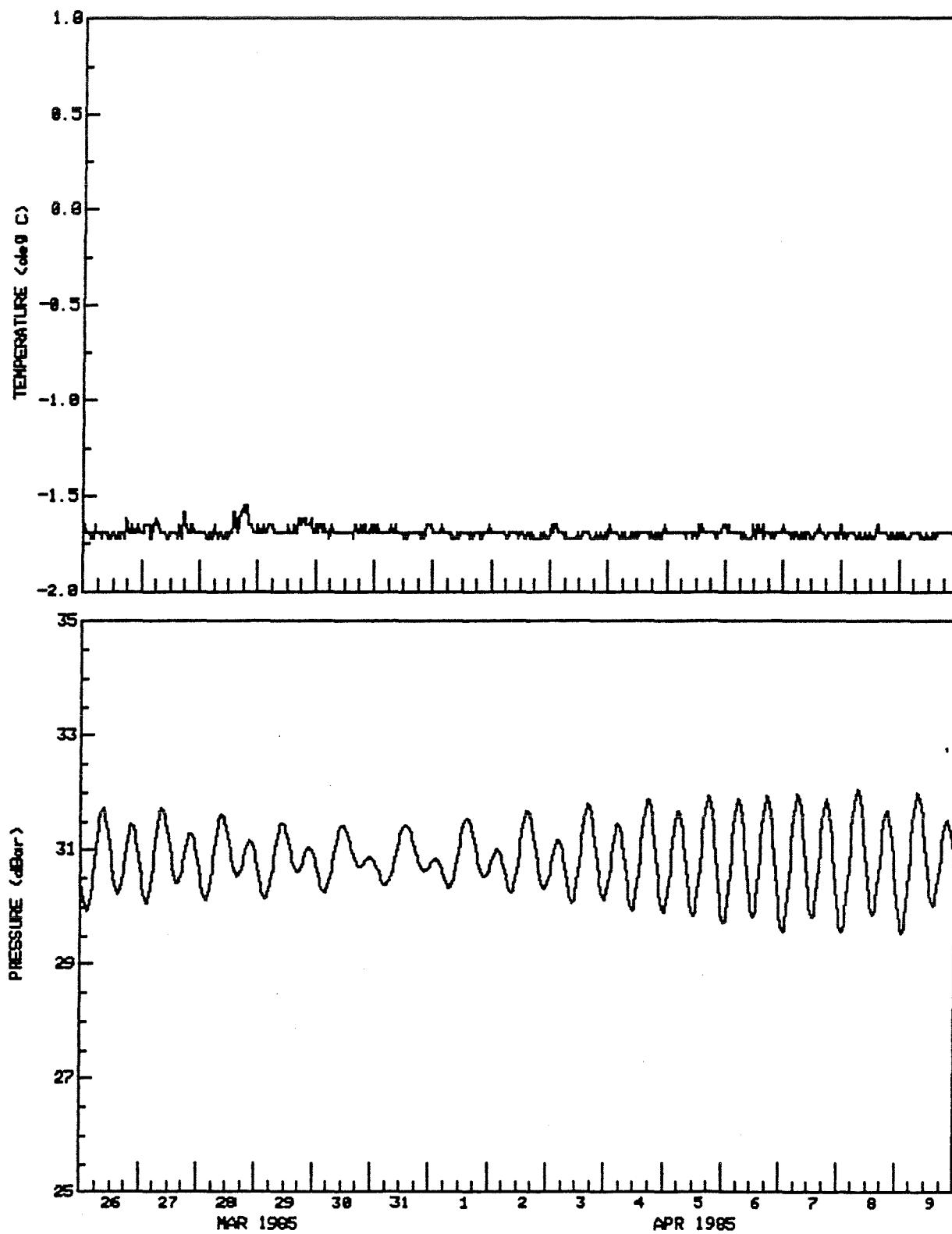
74 37' 57"N 91 18' 3"W

DEPTH(m) 31

AANDERAA WLR5 #991

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #21 CAPE RICKETTS

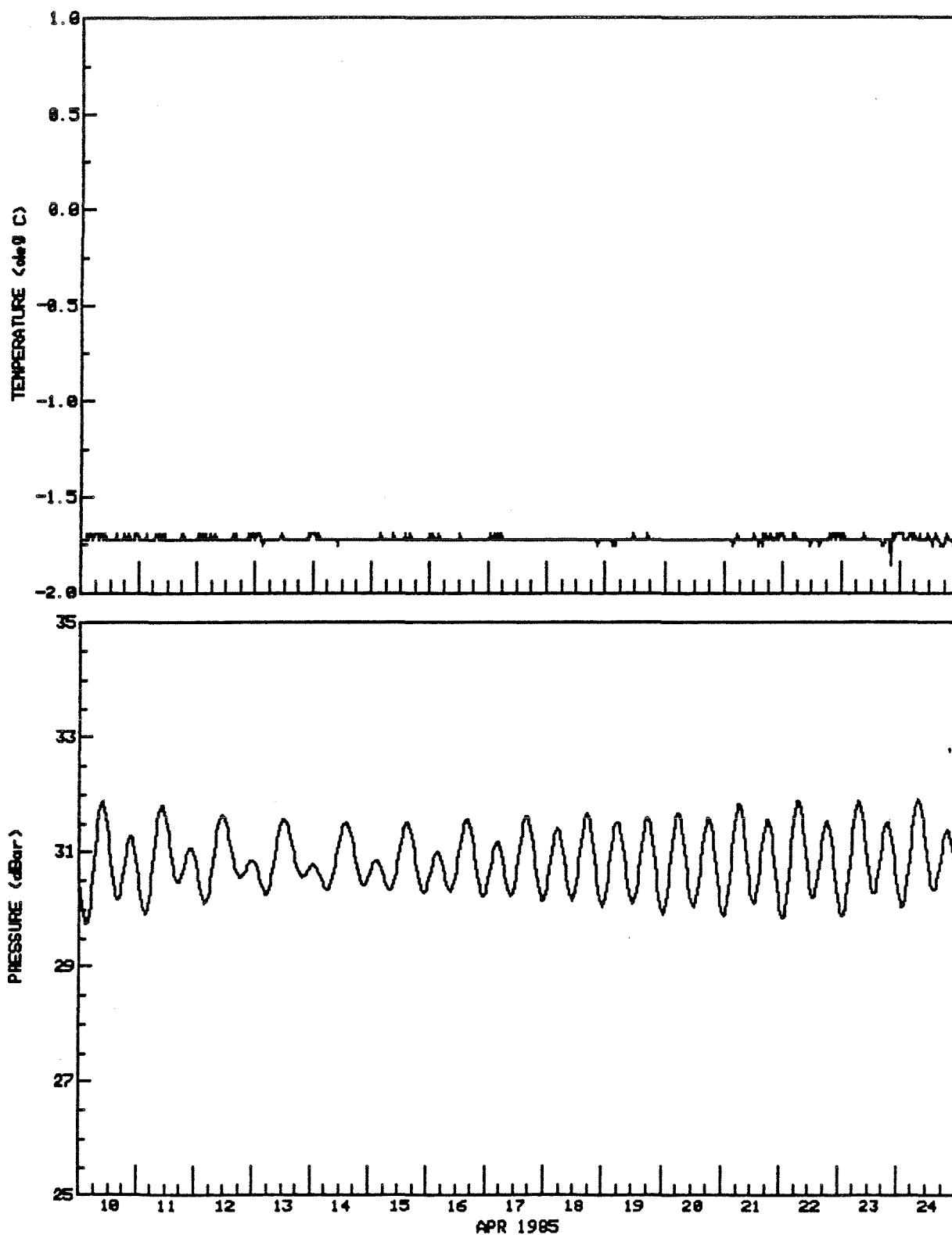
74 37' 57"N 91 18' 3"W

DEPTH(m) 31

AANDERAA WLRS #991

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #21 CAPE RICKETTS

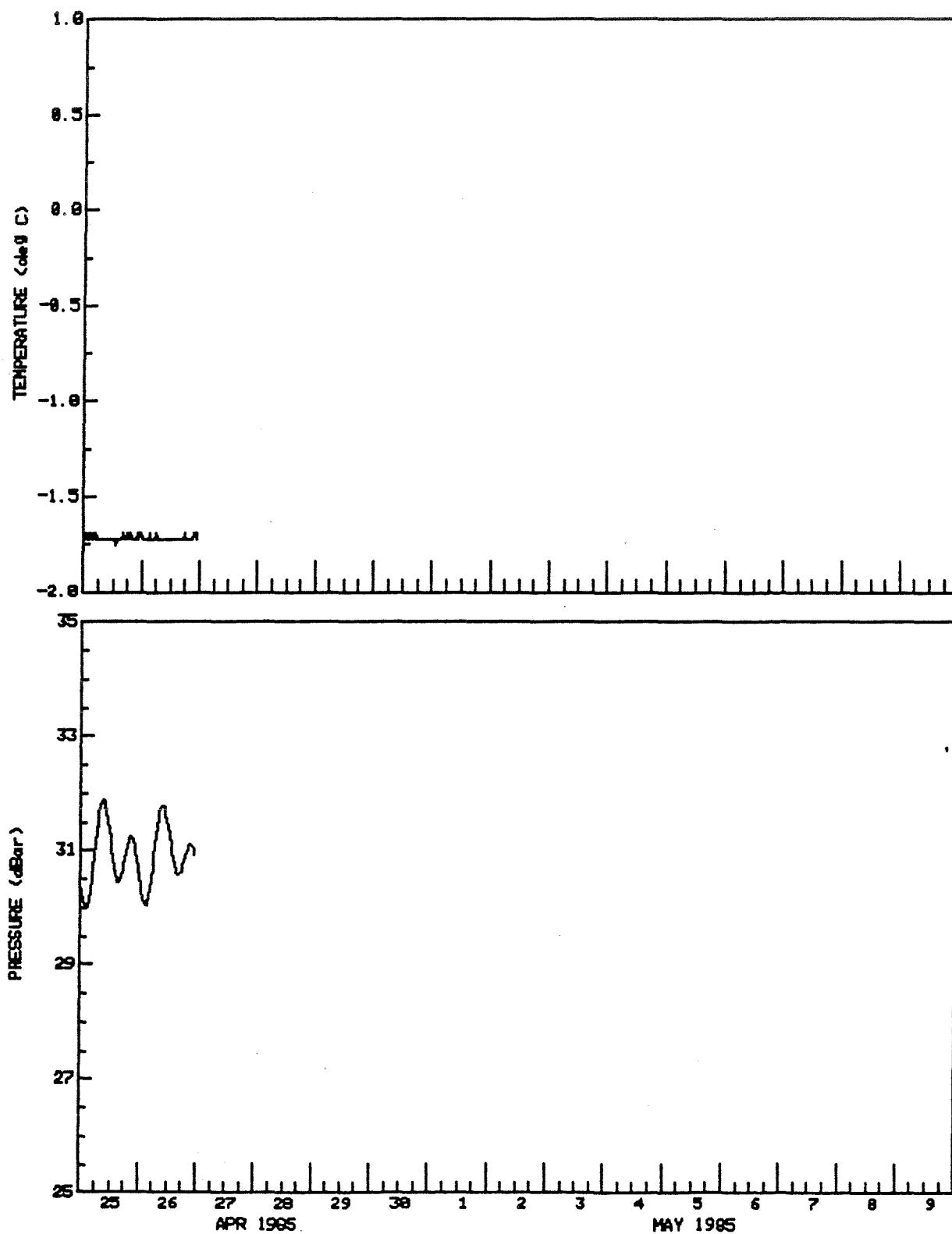
DEPTH(m) 31

TYPE DESPIKED

74 37' 57"N 91 18' 3"W

AANDERAA WLR5 #991

DT(min) 30



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #21 CAPE RICKETTS

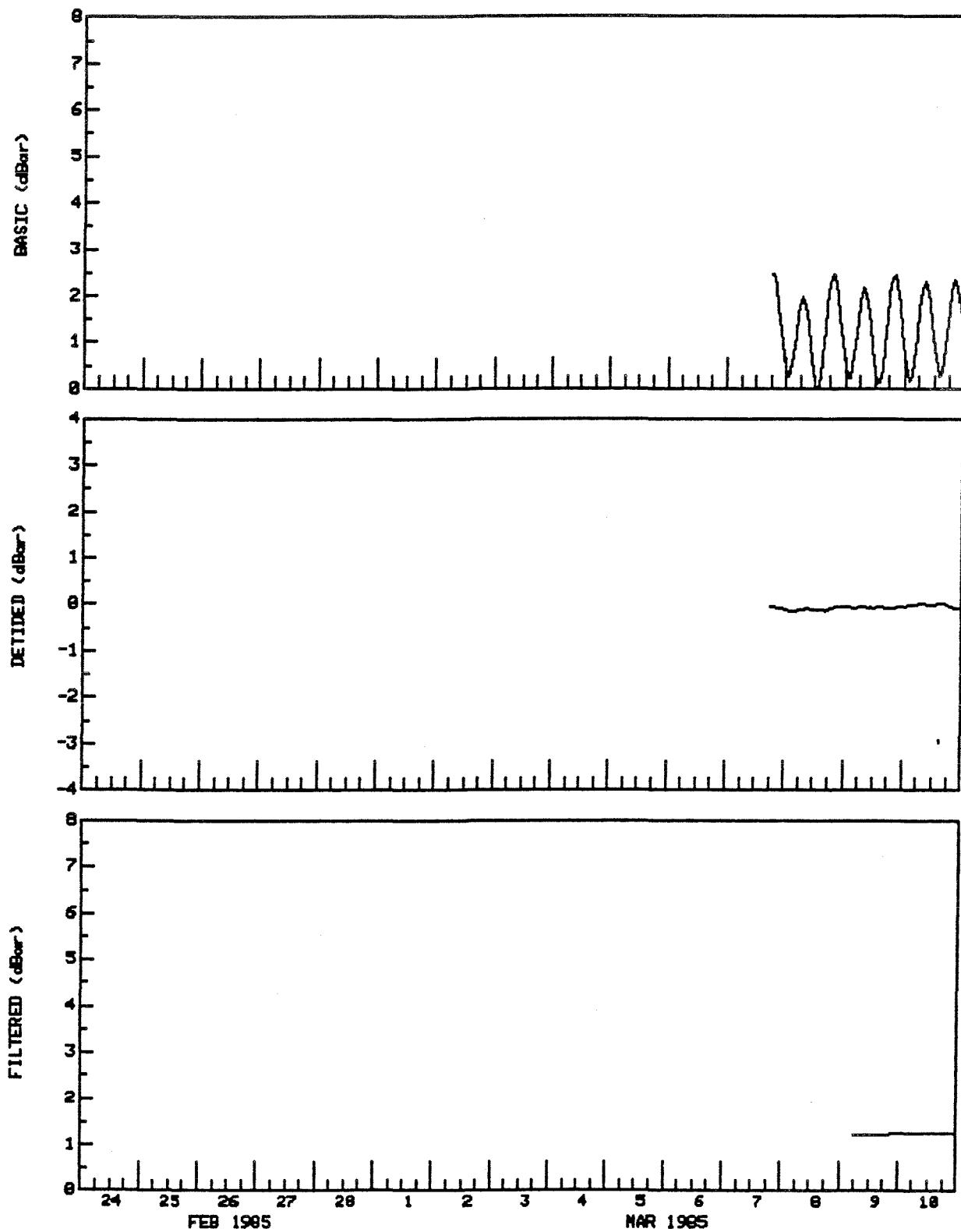
74 37' 57"N 91 18' 3"W

DEPTH(m) 31

AANDERAA WLR5 #991

TYPE DESPIKED

DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #21 CAPE RICKETTS

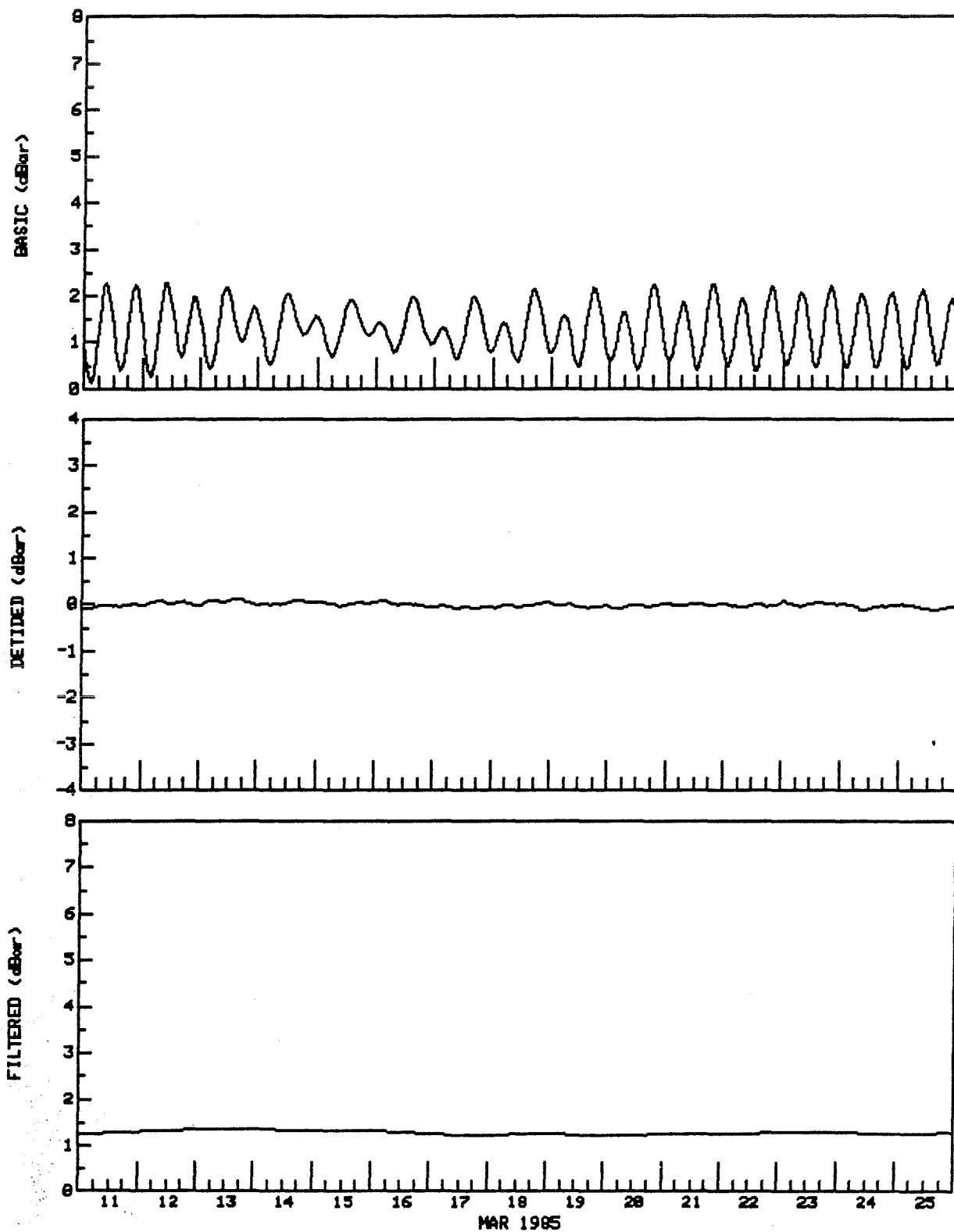
DEPTH(m) 31

TYPE DESPIKED

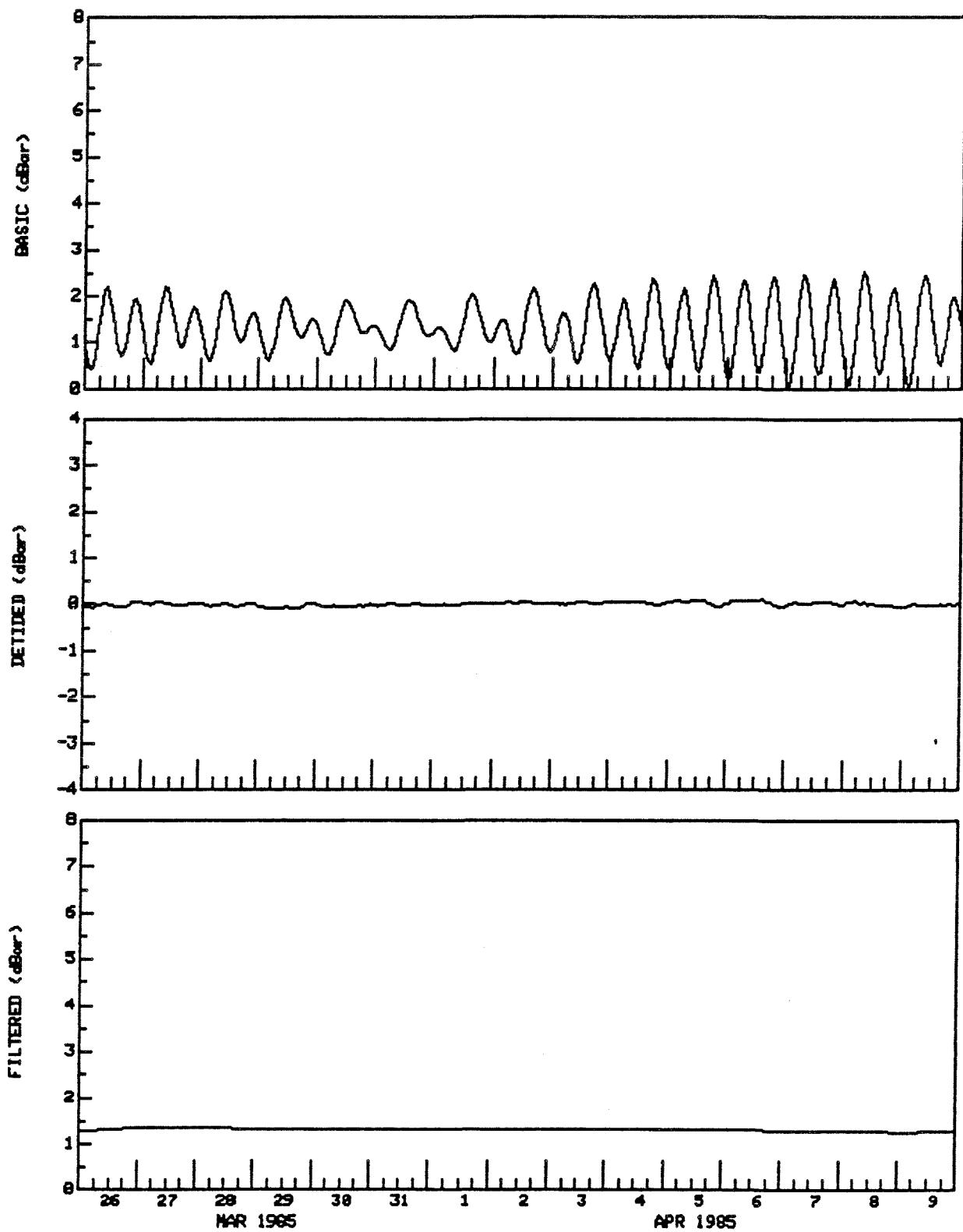
74 37' 57"N 91 18' 3"W

AANDERAA WLR5 #991

DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #21 CAPE RICKETTS DEPTH(m) 31 TYPE DESPIKED
74 37' 57"N 91 18' 3"W AANDERAA WLR5 #991 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #21 CAPE RICKETTS

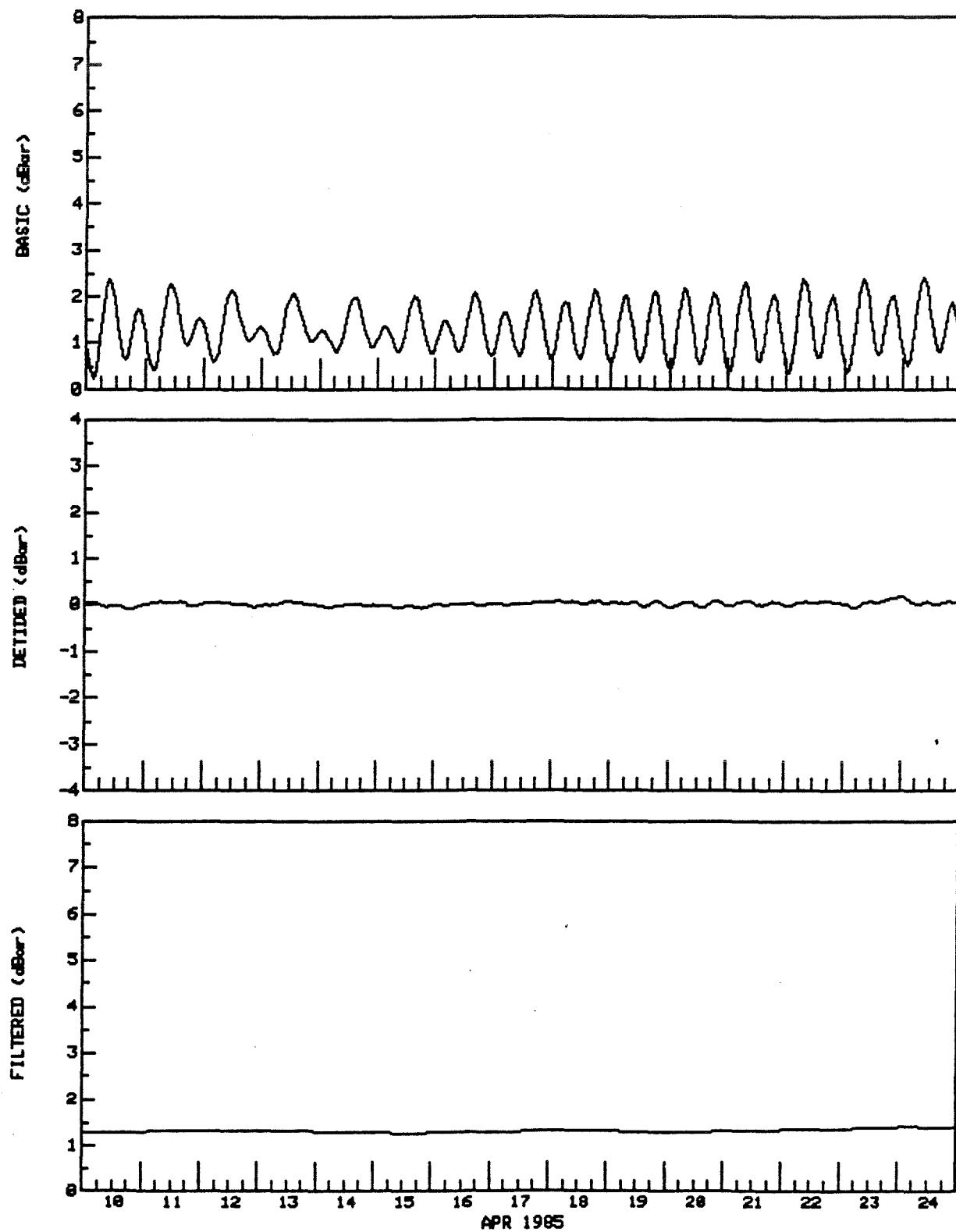
74 37' 57"N 91 18' 3"W

DEPTH(m) 31

AANDERAA WLR5 #991

TYPE DESPIKED

DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #21 CAPE RICKETTS

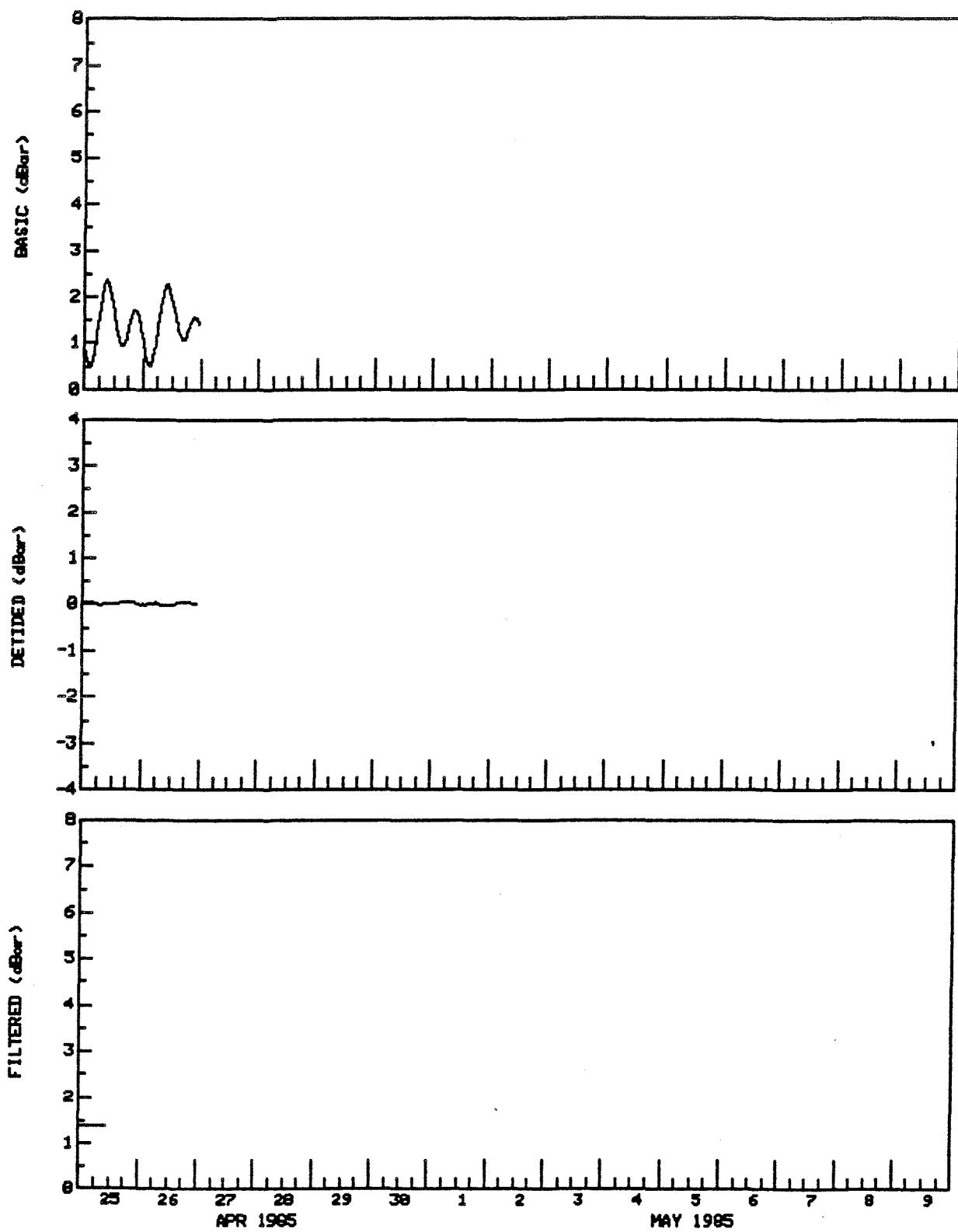
DEPTH(m) 31

TYPE DESPIKED

74 37' 57"N 91 18' 3"W

AANDERAA WLR5 #991

DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 23****TIDE GAUGE # 336**

Site # 23: Burnett Inlet

Position: 74°29'24"N 86°8'48"W

Tide Gauge #: Aanderaa WLR5 #336

Date/Time of Deployment: 1985/03/06 18:56

Date/Time of Recovery: 1985/04/26 21:18

Sampling Interval: 30 min

Number of Records on Tape: 2646

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	3.145	1.698	0.648
Detided Pressure	-0.552	0.832	-0.001	0.311
Filtered Pressure	1.190	2.365	1.698	0.319

Data Quality: Timing 20 seconds slow

Fairly clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #23 BURNETT INLET LAT: 74 29 24.0 N
 DEPTH: 34 M LONG: 86 8 48.0 W
 START: 1900Z 6/ 3/85 END: 2100Z 26/ 4/85
 NO.OBS.= 1227 NO.PTS.ANAL.= 1227 MIDPT: 800Z 1/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	---
1	Z0	0.00000000	1.6762	0.00
2	MM	0.00151215	0.1464	187.89
3	MSF	0.00282193	0.0529	78.81
4	ALP1	0.03439657	0.0056	192.82
5	ZQ1	0.03570635	0.0022	25.47
6	Q1	0.03721850	0.0132	237.10
7	O1	0.03873065	0.1210	243.99
8	NO1	0.04026860	0.0131	282.43
9	P1	0.04155259	0.0796	292.37 INF FR K1
10	K1	0.04178075	0.2412	292.37
11	J1	0.04329290	0.0112	324.21
12	OO1	0.04483084	0.0047	284.94
13	UPS1	0.04634299	0.0030	144.00
14	EPS2	0.07617730	0.0059	289.47
15	MU2	0.07768947	0.0400	65.39
16	N2	0.07899922	0.1602	124.50
17	M2	0.08051139	0.6573	146.51
18	L2	0.08202356	0.0089	119.06
19	S2	0.08333331	0.2442	196.70
20	K2	0.08356148	0.0659	196.70 INF FR S2
21	ETA2	0.08507365	0.0120	255.27
22	M03	0.11924207	0.0103	221.37
23	M3	0.12076712	0.0007	126.90
24	MK3	0.12229216	0.0029	237.83
25	SK3	0.12511408	0.0098	300.71
26	MN4	0.15951067	0.0038	92.55
27	M4	0.16102278	0.0150	132.17
28	SN4	0.16233259	0.0014	8.59
29	MS4	0.16384470	0.0147	174.95
30	S4	0.16666669	0.0046	163.13
31	2MK5	0.20280355	0.0023	343.35
32	2SK5	0.20844740	0.0021	140.51
33	2MN6	0.24002206	0.0012	281.36
34	M6	0.24153417	0.0050	240.96
35	2MS6	0.24435616	0.0043	299.81
36	2SM6	0.24717808	0.0018	306.20
37	3MK7	0.28331494	0.0015	94.59
38	M8	0.32204562	0.0012	36.77

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #23 BURNETT INLET

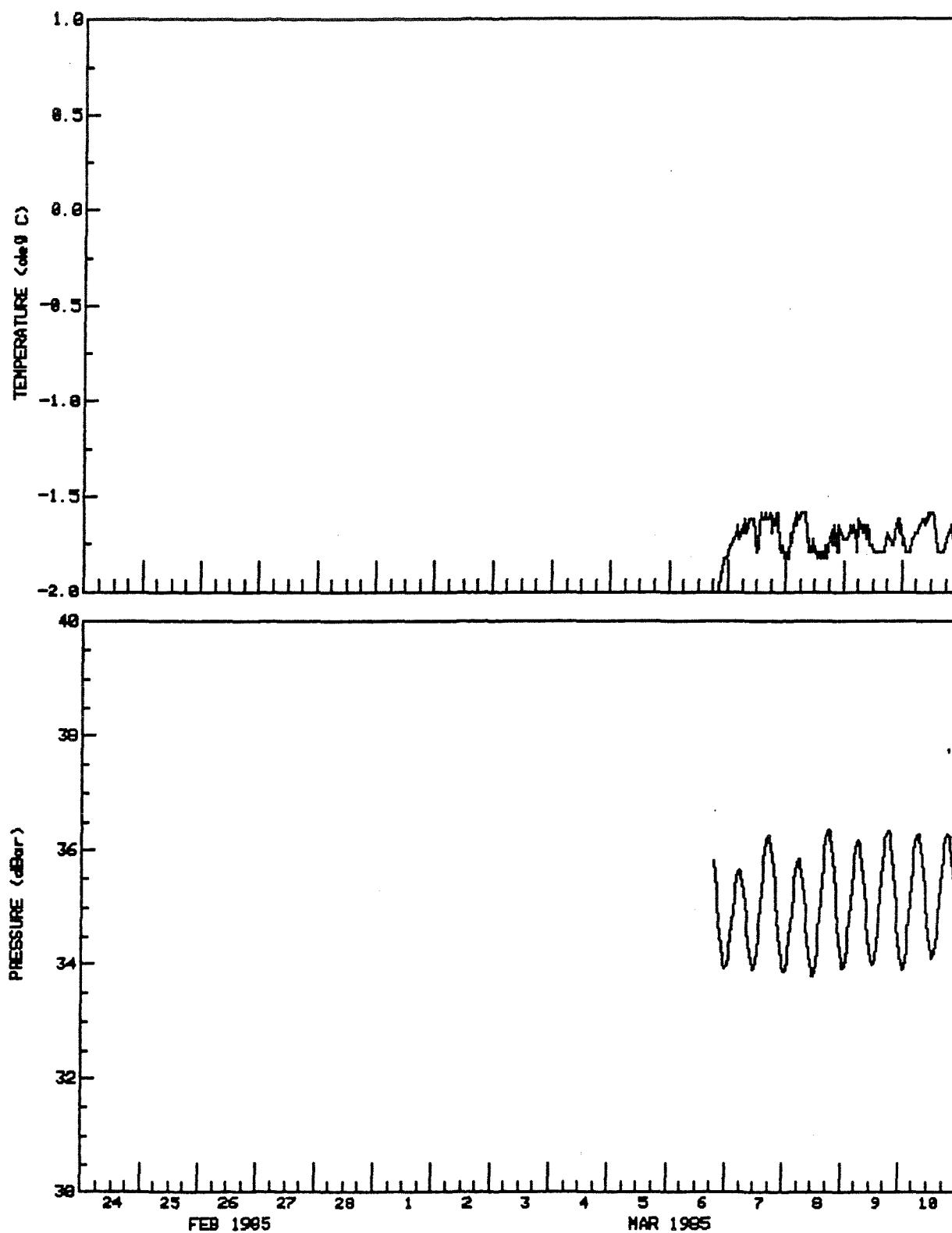
74 29' 24"N 86 8' 48"W

DEPTH(m) 35

AANDERAA WLR5 #336

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #23 BURNETT INLET

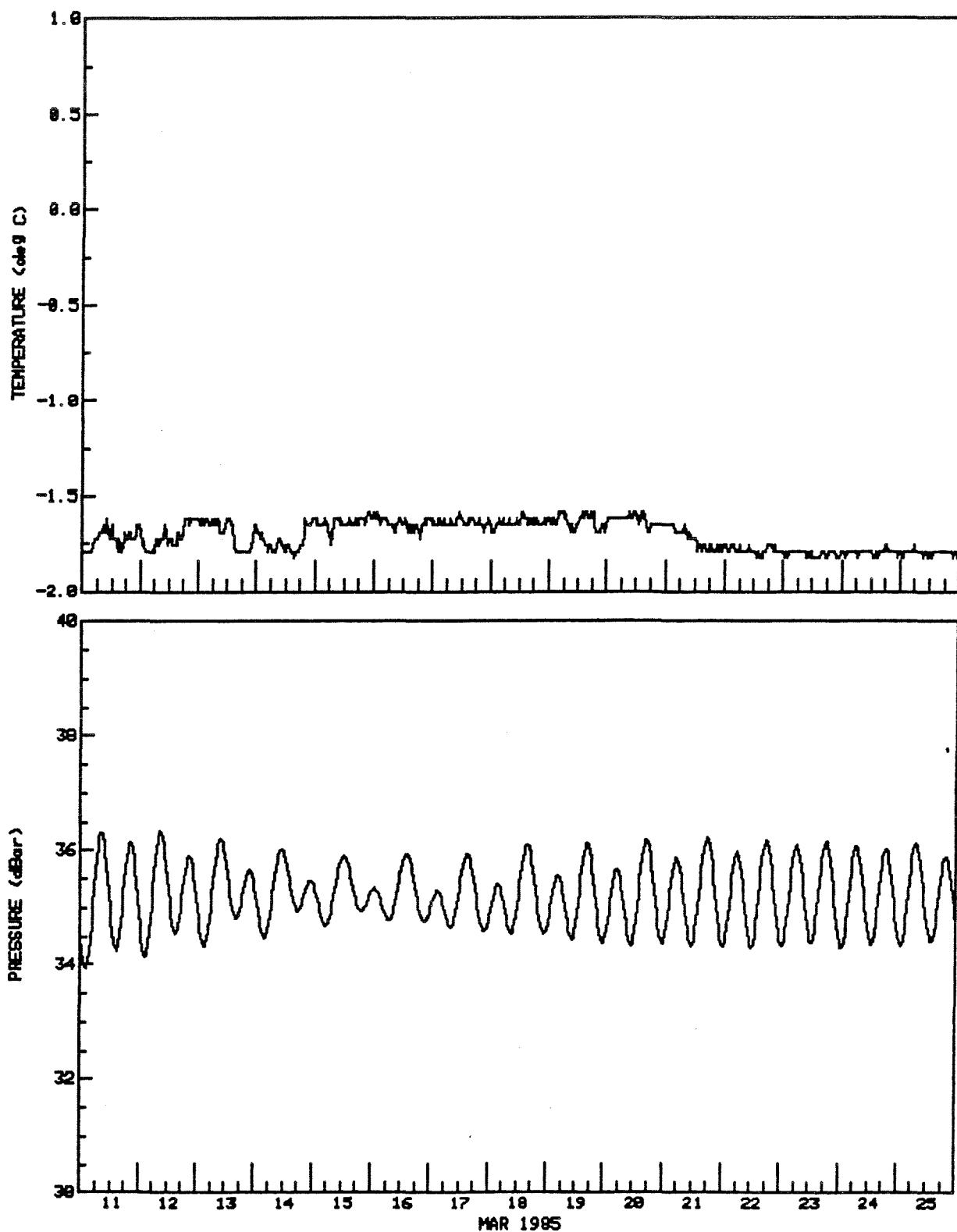
DEPTH(m) 35

TYPE DESPIKED

74 29' 24"N 86 8' 48"W

AANDERAA WLR5 #336

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #23 BURNETT INLET

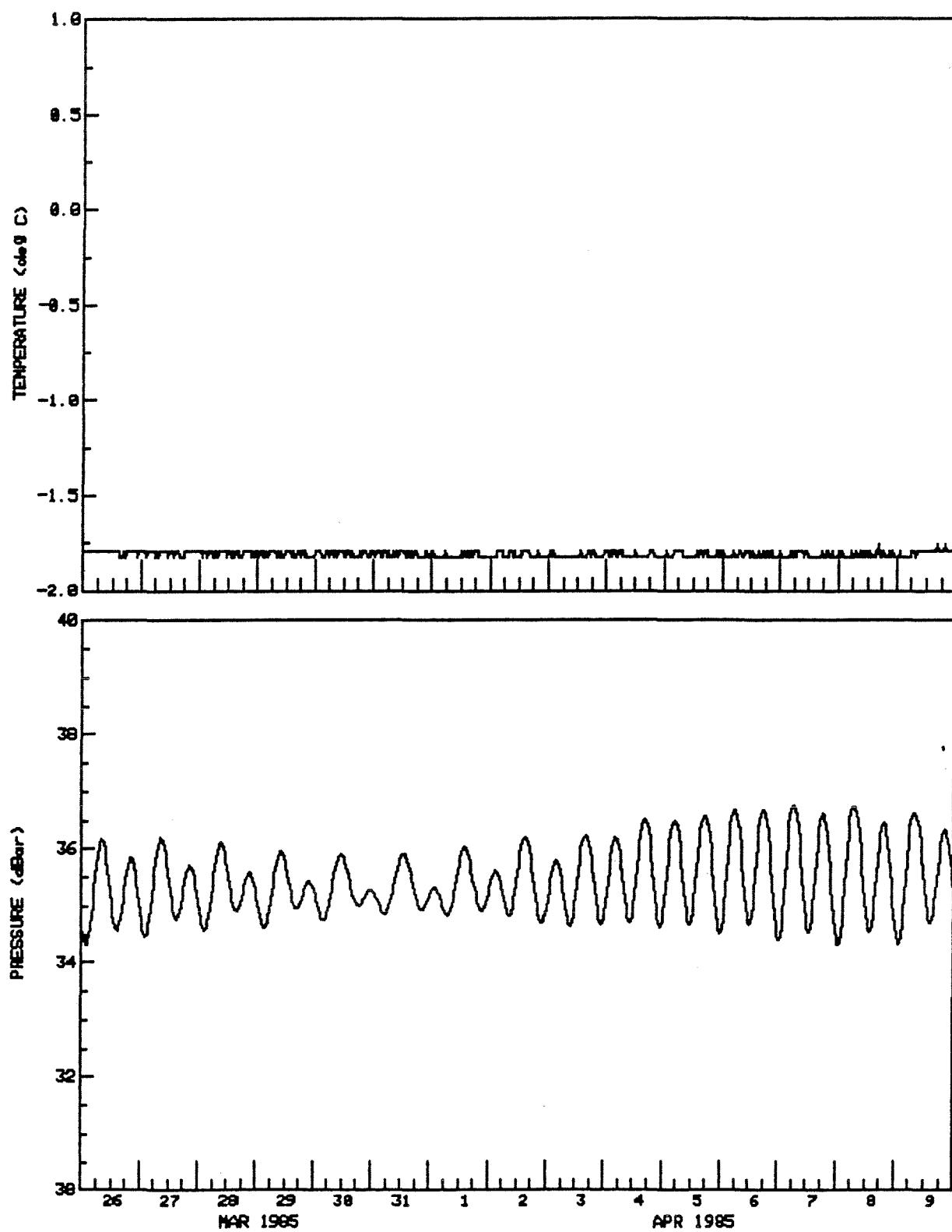
74 29' 24"N 86 8' 48"W

DEPTH(m) 35

AANDERAA WLR5 #336

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #23 BURNETT INLET

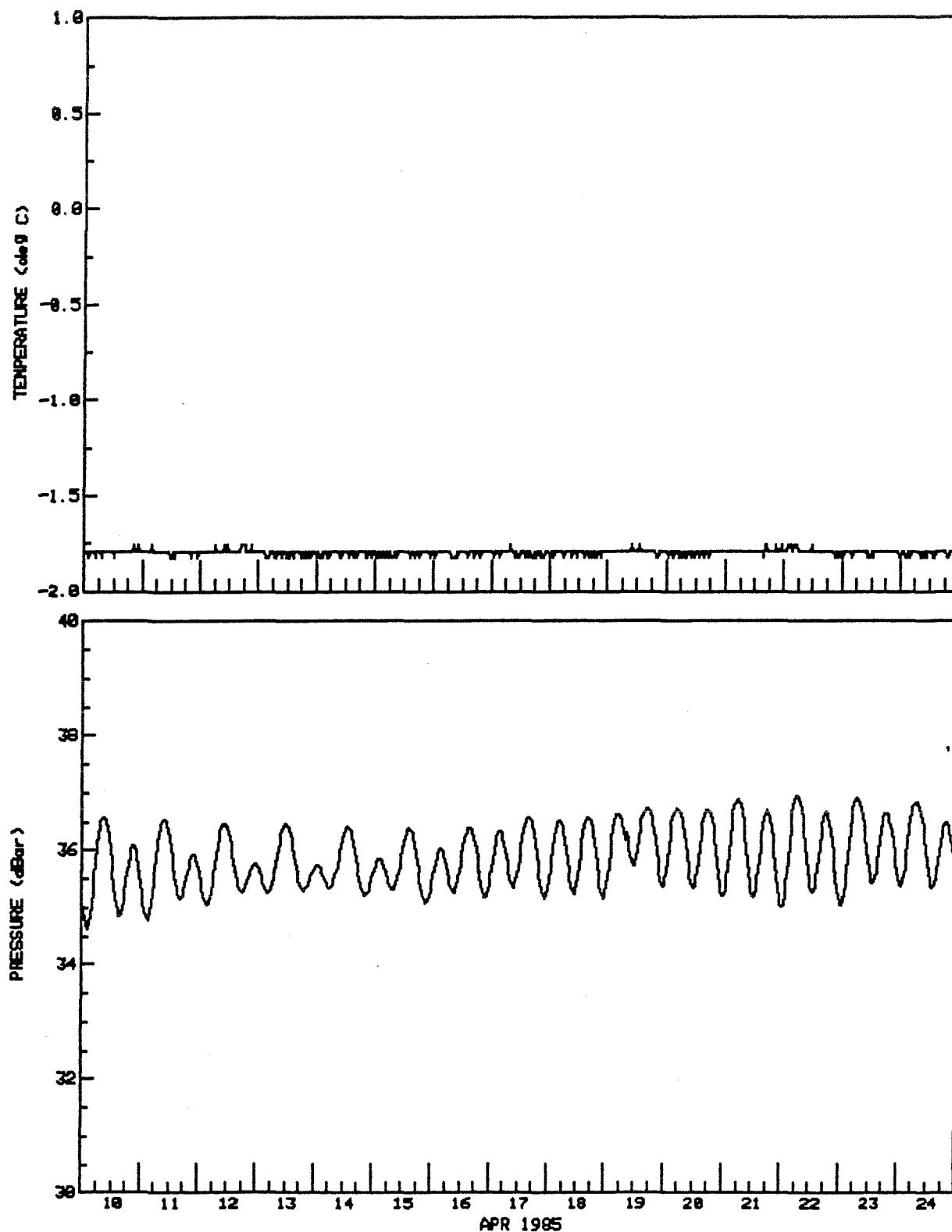
DEPTH(m) 35

TYPE DESPIKED

74 29' 24"N 86 8' 48"W

AANDERAA WLR5 #336

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #23 BURNETT INLET

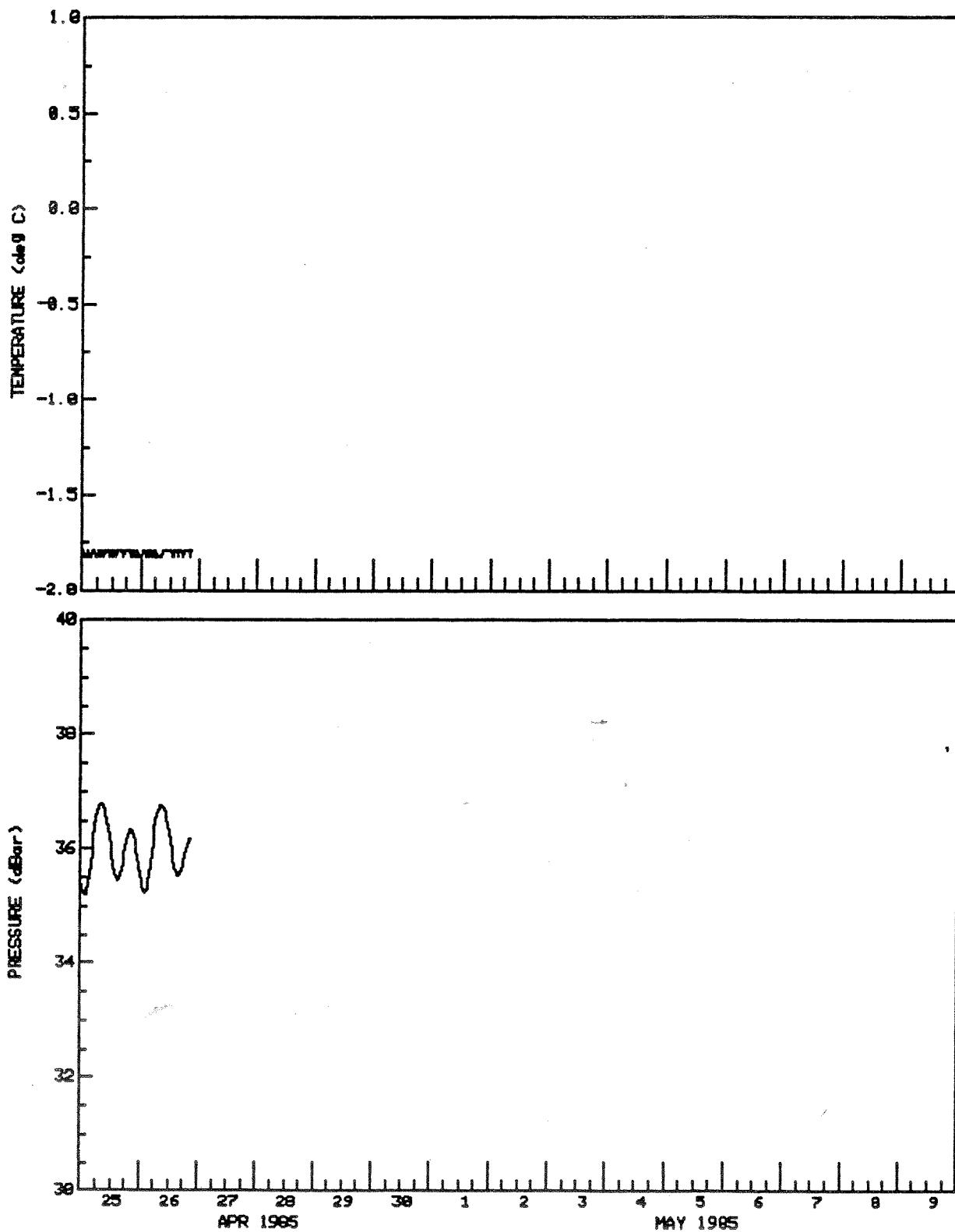
DEPTH(m) 35

TYPE DESPIKED

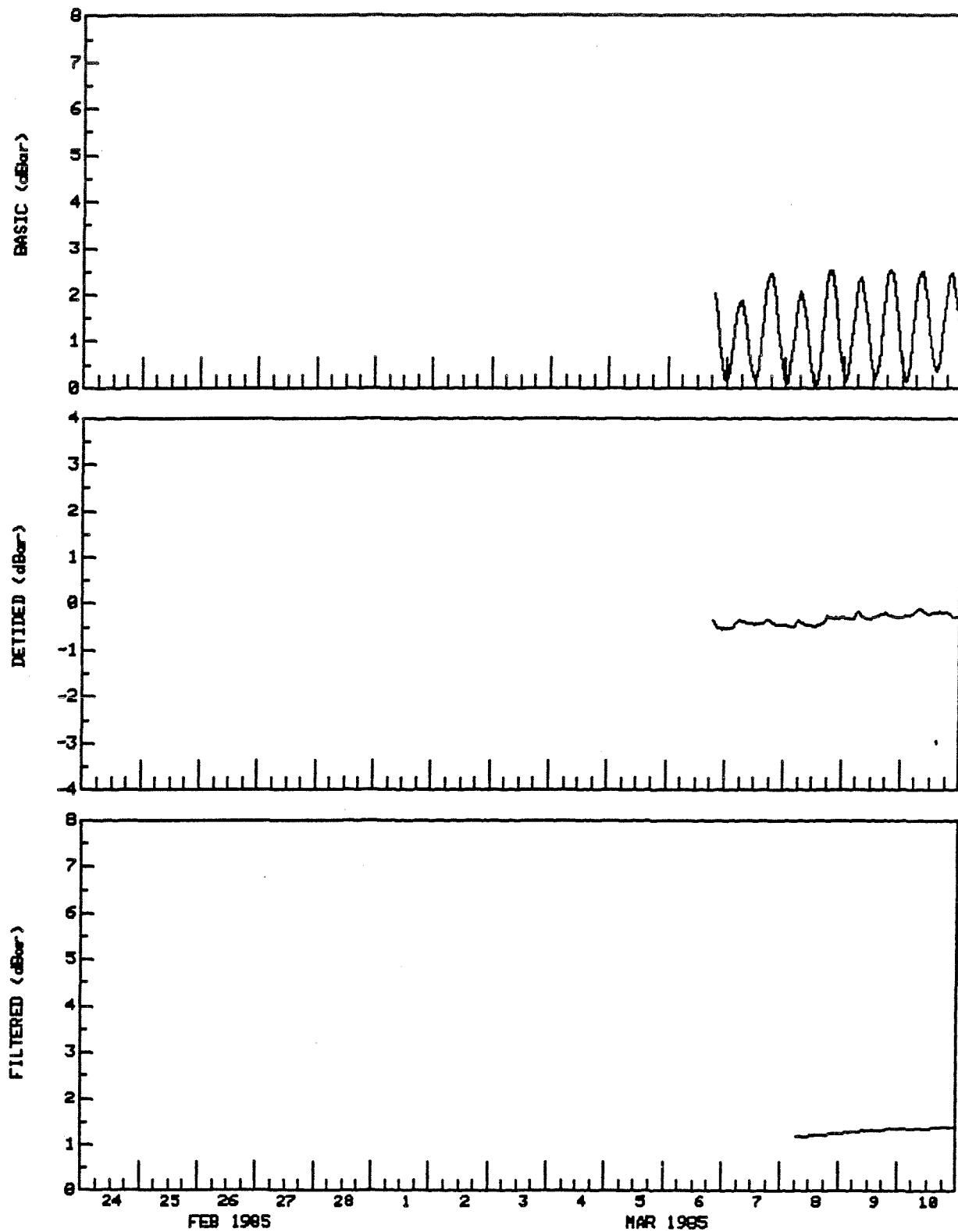
74 29' 24"N 86 8' 48"W

AANDERAA WLR5 #336

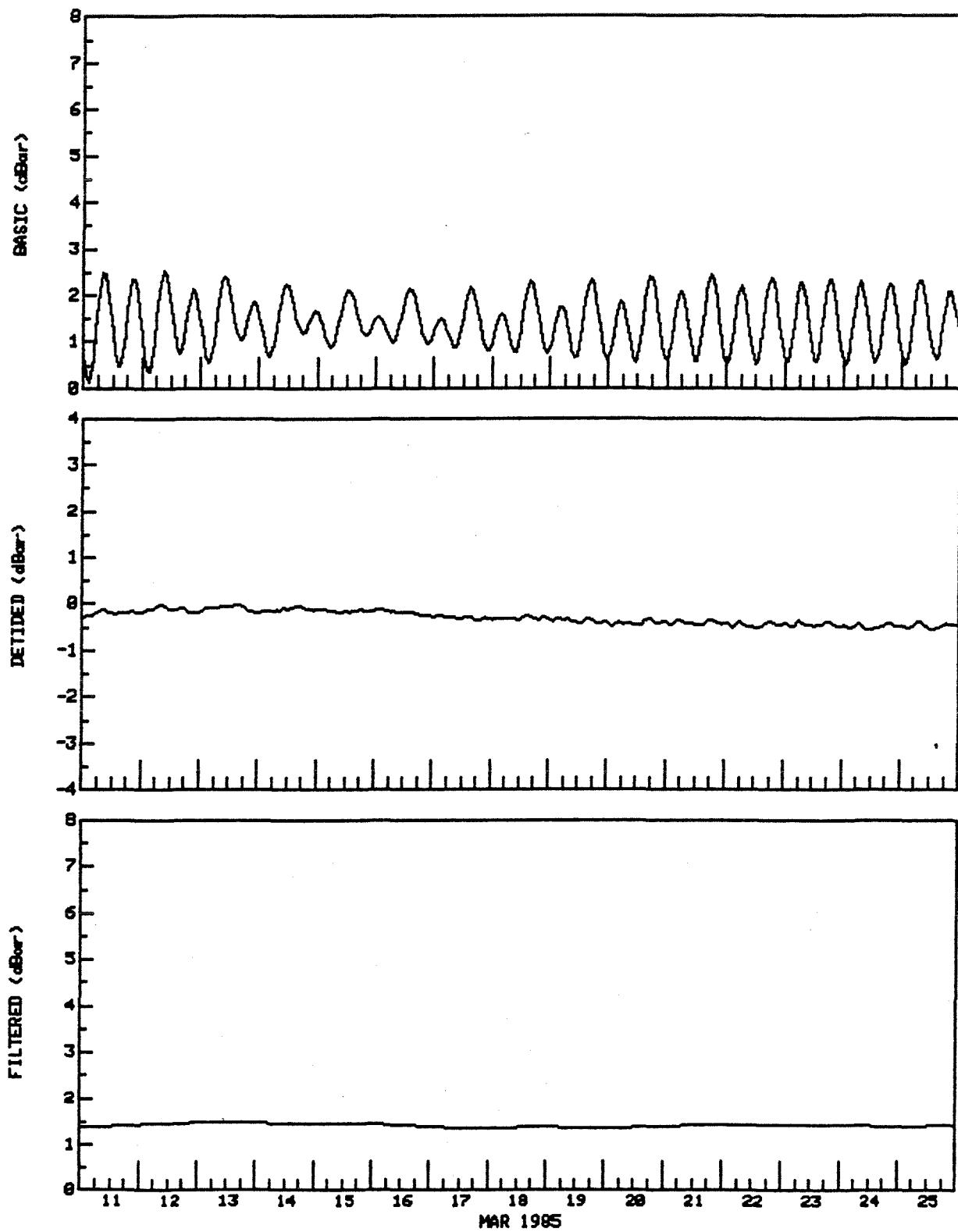
DT(min) 30



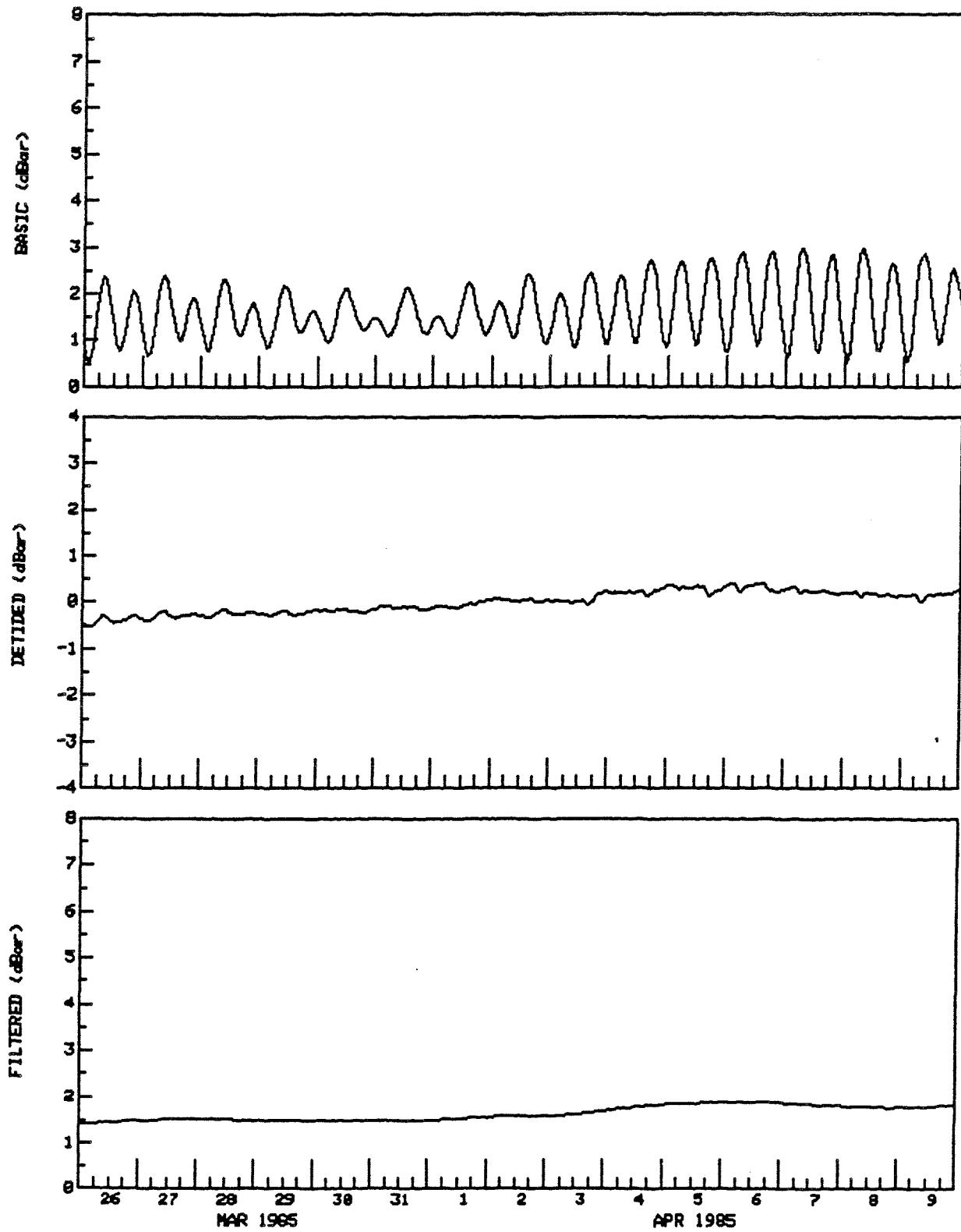
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #23 BURNETT INLET DEPTH(m) 35 TYPE DESPIKED
74 29' 24"N 86 8' 48"W AANDERAA WLR5 #336 DT(min) 60



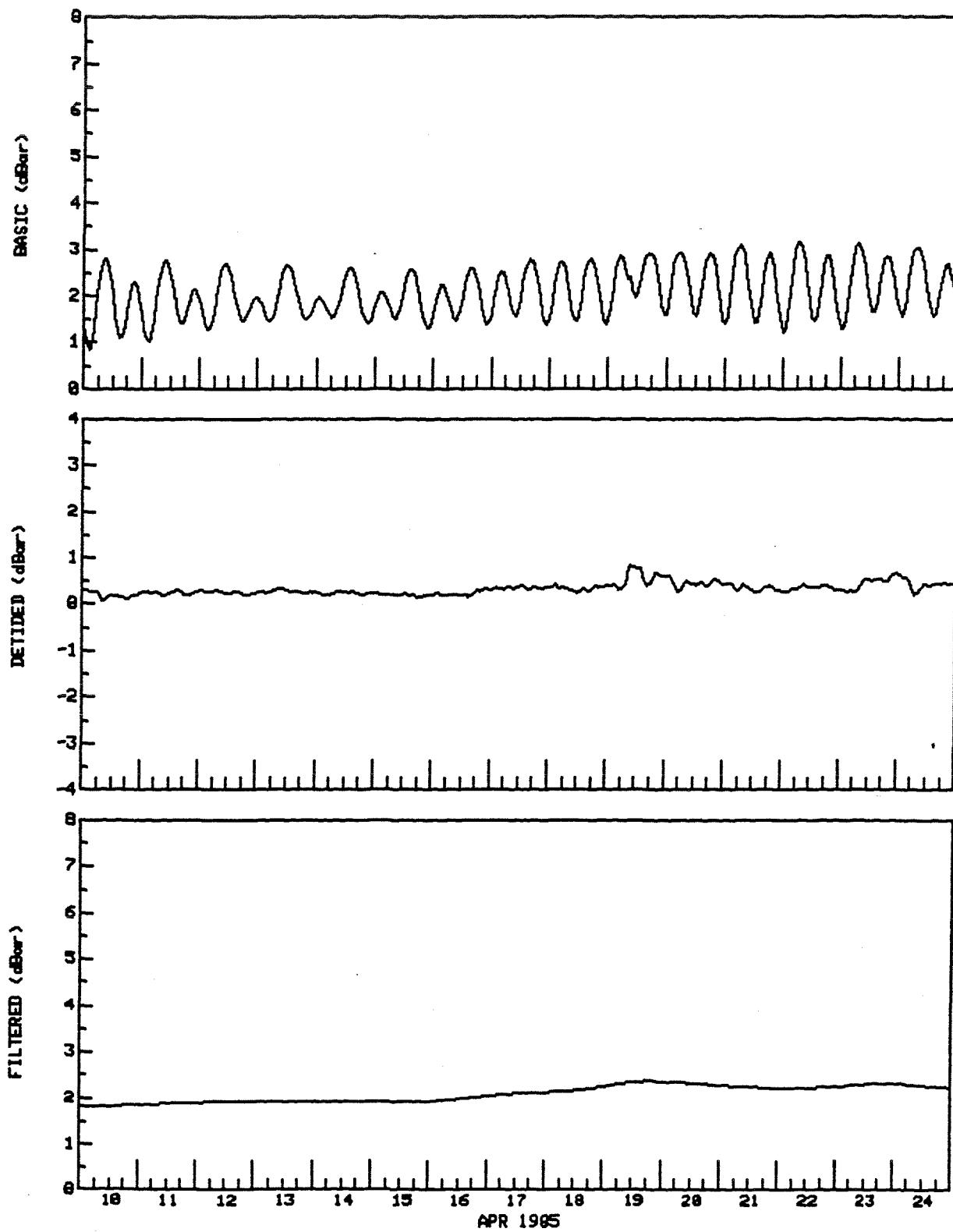
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #23 BURNETT INLET DEPTH(m) 35 TYPE DESPIKED
74 29' 24"N 86 8' 48"W AANDERAA WLR5 #336 DT(min) 60



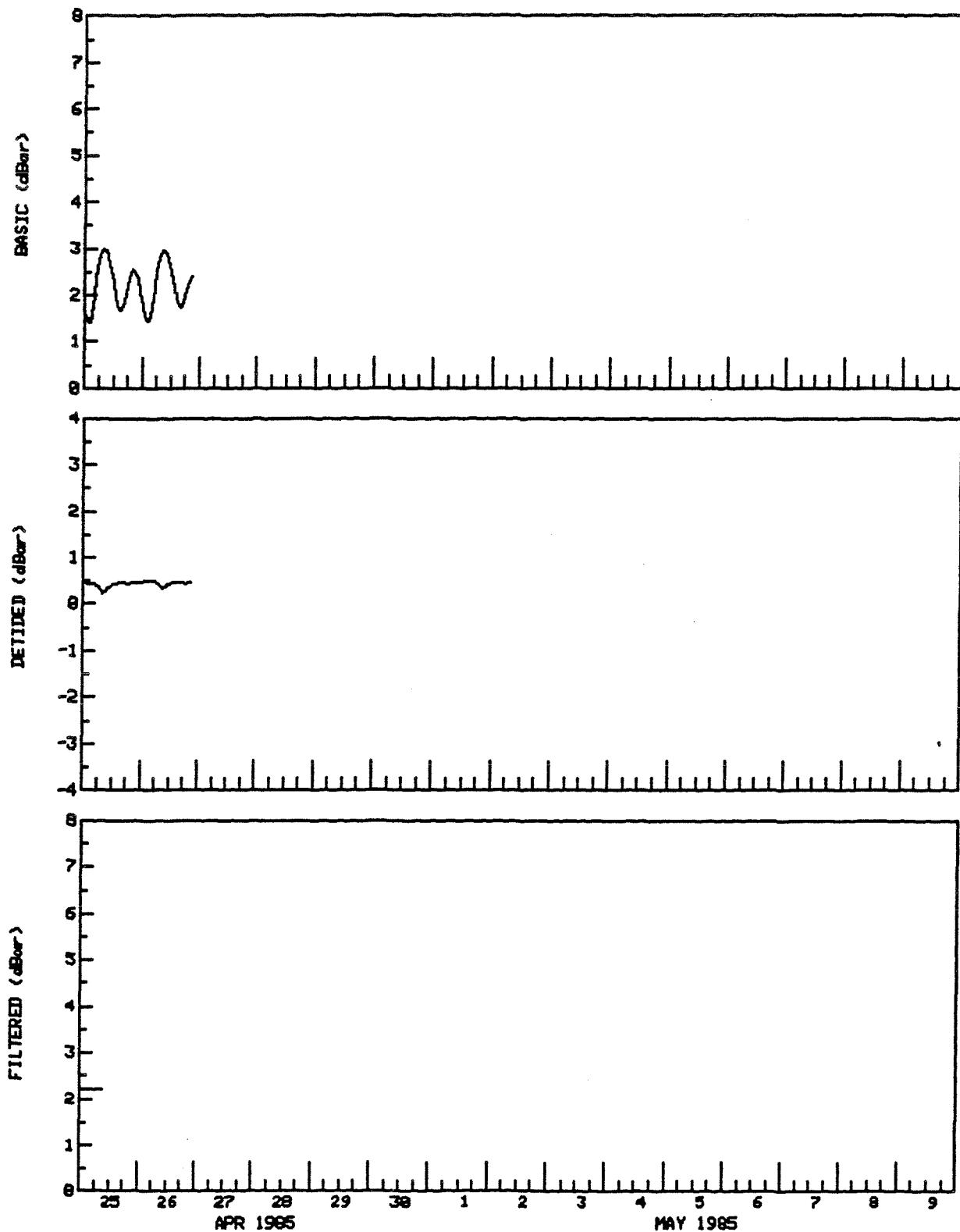
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #23 BURNETT INLET DEPTH(m) 35 TYPE DESPIKED
74 29' 24"N 86 8' 48"W AANDERAA WLR5 #336 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #23 BURNETT INLET DEPTH(m) 35 TYPE DESPIKED
74 29' 24"N 86 8' 48"W AANDERAA WLR5 #336 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #23 BURNETT INLET DEPTH(m) 35 TYPE DESPIKED
74 29' 24"N 86 8' 48"W AANDERAA WLR5 #336 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 24****TIDE GAUGE # 183**

Site # 24: Dundas Harbour

Position: 74°31'21"N 82°28'30"W

Tide Gauge #: Aanderaa WLR5 #183

Date/Time of Deployment: 1985/03/06 17:34

Date/Time of Recovery: 1985/04/26 20:00

Sampling Interval: 30 min

Number of Records on Tape: 2549

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	2.684	1.350	0.585
Detided Pressure	-0.123	0.136	-0.001	0.041
Filtered Pressure	1.268	1.444	1.350	0.035

Data Quality: Timing 13 seconds fast

Fairly clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #24 DUNDAS HARBOUR LAT: 74 31 21.0 N
 DEPTH: 37 M LONG: 82 28 30.0 W
 START: 1800Z 6/ 3/85 END: 1900Z 26/ 4/85
 NO.OBS.= 1226 NO.PTS.ANAL.= 1226 MIDPT: 600Z 1/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	1.3409	0.00
2	MM	0.00151215	0.0198	254.59
3	MSF	0.00282193	0.0347	176.63
4	ALP1	0.03439657	0.0038	160.20
5	2Q1	0.03570635	0.0032	285.47
6	Q1	0.03721850	0.0087	217.48
7	O1	0.03873065	0.1214	230.31
8	N01	0.04026860	0.0159	268.90
9	P1	0.04155259	0.0903	273.25 INF FR K1
10	K1	0.04178075	0.2735	273.25
11	J1	0.04329290	0.0100	316.47
12	001	0.04483084	0.0085	312.10
13	UPS1	0.04634299	0.0022	293.40
14	EPS2	0.07617730	0.0079	345.45
15	MU2	0.07768947	0.0402	66.22
16	N2	0.07899922	0.1583	116.94
17	M2	0.08051139	0.6805	139.92
18	L2	0.08202356	0.0134	136.15
19	S2	0.08333331	0.2507	187.67
20	K2	0.08356148	0.0677	187.67 INF FR S2
21	ETA2	0.08507365	0.0099	274.90
22	M03	0.11924207	0.0046	222.63
23	M3	0.12076712	0.0032	270.64
24	MK3	0.12229216	0.0024	11.93
25	SK3	0.12511408	0.0040	5.23
26	MN4	0.15951067	0.0007	125.27
27	M4	0.16102278	0.0043	148.51
28	SN4	0.16233259	0.0012	183.67
29	MS4	0.16384470	0.0047	204.24
30	S4	0.16666669	0.0013	204.26
31	2MK5	0.20280355	0.0011	94.42
32	2SK5	0.20844740	0.0012	181.52
33	2MN6	0.24002206	0.0015	75.87
34	M6	0.24153417	0.0005	158.77
35	2MS6	0.24435616	0.0010	306.19
36	2SM6	0.24717808	0.0010	1.80
37	3MK7	0.28331494	0.0008	333.38
38	M8	0.32204562	0.0013	188.30

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #24 DUNDAS HARBOUR

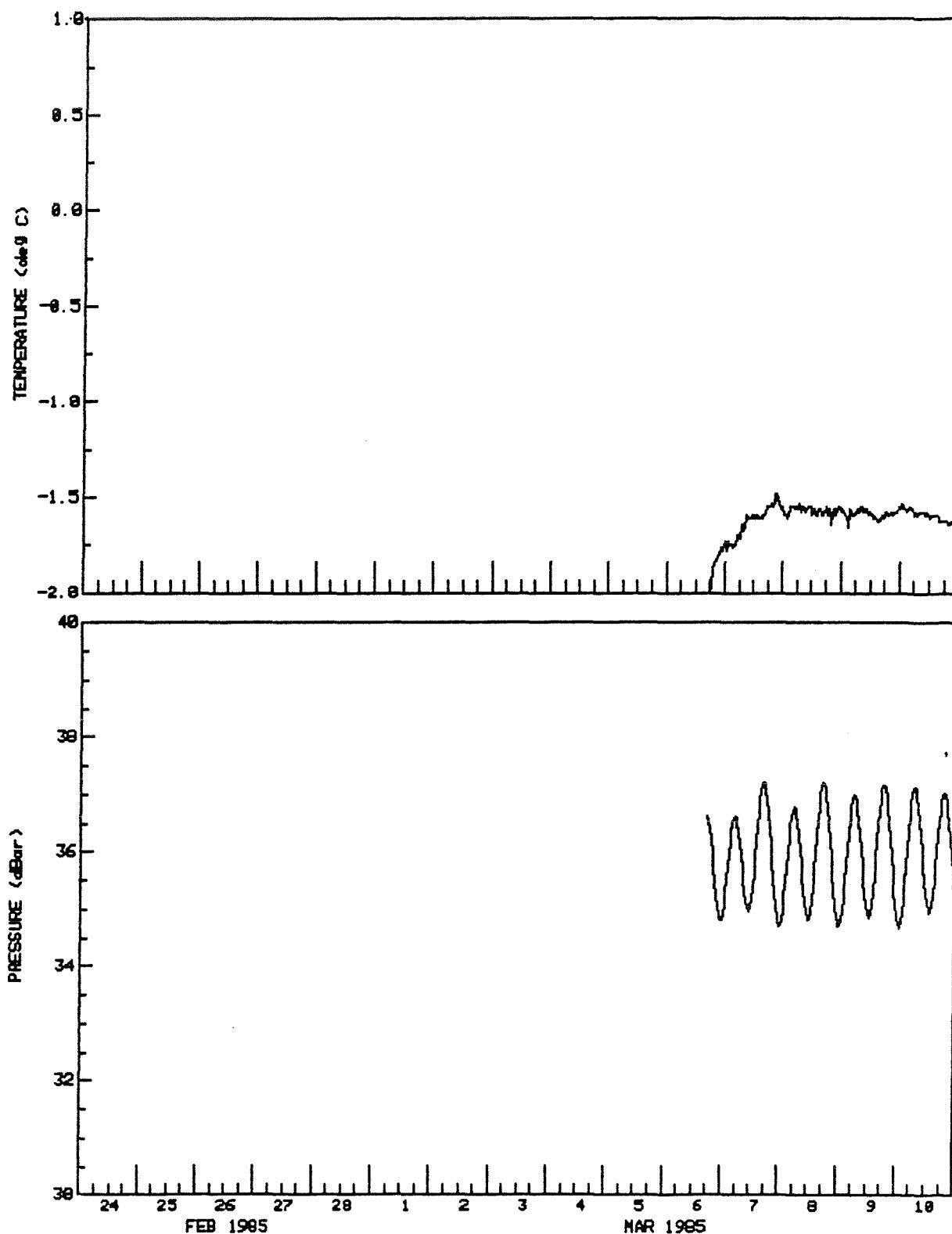
74 31' 21"N 82 28' 30"W

DEPTH(m) 36

AANDERAA WLR5 #183

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #24 DUNDAS HARBOUR

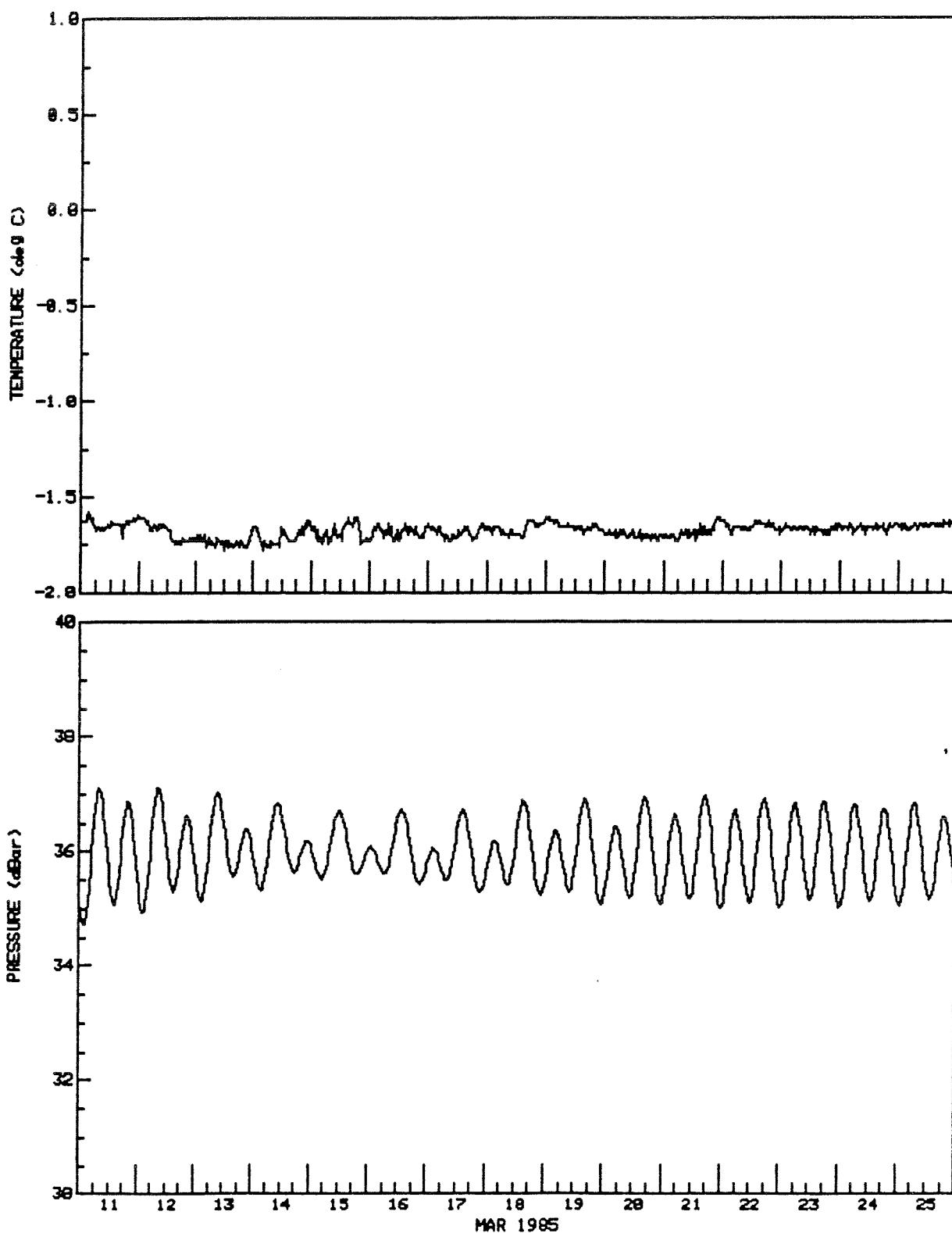
DEPTH(m) 36

TYPE DESPIKED

74 31' 21"N 82 28' 30"W

AANDERAA WLR5 #183

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #24 DUNDAS HARBOUR

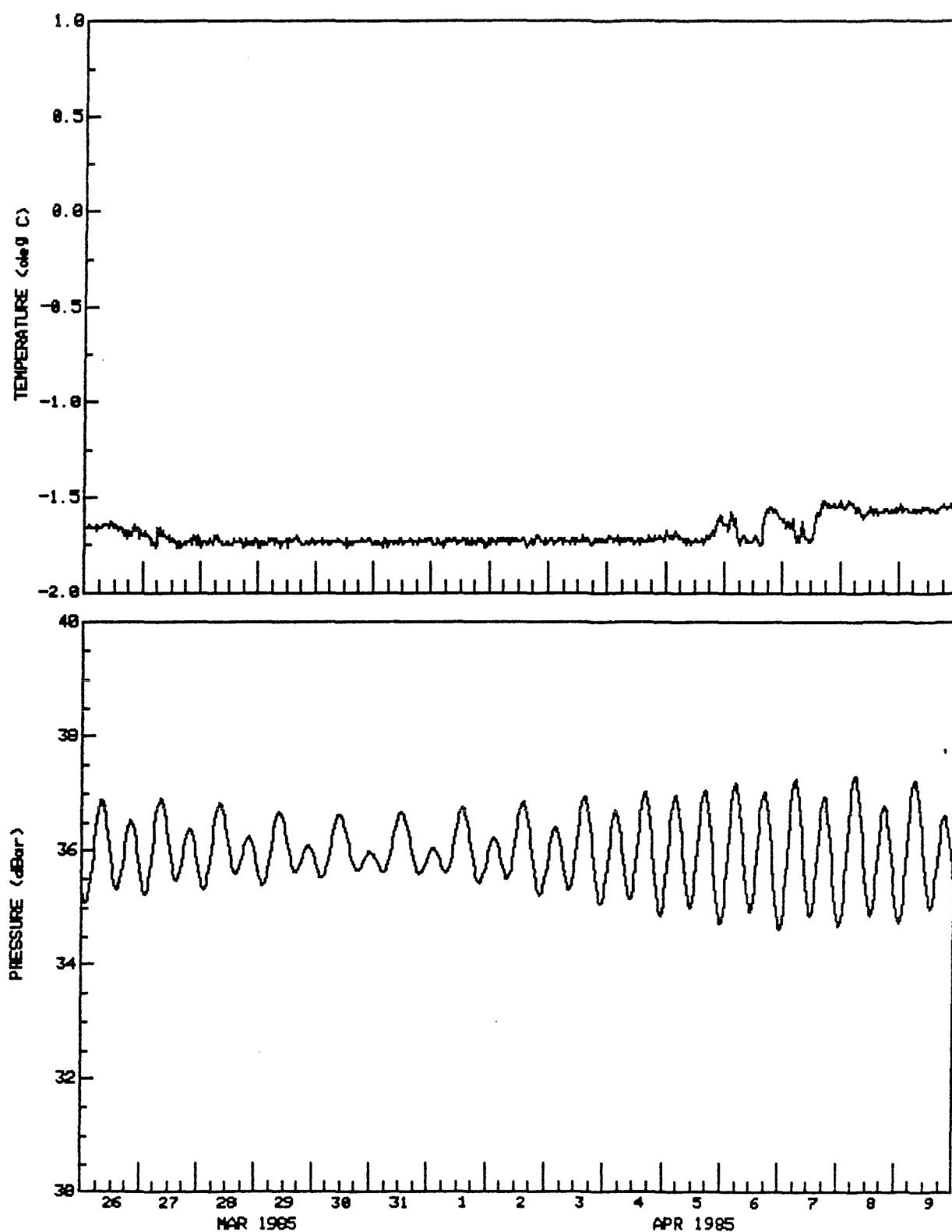
74 31' 21"N 82 28' 30"W

DEPTH(m) 36

AANDERAA WLR5

TYPE DESPIKED

#183 DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #24 DUNDAS HARBOUR

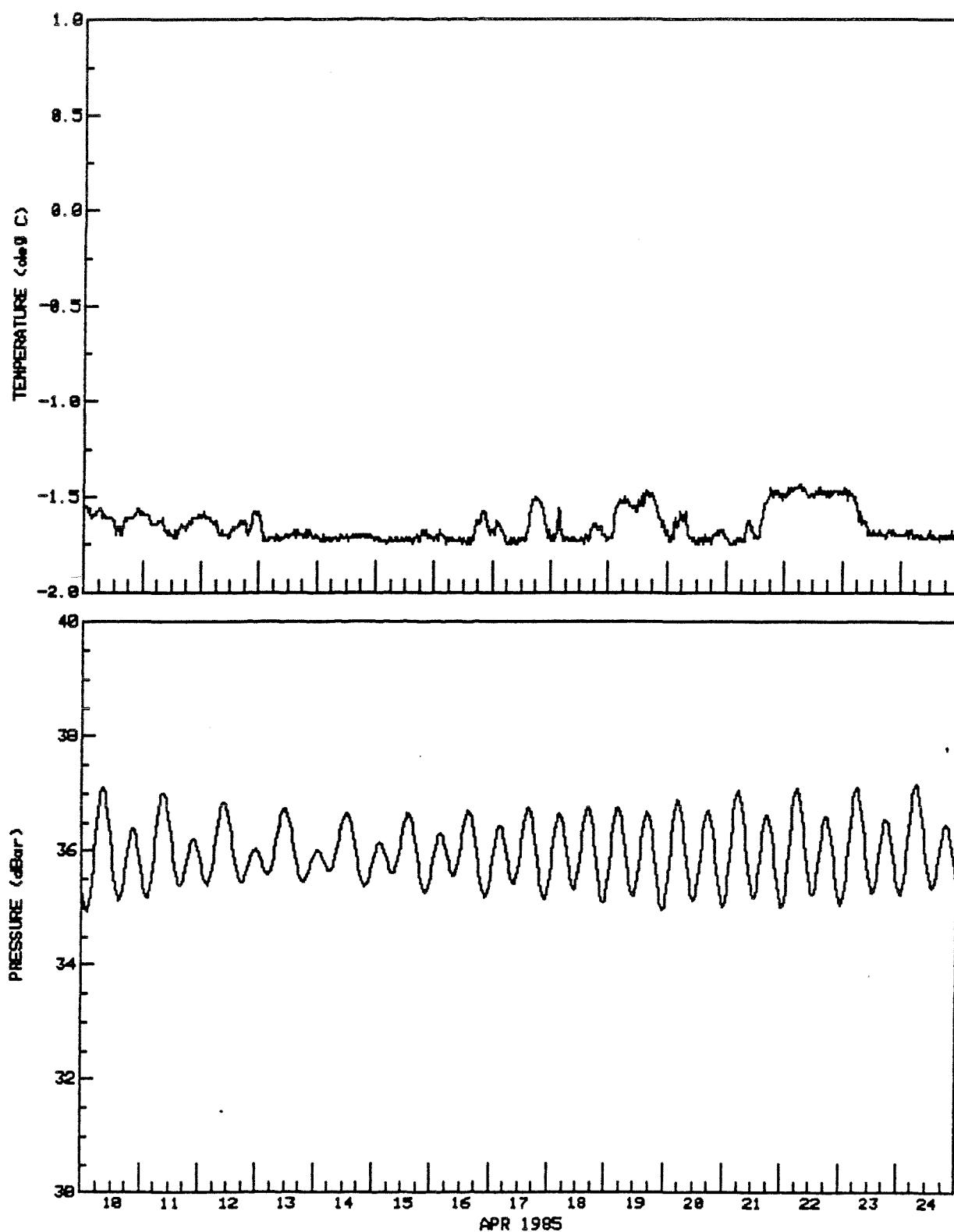
DEPTH(m) 36

TYPE DESPIKED

74 31' 21"N 82 28' 30"W

AANDERAA WLR5 #183

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #24 DUNDAS HARBOUR

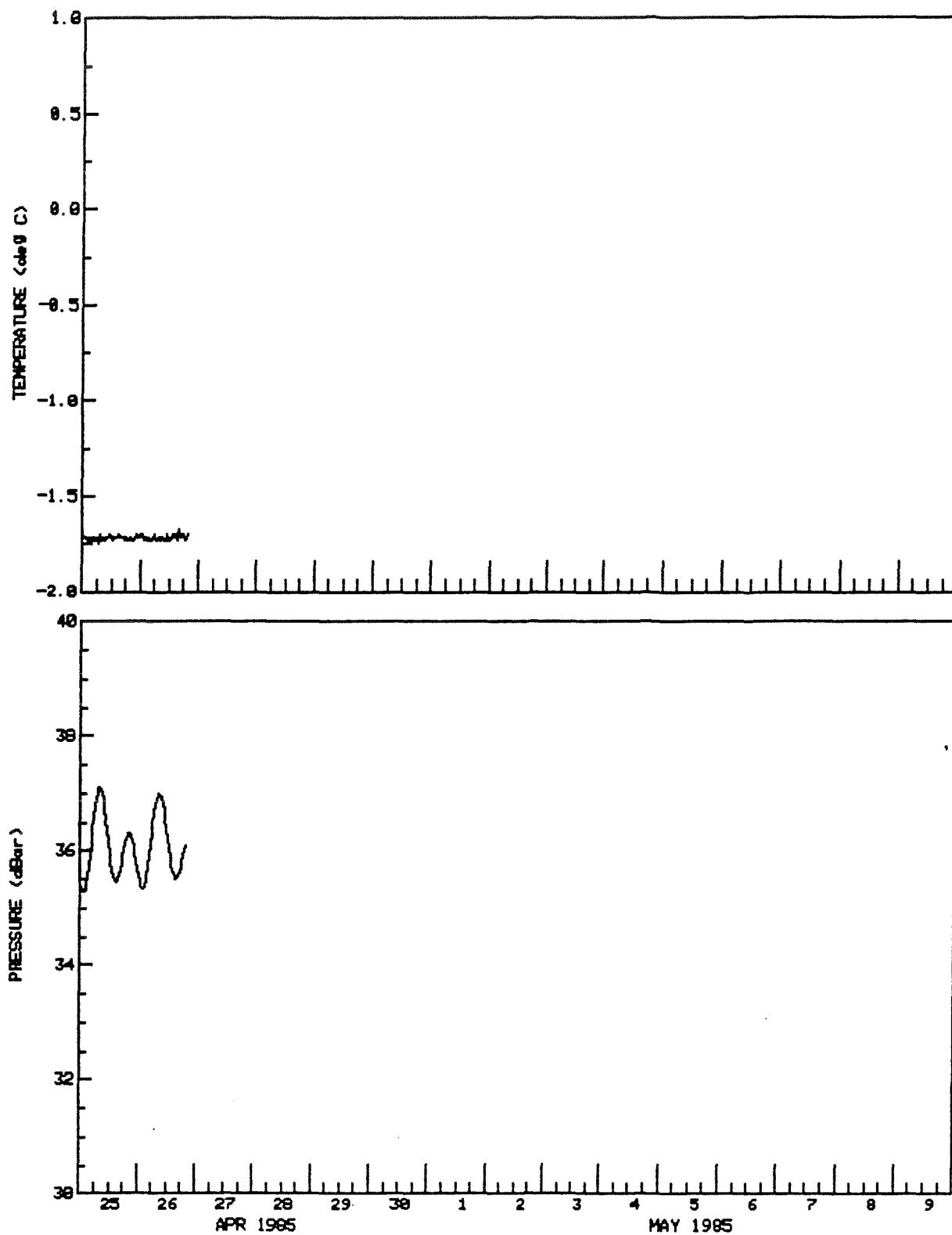
DEPTH(m) 36

TYPE DESPIKED

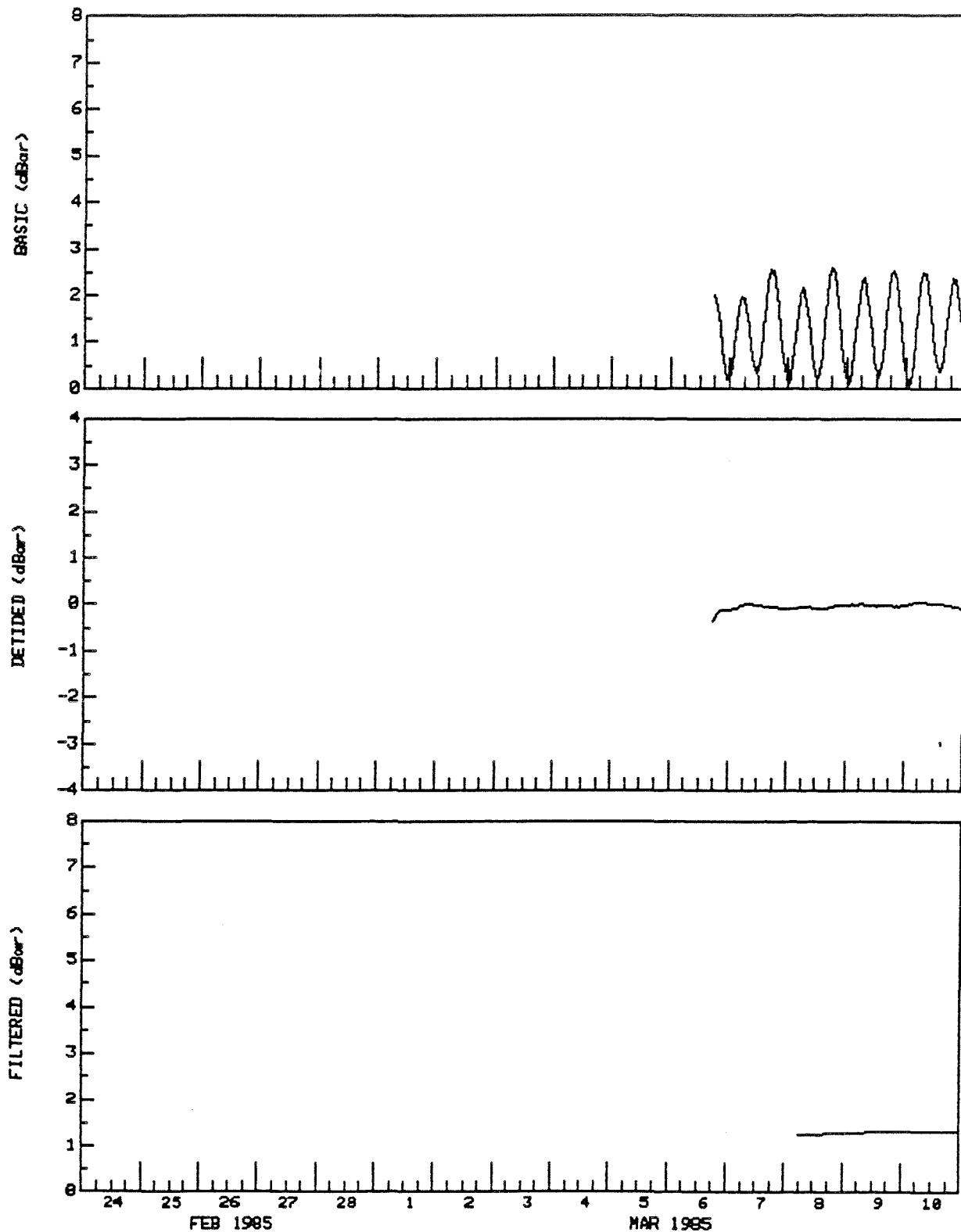
74 31' 21"N 82 28' 30"W

AANDERAA WLR5 #183

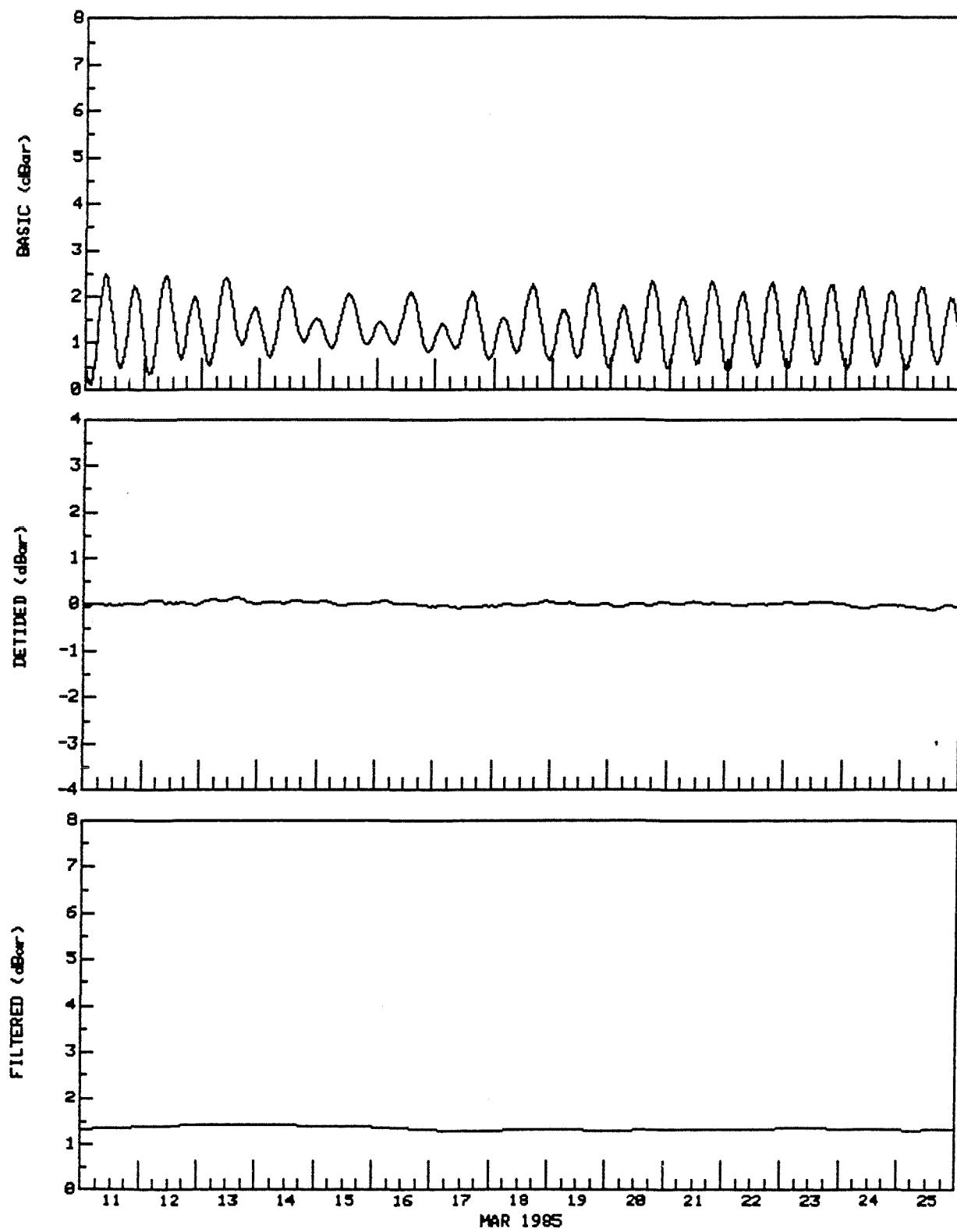
DT(min) 30



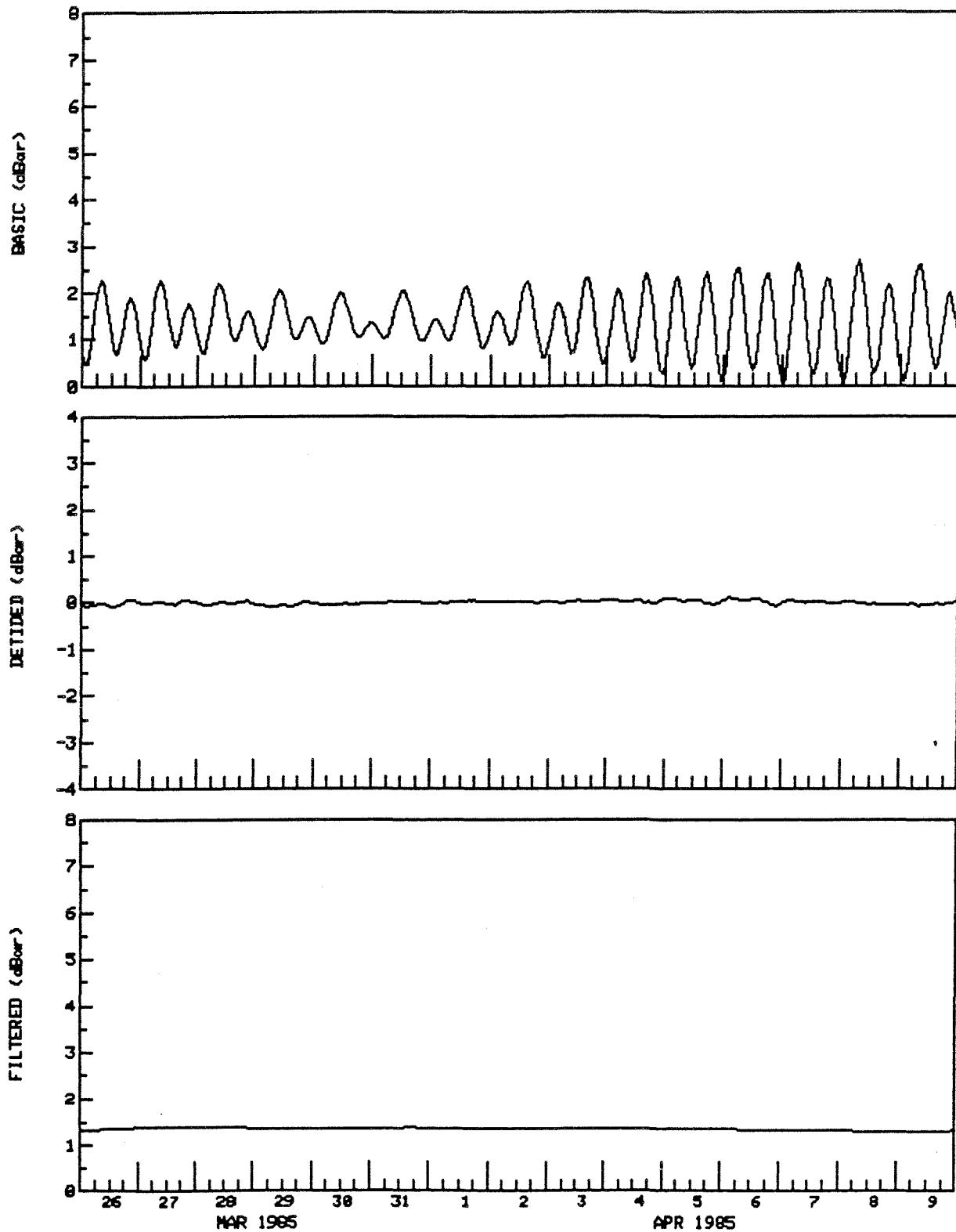
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #24 DUNDAS HARBOUR DEPTH(m) 36 TYPE DESPIKED
74 31' 21"N 82 28' 30"W AANDERAA WLRS #183 DT(min) 60



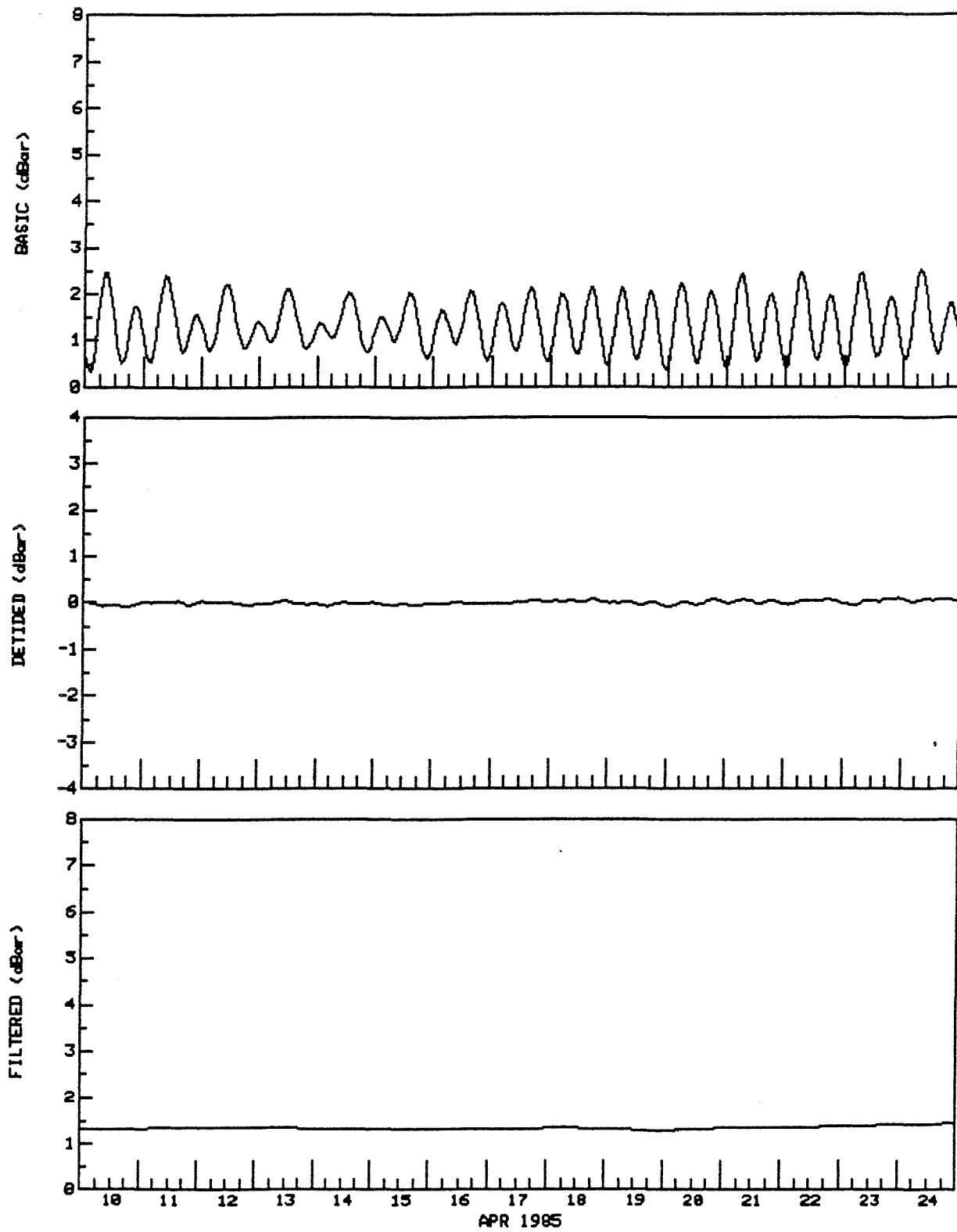
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #24 DUNDAS HARBOUR DEPTH(m) 36 TYPE DESPIKED
74 31' 21"N 82 28' 30"W AANDERAA WLR5 #183 DT(min) 60



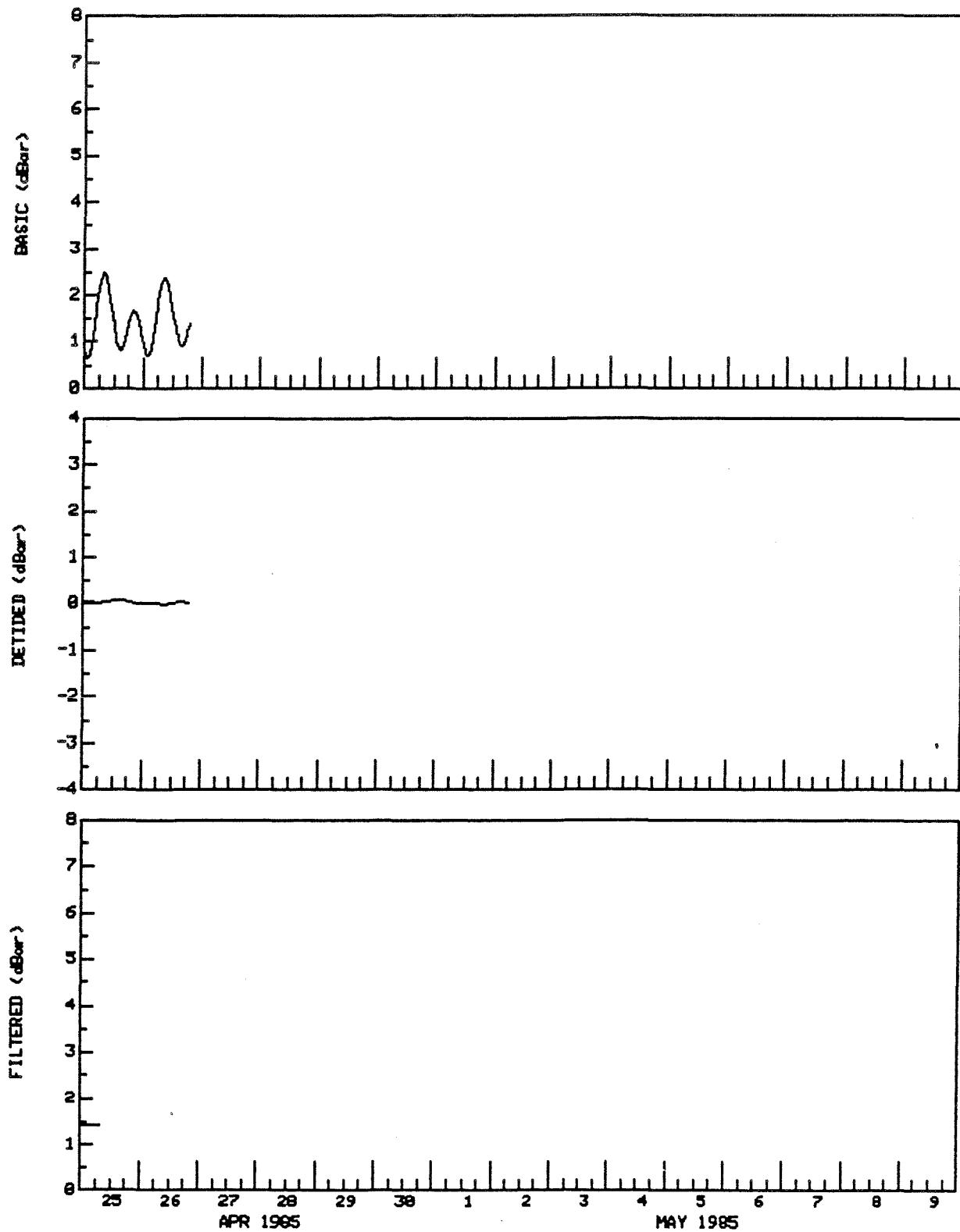
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #24 DUNDAS HARBOUR DEPTH(m) 36 TYPE DESPIKED
74 31' 21"N 82 28' 30"W AANDERAA WLR5 #183 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #24 DUNDAS HARBOUR DEPTH(m) 36 TYPE DESPIKED
74 31' 21"N 82 28' 30"W AANDERAA WLR5 #183 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #24 DUNDAS HARBOUR DEPTH(m) 36 TYPE DESPIKED
74 31' 21"N 82 28' 30"W AANDERAA WLR5 #183 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 27****TIDE GAUGE # 695**

Site # 27: Marshall Bay

Position: 78°55'48"N 69°25'00"W

Tide Gauge #: Aanderaa WLR5 #695

Date/Time of Deployment: 1985/03/12 15:06

Date/Time of Recovery: 1985/04/27 18:12

Sampling Interval: 30 min

Number of Records on Tape: 2259

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	5.370	2.740	1.123
Detided Pressure	-0.168	0.156	-0.001	0.057
Filtered Pressure	2.611	2.826	2.742	0.053

Data Quality: Timing 27 seconds slow

Clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #27 MARSHALL BAY LAT: 78 55 48.0 N
 DEPTH: 56 M LONG: 69 25 0.0 W
 START: 1600Z 12/ 3/85 END: 1800Z 27/ 4/85
 NO.OBS.= 1107 NO.PTS.ANAL.= 1107 MIDPT: 1700Z 4/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	---
1	Z0	0.00000000	2.7309	0.00
2	MM	0.00151215	0.0446	299.13
3	MSF	0.00282193	0.0180	155.43
4	ALP1	0.03439657	0.0015	194.50
5	ZQ1	0.03570635	0.0092	323.65
6	Q1	0.03721850	0.0093	271.15
7	O1	0.03873065	0.1137	231.94
8	NO1	0.04026860	0.0183	247.72
9	P1	0.04155259	0.1018	267.70 INF FR K1
10	K1	0.04178075	0.3086	267.70
11	J1	0.04329290	0.0078	273.05
12	001	0.04483084	0.0095	297.58
13	UPS1	0.04634299	0.0036	272.17
14	EPS2	0.07617730	0.0106	328.53
15	MU2	0.07768947	0.0774	43.02
16	N2	0.07899922	0.3078	88.53
17	M2	0.08051139	1.3711	110.74
18	L2	0.08202356	0.0350	118.82
19	S2	0.08333331	0.5894	153.96
20	K2	0.08356148	0.1591	153.96 INF FR S2
21	ETA2	0.08507365	0.0150	303.38
22	M03	0.11924207	0.0026	356.60
23	M3	0.12076712	0.0114	50.07
24	MK3	0.12229216	0.0035	141.13
25	SK3	0.12511408	0.0058	185.31
26	MN4	0.15951067	0.0009	55.10
27	M4	0.16102278	0.0032	49.63
28	SN4	0.16233259	0.0014	45.17
29	MS4	0.16384470	0.0033	84.18
30	S4	0.16666669	0.0019	154.59
31	2MK5	0.20280355	0.0012	202.09
32	2SK5	0.20844740	0.0012	102.61
33	2MN6	0.24002206	0.0004	348.65
34	M6	0.24153417	0.0013	37.84
35	2MS6	0.24435616	0.0014	130.17
36	2SM6	0.24717808	0.0012	162.25
37	3MK7	0.28331494	0.0004	125.54
38	M8	0.32204562	0.0005	122.25

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #27 MARSHALL BAY

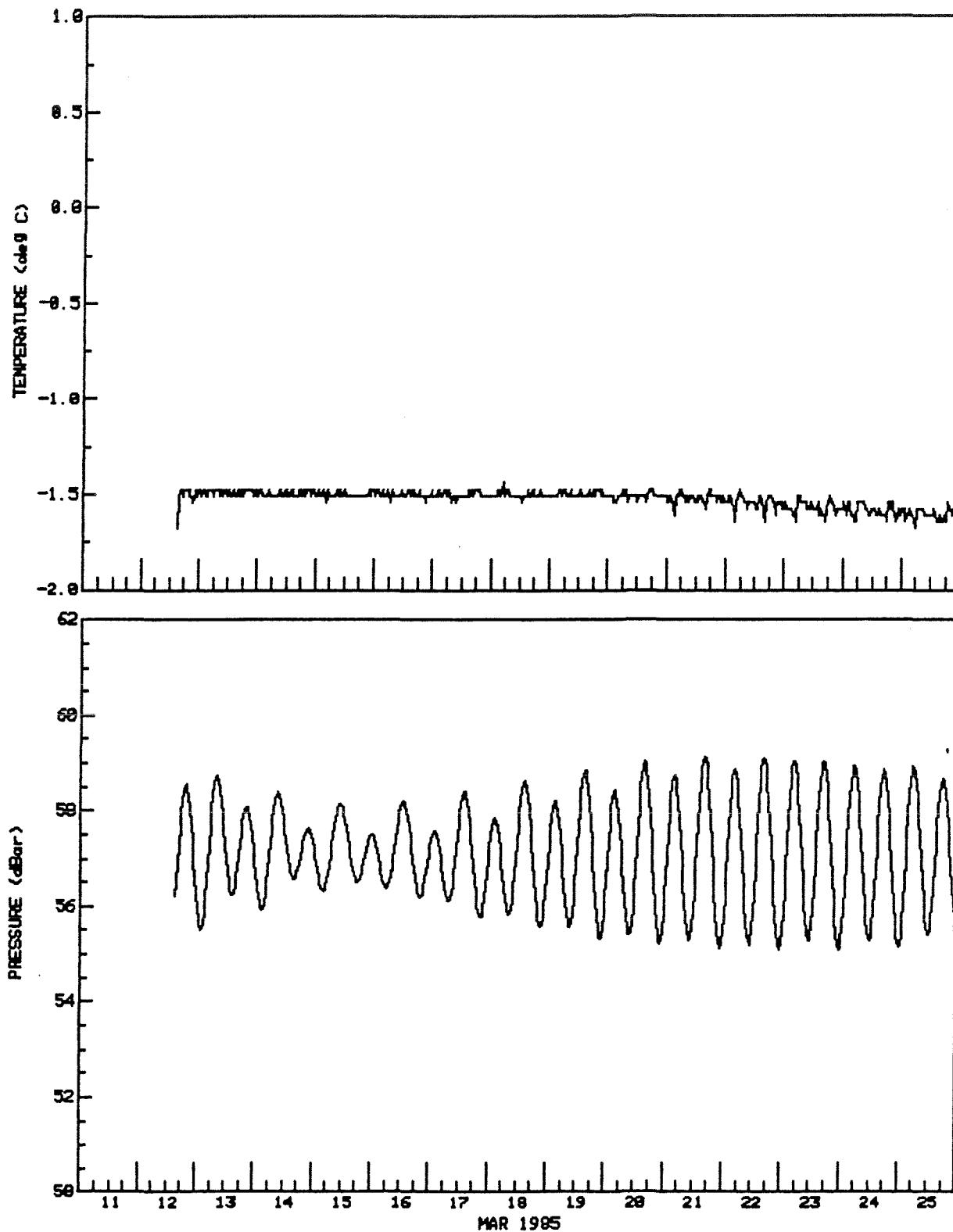
78 55' 48"N 69 25' 00"W

DEPTH(m) 57

AANDERAA WLR5 #695

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #27 MARSHALL BAY

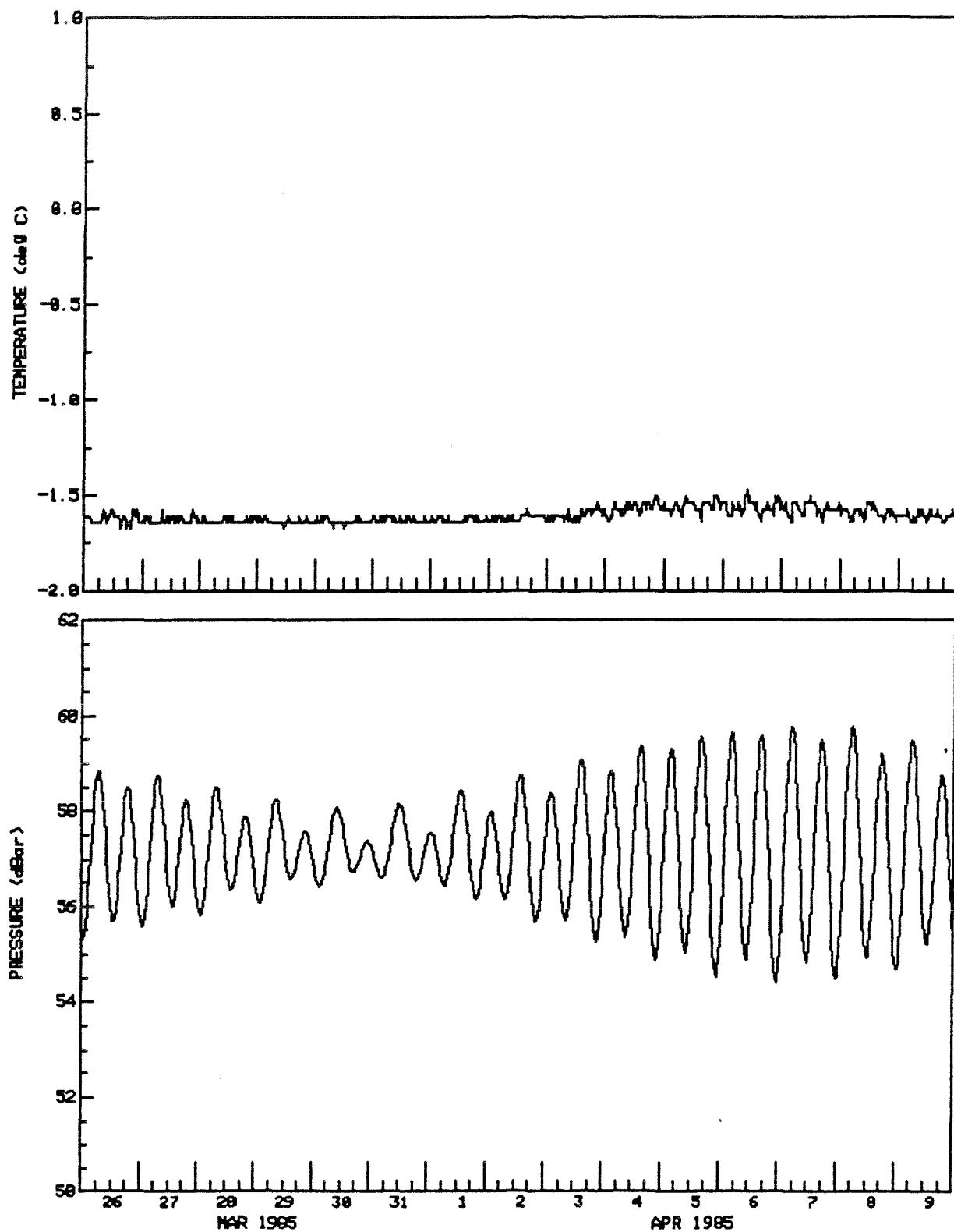
78 55' 48"N 69 25' 00"W

DEPTH(m) 57

AANDERAA WLR5 #695

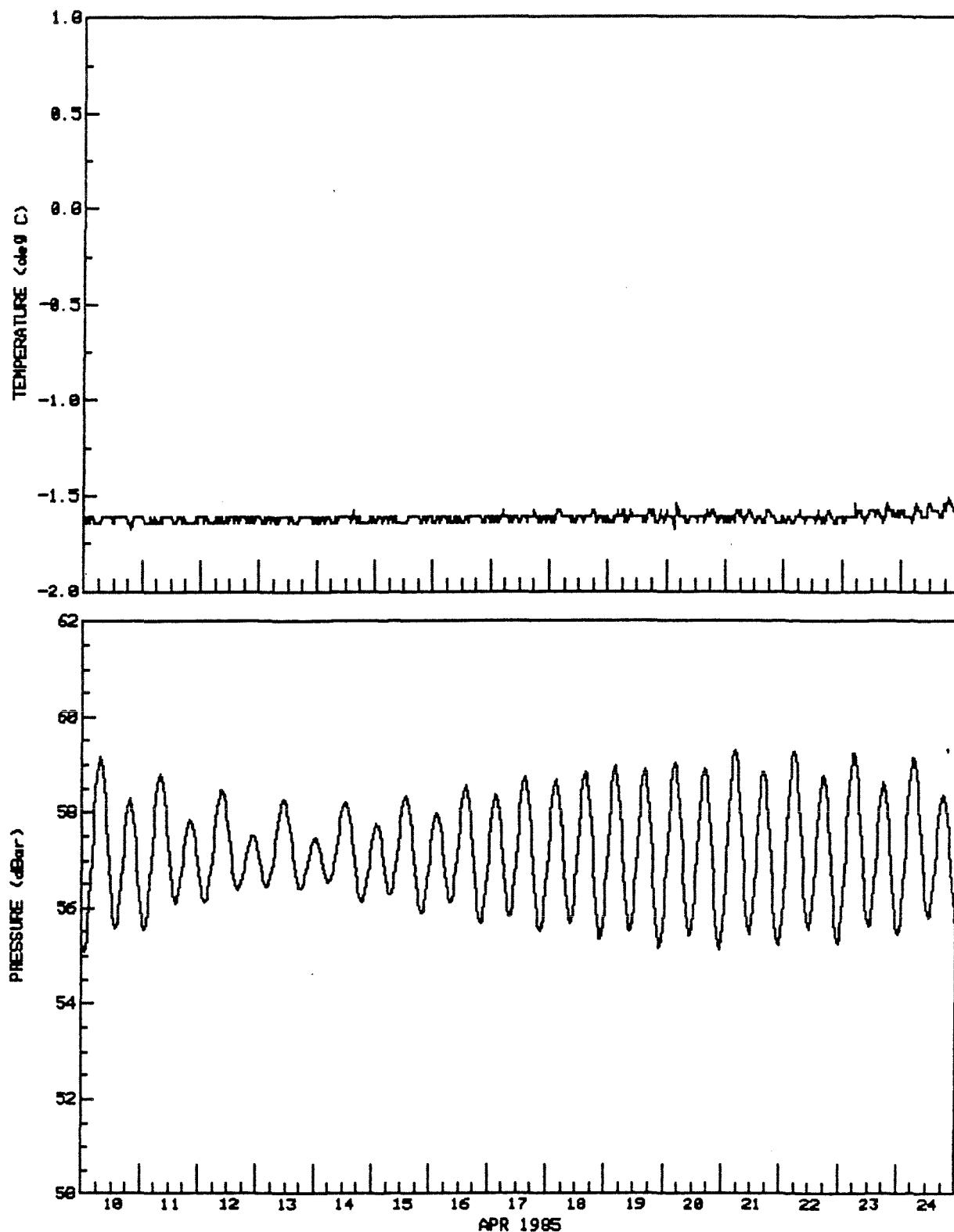
TYPE DESPIKED

DT(min) 30



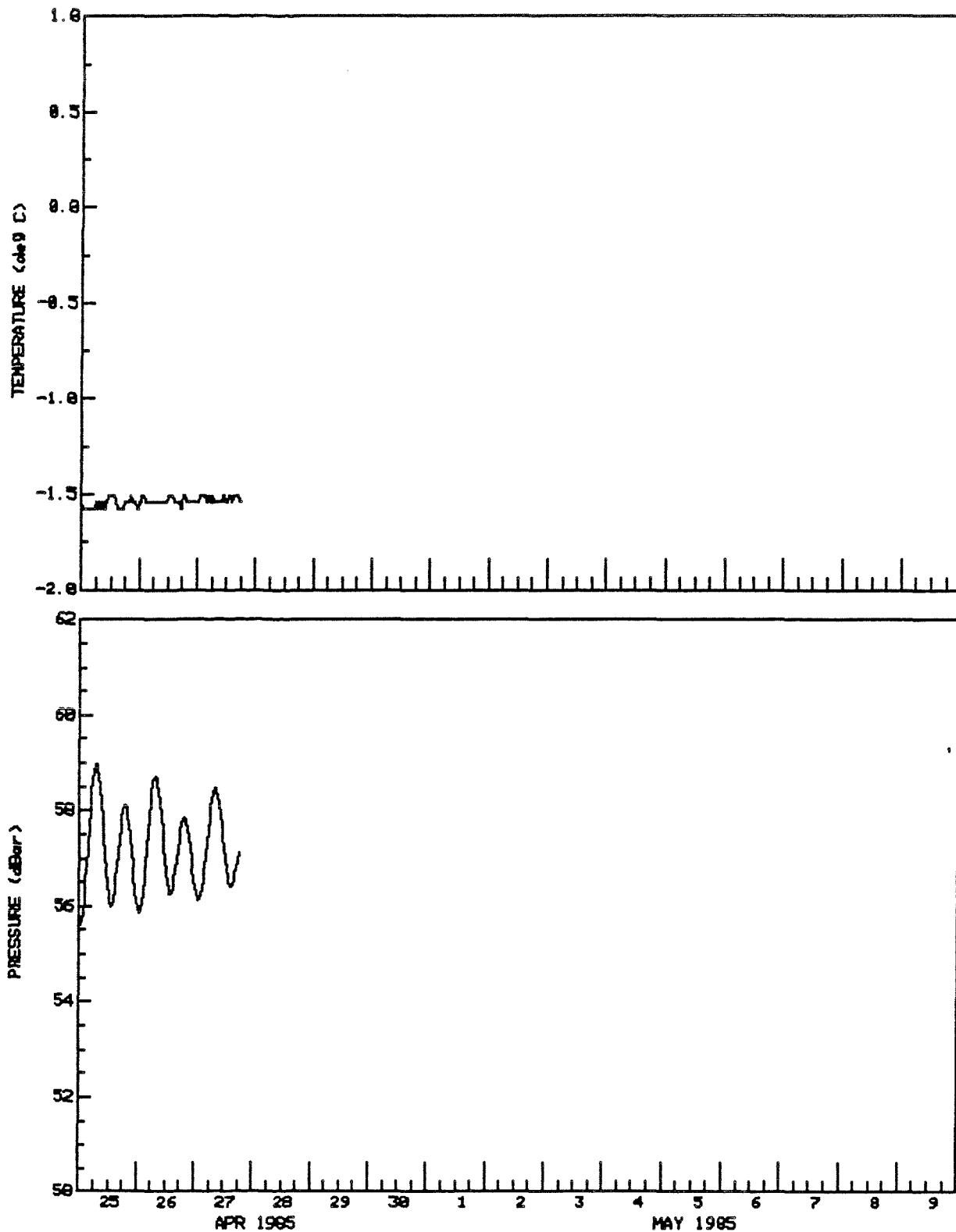
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #27 MARSHALL BAY DEPTH(m) 57 TYPE DESPIKED
78 55' 48"N 69 25' 00"W AANDERAA WLR5 #695 DT(min) 30

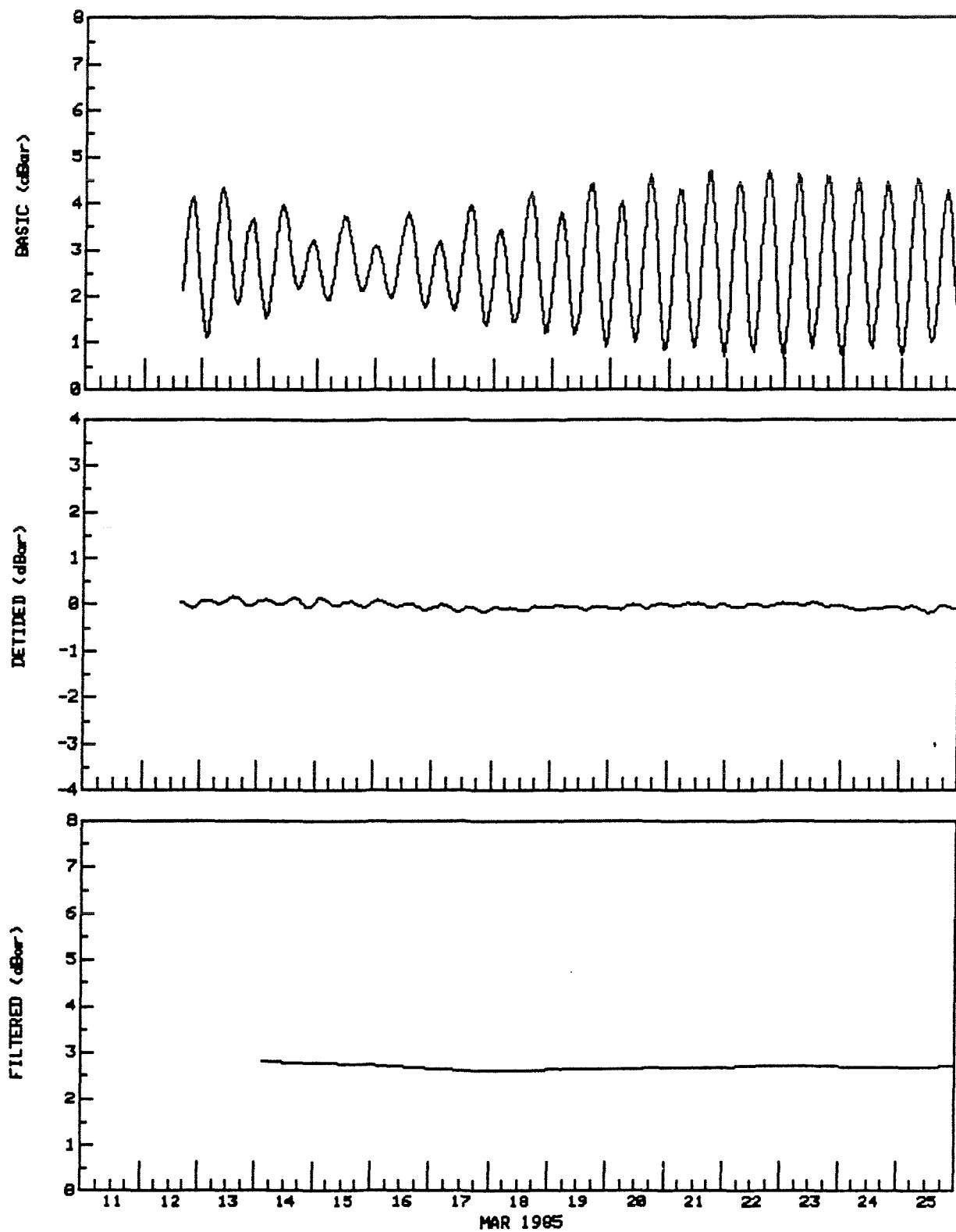


EASTERN ARCTIC TIDAL SURVEY, 1985

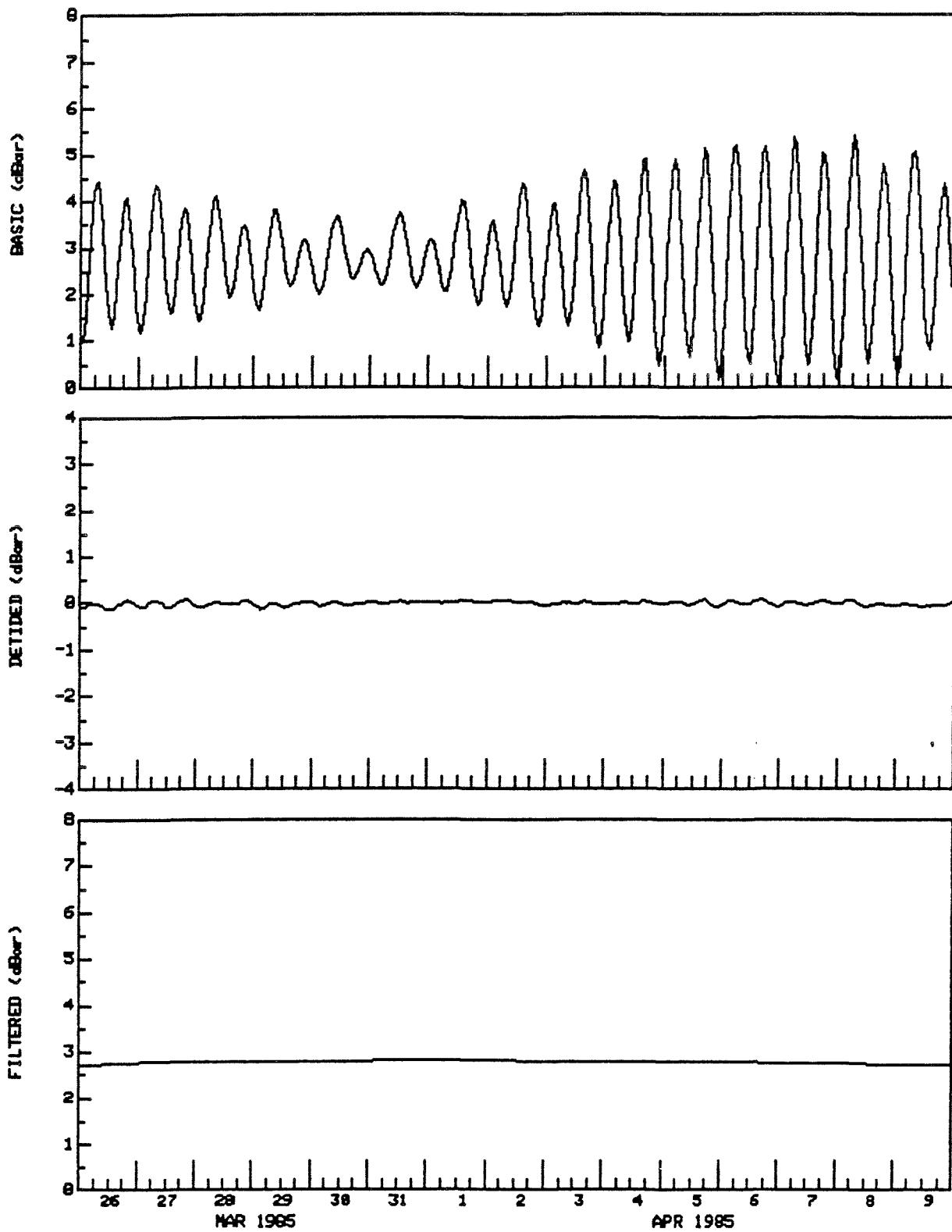
SITE #27 MARSHALL BAY DEPTH(m) 57 TYPE DESPIKED
78 55' 48"N 69 25' 00"W AANDERAA WLR5 #695 DT(min) 30



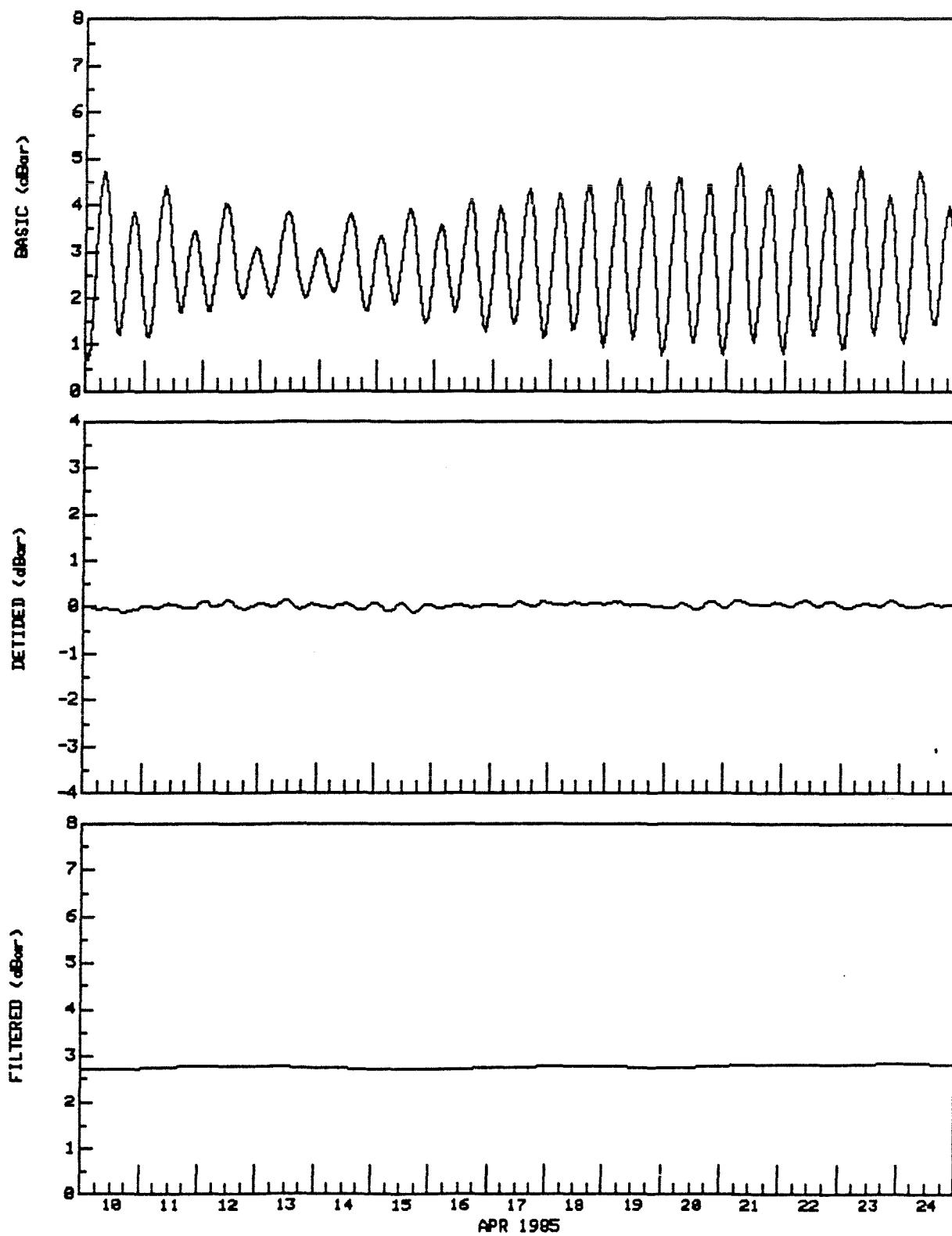
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #27 MARSHALL BAY DEPTH(m) 57 TYPE DESPIKED
78 55' 48"N 69 25' 00"W AANDERAA WLR5 #695 DT(min) 60



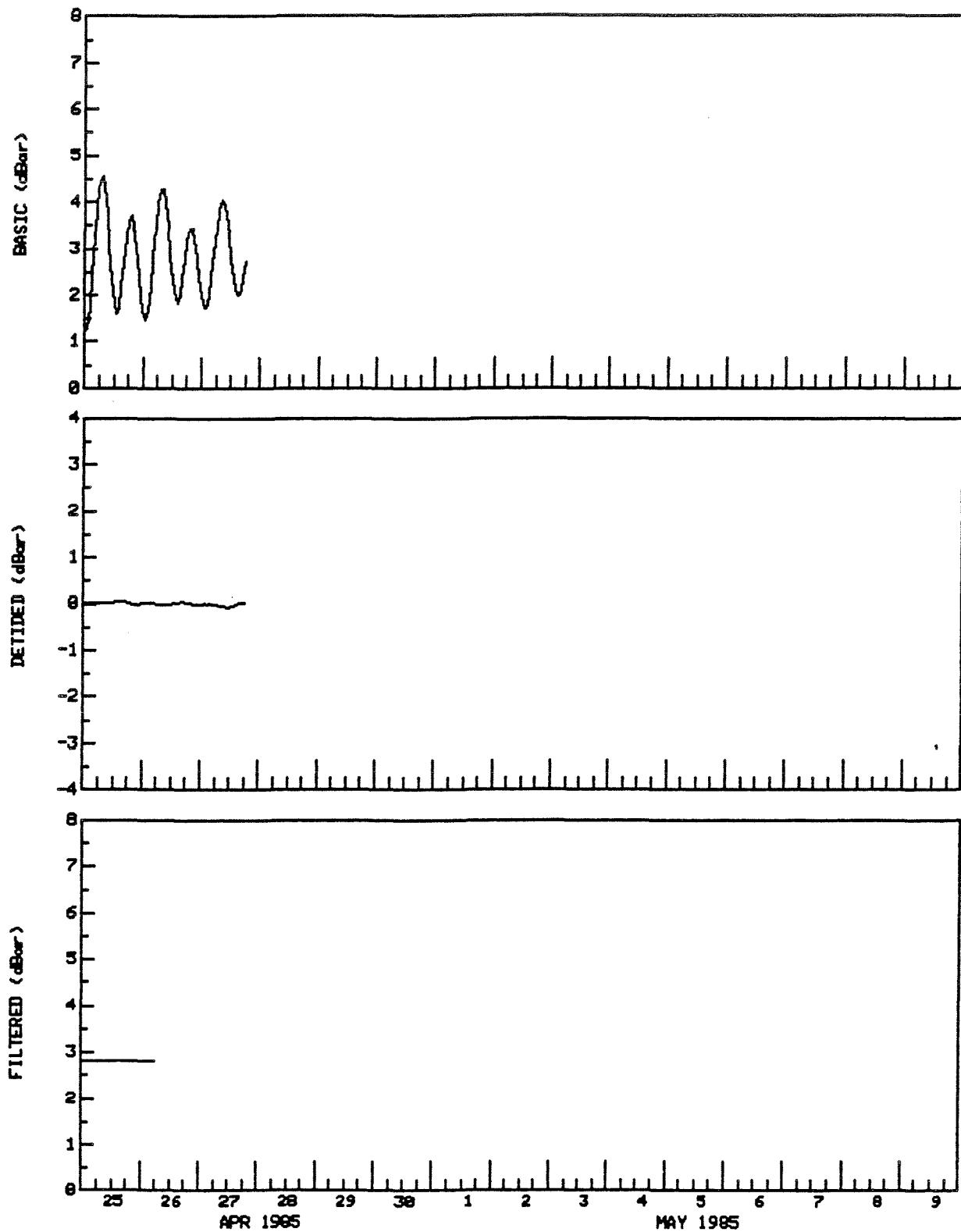
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #27 MARSHALL BAY DEPTH(m) 57 TYPE DESPIKED
78 55' 48"N 69 25' 00"W AANDERAA WLR5 #695 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #27 MARSHALL BAY DEPTH(m) 57 TYPE DESPIKED
78 55' 48"N 69 25' 00"W AANDERAA WLR5 #695 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #27 MARSHALL BAY DEPTH(m) 57 TYPE DESPIKED
78 55' 48"N 69 25' 00"W AANDERAA WLR5 #695 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 28****TIDE GAUGE # 819**

Site # 28: Alexandra Fjord

Position: 78°55'42"N 75°31'00"W

Tide Gauge #: Aanderaa WLR5 #819

Date/Time of Deployment: 1985/03/12 13:55

Date/Time of Recovery: 1985/04/27 17:15

Sampling Interval: 30 min

Number of Records on Tape: 2419

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	5.158	2.600	1.080
Detided Pressure	-0.156	0.127	-0.001	0.048
Filtered Pressure	2.525	2.675	2.603	0.036

Data Quality: Timing 22 seconds slow

Record fairly clean, few spikes

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #28 ALEXANDRA FJORD LAT: 78 55 42.0 N
 DEPTH: 27 M LONG: 75 31 0.0 W
 START: 1400Z 12/ 3/85 END: 1700Z 27/ 4/85
 NO.OBS.= 1108 NO.PTS.ANAL.= 1108 MIDPT: 1500Z 4/ 4/85

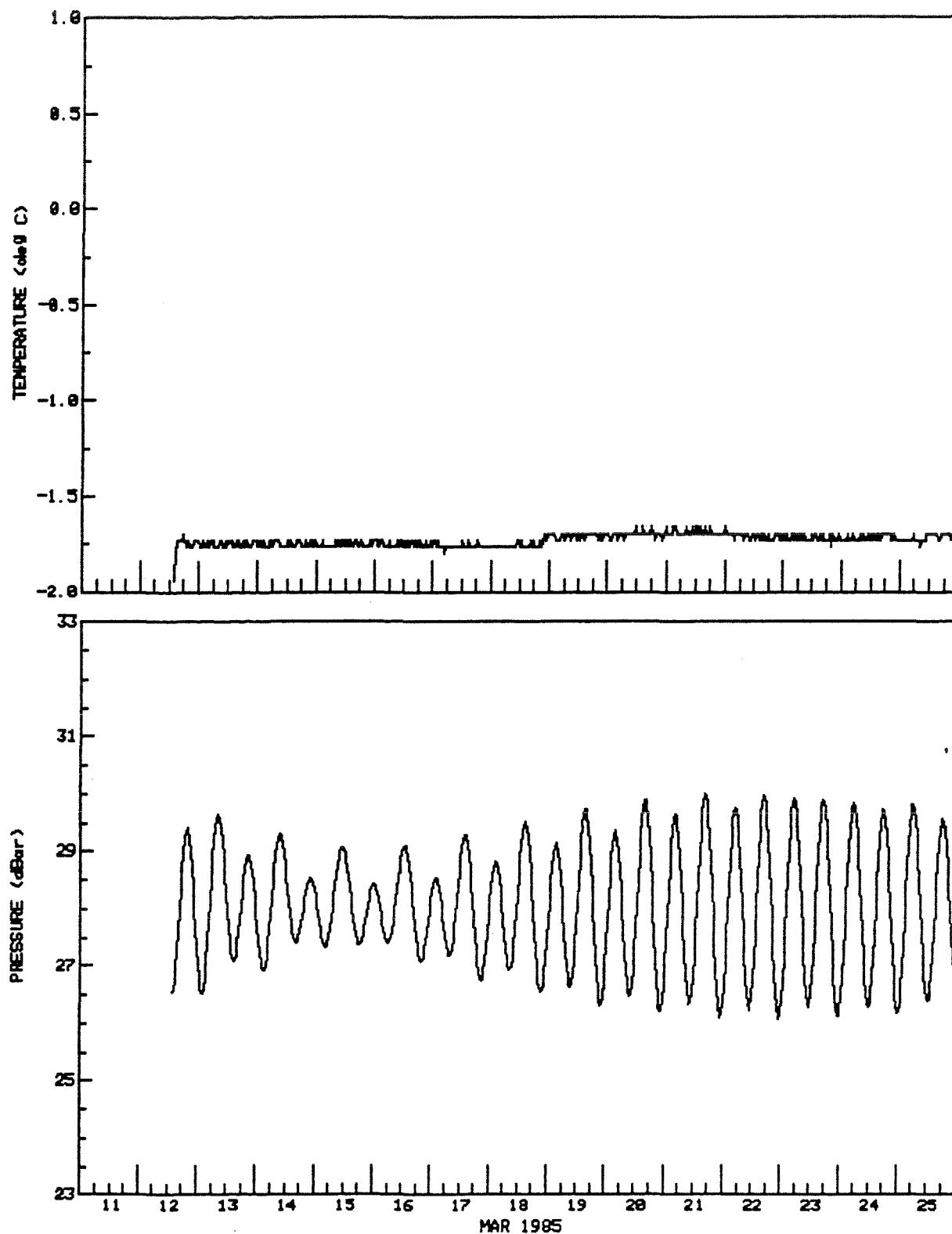
	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	----
1	Z0	0.00000000	2.5907	0.00
2	MM	0.00151215	0.0243	296.81
3	MSF	0.00282193	0.0146	146.95
4	ALP1	0.03439657	0.0010	136.07
5	2Q1	0.03570635	0.0082	316.04
6	Q1	0.03721850	0.0082	252.72
7	O1	0.03873065	0.1099	219.41
8	N01	0.04026860	0.0164	235.66
9	P1	0.04155259	0.0969	258.09 INF FR K1
10	K1	0.04178075	0.2937	258.09
11	J1	0.04329290	0.0076	262.19
12	001	0.04483084	0.0092	287.26
13	UPS1	0.04634299	0.0036	254.31
14	EPS2	0.07617730	0.0106	324.19
15	MU2	0.07768947	0.0737	46.39
16	N2	0.07899922	0.2987	92.47
17	M2	0.08051139	1.3248	115.21
18	L2	0.08202356	0.0355	123.28
19	S2	0.08333331	0.5618	159.40
20	K2	0.08356148	0.1517	159.40 INF FR S2
21	ETA2	0.08507365	0.0138	307.72
22	M03	0.11924207	0.0016	17.27
23	M3	0.12076712	0.0081	59.80
24	MK3	0.12229216	0.0026	137.46
25	SK3	0.12511408	0.0053	204.56
26	MN4	0.15951067	0.0019	48.86
27	M4	0.16102278	0.0038	66.00
28	SN4	0.16233259	0.0009	103.57
29	MS4	0.16384470	0.0031	131.44
30	S4	0.16666669	0.0008	151.59
31	2MK5	0.20280355	0.0009	242.36
32	2SK5	0.20844740	0.0002	344.12
33	2MN6	0.24002206	0.0008	259.44
34	M6	0.24153417	0.0014	325.76
35	2MS6	0.24435616	0.0016	55.14
36	2SM6	0.24717808	0.0008	129.05
37	3MK7	0.28331494	0.0002	162.70
38	M8	0.32204562	0.0004	239.45

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #28 ALEXANDRA FJORD
78 55' 42"N 75 31' 00"W

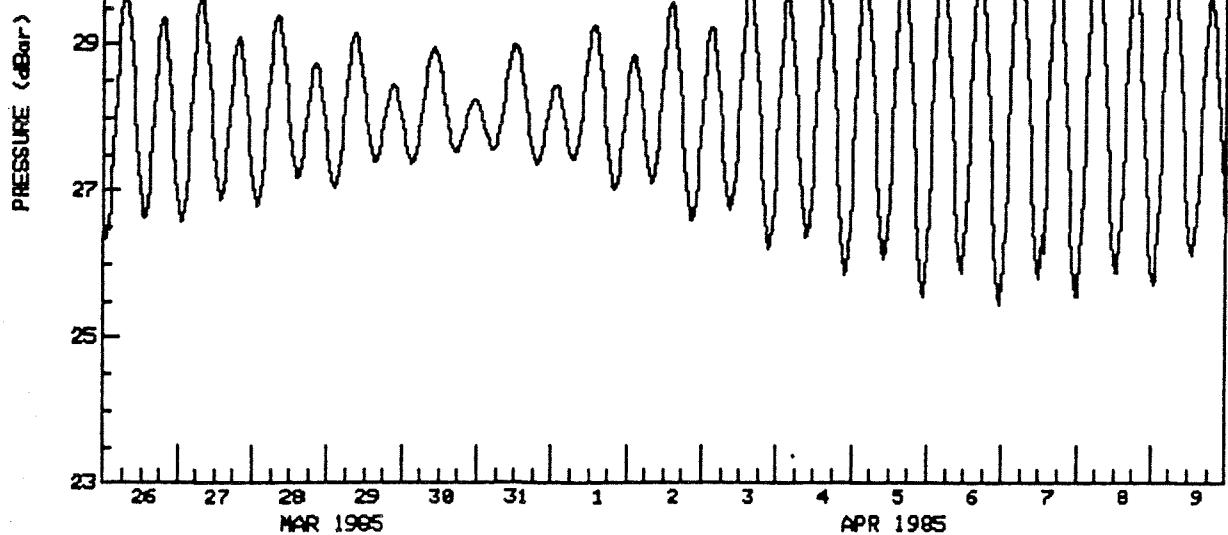
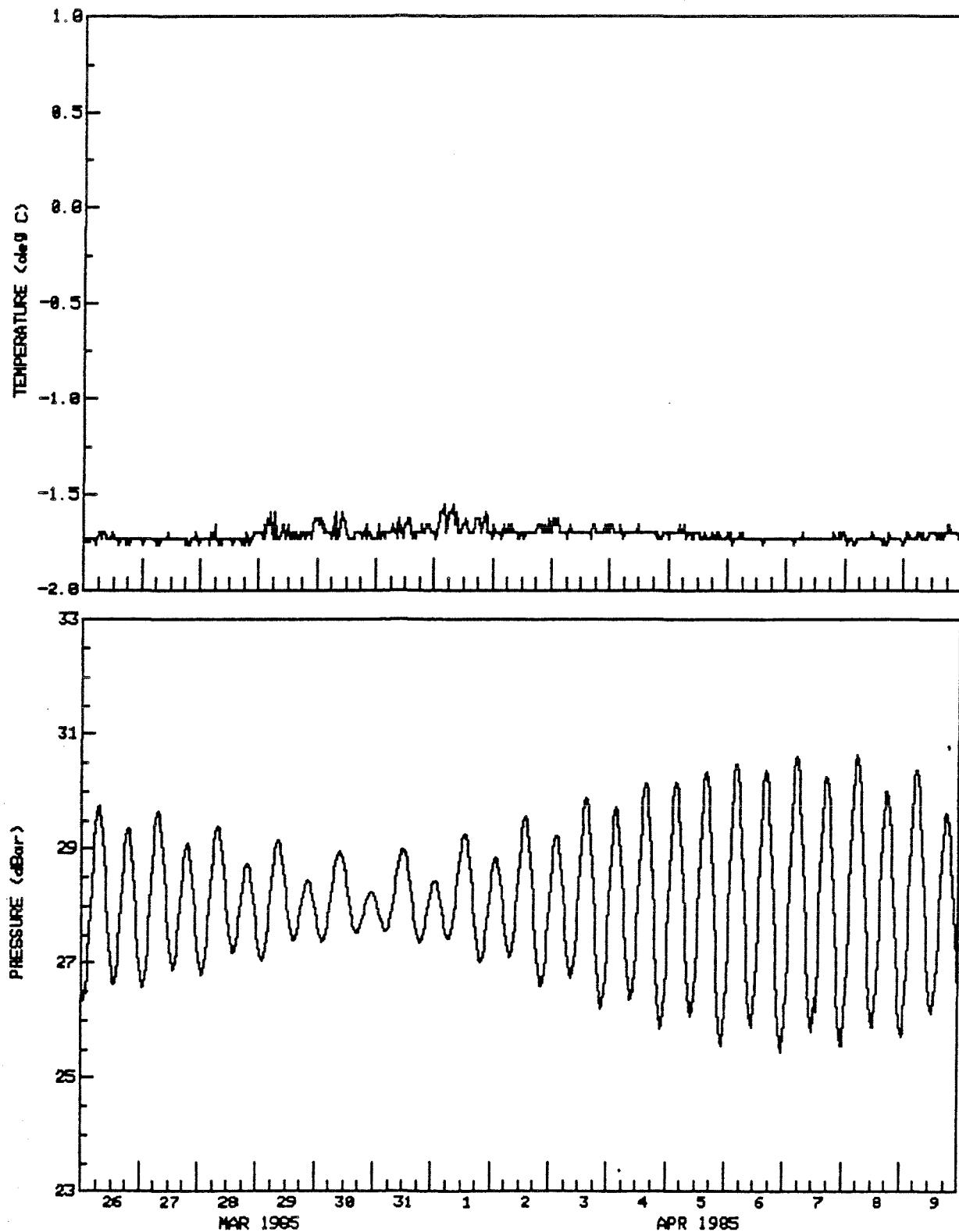
DEPTH(m) 28
AANDERAA WLR5 #819

TYPE DESPIKED
DT(min) 30



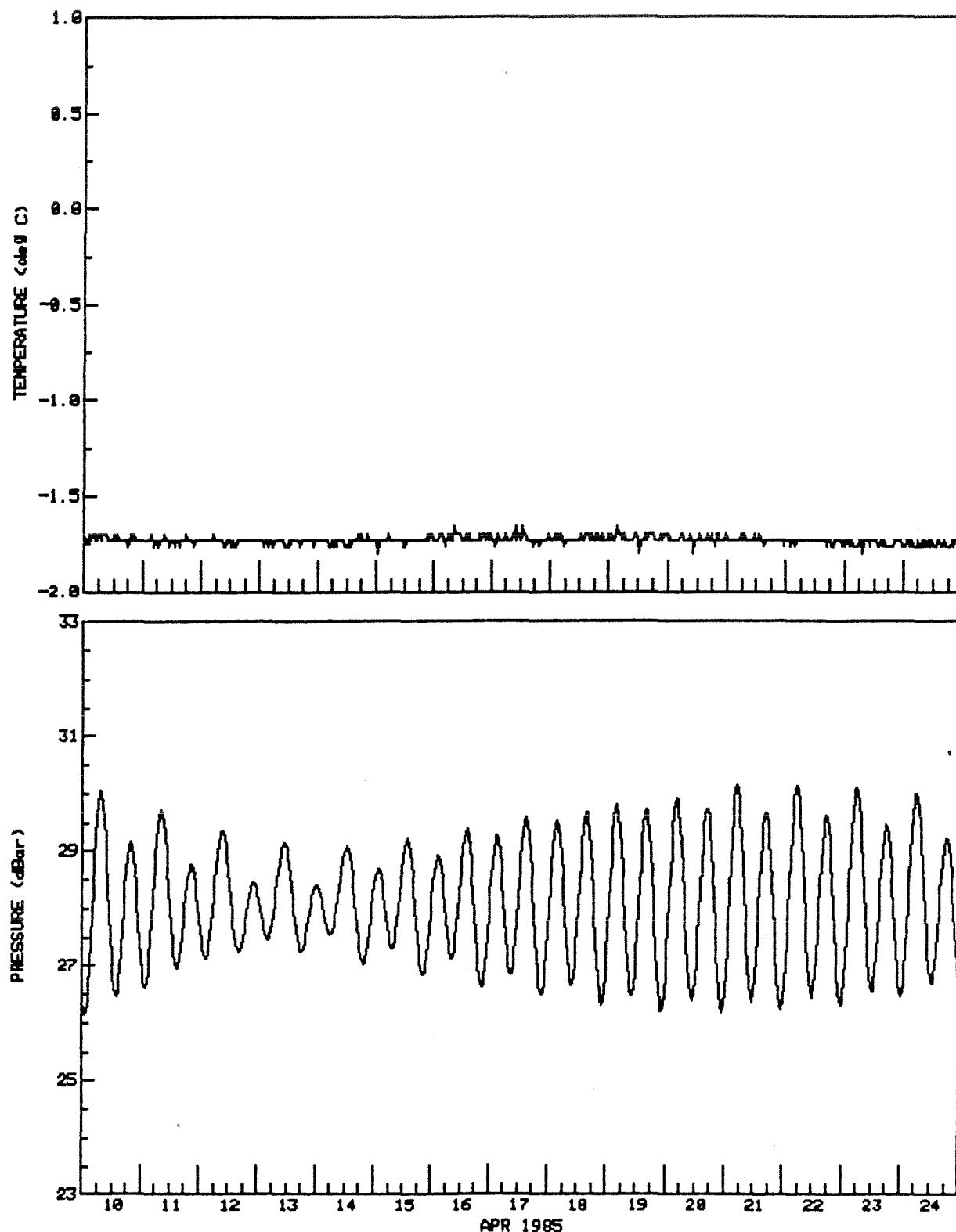
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #28 ALEXANDRA FJORD DEPTH(m) 28 TYPE DESPIKED
78 55' 42"N 75 31' 00"W AANDERAA WLR5 #819 DT(min) 30



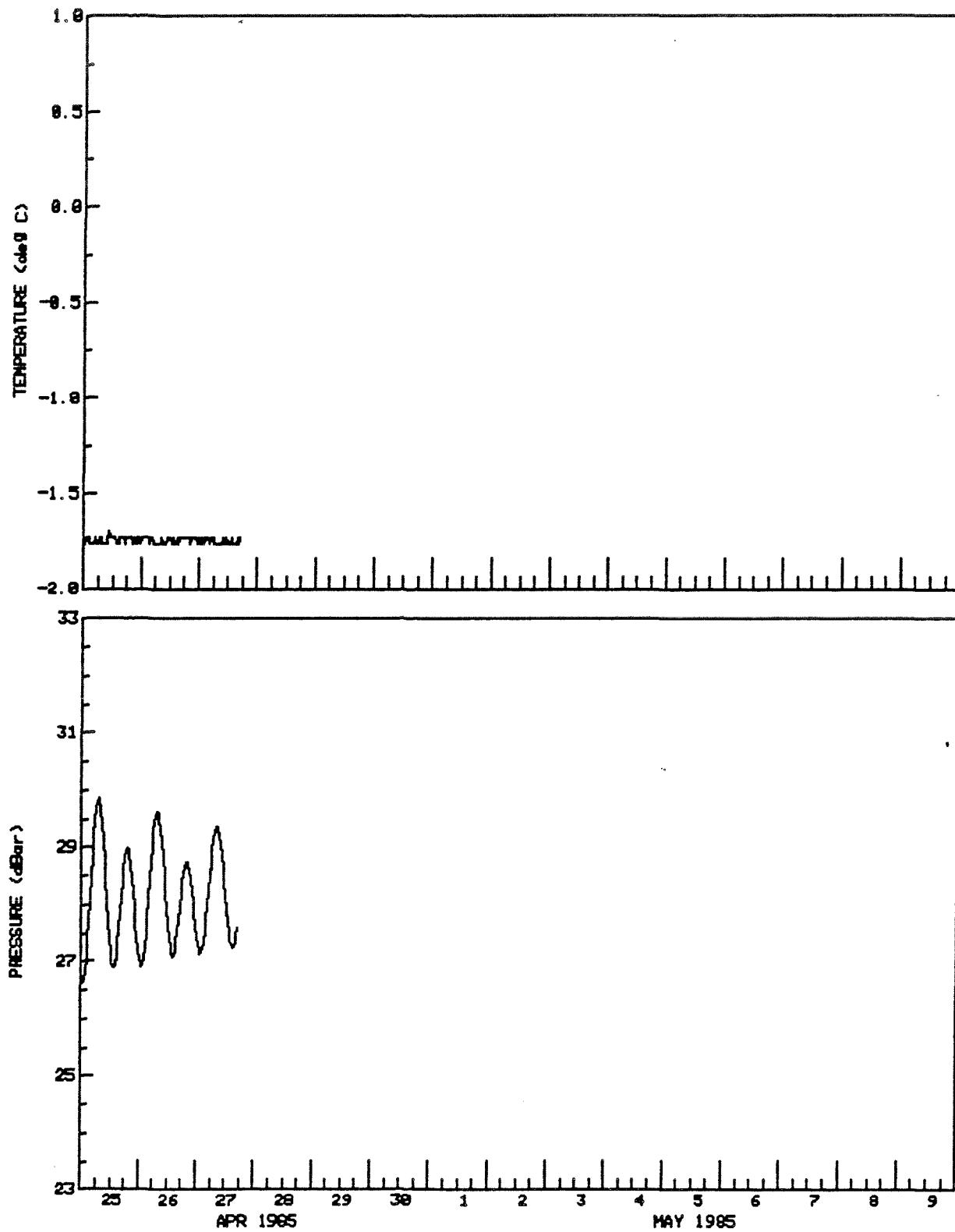
EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #28 ALEXANDRA FJORD DEPTH(m) 28 TYPE DESPIKED
78 55' 42"N 75 31' 00"W AANDERAA WLR5 #819 DT(min) 30

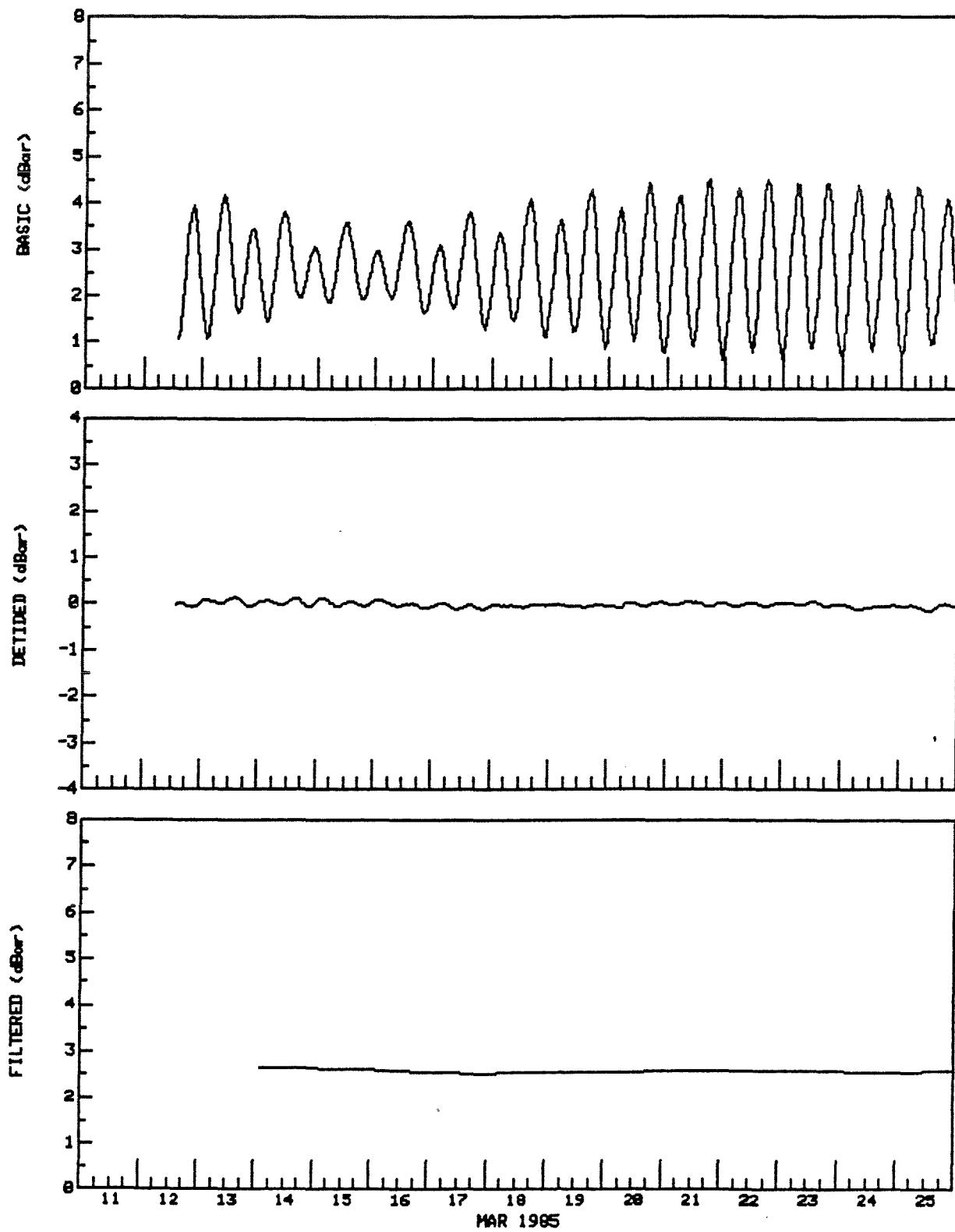


EASTERN ARCTIC TIDAL SURVEY, 1985

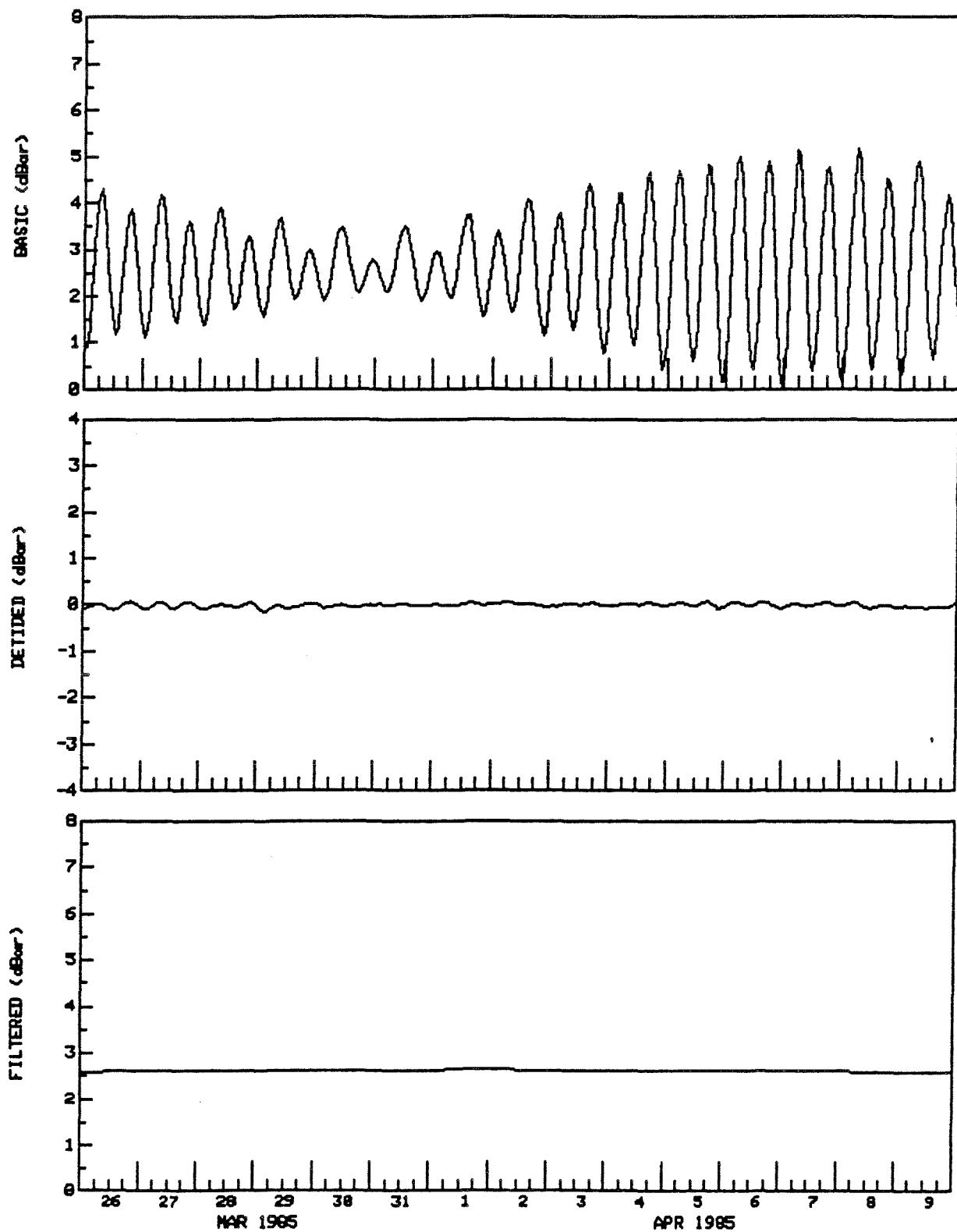
SITE #28 ALEXANDRA FJORD DEPTH(m) 28 TYPE DESPIKED
78 55' 42"N 75 31' 00"W AANDERAA WLR5 #819 DT(min) 30



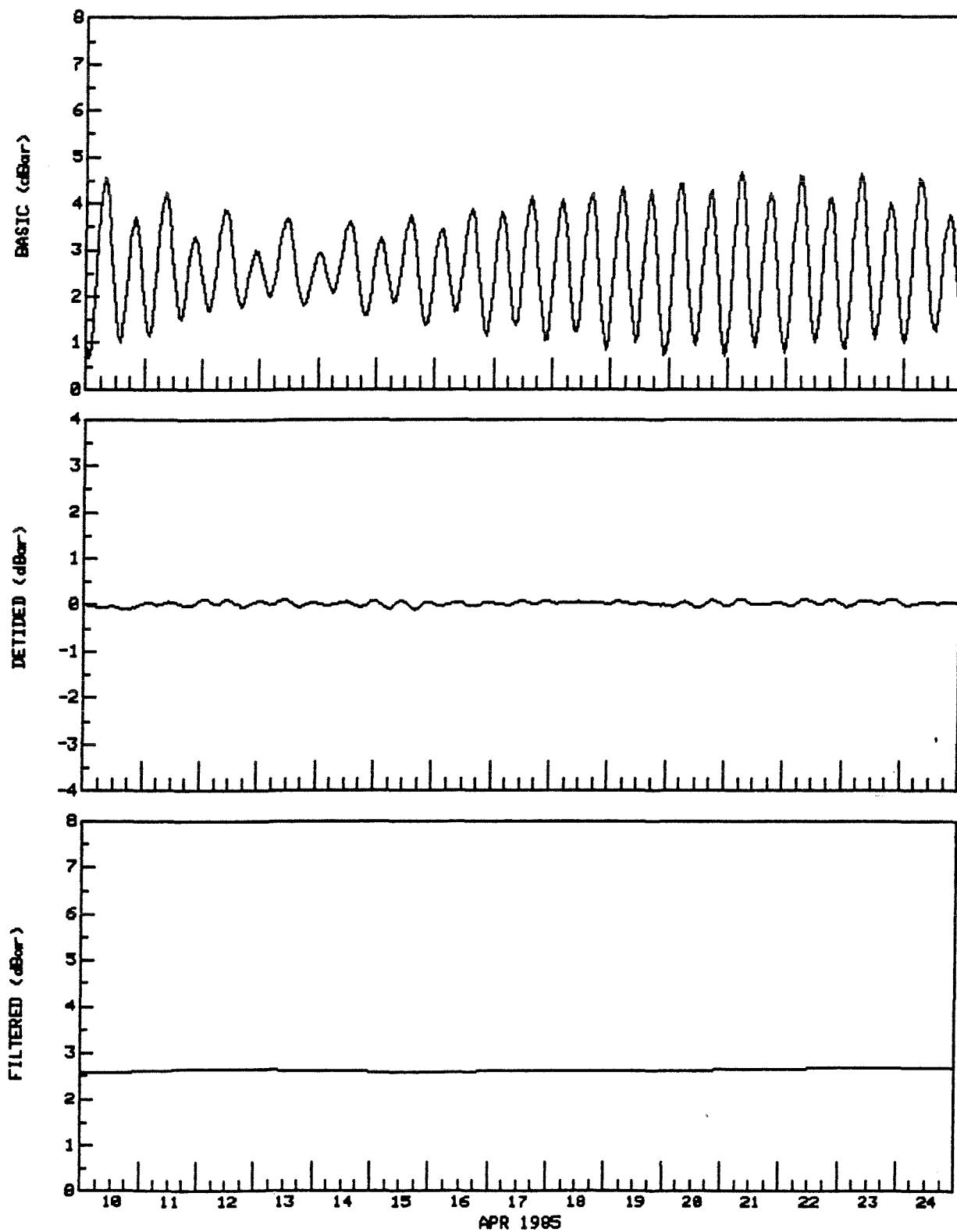
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #28 ALEXANDRA FJORD DEPTH(m) 28 TYPE DESPIKED
78 55' 42"N 75 31' 00"W AANDERAA WLR5 #819 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #28 ALEXANDRA FJORD DEPTH(m) 28 TYPE DESPIKED
78 55' 42"N 75 31' 00"W AANDERAA WLR5 #819 DT(min) 60

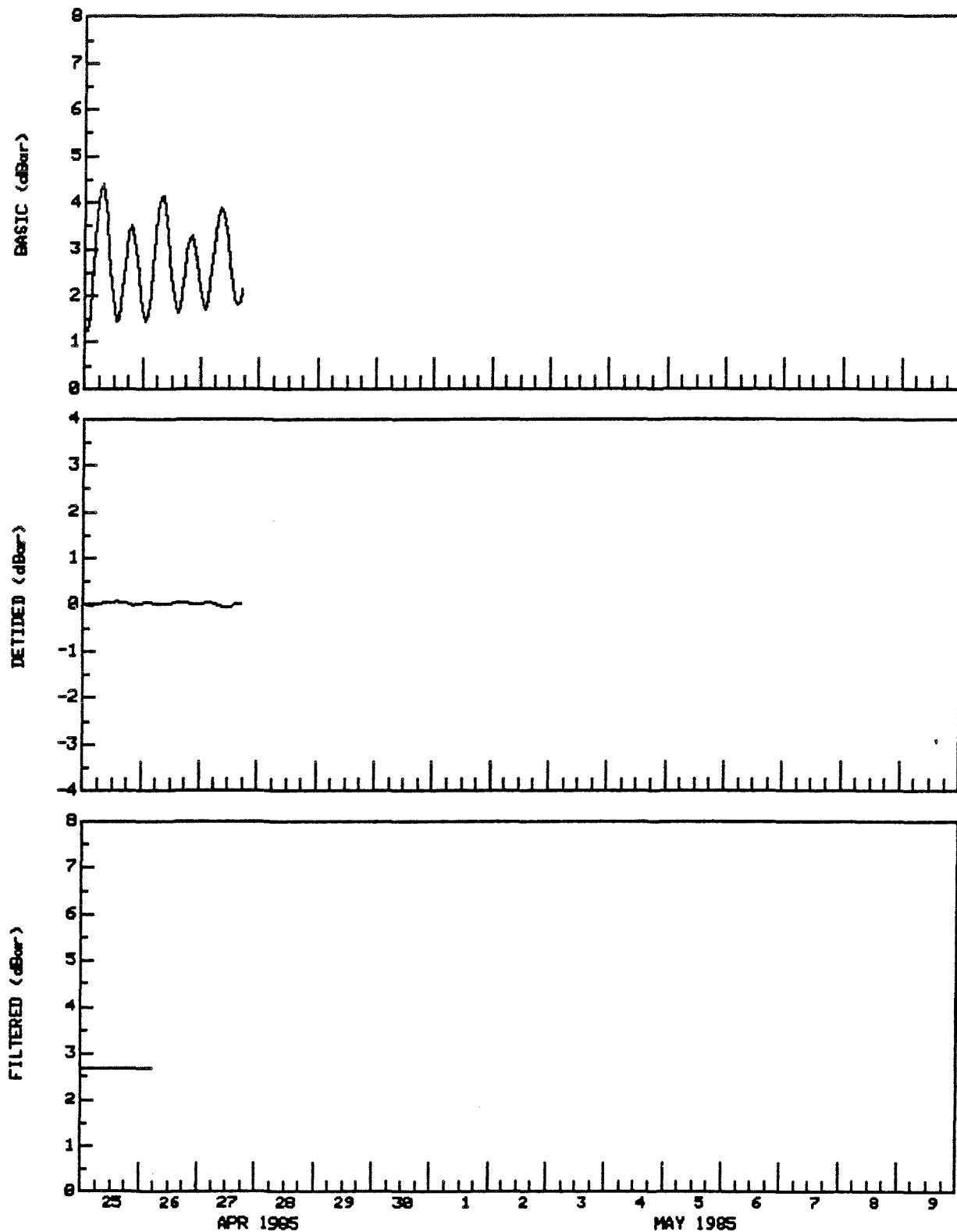


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #28 ALEXANDRA FJORD DEPTH(m) 28 TYPE DESPIKED
78 55' 42"N 75 31' 00"W AANDERAA WLR5 #819 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #28 ALEXANDRA FJORD DEPTH(m) 28 TYPE DESPIKED
78 55' 42"N 75 31' 00"W AANDERAA WLR5 #819 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 29****TIDE GAUGE # 549**

Site # 29: Scoresby Bay

Position: 79°54'42"N 71°19'00"W

Tide Gauge #: Aanderaa WLR5 #549

Date/Time of Deployment: 1985/03/11 17:40

Date/Time of Recovery: 1985/04/29 16:35

Sampling Interval: 30 min

Number of Records on Tape: 2558

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	5.209	2.643	1.083
Detided Pressure	-0.138	0.146	0.000	0.046
Filtered Pressure	2.578	2.699	2.641	0.029

Data Quality: Timing 35 seconds slow

Clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #29 SCORESBY BAY LAT: 79 54 42.0 N
 DEPTH: 22 M LONG: 71 19 0.0 W
 START: 1800Z 11/ 3/85 END: 1600Z 29/ 4/85
 NO.OBS.= 1175 NO.PTS.ANAL.= 1175 MIDPT: 500Z 5/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	-----	-----	---	---
1	Z0	0.00000000	2.6246	0.00
2	MM	0.00151215	0.0151	322.92
3	MSF	0.00282193	0.0109	132.25
4	ALP1	0.03439657	0.0023	305.45
5	ZQ1	0.03570635	0.0074	302.15
6	Q1	0.03721850	0.0058	227.58
7	O1	0.03873065	0.0855	213.19
8	N01	0.04026860	0.0158	240.59
9	P1	0.04155259	0.0811	254.41 INF FR K1
10	K1	0.04178075	0.2457	254.41
11	J1	0.04329290	0.0044	239.65
12	001	0.04483084	0.0054	297.88
13	UPS1	0.04634299	0.0010	311.16
14	EPS2	0.07617730	0.0144	332.58
15	MU2	0.07768947	0.0768	38.75
16	N2	0.07899922	0.2989	87.96
17	M2	0.08051139	1.3534	110.79
18	L2	0.08202356	0.0254	115.92
19	S2	0.08333331	0.5902	155.03
20	K2	0.08356148	0.1593	155.03 INF FR S2
21	ETA2	0.08507365	0.0146	307.95
22	M03	0.11924207	0.0053	332.59
23	M3	0.12076712	0.0135	55.59
24	MK3	0.12229216	0.0024	122.17
25	SK3	0.12511408	0.0070	198.36
26	MN4	0.15951067	0.0011	302.36
27	M4	0.16102278	0.0032	334.69
28	SN4	0.16233259	0.0006	351.23
29	MS4	0.16384470	0.0044	69.51
30	S4	0.16666669	0.0011	147.68
31	2MK5	0.20280355	0.0010	279.76
32	2SK5	0.20844740	0.0012	114.73
33	2MN6	0.24002206	0.0008	15.41
34	M6	0.24153417	0.0012	116.09
35	2MS6	0.24435616	0.0011	152.74
36	2SM6	0.24717808	0.0006	236.55
37	3MK7	0.28331494	0.0002	255.75
38	M8	0.32204562	0.0004	337.62

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #29 SCORESBY BAY

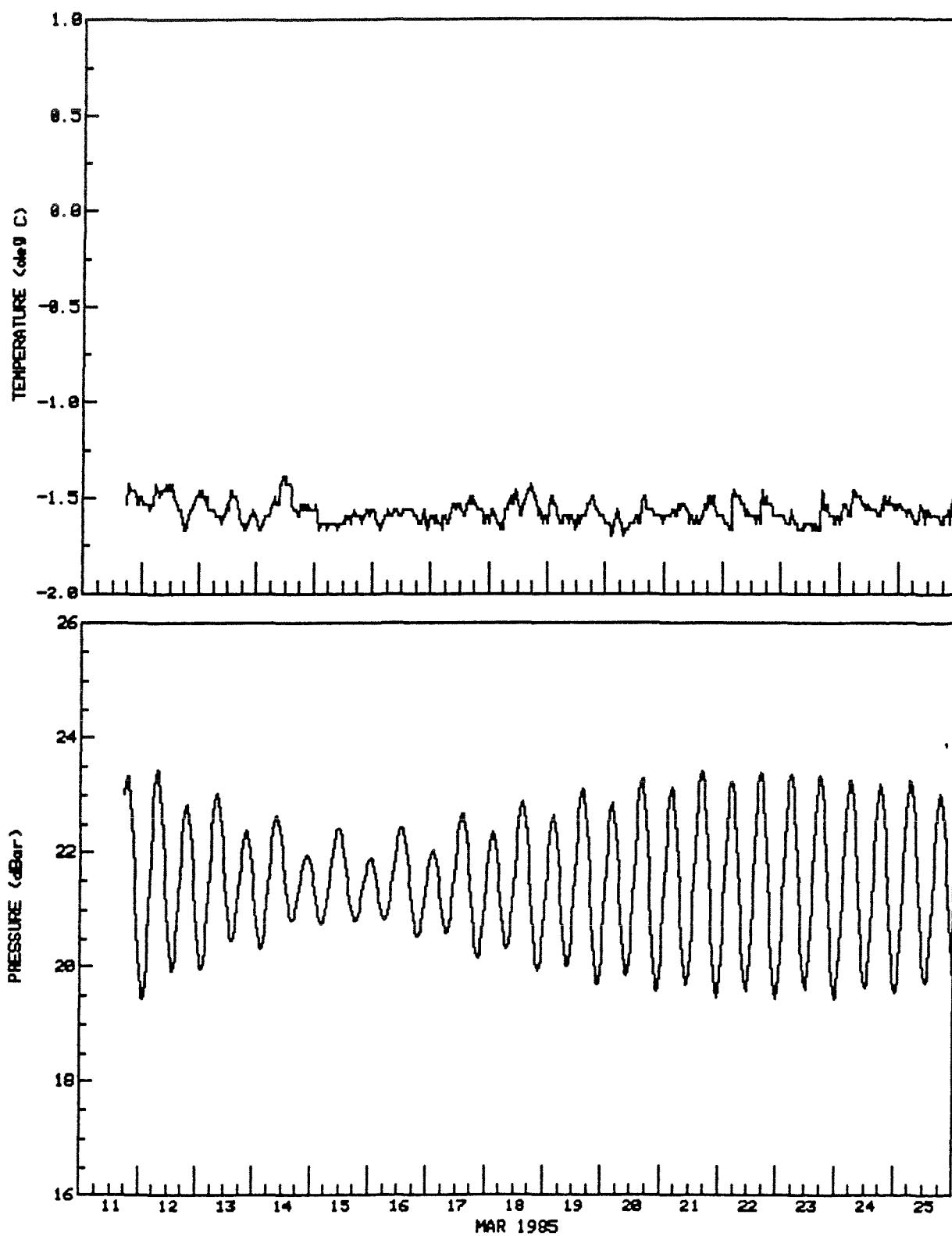
79 54' 42"N 71 19' 00"W

DEPTH(m) 22

AANDERAA WLR5 #549

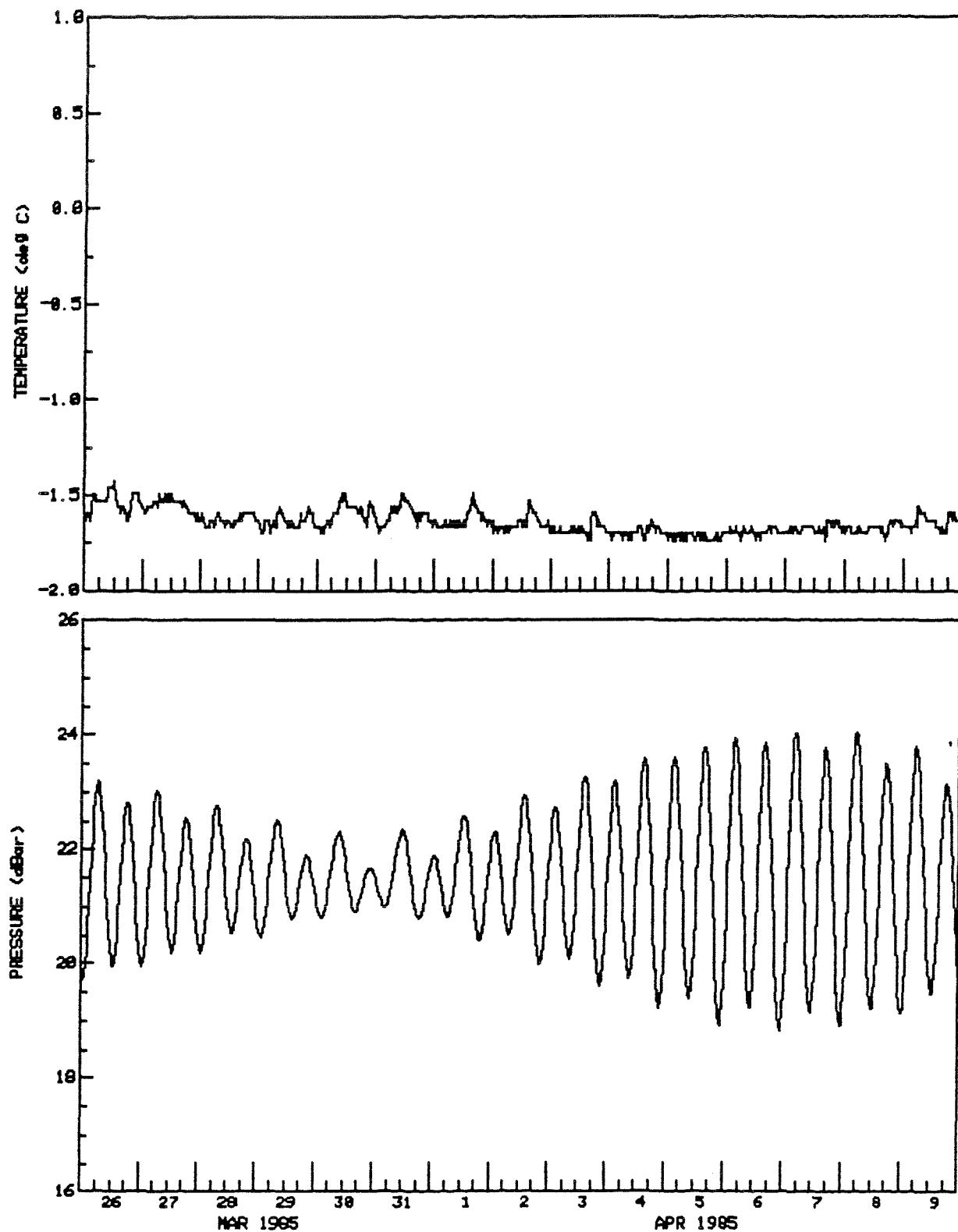
TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #29 SCORESBY BAY DEPTH(m) 22 TYPE DESPIKED
79 54' 42"N 71 19' 00"W AANDERAA WLR5 #549 DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #29 SCORESBY BAY

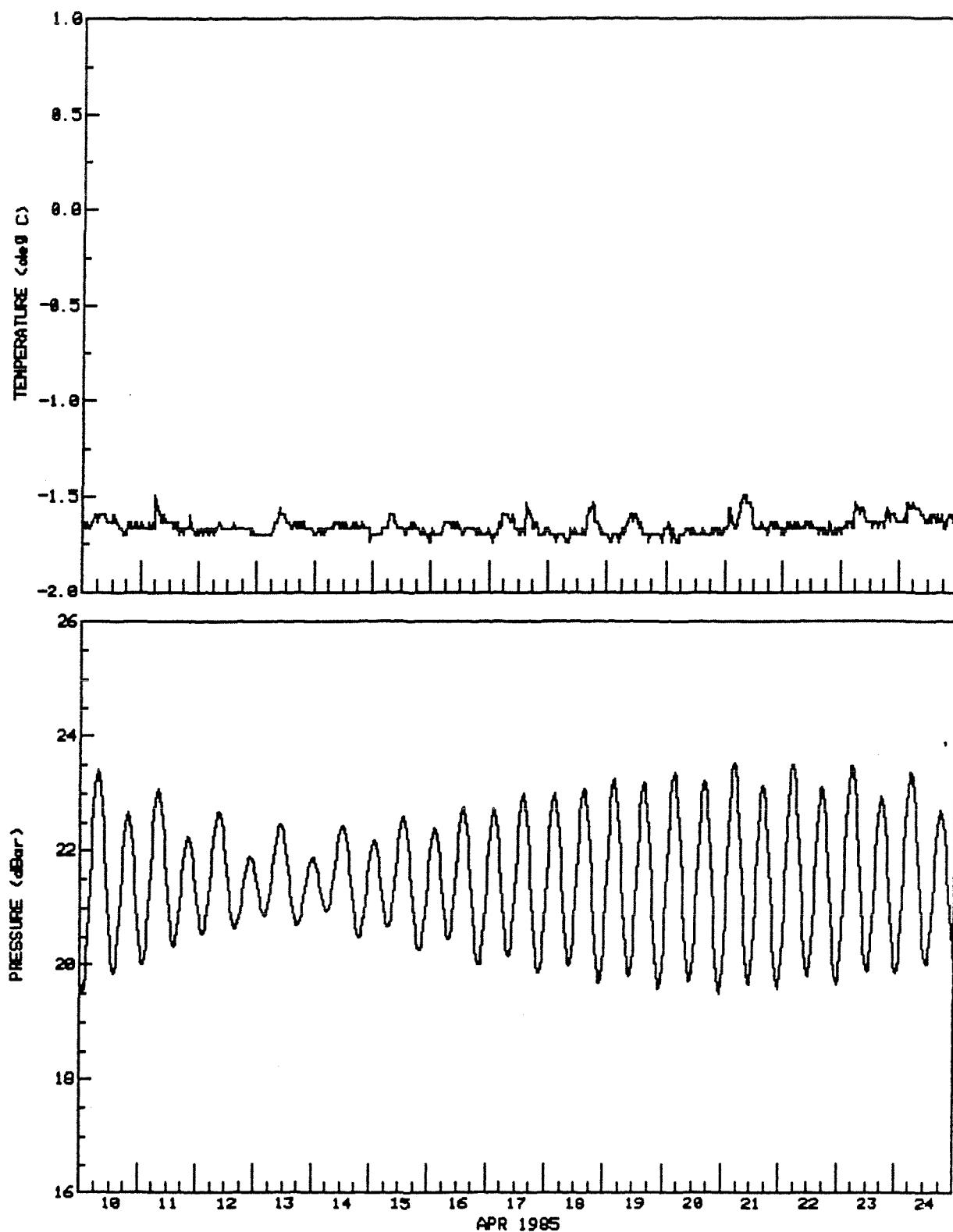
DEPTH(m) 22

TYPE DESPIKED

79 54' 42"N 71 19' 00"W

AANDERAA WLR5 #549

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #29 SCORESBY BAY

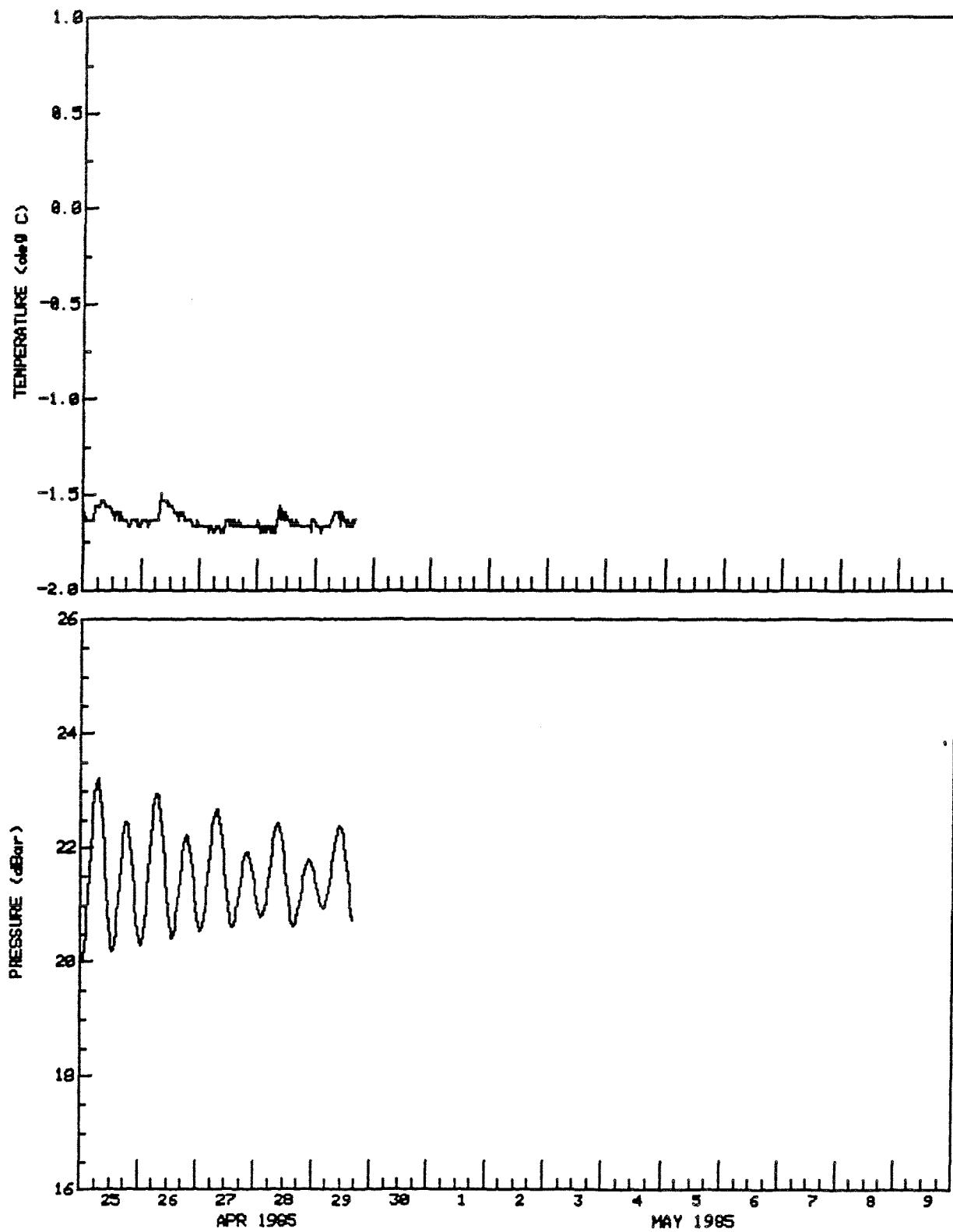
DEPTH(m) 22

TYPE DESPIKED

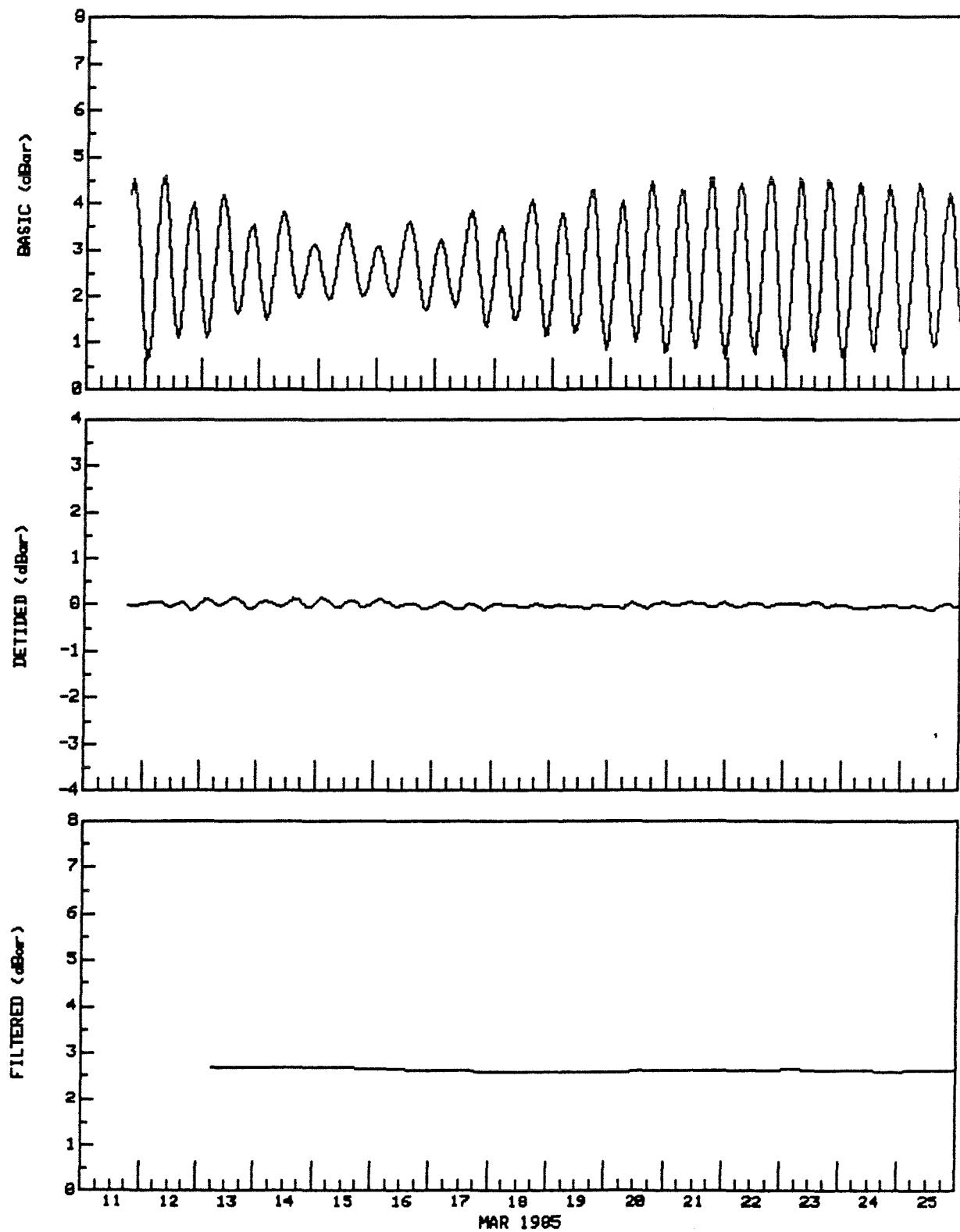
79 54' 42"N 71 19' 00"W

AANDERAA WLR5 #549

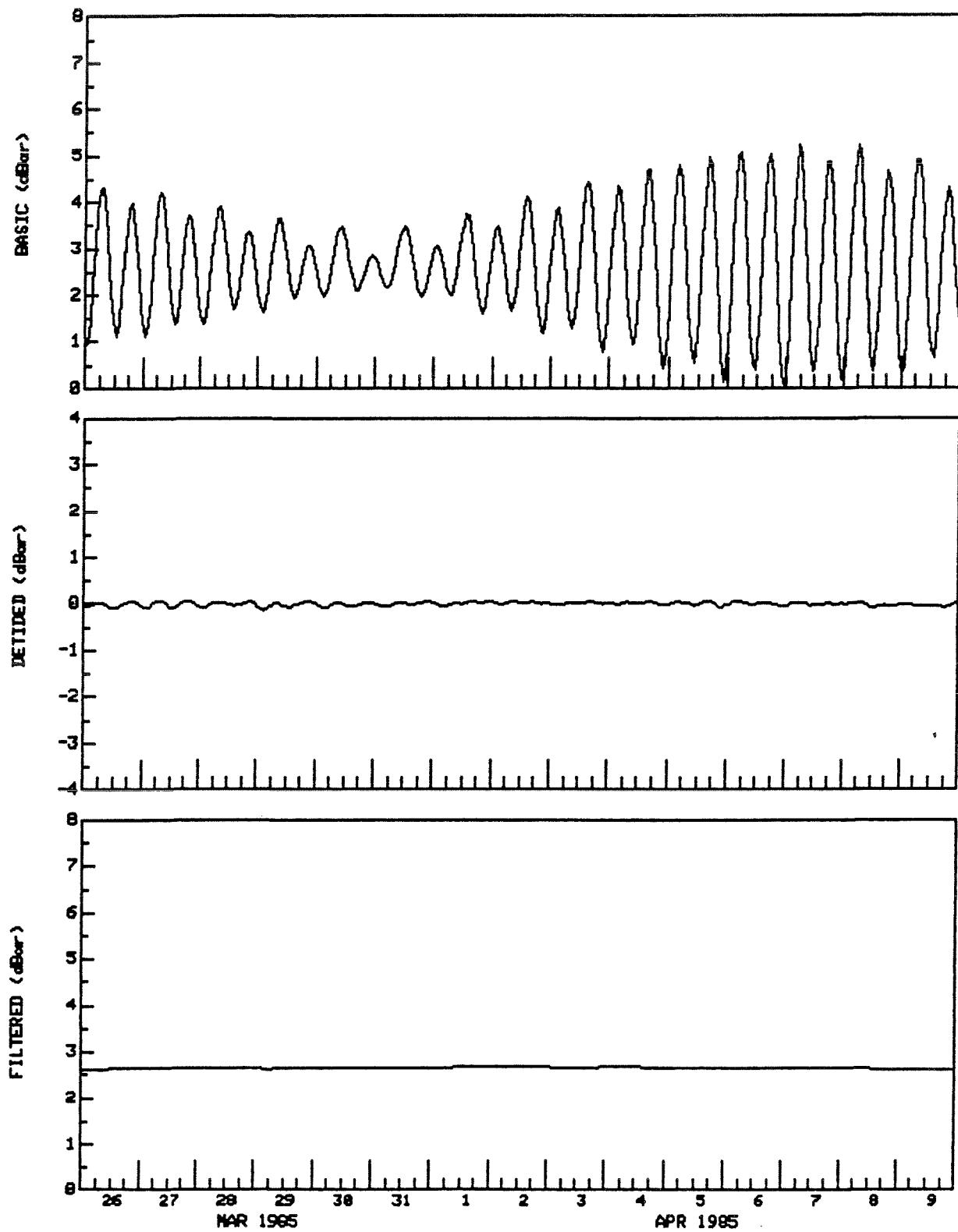
DT(min) 30



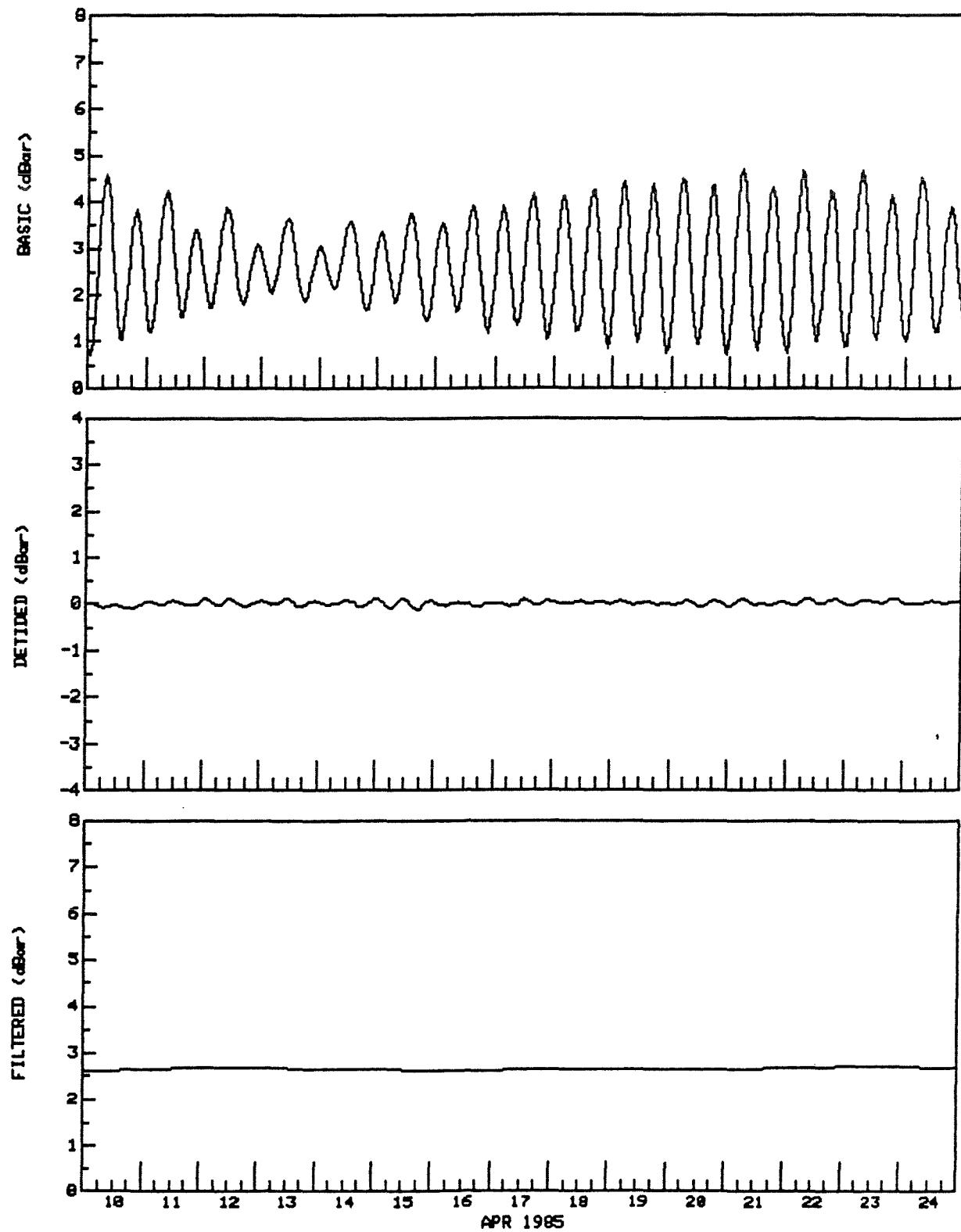
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #29 SCORESBY BAY DEPTH(m) 22 TYPE DESPIKED
79 54' 42"N 71 19' 00"W AANDERAA WLR5 #549 DT(min) 60



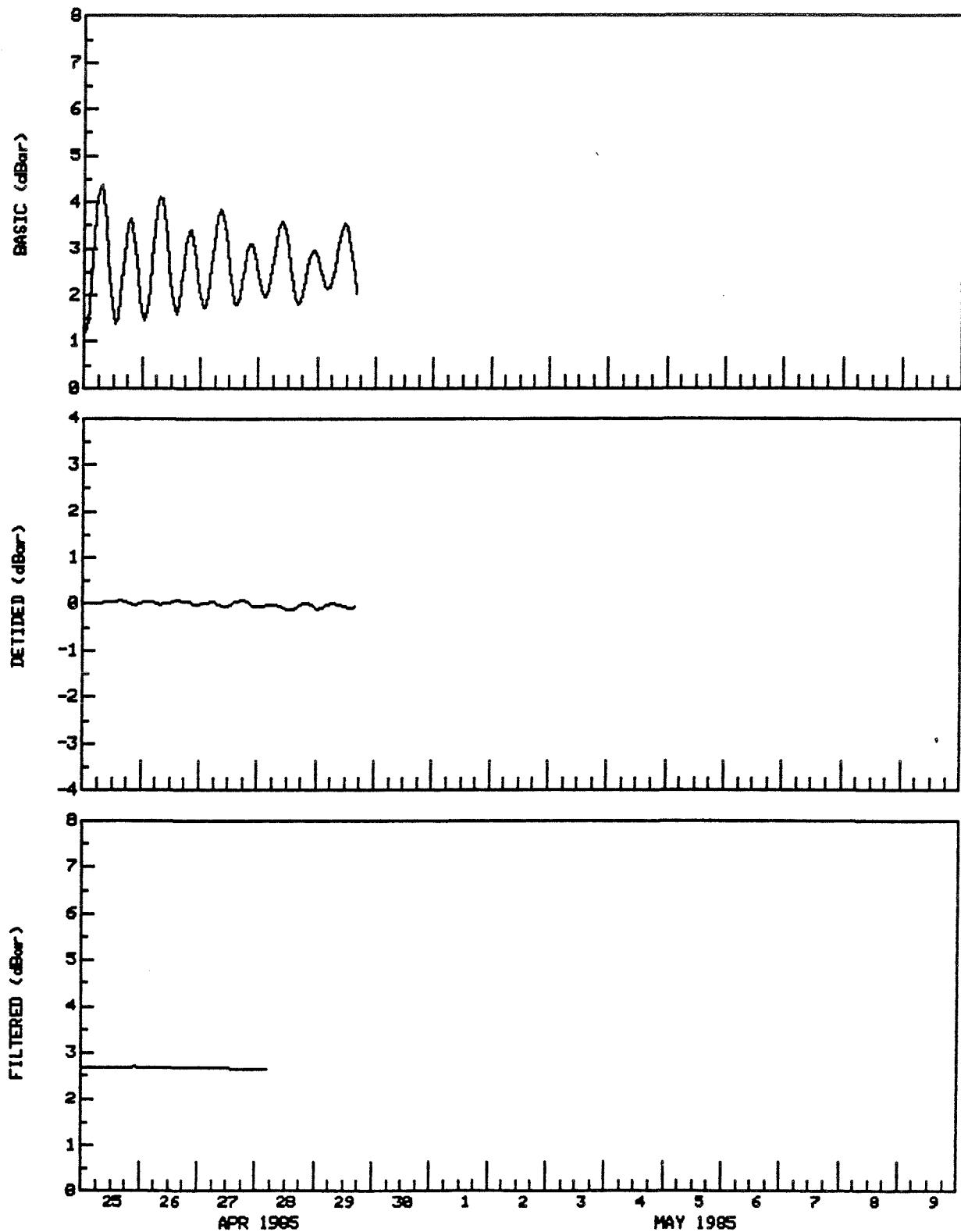
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #29 SCORESBY BAY DEPTH(m) 22 TYPE DESPIKED
79 54' 42"N 71 19' 00"W AANDERAA WLR5 #549 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #29 SCORESBY BAY DEPTH(m) 22 TYPE DESPIKED
79 54' 42"N 71 19' 00"W AANDERAA WLR5 #549 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #29 SCORESBY BAY DEPTH(m) 22 TYPE DESPIKED
79 54' 42"N 71 19' 00"W AANDERAA WLR5 #549 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS

SITE # 30

TIDE GAUGE # 547

Site # 30: Nygaard Bay

Position: 80°01'48"N 65°28'18"W

Tide Gauge #: Aanderaa WLR5 #547

Date/Time of Deployment: 1985/03/11 16:04

Date/Time of Recovery: 1985/04/27 19:17

Sampling Interval: 30 min

Number of Records on Tape: 2448

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	5.472	2.798	1.156
Detided Pressure	-0.708	0.578	-0.002	0.146
Filtered Pressure	2.662	2.885	2.802	0.049

Data Quality: Timing 3 minutes 14 seconds fast

Shifted - 4 hrs 53 min to correct timeshift near start-up.

Clean pressure record

No temperature channel

Data Processing Sequence:

Removed bad timing data at the beginning, normal sequence subsequently

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #30 NYGAARD BAY LAT: 80 1 48.0 N
 DEPTH: 45 M LONG: 65 28 18.0 W
 START: 2000Z 12/ 3/85 END: 1800Z 27/ 4/85
 NO.OBS.= 1103 NO.PTS.ANAL.= 1103 MIDPT: 1900Z 4/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	2.7890	0.00
2	MM	0.00151215	0.0390	296.04
3	MSF	0.00282193	0.0142	157.62
4	ALP1	0.03439657	0.0039	84.68
5	2Q1	0.03570635	0.0098	311.87
6	Q1	0.03721850	0.0099	302.34
7	O1	0.03873065	0.1126	241.90
8	N01	0.04026860	0.0162	248.98
9	P1	0.04155259	0.1010	277.78 INF FR K1
10	K1	0.04178075	0.3060	277.78
11	J1	0.04329290	0.0067	306.57
12	001	0.04483084	0.0097	291.57
13	UPS1	0.04634299	0.0062	305.45
14	EPS2	0.07617730	0.0152	343.69
15	MU2	0.07768947	0.0818	55.86
16	N2	0.07899922	0.3115	98.07
17	M2	0.08051139	1.4140	120.19
18	L2	0.08202356	0.0350	118.64
19	S2	0.08333331	0.6139	163.64
20	K2	0.08356148	0.1658	163.64 INF FR S2
21	ETA2	0.08507365	0.0127	311.90
22	M03	0.11924207	0.0029	306.40
23	M3	0.12076712	0.0173	70.60
24	MK3	0.12229216	0.0010	155.26
25	SK3	0.12511408	0.0075	222.52
26	MN4	0.15951067	0.0013	26.85
27	M4	0.16102278	0.0024	79.64
28	SN4	0.16233259	0.0027	352.31
29	MS4	0.16384470	0.0062	88.75
30	S4	0.16666669	0.0017	109.49
31	2MK5	0.20280355	0.0008	248.61
32	2SK5	0.20844740	0.0021	164.27
33	2MN6	0.24002206	0.0017	48.82
34	M6	0.24153417	0.0023	96.32
35	2MS6	0.24435616	0.0029	171.49
36	2SM6	0.24717808	0.0017	232.46
37	3MK7	0.28331494	0.0003	271.83
38	M8	0.32204562	0.0018	82.86

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #30 NYGAARD BAY

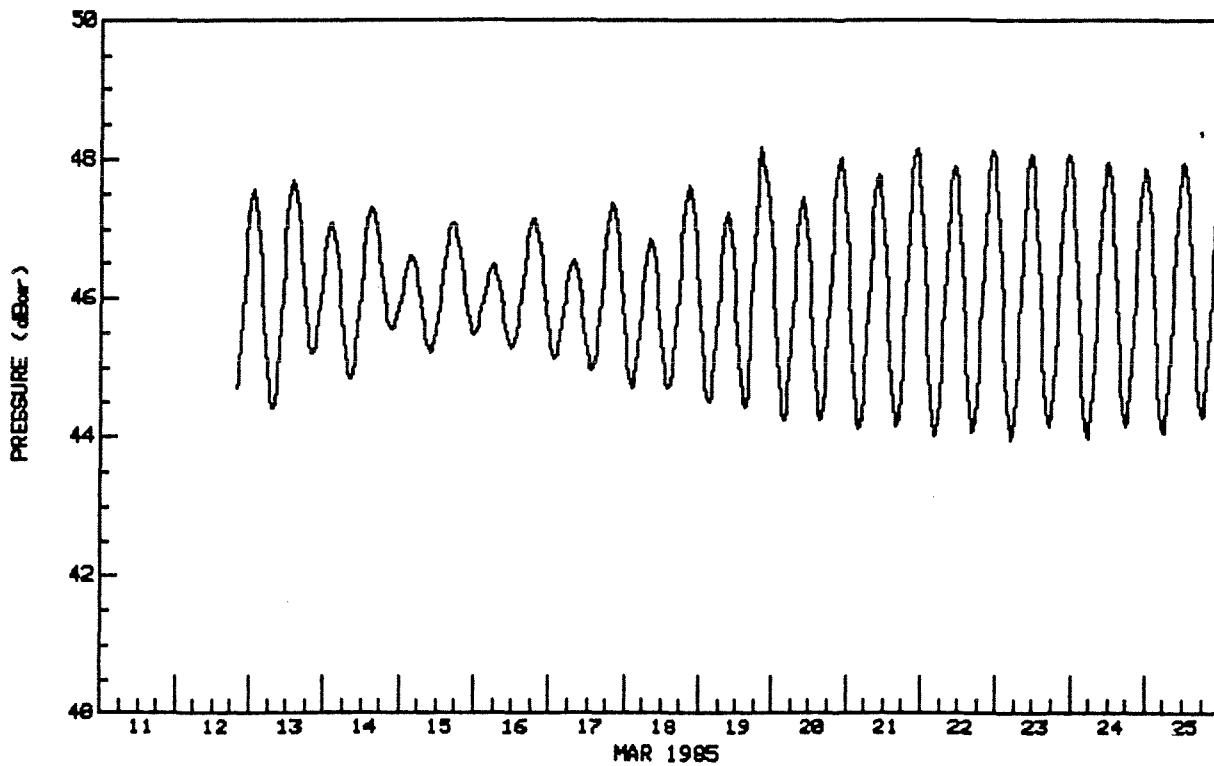
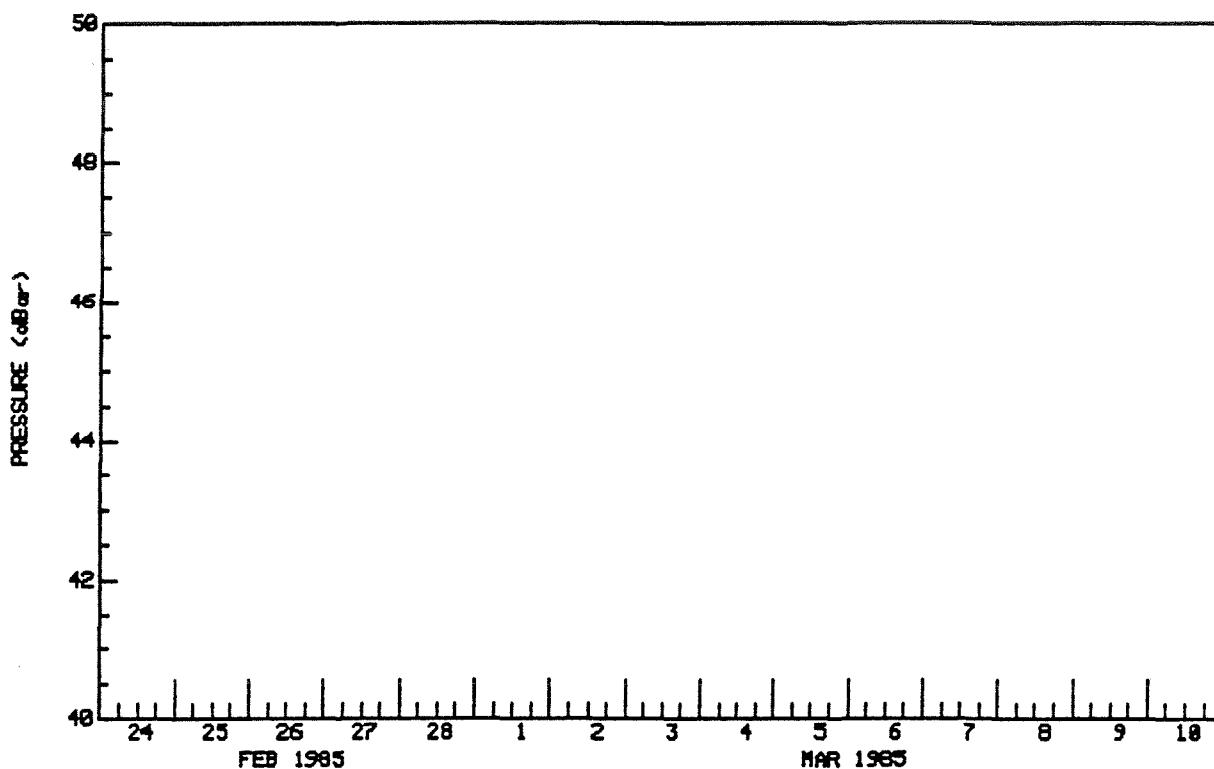
80 01' 48"N 65 28' 18"W

DEPTH(m) 46

AANDERAA WLR5 #547

TYPE DESPIKED

DT(min) 30

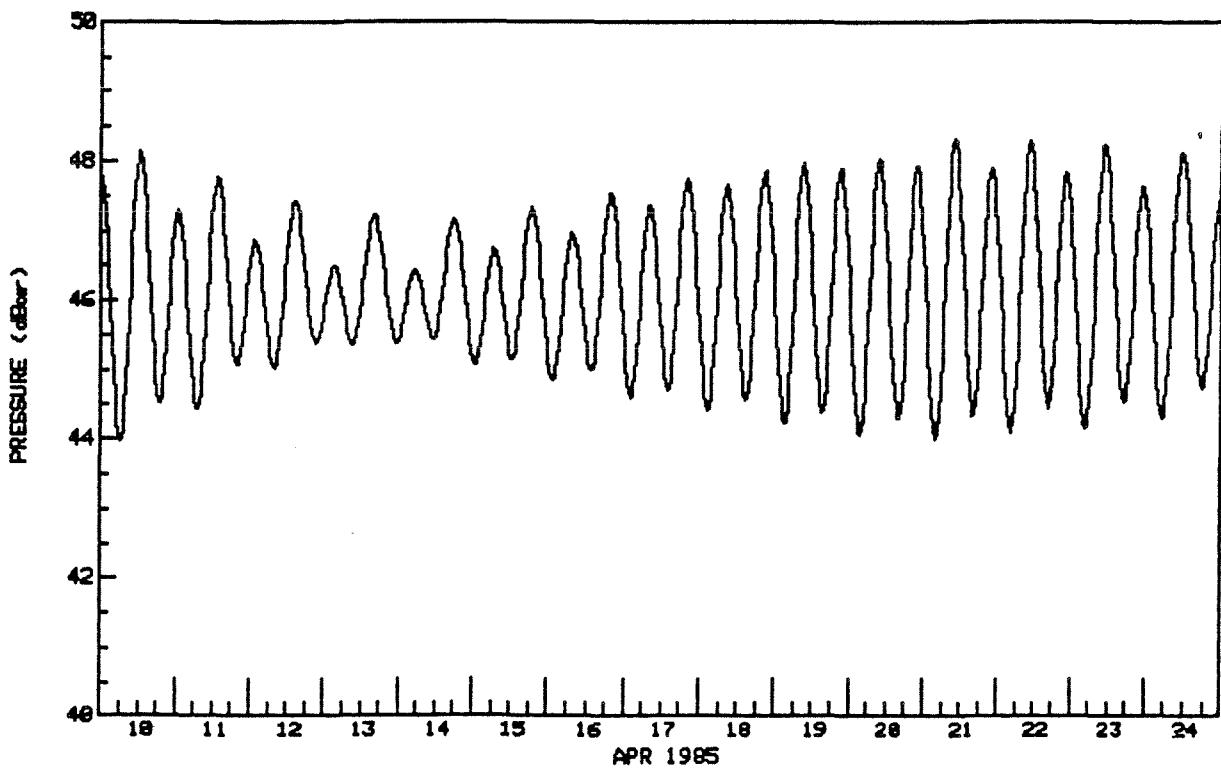
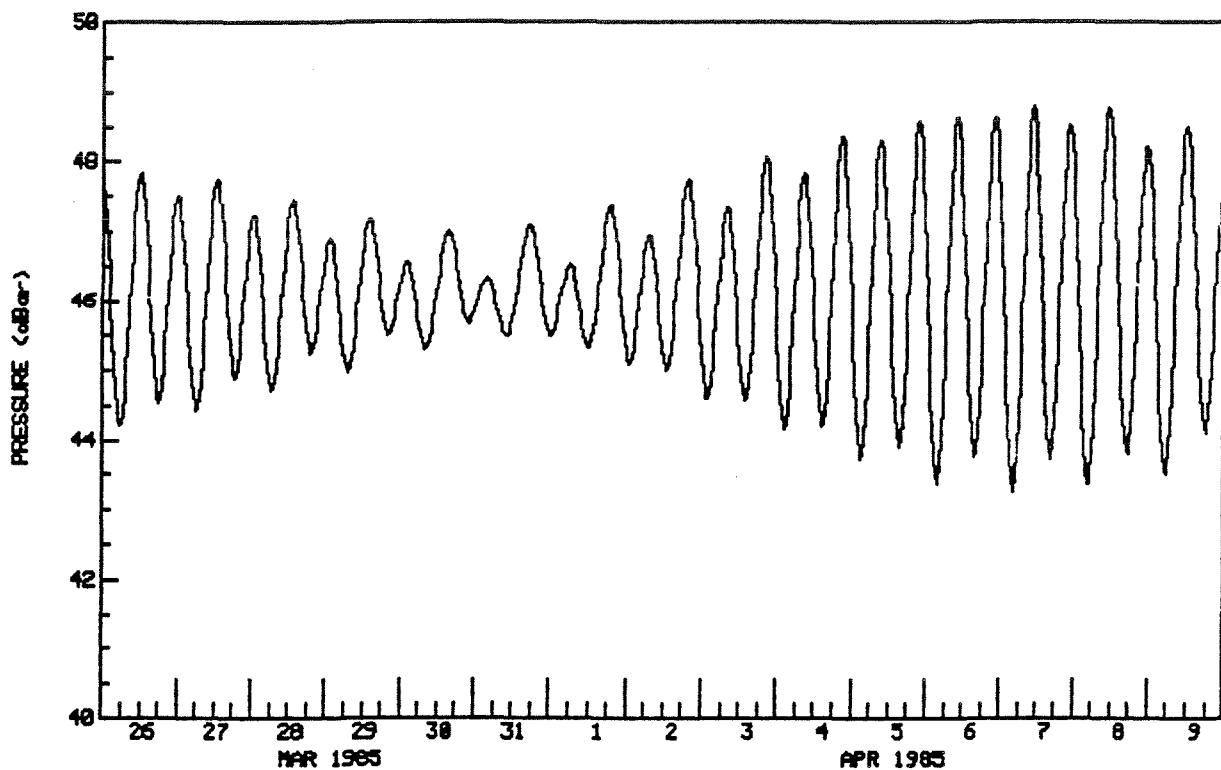


EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #30 NYGAARD BAY
80 01' 48"N 65 28' 18"W

DEPTH(m) 46
AANDERAA WLR5 #547

TYPE DESPIKED
DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #30 NYGAARD BAY

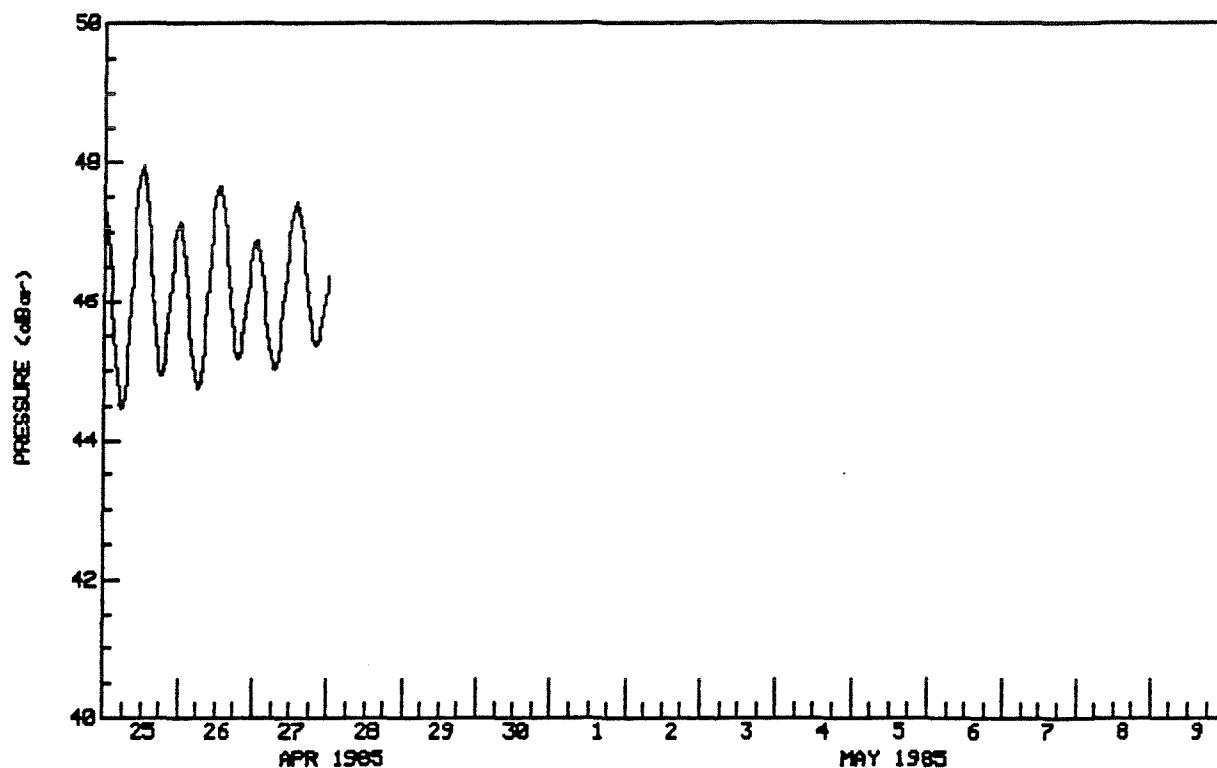
DEPTH(m) 46

TYPE DESPIKED

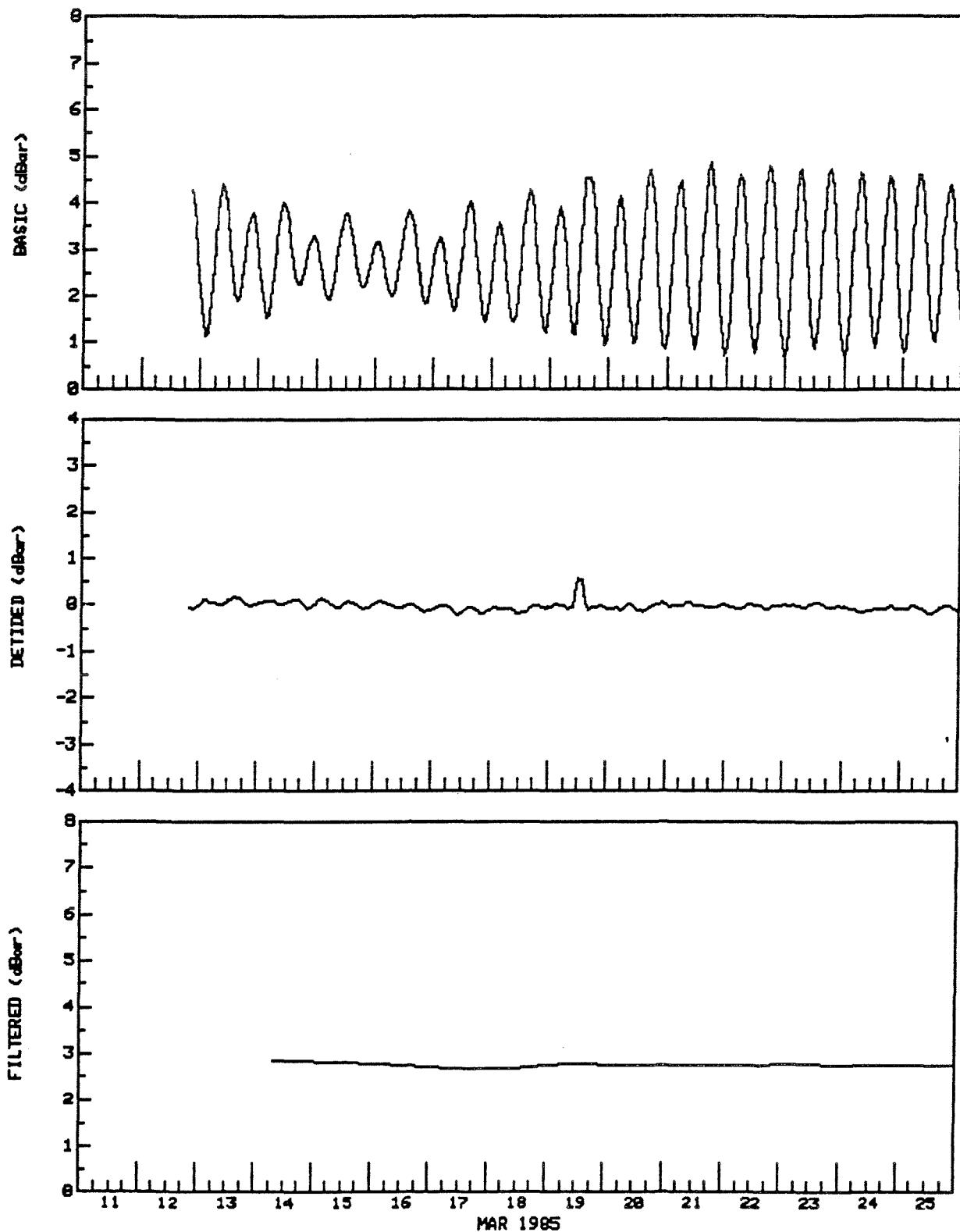
80 01' 48"N 65 28' 18"W

AANDERAA WLR5 #547

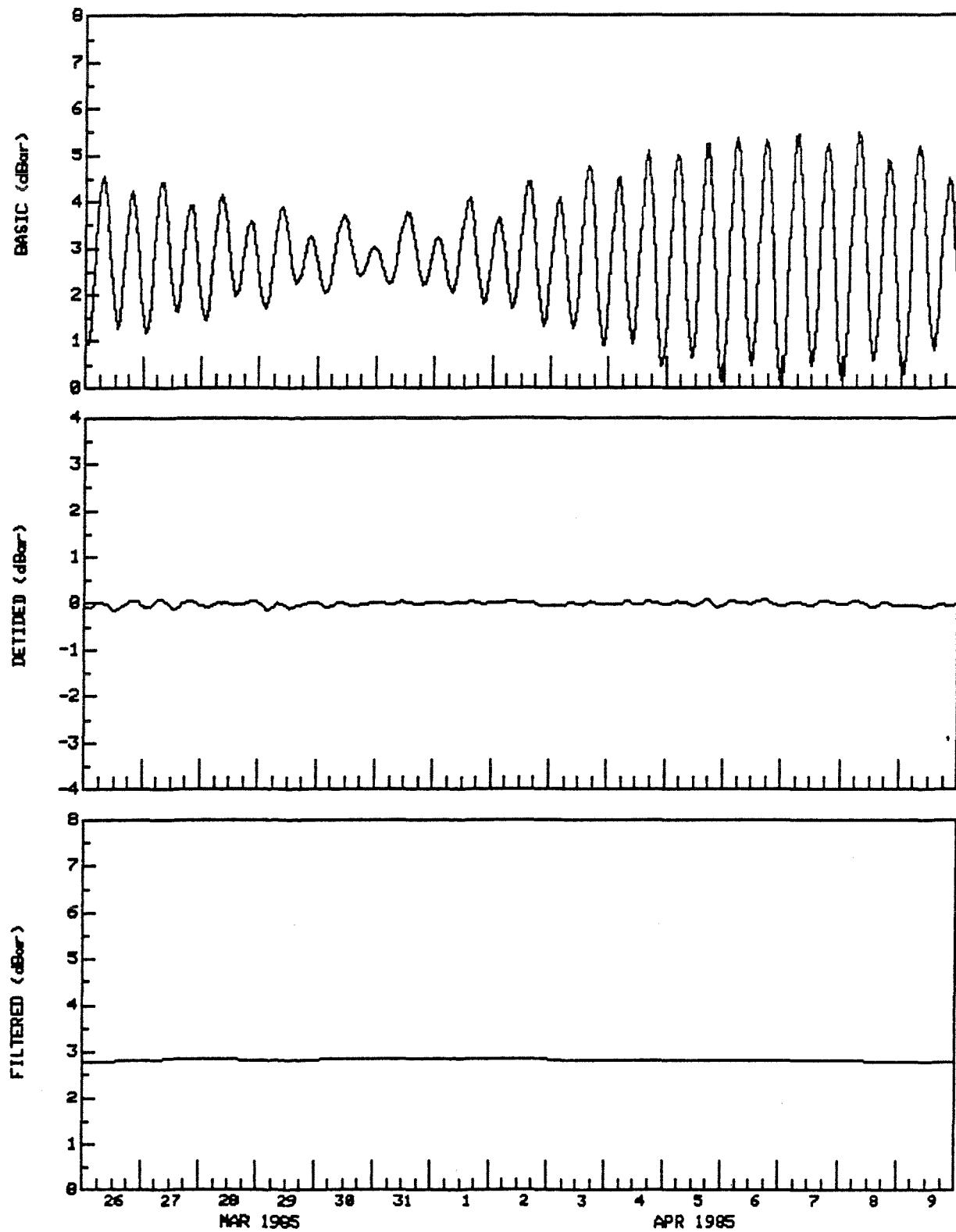
DT(min) 30



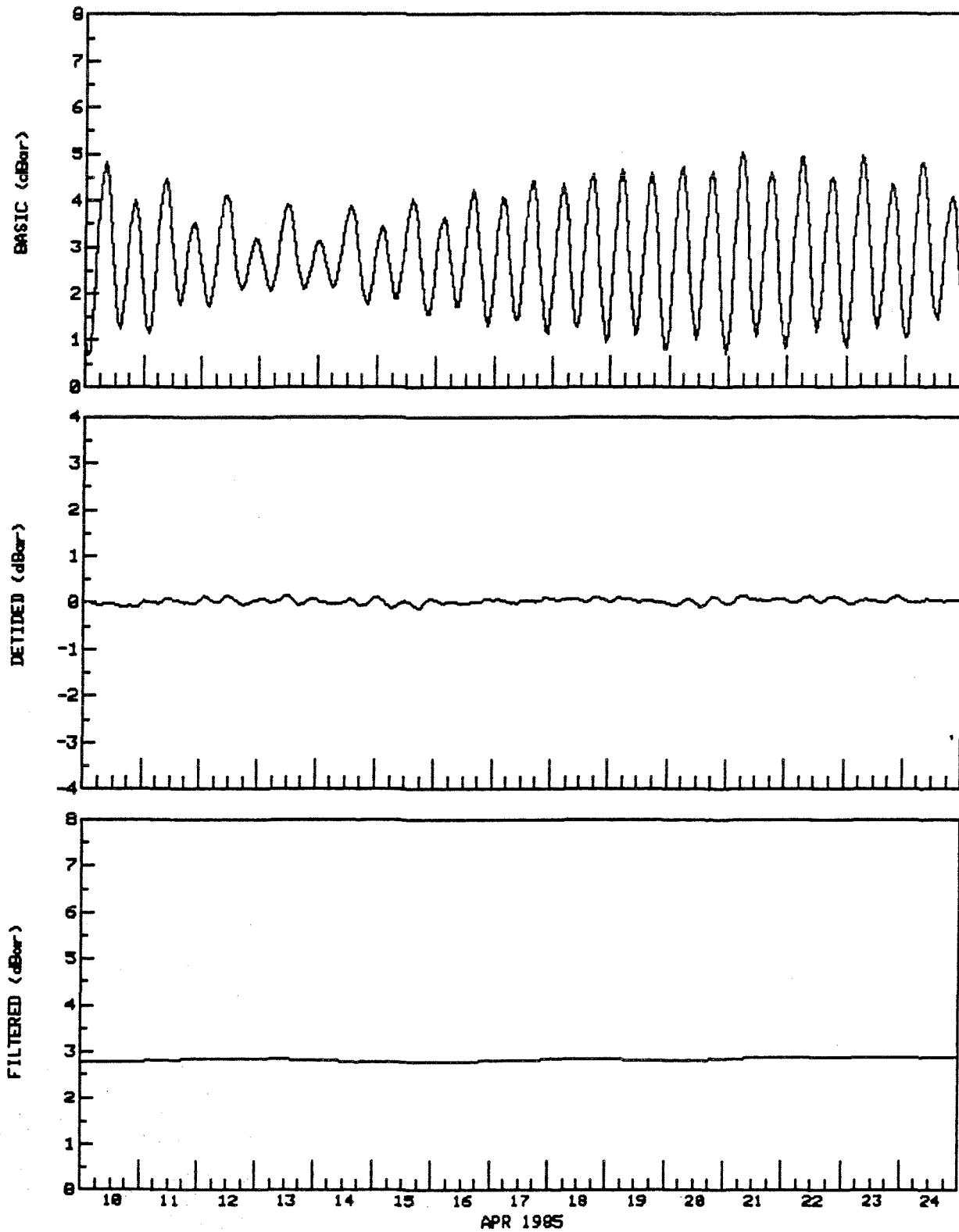
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #30 NYGAARD BAY DEPTH(m) 46 TYPE DESPIKED
80 01' 48"N 65 28' 18"W AANDERAA WLR5 #547 DT(min) 60



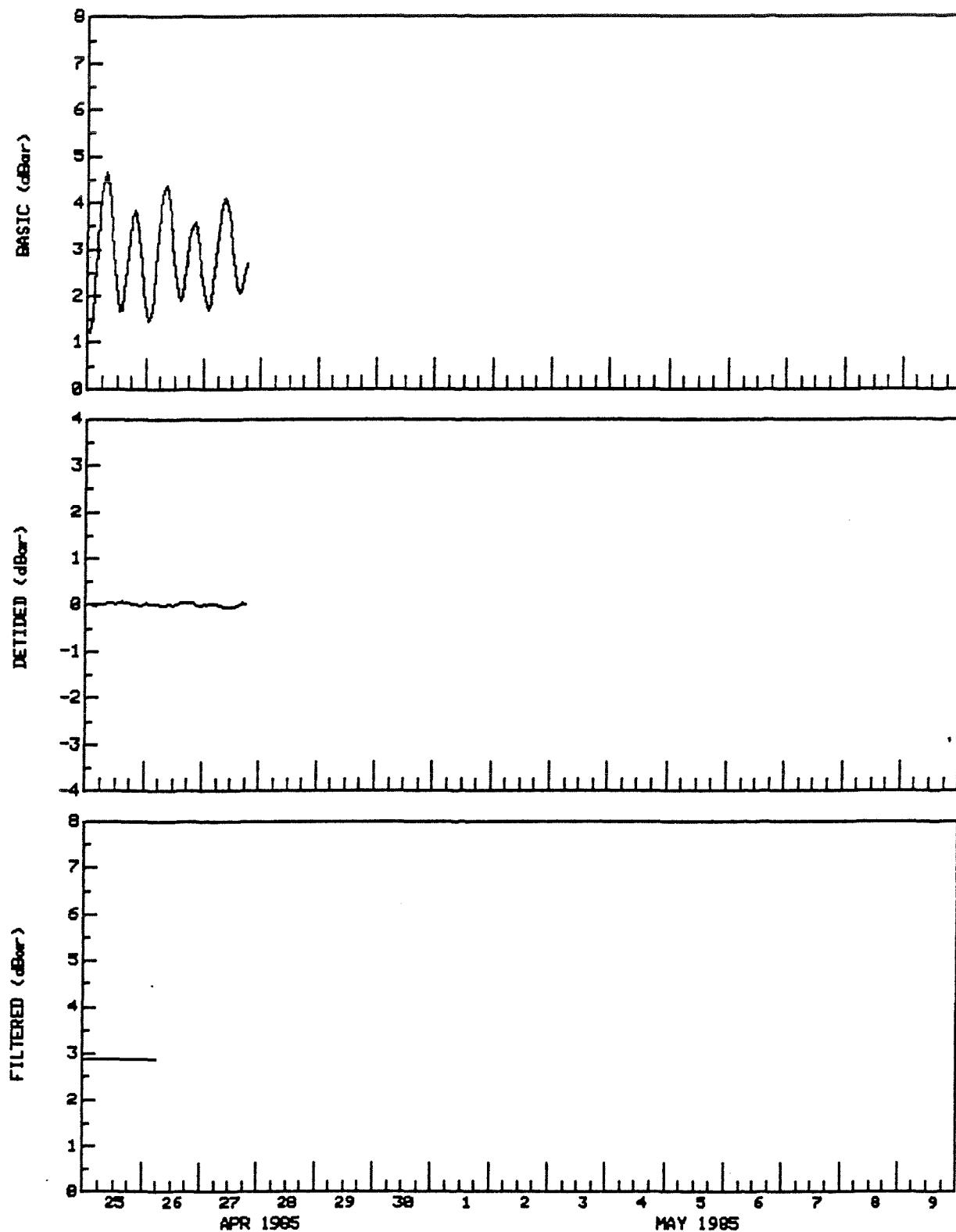
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #30 NYGAARD BAY DEPTH(m) 46 TYPE DESPIKED
80 01' 48"N 65 28' 18"W AANDERAA WLR5 #547 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #30 NYGAARD BAY DEPTH(m) 46 TYPE DESPIKED
80 01' 48"N 65 28' 18"W AANDERAA WLR5 #547 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #30 NYGAARD BAY DEPTH(m) 46 TYPE DESPIKED
80 01' 48"N 65 28' 18"W AANDERAA WLR5 #547 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 31****TIDE GAUGE # 597**

Site # 31: Cape Field

Position: 81°06'42"N 64°12'30"W

Tide Gauge #: Aanderaa WLR5 #597

Date/Time of Deployment: 1985/03/10 19:01

Date/Time of Recovery: 1985/04/27 20:16

Sampling Interval: 30 min

Number of Records on Tape: 2443

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	2.950	1.524	0.624
Detided Pressure	-0.118	0.142	0.002	0.043
Filtered Pressure	1.437	1.599	1.522	0.040

Data Quality: Timing 9 seconds fast

Clean record

No temperature calibration

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #31 CAPE FIELD LAT: 81 6 42.0 N
 DEPTH: 25 M LONG: 64 12 30.0 W
 START: 2000Z 10/ 3/85 END: 2000Z 27/ 4/85
 NO.OBS.= 1153 NO.PTS.ANAL.= 1153 MIDPT: 2000Z 3/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	---
1	Z0	0.00000000	1.5128	0.00
2	MM	0.00151215	0.0299	287.70
3	MSF	0.00282193	0.0140	188.48
4	ALP1	0.03439657	0.0015	357.90
5	2Q1	0.03570635	0.0071	3.43
6	Q1	0.03721850	0.0058	335.50
7	01	0.03873065	0.0515	268.24
8	N01	0.04026860	0.0084	280.70
9	P1	0.04155259	0.0502	295.04 INF FR K1
10	K1	0.04178075	0.1522	295.04
11	J1	0.04329290	0.0050	314.83
12	001	0.04483084	0.0043	324.04
13	UPS1	0.04634299	0.0022	326.85
14	EPS2	0.07617730	0.0090	337.60
15	MU2	0.07768947	0.0449	47.36
16	N2	0.07899922	0.1689	94.20
17	M2	0.08051139	0.7594	116.12
18	L2	0.08202356	0.0149	116.40
19	S2	0.08333331	0.3453	159.92
20	K2	0.08356148	0.0932	159.92 INF FR S2
21	ETA2	0.08507365	0.0097	295.19
22	M03	0.11924207	0.0039	3.83
23	M3	0.12076712	0.0094	73.21
24	MK3	0.12229216	0.0008	143.40
25	SK3	0.12511408	0.0049	188.52
26	MN4	0.15951067	0.0039	230.13
27	M4	0.16102278	0.0087	259.68
28	SN4	0.16233259	0.0007	203.56
29	MS4	0.16384470	0.0055	323.42
30	S4	0.16666669	0.0017	323.54
31	2MK5	0.20280355	0.0015	18.58
32	2SK5	0.20844740	0.0012	213.81
33	2MN6	0.24002206	0.0008	85.98
34	M6	0.24153417	0.0008	136.80
35	2MS6	0.24435616	0.0019	309.54
36	2SM6	0.24717808	0.0018	353.04
37	3MK7	0.28331494	0.0002	329.84
38	M8	0.32204562	0.0004	141.65

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #31 CAPE FIELD

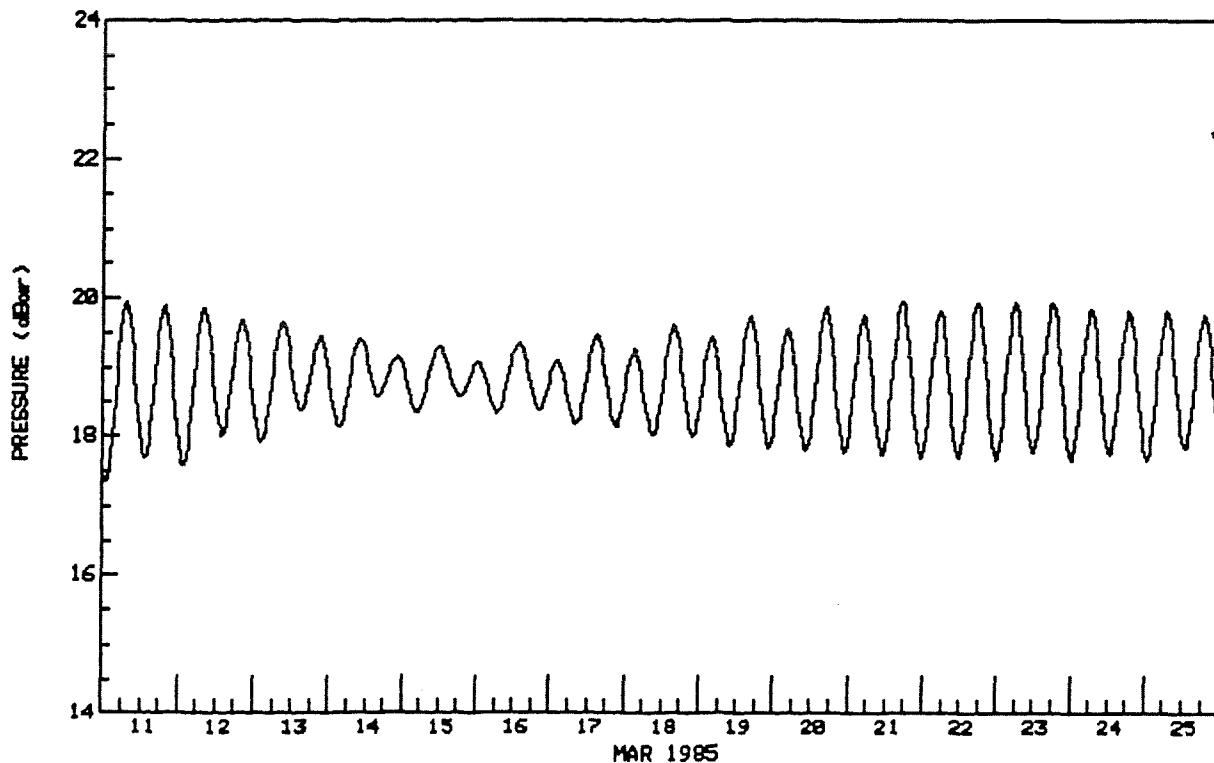
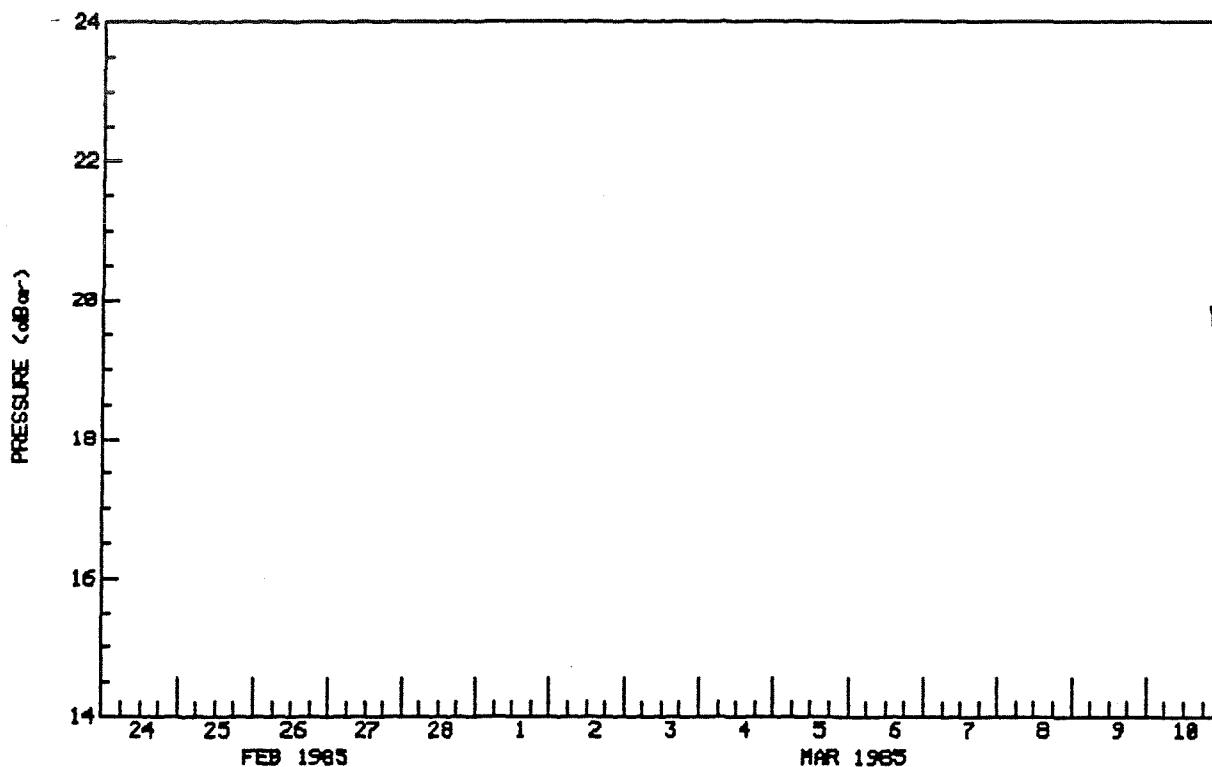
81 06' 42"N 64 12' 30"W

DEPTH(m) 19

AANDERAA WLR5 #597

TYPE DESPIKED

DT(min) 30

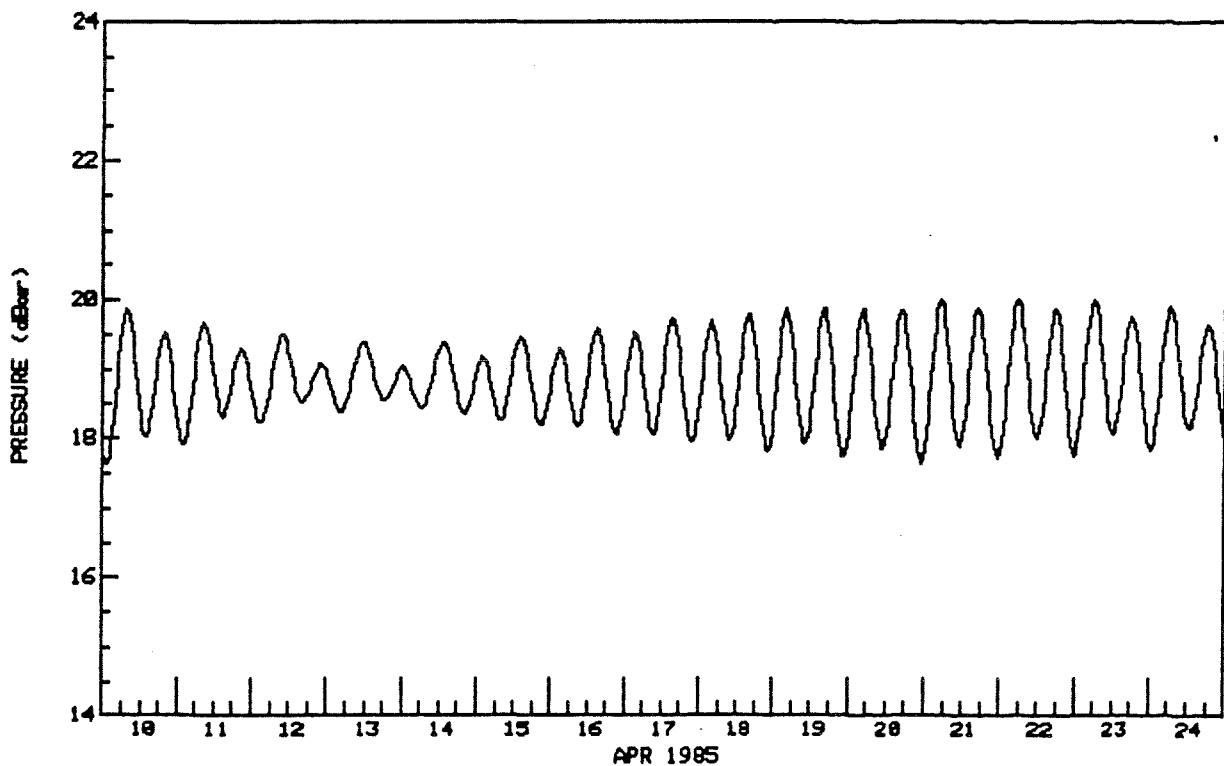
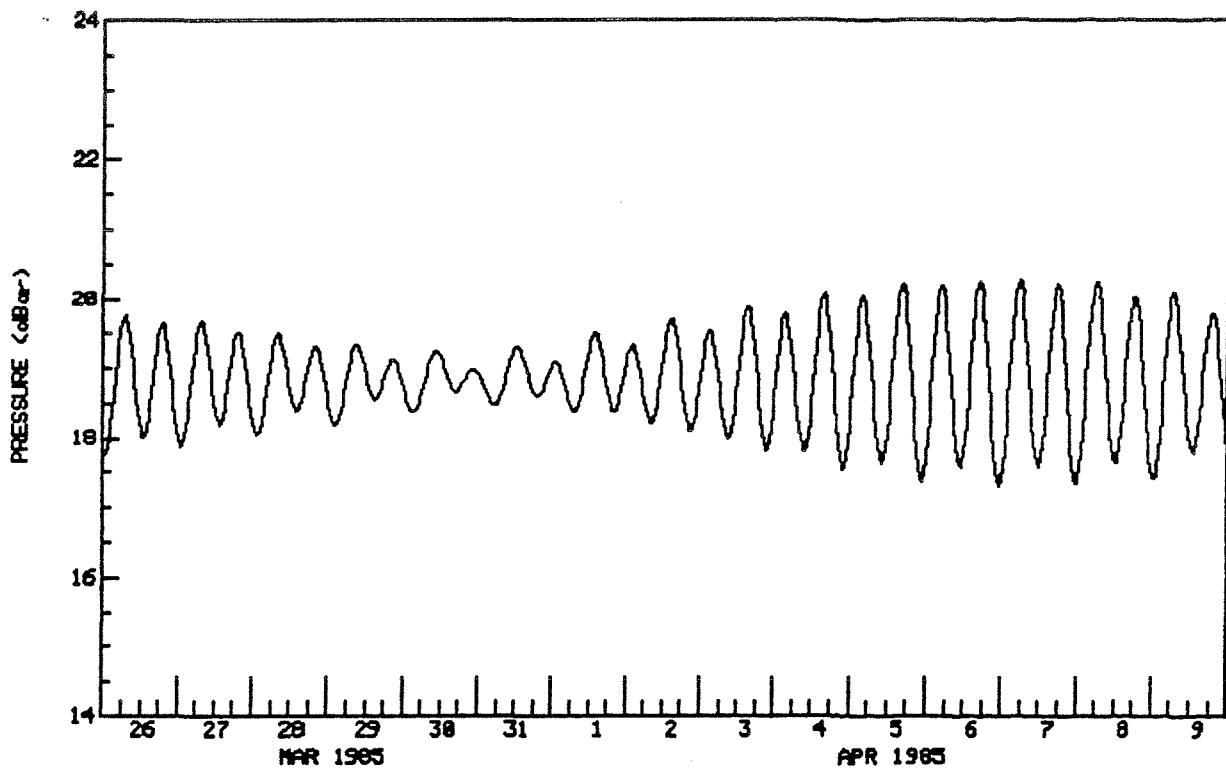


EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #31 CAPE FIELD
81 06' 42"N 64 12' 30"W

DEPTH(m) 19
AANDERAA WLR5 #597

TYPE DESPIKED
DT(min) 30

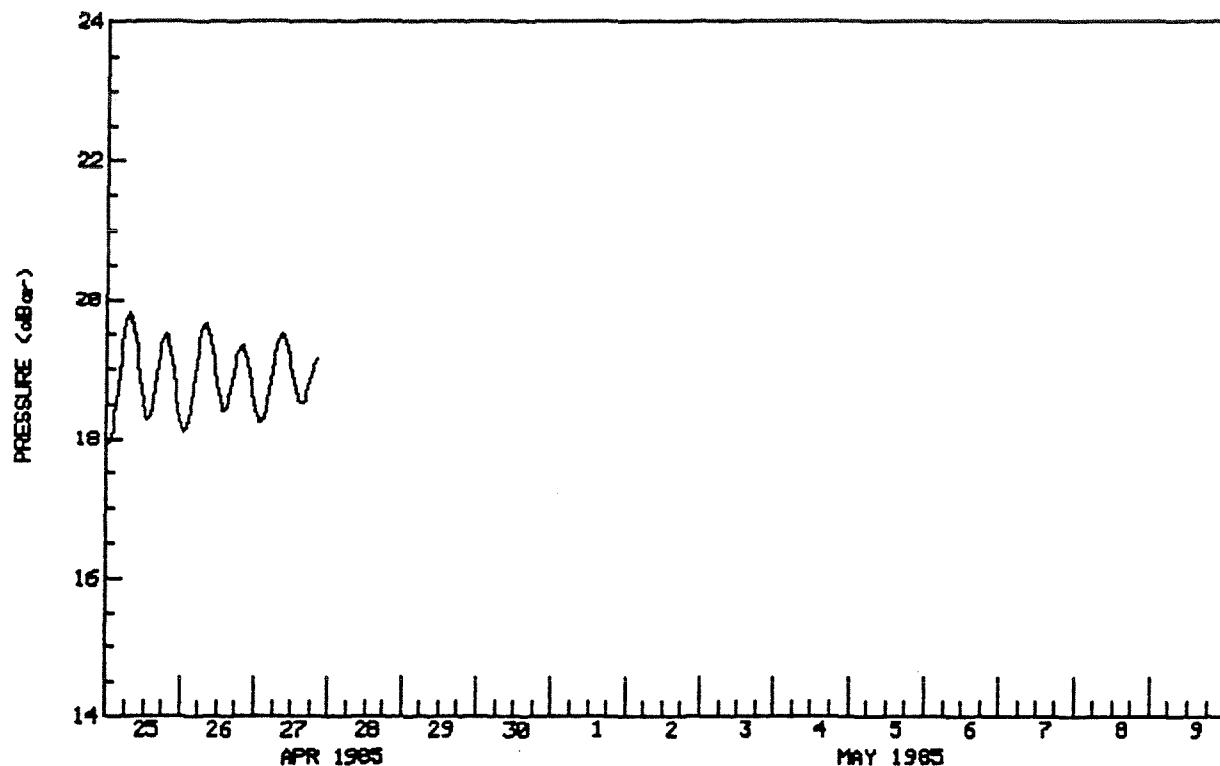


EASTERN ARCTIC TIDAL SURVEY, 1985

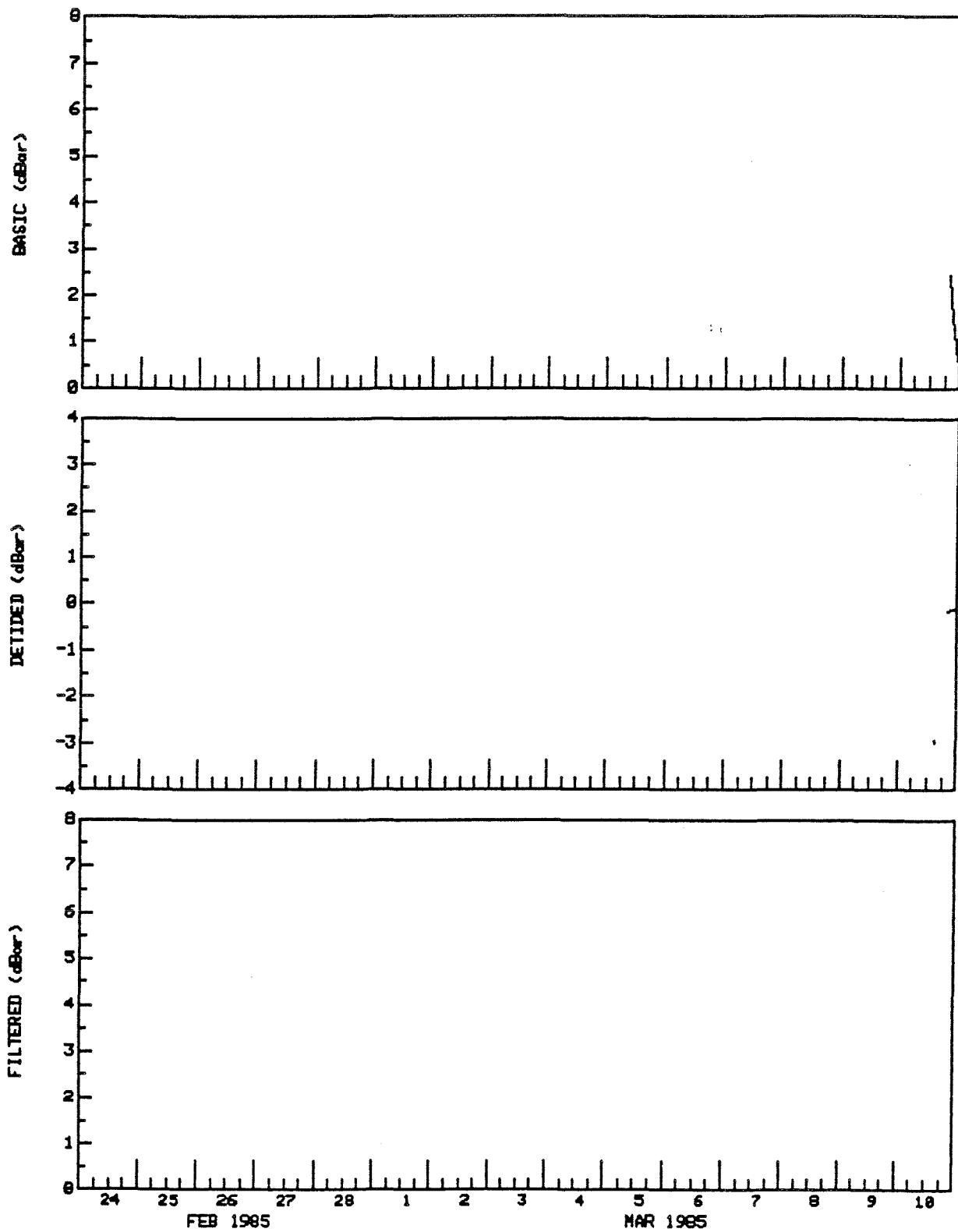
SITE #31 CAPE FIELD
81 06' 42"N 64 12' 30"W

DEPTH(m) 19
AANDERAA WLR5 #597

TYPE DESPIKED
DT(min) 30



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #31 CAPE FIELD DEPTH(m) 19 TYPE DESPIKED
81 06' 42"N 64 12' 30"W AANDERAA WLR5 #597 DT(min) 60

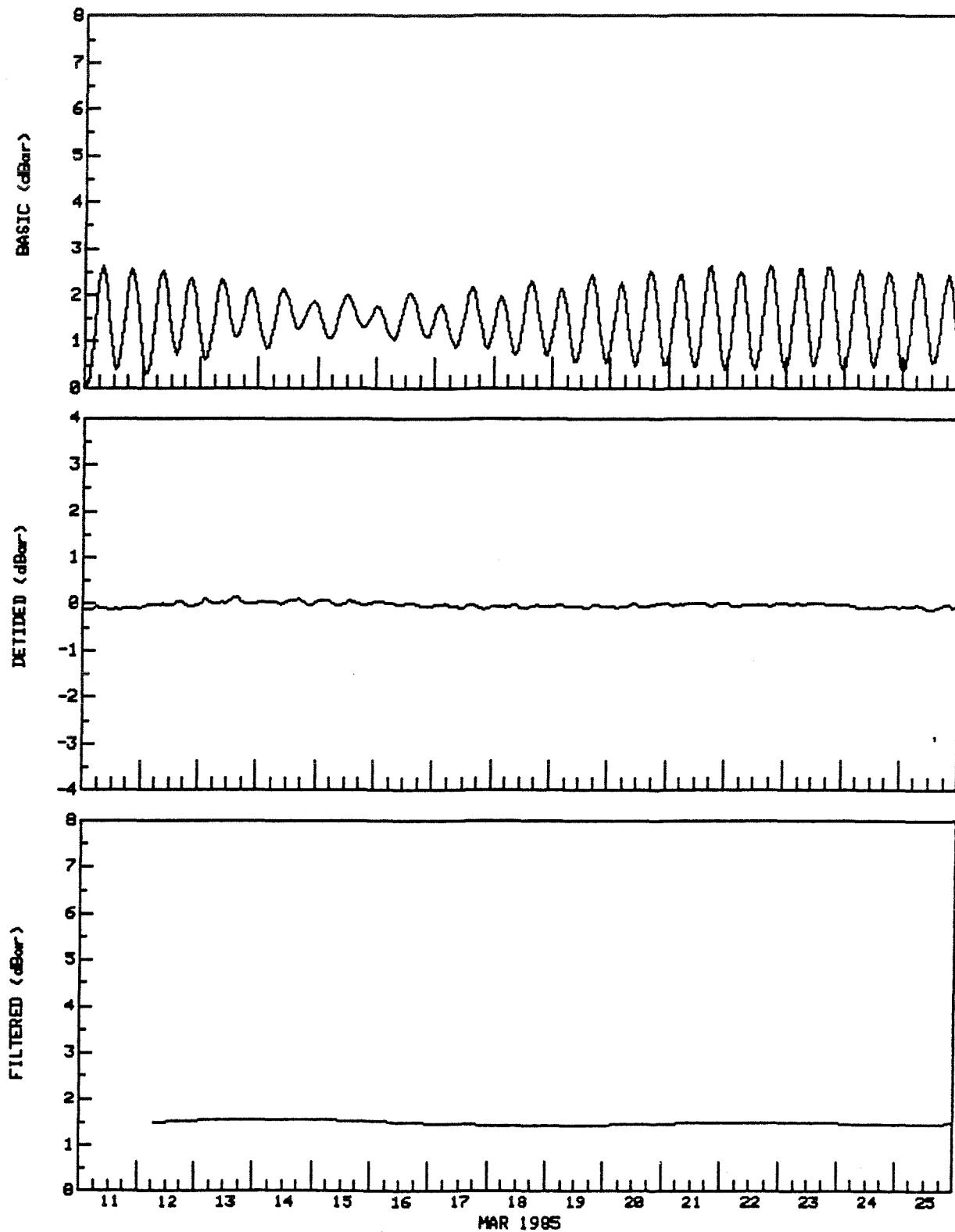


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #31 CAPE FIELD
81 06' 42"N 64 12' 30"W

DEPTH(m) 19
AANDERAA WLR5 #597

TYPE DESPIKED
DT(min) 60

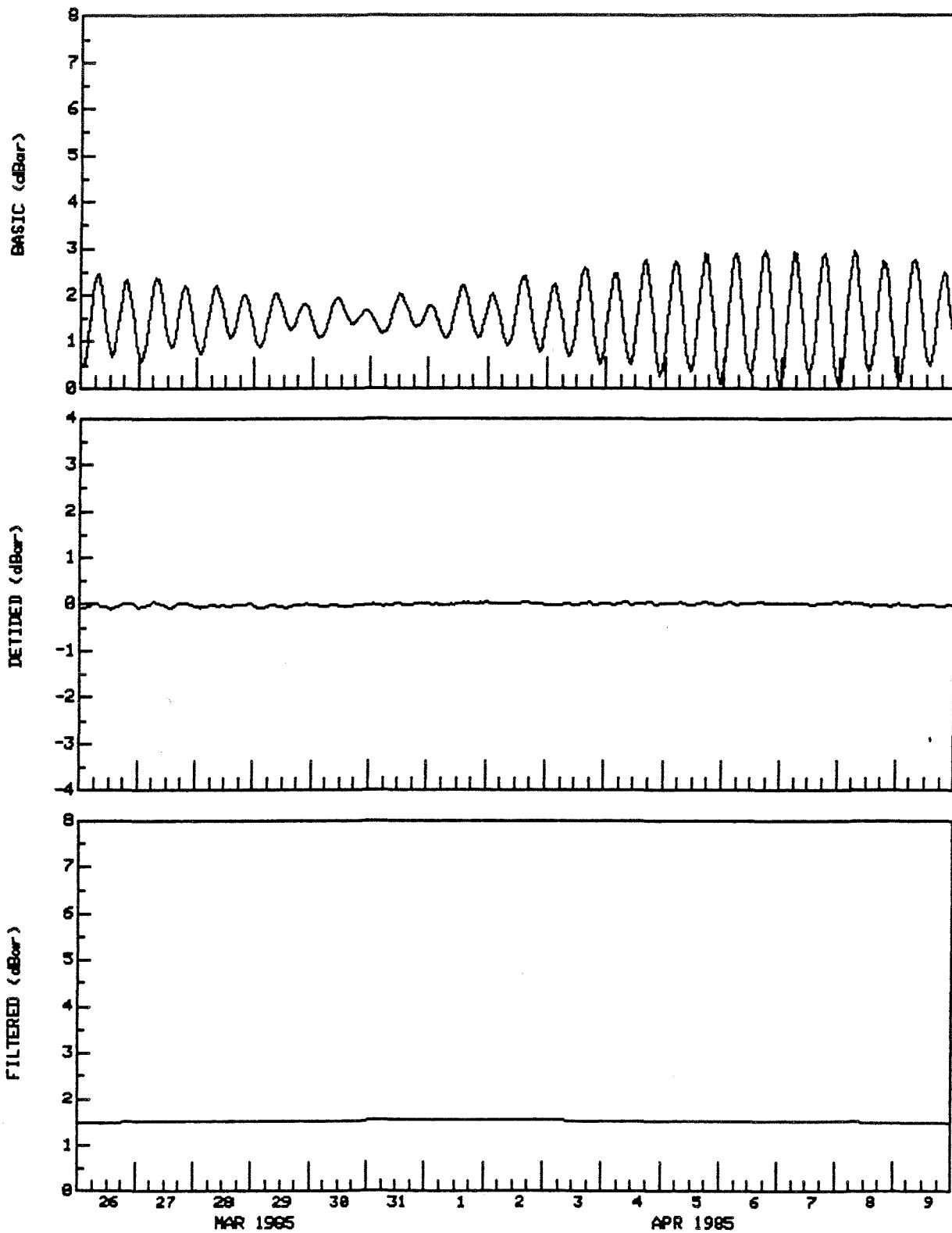


TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

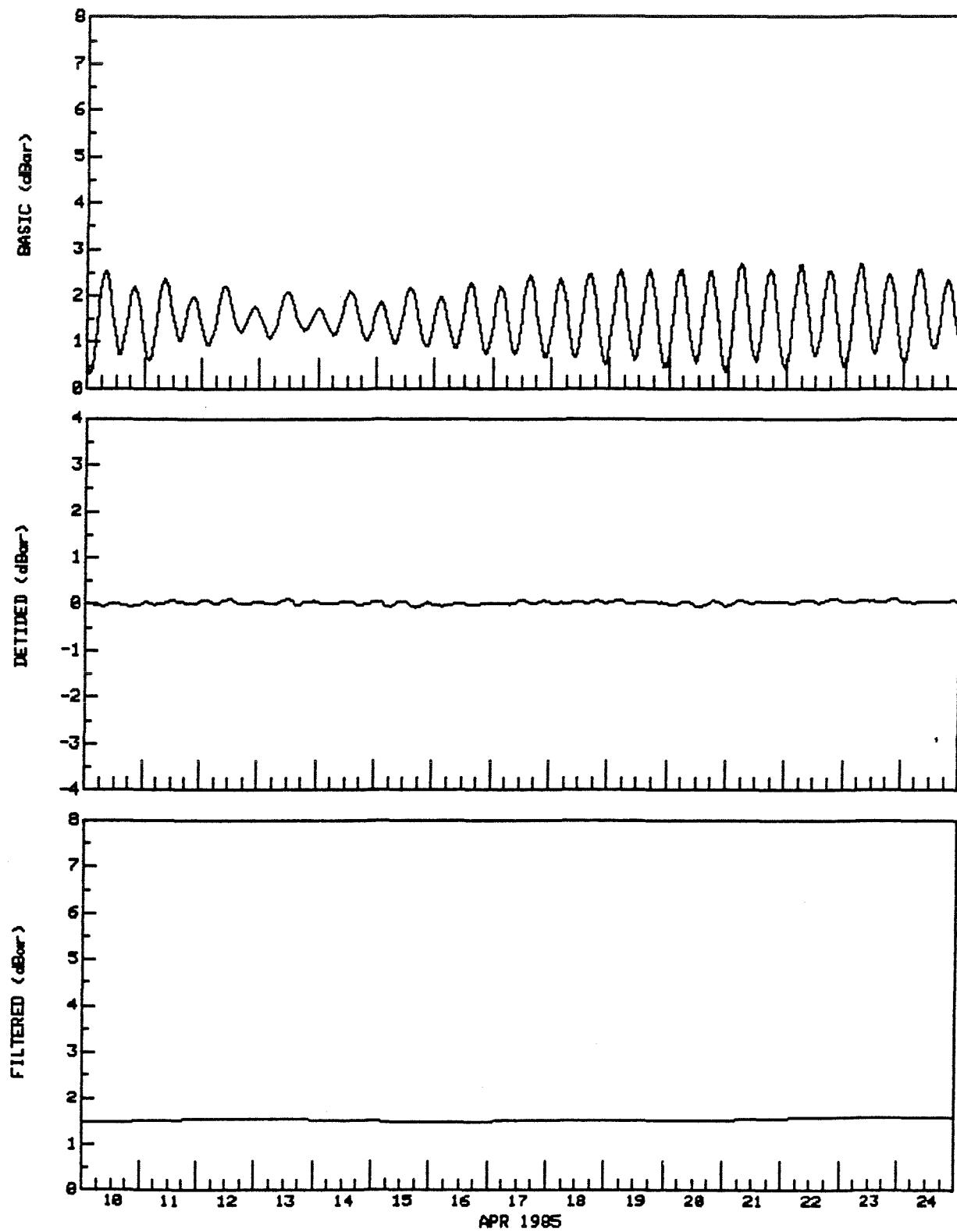
SITE #31 CAPE FIELD
81 06' 42"N 64 12' 30"W

DEPTH(m) 19
AANDERAA WLR5 #597

TYPE DESPIKED
DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #31 CAPE FIELD DEPTH(m) 19 TYPE DESPIKED
81 06' 42"N 64 12' 30"W AANDERAA WLR5 #597 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #31 CAPE FIELD

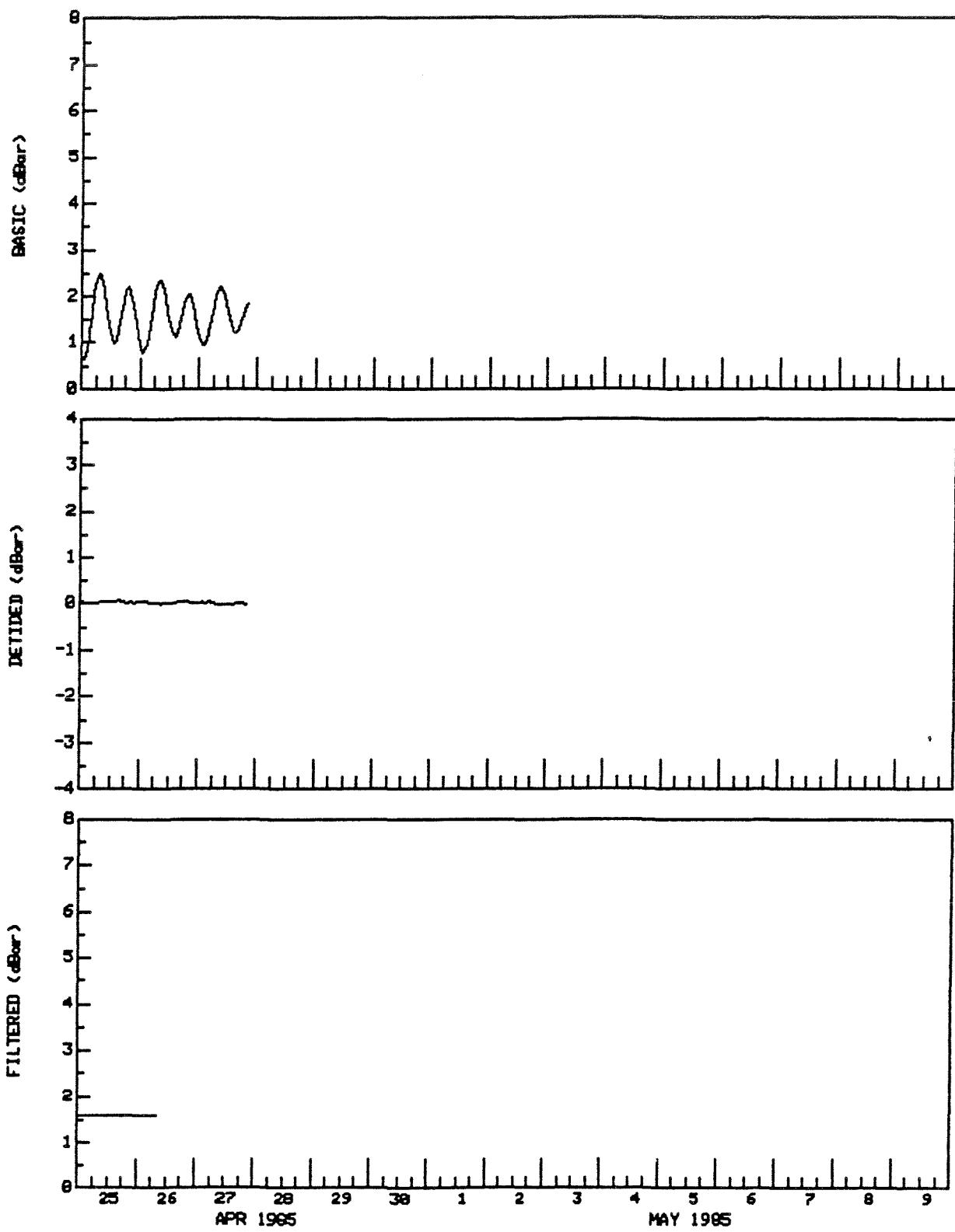
DEPTH(m) 19

TYPE DESPIKED

81 06' 42"N 64 12' 30"W

AANDERAA WLR5 #597

DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 32****TIDE GAUGE # 548**

Site # 32: Cape Defosse

Position: 81°13'24"N 65°47'30"W

Tide Gauge #: Aanderaa WLR5 #548

Date/Time of Deployment: 1985/03/10 15:35

Date/Time of Recovery: 1985/04/28 18:42

Sampling Interval: 30 min

Number of Records on Tape: 2517

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	3.078	1.553	0.650
Detided Pressure	-0.182	0.123	0.002	0.041
Filtered Pressure	1.489	1.623	1.551	0.034

Data Quality: Timing 26 seconds fast

Clean record

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #32 CAPE DEFOSSE LAT: 81 13 24.0 N
 DEPTH: 18 M LONG: 65 47 30.0 W
 START: 1600Z 10/ 3/85 END: 1800Z 28/ 4/85
 NO.OBS.= 1179 NO.PTS.ANAL.= 1179 MIDPT: 500Z 4/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	1.5401	0.00
2	MM	0.00151215	0.0128	303.63
3	MSF	0.00282193	0.0089	157.08
4	ALP1	0.03439657	0.0016	355.96
5	2Q1	0.03570635	0.0042	343.98
6	Q1	0.03721850	0.0026	320.02
7	O1	0.03873065	0.0363	244.70
8	N01	0.04026860	0.0069	259.87
9	P1	0.04155259	0.0379	277.07 INF FR K1
10	K1	0.04178075	0.1148	277.07
11	J1	0.04329290	0.0022	290.84
12	001	0.04483084	0.0036	304.23
13	UPS1	0.04634299	0.0013	324.53
14	EPS2	0.07617730	0.0088	337.97
15	MU2	0.07768947	0.0456	37.63
16	N2	0.07899922	0.1764	83.75
17	M2	0.08051139	0.8026	105.84
18	L2	0.08202356	0.0141	103.21
19	S2	0.08333331	0.3632	150.70
20	K2	0.08356148	0.0981	150.70 INF FR S2
21	ETA2	0.08507365	0.0096	292.47
22	M03	0.11924207	0.0053	348.43
23	M3	0.12076712	0.0097	62.54
24	MK3	0.12229216	0.0013	43.49
25	SK3	0.12511408	0.0046	186.60
26	MN4	0.15951067	0.0041	216.13
27	M4	0.16102278	0.0091	250.85
28	SN4	0.16233259	0.0022	254.67
29	MS4	0.16384470	0.0060	296.53
30	S4	0.16666669	0.0016	338.03
31	2MK5	0.20280355	0.0015	55.94
32	2SK5	0.20844740	0.0014	198.89
33	2MN6	0.24002206	0.0008	111.67
34	M6	0.24153417	0.0014	113.51
35	2MS6	0.24435616	0.0010	354.26
36	2SM6	0.24717808	0.0011	5.49
37	3MK7	0.28331494	0.0003	349.24
38	M8	0.32204562	0.0002	25.39

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #32 CAPE DEFOSSE

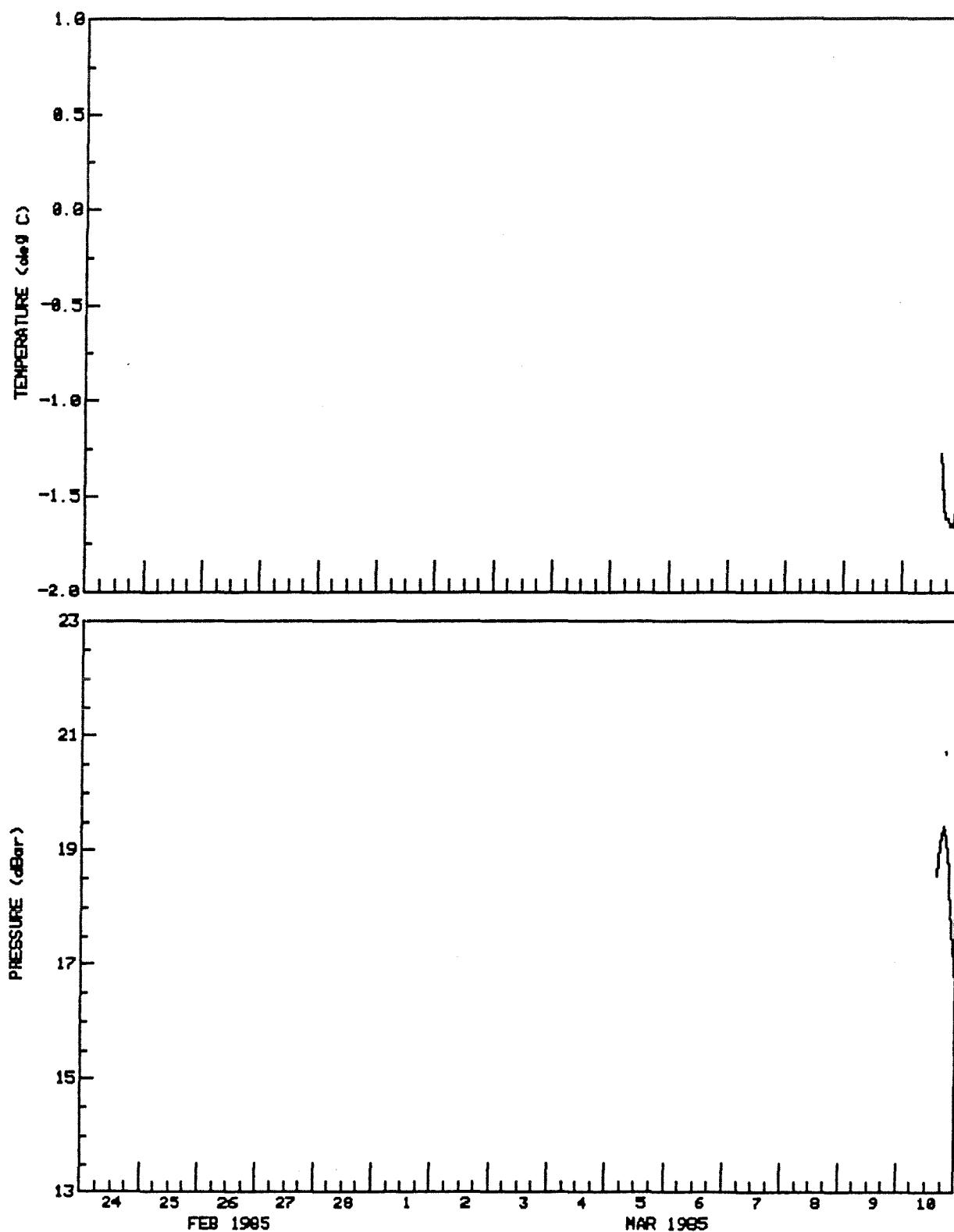
81 13' 24"N 65 47' 30"W

DEPTH(m) 18

AANDERAA WLR5 #548

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #32 CAPE DEFOSSE

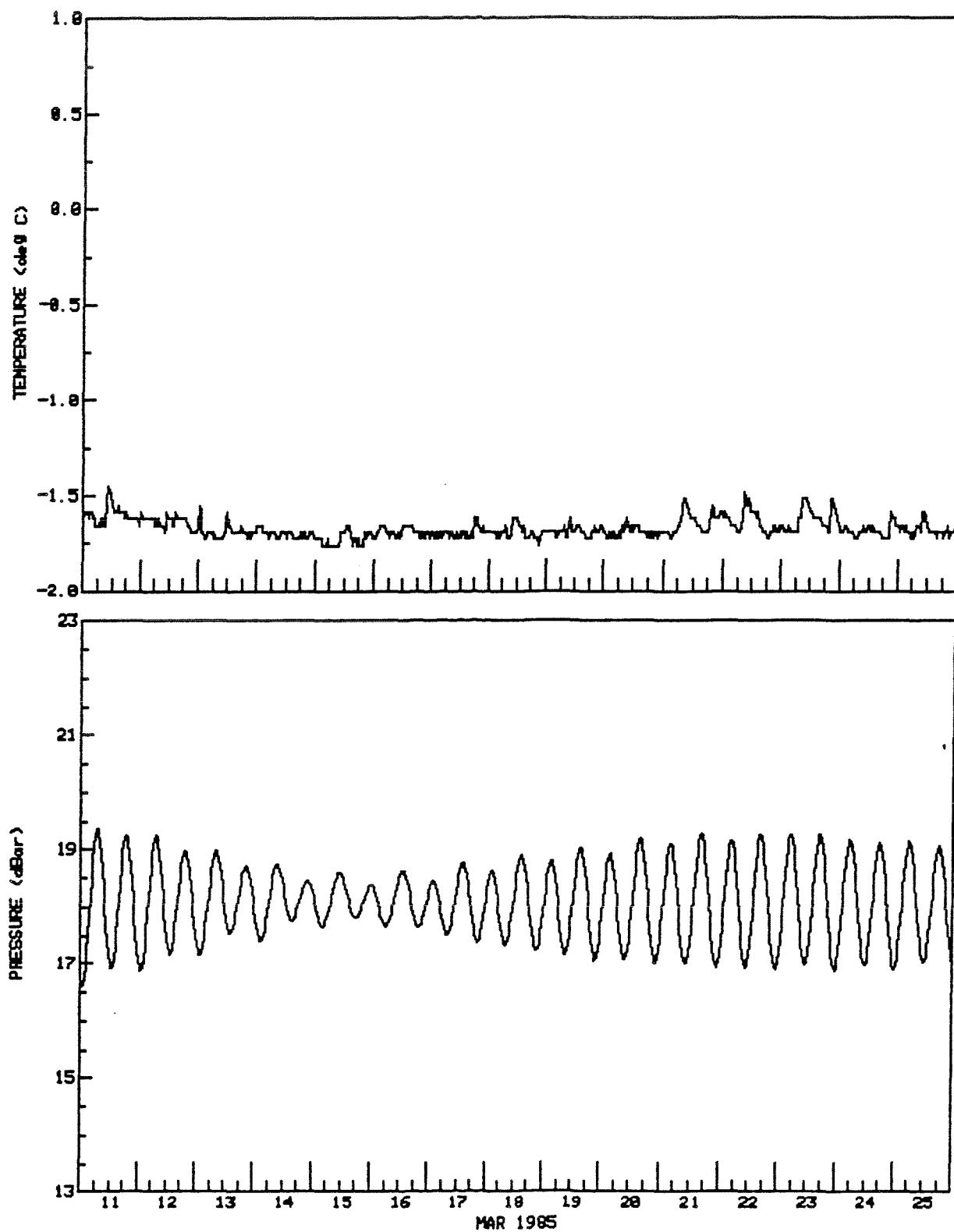
81 13' 24"N 65 47' 30"W

DEPTH(m) 18

AANDERAA WLR5 #548

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #32 CAPE DEFOSSE

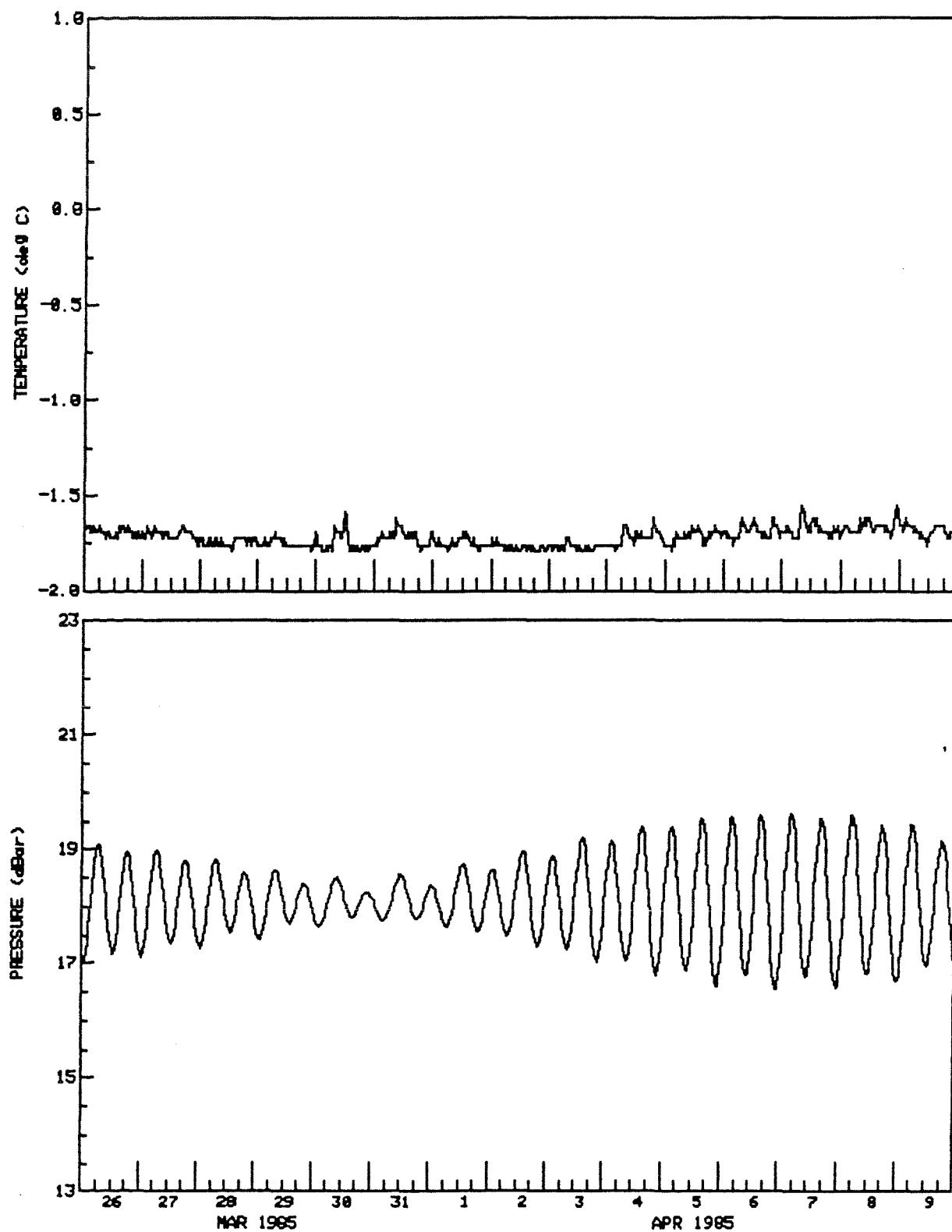
81 13' 24"N 65 47' 30"W

DEPTH(m) 18

AANDERAA WLR5 #548

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #32 CAPE DEFOSSE

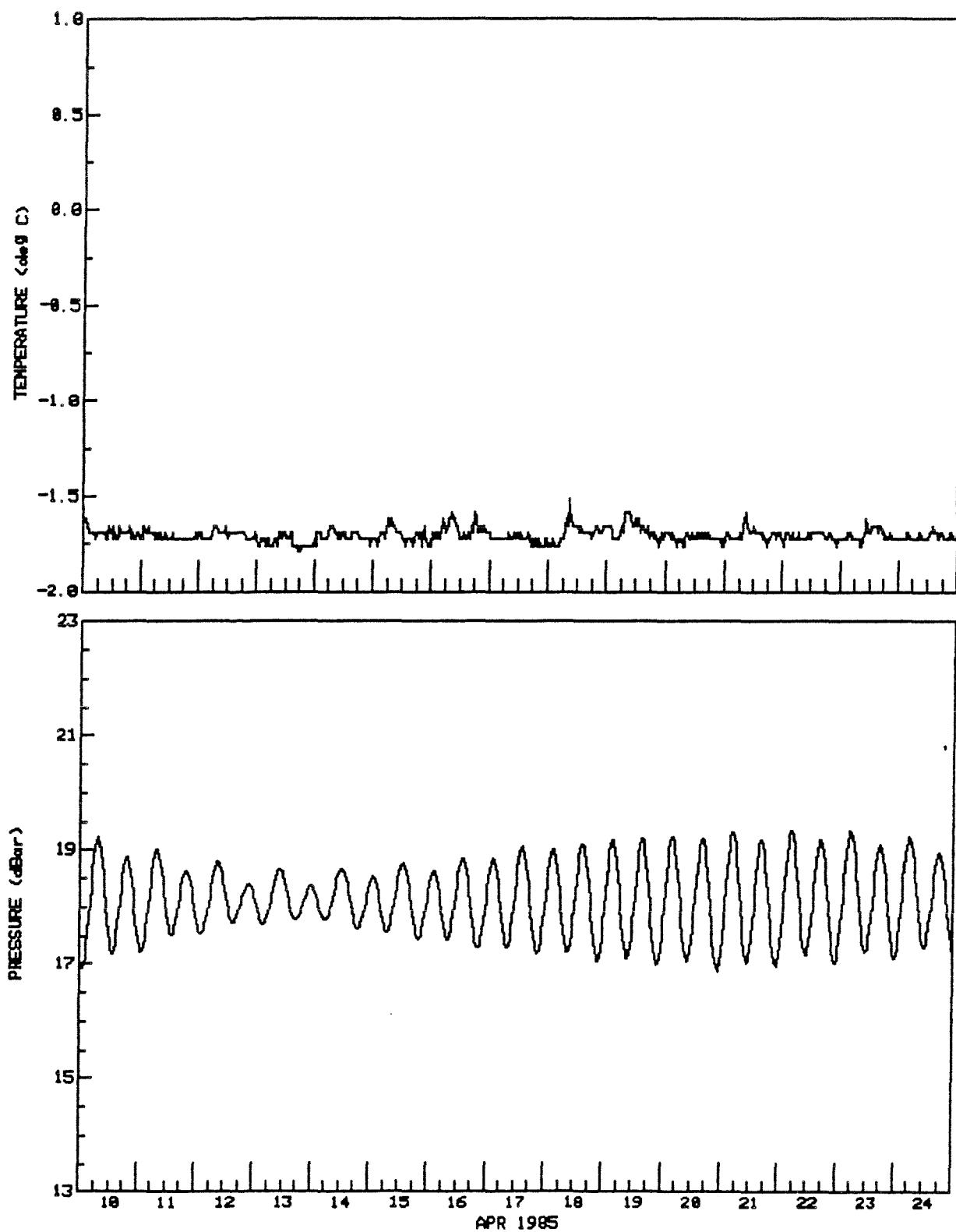
81 13' 24"N 65 47' 30"W

DEPTH(m) 18

AANDERAA WLR5 #548

TYPE DESPIKED

DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #32 CAPE DEFOSSE

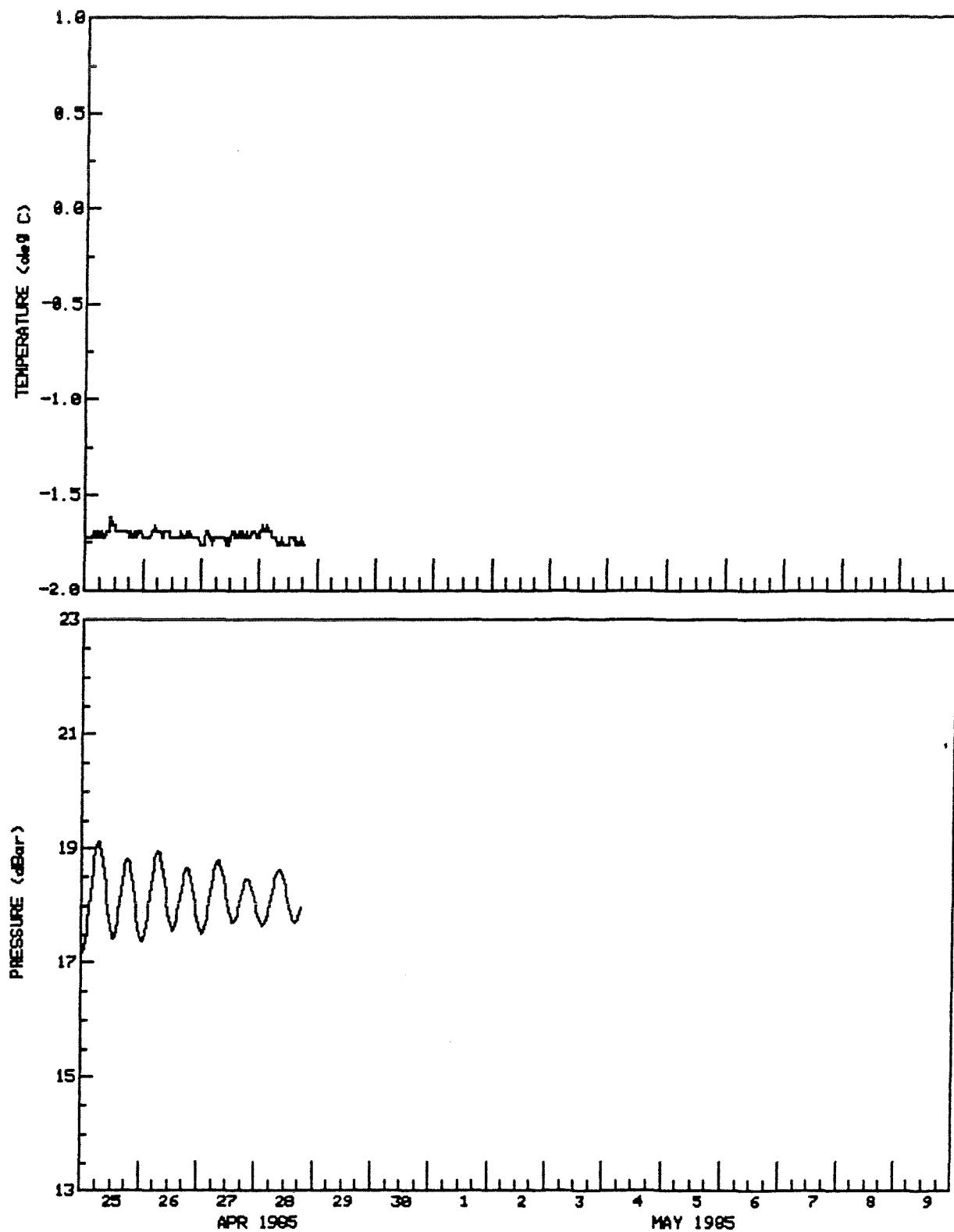
81 13' 24"N 65 47' 30"W

DEPTH(m) 18

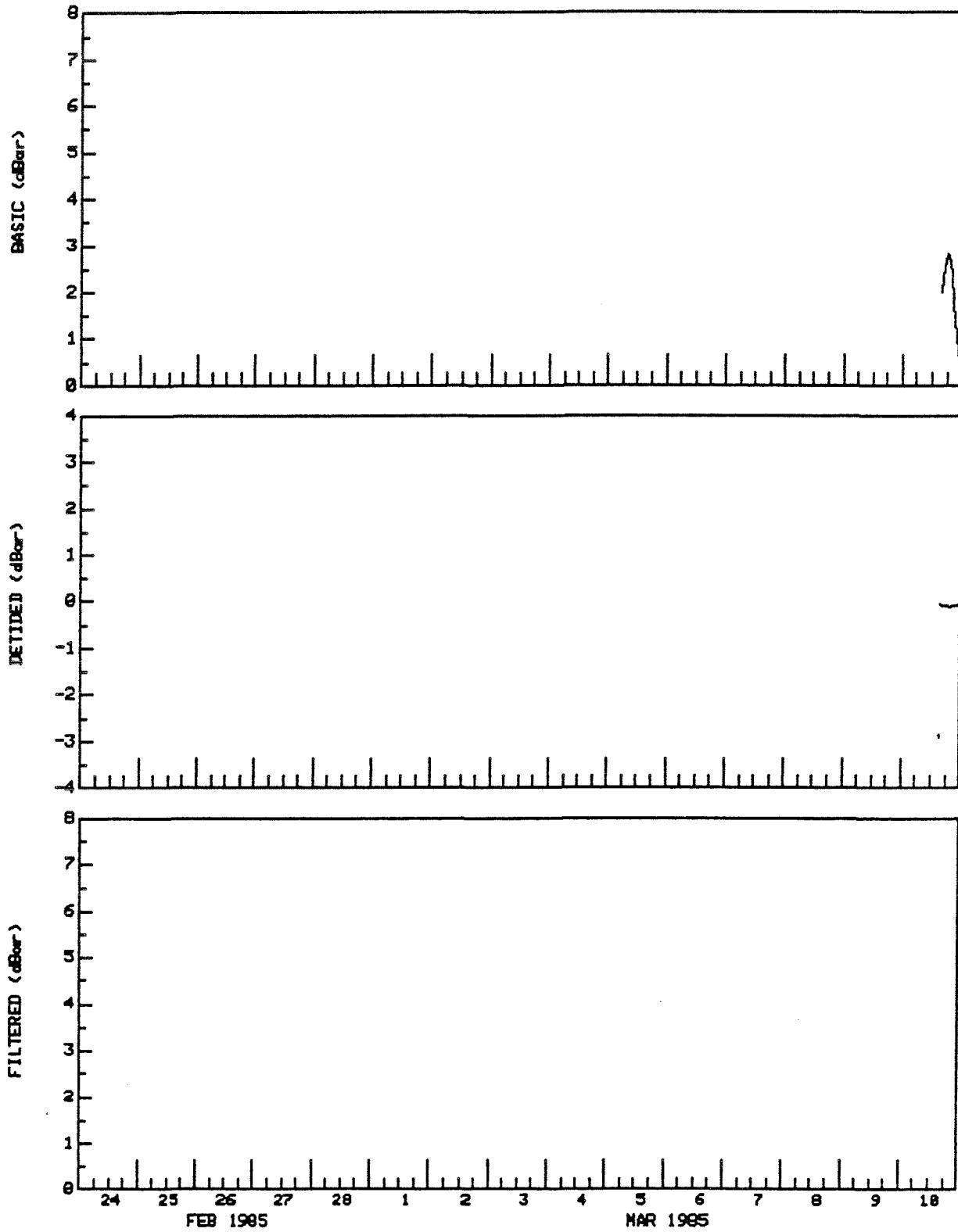
AANDERAA WLR5

TYPE DESPIKED

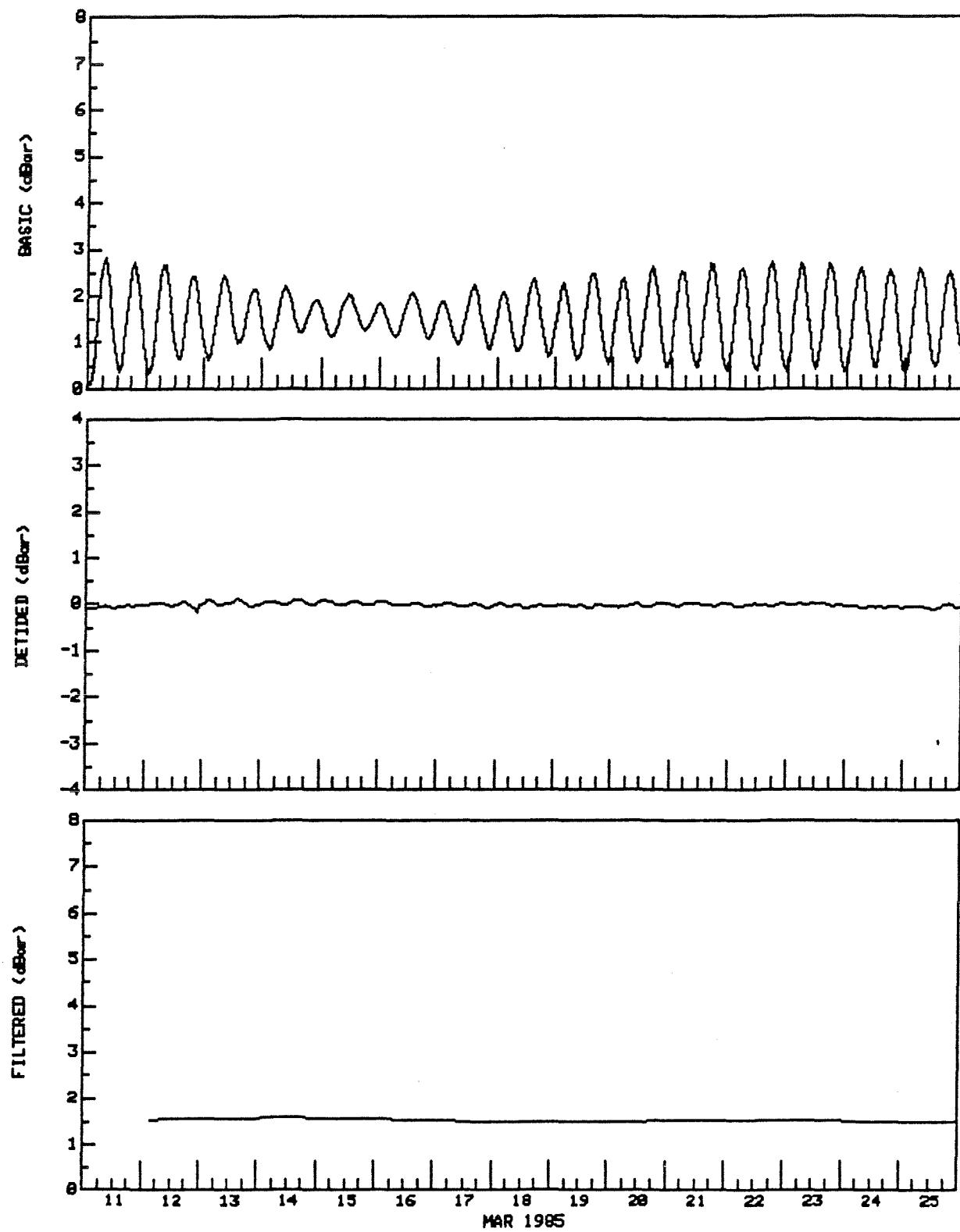
#548 DT(min) 30



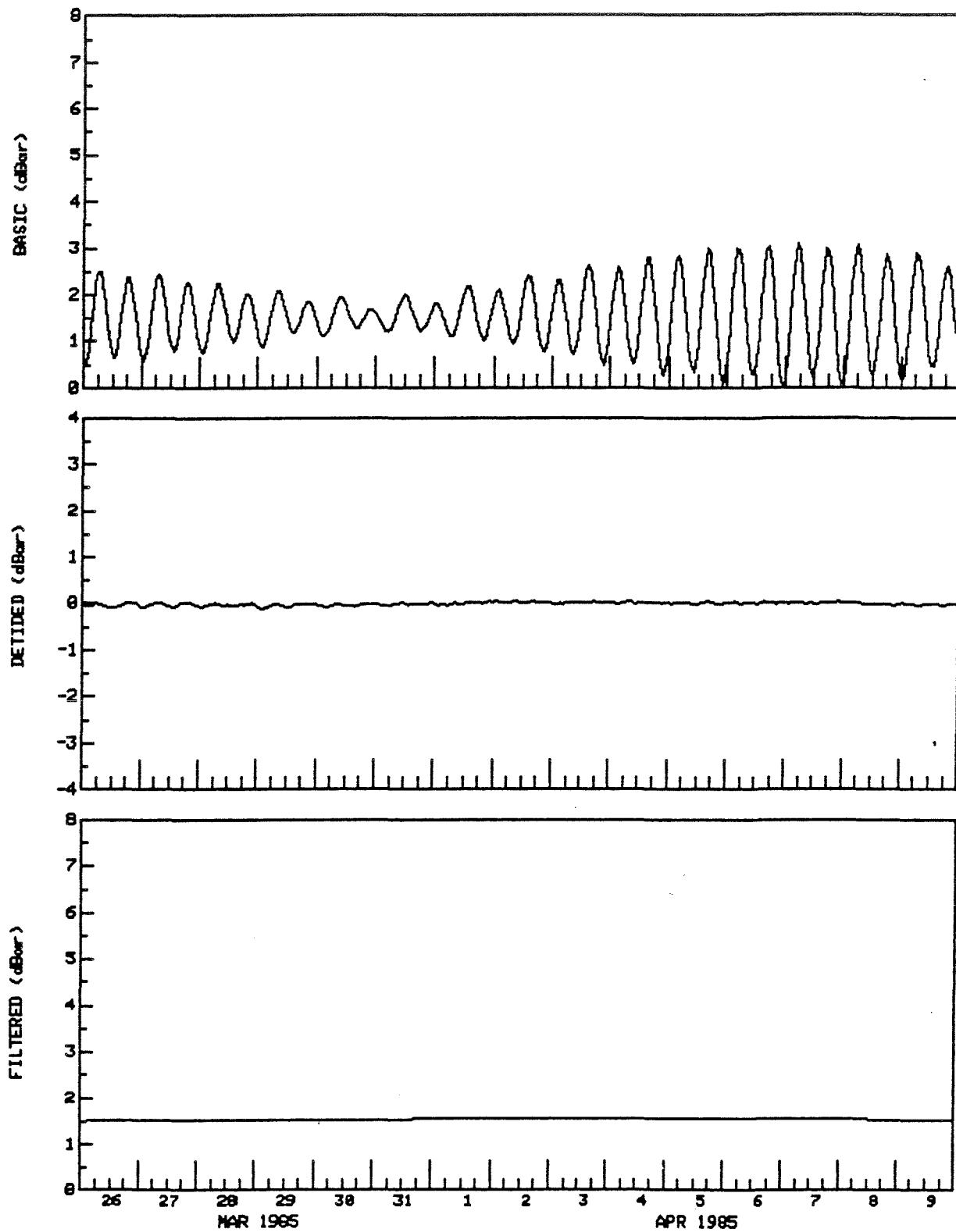
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #32 CAPE DEFOSSE DEPTH(m) 18 TYPE DESPIKED
81 13' 24"N 65 47' 30"W AANDERAA WLR5 #548 DT(min) 60



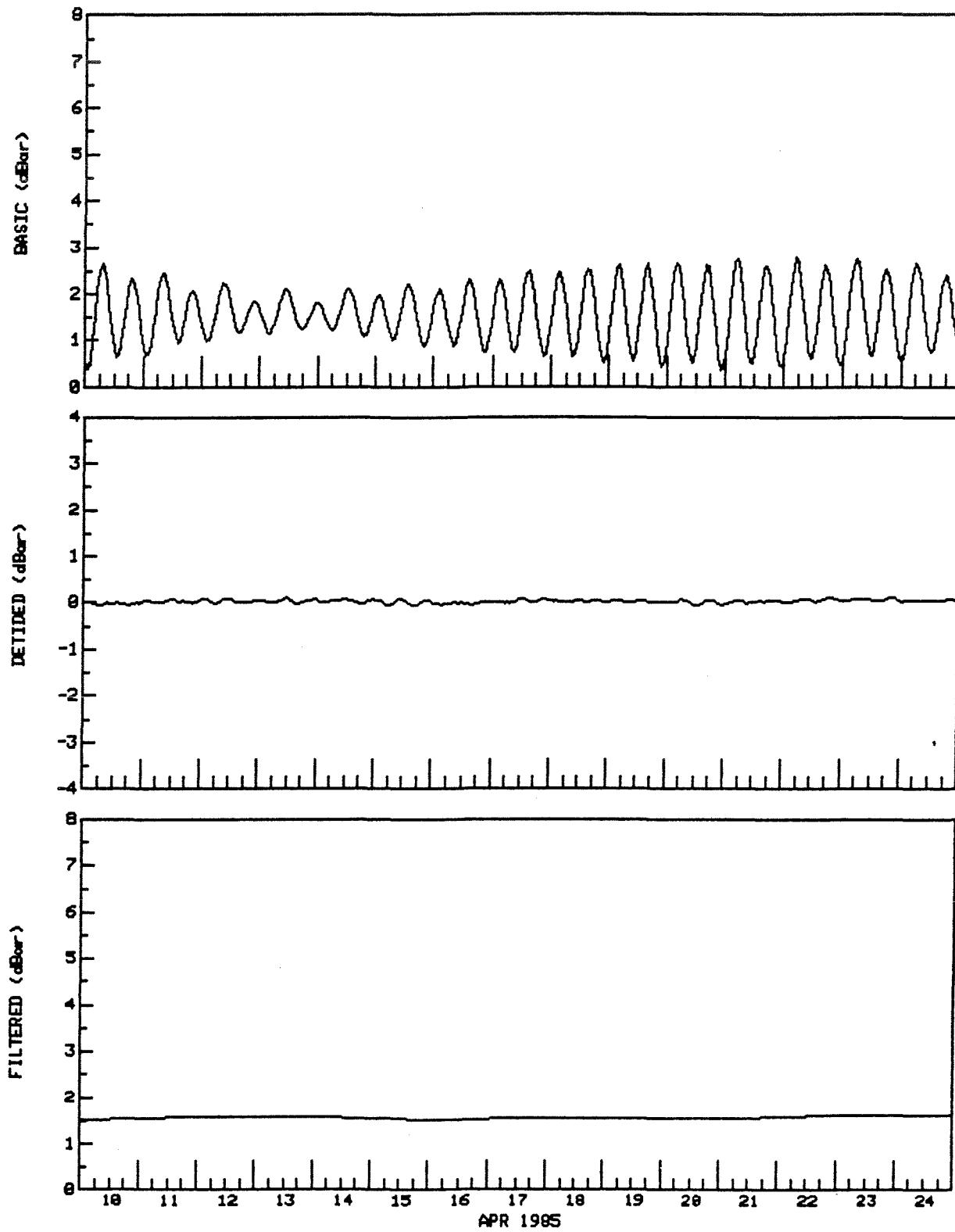
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #32 CAPE DEFOSSE DEPTH(m) 18 TYPE DESPIKED
81 13' 24"N 65 47' 30"W AANDERAA WLR5 #548 DT(min) 60



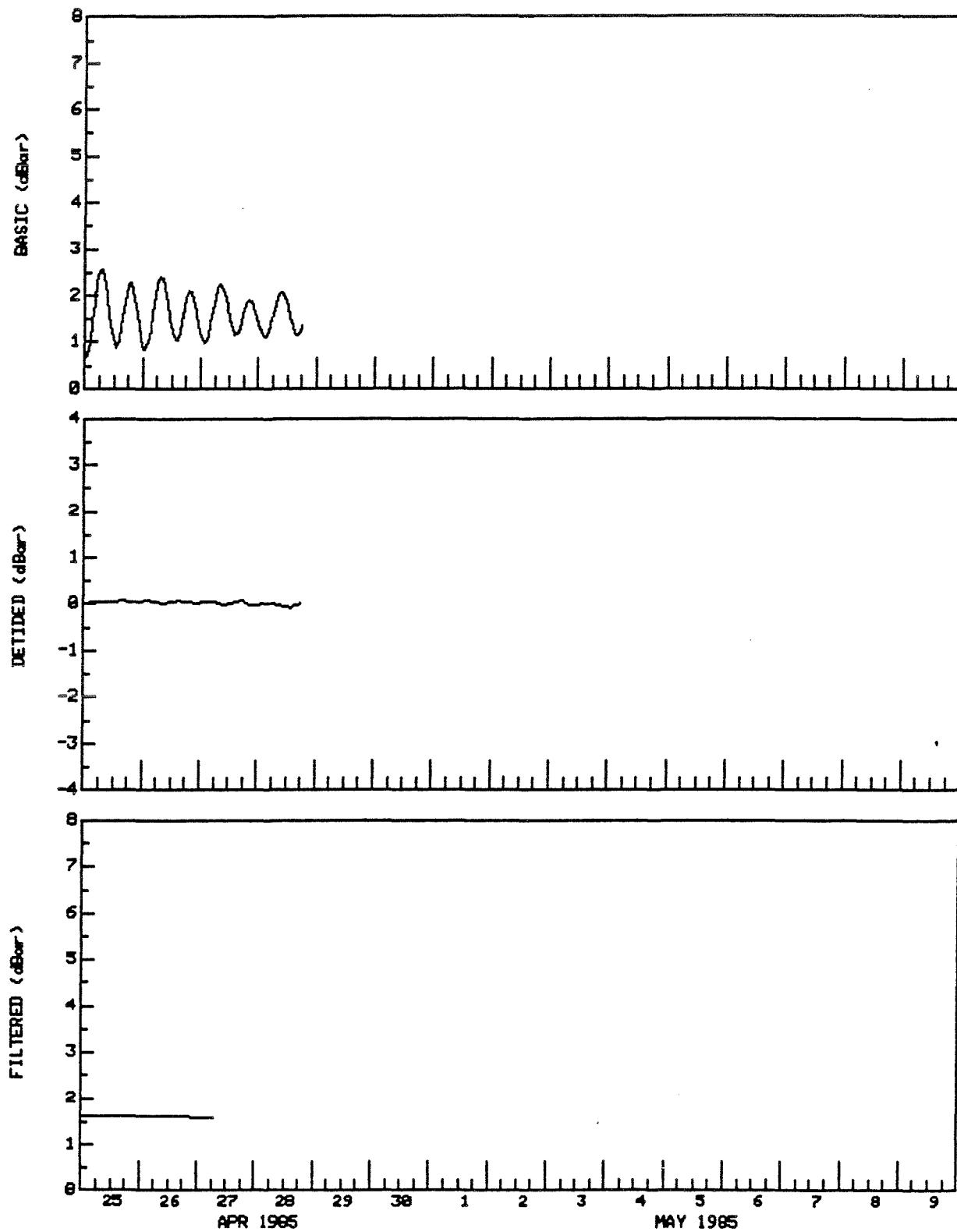
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #32 CAPE DEFOSSE DEPTH(m) 18 TYPE DESPIKED
81 13' 24"N 65 47' 30"W AANDERAA WLR5 #548 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #32 CAPE DEFOSSE DEPTH(m) 18 TYPE DESPIKED
81 13' 24"N 65 47' 30"W AANDERAA WLR5 #548 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #32 CAPE DEFOSSE DEPTH(m) 18 TYPE DESPIKED
81 13' 24"N 65 47' 30"W AANDERAA WLR5 #548 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 33****TIDE GAUGE # 191**

Site # 33: Cape Murchison

Position: 81°46'48"N 64°13'00"W

Tide Gauge #: Aanderaa WLR5 #191

Date/Time of Deployment: 1985/03/10 19:53

Date/Time of Recovery: 1985/04/28 22:51

Sampling Interval: 30 min

Number of Records on Tape: 2630

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	2.248	1.154	0.471
Detided Pressure	-0.093	0.113	0.002	0.033
Filtered Pressure	1.067	1.214	1.150	0.031

Data Quality: Timing 27 seconds slow

A few spikes in pressure

No temperature calibration available

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

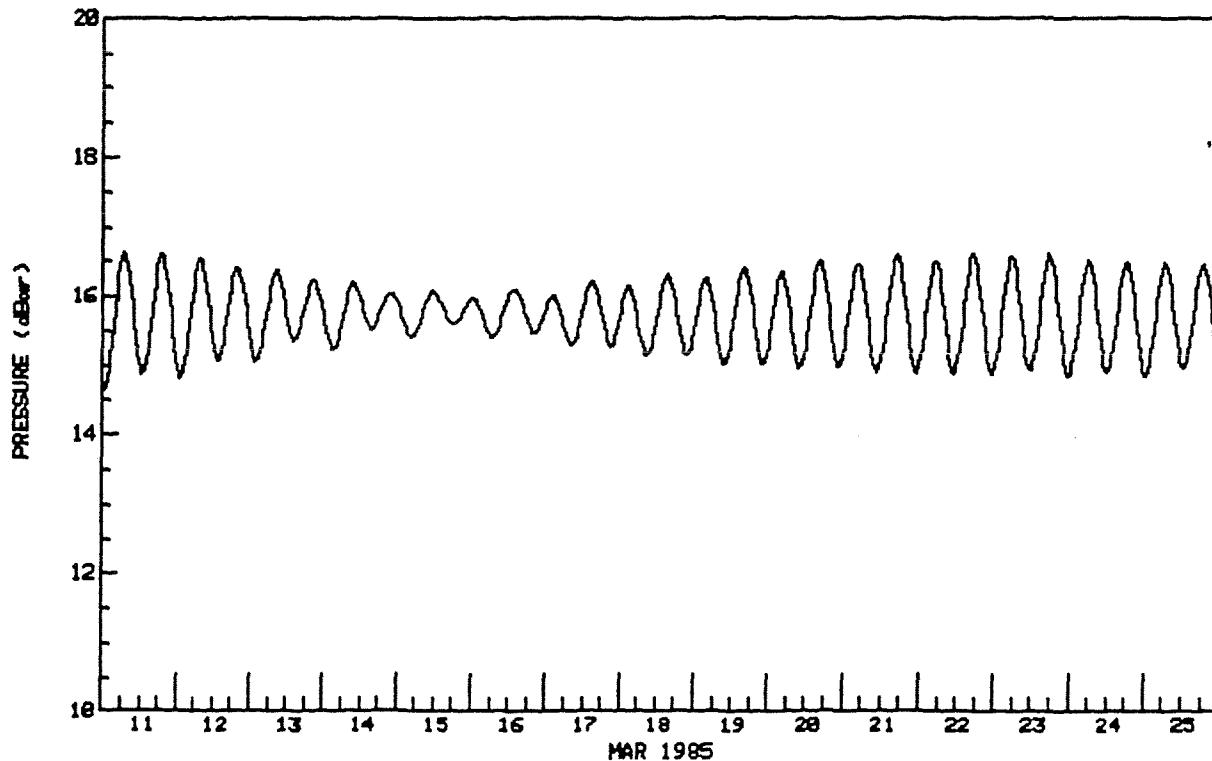
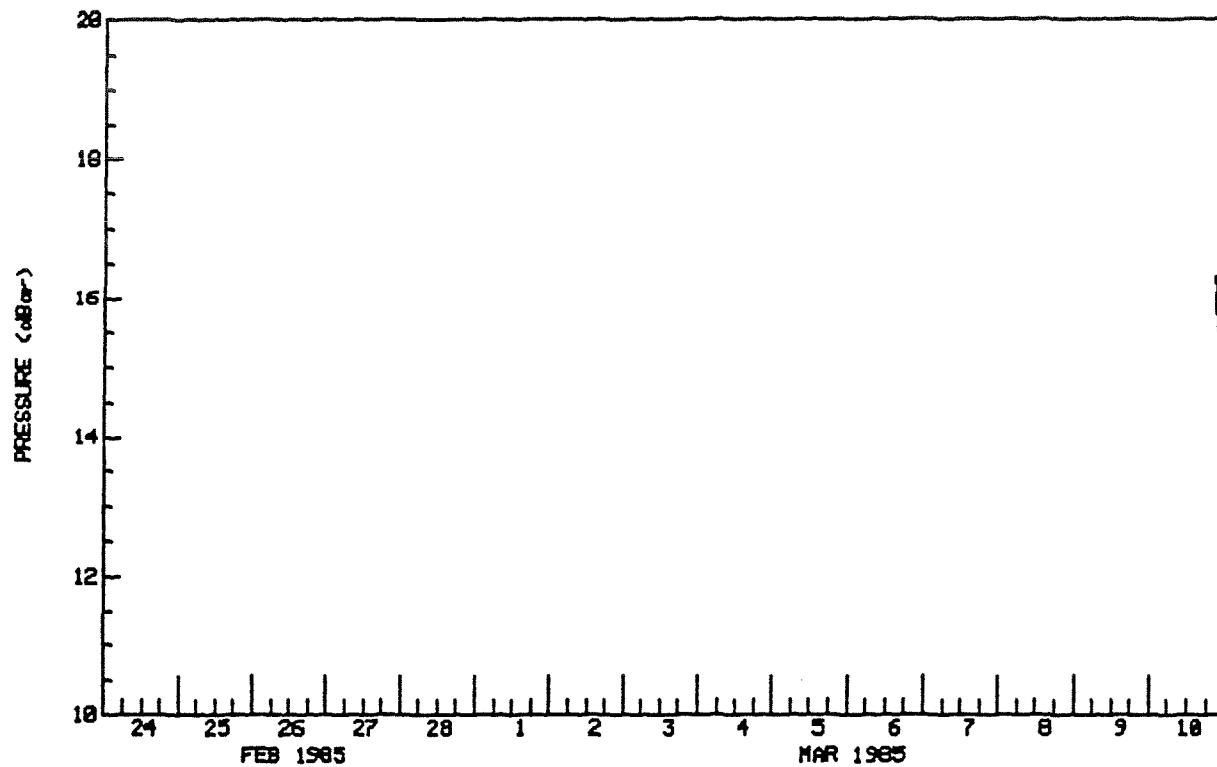
ANALYSIS OF HOURLY TIDAL HEIGHTS

STN: #33 CAPE MURCHISON LAT: 81 46 48.0 N
 DEPTH: 17 M LONG: 64 13 0.0 W
 START: 2000Z 10/ 3/85 END: 2200Z 28/ 4/85
 NO.OBS.= 1179 NO.PTS.ANAL.= 1179 MIDPT: 900Z 4/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	ZO	0.00000000	1.1449	0.00
2	MM	0.00151215	0.0090	315.48
3	MSF	0.00282193	0.0088	160.21
4	ALP1	0.03439657	0.0020	336.87
5	2Q1	0.03570635	0.0029	20.93
6	Q1	0.03721850	0.0027	324.30
7	O1	0.03873065	0.0300	277.92
8	N01	0.04026860	0.0055	292.95
9	P1	0.04155259	0.0284	298.30 INF FR K1
10	K1	0.04178075	0.0861	298.30
11	J1	0.04329290	0.0015	296.11
12	001	0.04483084	0.0028	315.37
13	UPS1	0.04634299	0.0013	336.43
14	EPS2	0.07617730	0.0054	334.19
15	MU2	0.07768947	0.0334	36.01
16	N2	0.07899922	0.1276	81.97
17	M2	0.08051139	0.5765	102.86
18	L2	0.08202356	0.0086	111.97
19	S2	0.08333331	0.2697	148.18
20	K2	0.08356148	0.0728	148.18 INF FR S2
21	ETA2	0.08507365	0.0075	294.46
22	M03	0.11924207	0.0029	337.22
23	M3	0.12076712	0.0082	57.86
24	MK3	0.12229216	0.0013	355.67
25	SK3	0.12511408	0.0042	182.05
26	MN4	0.15951067	0.0035	244.42
27	M4	0.16102278	0.0090	259.13
28	SN4	0.16233259	0.0014	286.87
29	MS4	0.16384470	0.0059	330.04
30	S4	0.16666669	0.0023	354.33
31	2MK5	0.20280355	0.0019	66.50
32	2SK5	0.20844740	0.0018	253.52
33	2MN6	0.24002206	0.0007	202.88
34	M6	0.24153417	0.0018	231.51
35	2MS6	0.24435616	0.0047	319.47
36	2SM6	0.24717808	0.0037	10.57
37	3MK7	0.28331494	0.0004	22.80
38	M8	0.32204562	0.0007	245.95

EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #33 CAPE MURCHISON DEPTH(m) 16 TYPE DESPIKED
81 46' 48"N 64 13' 00"W AANDERAA WLR5 #191 DT(min) 30



EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #33 CAPE MURCHISON

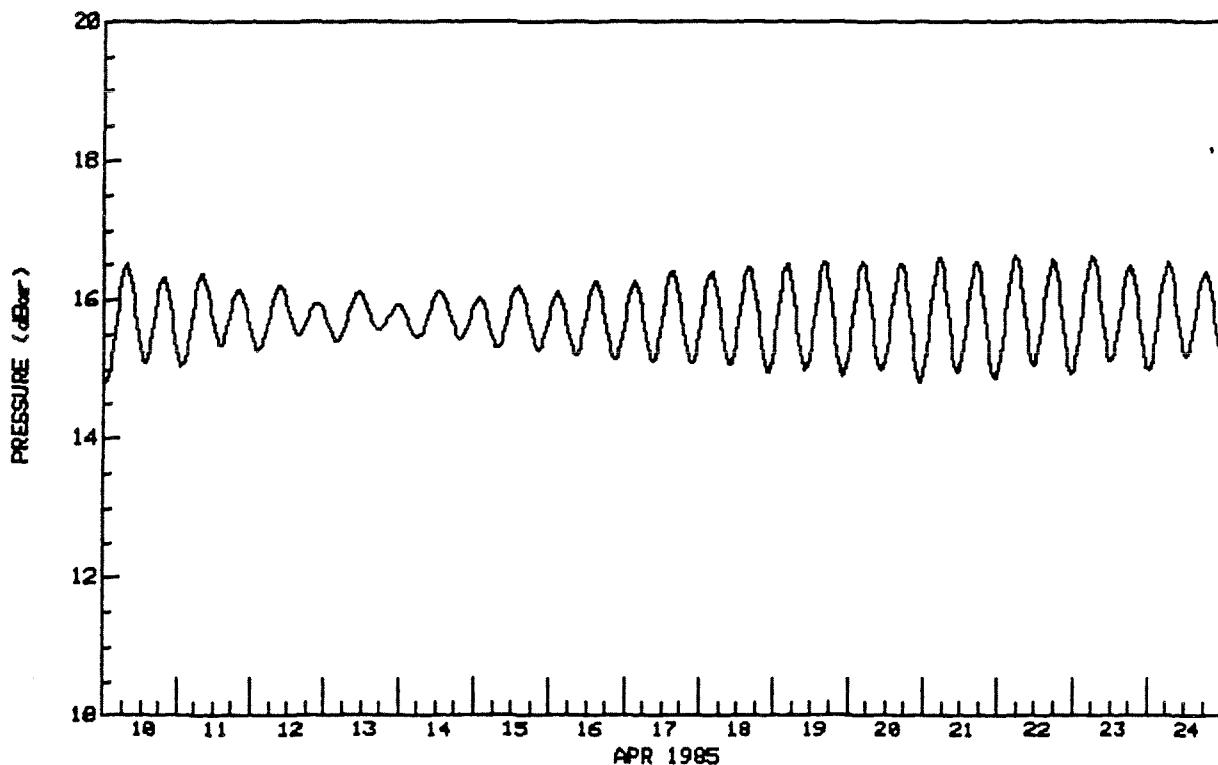
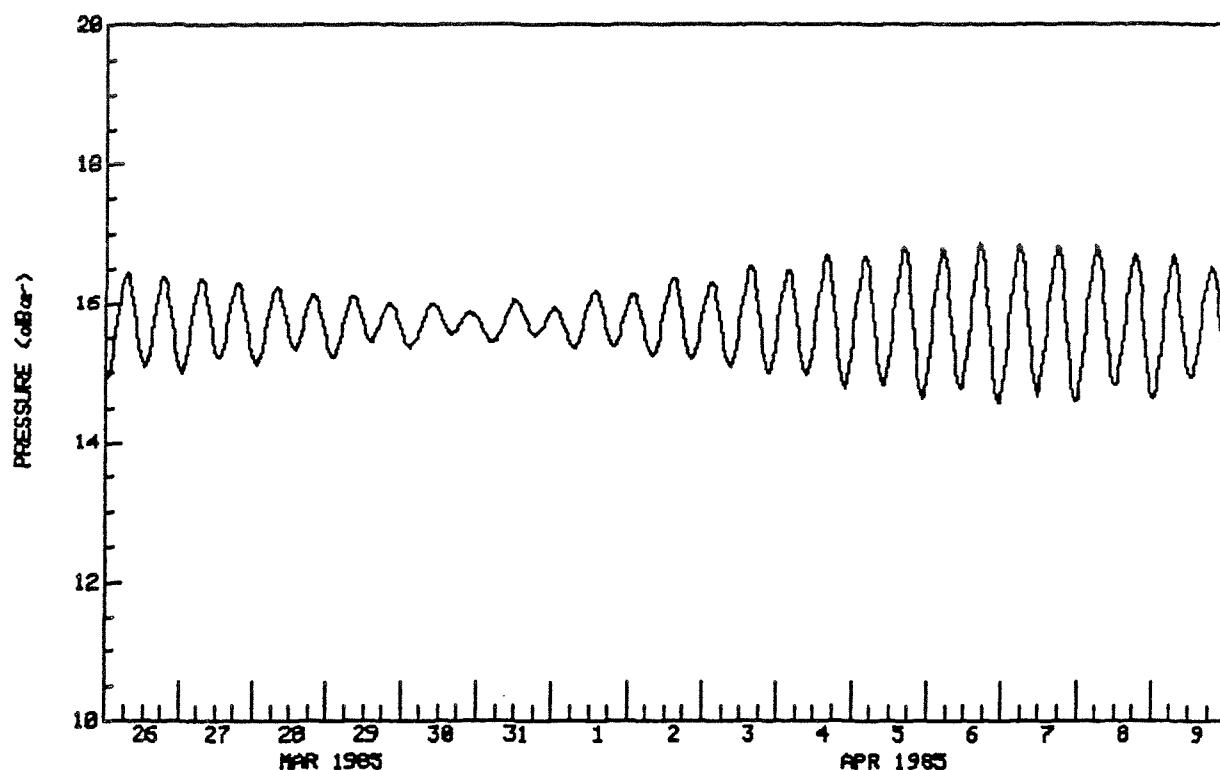
81 46' 48"N 64 13' 00"W

DEPTH(m) 16

AANDERAA WLR5 #191

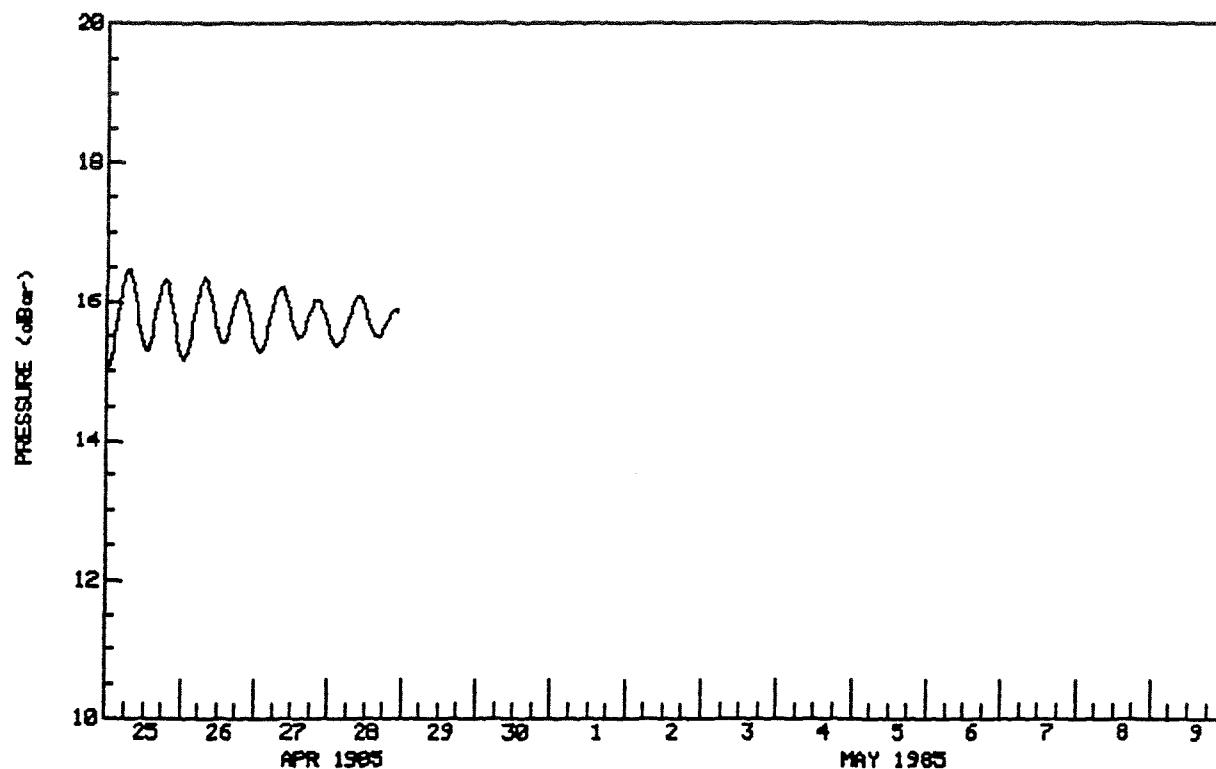
TYPE DESPIKED

DT(min) 30

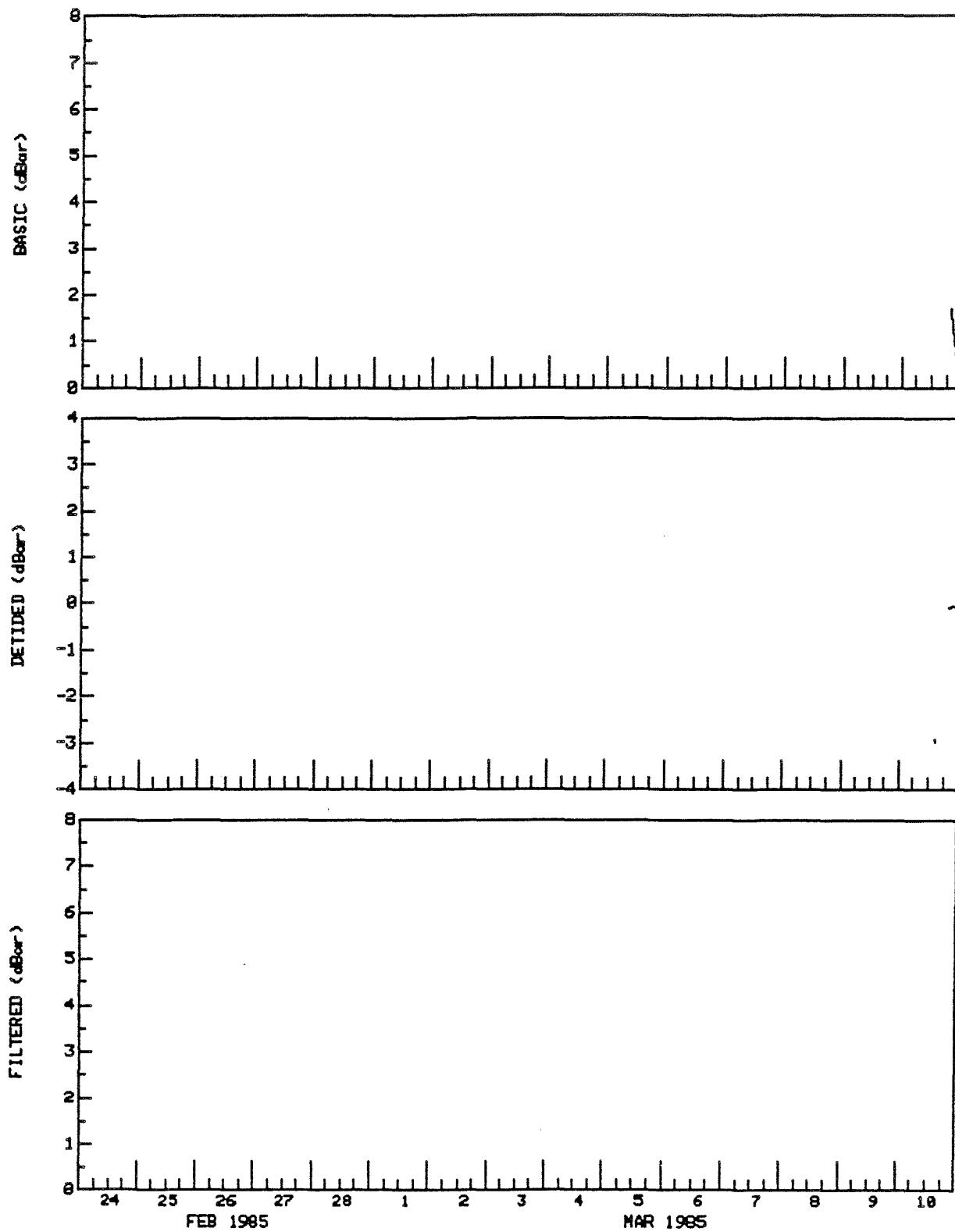


EASTERN ARCTIC TIDAL SURVEY, 1985

SITE #33 CAPE MURCHISON DEPTH(m) 16 TYPE DESPIKED
81 46' 48"N 64 13' 00"W AANDERAA WLR5 #191 DT(min) 30



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #33 CAPE MURCHISON DEPTH(m) 16 TYPE DESPIKED
81 46' 48"N 64 13' 00"W AANDERAA WLR5 #191 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

SITE #33 CAPE MURCHISON

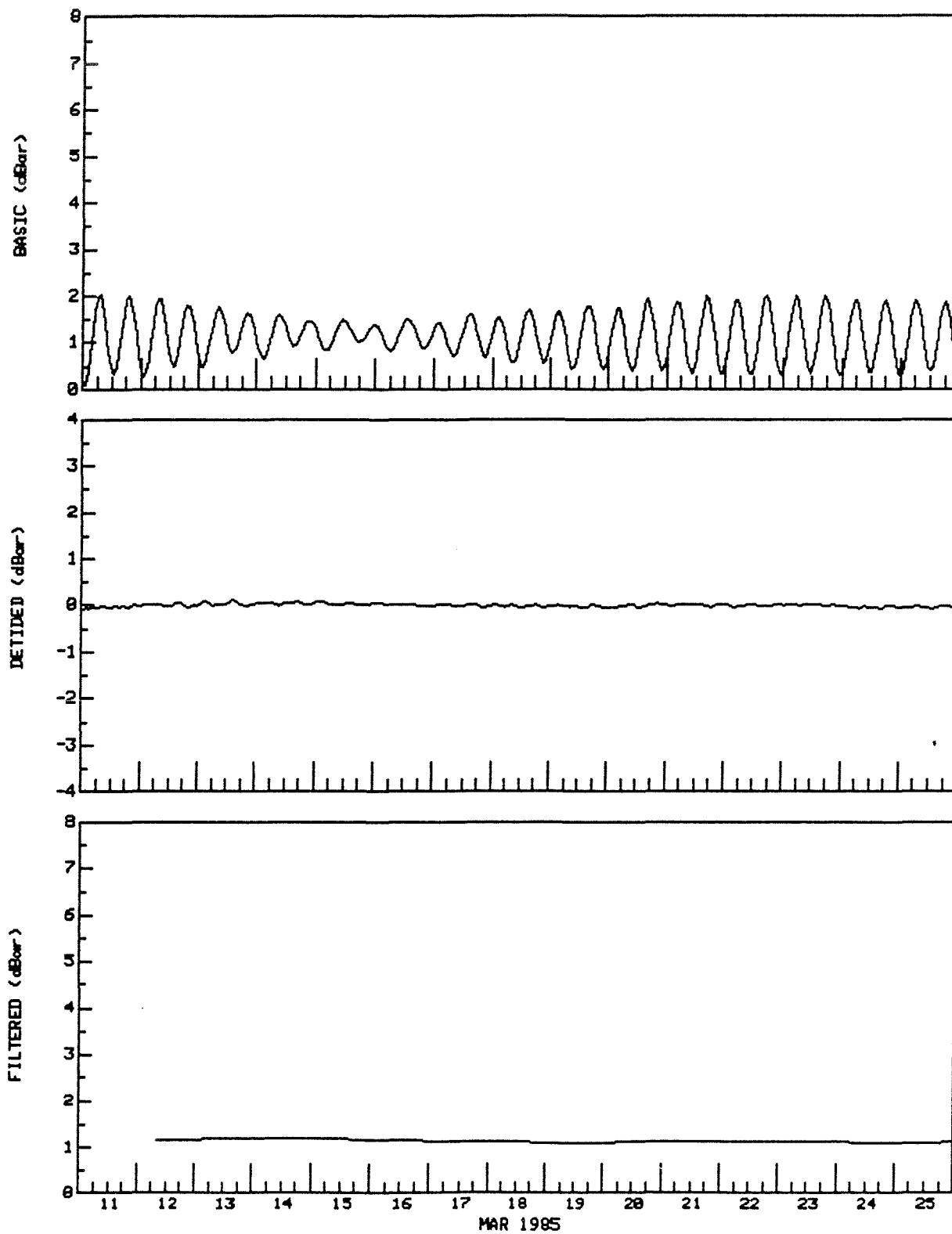
DEPTH(m) 16

TYPE DESPIKED

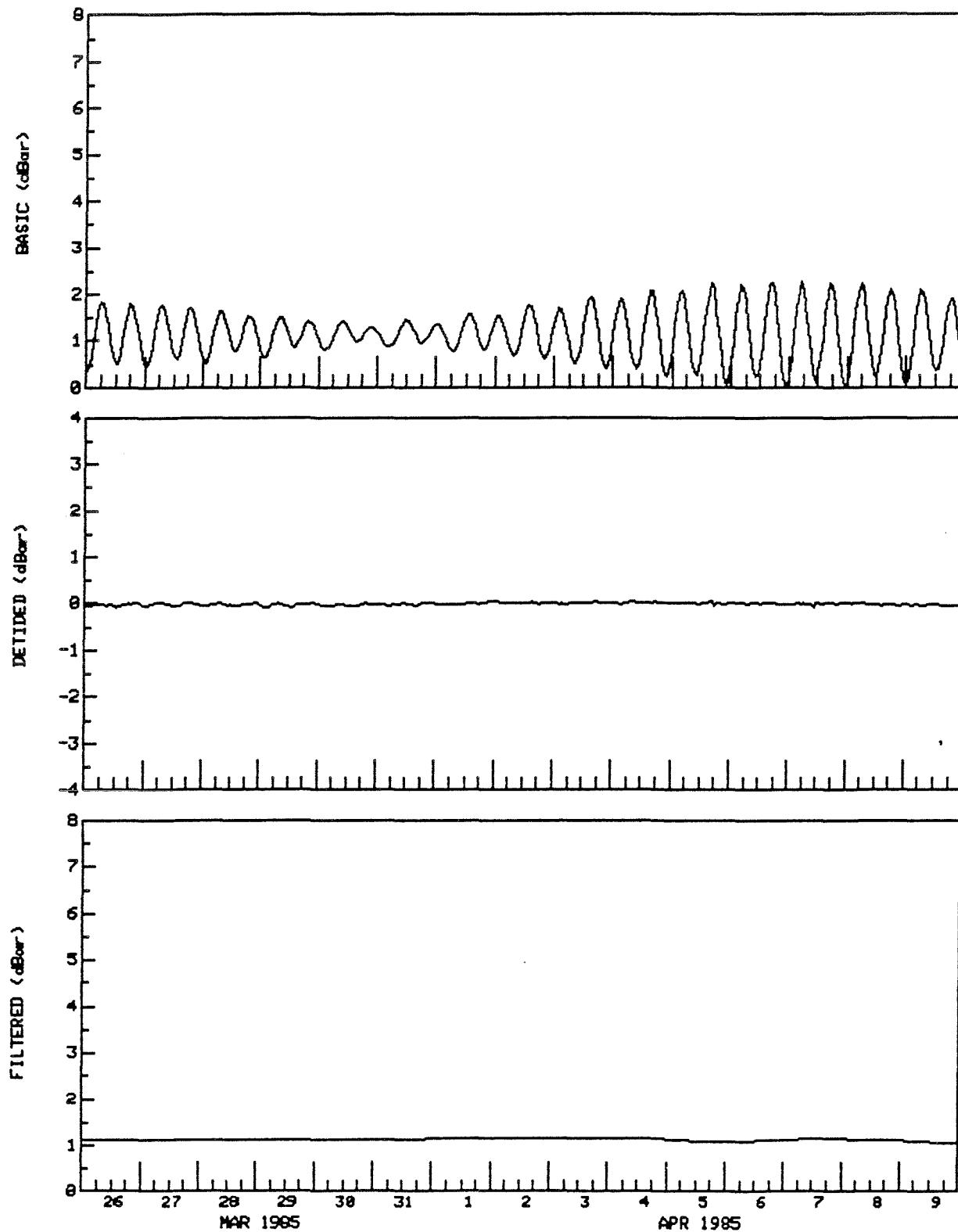
81 46' 48"N 64 13' 00"W

AANDERAA WLR5 #191

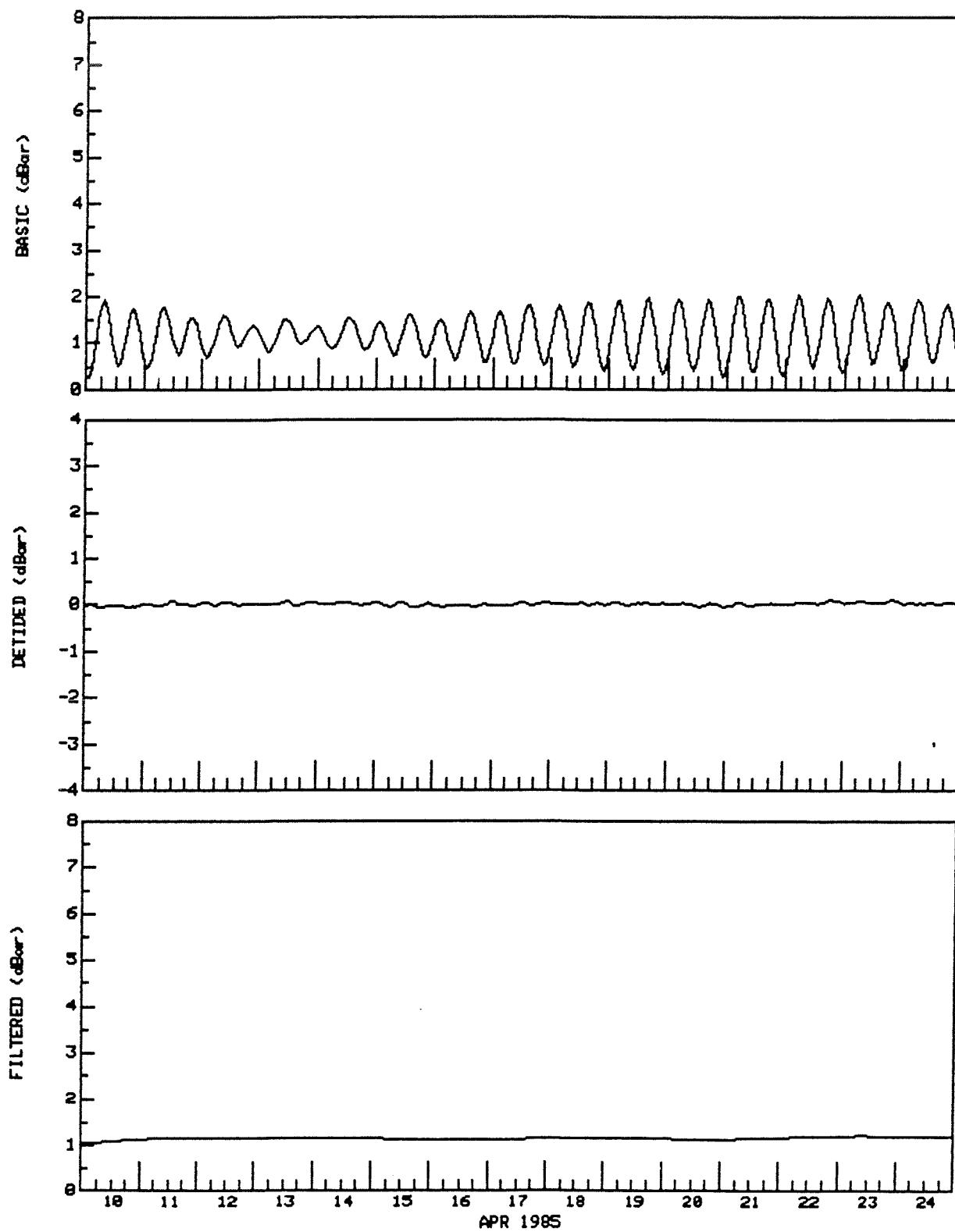
DT(min) 60



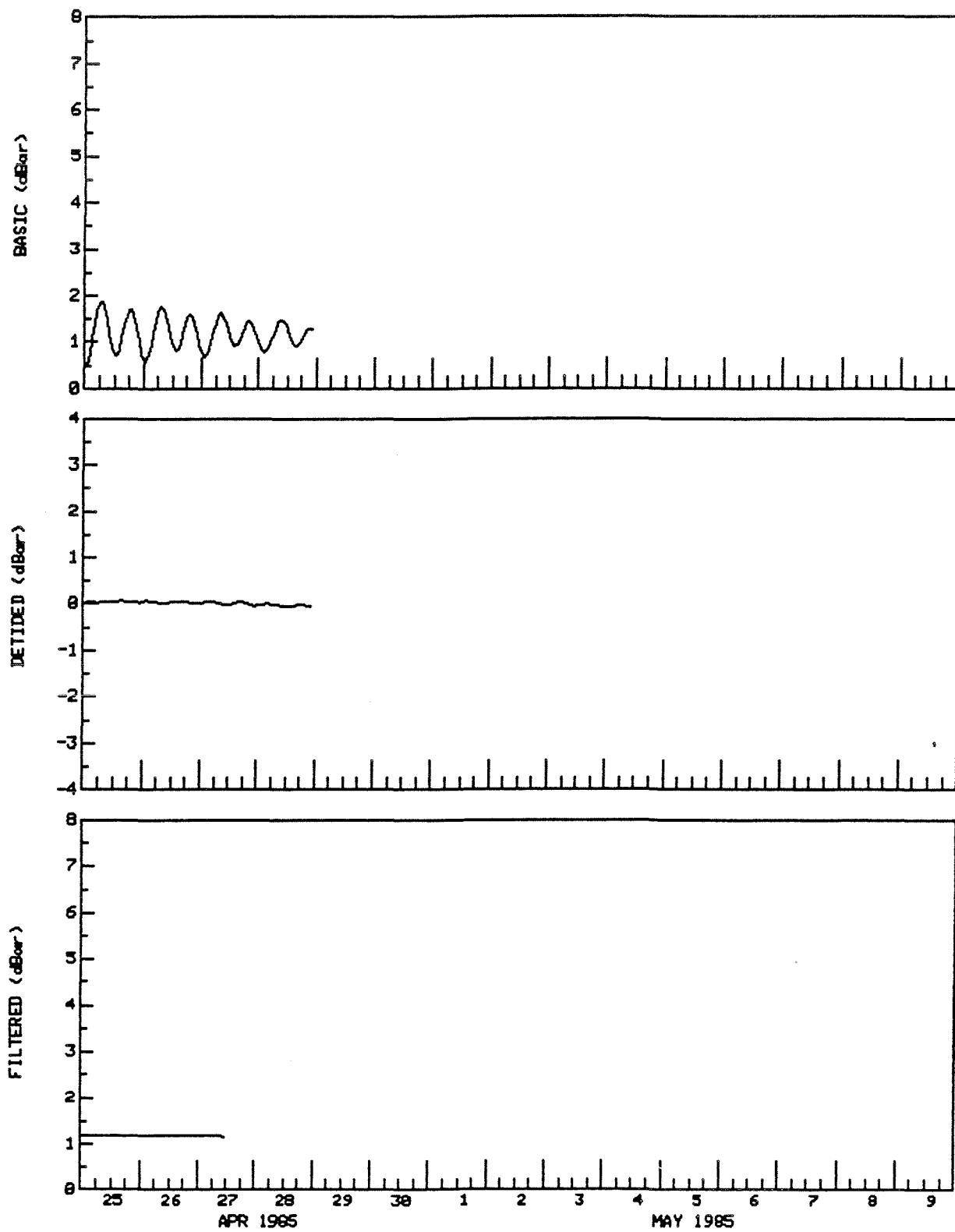
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #33 CAPE MURCHISON DEPTH(m) 16 TYPE DESPIKED
81 46' 48"N 64 13' 00"W AANDERAA WLR5 #191 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #33 CAPE MURCHISON DEPTH(m) 16 TYPE DESPIKED
81 46' 48"N 64 13' 00"W AANDERAA WLR5 #191 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
SITE #33 CAPE MURCHISON DEPTH(m) 16 TYPE DESPIKED
81 46' 48"N 64 13' 00"W AANDERAA WLR5 #191 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # 34****TIDE GAUGE # 595**

Site # 34: Cape Brevoort

Position: 81°58'30"N 60°14'00"W

Tide Gauge #: Aanderaa WLR5 #595

Date/Time of Deployment: 1985/03/09 15:40

Date/Time of Recovery: 1985/04/27 21:07

Sampling Interval: 30 min

Number Records on Tape: 2421

Statistics: Minimum Maximum Mean Std Dev

Relative Pressure

Detided Pressure - No Data -

Filtered Pressure

Data Quality: Timing perfect but data could not be translated
No temperature calibration

Data Processing Sequence: Not possible

TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE A****TIDE GAUGE # 341**

Site A: Central Baffin Bay

Position: 71 45' 48" N 71 40' 48" W

Instrument Type: Aanderaa WLR5 #341

Date/Time of Deployment: 1983/09/05 10:23

Date/Time of Recovery: No recovery date

Sampling Interval: 60 minutes

Number of Records on Tape: 15623

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.937	0.925	0.355
Detided Pressure	0.755	1.091	0.925	0.059
Filtered Pressure	-0.188	0.196	0.000	0.048

Data Quality: several spikes in both temperature and pressure signals.
tape ran out

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS
 STN: C.BAFFIN BAY LAT: 71 45 48.0 N
 DEPTH: 205 M LONG: 71 40 48.0 W
 START: 1100Z 5/ 9/83 END: 2400Z 5/ 9/84
 NO.OBS.= 8798 NO.PTS.ANAL.= 8798 MIDPT: 1700Z 6/ 3/84

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	0.9188	0.00
2	SA	0.00011407	0.0534	272.16
3	SSA	0.00022816	0.0245	120.23
4	MSM	0.00130978	0.0091	240.02
5	MM	0.00151215	0.0165	192.92
6	MSF	0.00282193	0.0097	176.72
7	MF	0.00305009	0.0291	229.63
8	ALP1	0.03439657	0.0016	292.93
9	2Q1	0.03570635	0.0019	305.62
10	SIG1	0.03590872	0.0013	287.74
11	Q1	0.03721850	0.0051	216.08
12	RHO1	0.03742087	0.0011	290.15
13	O1	0.03873065	0.0873	209.23
14	TAU1	0.03895881	0.0005	268.24
15	BET1	0.04004044	0.0009	247.00
16	N01	0.04026860	0.0110	213.62
17	CHI1	0.04047097	0.0033	208.76
18	P11	0.04143851	0.0096	251.70
19	P1	0.04155259	0.0799	246.21
20	S1	0.04166667	0.0212	352.76
21	K1	0.04178075	0.2622	251.32
22	PSI1	0.04189482	0.0071	55.14
23	PHI1	0.04200891	0.0018	300.89
24	THE1	0.04309053	0.0020	286.75
25	J1	0.04329290	0.0142	269.64
26	S01	0.04460268	0.0017	333.24
27	O01	0.04483084	0.0066	278.79
28	UPS1	0.04634299	0.0024	266.09
29	OQ2	0.07597494	0.0009	51.78
30	EPS2	0.07617730	0.0026	20.93
31	ZN2	0.07748711	0.0094	70.20
32	MU2	0.07768947	0.0133	61.16
33	N2	0.07899922	0.0792	107.61
34	NU2	0.07920164	0.0154	112.93
35	H1	0.08039731	0.0029	183.29
36	M2	0.08051139	0.3622	132.81
37	H2	0.08062547	0.0050	185.37
38	MKS2	0.08073956	0.0004	188.97
39	LDA2	0.08182120	0.0016	180.19
40	L2	0.08202356	0.0074	160.82
41	T2	0.08321923	0.0051	159.56
42	S2	0.08333331	0.1146	174.40
43	R2	0.08344740	0.0006	95.10
44	K2	0.08356148	0.0327	174.49
45	MSN2	0.08484548	0.0003	235.22
46	ETA2	0.08507365	0.0016	201.11
47	M03	0.11924207	0.0020	237.51
48	M3	0.12076712	0.0026	255.66
49	S03	0.12206399	0.0012	317.41
50	MK3	0.12229216	0.0004	252.57
51	SK3	0.12511408	0.0010	186.46
52	MN4	0.15951067	0.0004	52.21
53	M4	0.16102278	0.0012	136.52
54	SN4	0.16233259	0.0001	186.74
55	MS4	0.16384470	0.0011	234.16
56	MK4	0.16407287	0.0006	262.48
57	S4	0.16666669	0.0000	238.02
58	SK4	0.16689485	0.0001	282.62
59	2MK5	0.20280355	0.0002	59.24
60	2SK5	0.20844740	0.0001	347.64
61	2MN6	0.24002206	0.0003	68.77
62	M6	0.24153417	0.0004	130.90
63	2MS6	0.24435616	0.0002	219.96
64	2MK6	0.24458432	0.0002	219.40
65	2SM6	0.24717808	0.0001	289.73
66	MSK6	0.24740624	0.0000	328.08
67	3MK7	0.28331494	0.0002	67.11
68	M8	0.32204562	0.0001	347.26

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

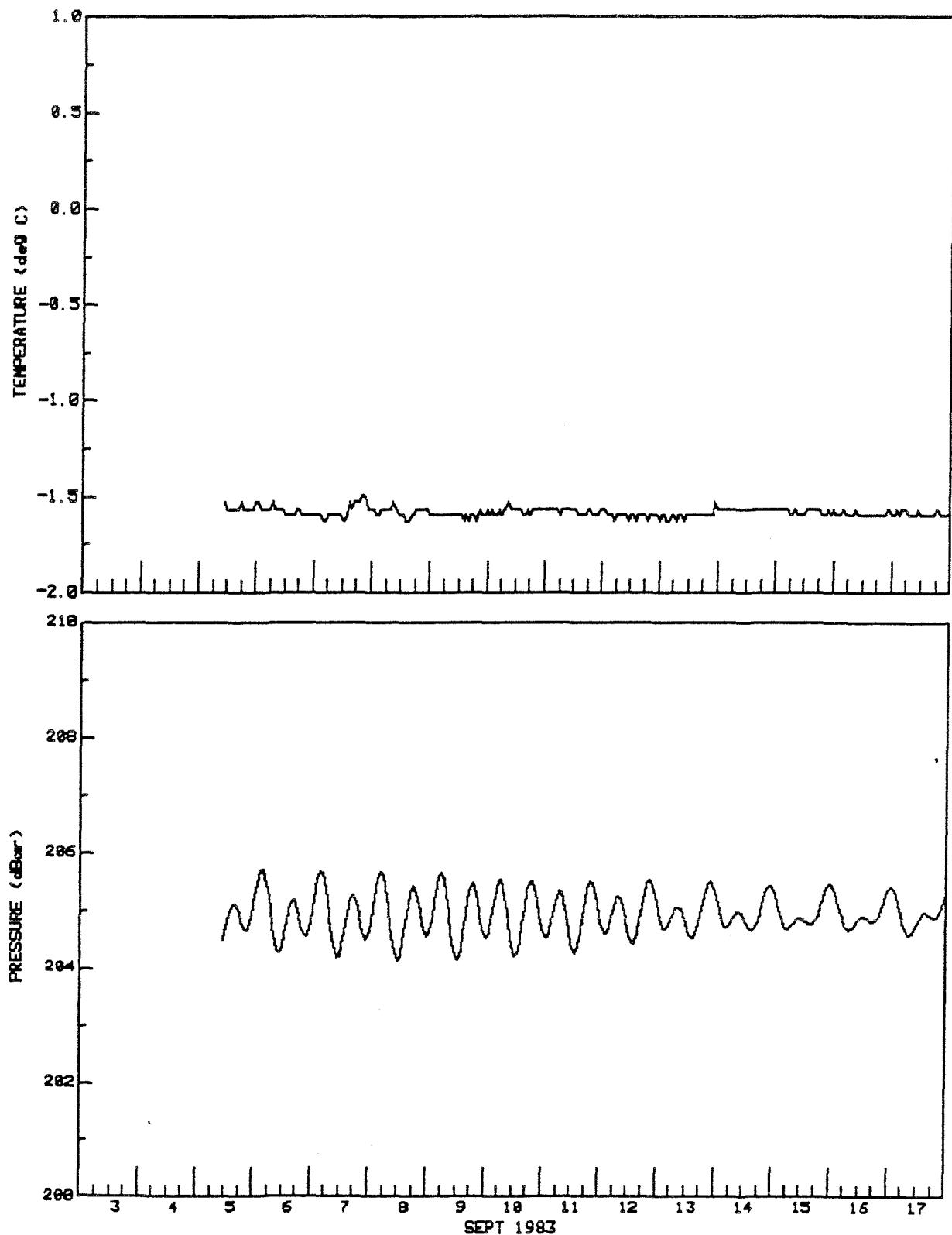
STN: C.BAFFIN BAY LAT: 71 45 48.0 N
 DEPTH: 205 M LONG: 71 40 48.0 W
 START: 100Z 25/ 4/84 END: 2300Z 25/ 4/85
 NO.OBS.= 8783 NO.PTS.ANAL.= 8783 MIDPT: 02 25/10/84

	NAME	FREQUENCY (CY/HR)	A (M)	G
	----	-----	---	---
1	Z0	0.00000000	0.9172	0.00
2	SA	0.00011407	0.0186	303.53
3	SSA	0.00022816	0.0189	207.39
4	MSM	0.00130978	0.0066	140.64
5	MM	0.00151215	0.0081	213.09
6	MSF	0.00282193	0.0152	185.48
7	MF	0.00305009	0.0280	211.63
8	ALP1	0.03439657	0.0013	316.25
9	2Q1	0.03570635	0.0010	273.20
10	SIG1	0.03590872	0.0018	313.91
11	Q1	0.03721850	0.0033	224.65
12	RHO1	0.03742087	0.0004	134.46
13	O1	0.03873065	0.0859	208.82
14	TAU1	0.03895881	0.0015	185.92
15	BET1	0.04004044	0.0013	271.44
16	NO1	0.04026860	0.0118	216.63
17	CHI1	0.04047097	0.0020	239.66
18	PI1	0.04143851	0.0084	262.20
19	P1	0.04155259	0.0774	246.30
20	S1	0.04166667	0.0133	343.74
21	K1	0.04178075	0.2619	250.40
22	PSI1	0.04189482	0.0029	119.80
23	PHI1	0.04200891	0.0011	234.48
24	THE1	0.04309053	0.0018	275.11
25	J1	0.04329290	0.0134	265.93
26	S01	0.04460268	0.0016	322.72
27	O01	0.04483084	0.0064	272.10
28	UPS1	0.04634299	0.0015	279.37
29	Q02	0.07597494	0.0014	16.65
30	EPS2	0.07617730	0.0031	14.23
31	ZN2	0.07748711	0.0112	62.27
32	MU2	0.07768947	0.0134	60.11
33	N2	0.07899922	0.0788	106.54
34	NU2	0.07920164	0.0150	113.86
35	H1	0.08039731	0.0061	202.23
36	M2	0.08051139	0.3630	131.92
37	H2	0.08062547	0.0015	159.56
38	MKS2	0.08073956	0.0013	66.65
39	LDA2	0.08182120	0.0015	168.46
40	L2	0.08202356	0.0076	164.15
41	T2	0.08321923	0.0059	157.06
42	S2	0.08333331	0.1159	173.36
43	R2	0.08344740	0.0009	126.43
44	K2	0.08356148	0.0329	172.60
45	MSN2	0.08484548	0.0002	254.96
46	ETA2	0.08507365	0.0013	223.74
47	M03	0.11924207	0.0018	241.00
48	M3	0.12076712	0.0026	259.14
49	S03	0.12206399	0.0012	319.46
50	MK3	0.12229216	0.0003	236.45
51	SK3	0.12511408	0.0007	175.22
52	MN4	0.15951067	0.0003	74.40
53	M4	0.16102278	0.0014	139.76
54	SN4	0.16233259	0.0003	231.01
55	MS4	0.16384470	0.0011	237.05
56	MK4	0.16407287	0.0007	246.70
57	S4	0.16666669	0.0002	167.20
58	SK4	0.16689485	0.0003	264.99
59	2MK5	0.20280355	0.0002	59.02
60	2SK5	0.20844740	0.0001	201.35
61	2MN6	0.24002206	0.0003	73.19
62	M6	0.24153417	0.0002	140.90
63	2MS6	0.24435616	0.0002	207.84
64	2MK6	0.24458432	0.0001	129.02
65	2SM6	0.24717808	0.0001	261.25
66	MSK6	0.24740624	0.0000	343.76
67	3MK7	0.28331494	0.0001	11.90
68	M8	0.32204562	0.0000	297.64

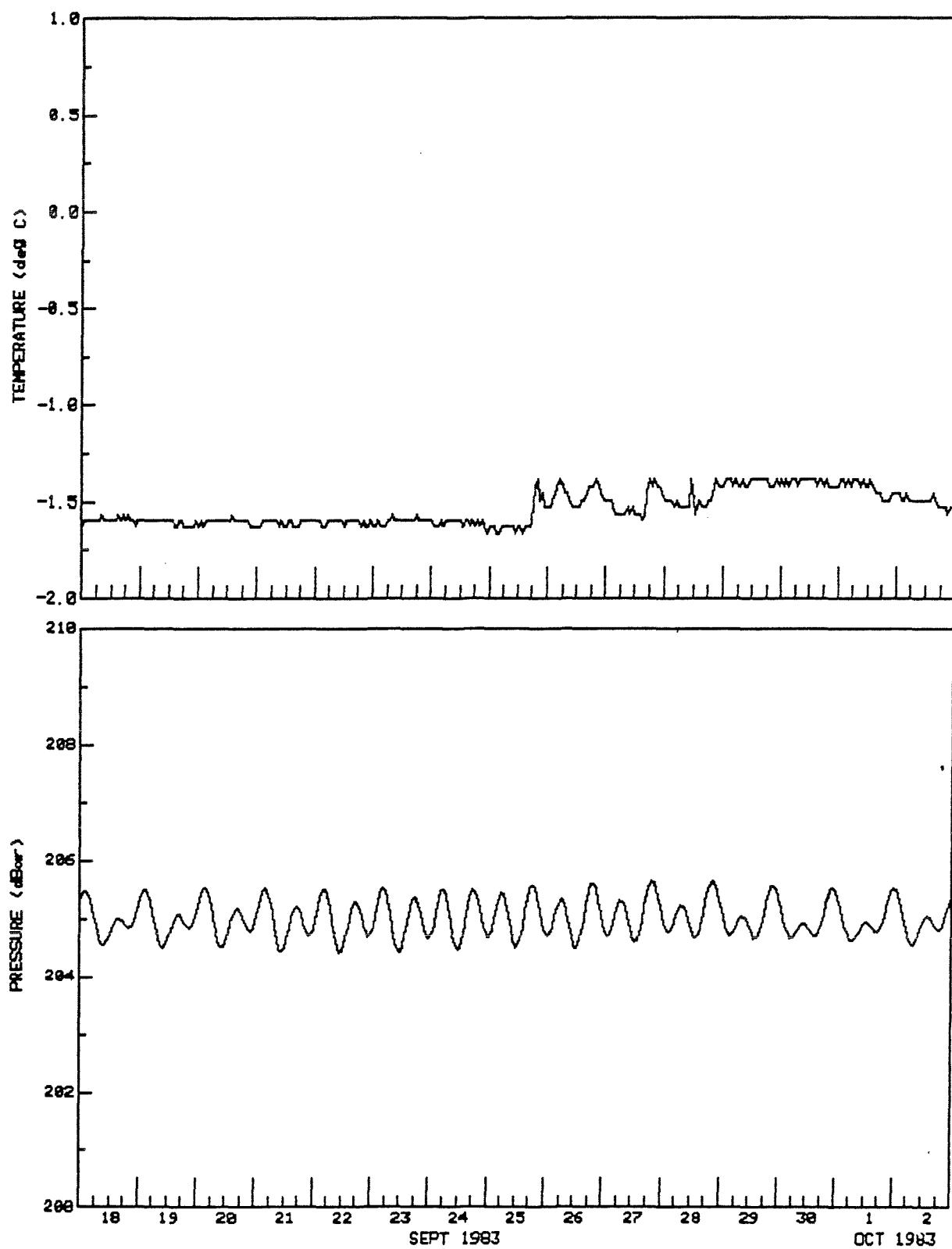
TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

TAPE 341/1

DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

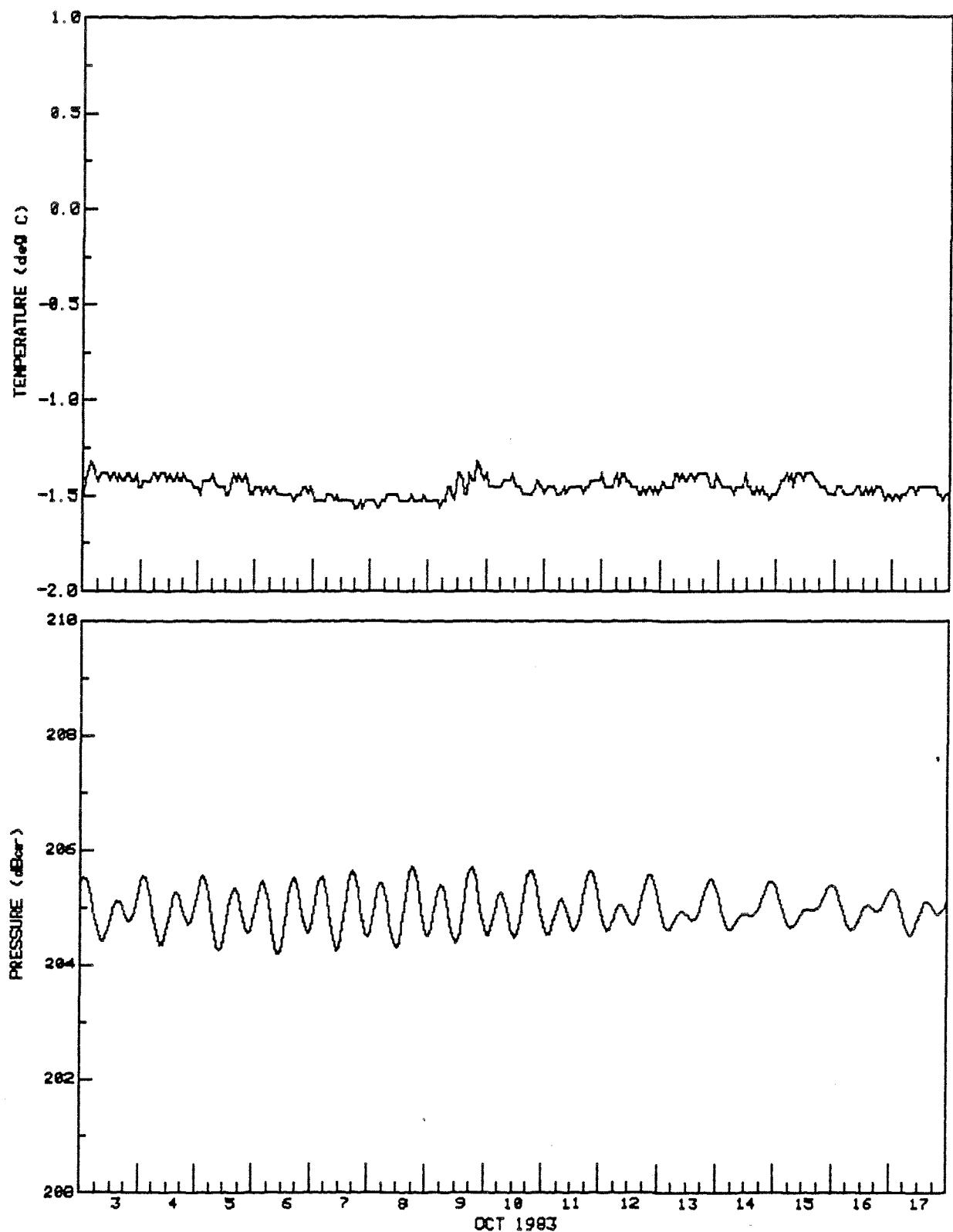
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CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLRS DT(min) 60



TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

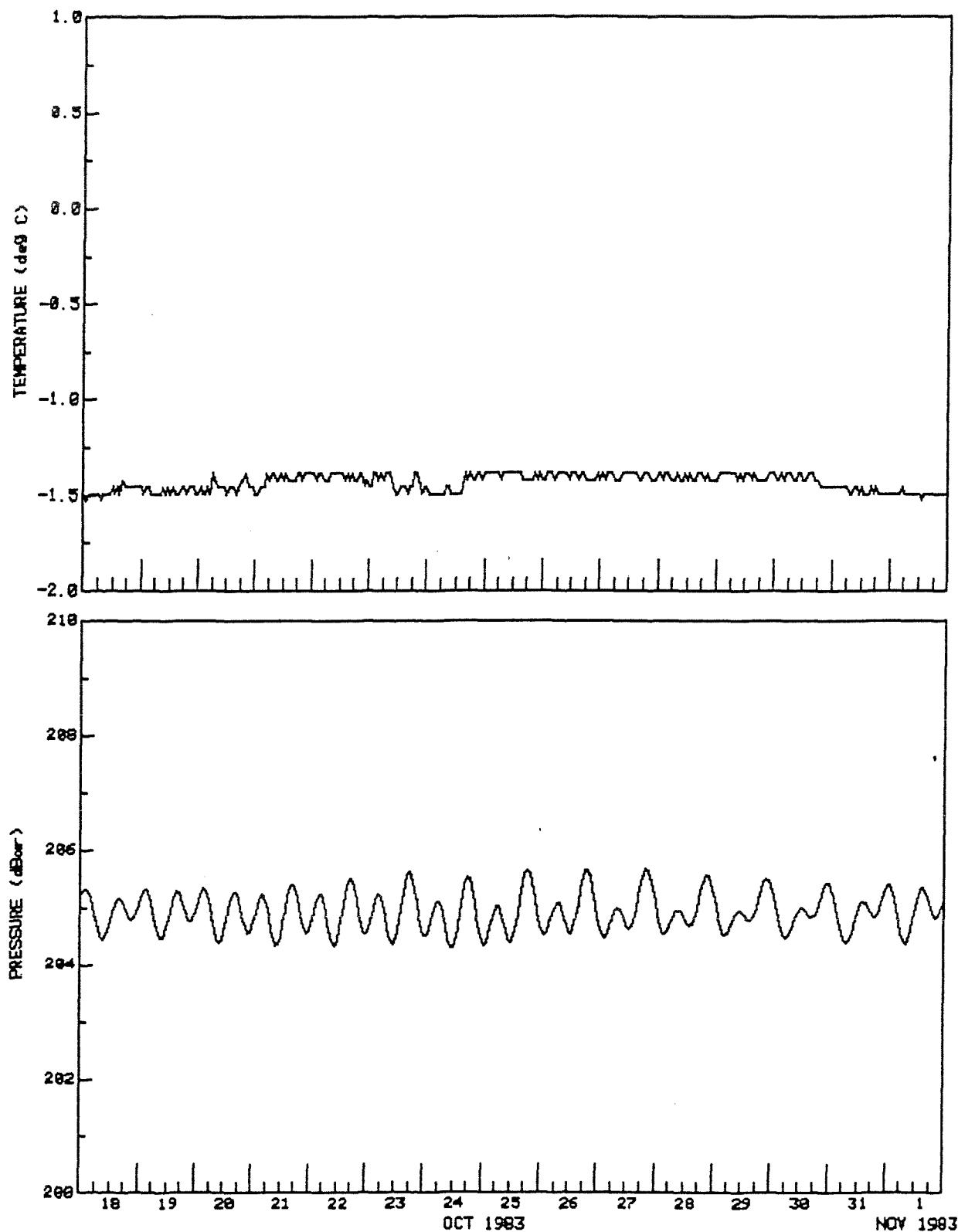
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DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

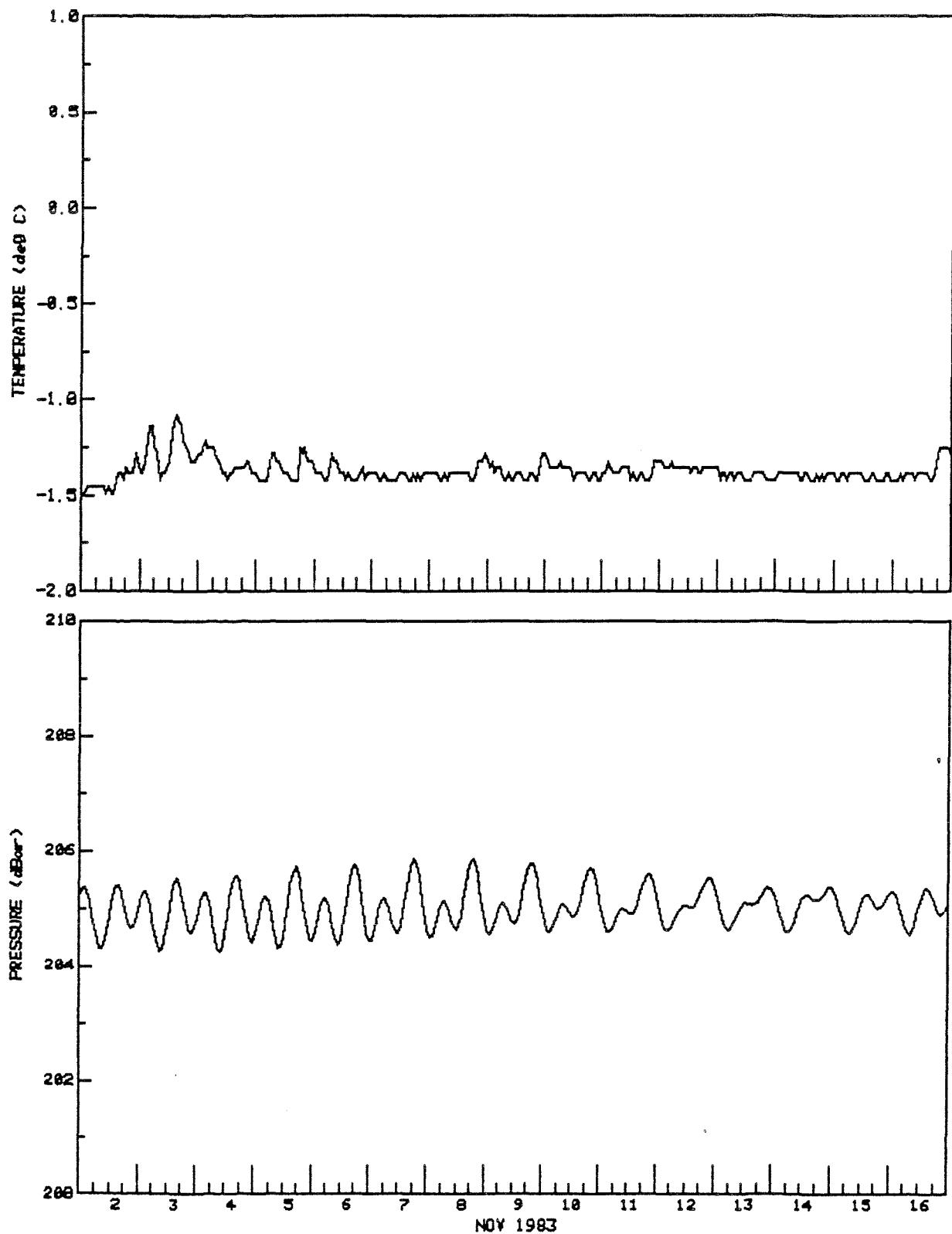
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DEPTH(m) 205
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

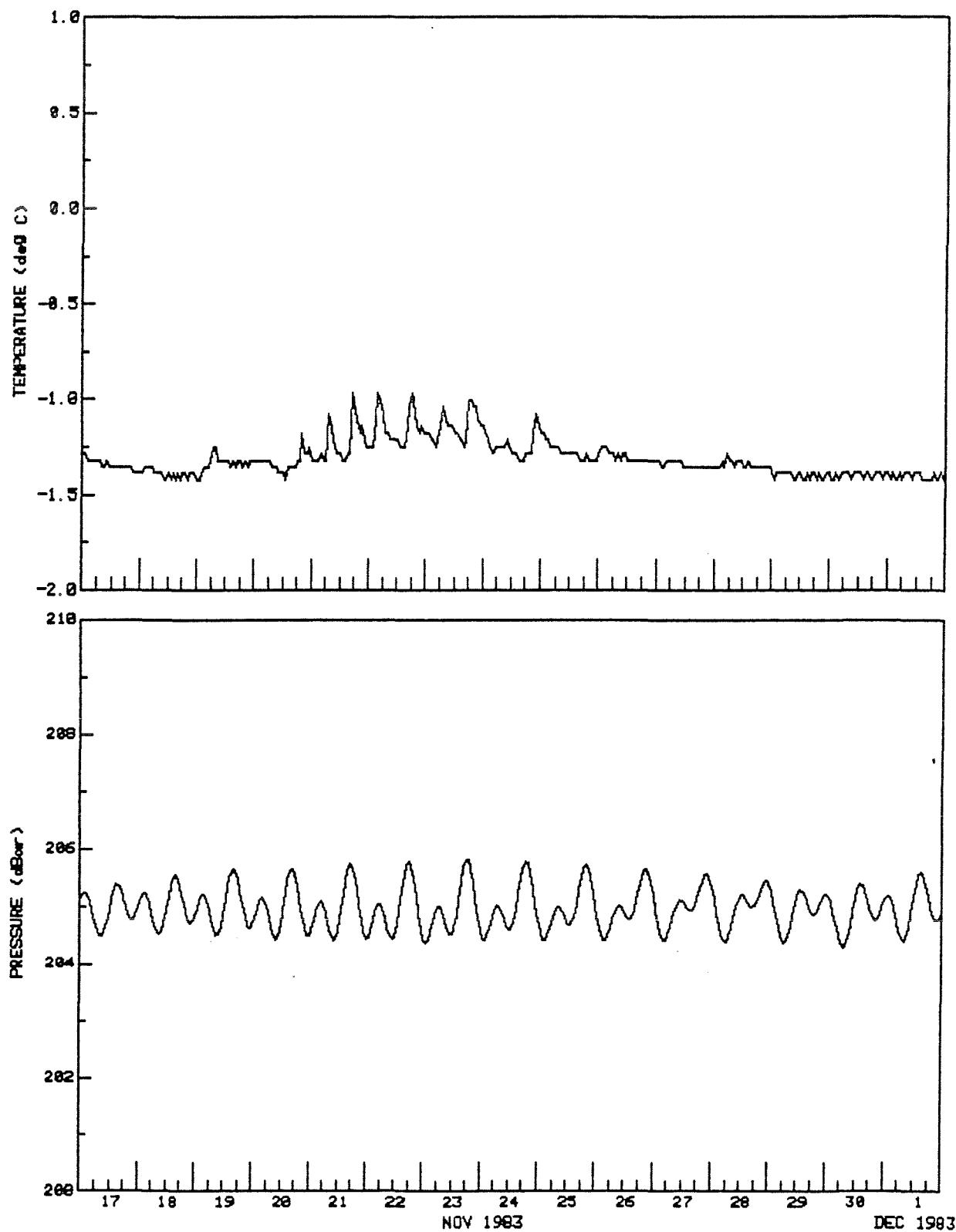
TAPE 341/1

DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

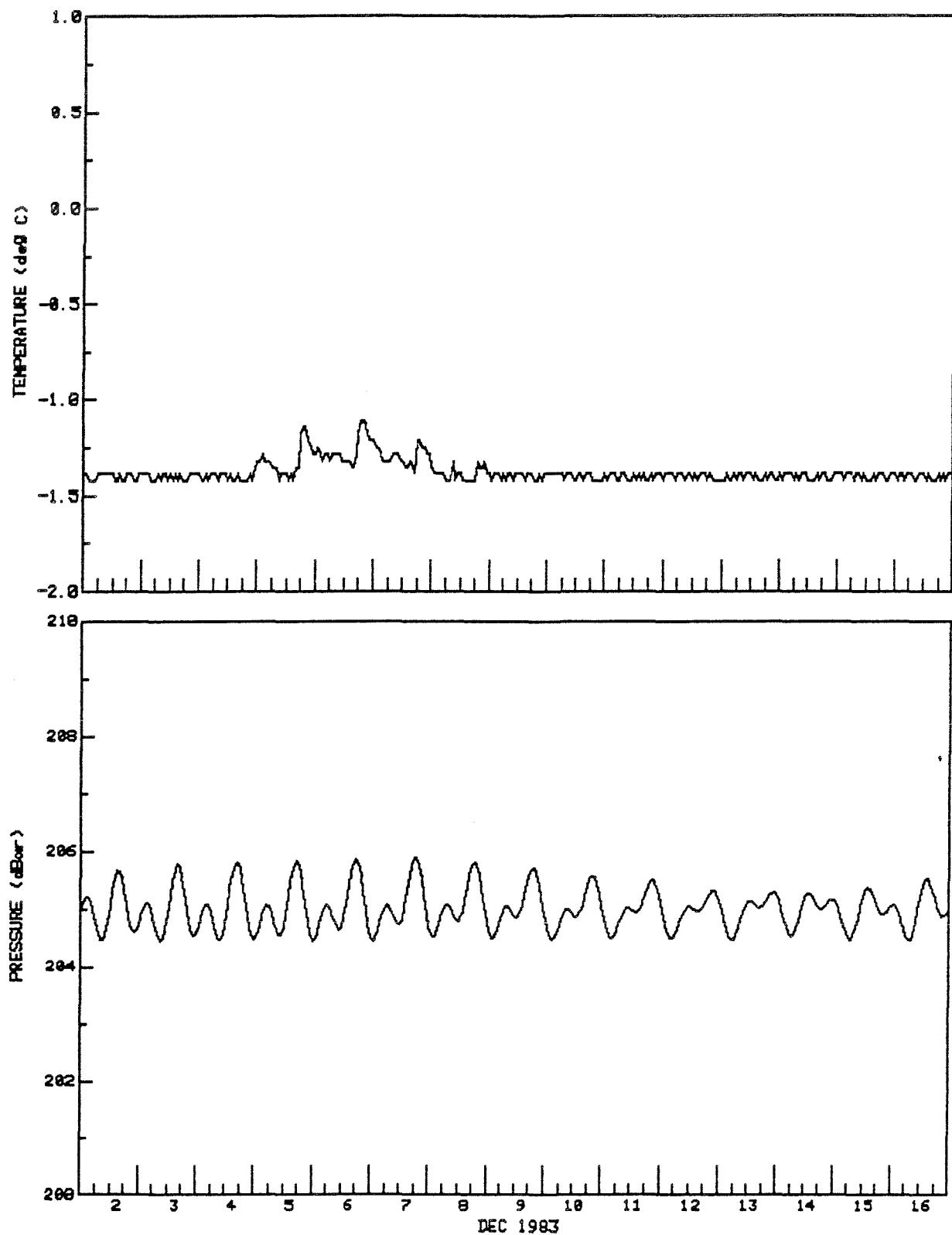
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DT(min) 60

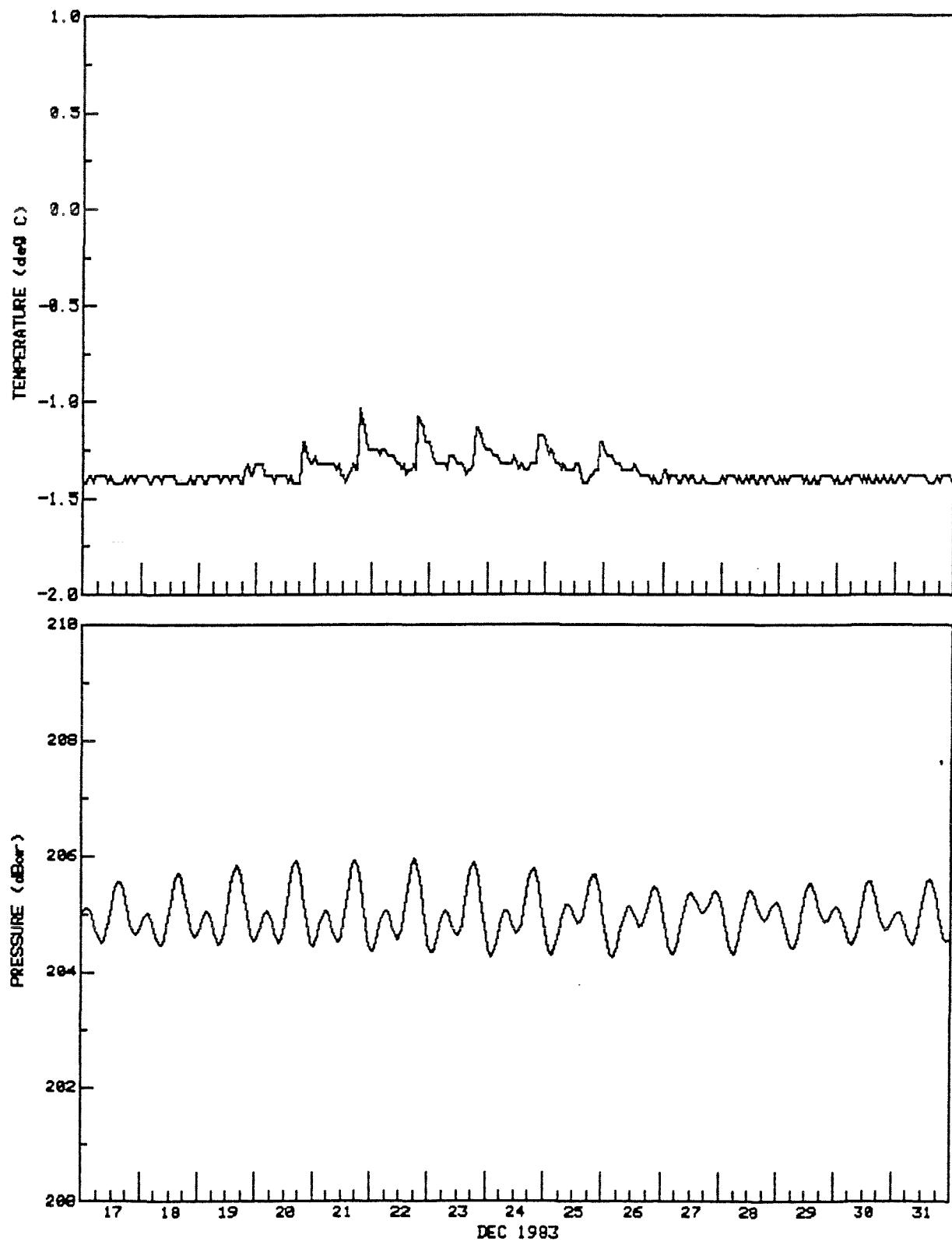
TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

TAPE 341/1

DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

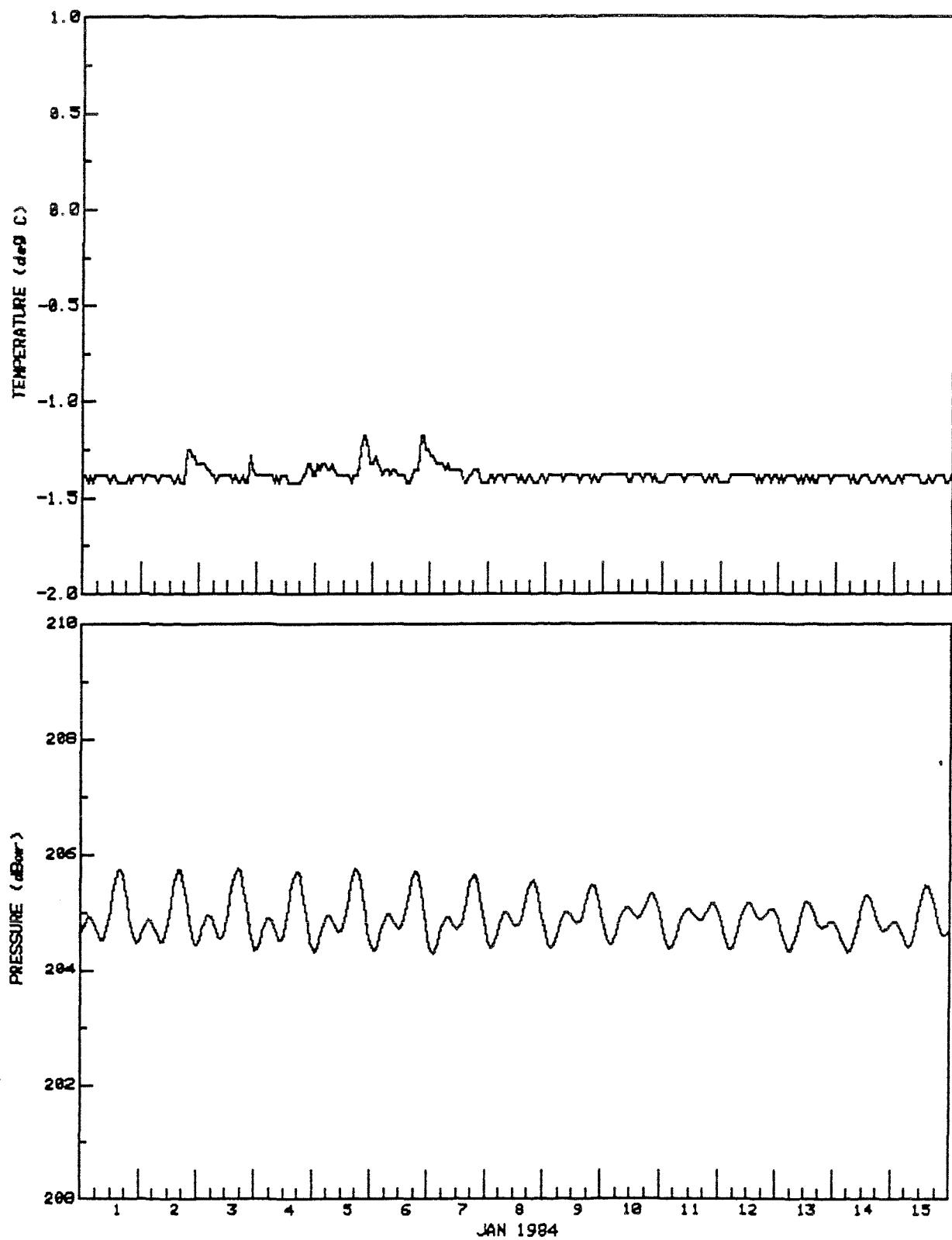
TIME SERIES OF TEMPERATURE AND PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

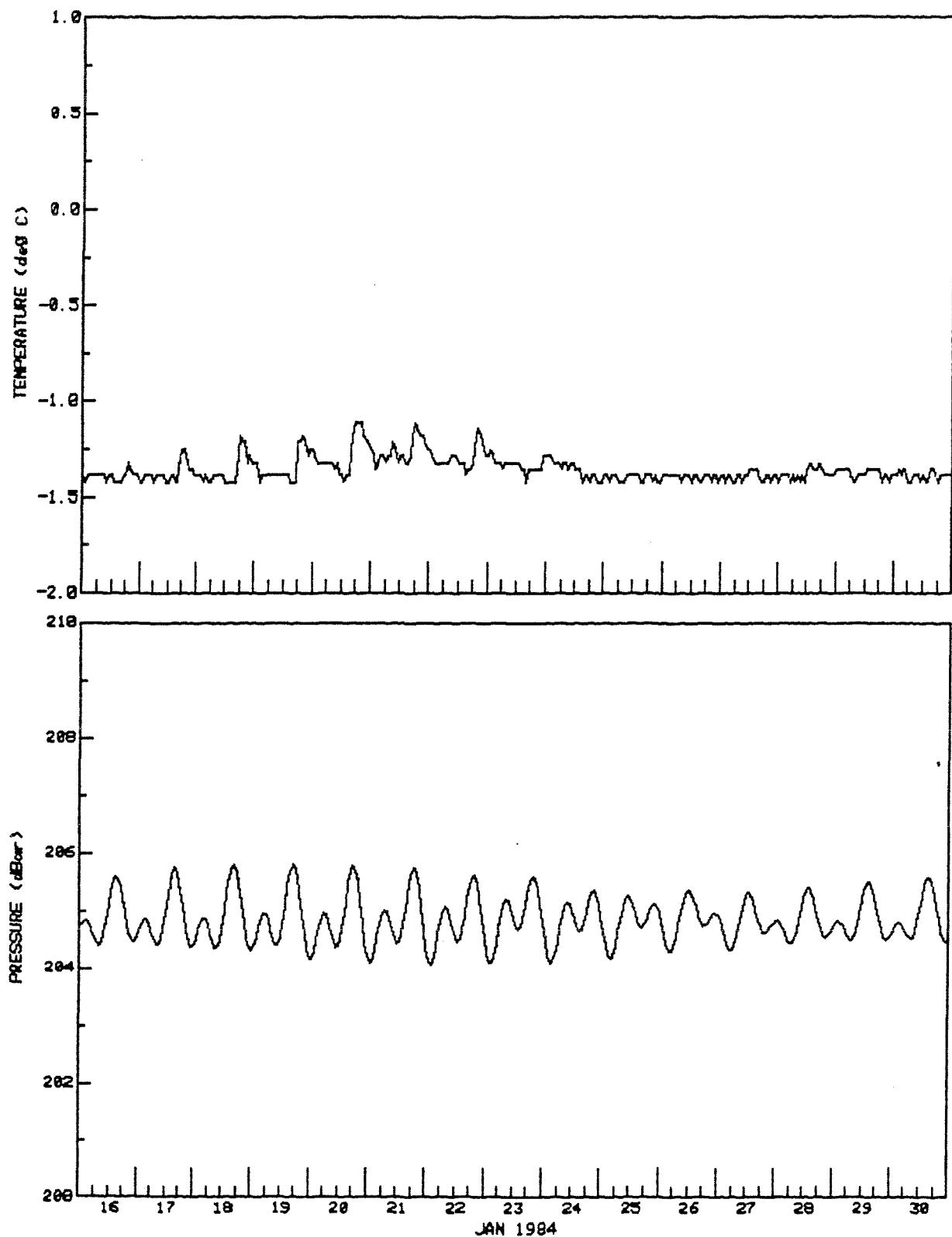
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DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

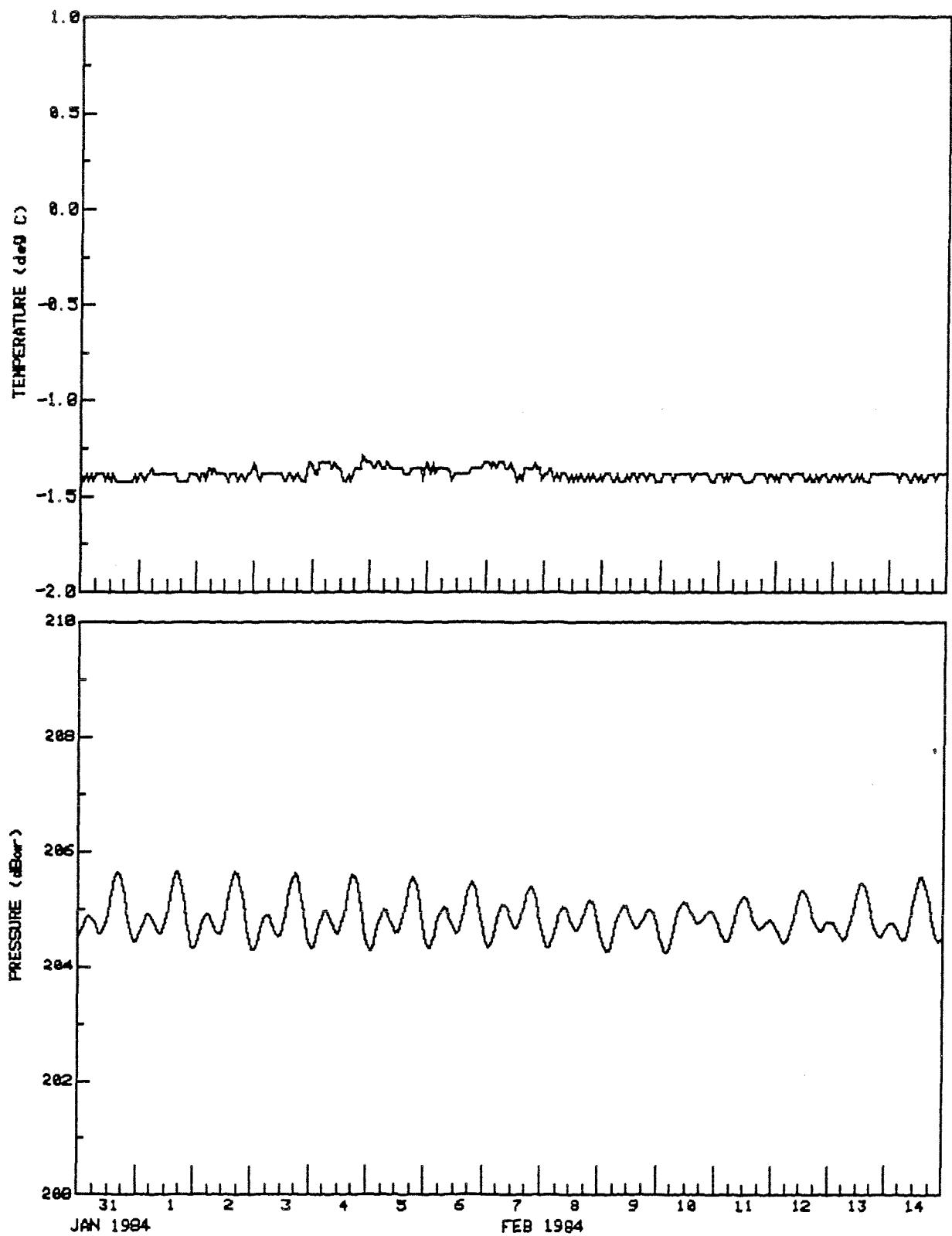
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DEPTH(m) 205
AANDERAA WLRSTYPE DESPIKED
DT(min) 60

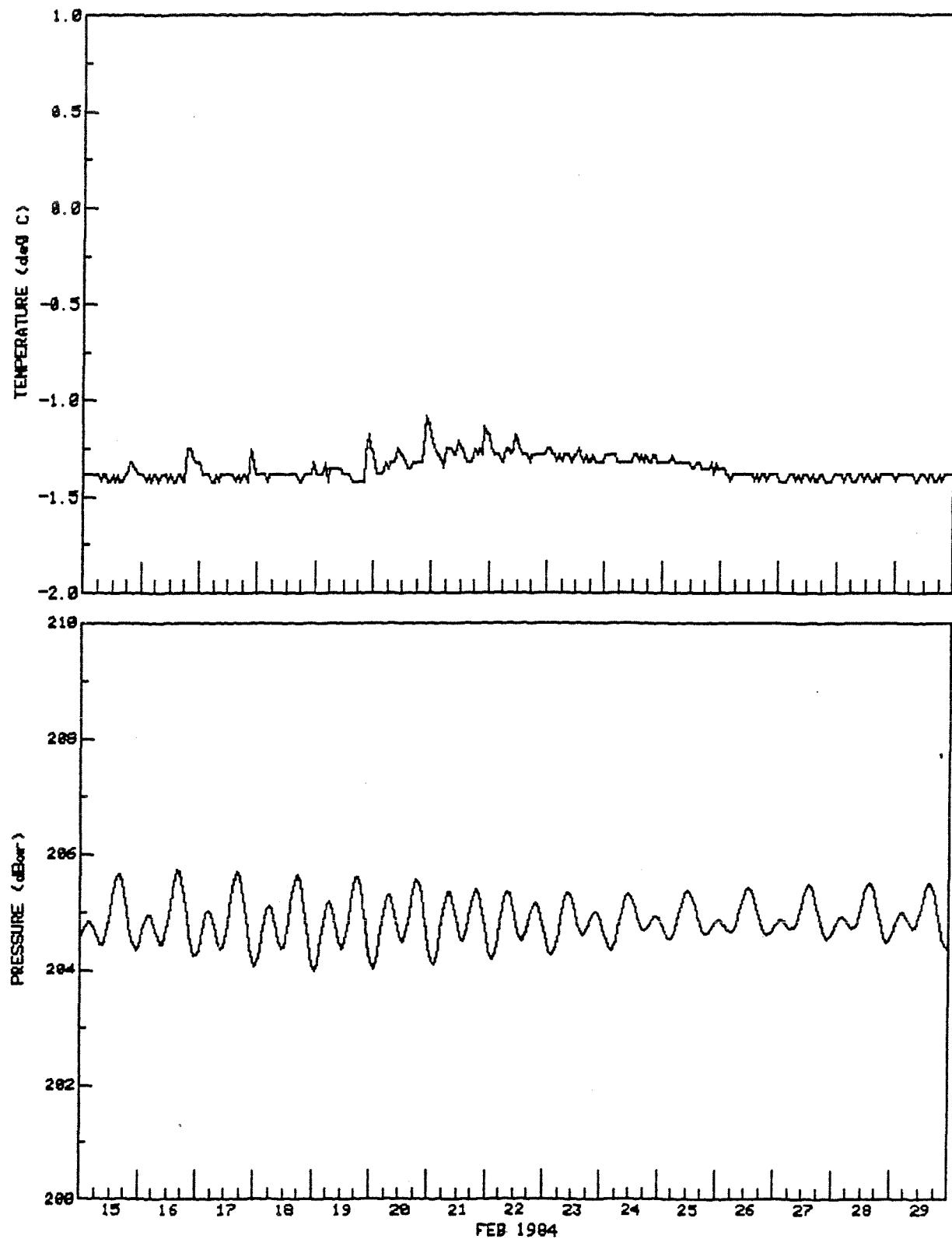
TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

TAPE 341/1

DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

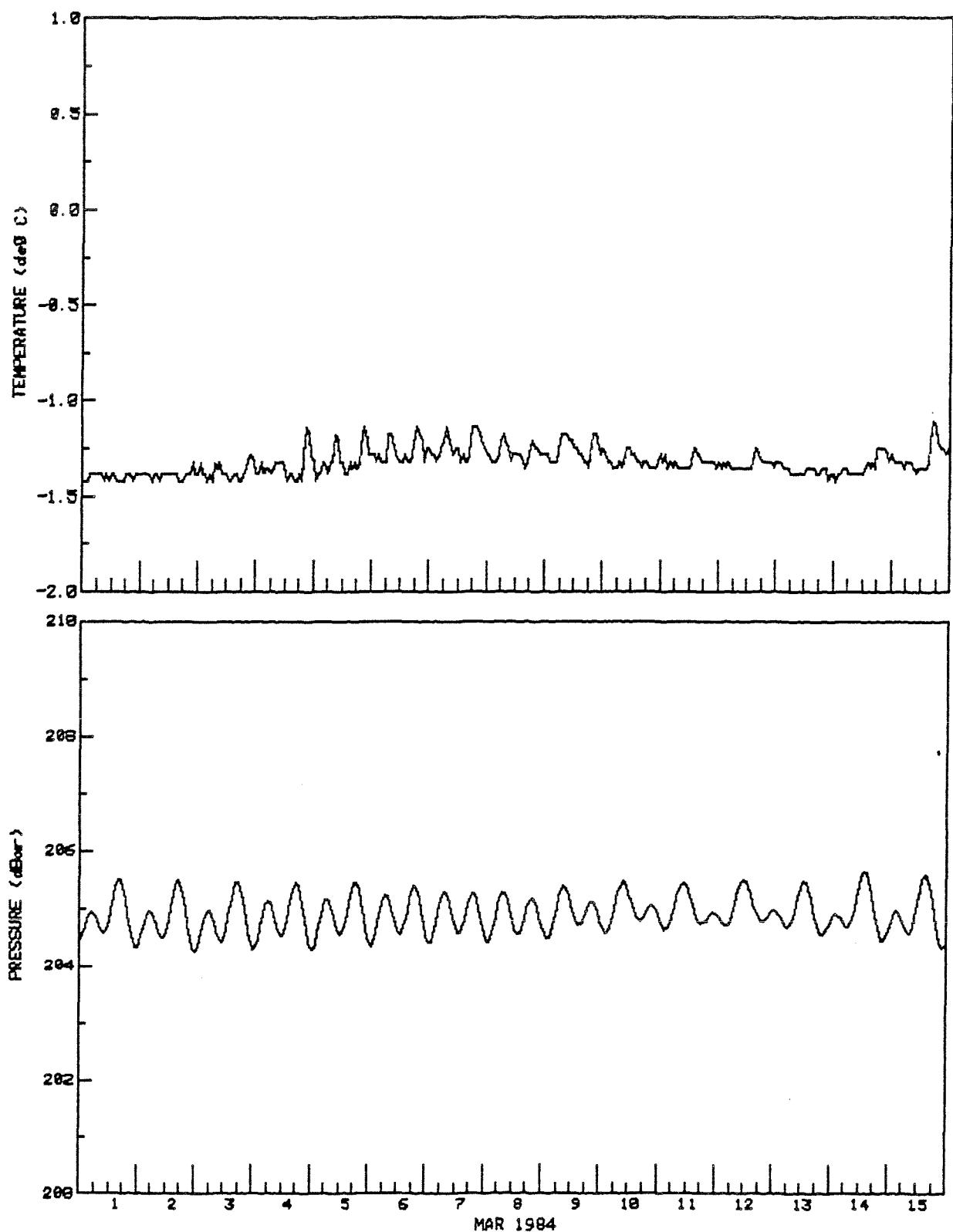
TIME SERIES OF TEMPERATURE AND PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

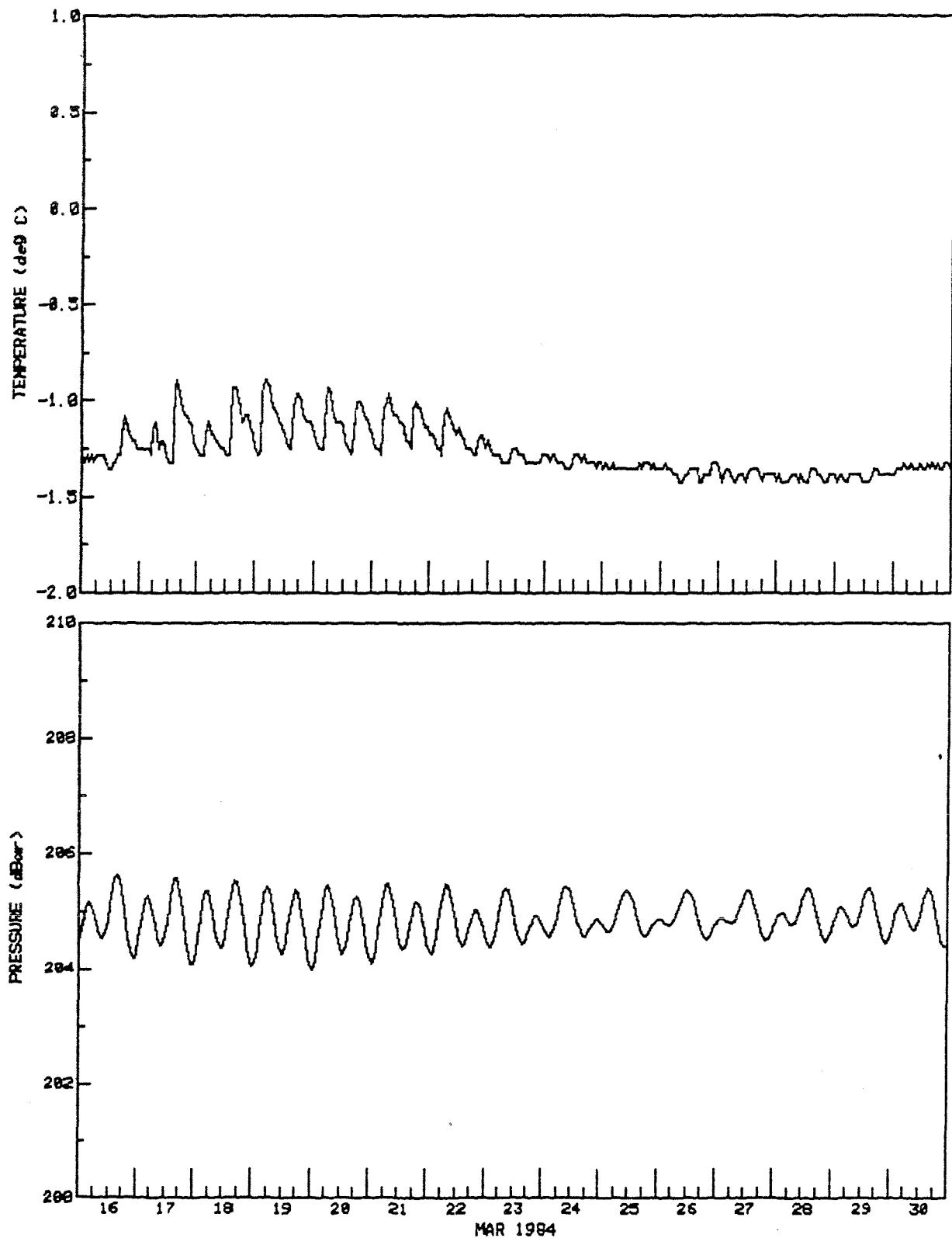
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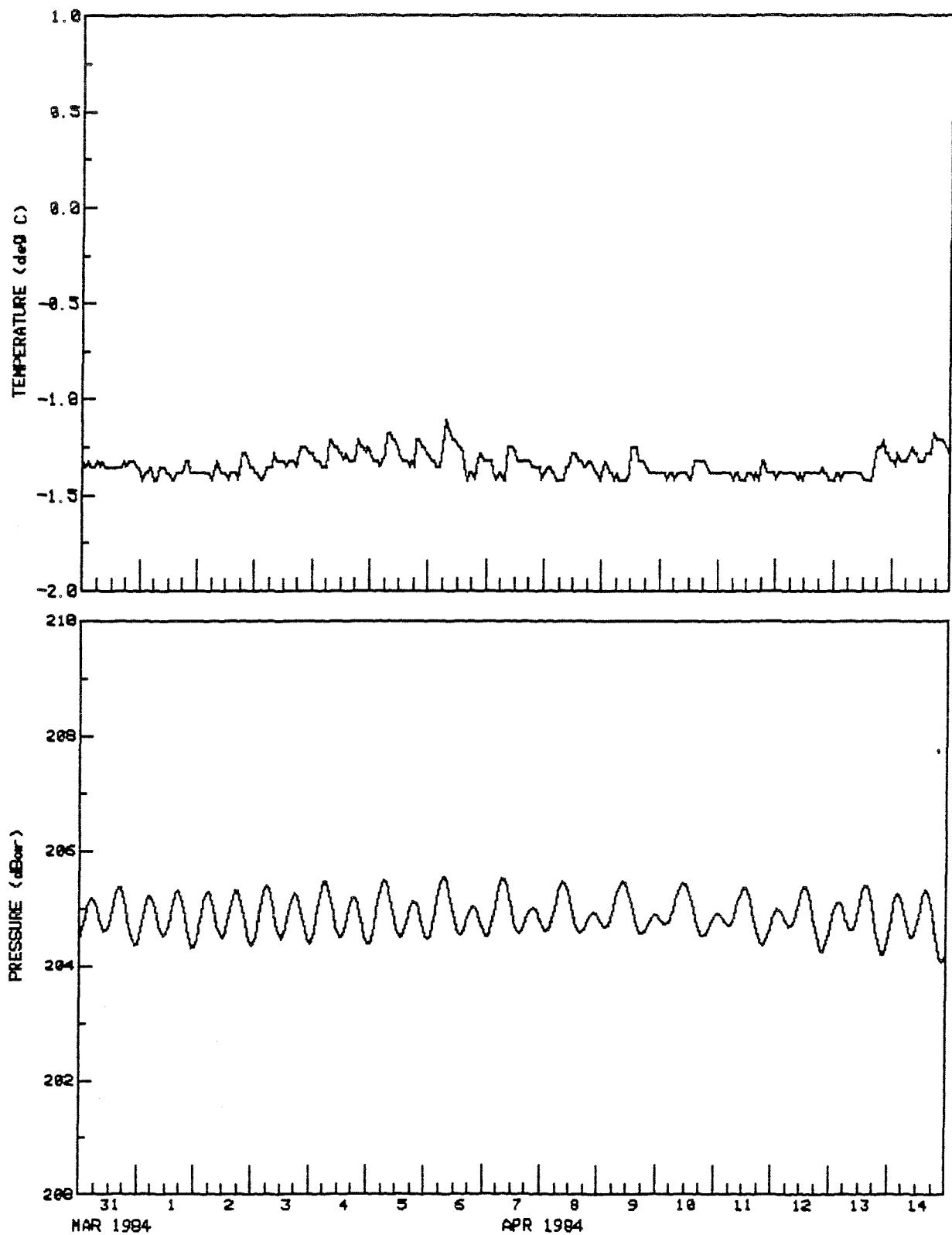
TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

TAPE 341/1

DEPTH(m) 205
AANDERAA WLRSTYPE DESPIKED
DT(min) 60

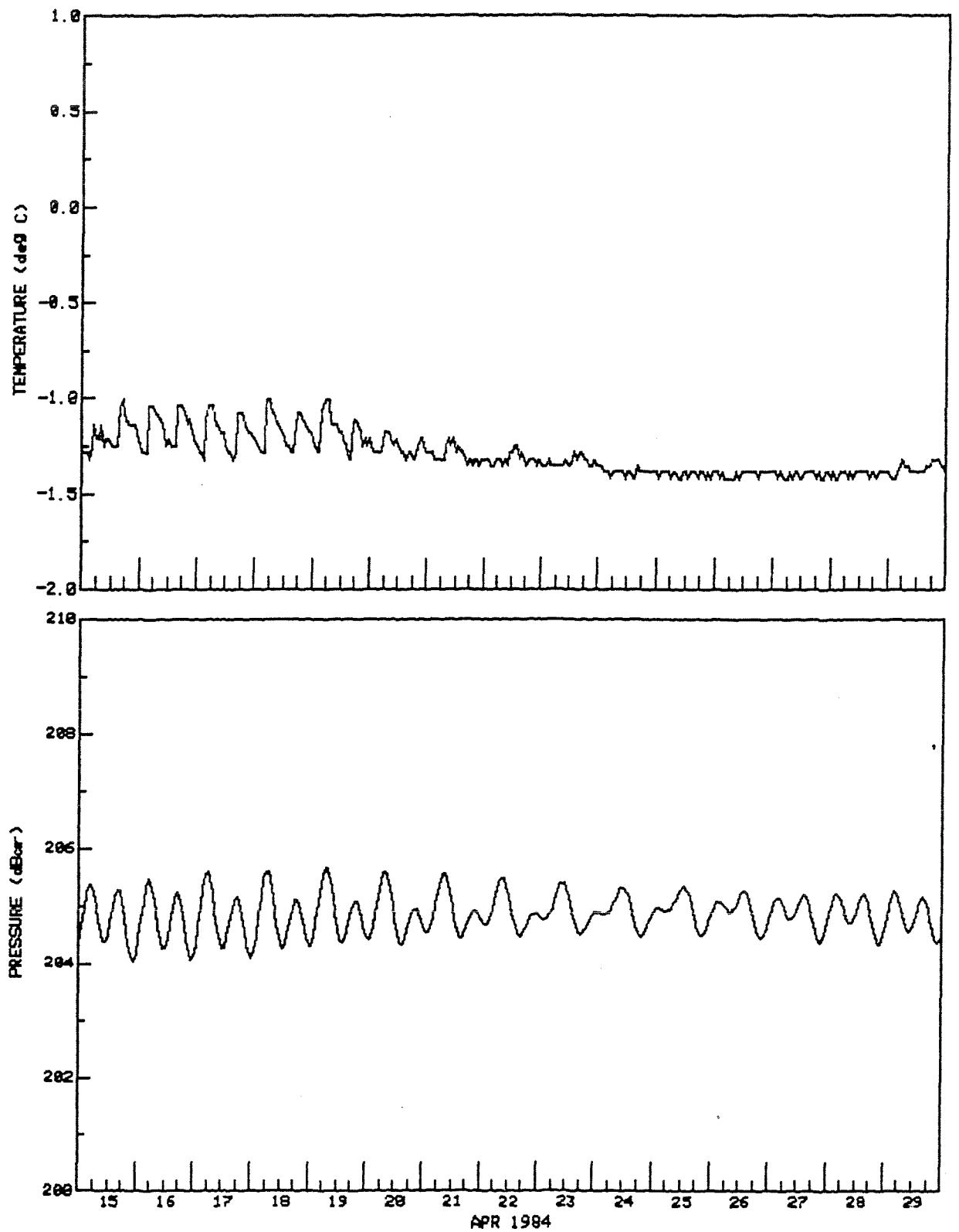
TIME SERIES OF TEMPERATURE AND PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

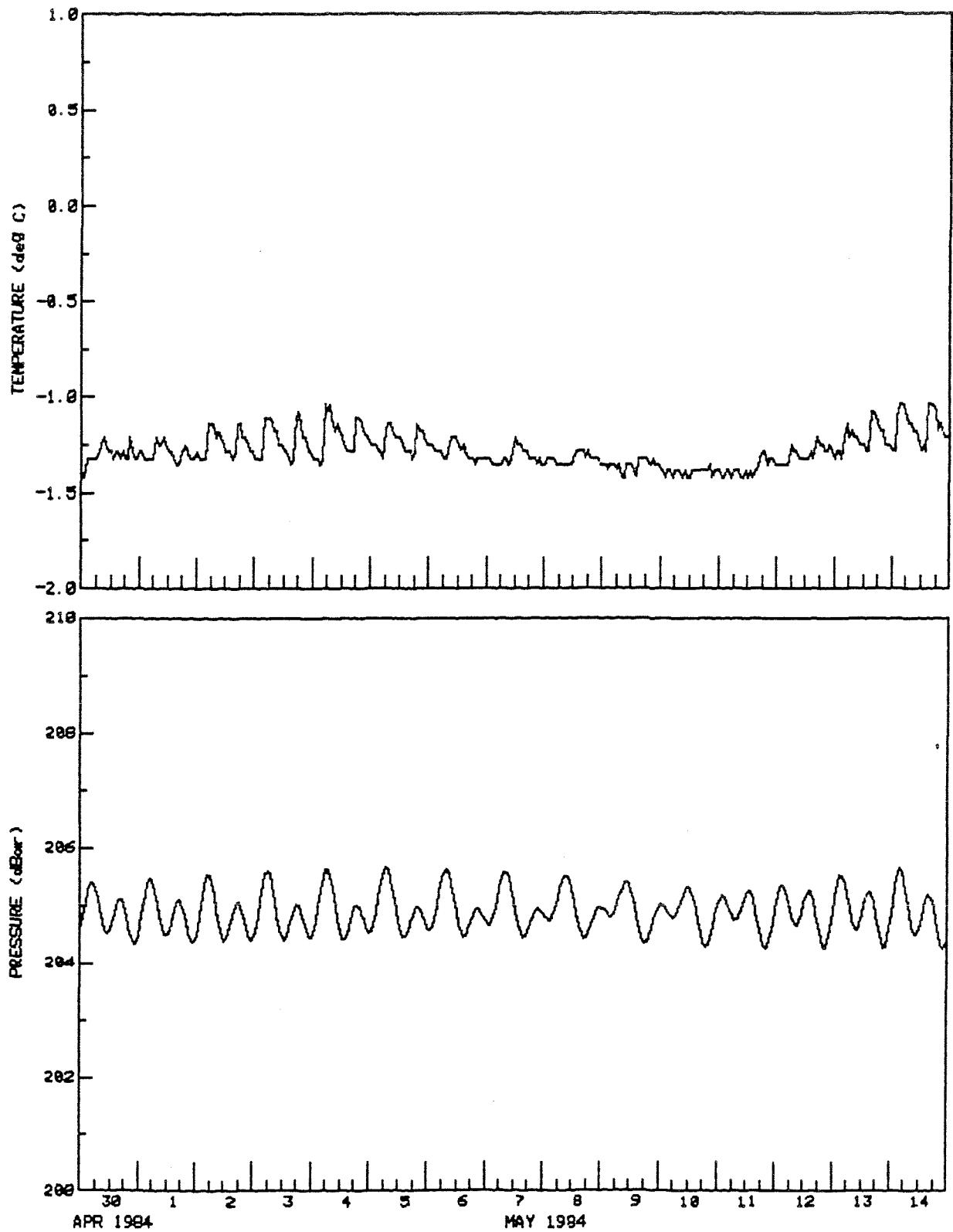
TAPE 341/1

DEPTH(m) 205
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
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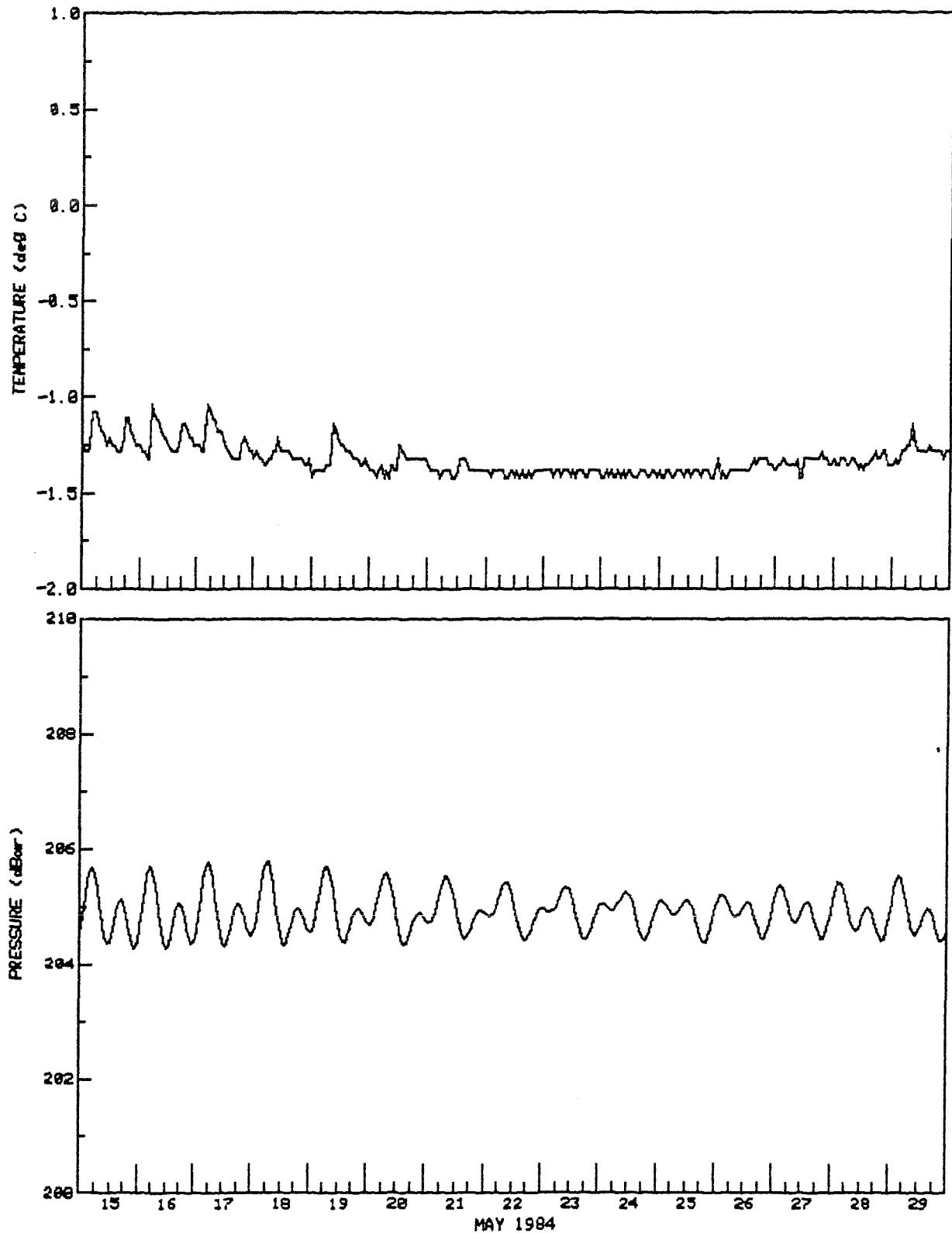
TAPE 341/1

DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

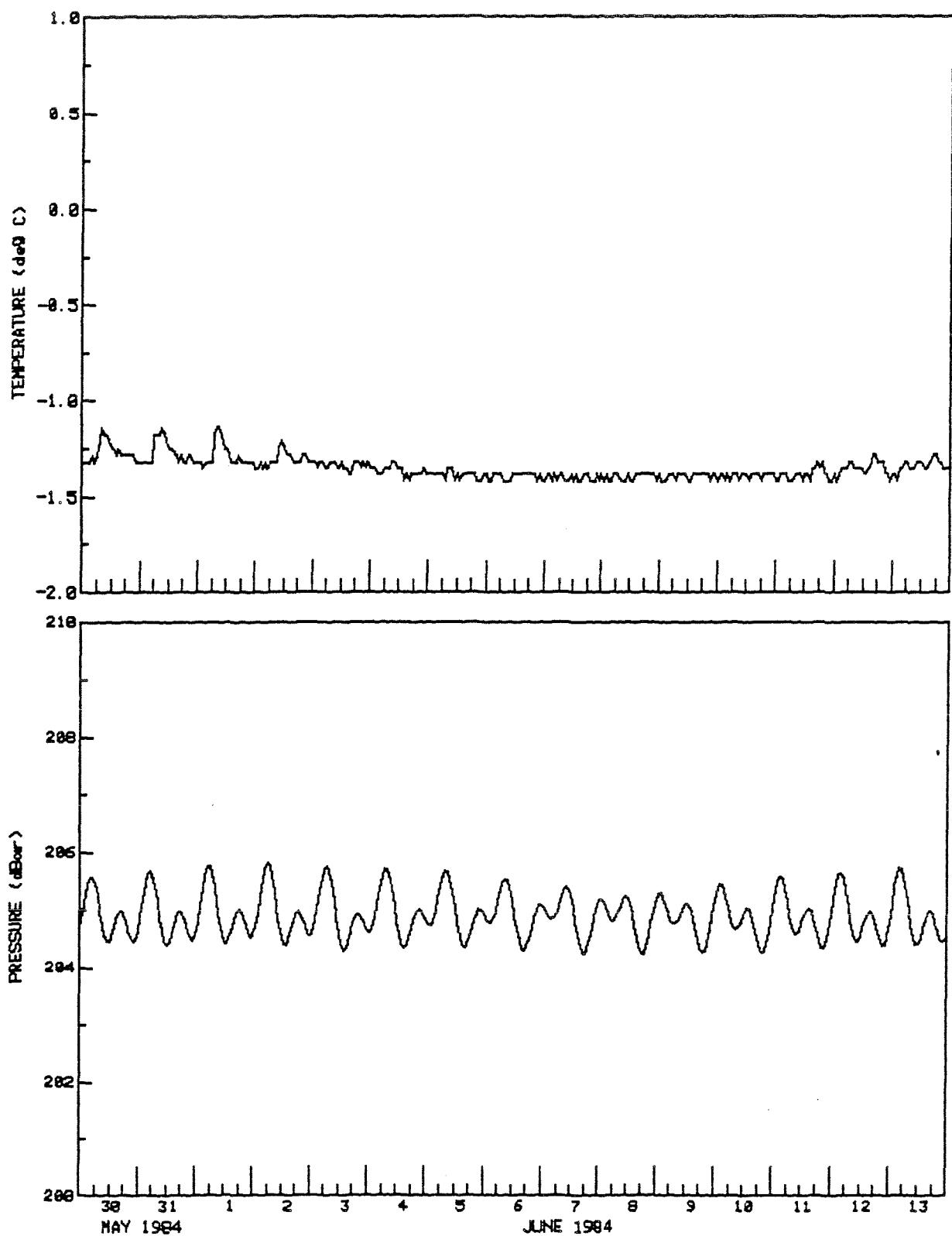
TAPE 341/1

DEPTH(m) 205
AANDERAA WLRSTYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

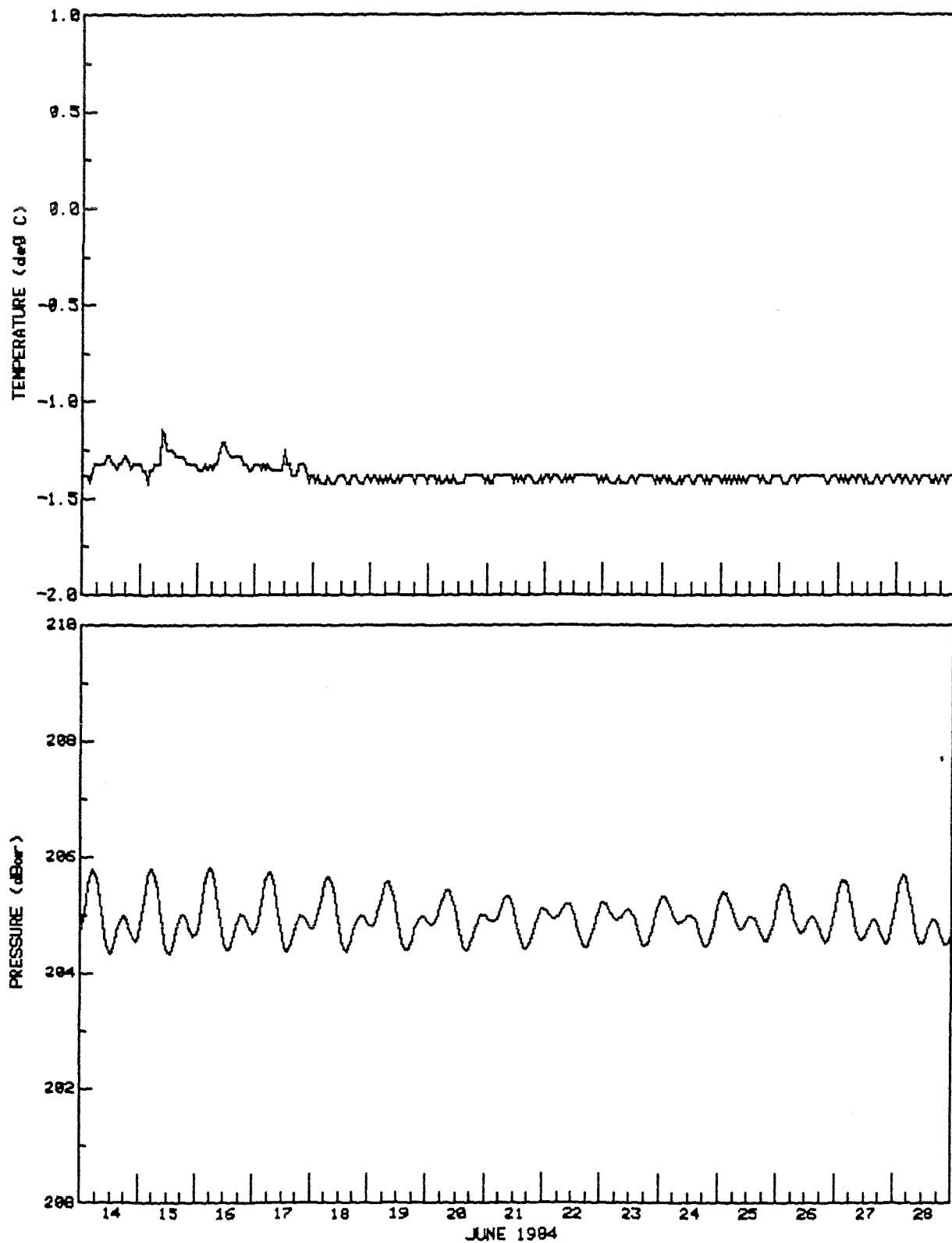
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DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

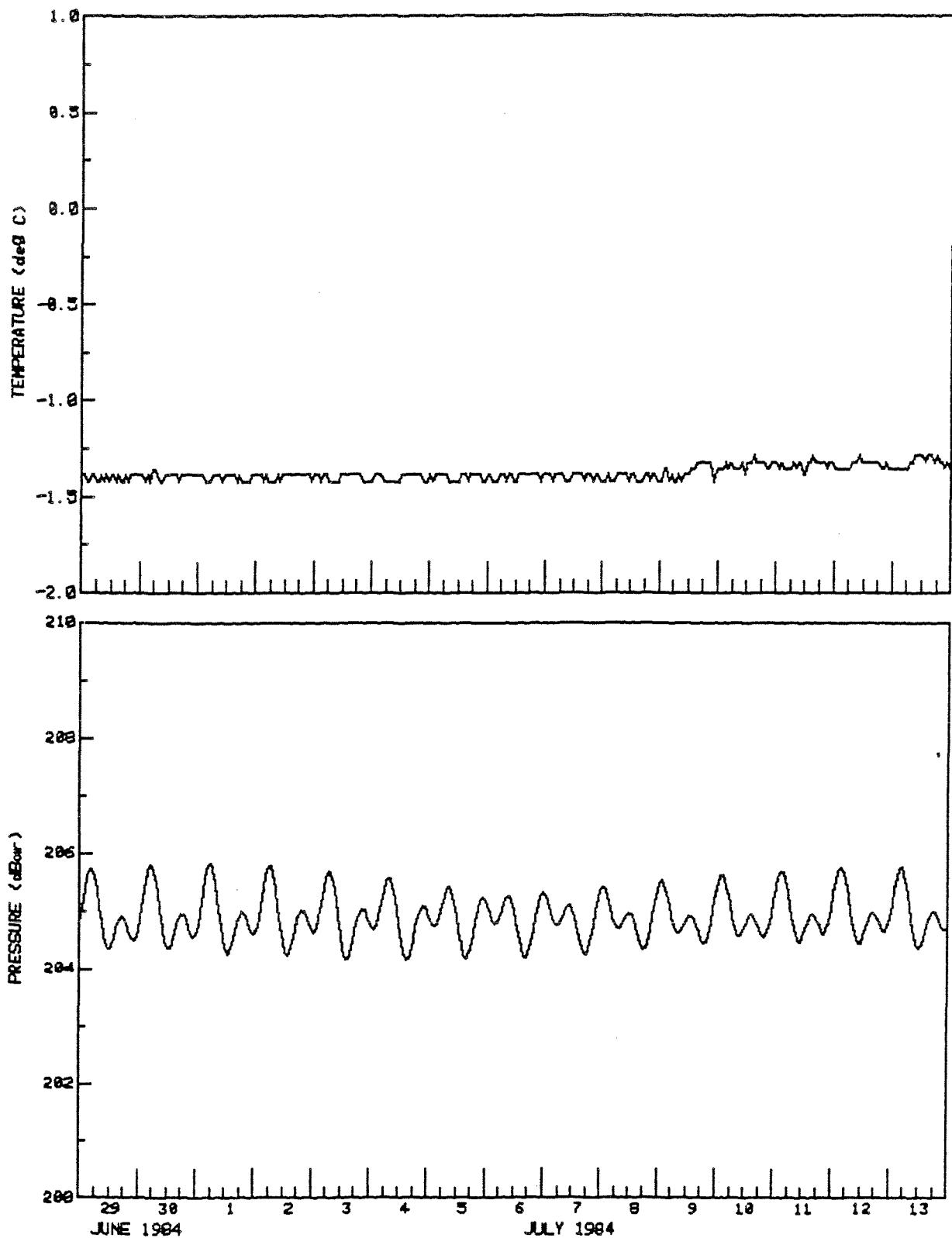
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DEPTH(m) 205
AANDERAA WLRSTYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

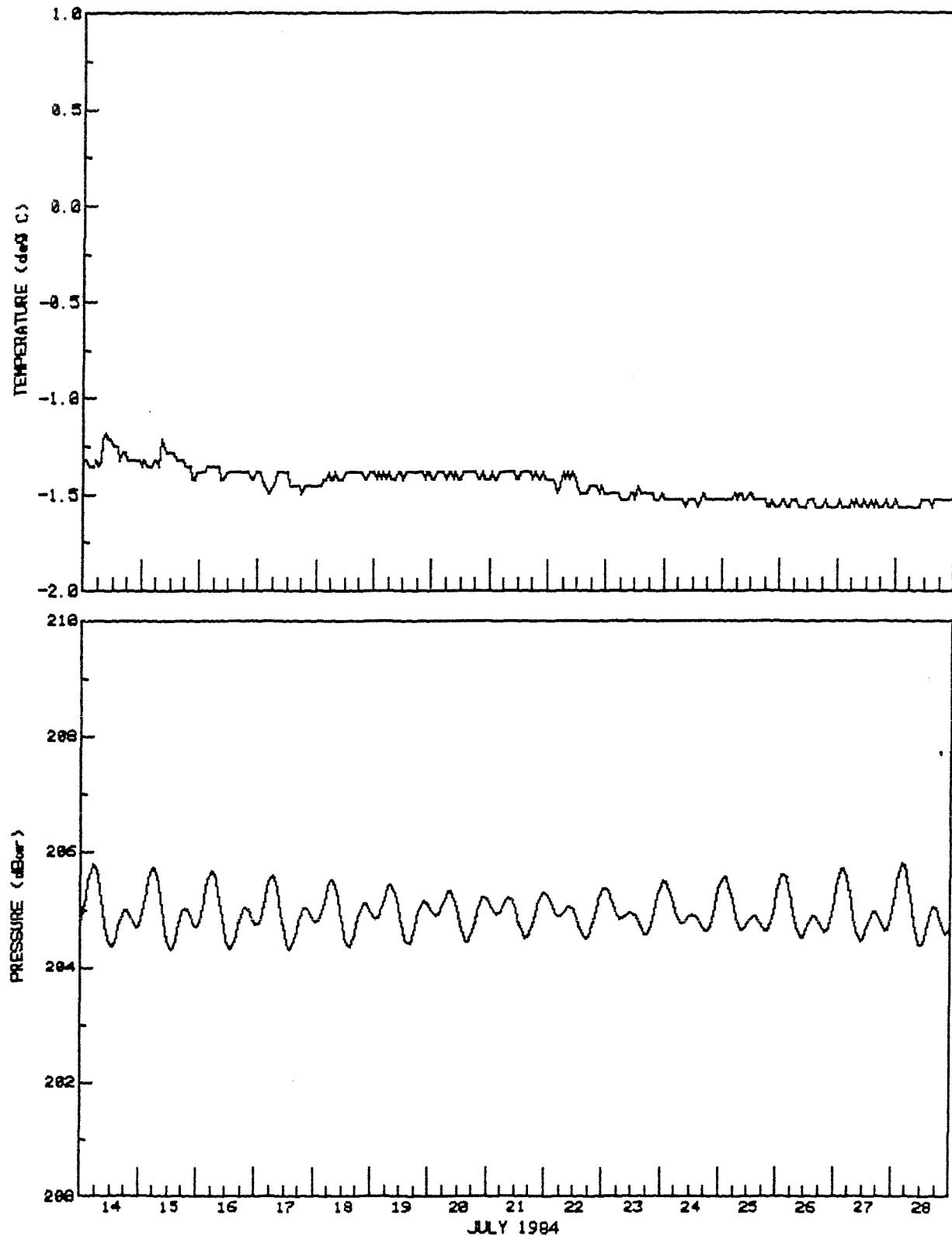
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DEPTH(m) 205
AANDERAA WLRSTYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

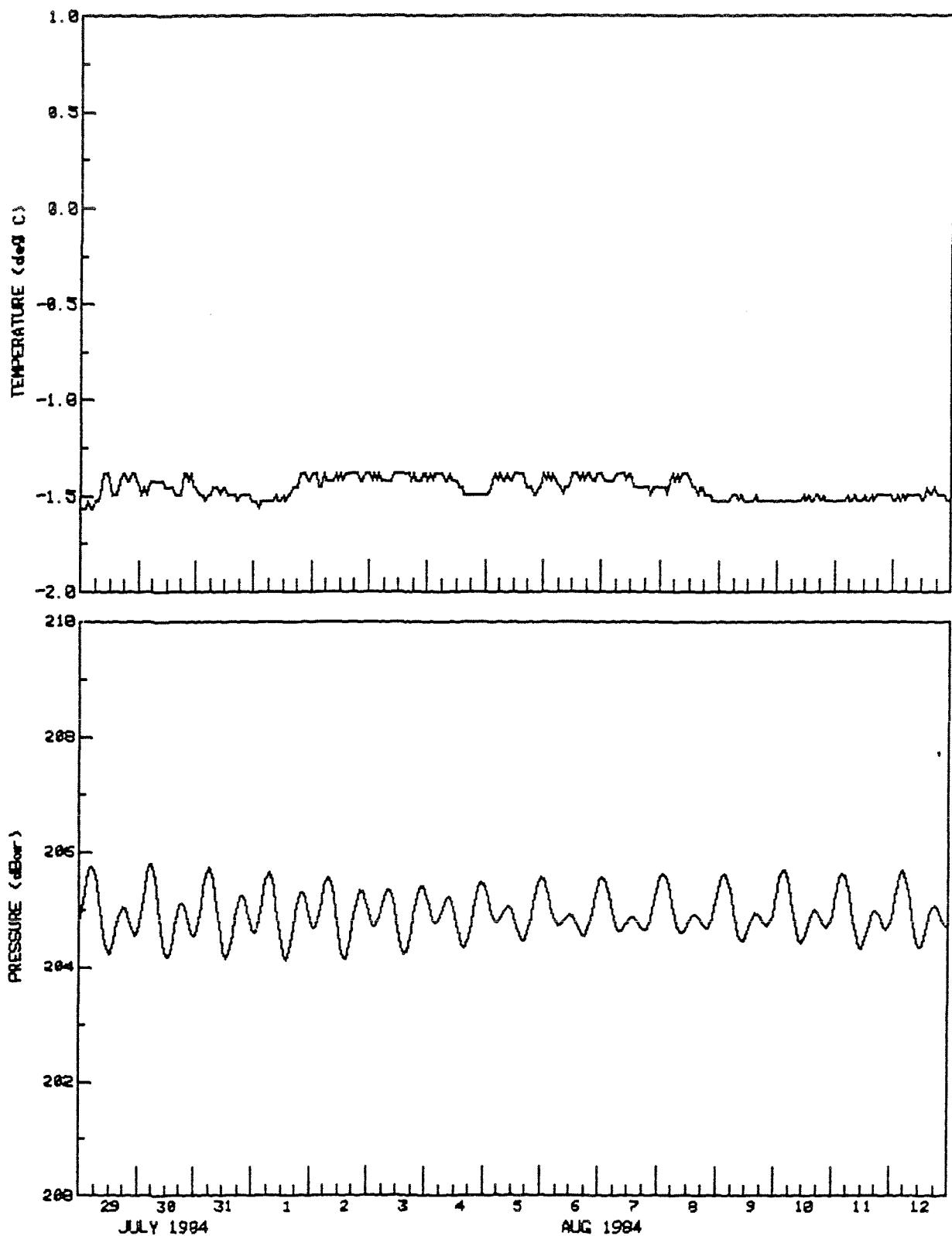
TAPE 341/1

DEPTH(m) 203
AANDERAA WLRSTYPE DESPIKED
DT(min) 60

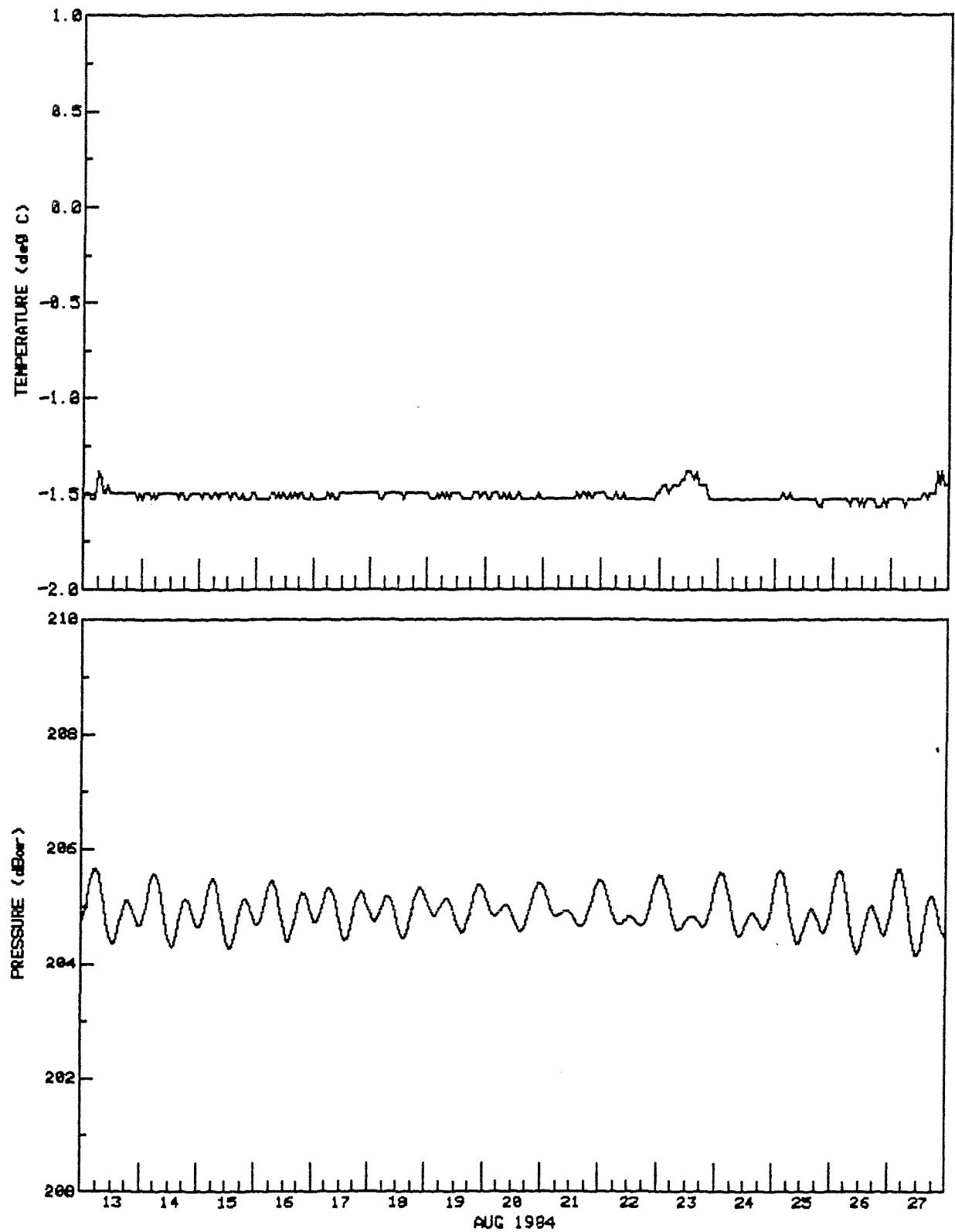
TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

TAPE 341/1

DEPTH(m) 205
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DT(min) 60

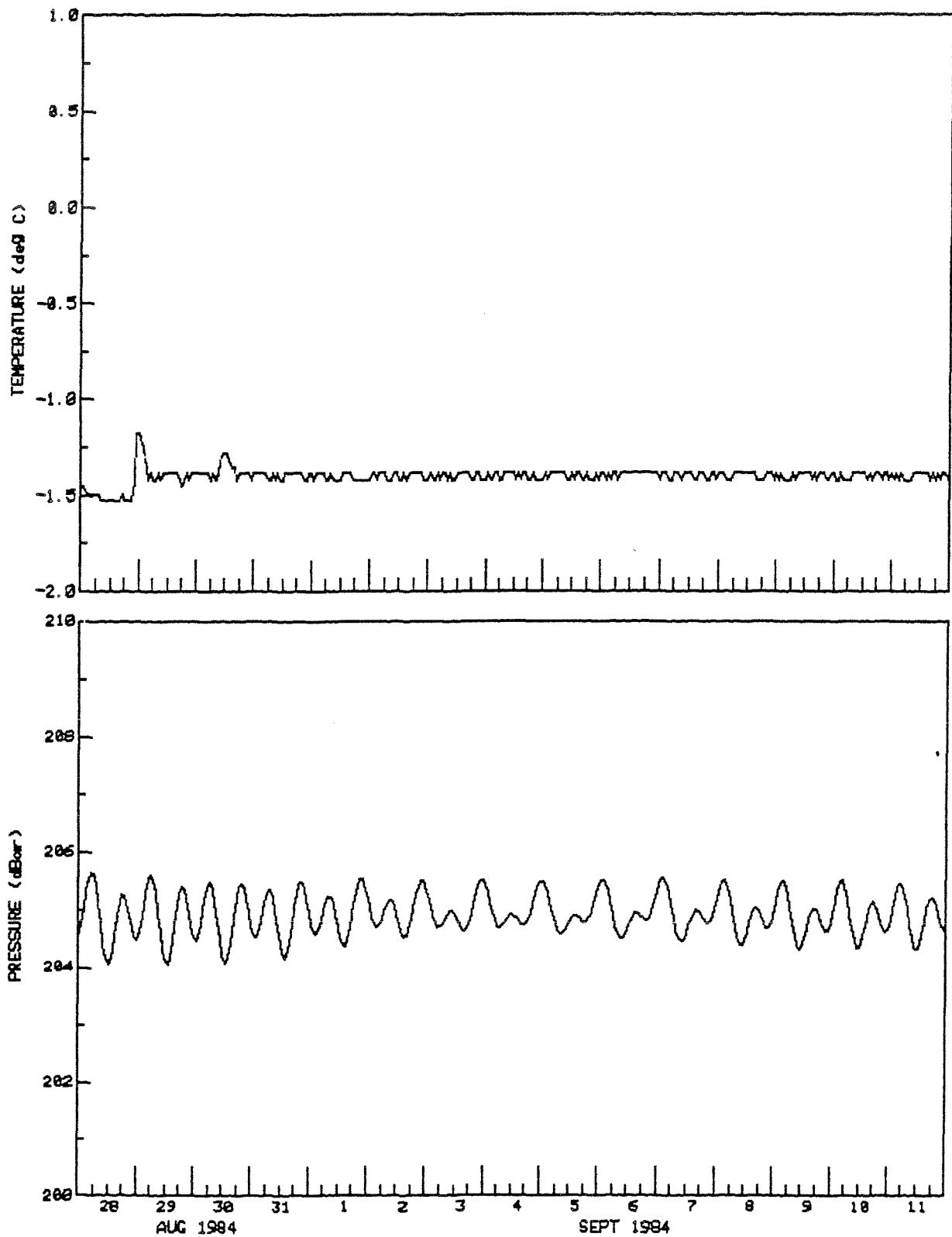
TIME SERIES OF TEMPERATURE AND PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

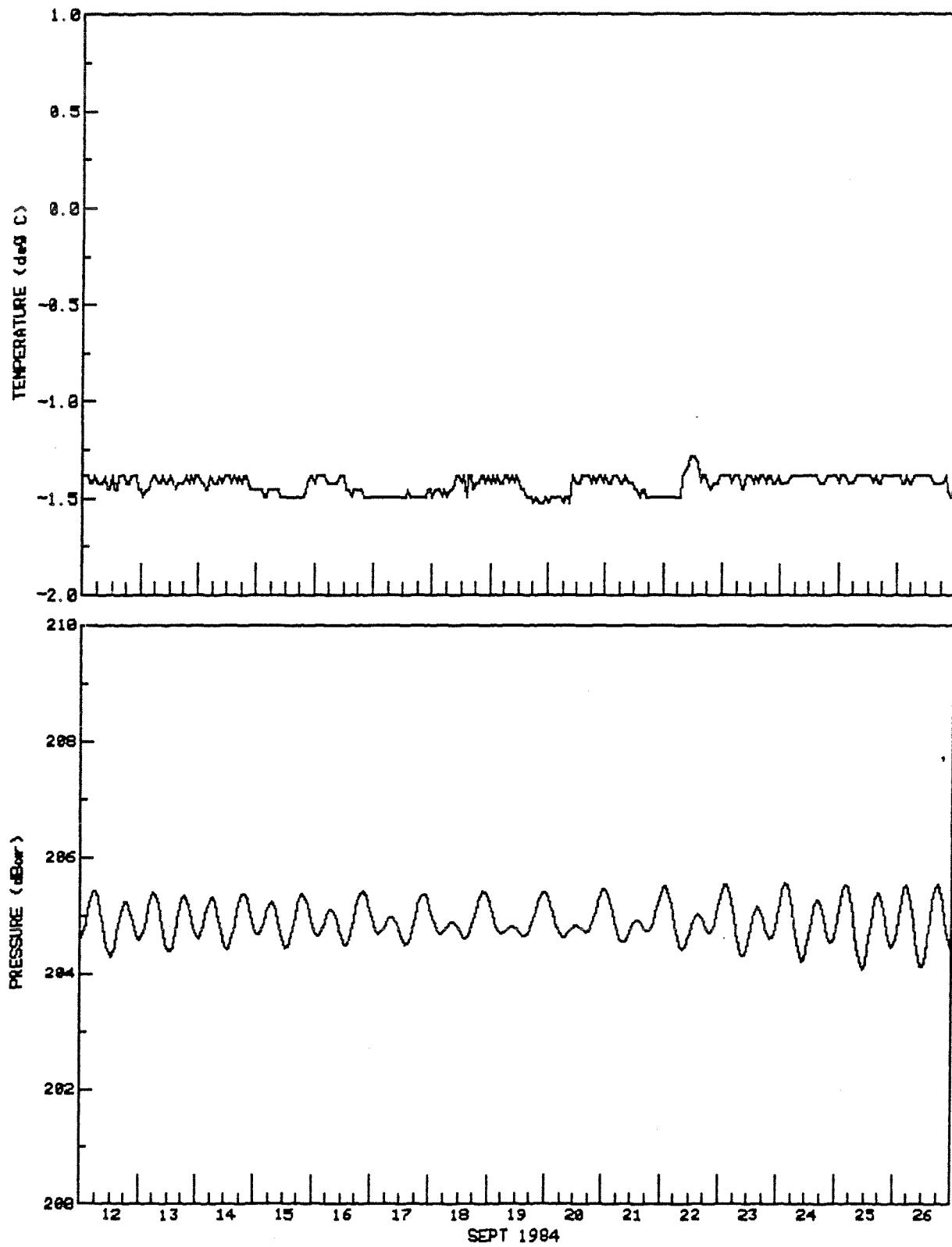
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DEPTH(m) 205
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

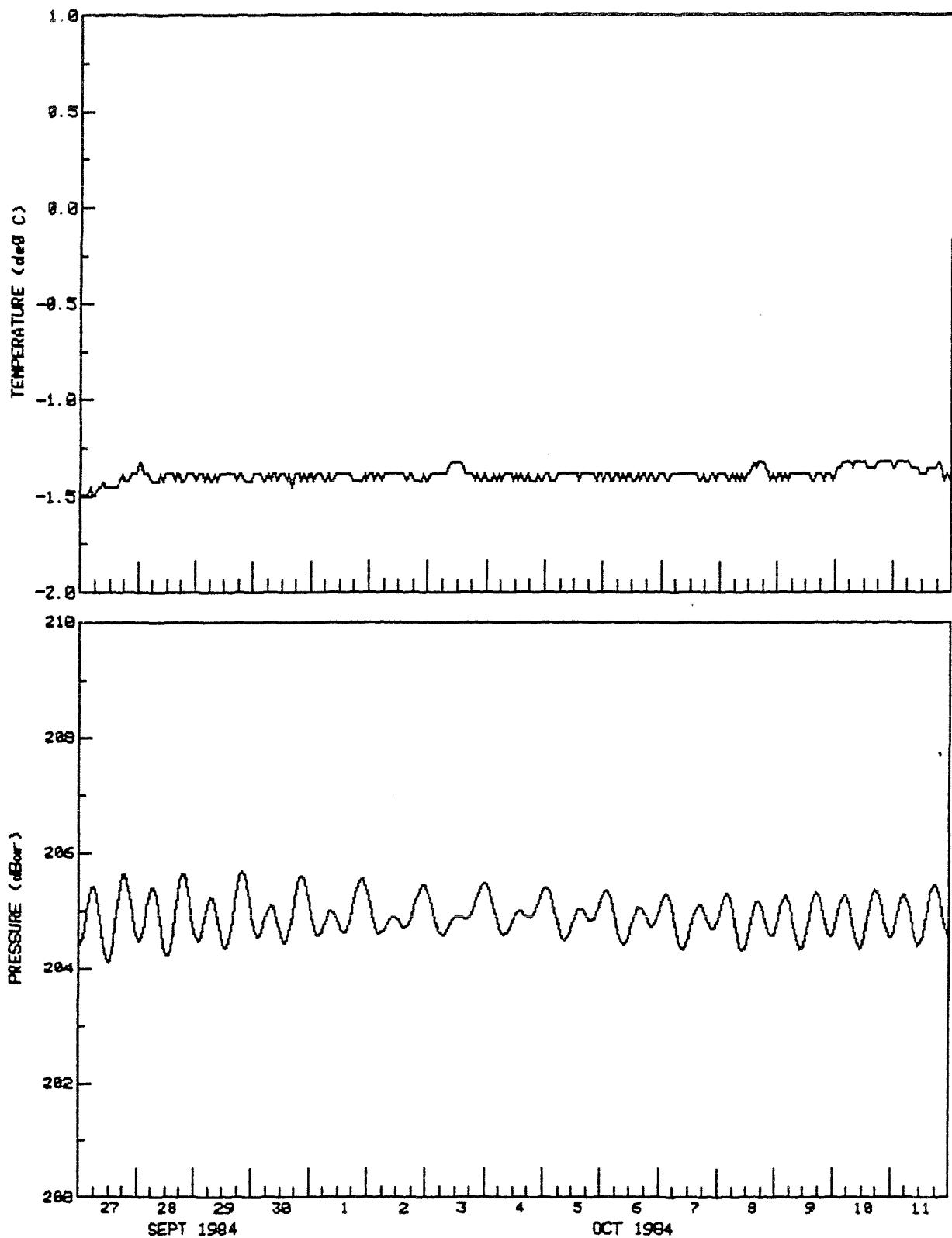
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DEPTH(m) 205
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

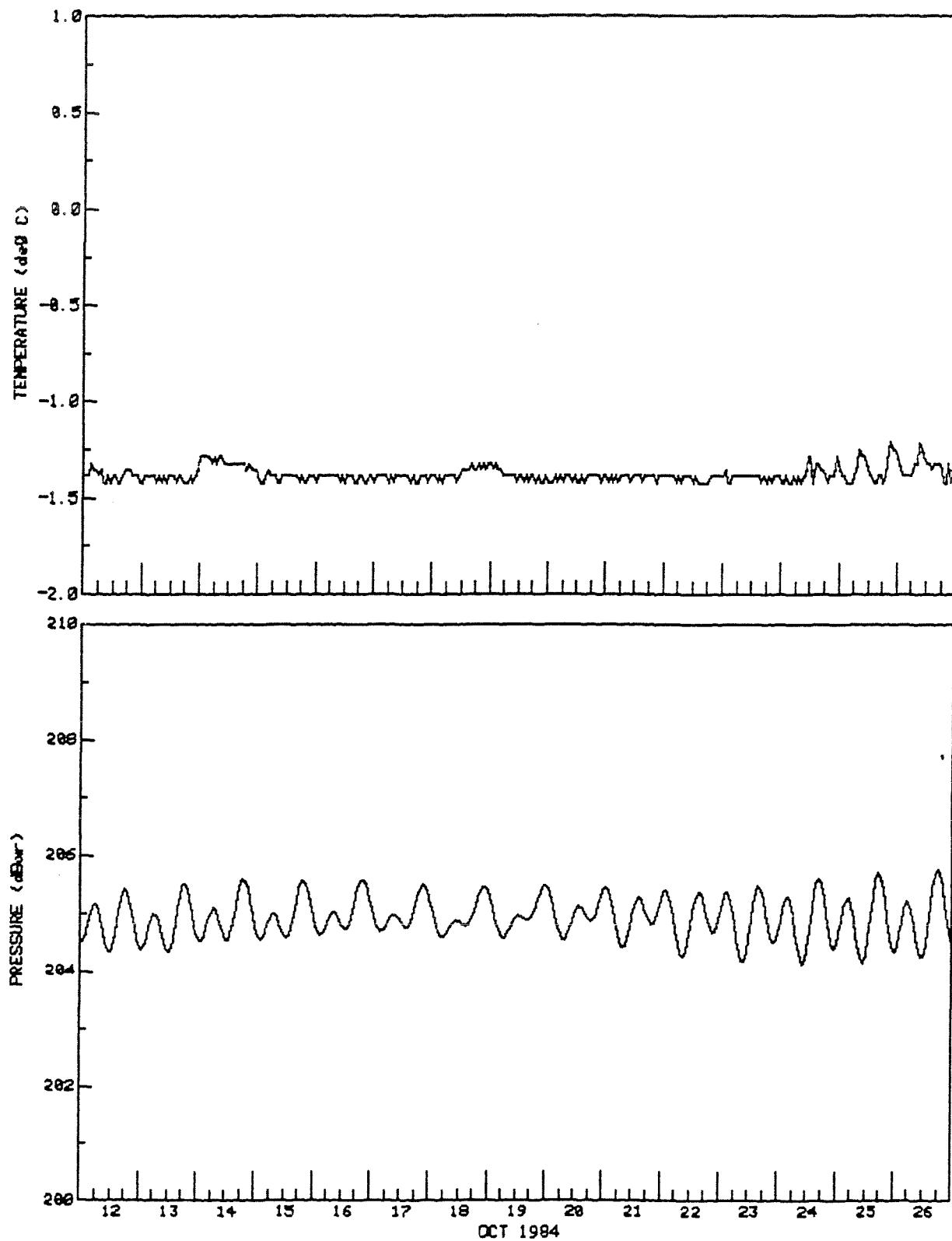
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DEPTH(m) 205
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

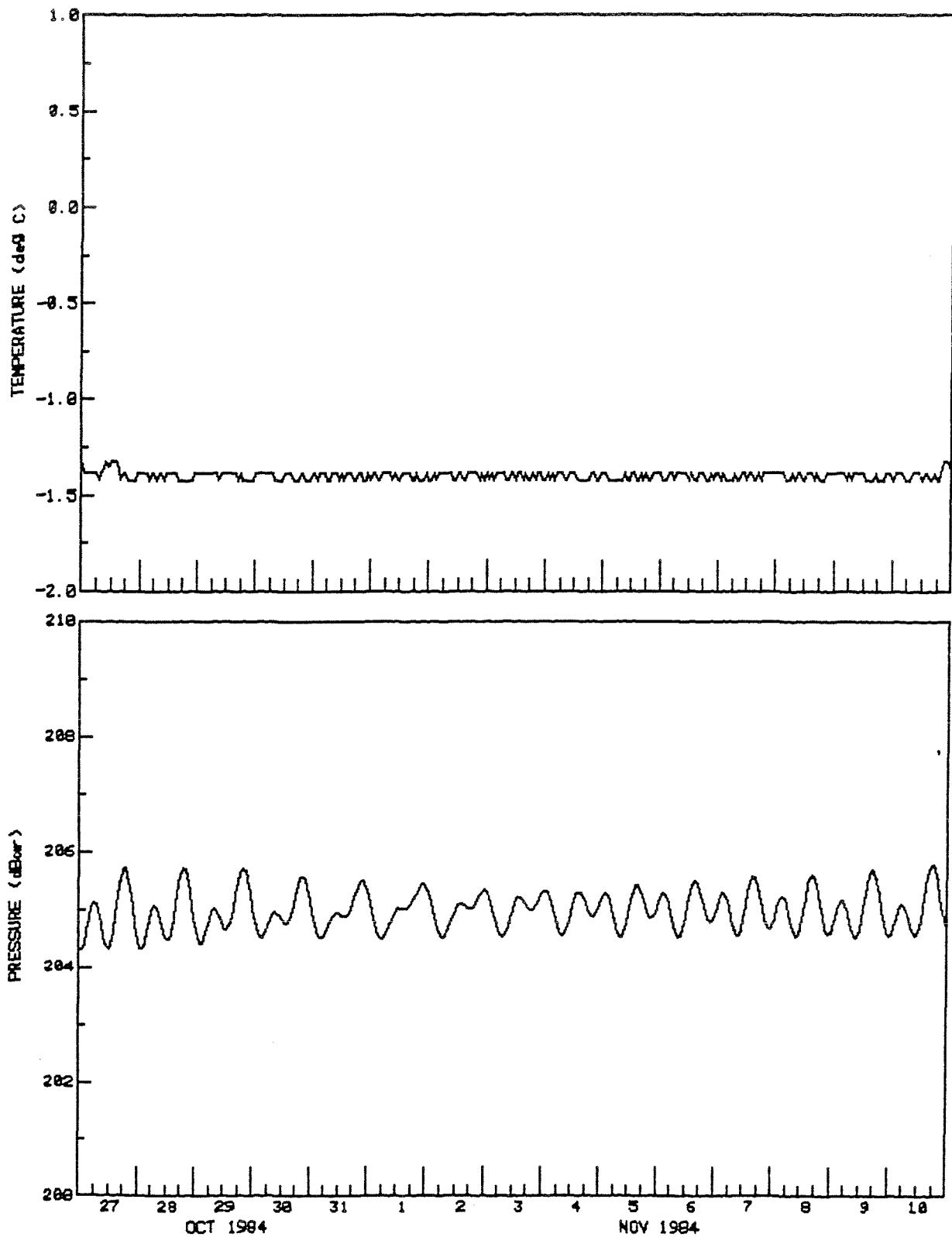
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DEPTH(m) 205
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TIME SERIES OF TEMPERATURE AND PRESSURE

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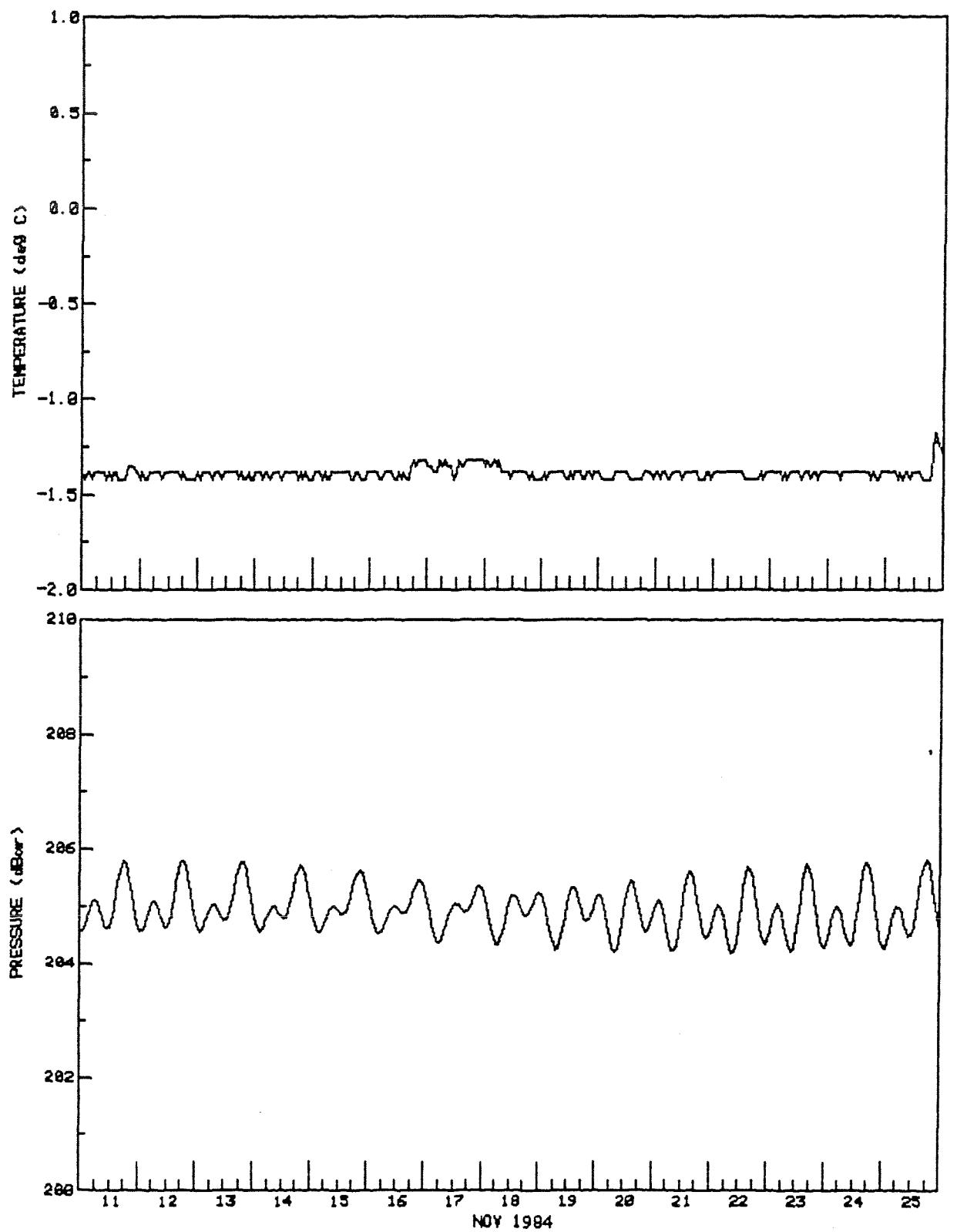
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DEPTH(m) 205
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

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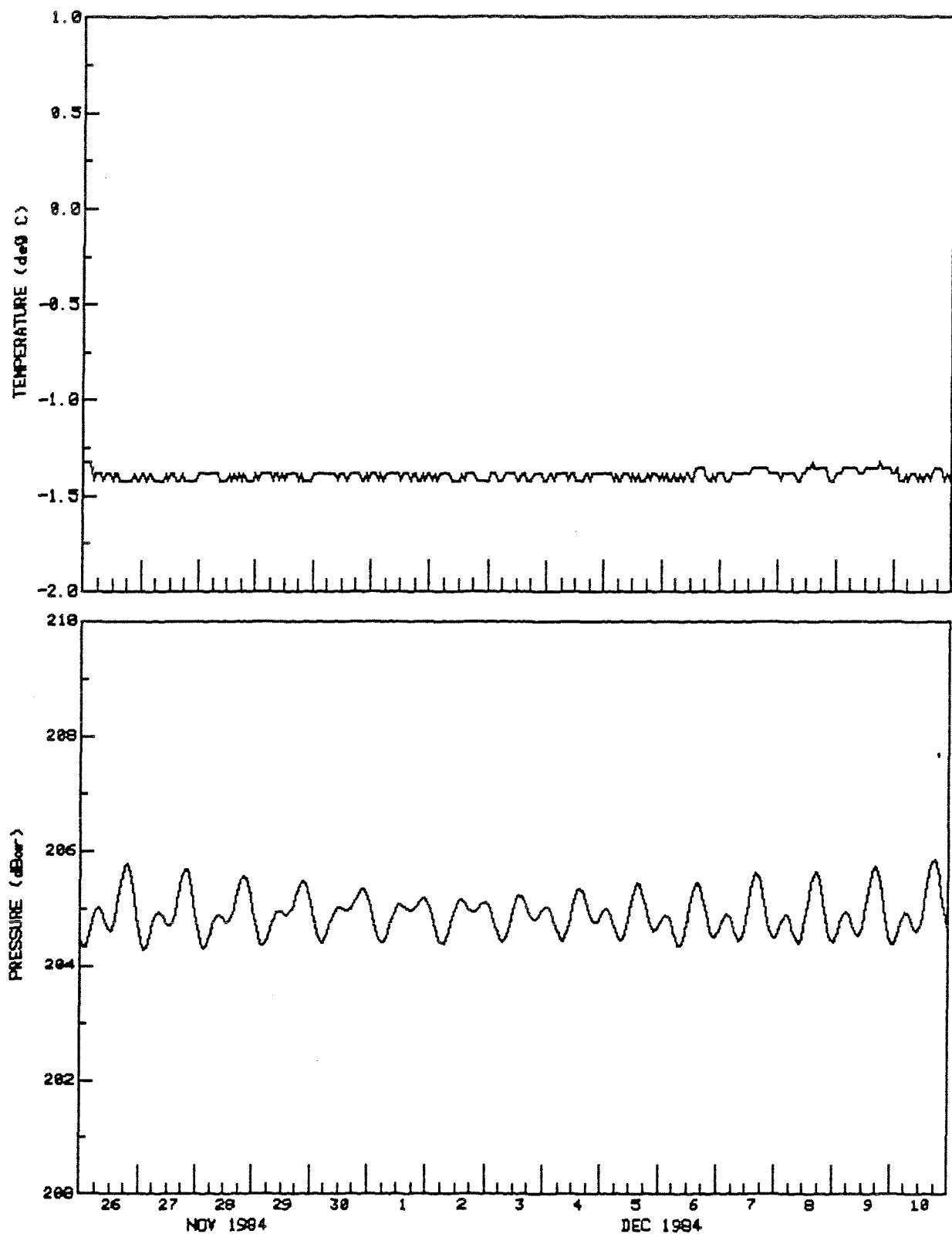
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

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71 46' N 71 41' W

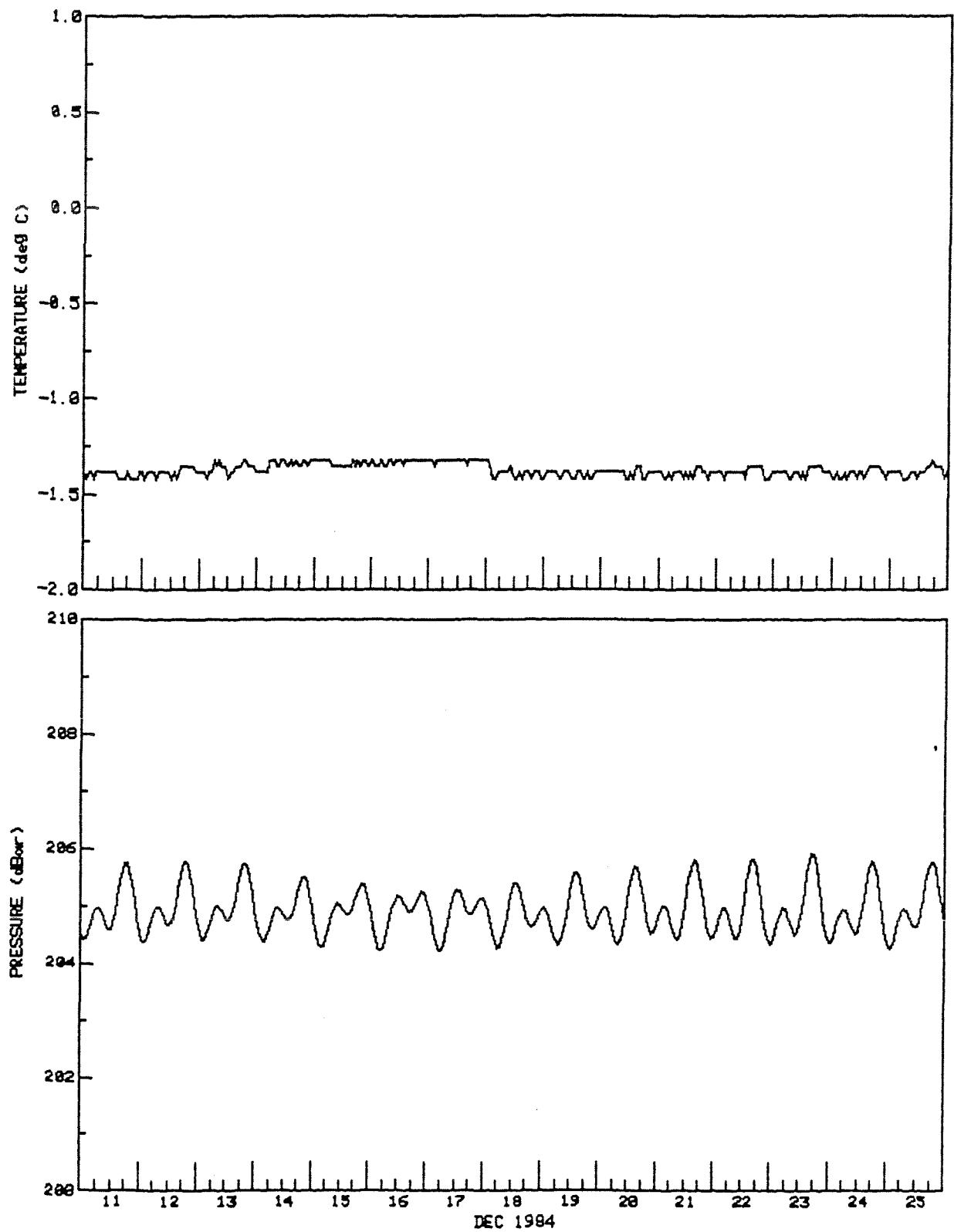
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TIME SERIES OF TEMPERATURE AND PRESSURE

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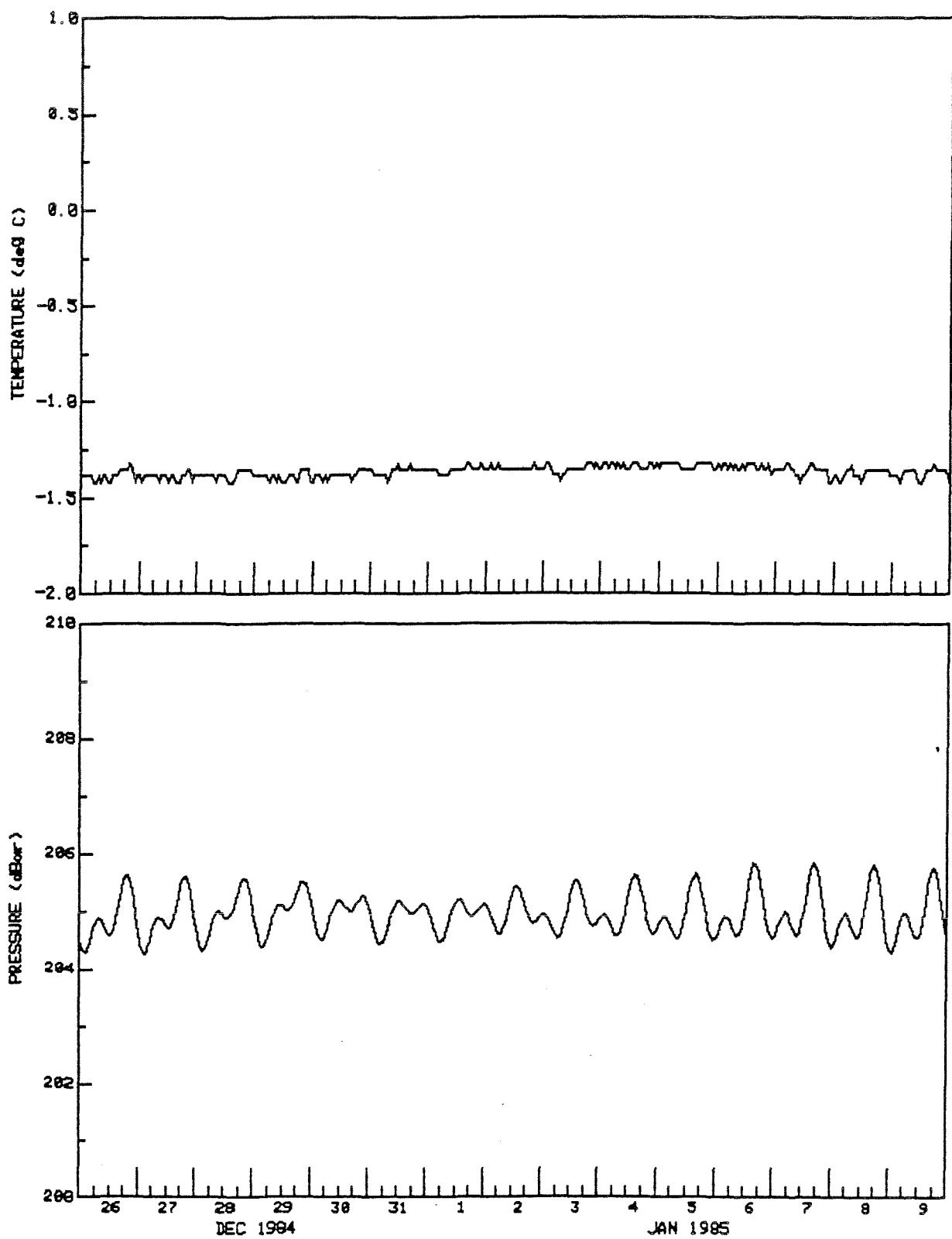
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DEPTH(m) 205
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

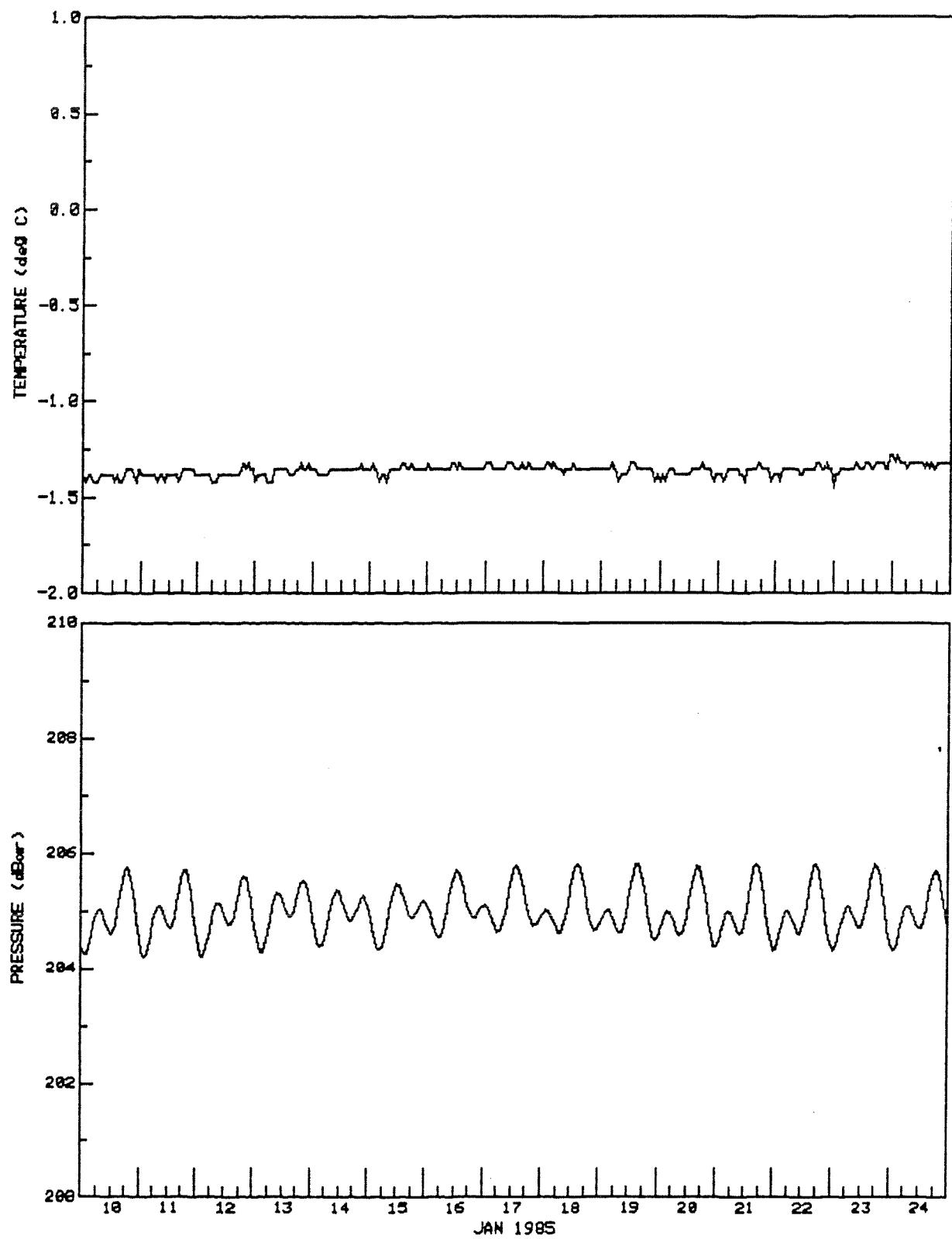
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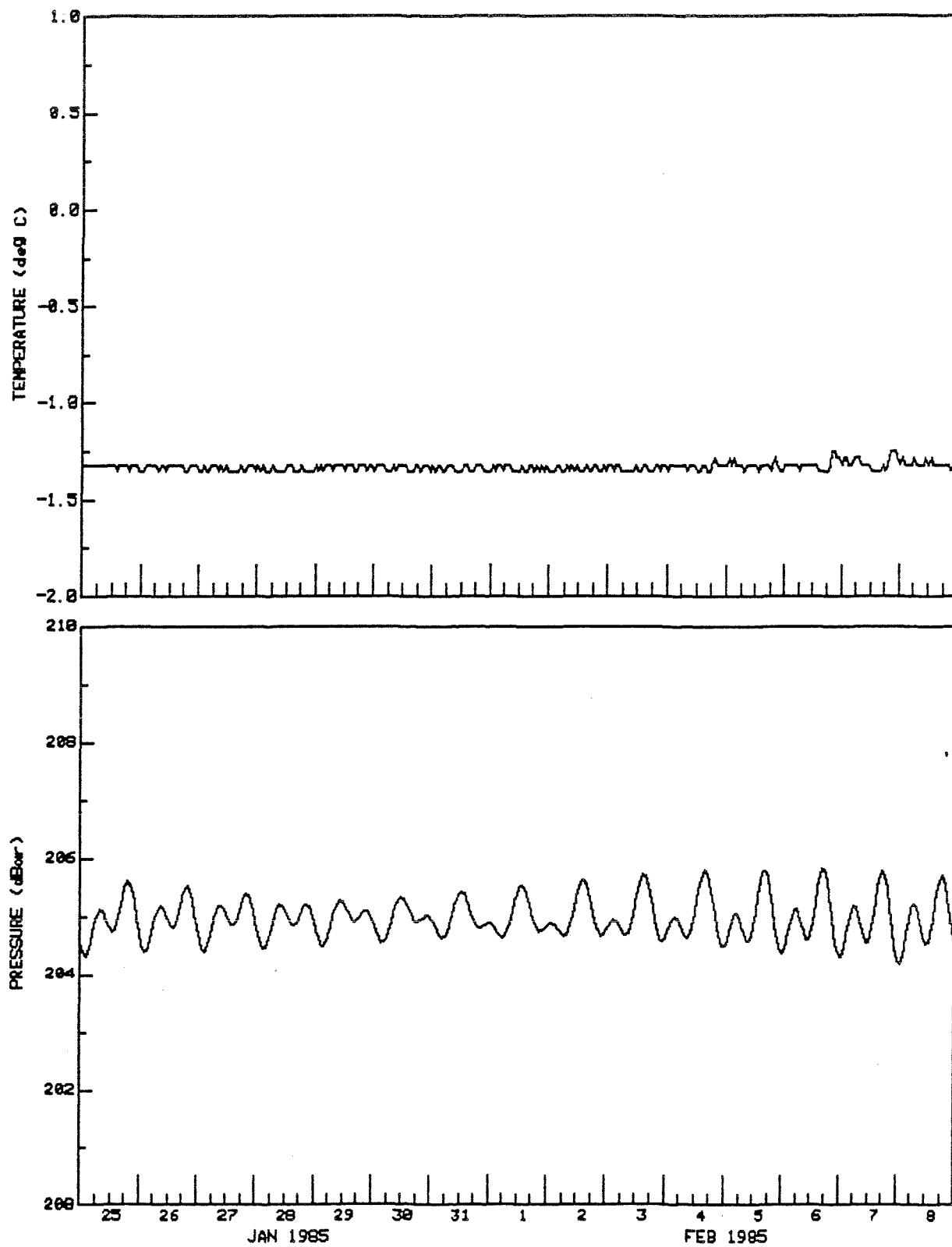
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CENTRAL BAFFIN BAY
71 46' N 71 41' W

TAPE 341/1

DEPTH(m) 205
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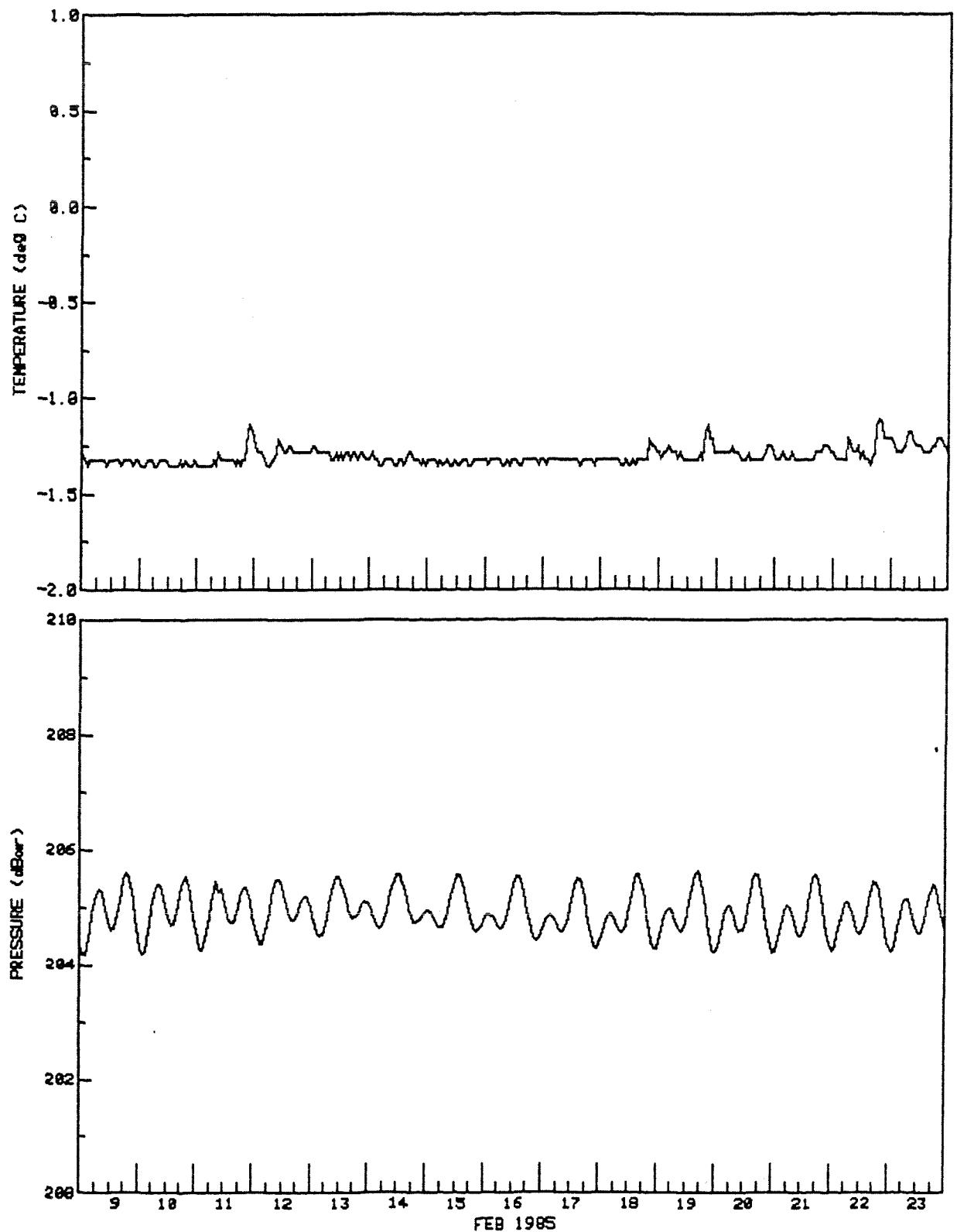
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CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

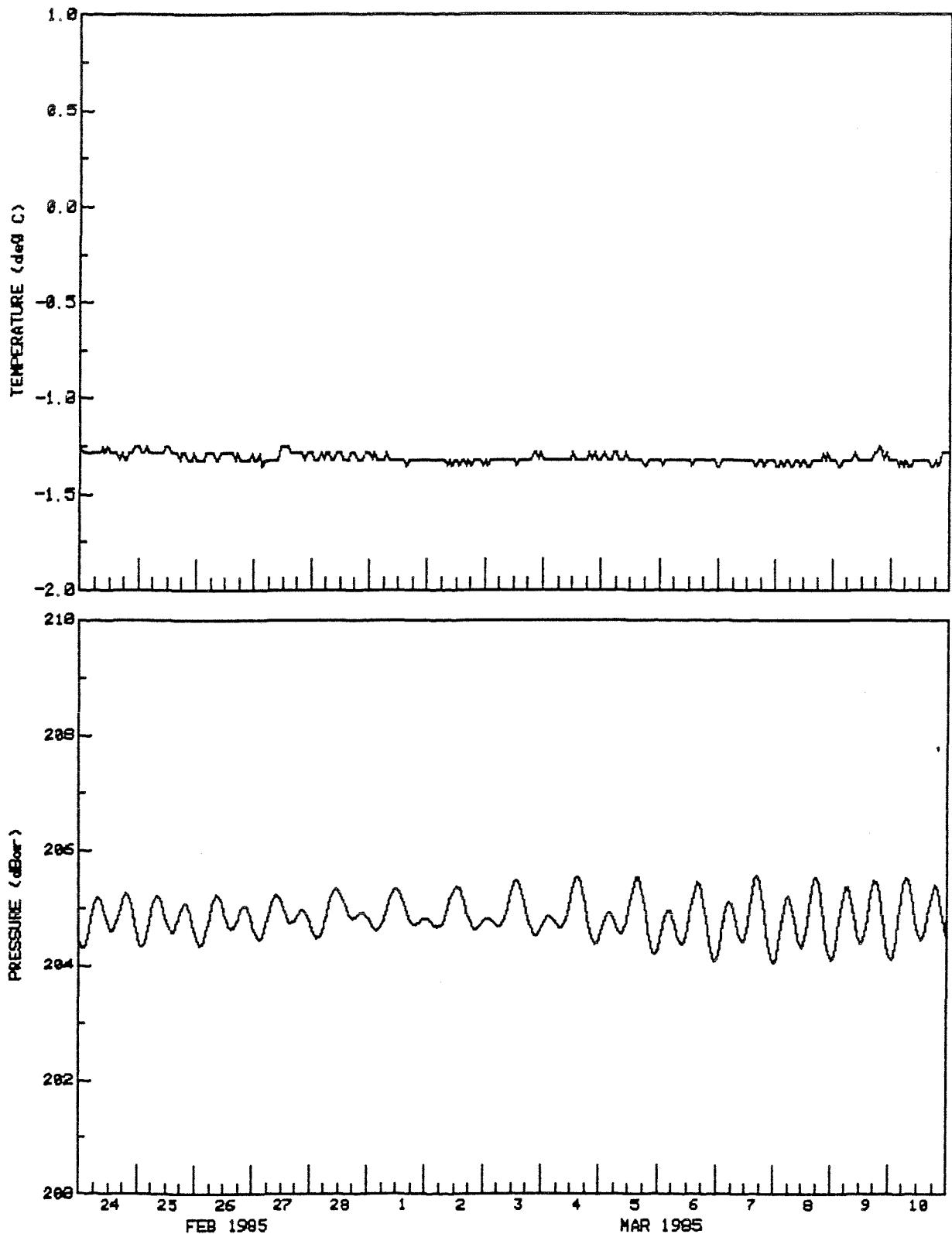
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

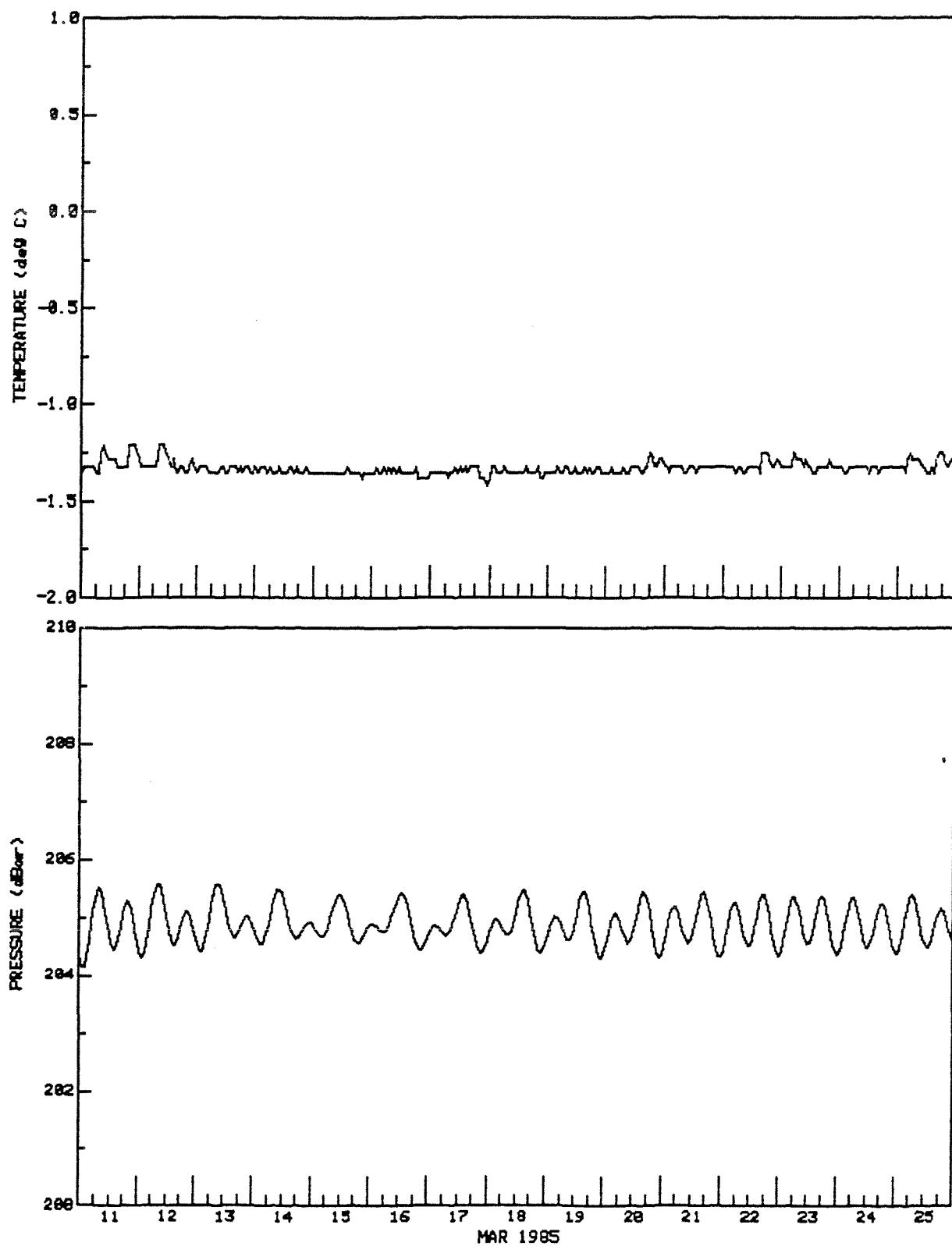
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DEPTH(m) 205
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TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

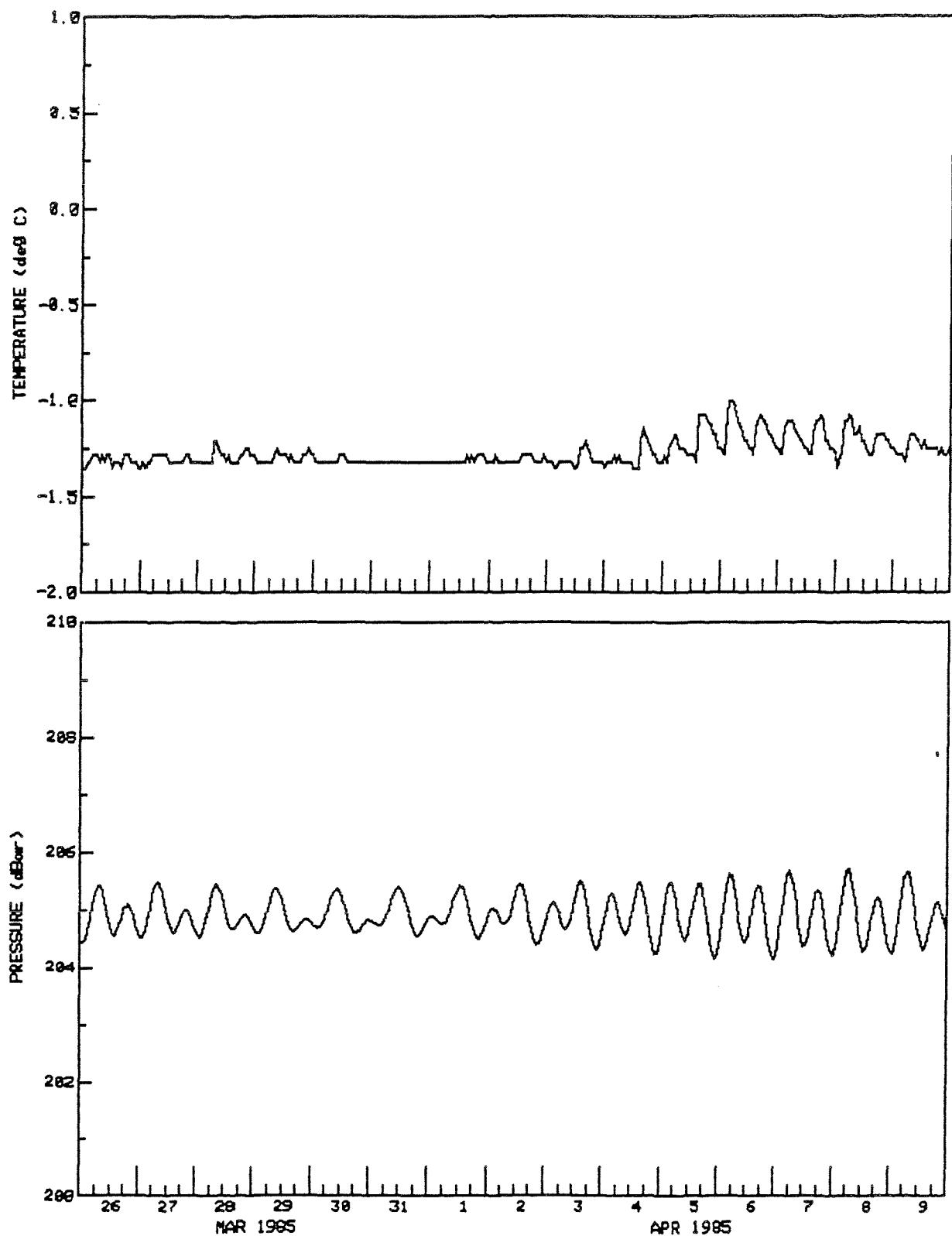
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DEPTH(m) 205
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

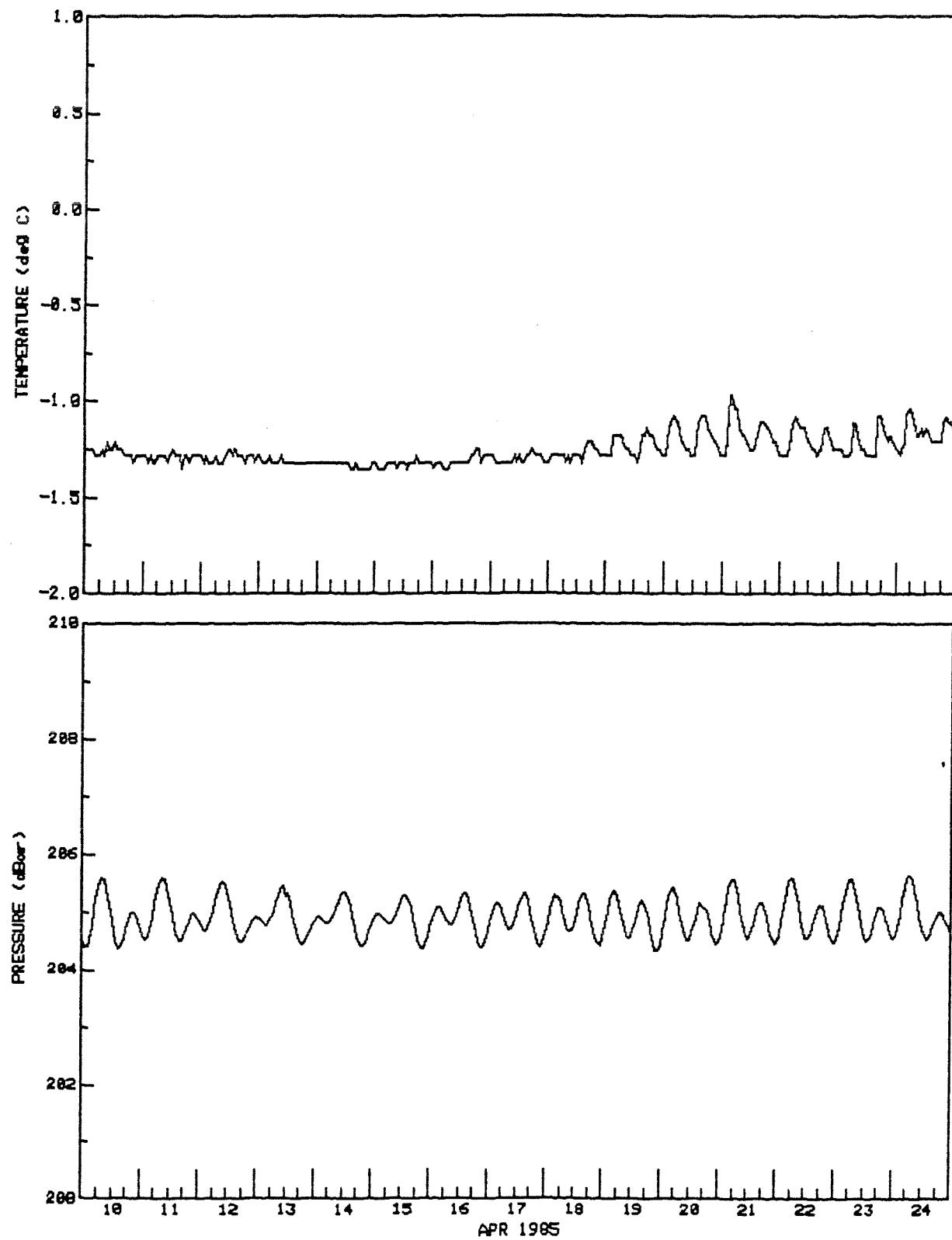
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

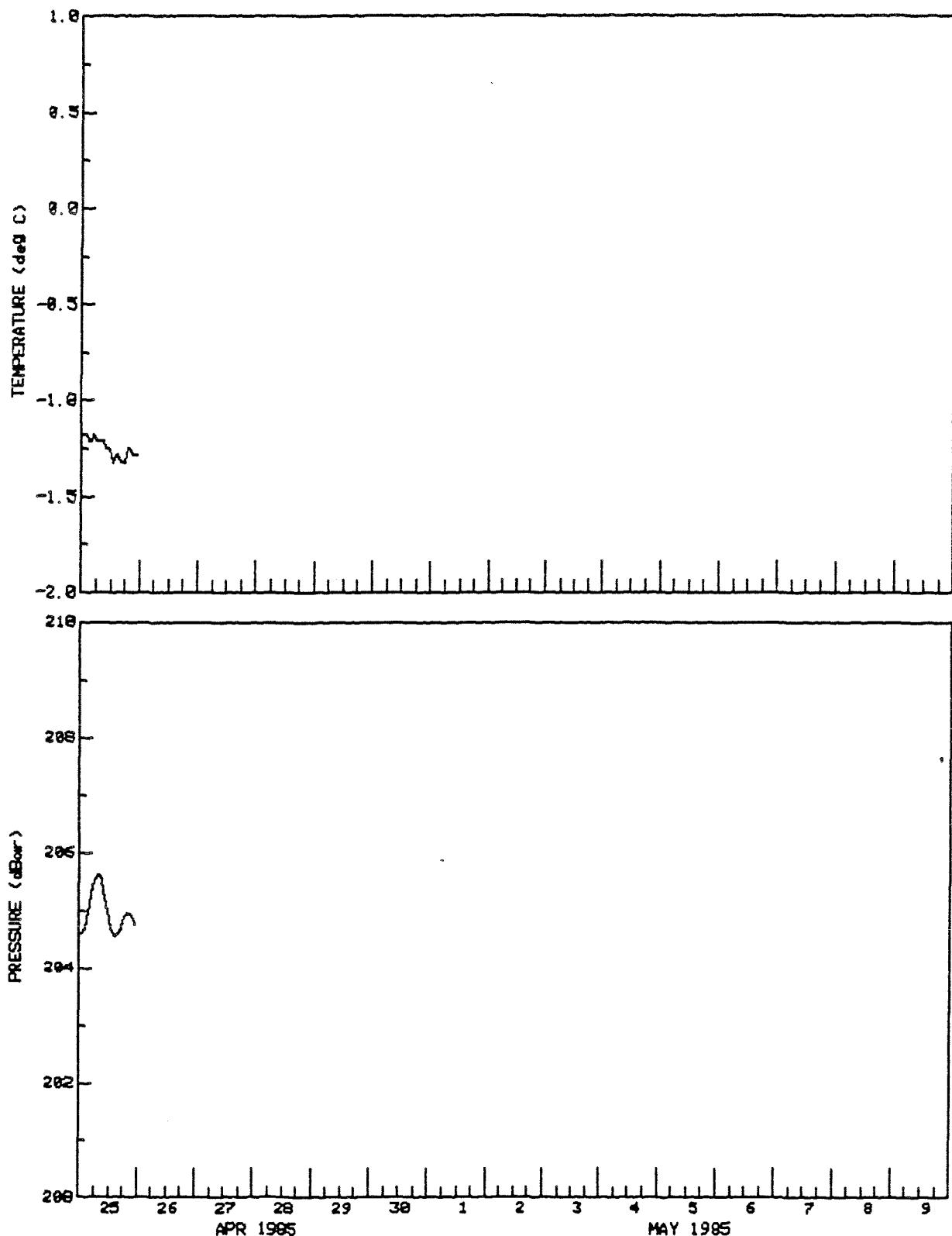
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DT(min) 60

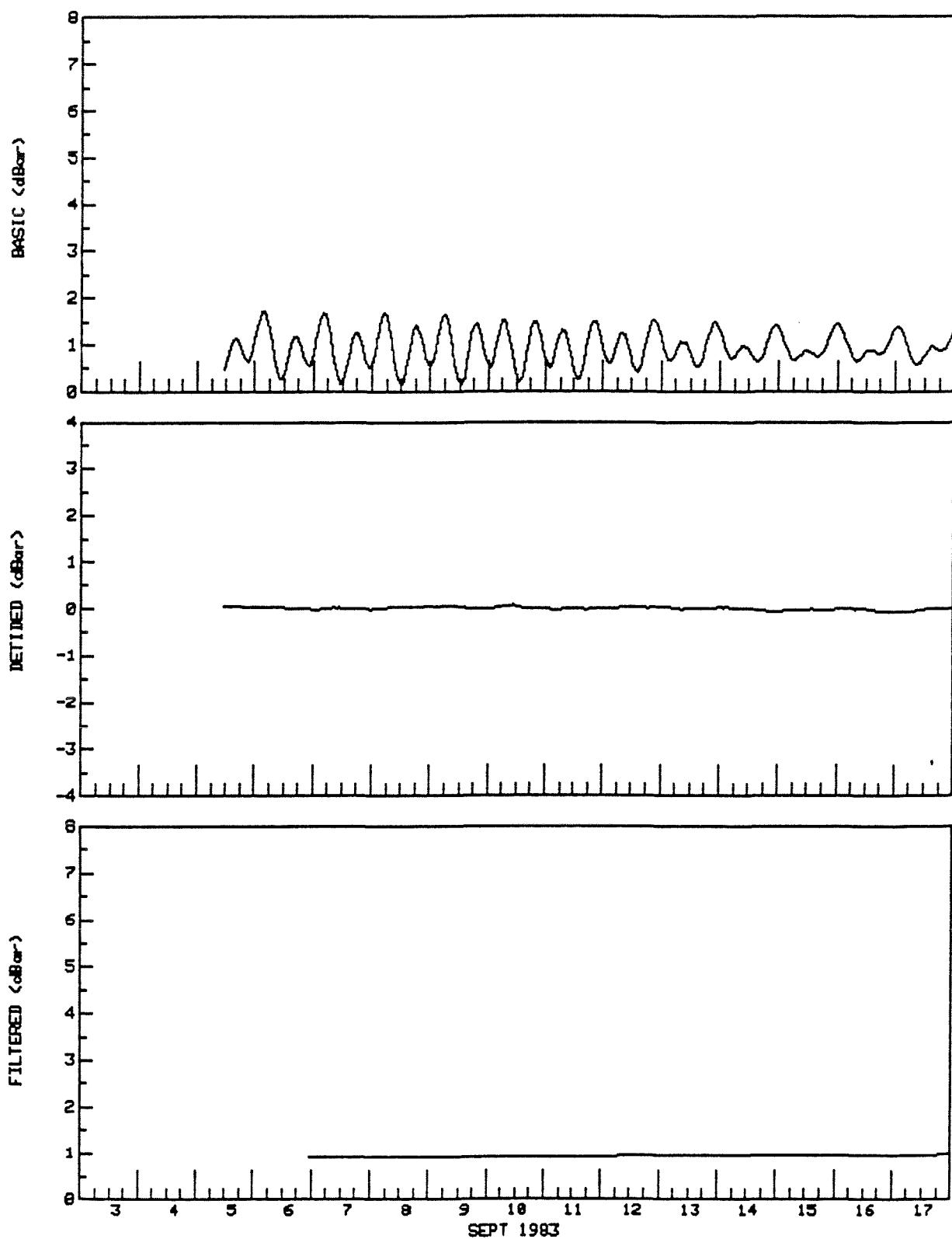
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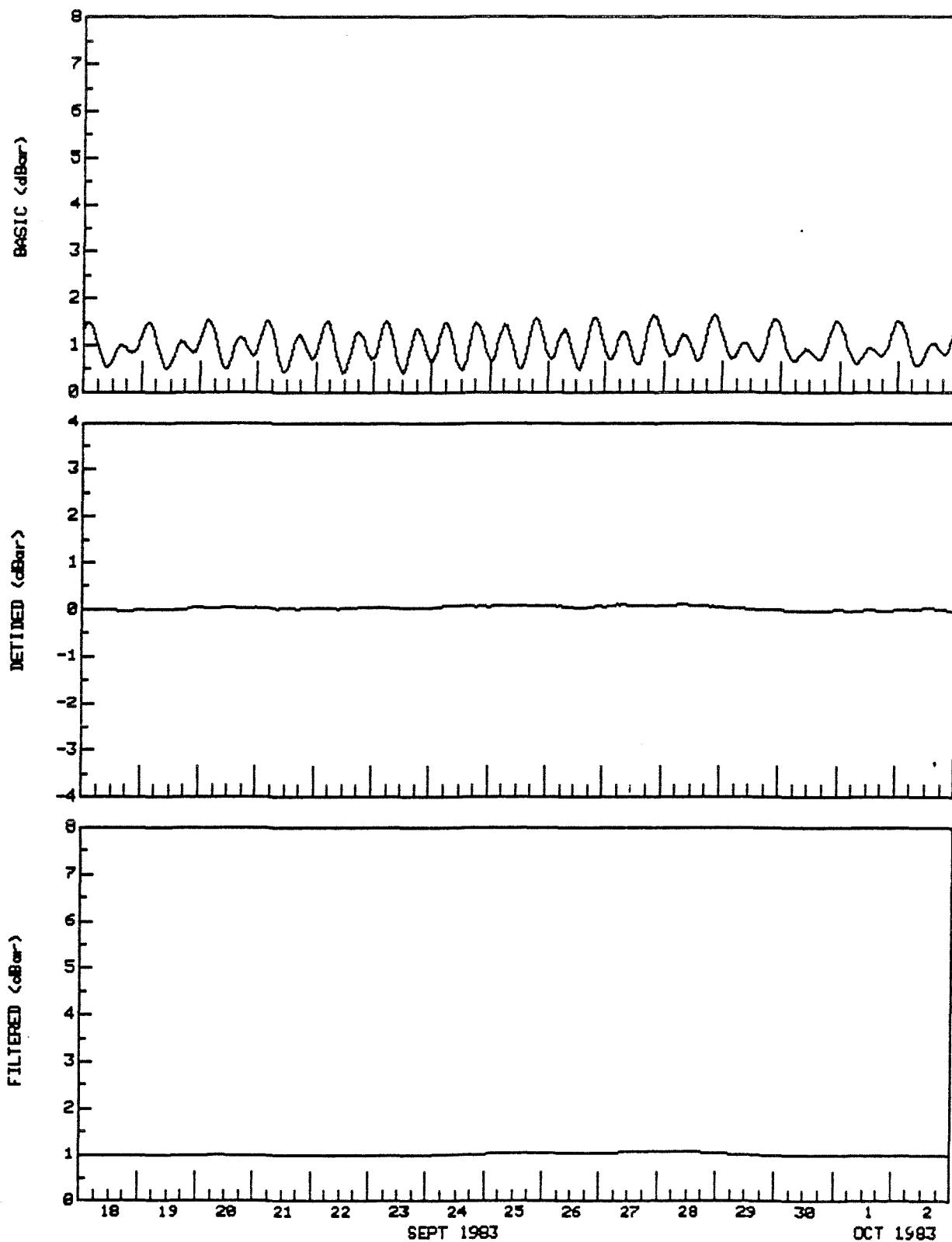
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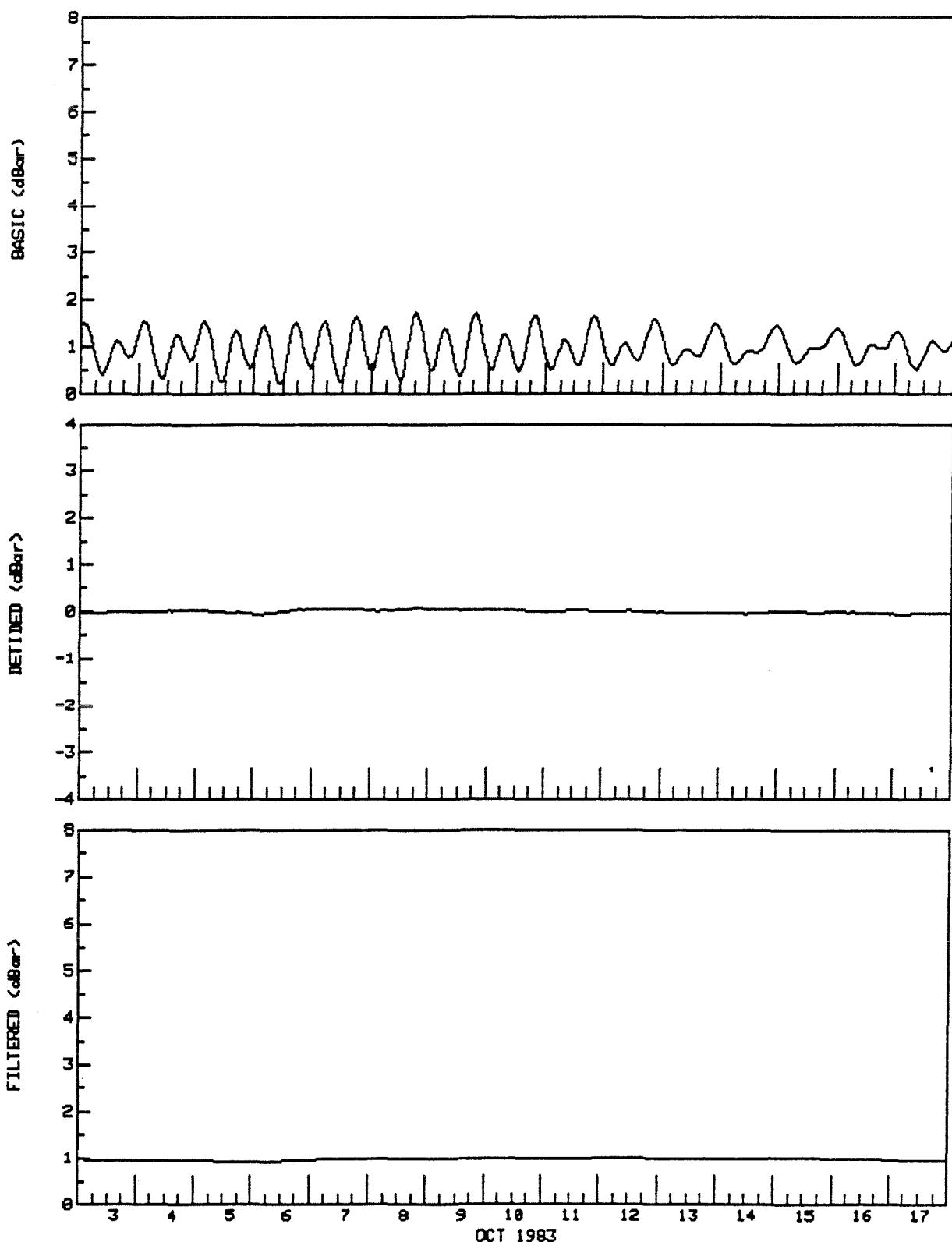
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71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



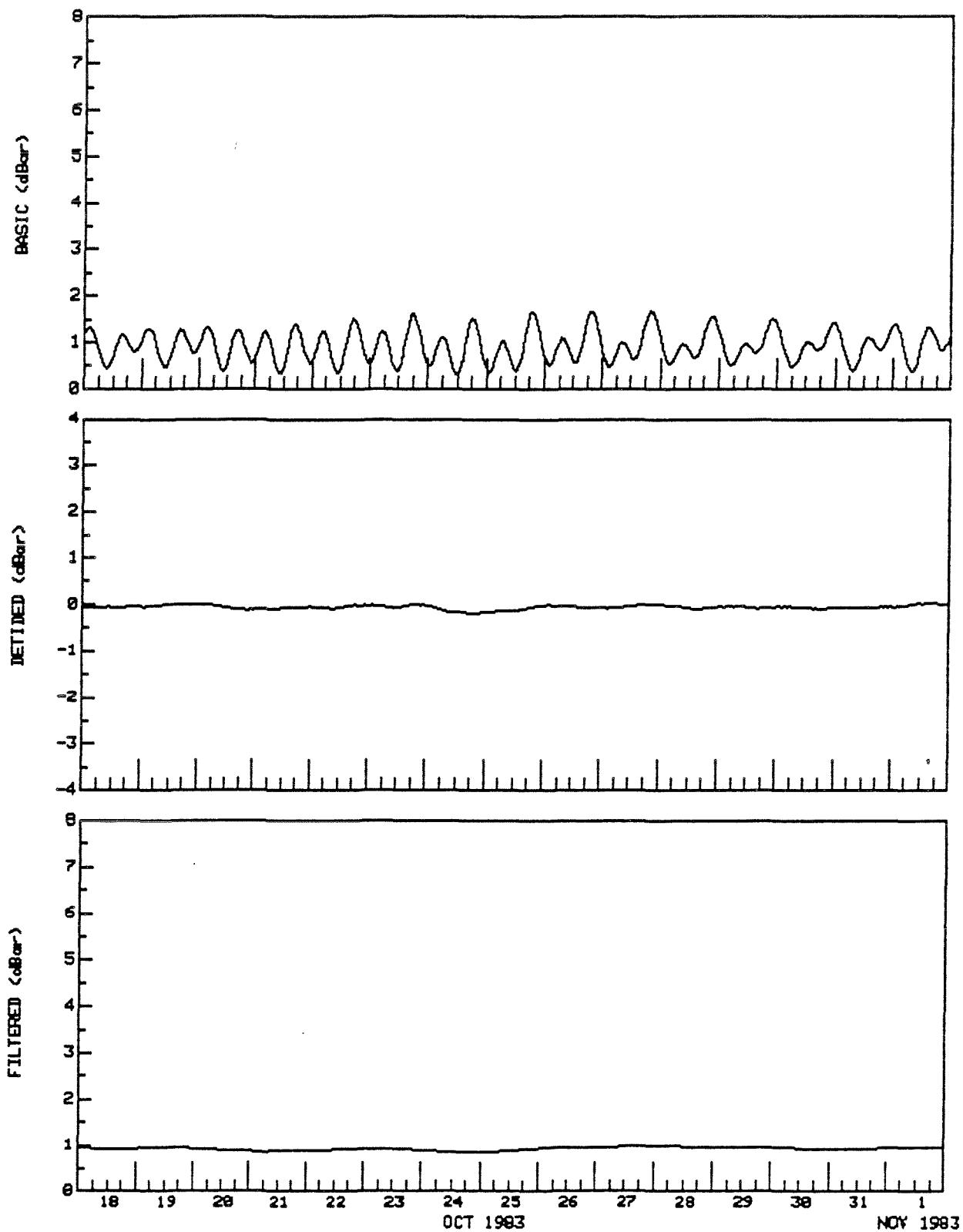
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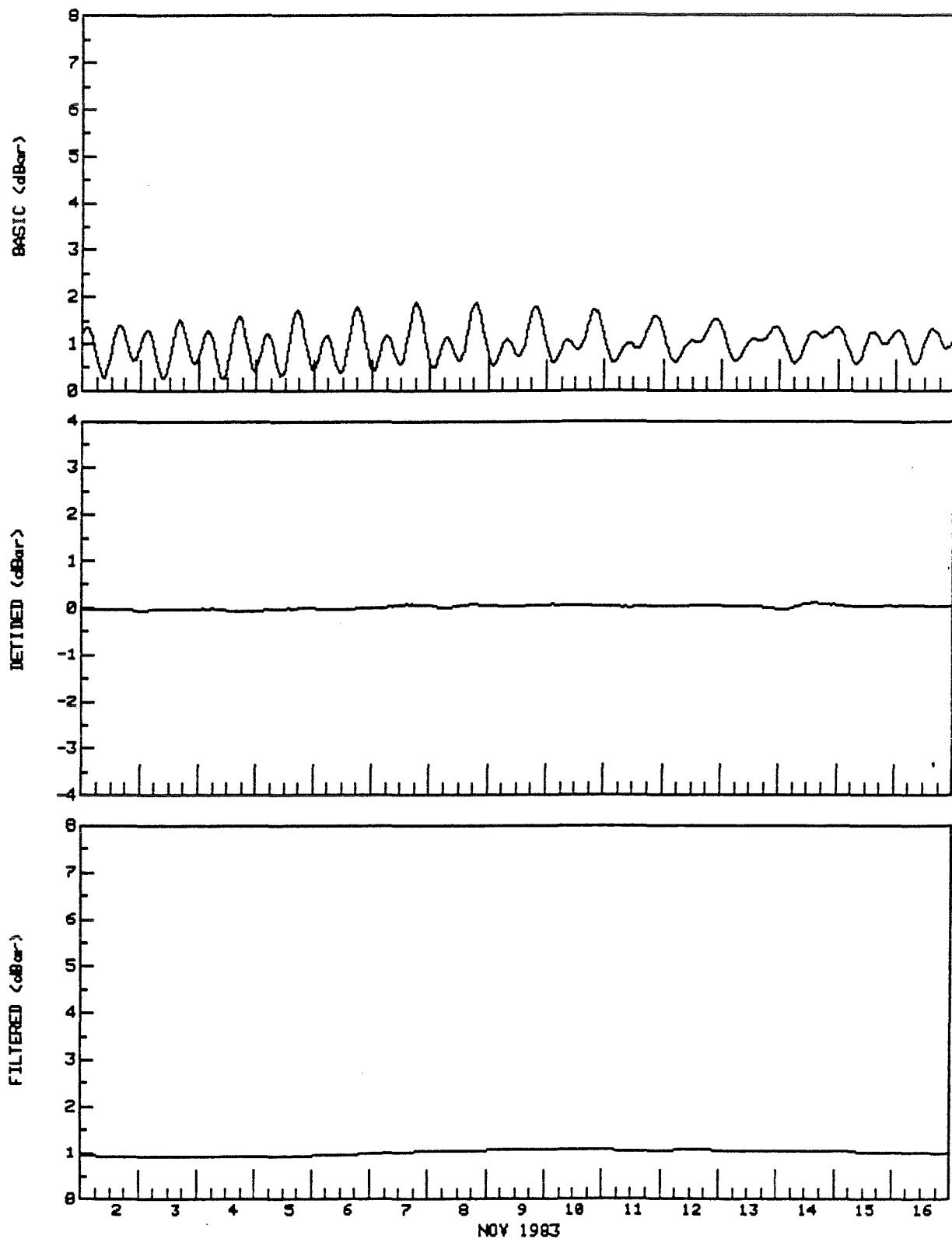
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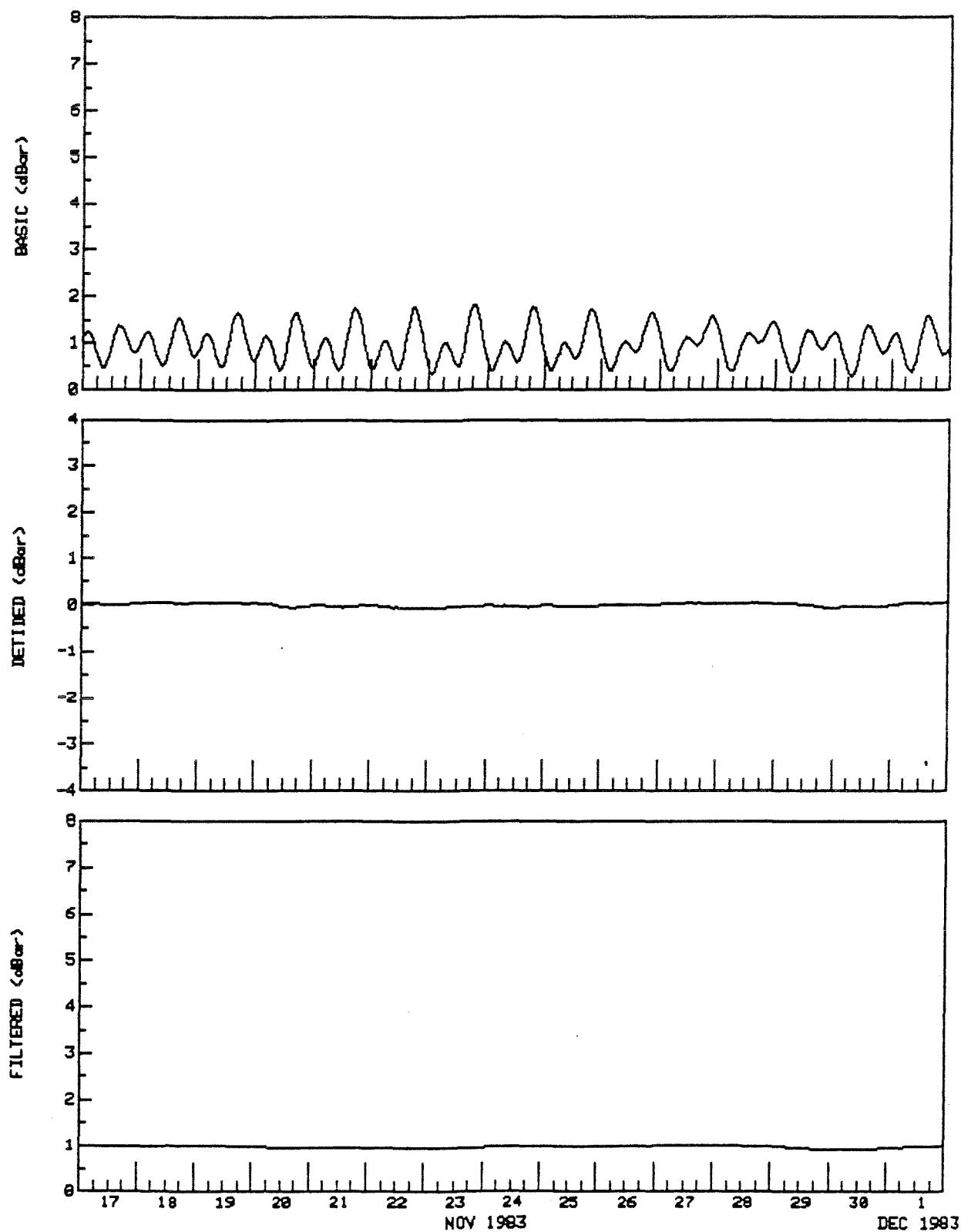
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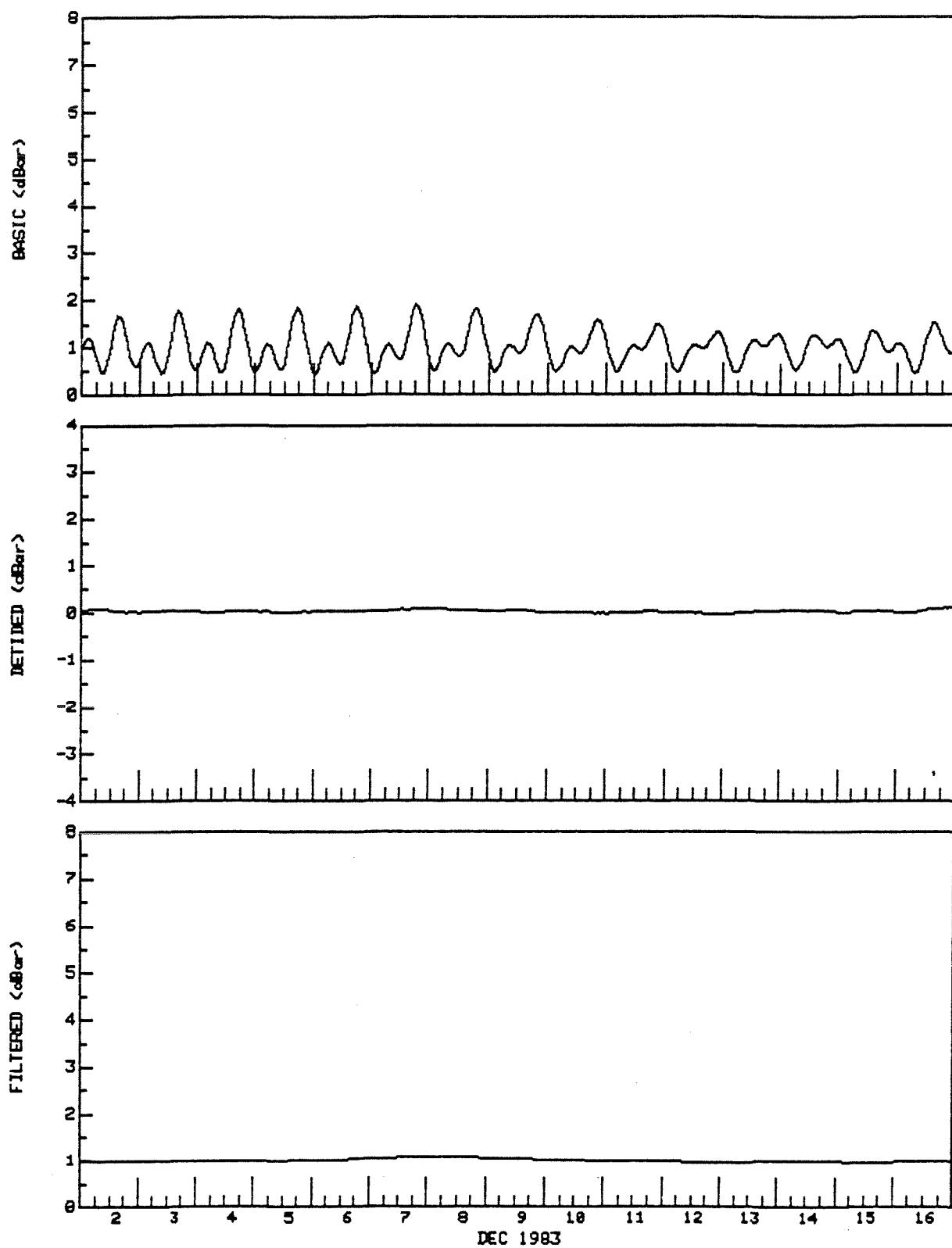
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71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
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71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



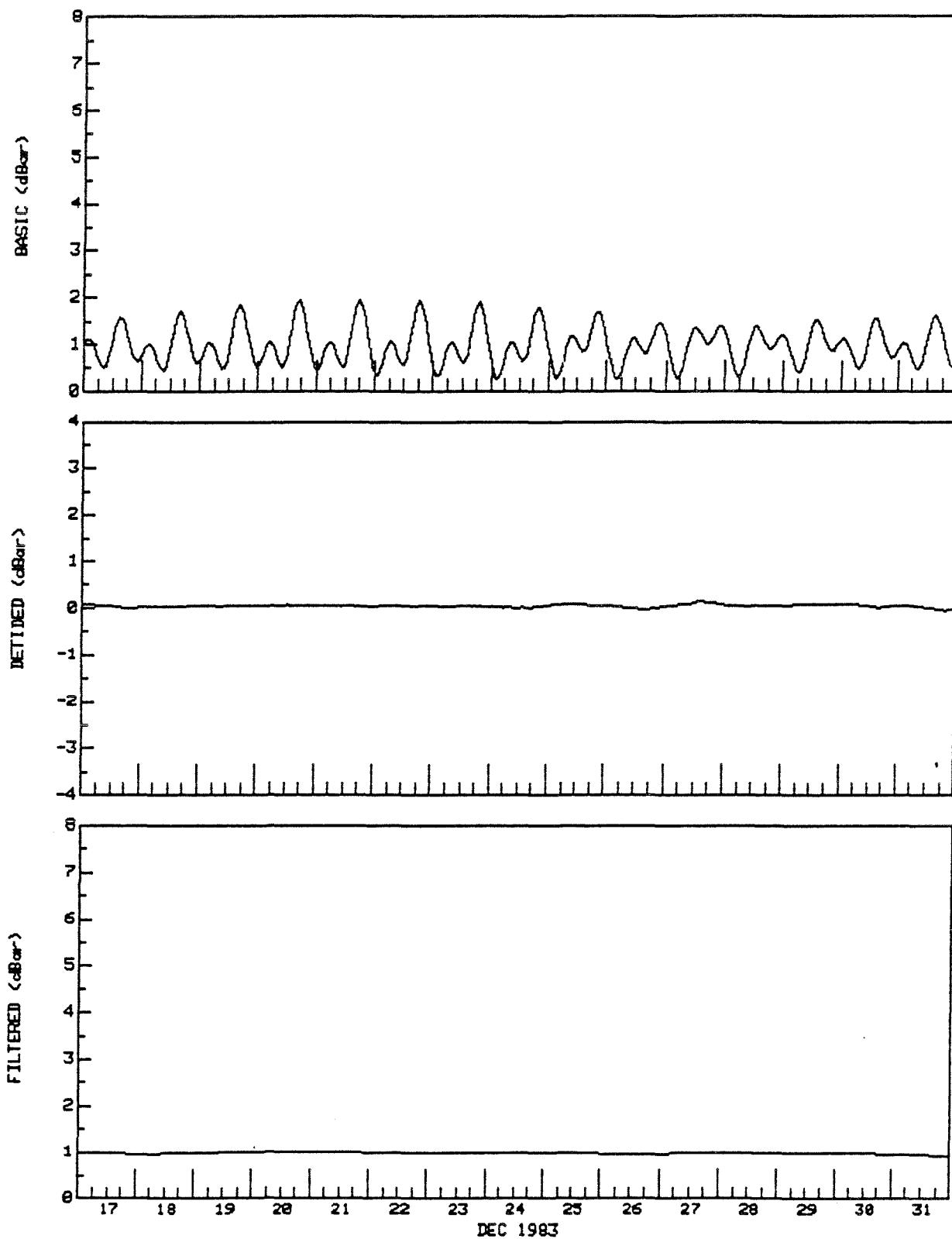
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71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

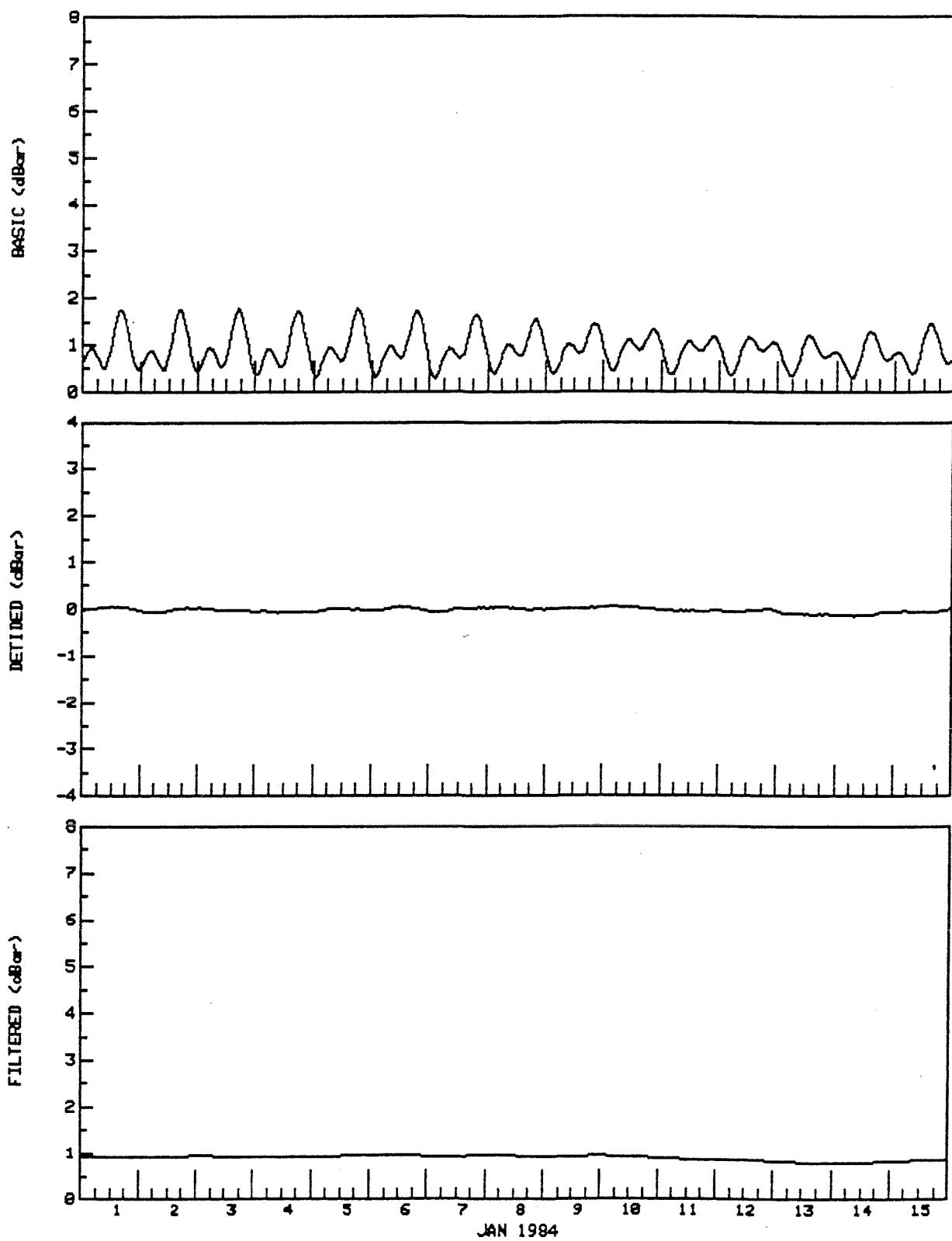
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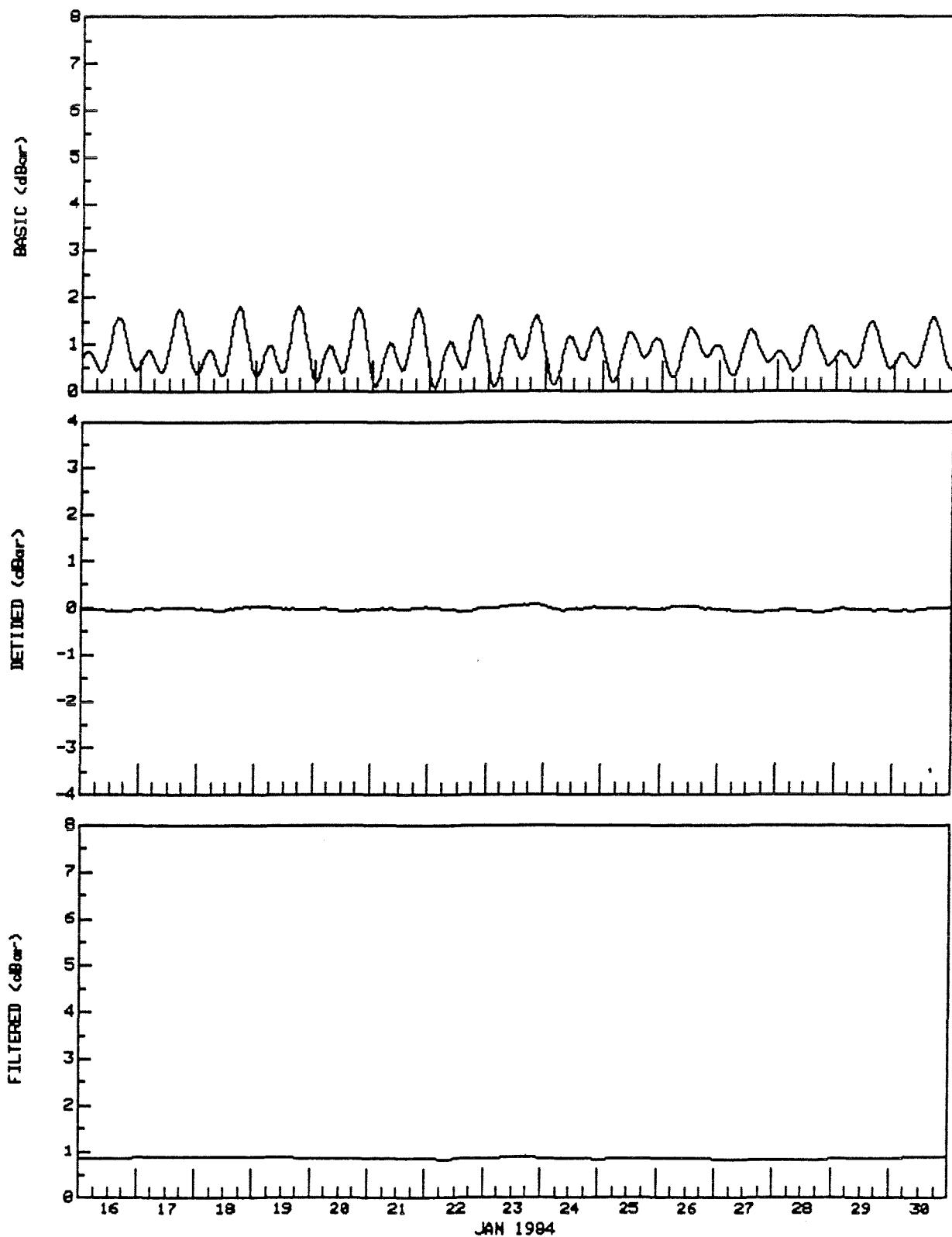
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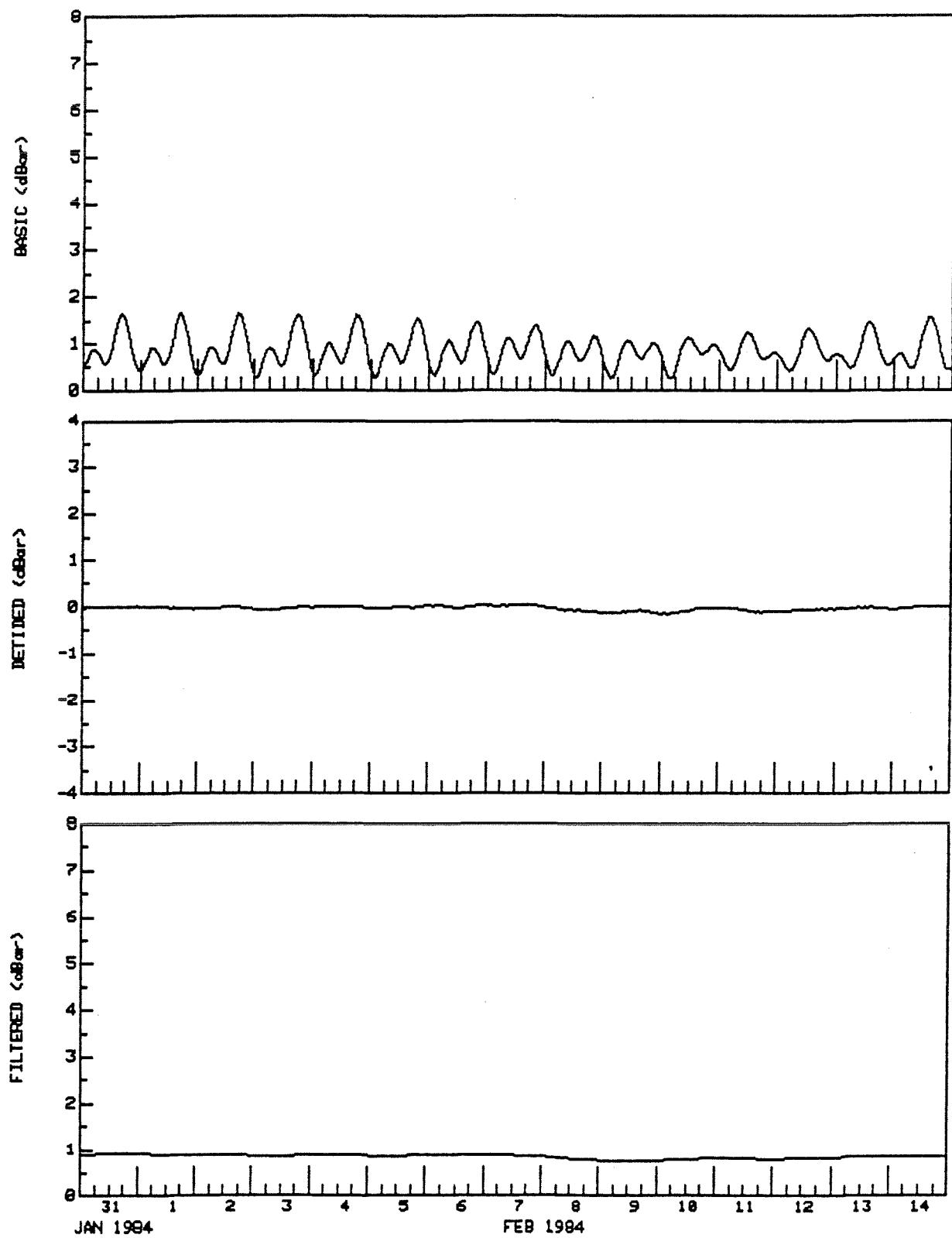
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DT(min) 60

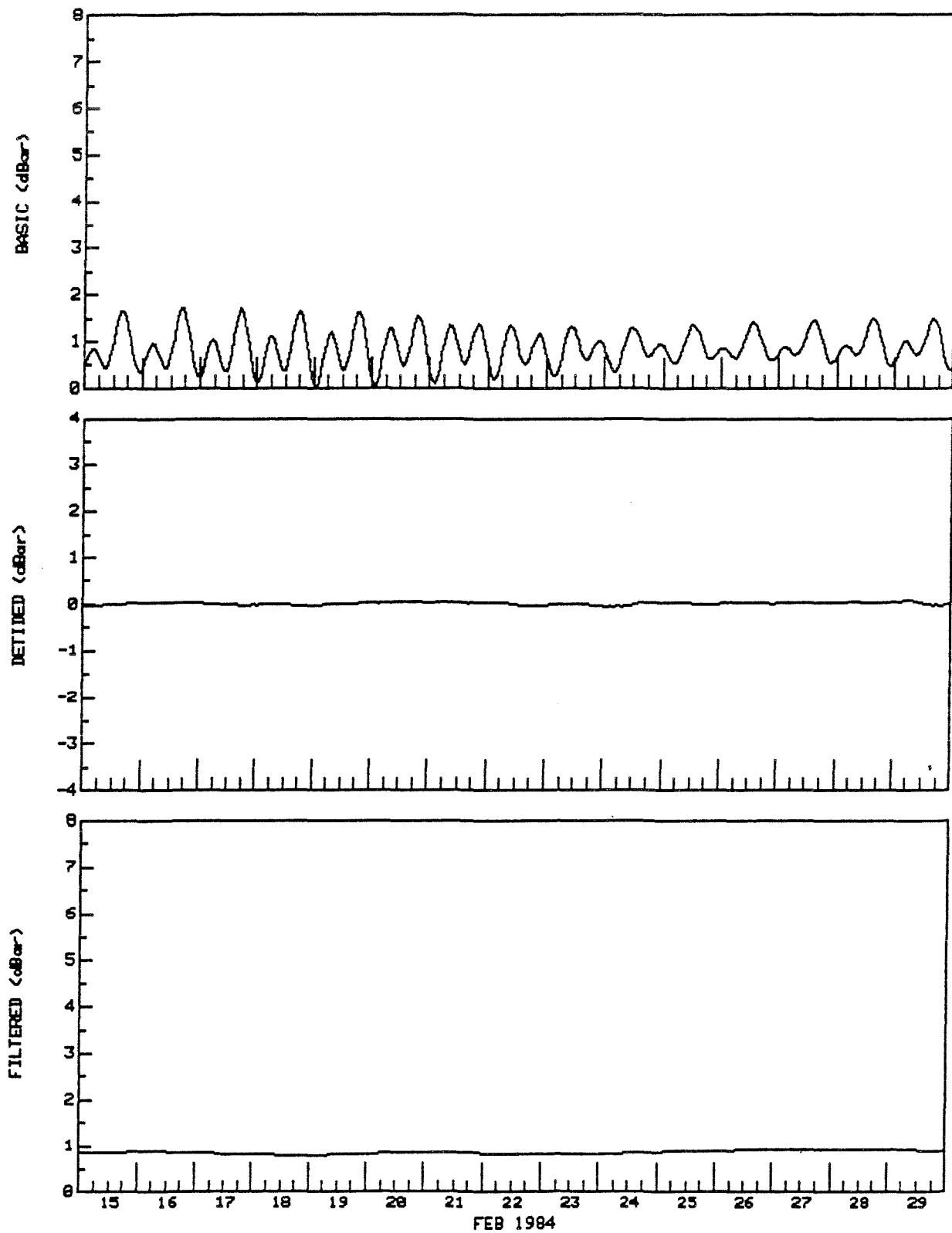
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CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
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71 46' N 71 41' W AANDERAA WLRS DT(min) 60



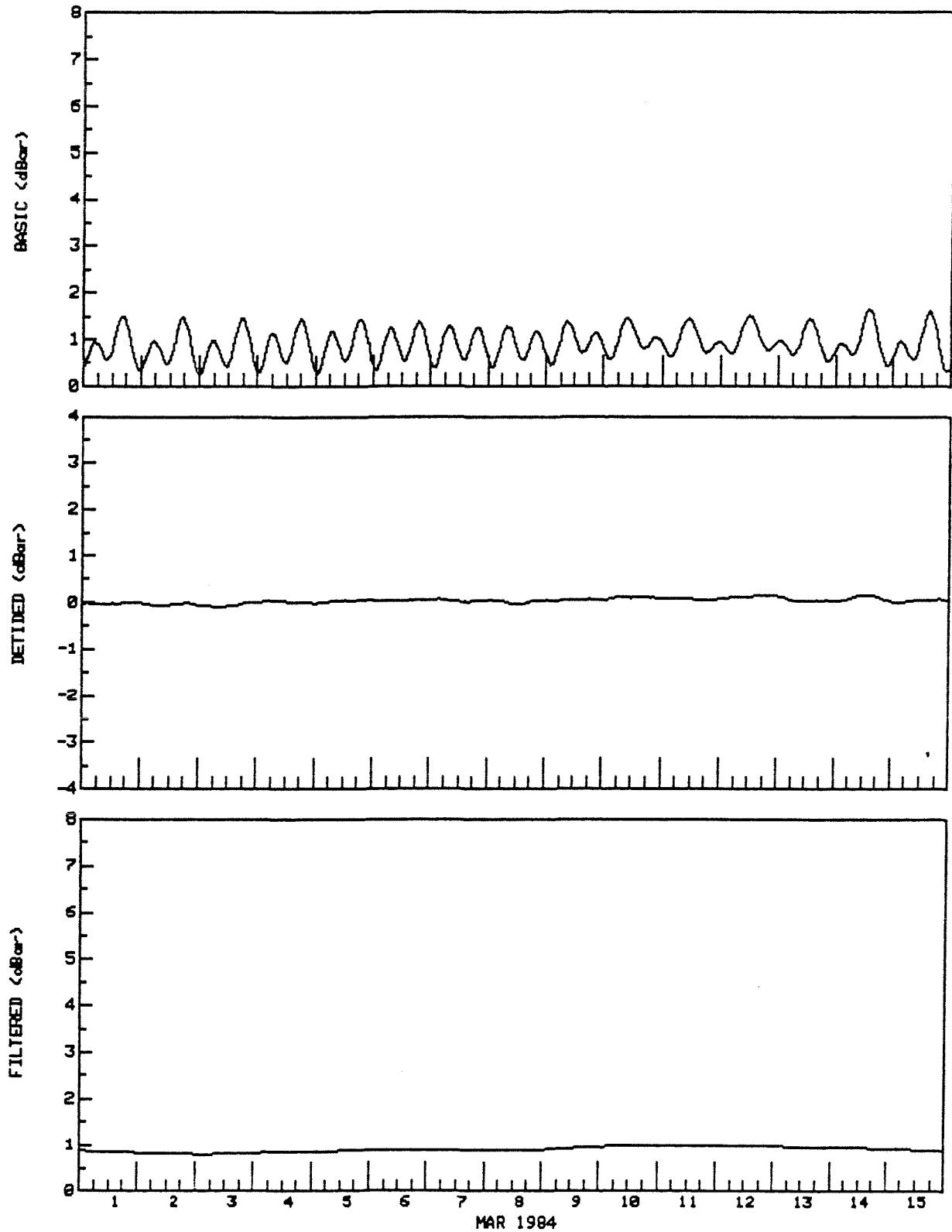
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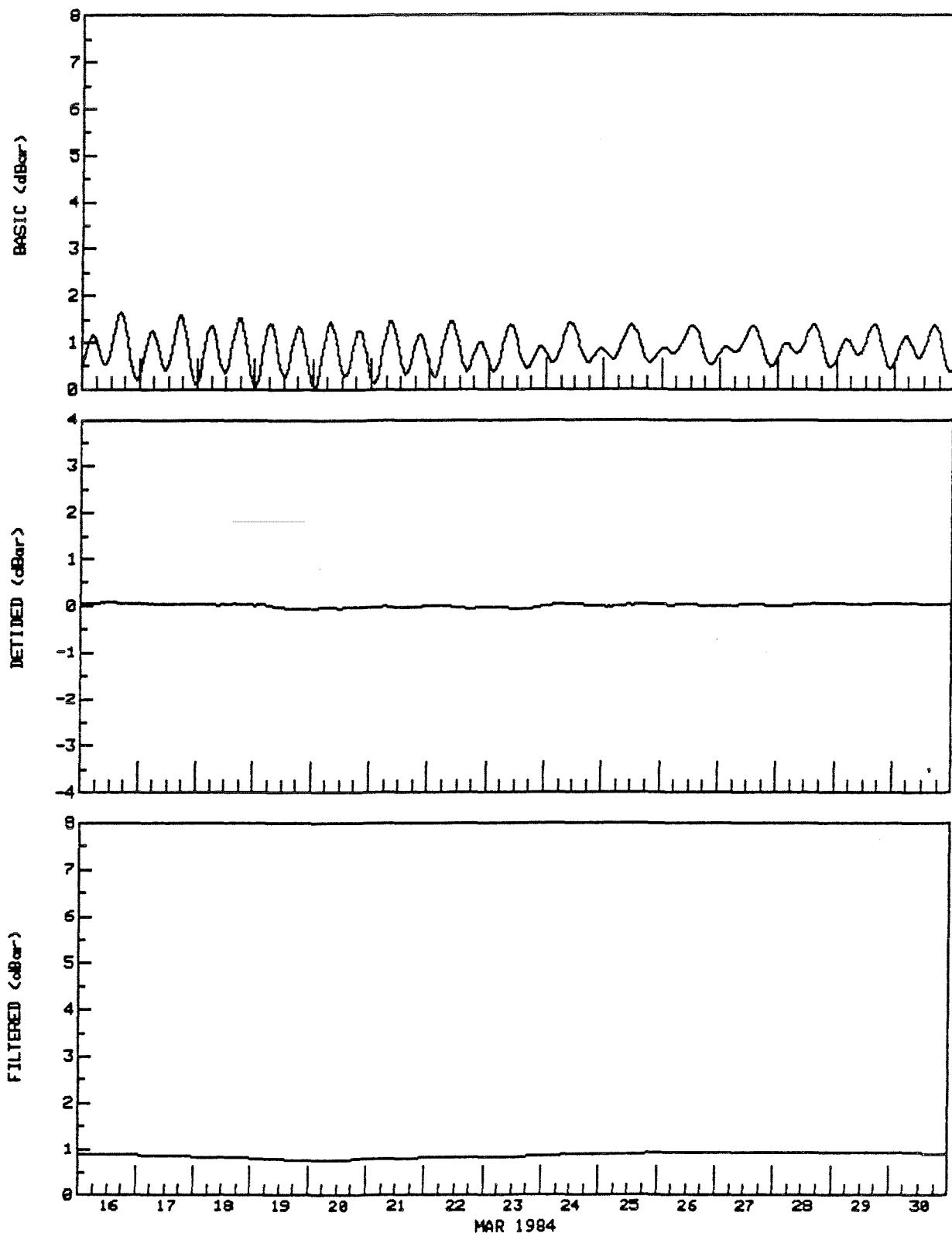
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CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

TAPE 341/1

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TYPE DESPIKED
DT(min) 60

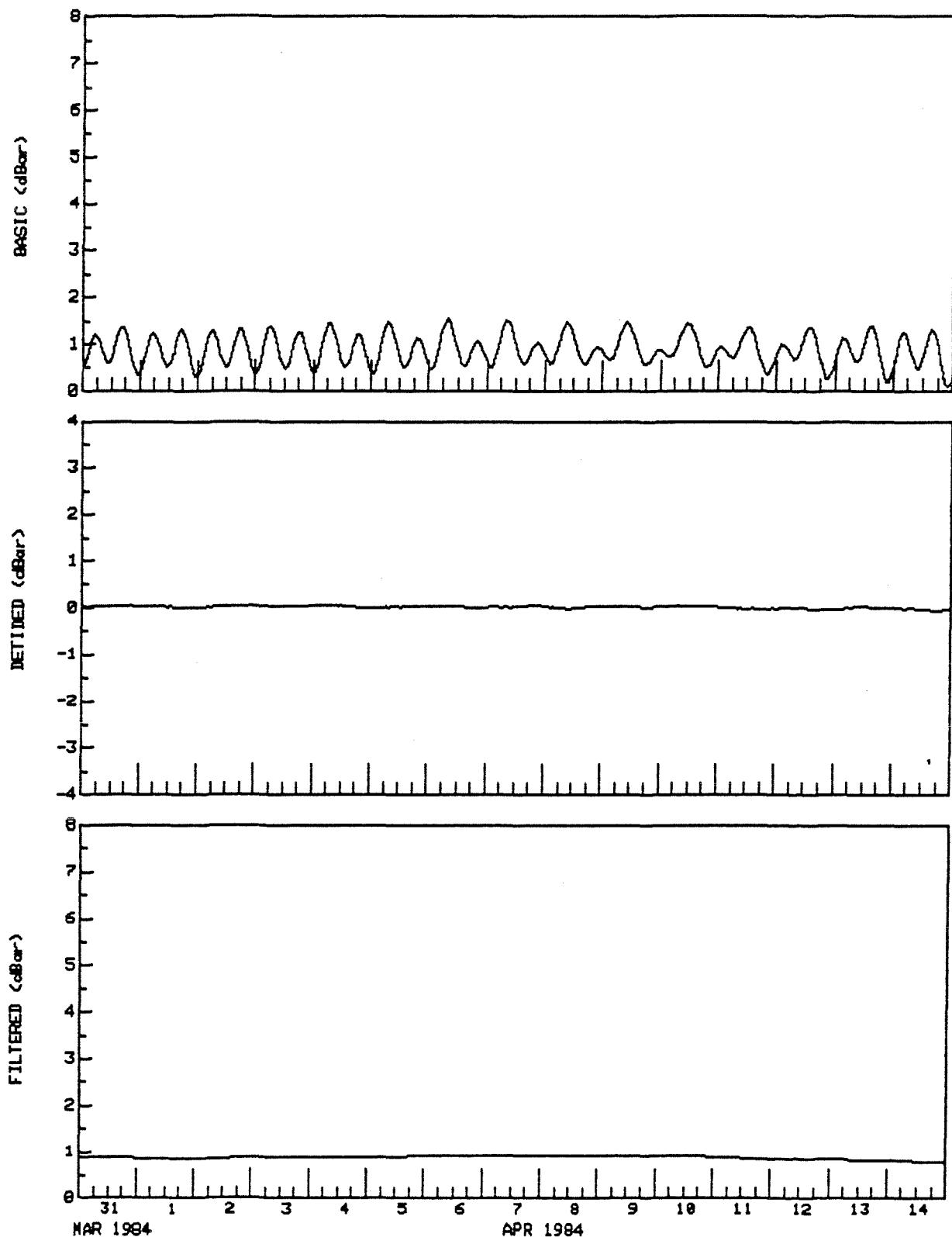
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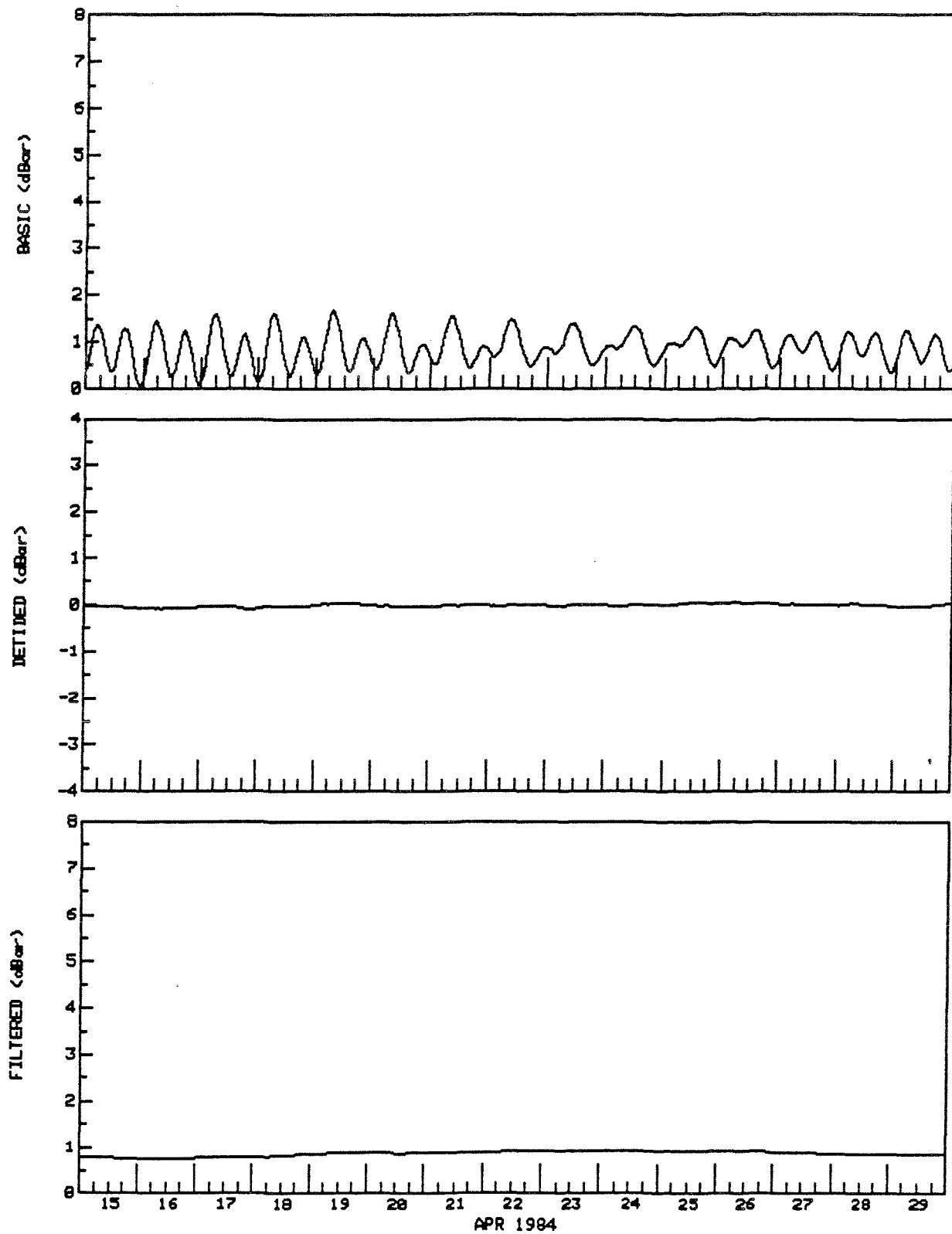
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CENTRAL BAFFIN BAY
71° 46' N 71° 41' W

TAPE 341/1

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TYPE DESPIKED
DT(min) 60

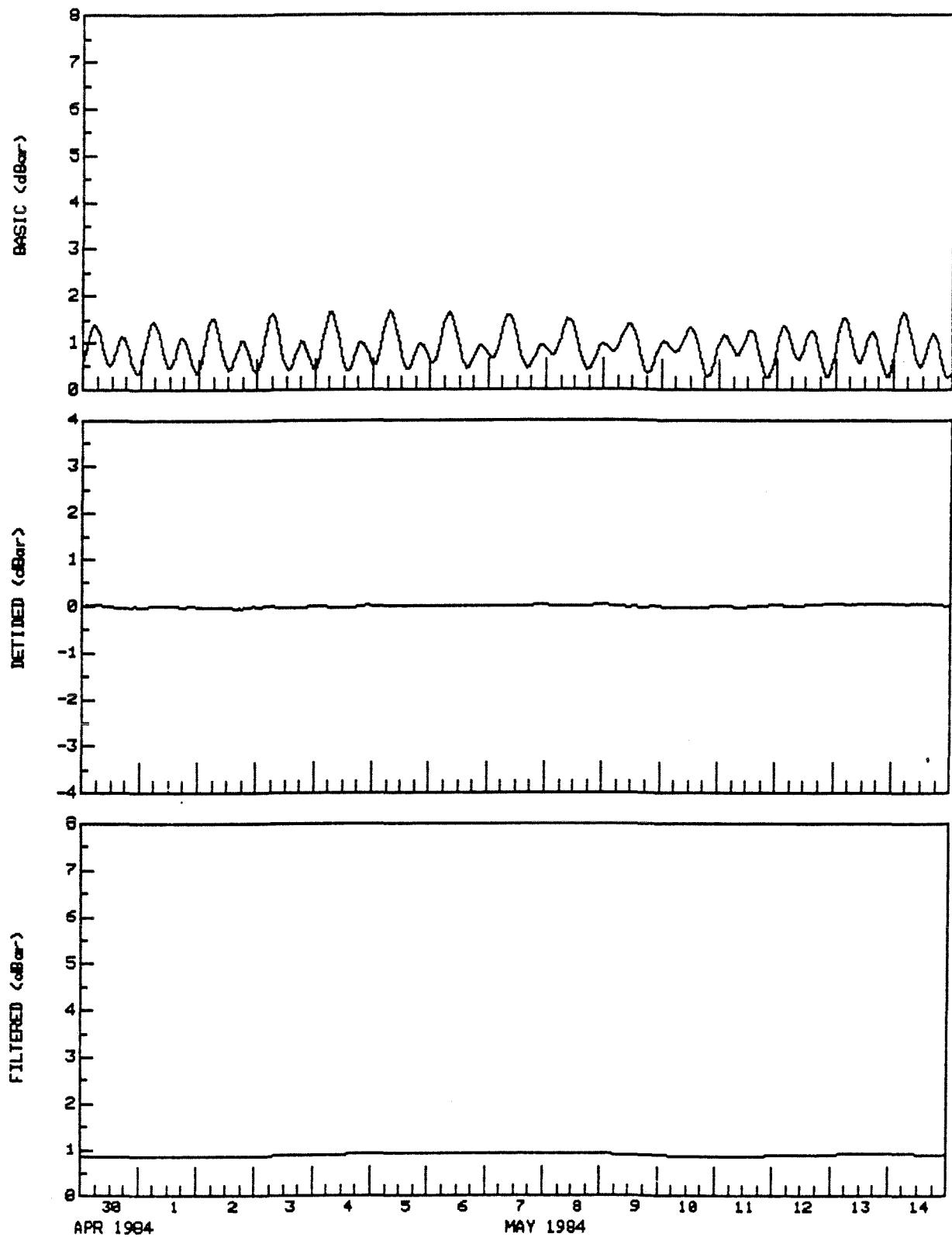
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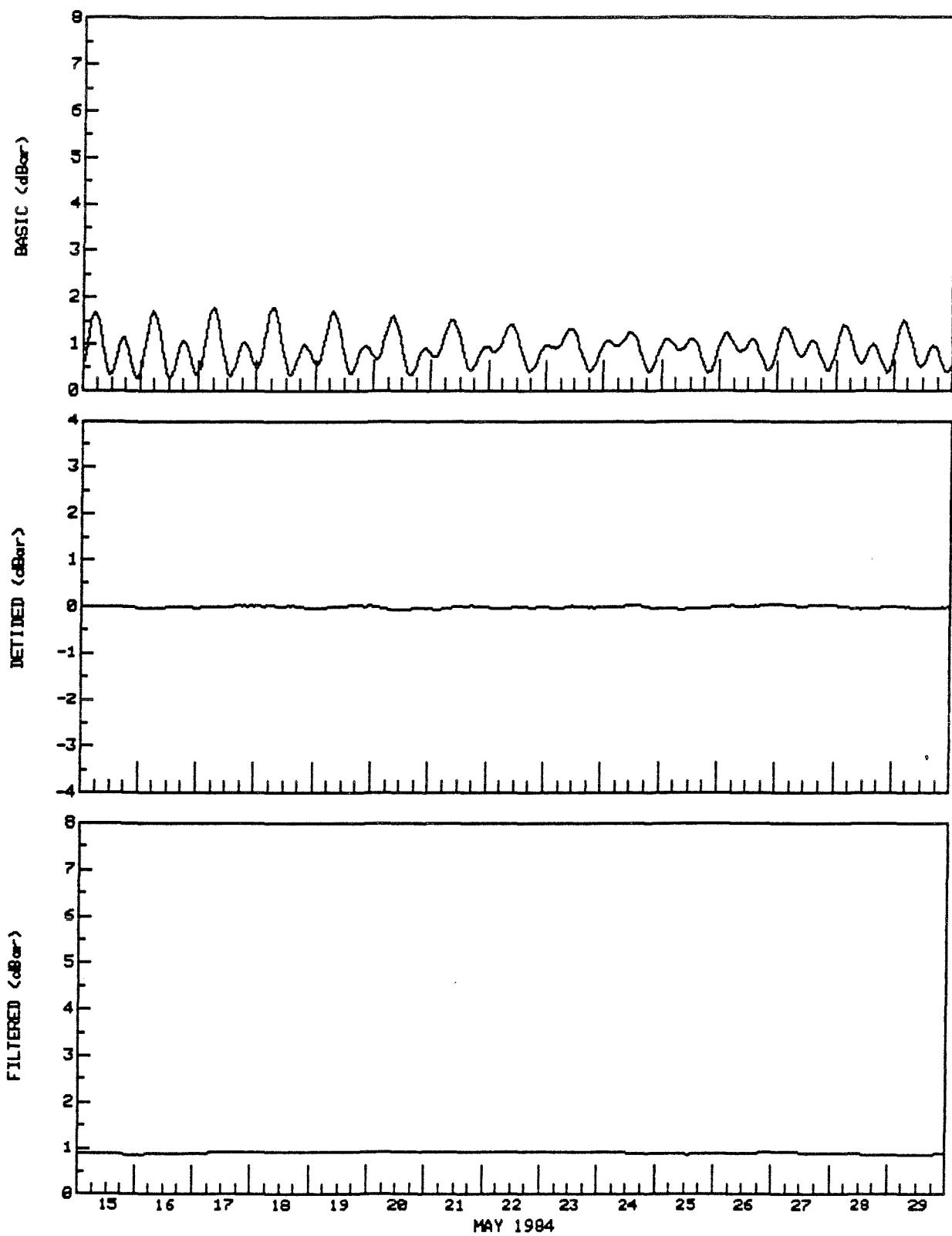
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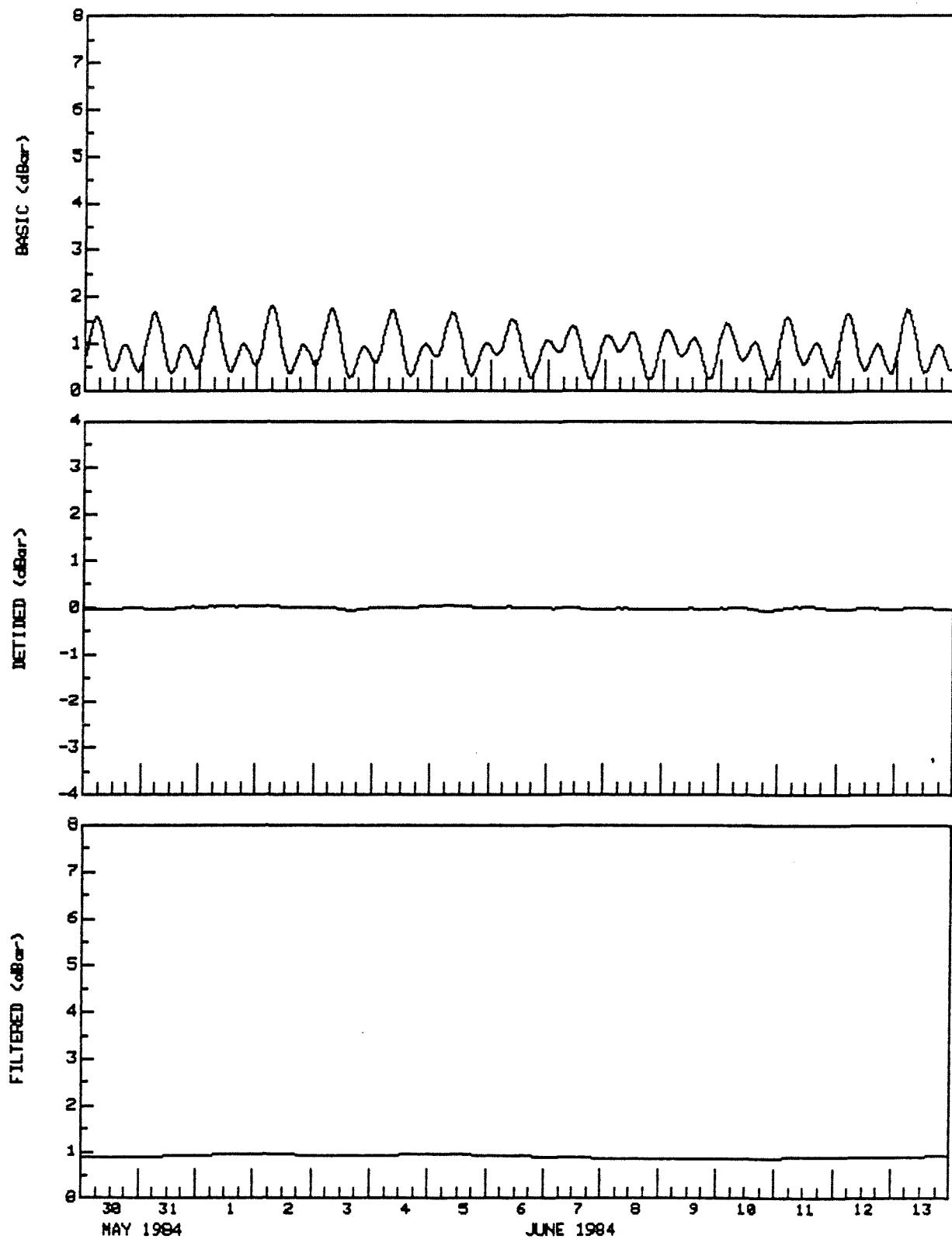
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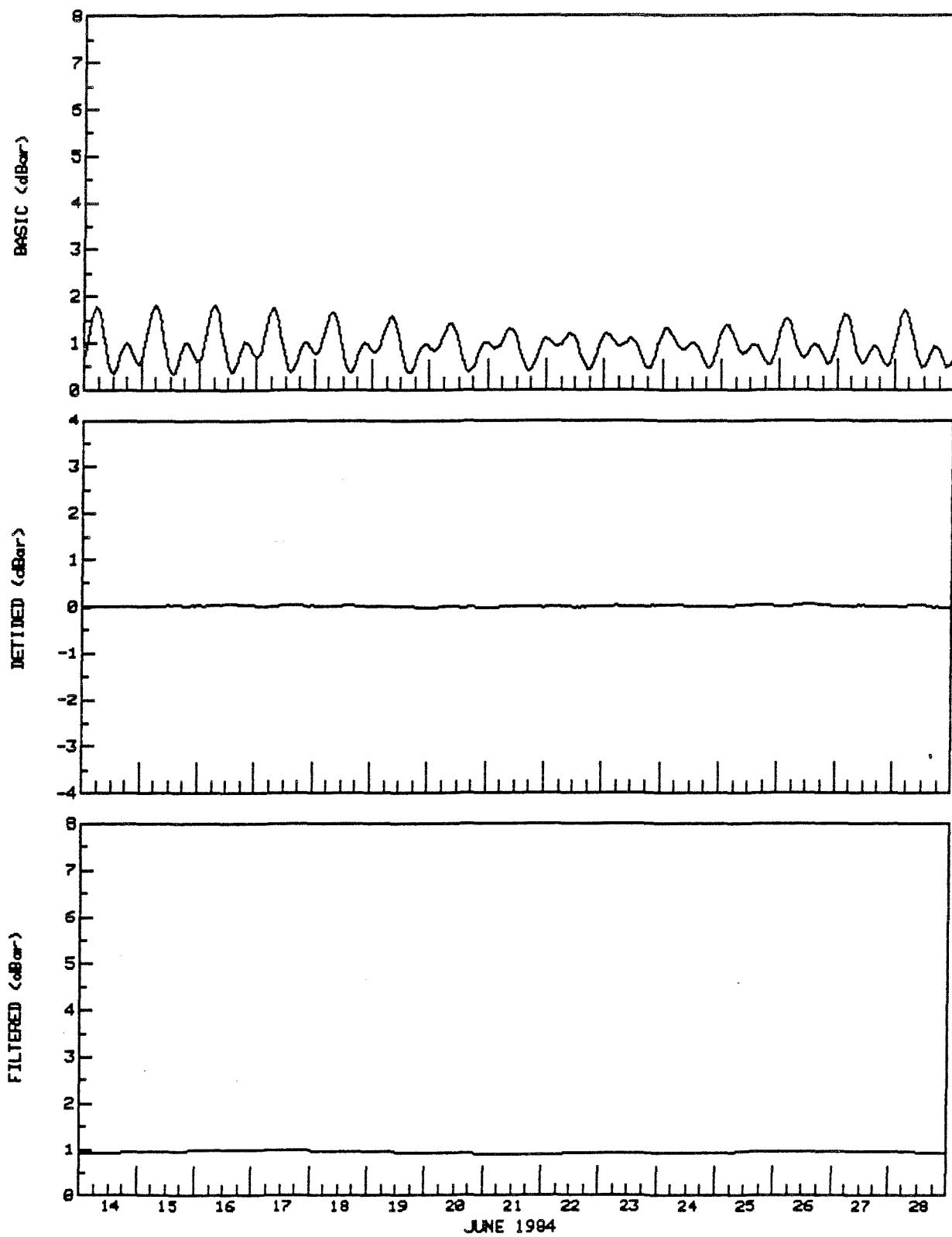
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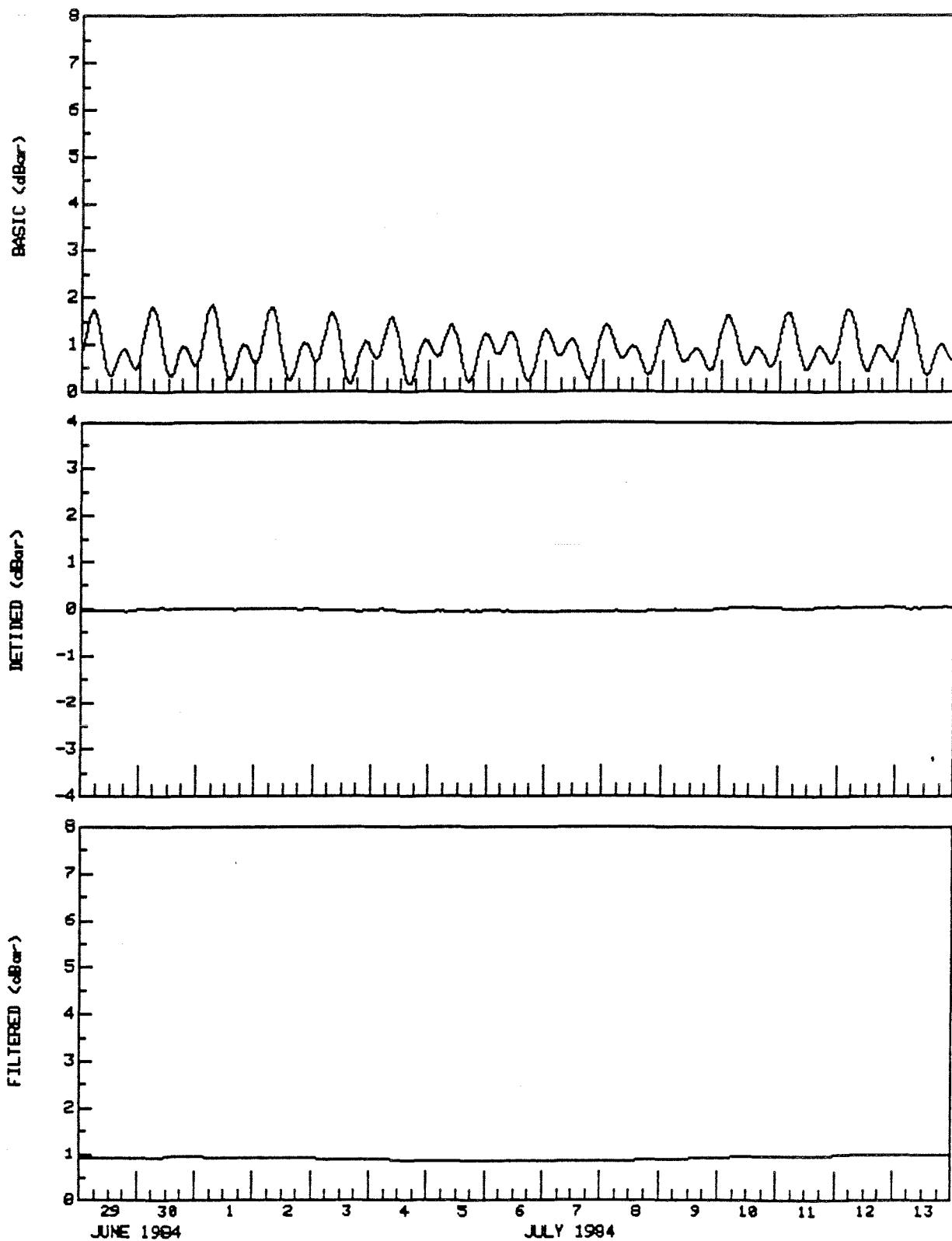
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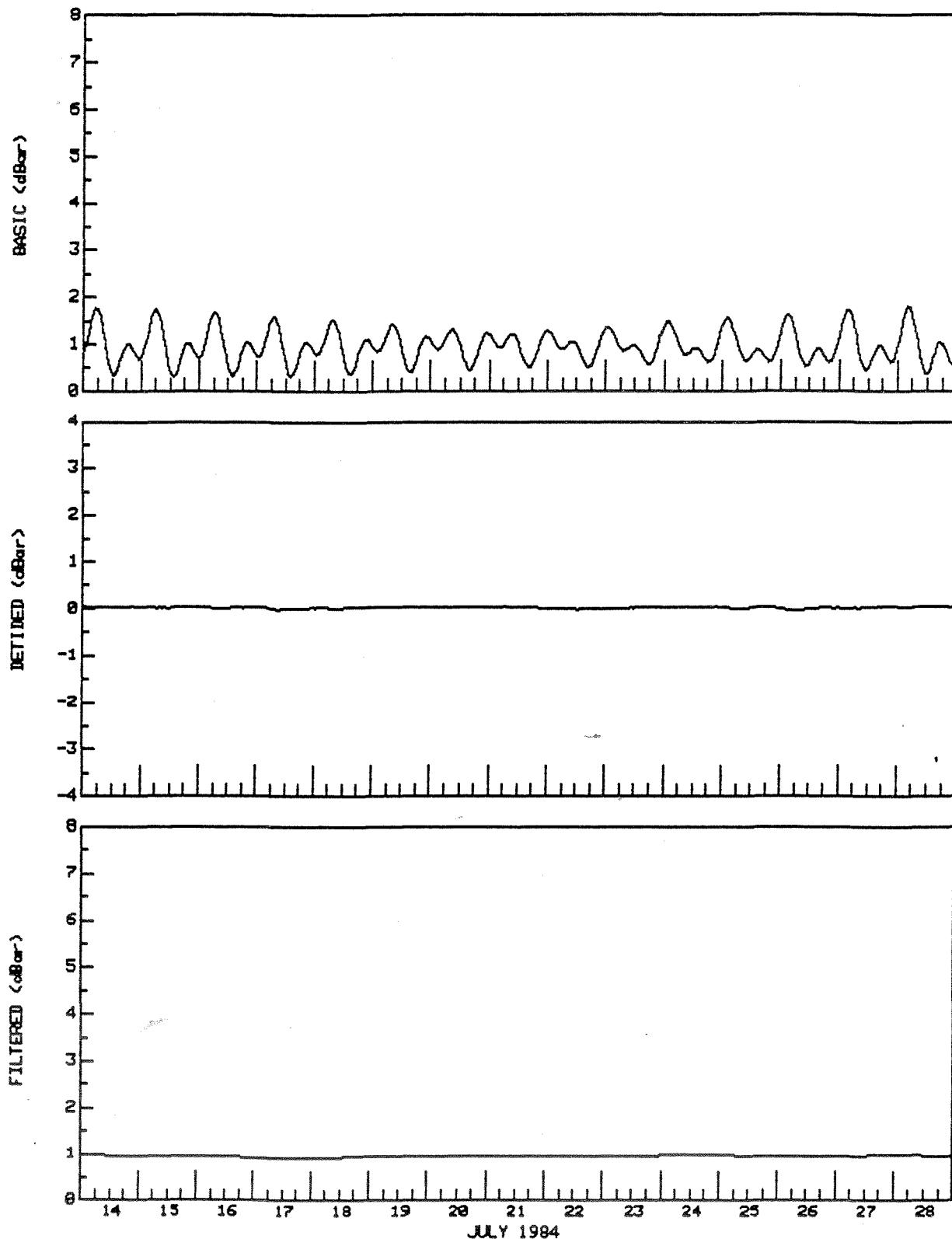
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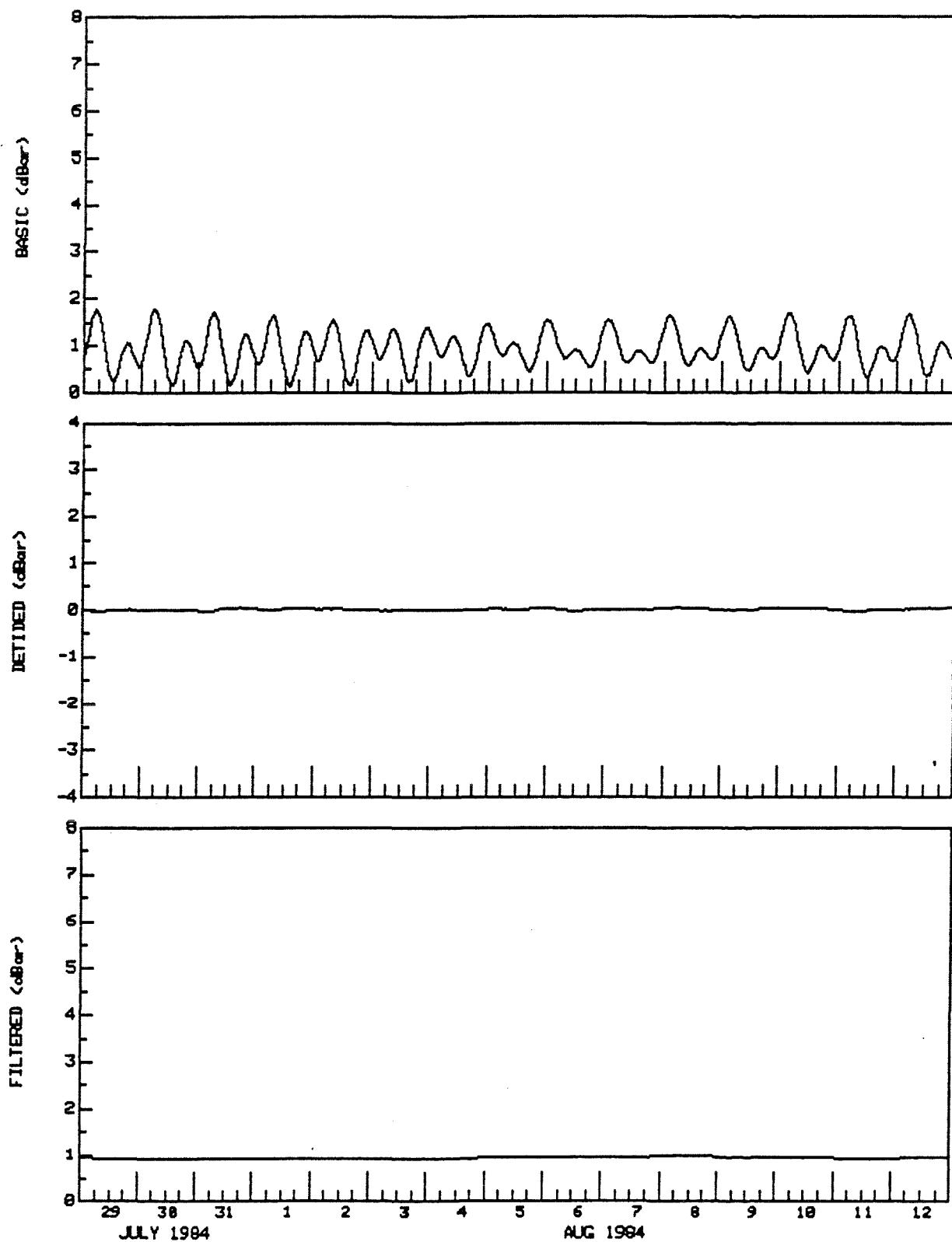
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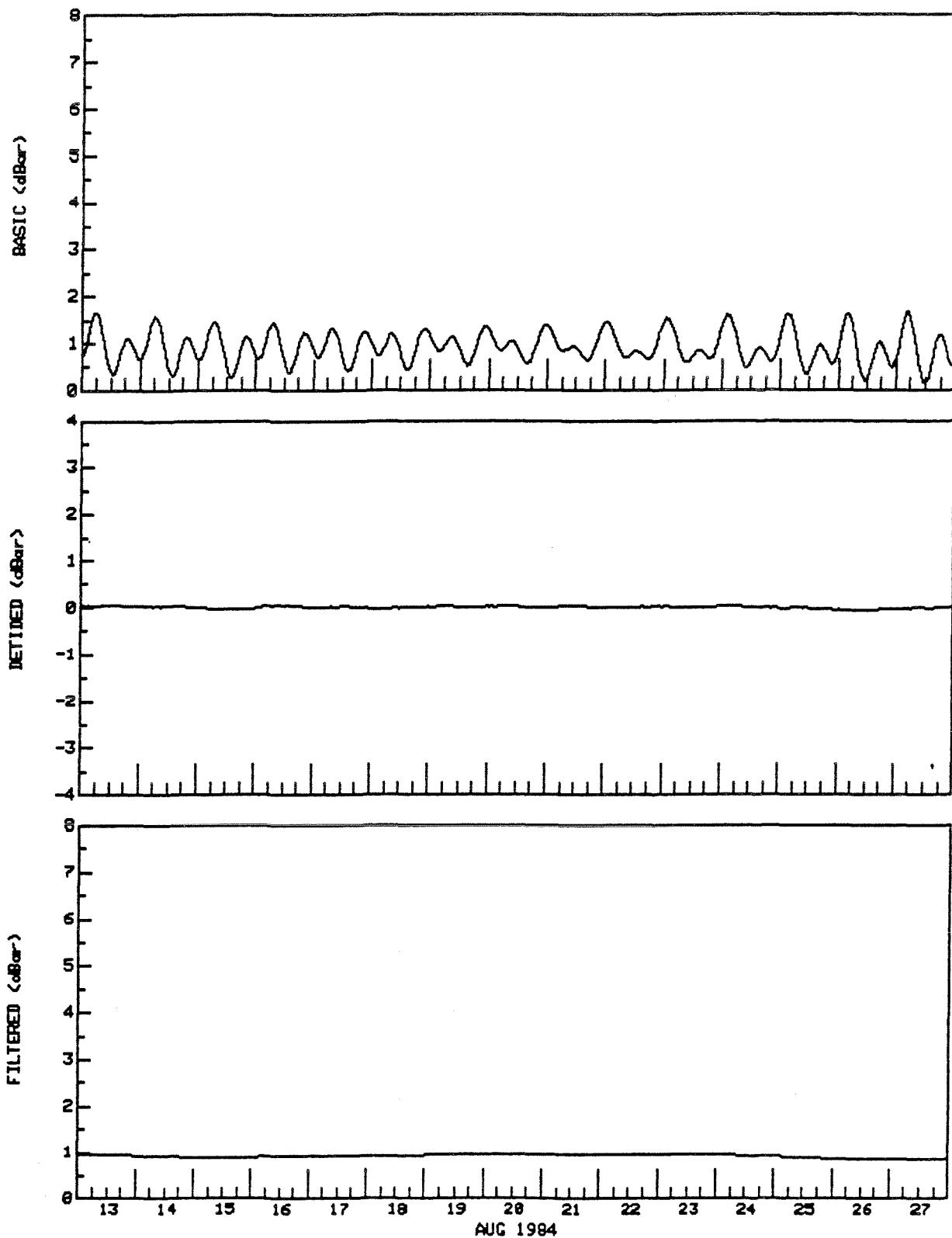
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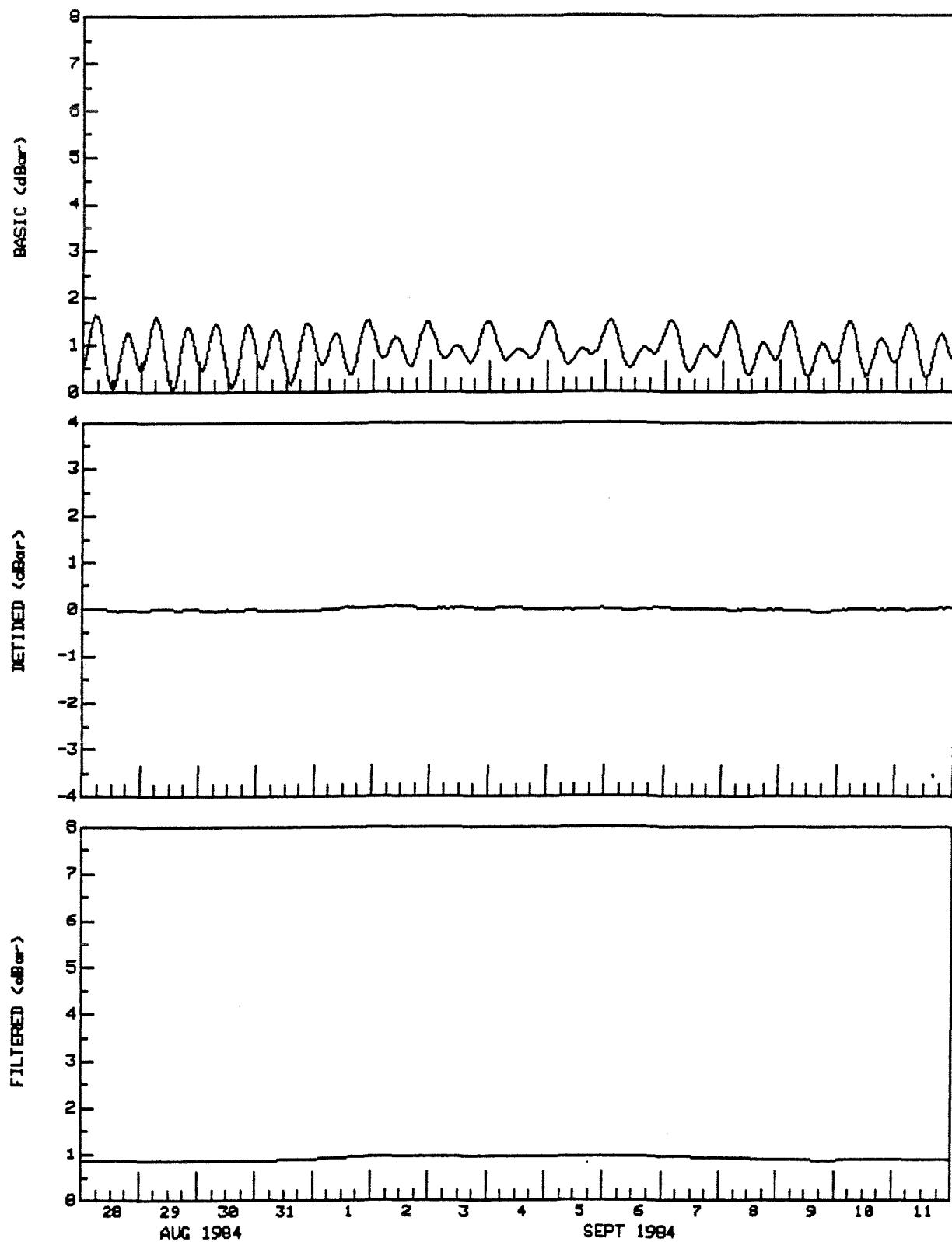
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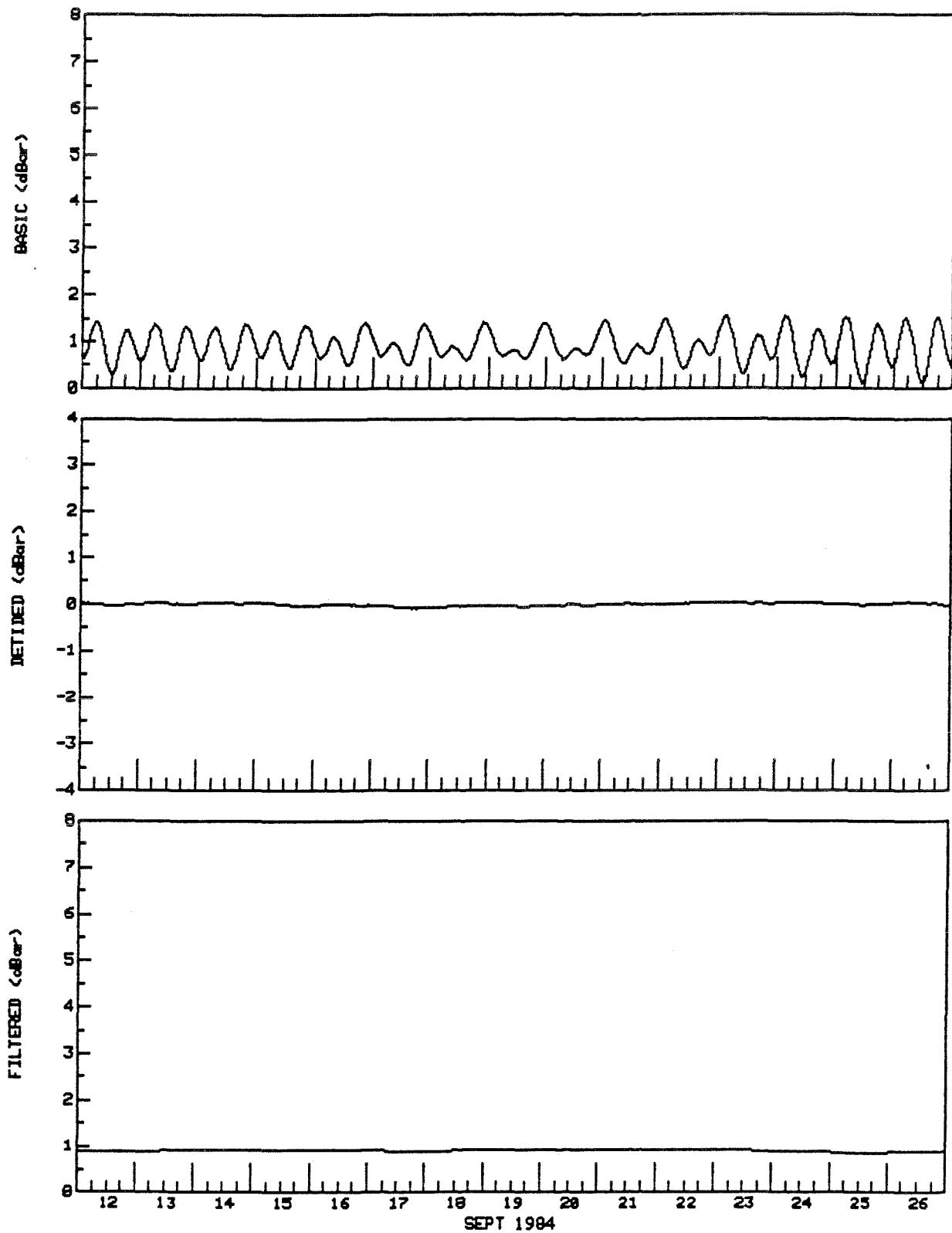
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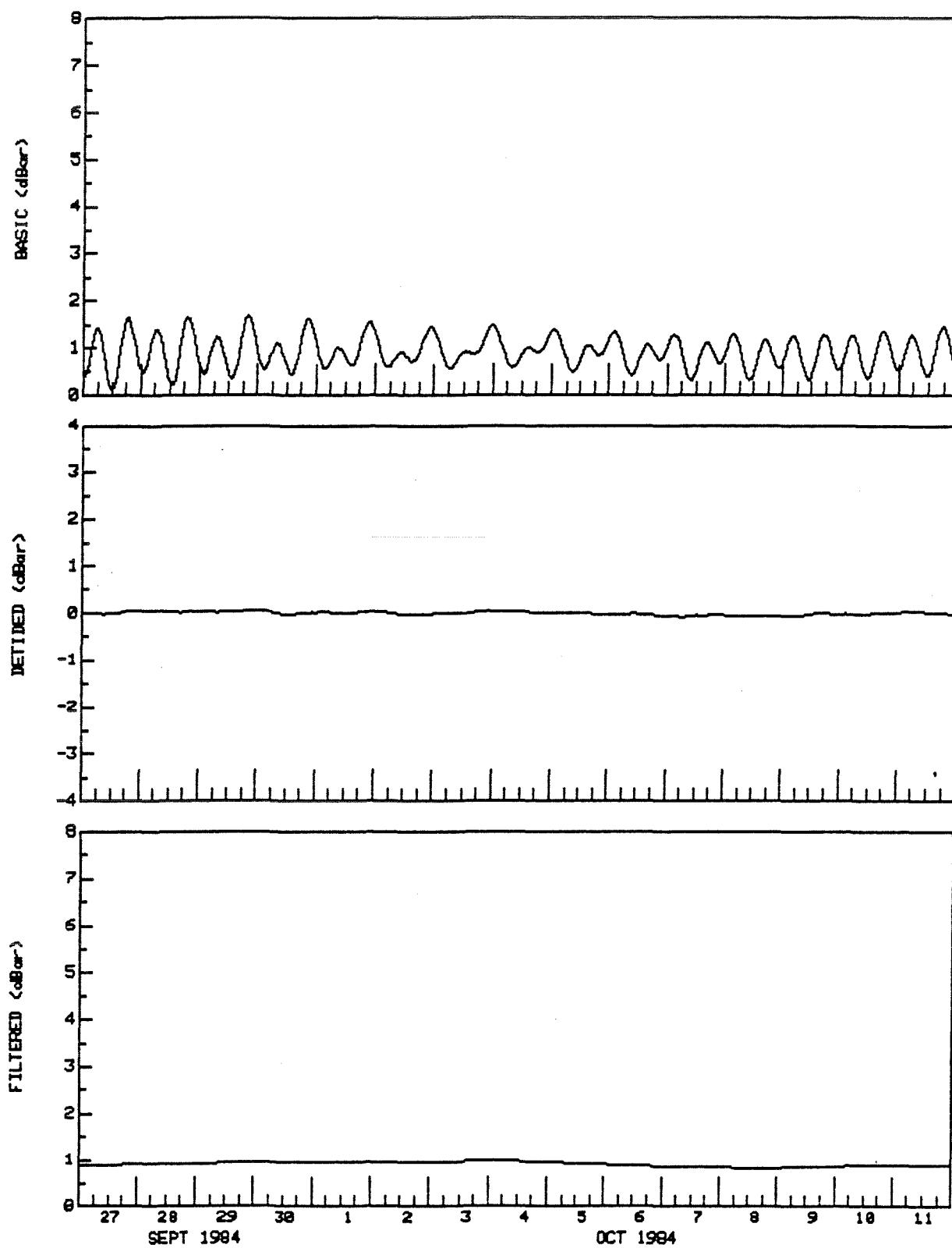
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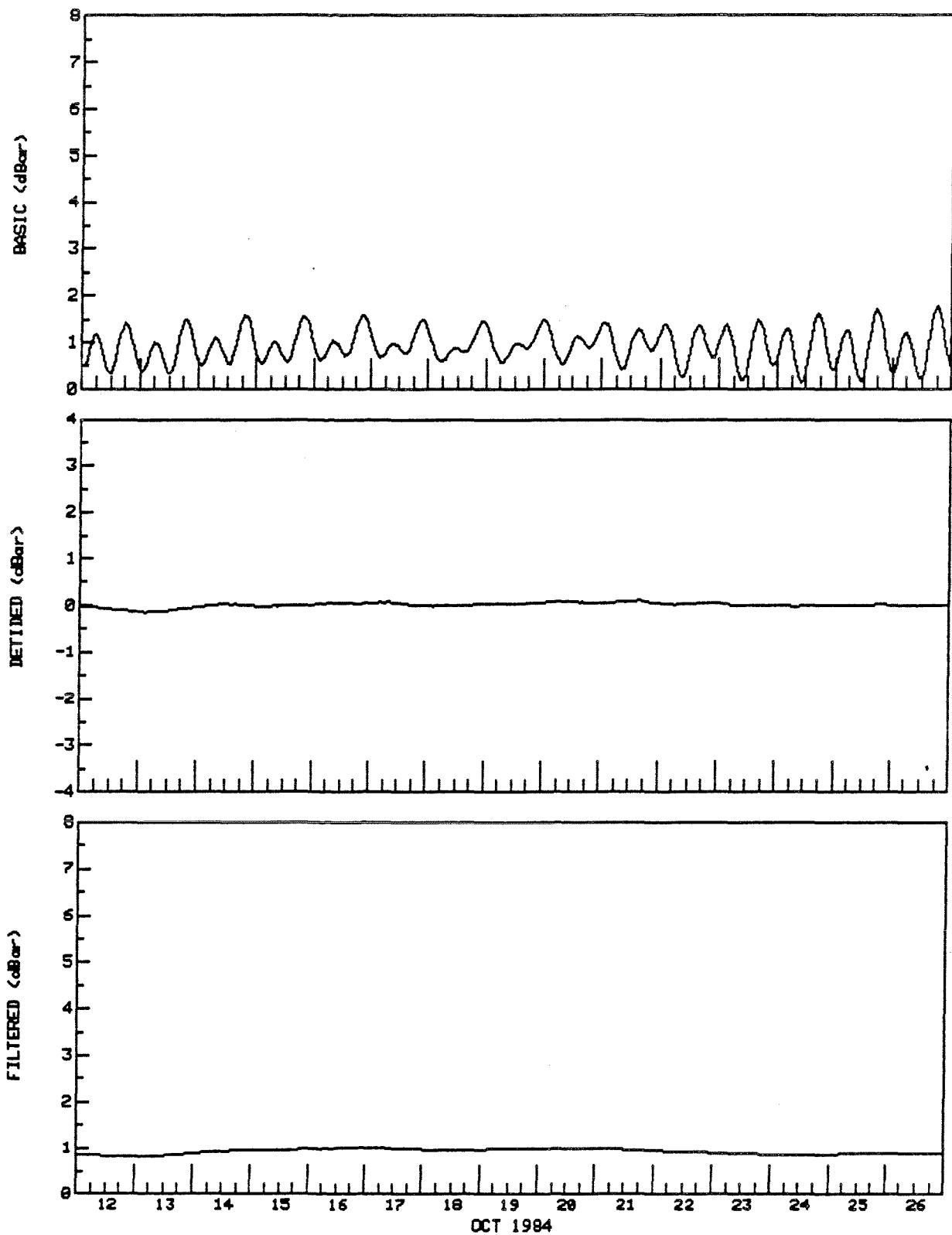
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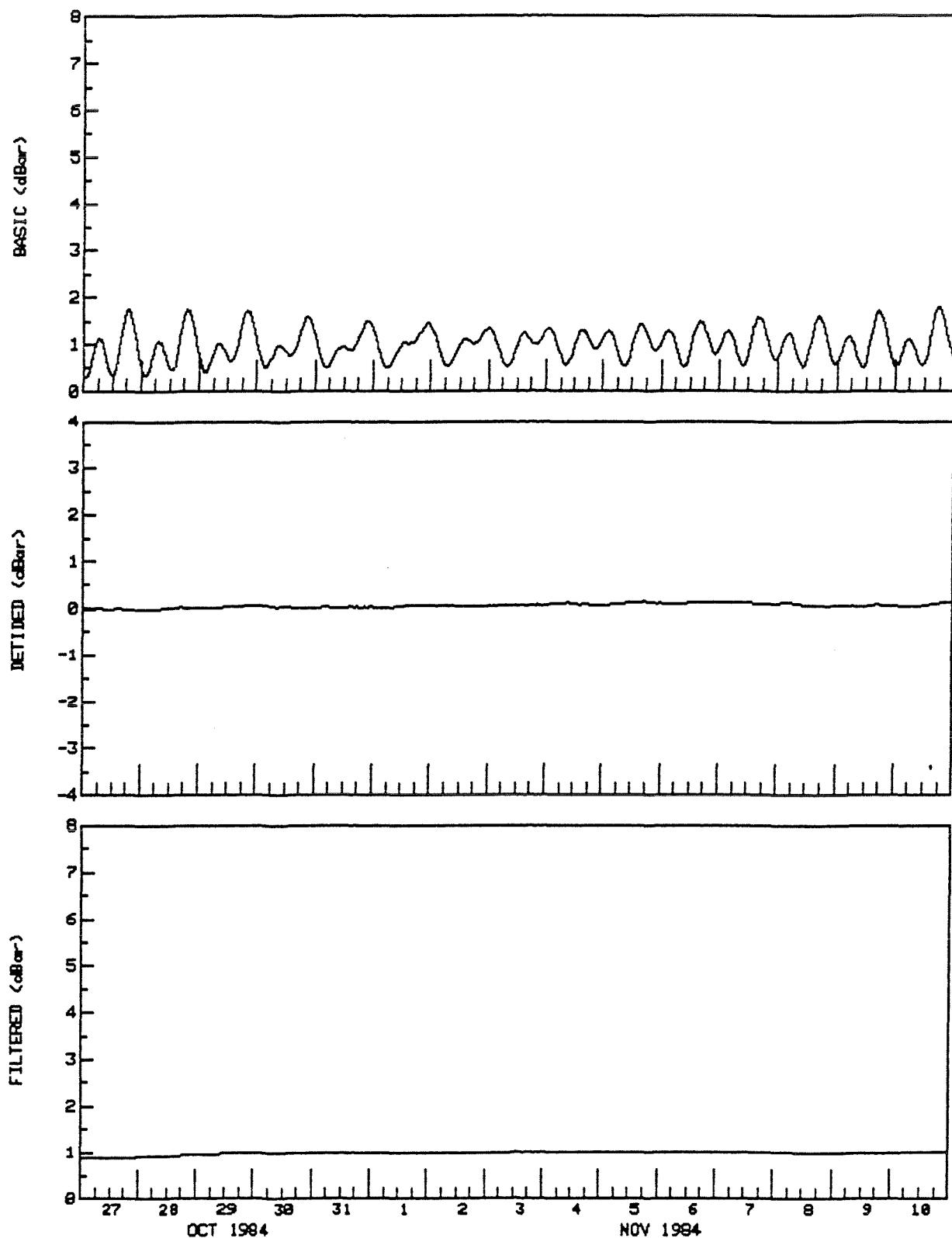
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TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
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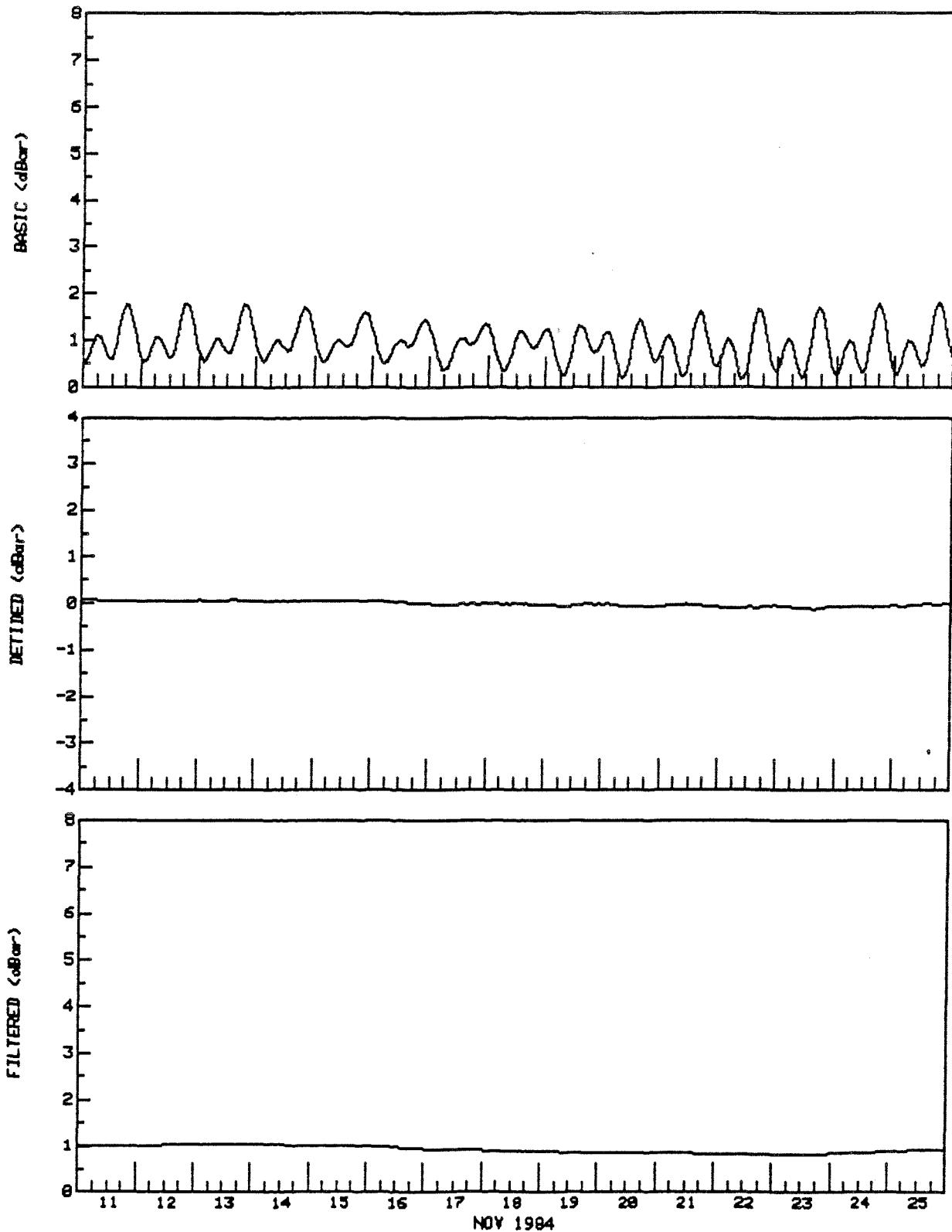
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71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

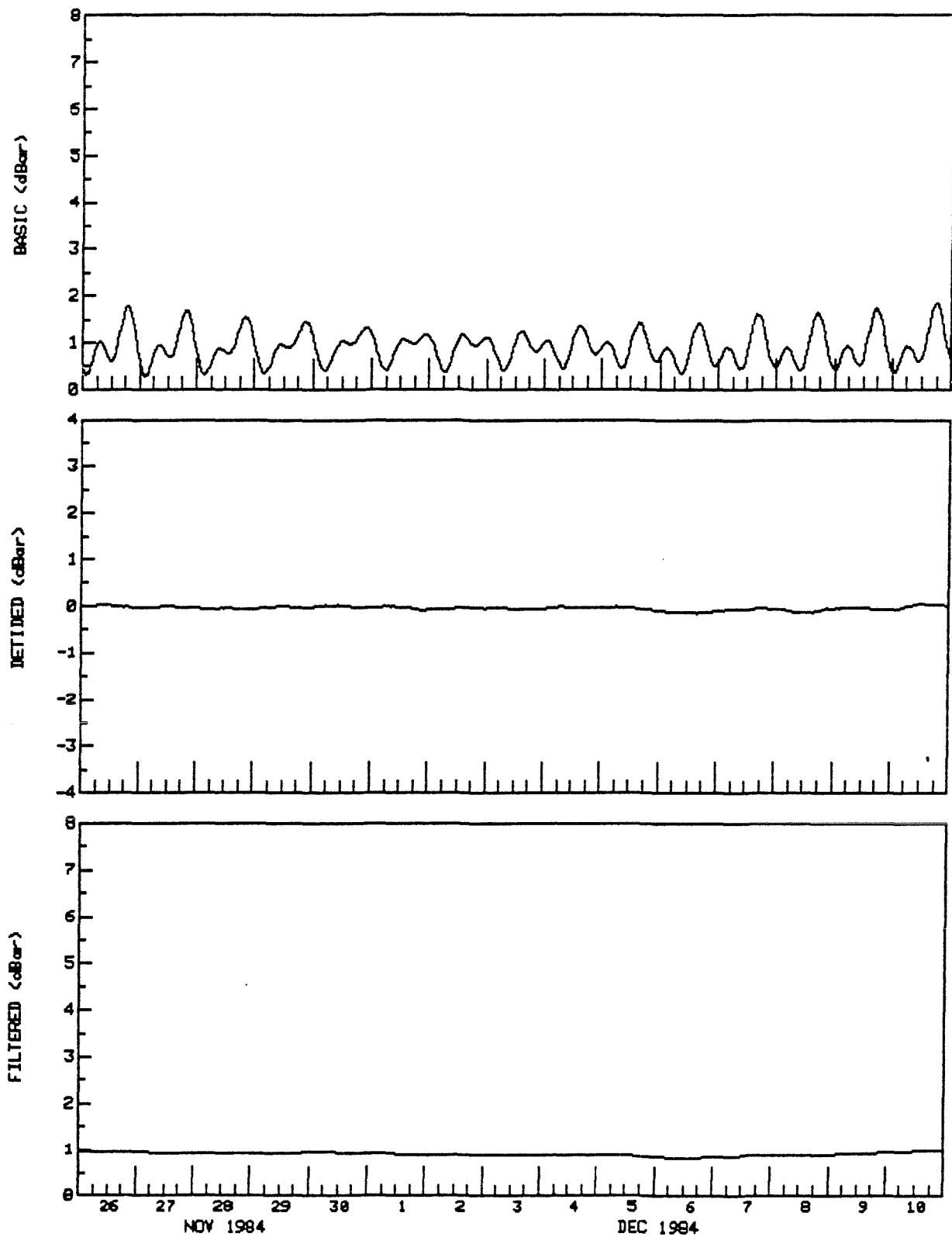
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DT(min) 60

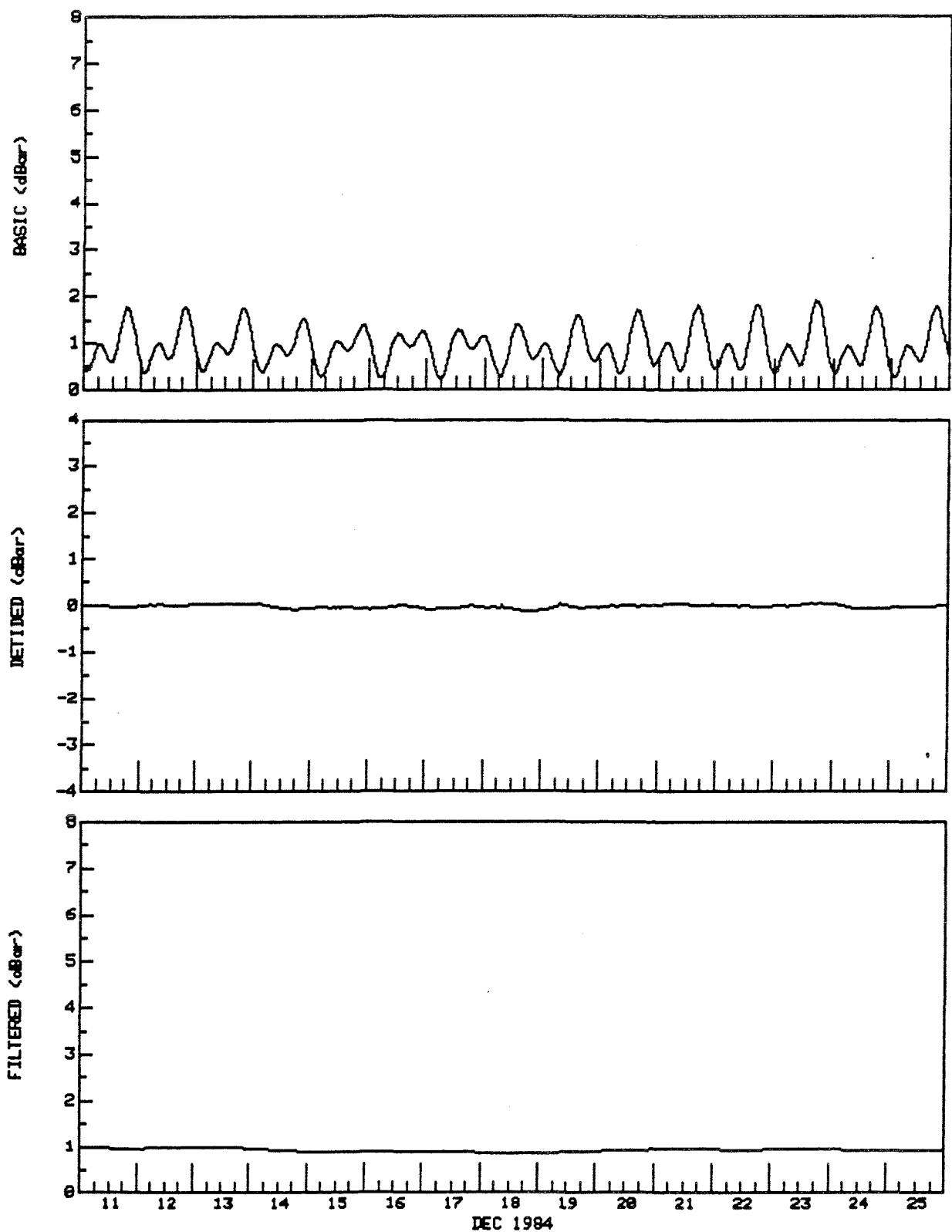
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CENTRAL BAFFIN BAY
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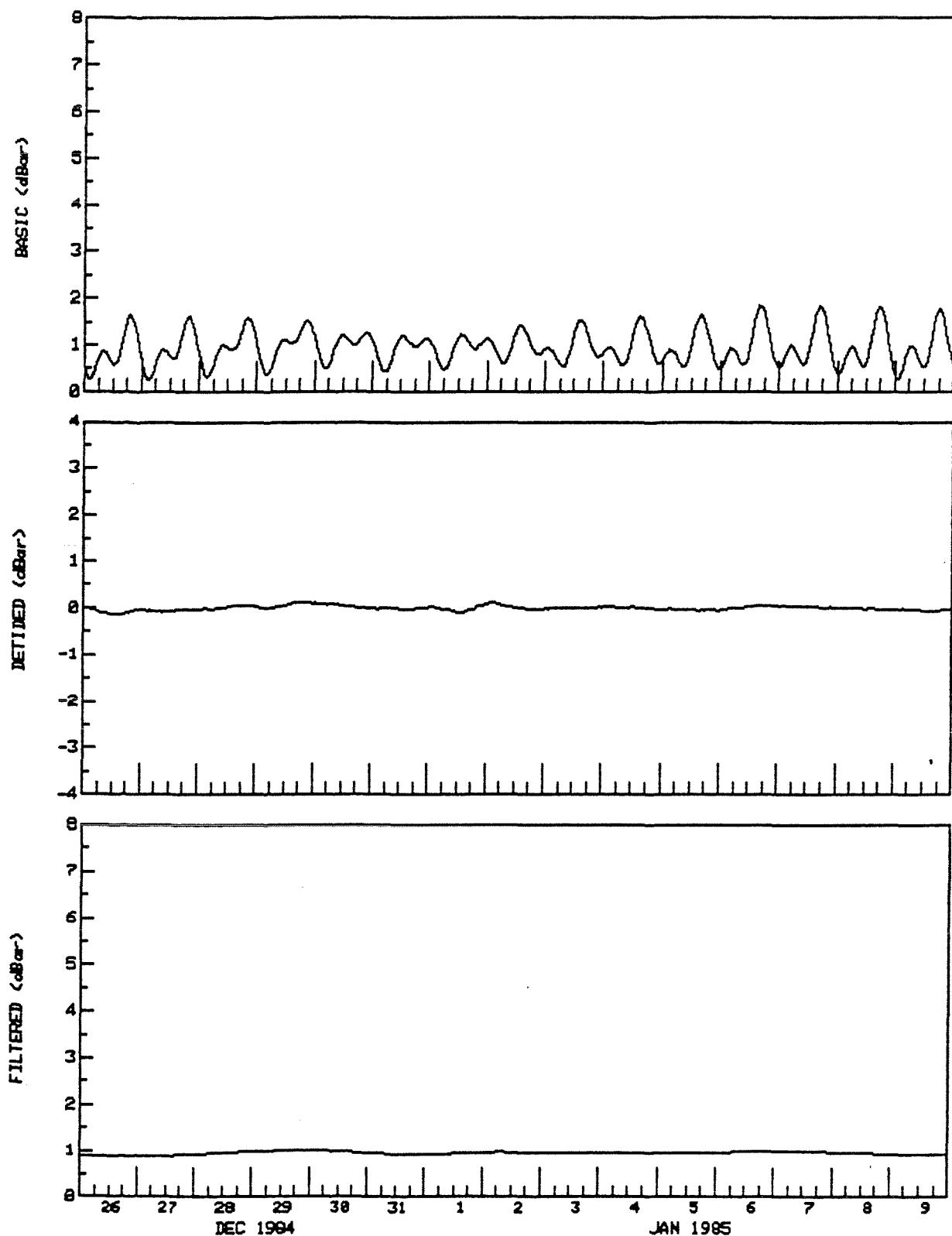
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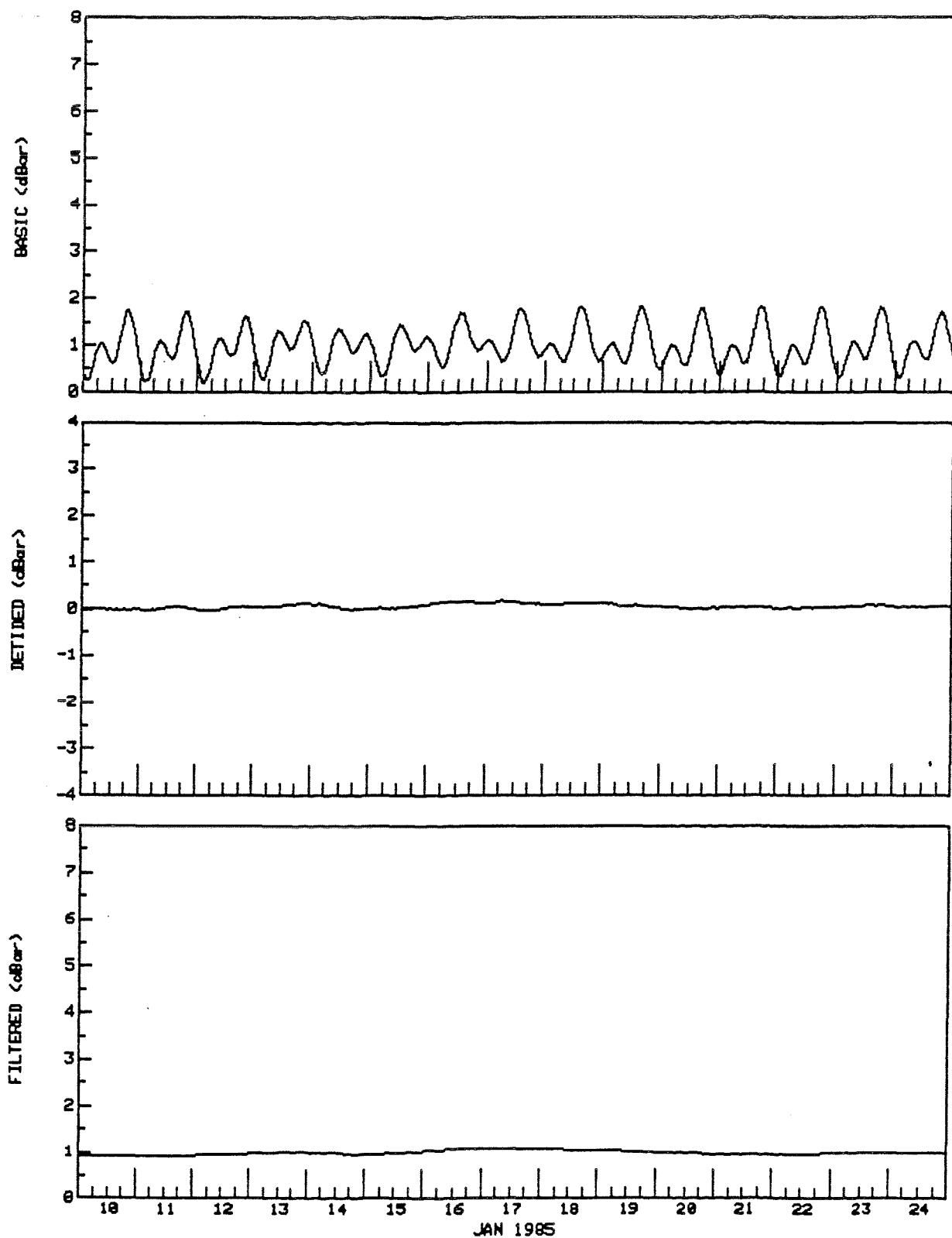
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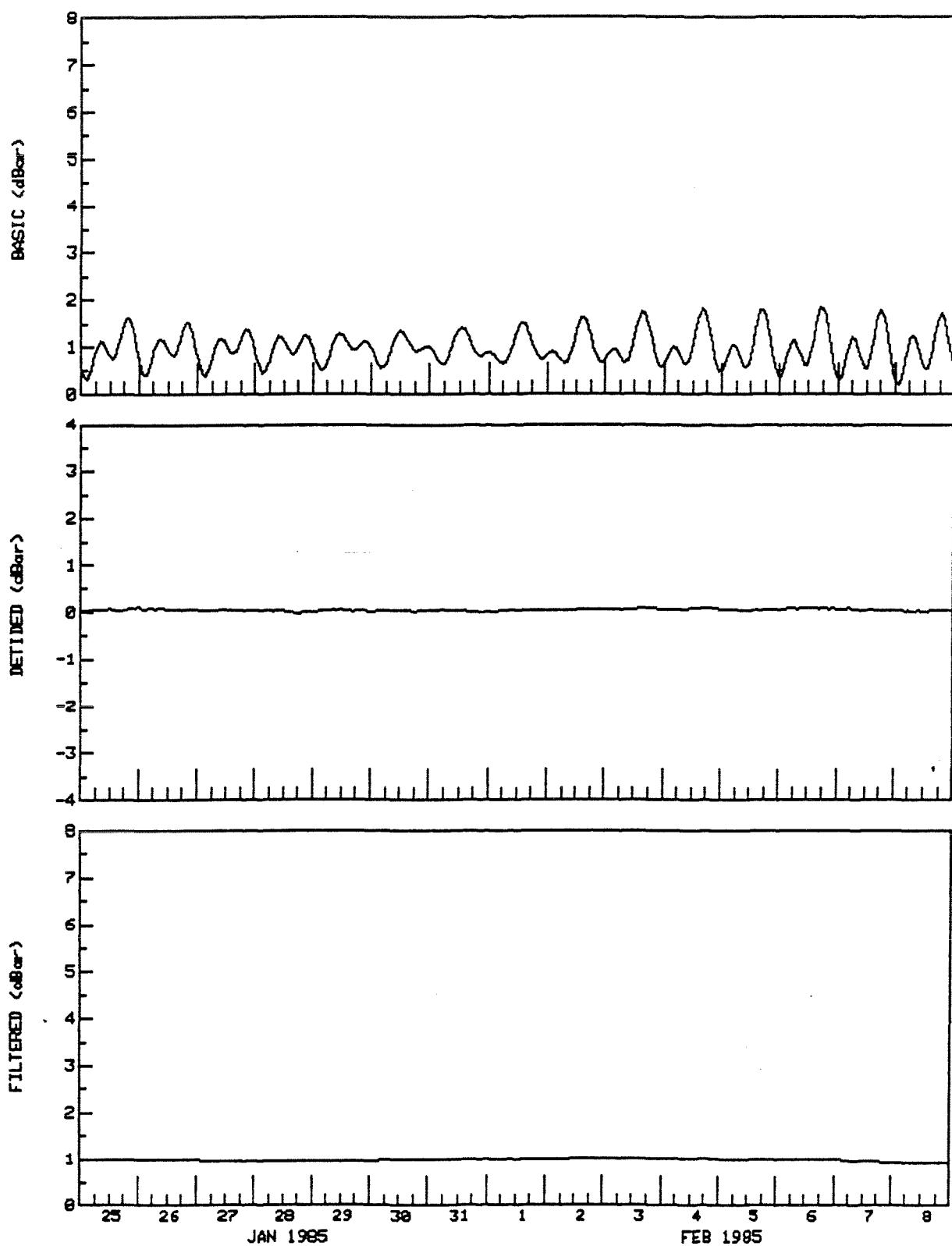
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CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



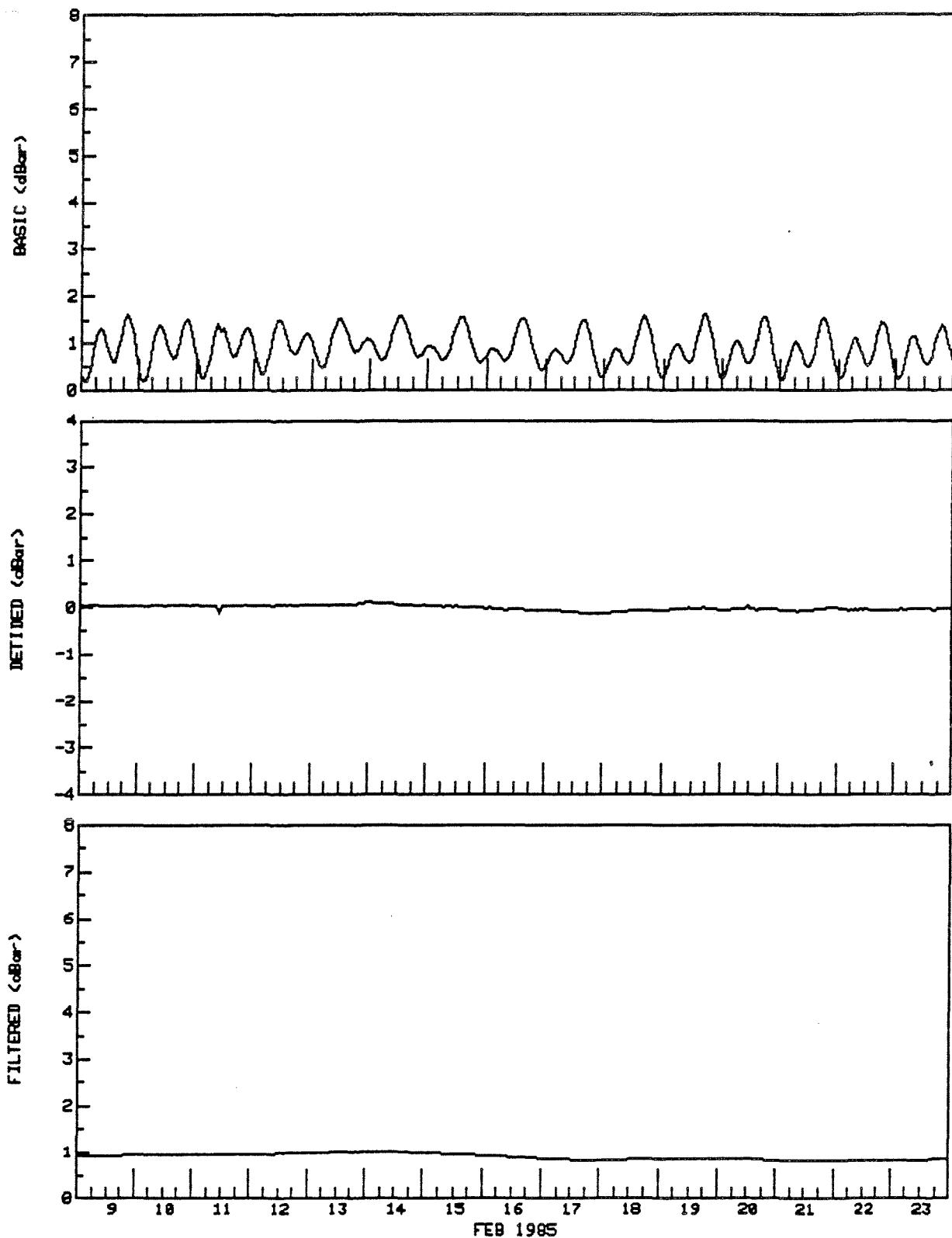
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
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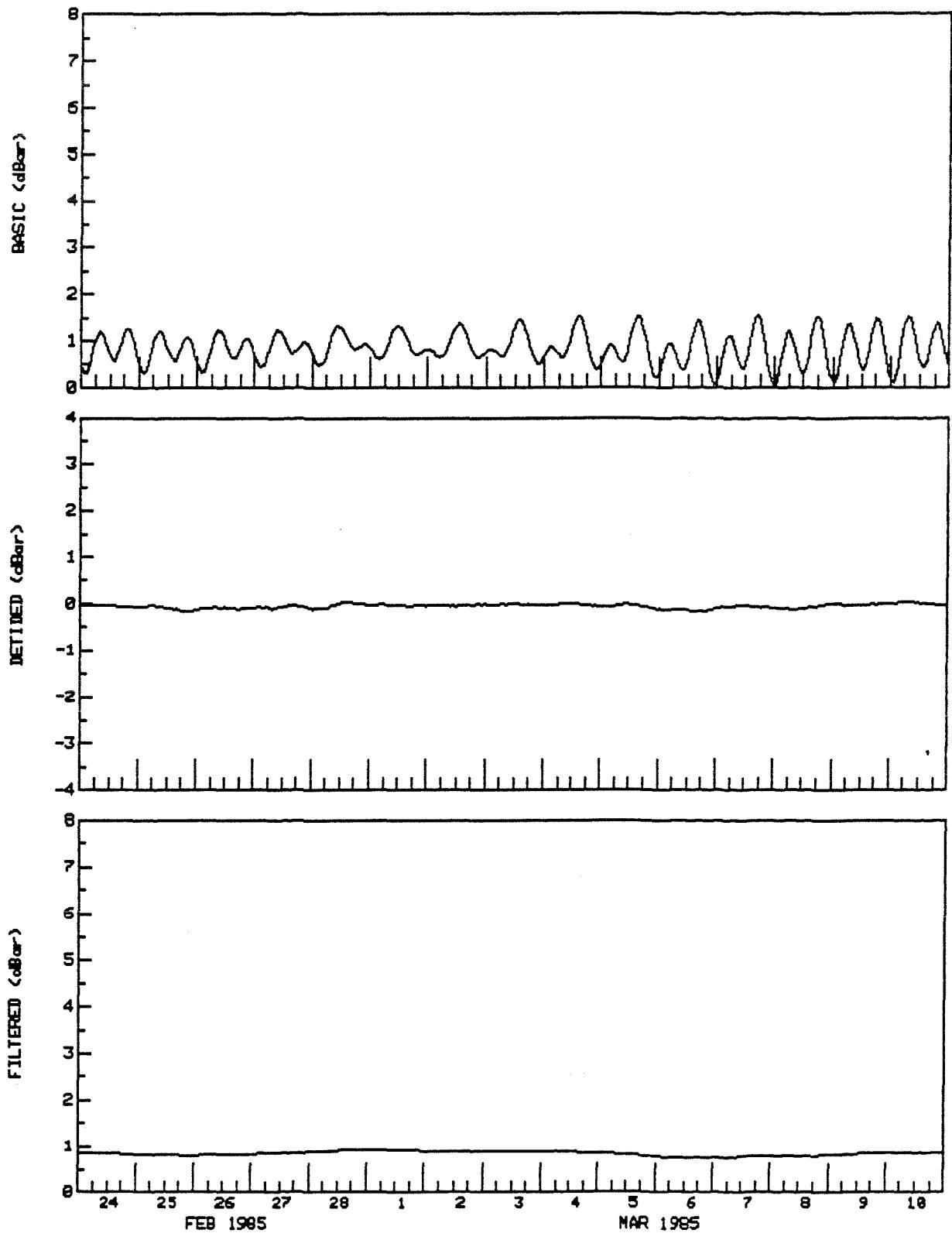
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CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



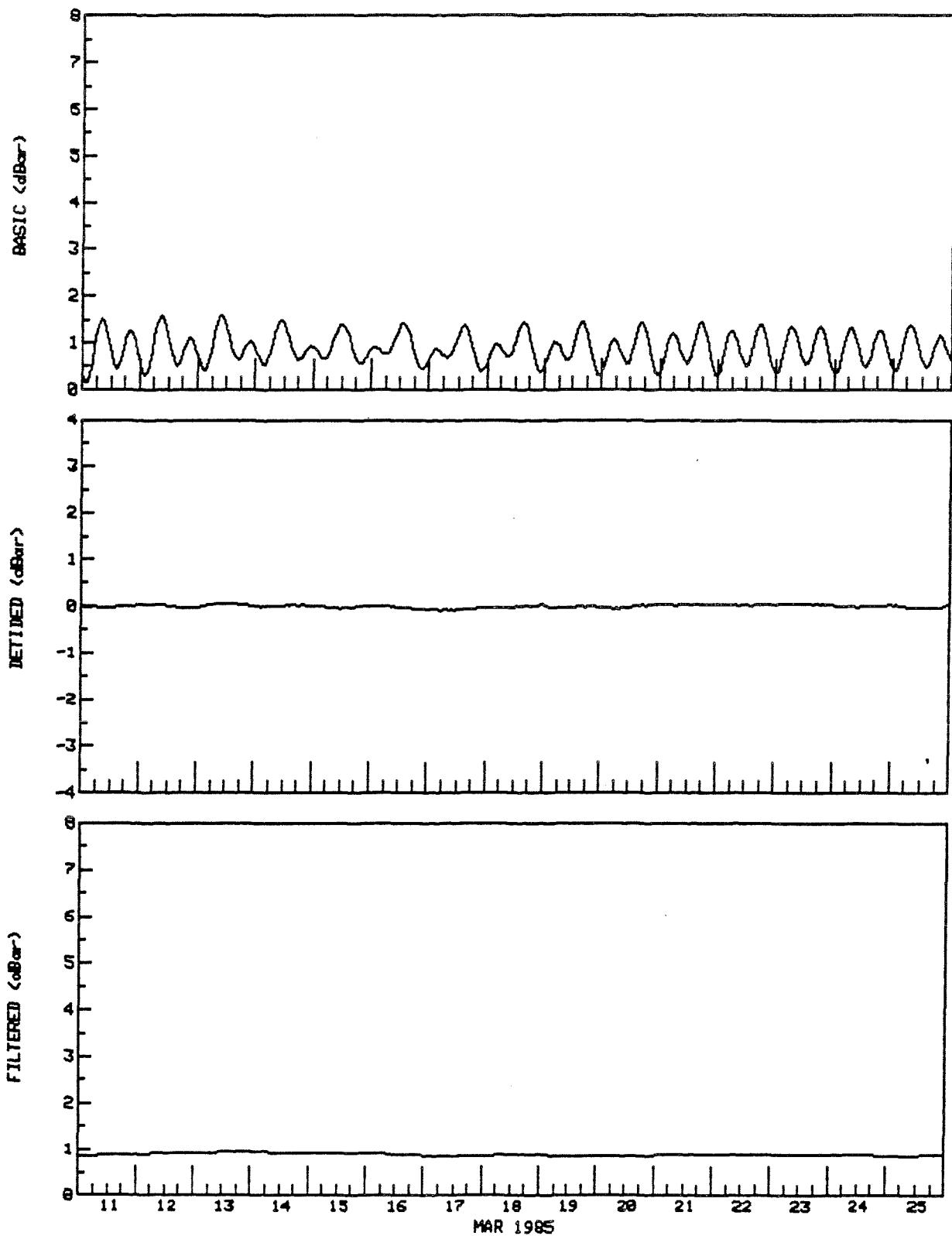
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

CENTRAL BAFFIN BAY
71 46' N 71 41' W

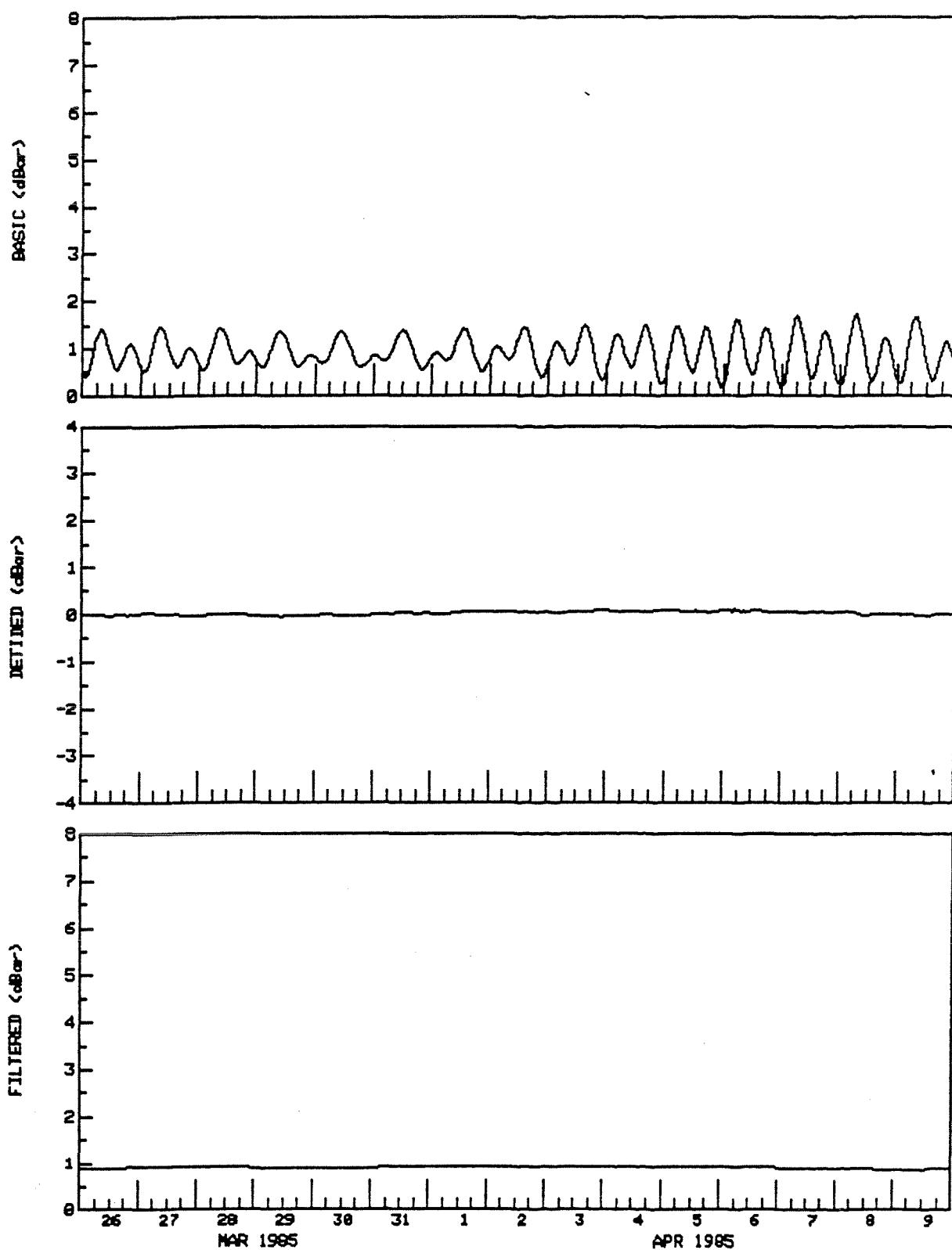
TAPE 341/1

DEPTH(m) 205
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

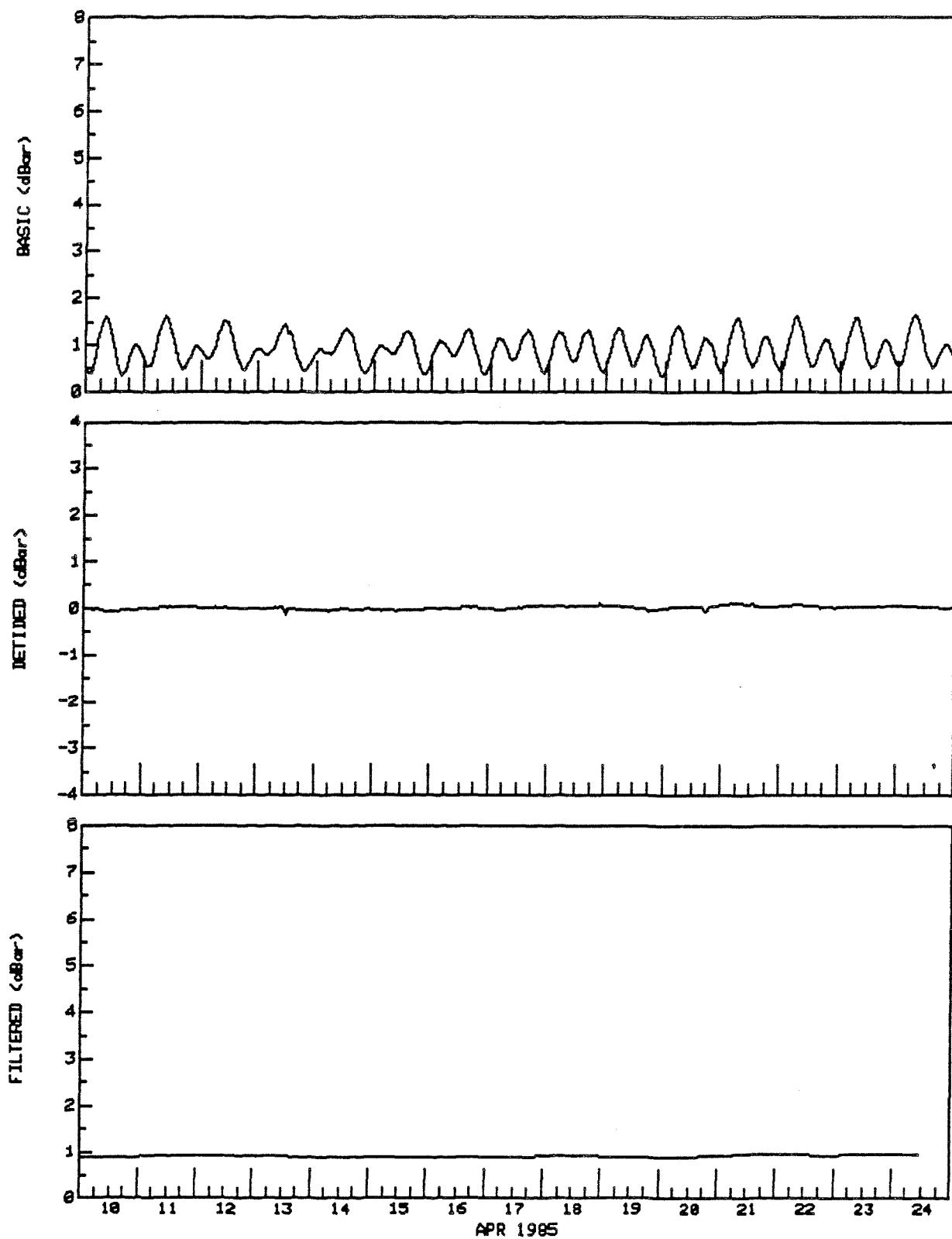
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CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



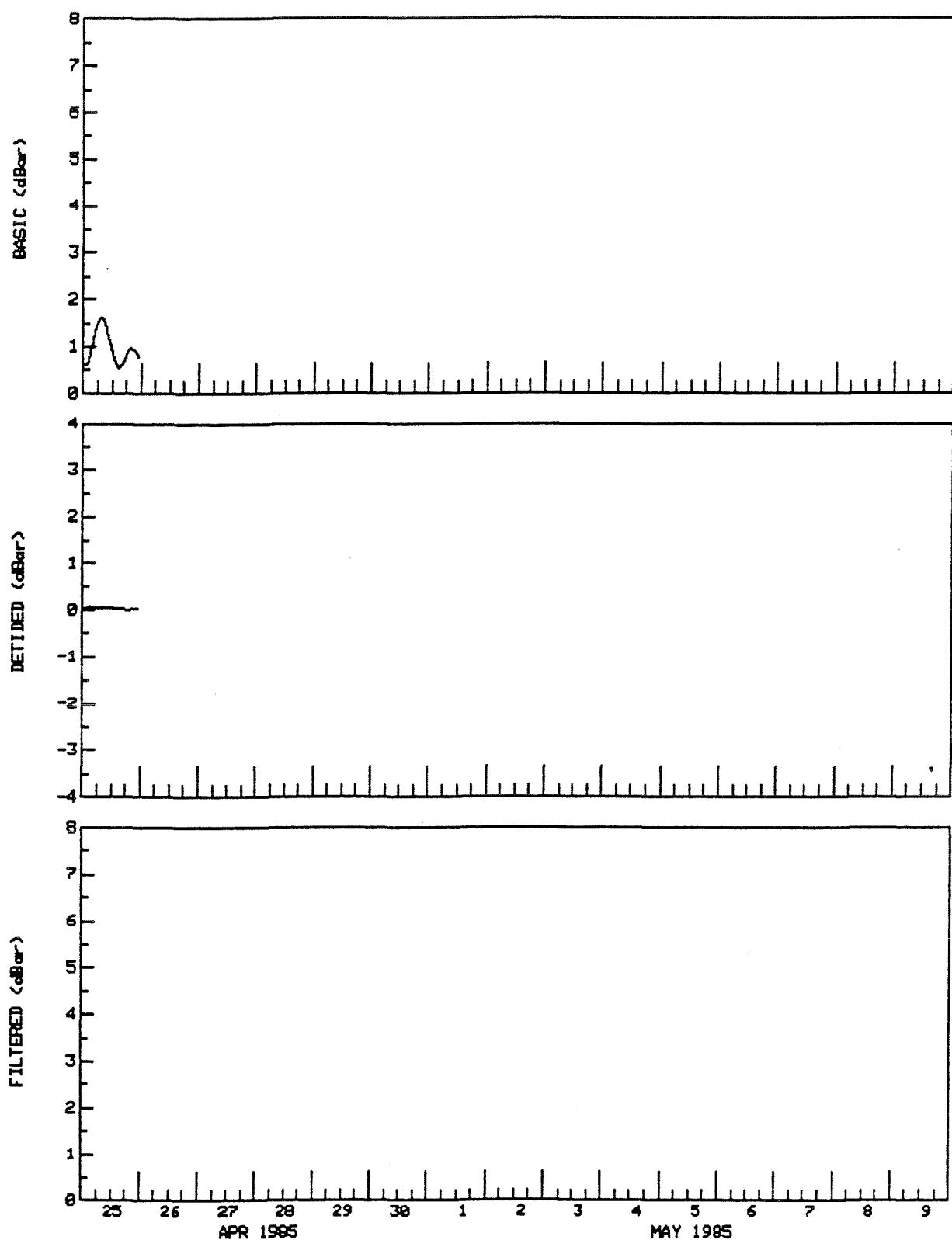
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
CENTRAL BAFFIN BAY TAPE 341/1 DEPTH(m) 205 TYPE DESPIKED
71 46' N 71 41' W AANDERAA WLR5 DT(min) 60



TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # B****TIDE GAUGE # 502**

Site # B: Davis Strait

Position: 68°12'39"N 61°21'31"W

Tide Gauge #: Aandreaa WLRS

Date/Time of Deployment: 1984/10/03 14:06

Date/Time of Recovery: 1985/09/18 16:33

Sampling Interval: 60 minutes

Number of Records on Tape: 9314

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	1.887	1.100	0.335
Detided Pressure	-0.268	0.438	-0.003	0.115
Filtered Pressure	0.756	1.622	1.100	0.124

Data Quality: Several spikes in both temperature and pressure signals.

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS OF HOURLY TIDAL HEIGHTS

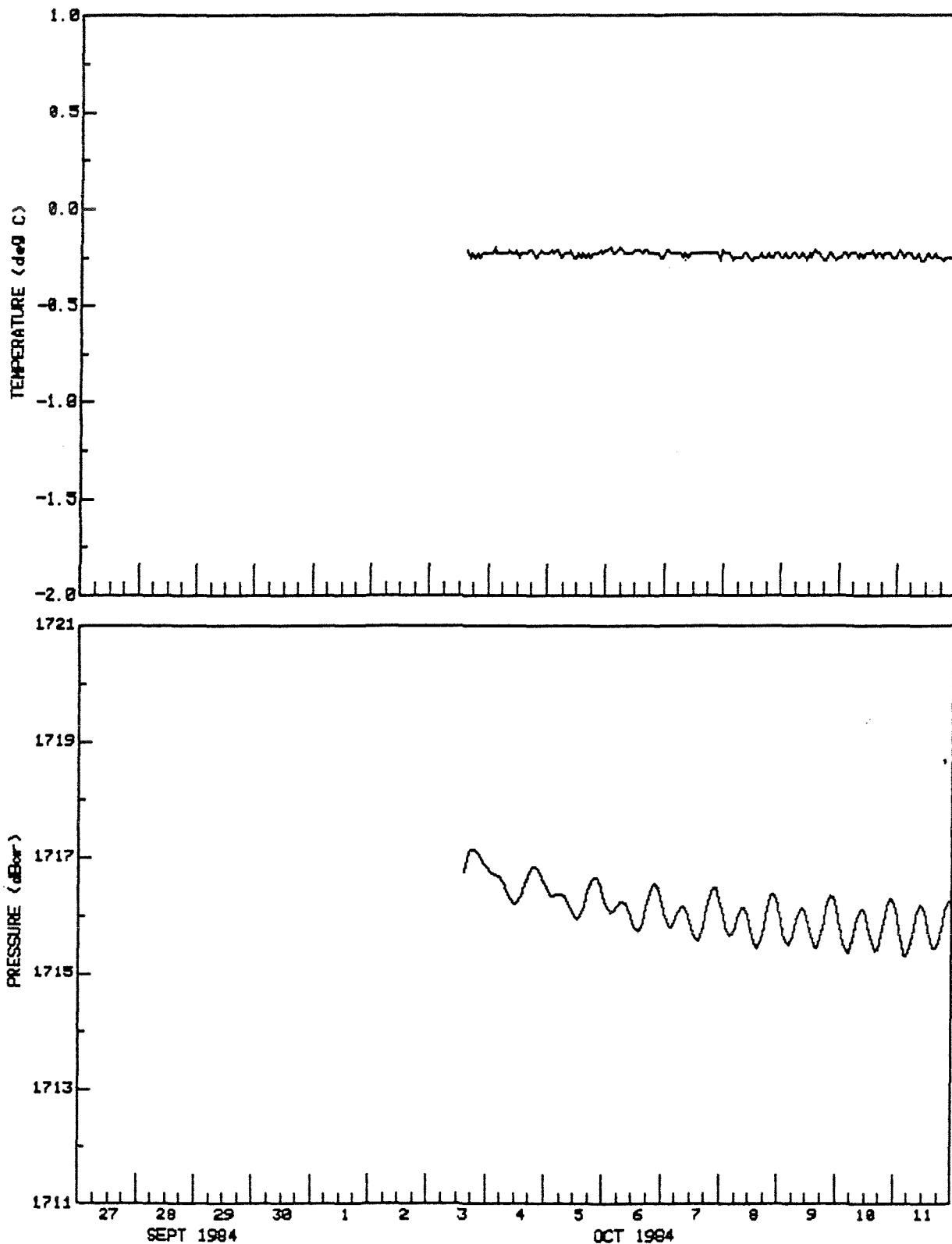
STN: DAVIS STRAIT LAT: 68 12 39.0 N
 DEPTH: 1716 M LONG: 61 21 13.0 W
 START: 1500Z 3/10/84 END: 2300Z 18/ 9/85
 NO.OBS.= 8409 NO.PTS.ANAL.= 8409 MIDPT: 1900Z 27/ 3/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	ZO	0.00000000	1.0959	0.00
2	SSA	0.00022816	0.0580	281.66
3	MSM	0.00130978	0.0238	138.90
4	MM	0.00151215	0.0191	181.99
5	MSF	0.00282193	0.0193	202.60
6	MF	0.00305009	0.0328	235.10
7	ALP1	0.03439657	0.0016	288.28
8	2Q1	0.03570635	0.0020	281.96
9	SIG1	0.03590872	0.0026	329.66
10	Q1	0.03721850	0.0020	103.12
11	RHO1	0.03742087	0.0018	94.52
12	O1	0.03873065	0.0760	189.42
13	TAU1	0.03895881	0.0008	198.42
14	BET1	0.04004044	0.0011	124.32
15	N01	0.04026860	0.0105	200.53
16	CHI1	0.04047097	0.0016	213.10
17	P1	0.04155259	0.0714	237.20
18	K1	0.04178075	0.2344	241.53
19	PHI1	0.04200891	0.0014	234.36
20	THE1	0.04309053	0.0027	268.64
21	J1	0.04329290	0.0119	260.16
22	S01	0.04460268	0.0012	30.47
23	001	0.04483084	0.0053	268.01
24	UPS1	0.04634299	0.0015	261.97
25	OQ2	0.07597494	0.0005	152.32
26	EPS2	0.07617730	0.0009	161.52
27	ZN2	0.07748711	0.0079	212.38
28	MU2	0.07768947	0.0077	219.63
29	N2	0.07899922	0.0562	261.66
30	NU2	0.07920164	0.0113	263.20
31	M2	0.08051139	0.3055	288.85
32	MKS2	0.08073956	0.0008	231.71
33	LDA2	0.08182120	0.0020	277.90
34	L2	0.08202356	0.0080	308.31
35	S2	0.08333331	0.1370	332.76
36	K2	0.08356148	0.0386	331.23
37	MSN2	0.08484548	0.0009	342.48
38	ETA2	0.08507365	0.0023	14.65
39	M03	0.11924207	0.0022	7.67
40	M3	0.12076712	0.0020	70.73
41	S03	0.12206399	0.0016	68.88
42	MK3	0.12229216	0.0019	70.05
43	SK3	0.12511408	0.0017	350.45
44	MN4	0.15951067	0.0002	143.11
45	M4	0.16102278	0.0013	265.24
46	SN4	0.16233259	0.0004	325.58
47	MS4	0.16384470	0.0011	359.10
48	MK4	0.16407287	0.0006	30.94
49	S4	0.16666669	0.0002	106.15
50	SK4	0.16689485	0.0002	299.21
51	2MK5	0.20280355	0.0003	232.43
52	2SK5	0.20844740	0.0001	109.67
53	2MN6	0.24002206	0.0014	192.49
54	M6	0.24153417	0.0025	229.24
55	2MS6	0.24435616	0.0021	307.83
56	2MK6	0.24458432	0.0009	303.62
57	2SM6	0.24717808	0.0004	65.65
58	MSK6	0.24740624	0.0005	59.77
59	3MK7	0.28331494	0.0001	118.17
60	M8	0.32204562	0.0002	347.73

TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

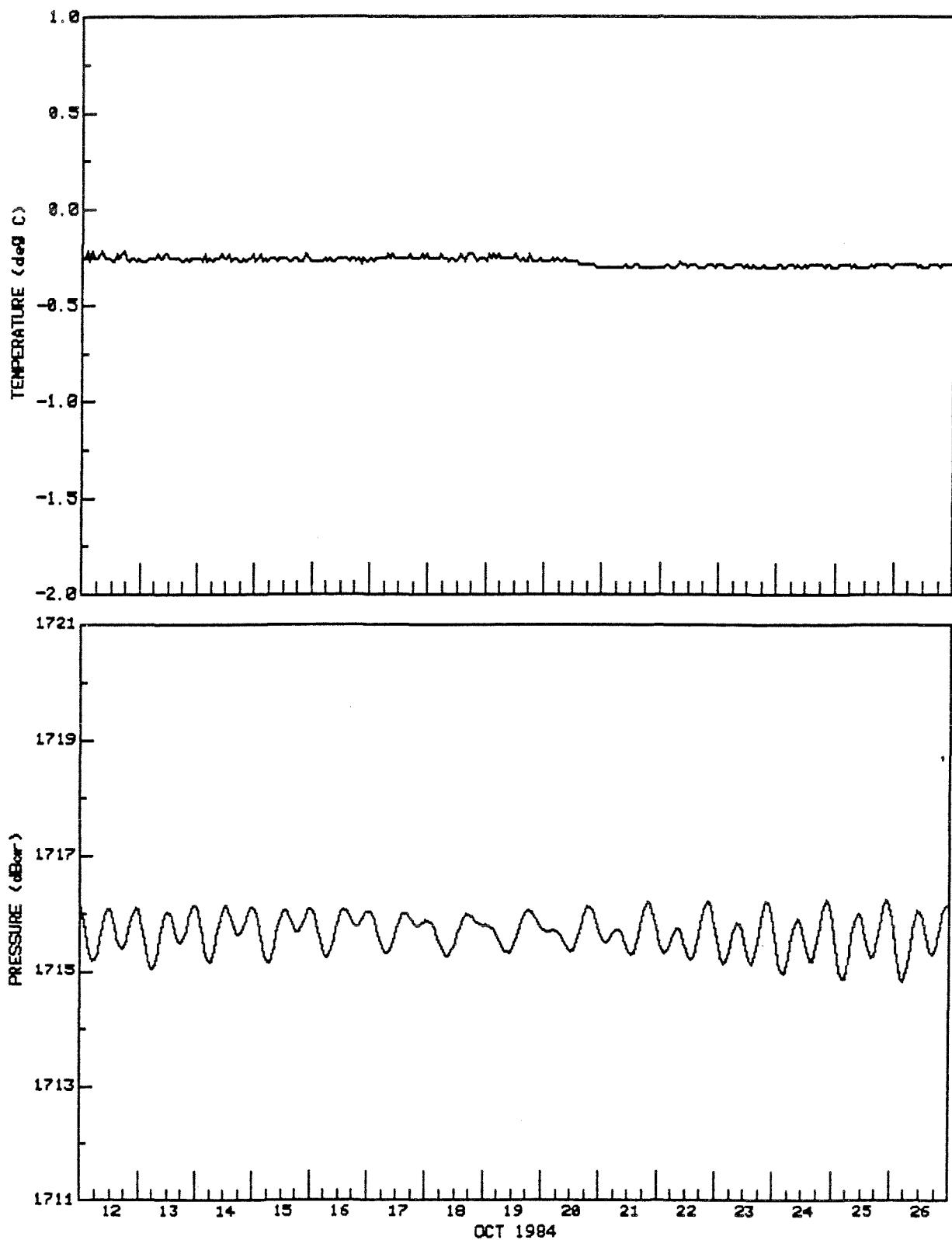
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DEPTH(m) 1716
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

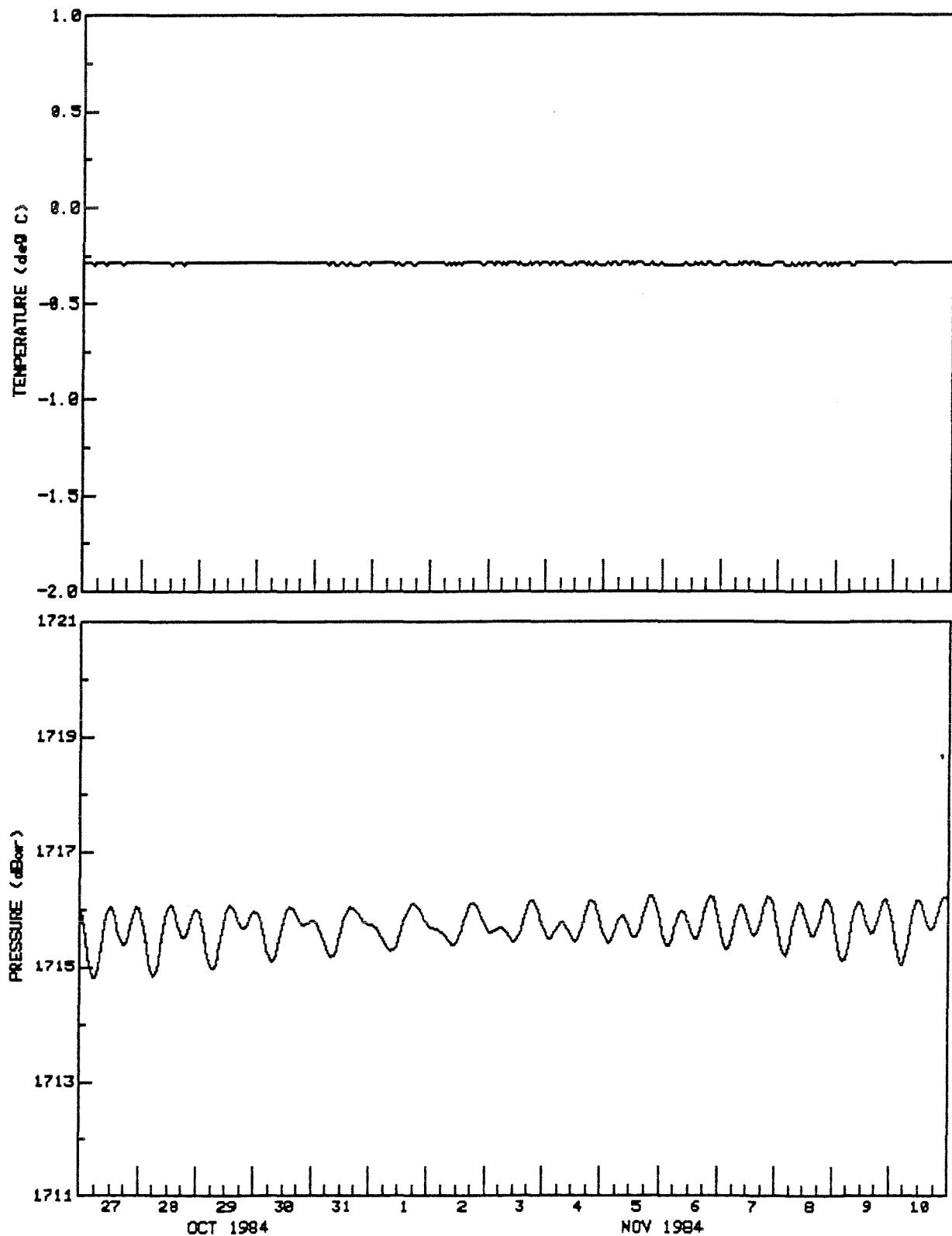
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DEPTH(m) 1716
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

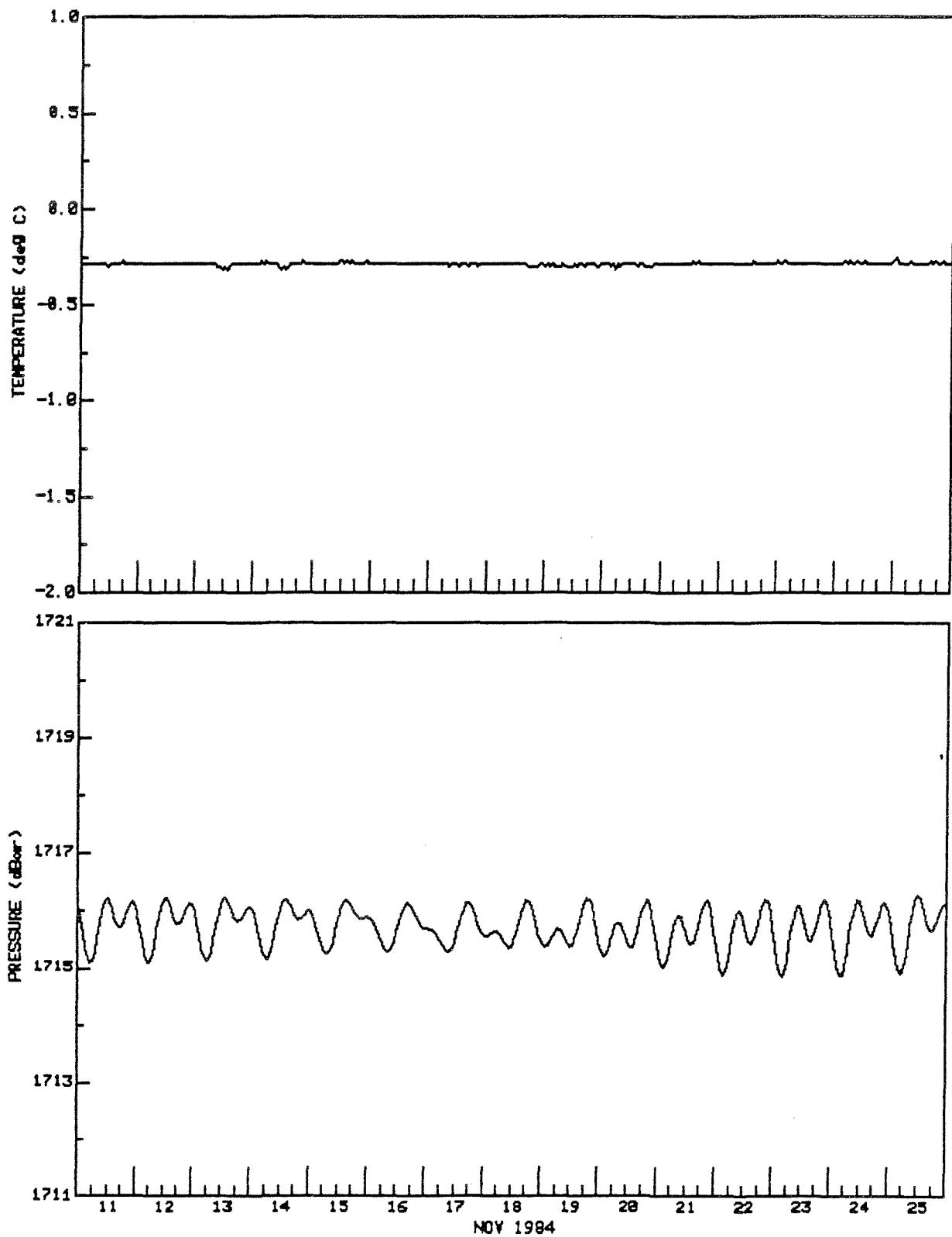
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TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N

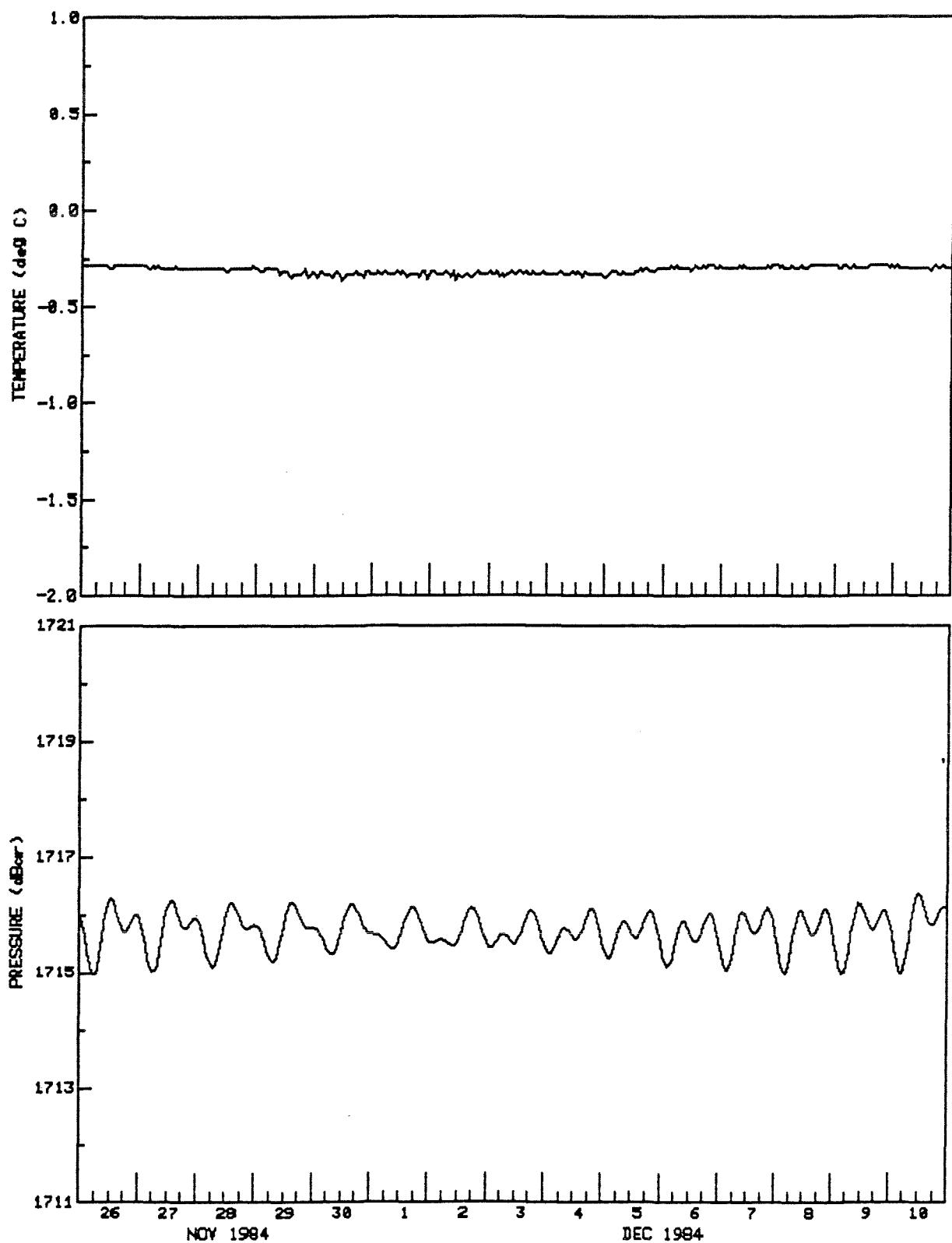
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TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
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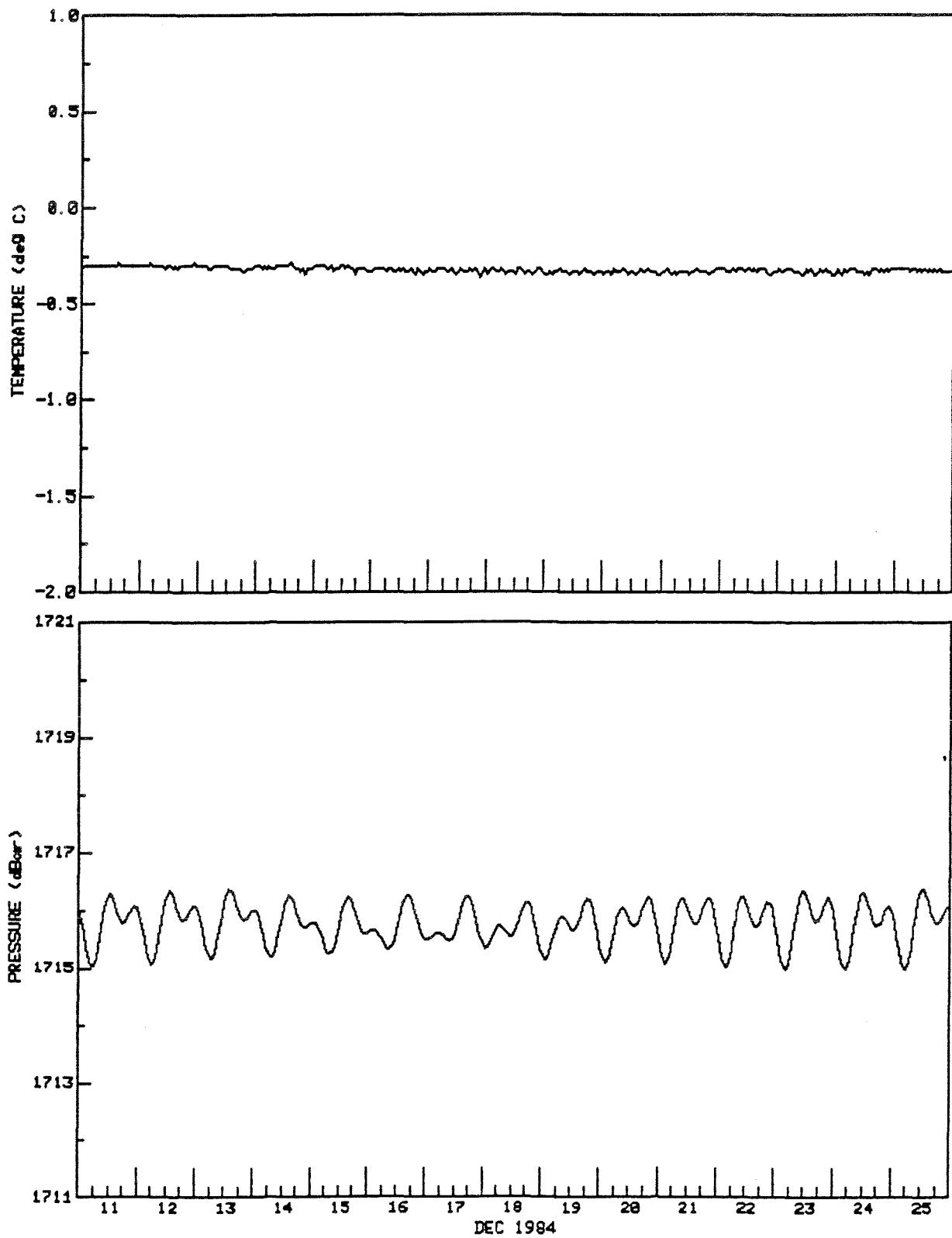
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TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
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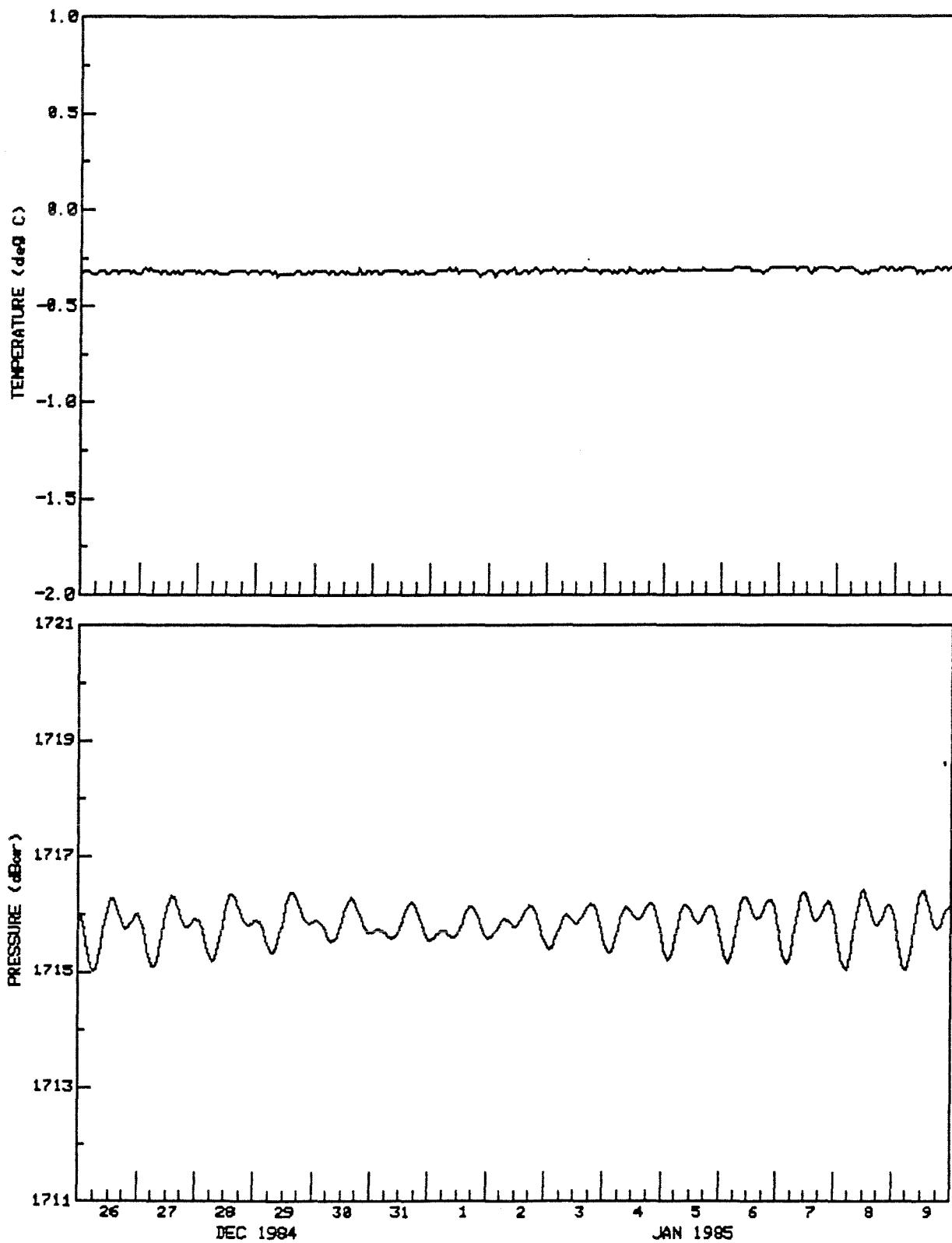
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TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
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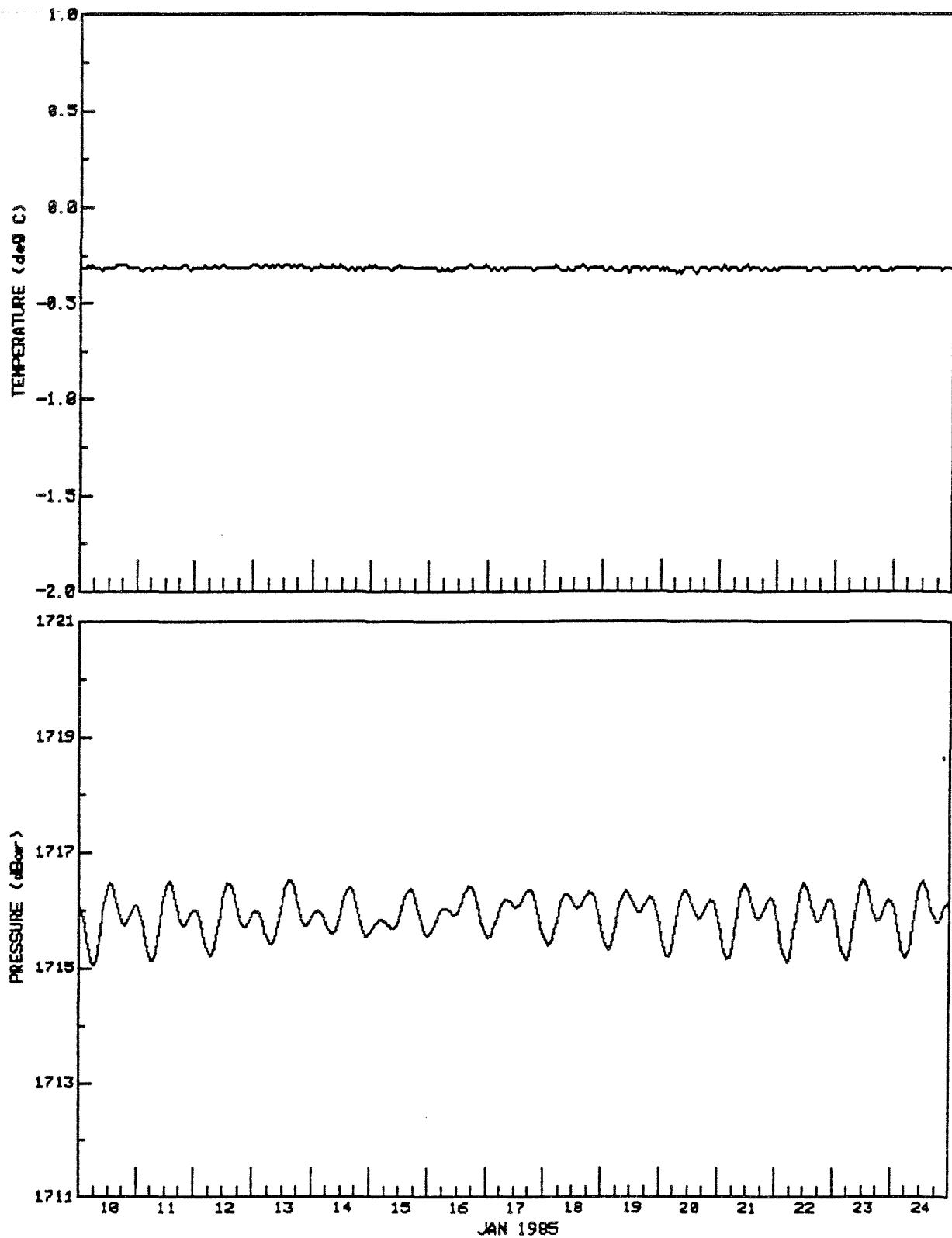
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TIME SERIES OF TEMPERATURE AND PRESSURE

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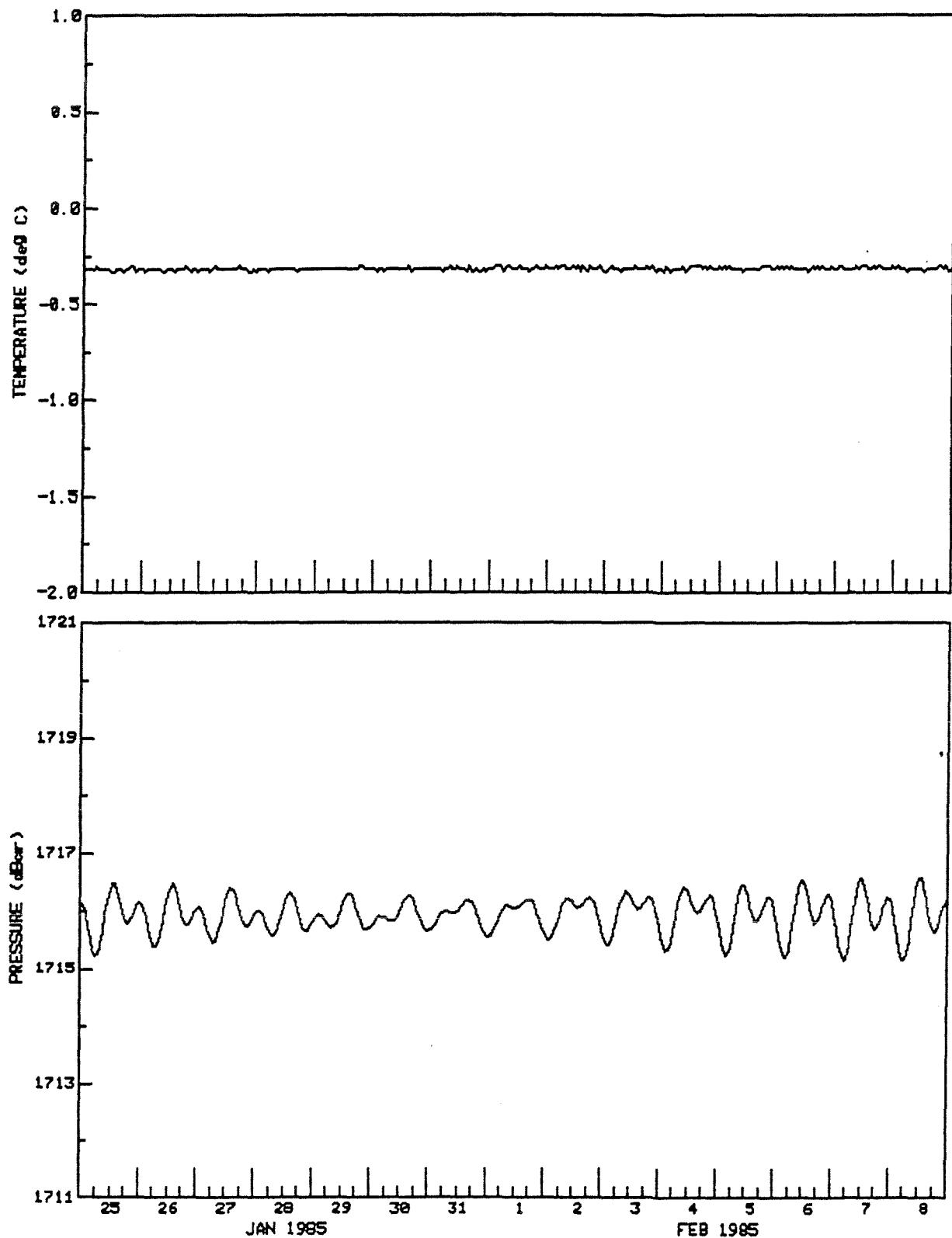
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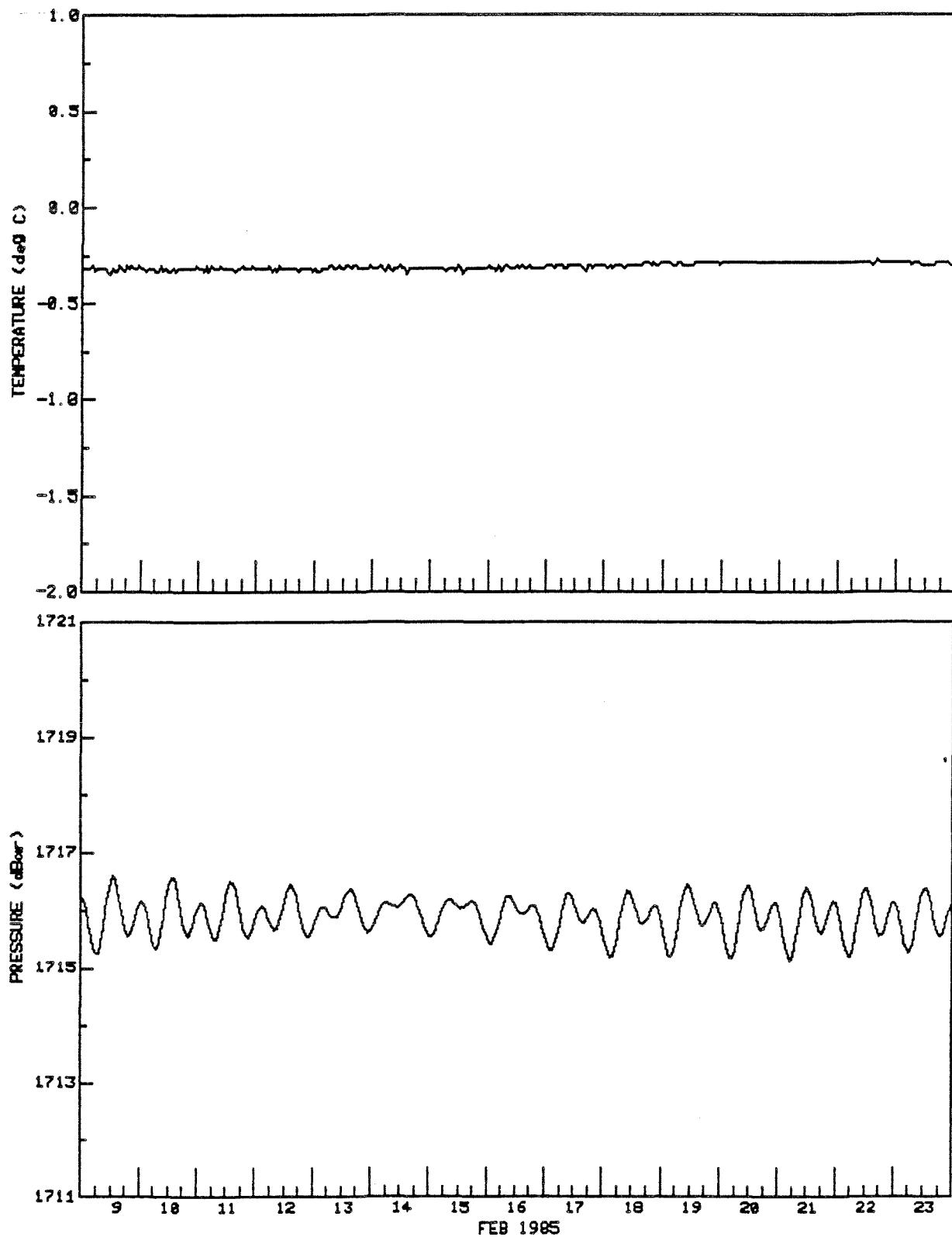
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TIME SERIES OF TEMPERATURE AND PRESSURE

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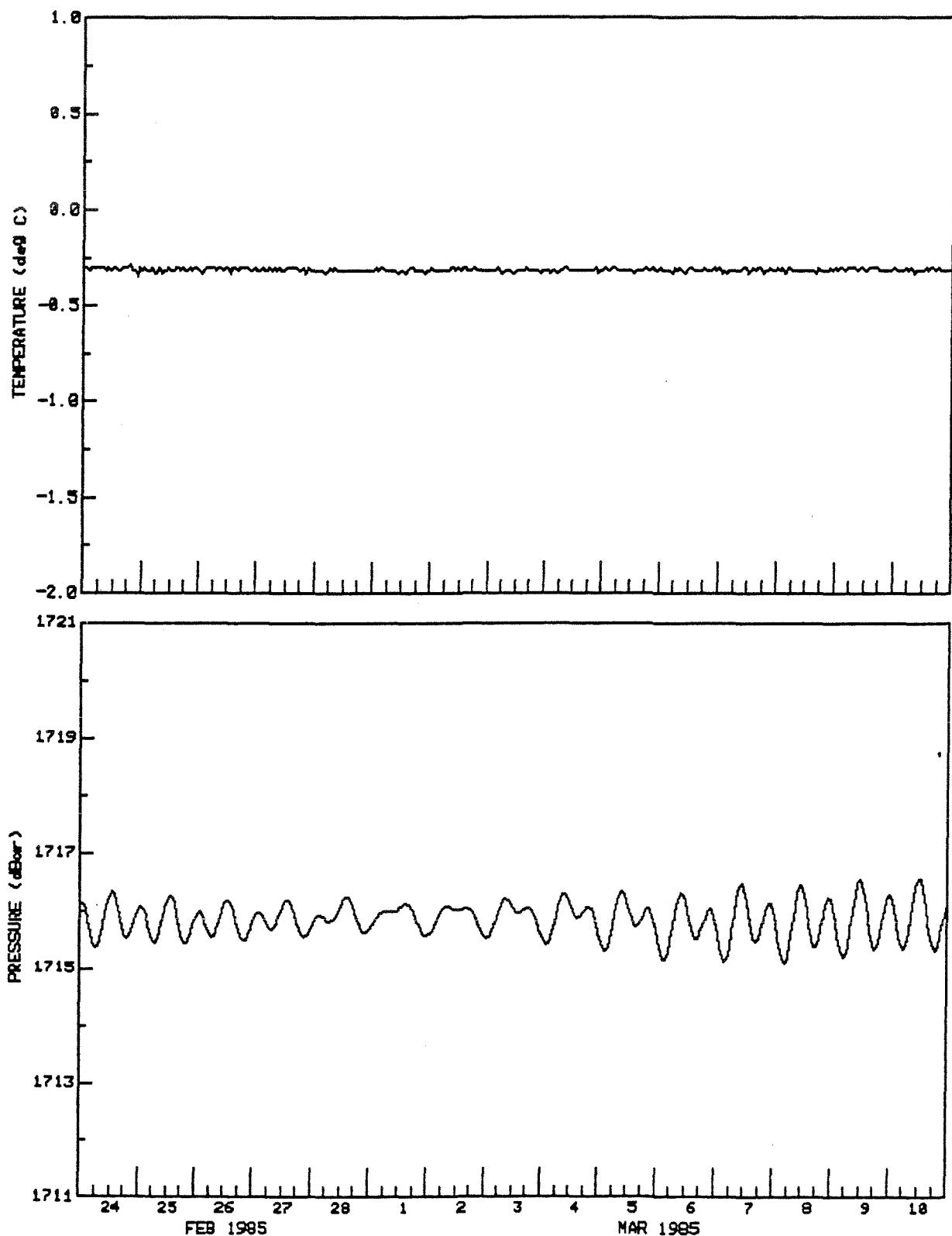
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N

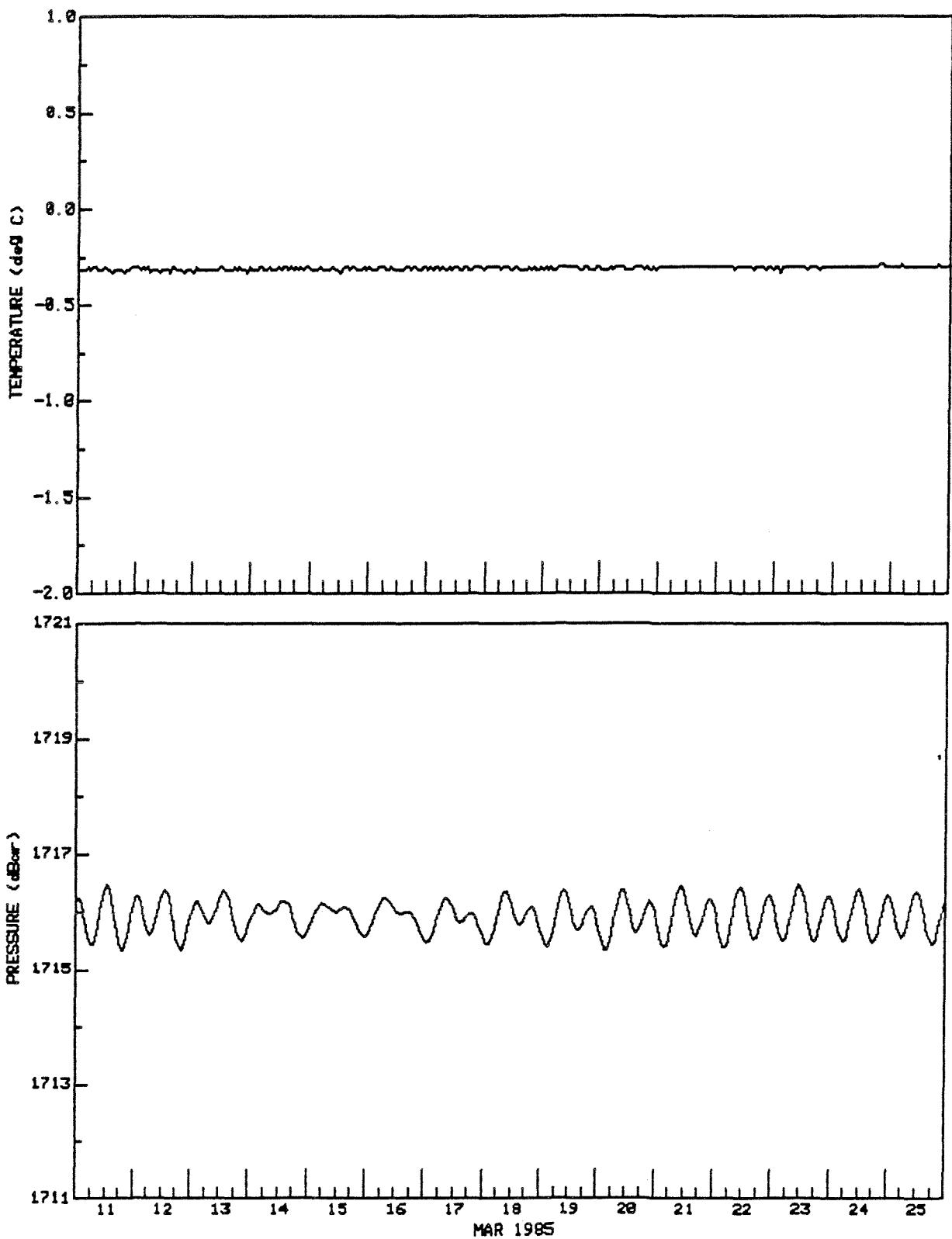
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

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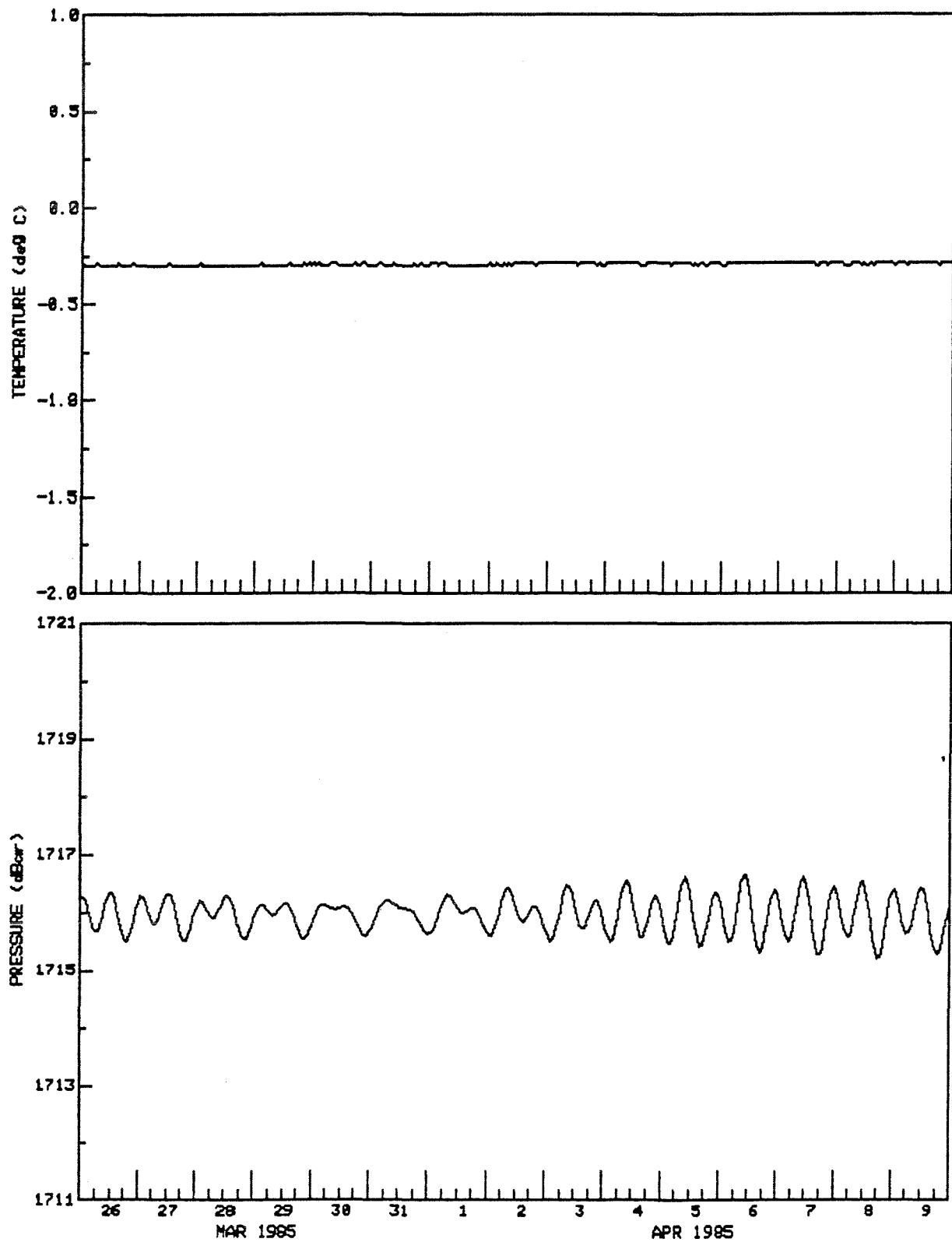
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TIME SERIES OF TEMPERATURE AND PRESSURE

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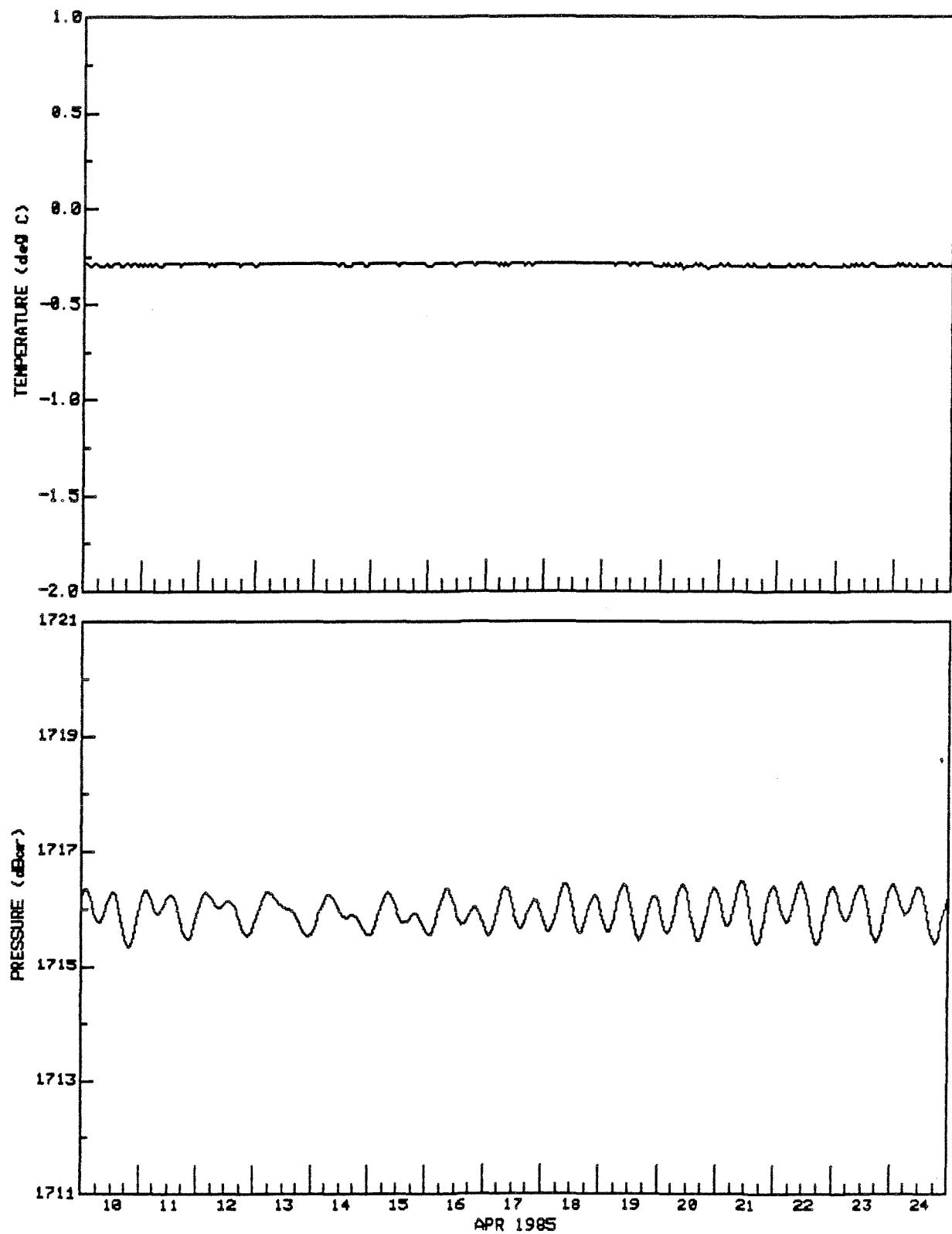
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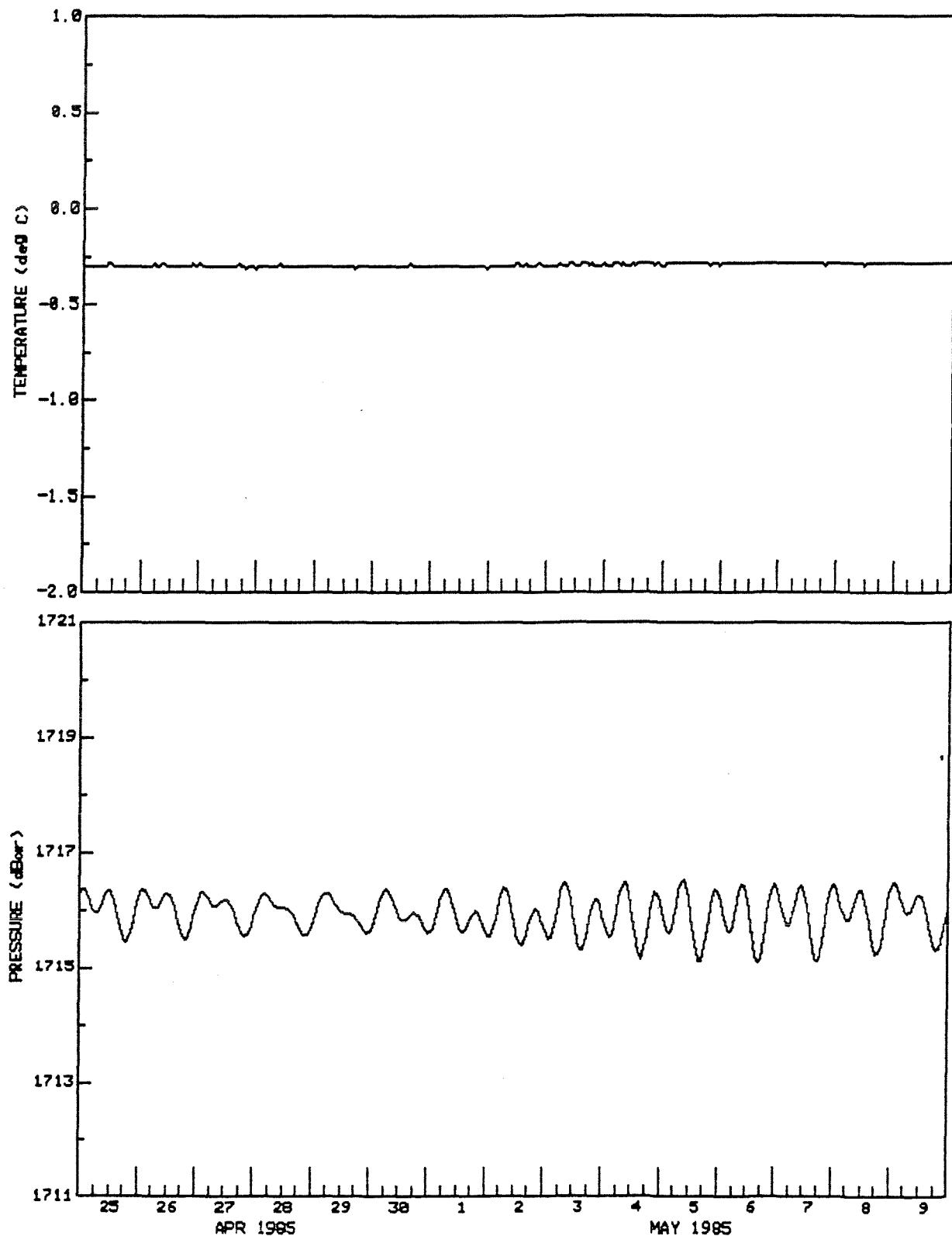
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N

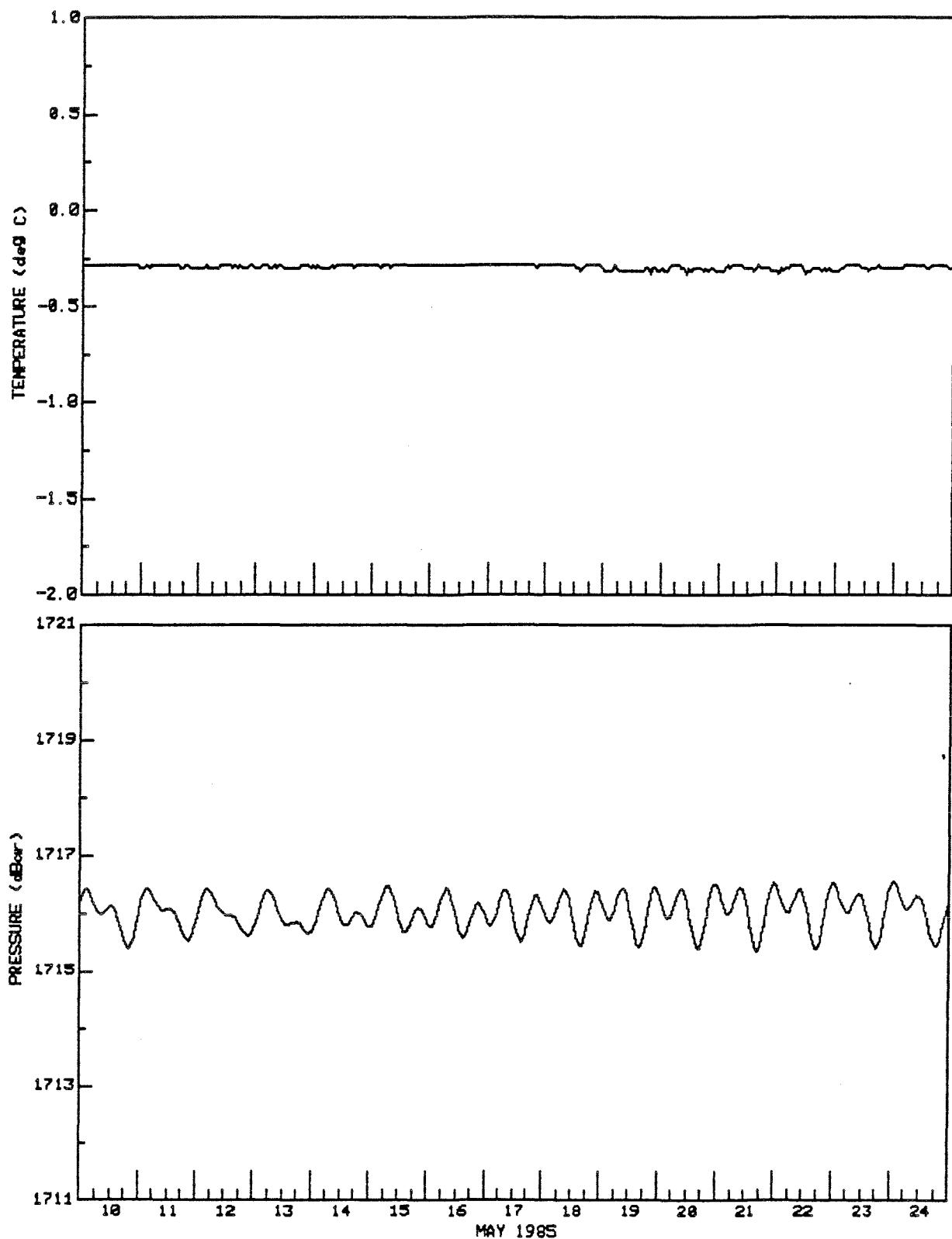
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

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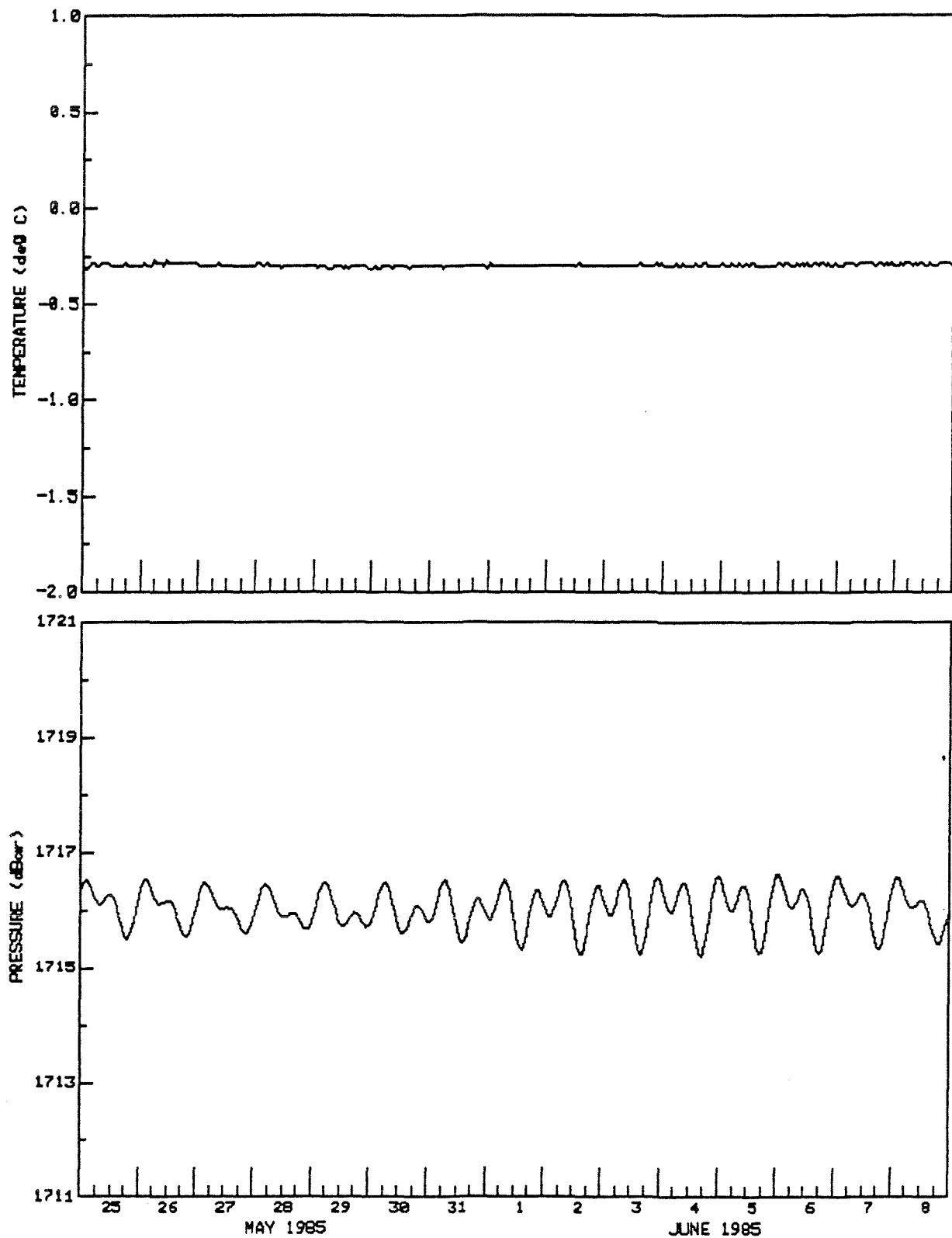
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

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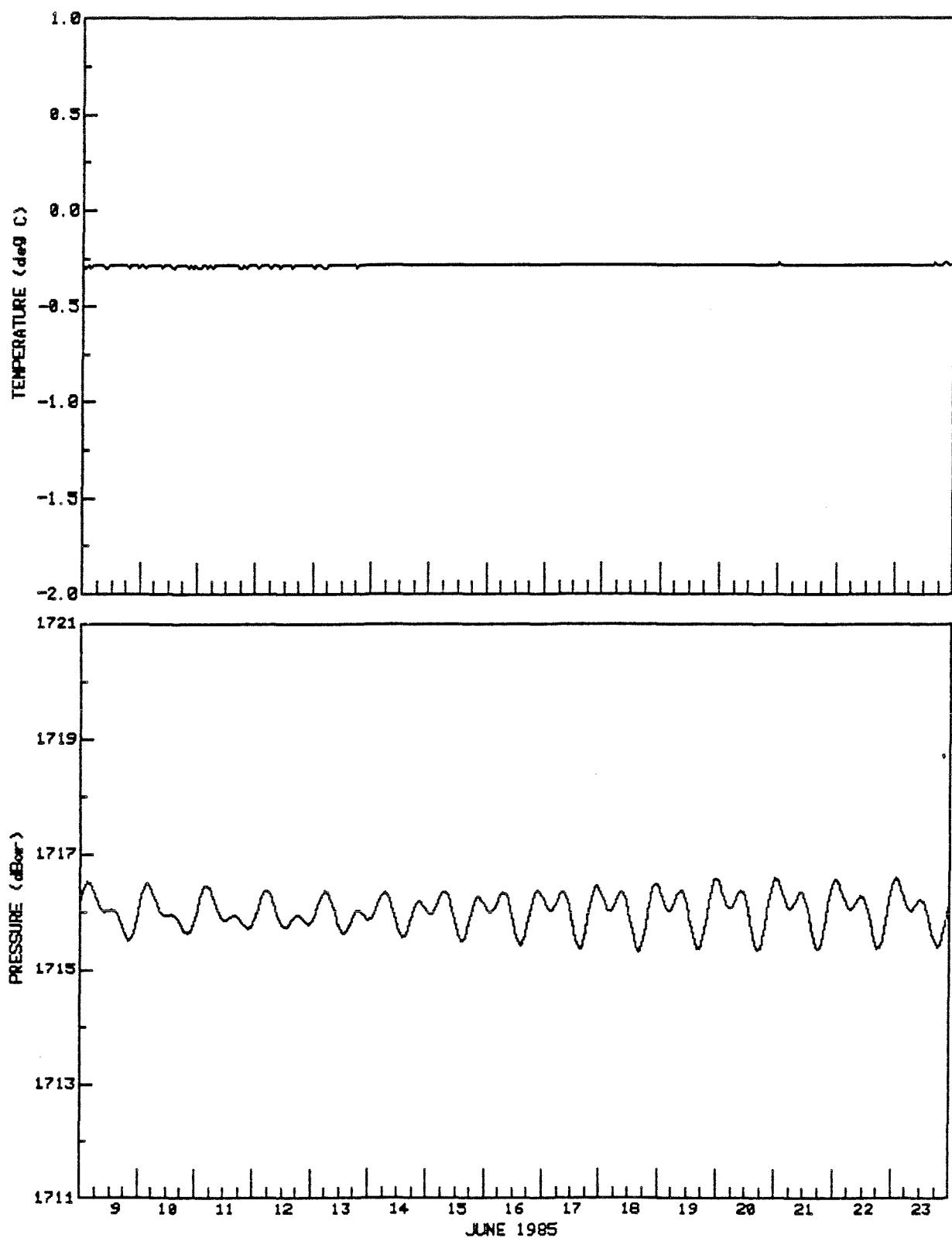
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TIME SERIES OF TEMPERATURE AND PRESSURE

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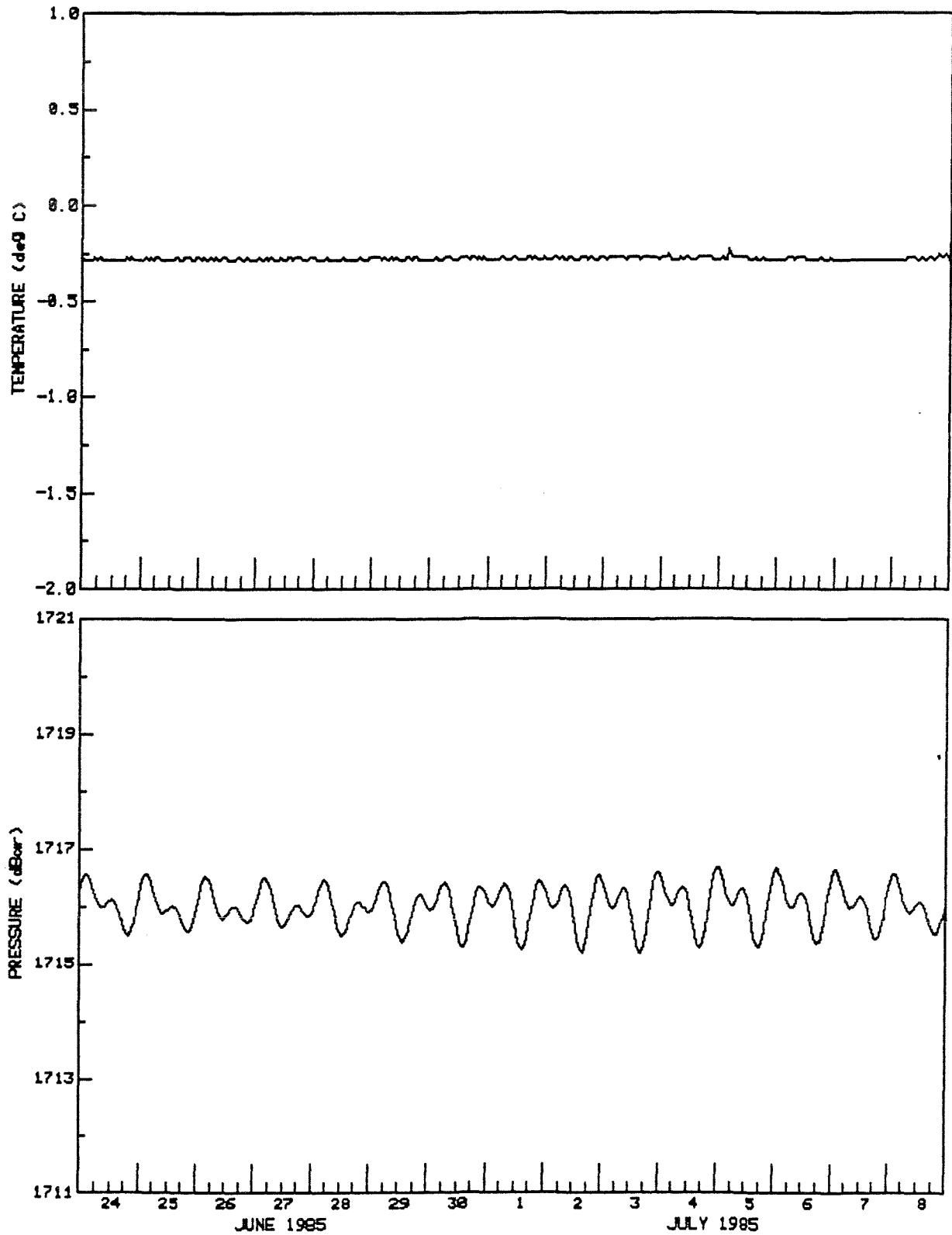
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TIME SERIES OF TEMPERATURE AND PRESSURE

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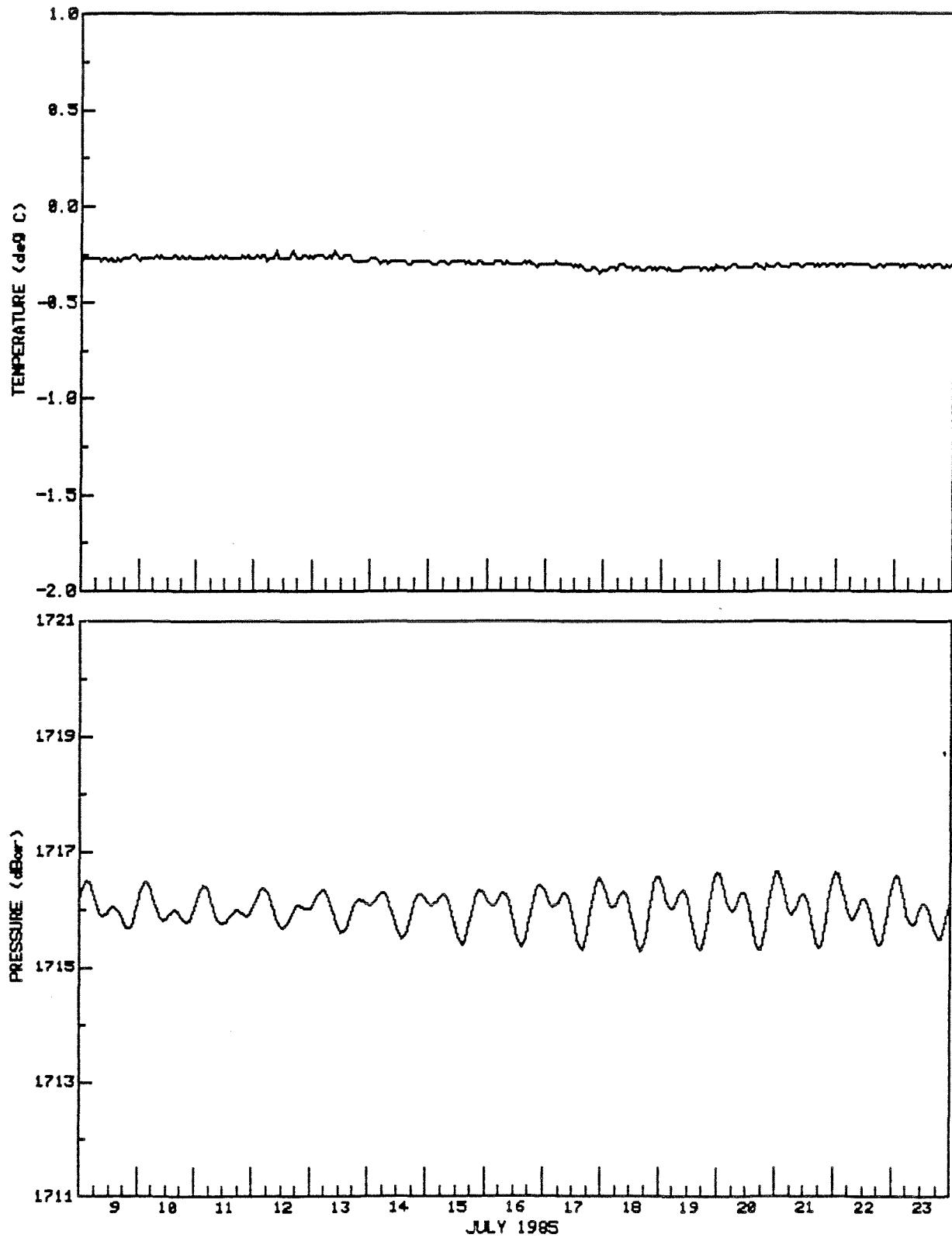
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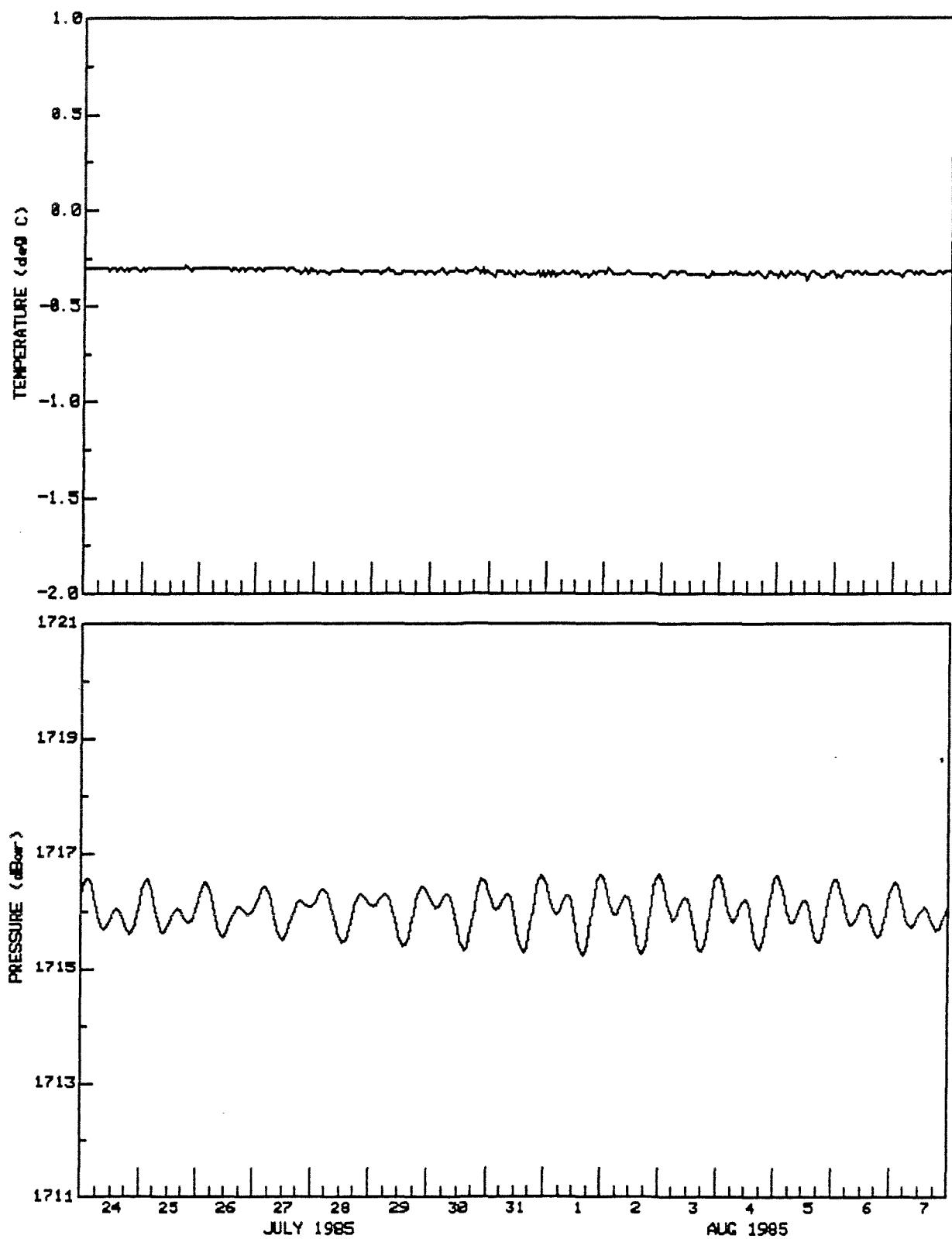
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

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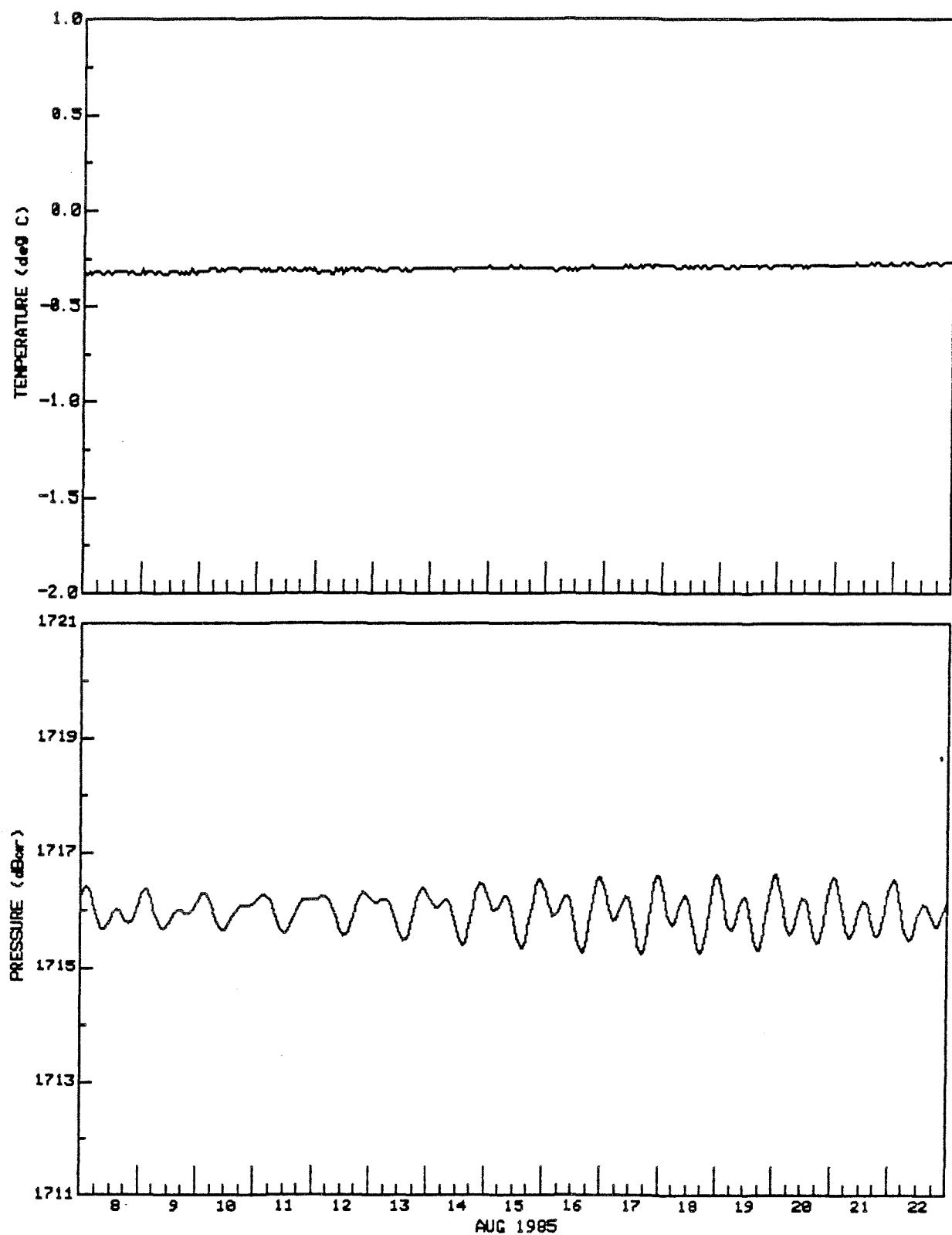
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DEPTH(m) 1716
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

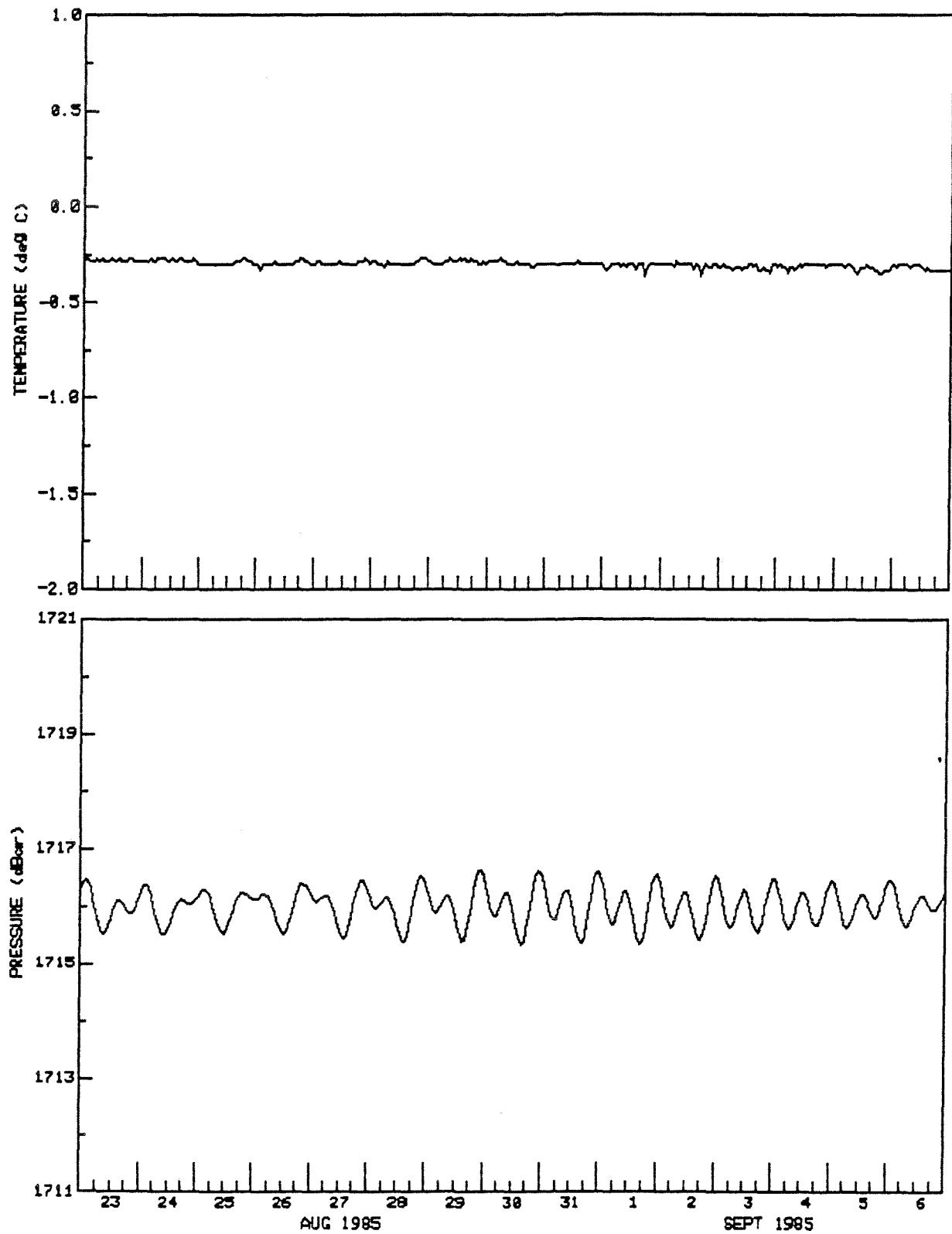
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

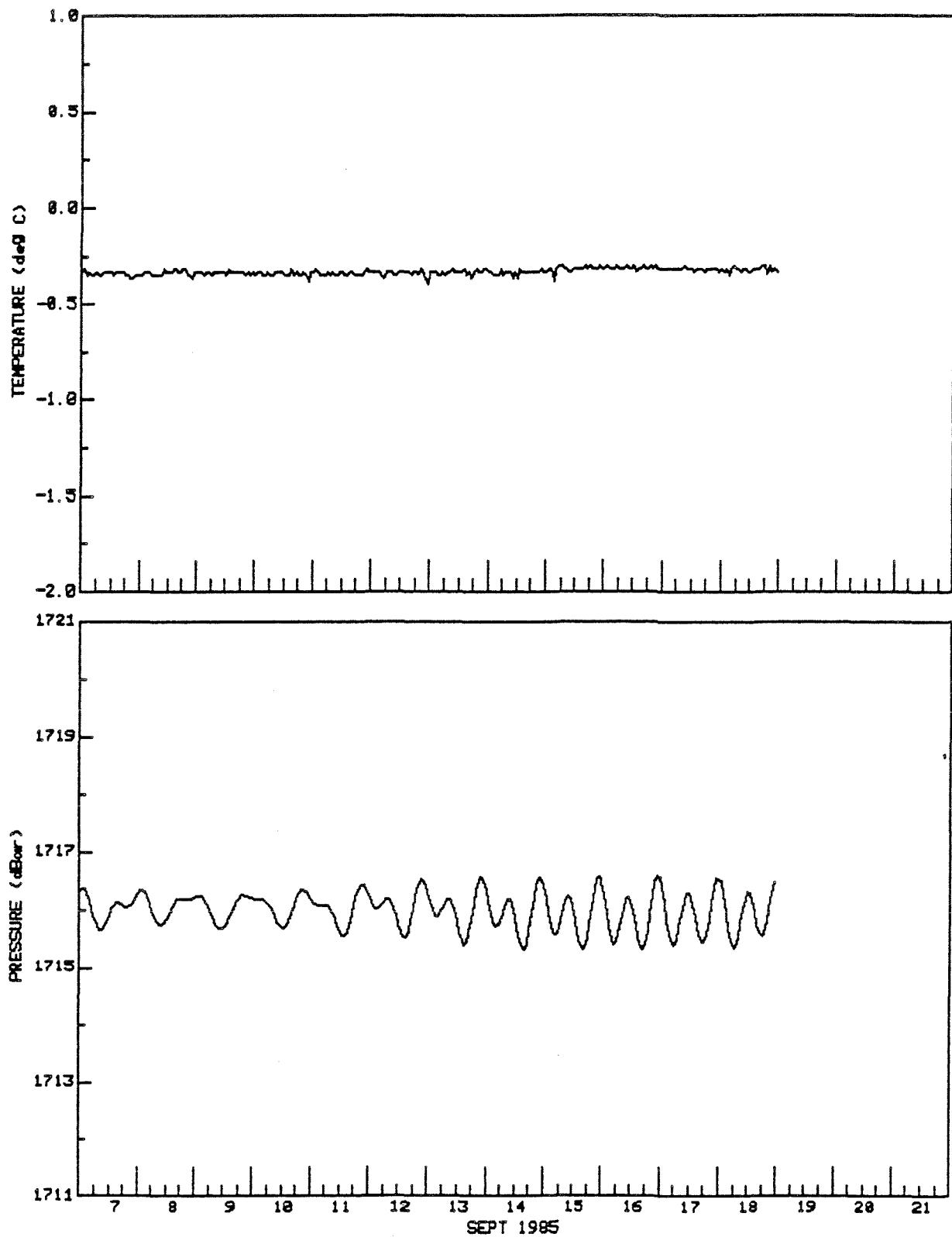
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DT(min) 60

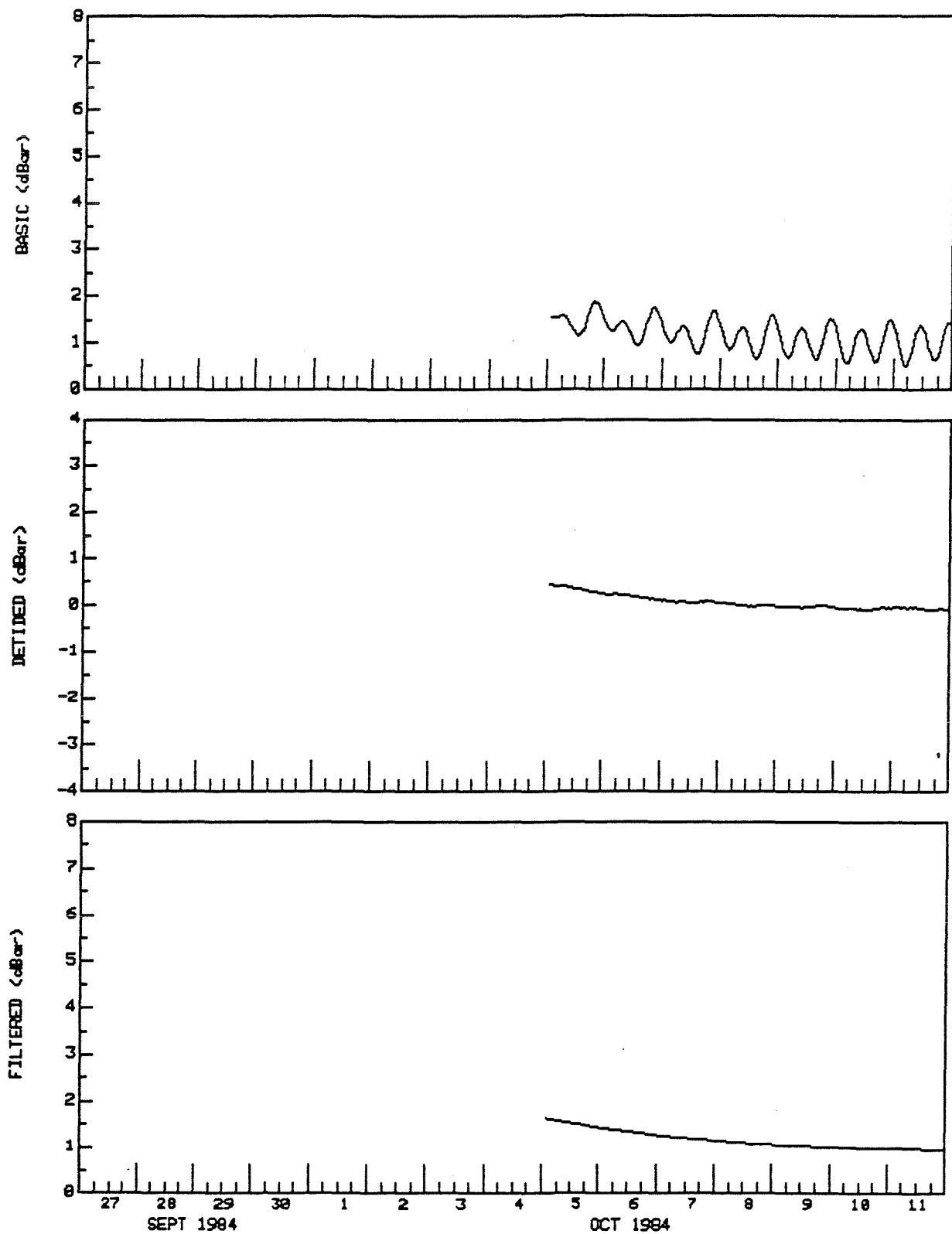
TIME SERIES OF TEMPERATURE AND PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

TAPE 502/1

DEPTH(m) 1716
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DT(min) 60

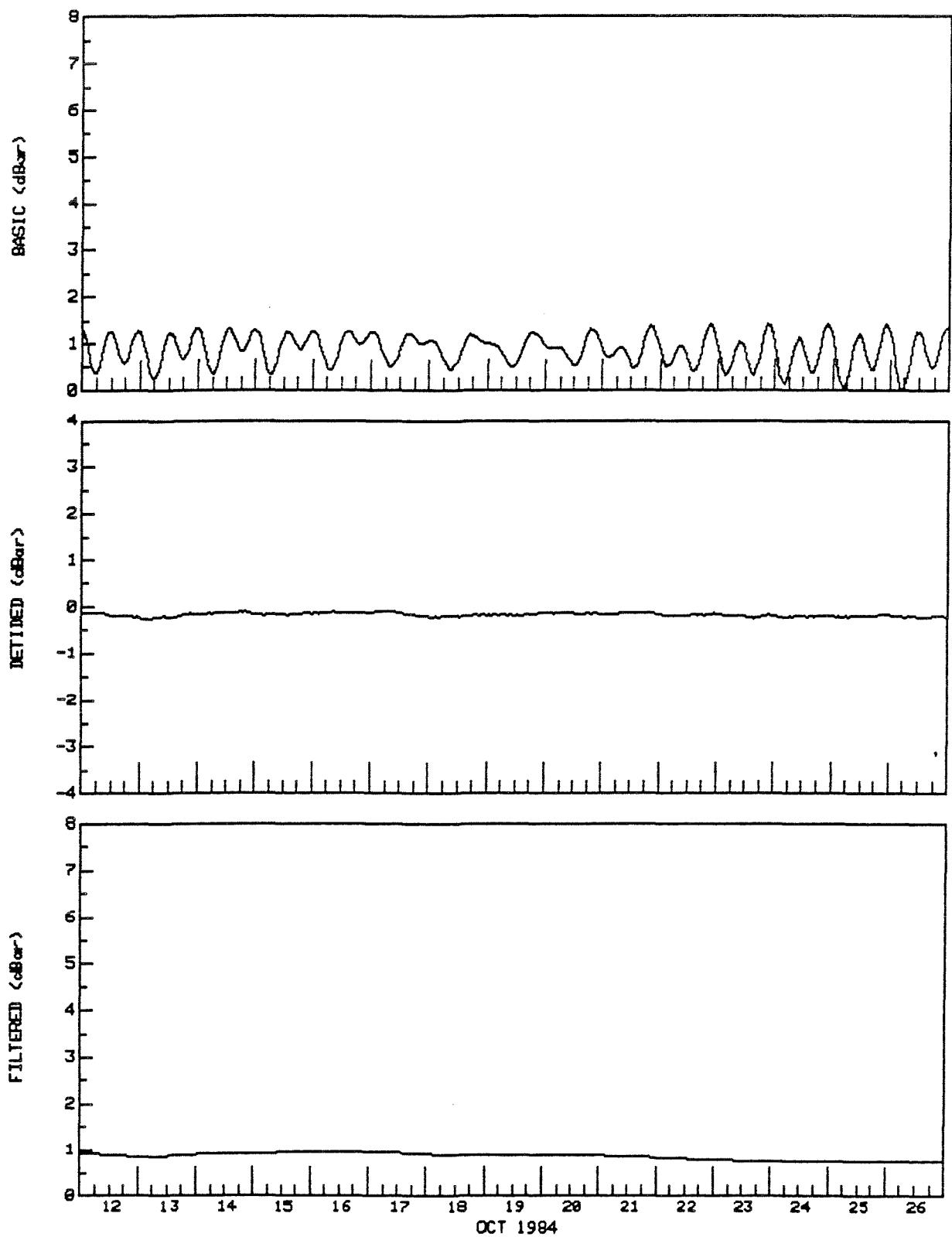
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
DAVIS STRAIT TAPE 502/1 DEPTH(m) 1716 TYPE DESPIKED
68 13' N 61 21' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

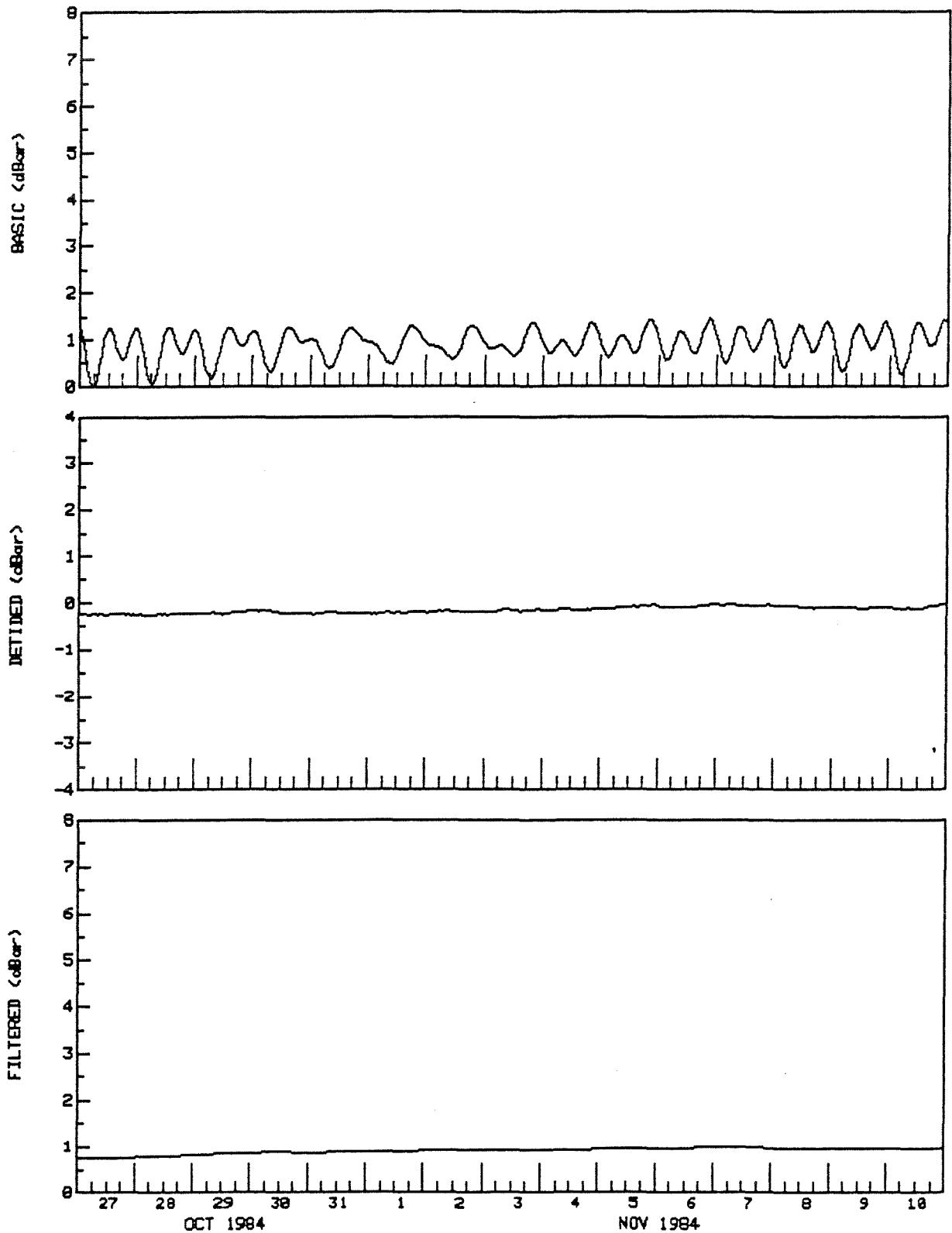
TAPE 502/1

DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N

TAPE 502/1

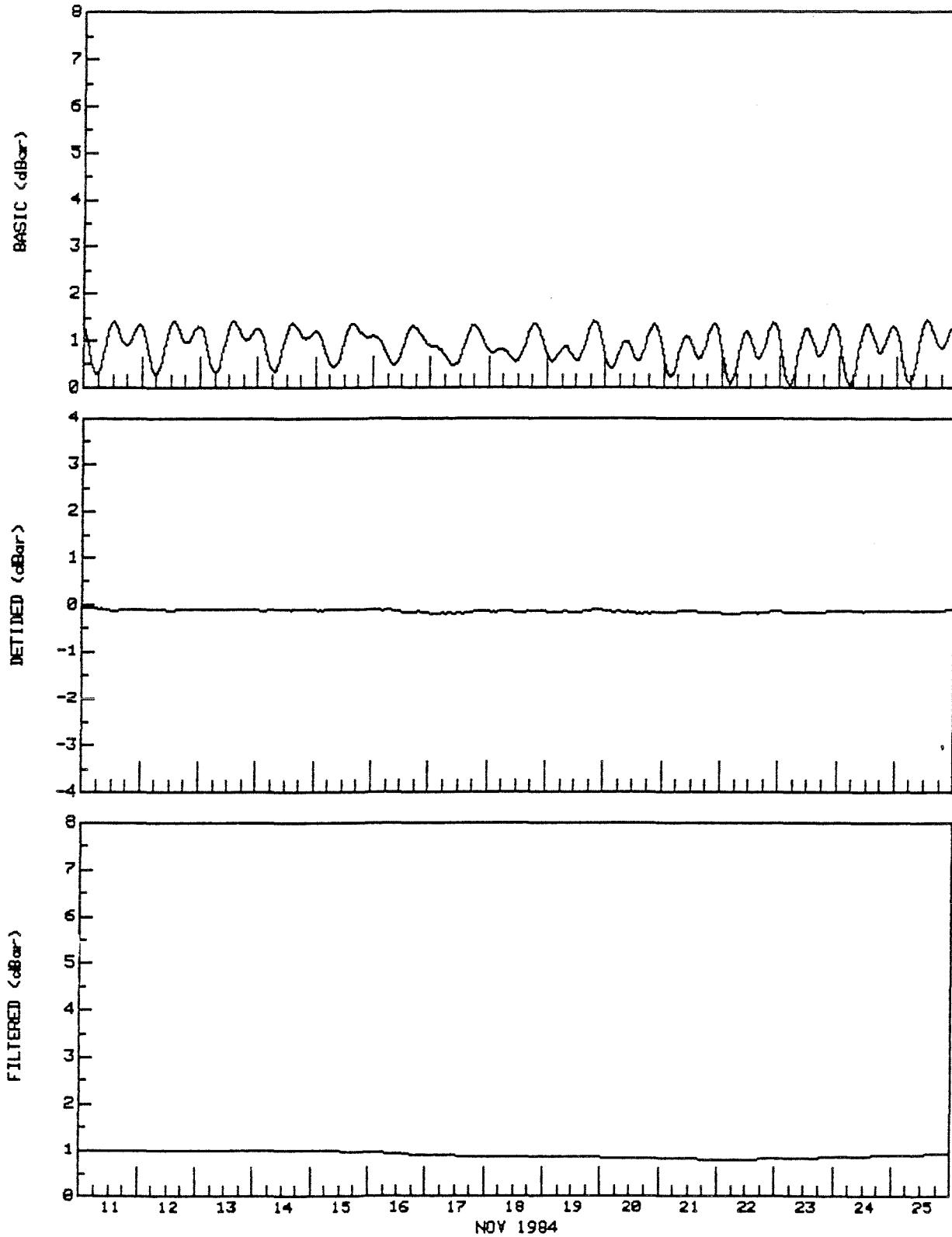
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TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N

TAPE 502/1

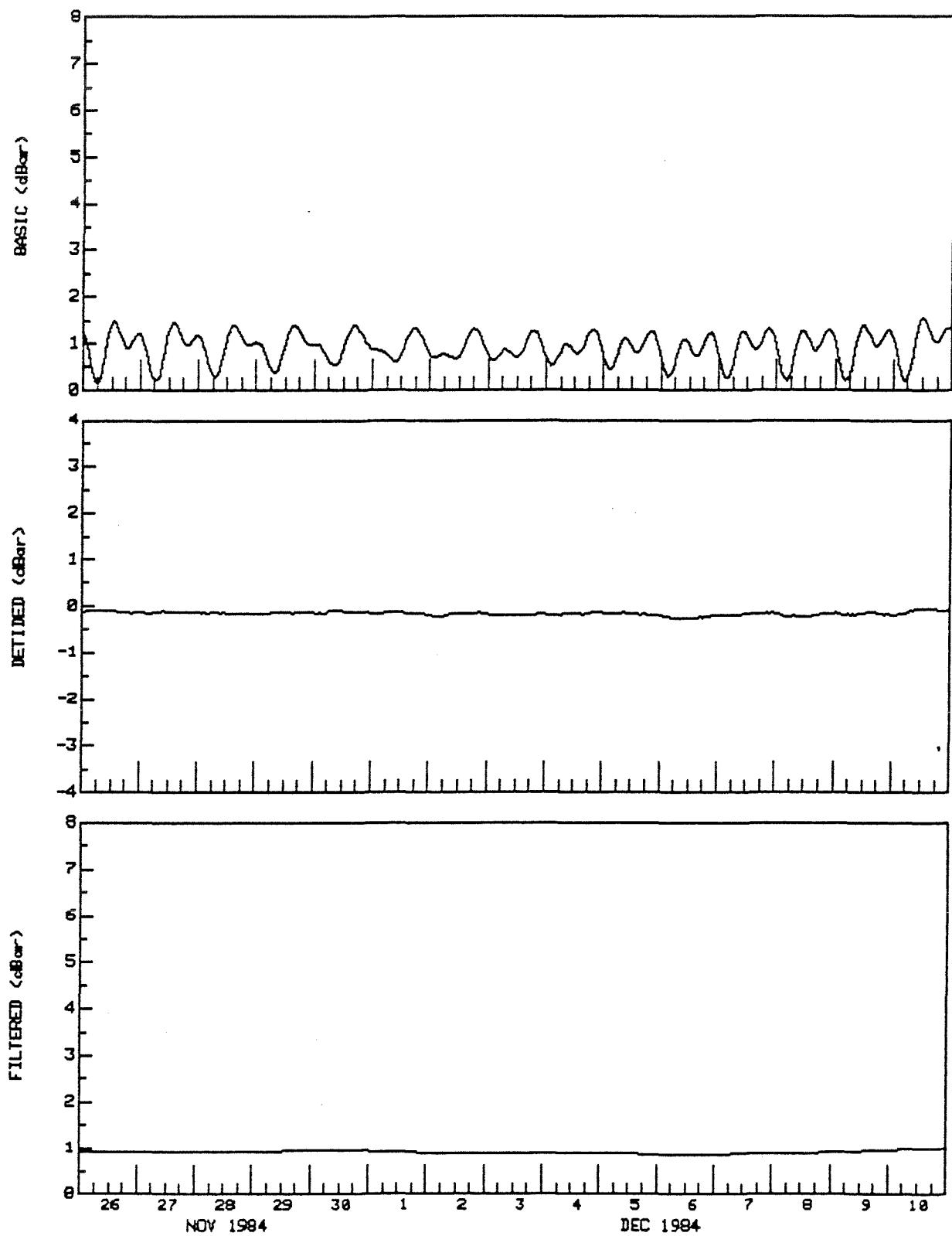
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DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

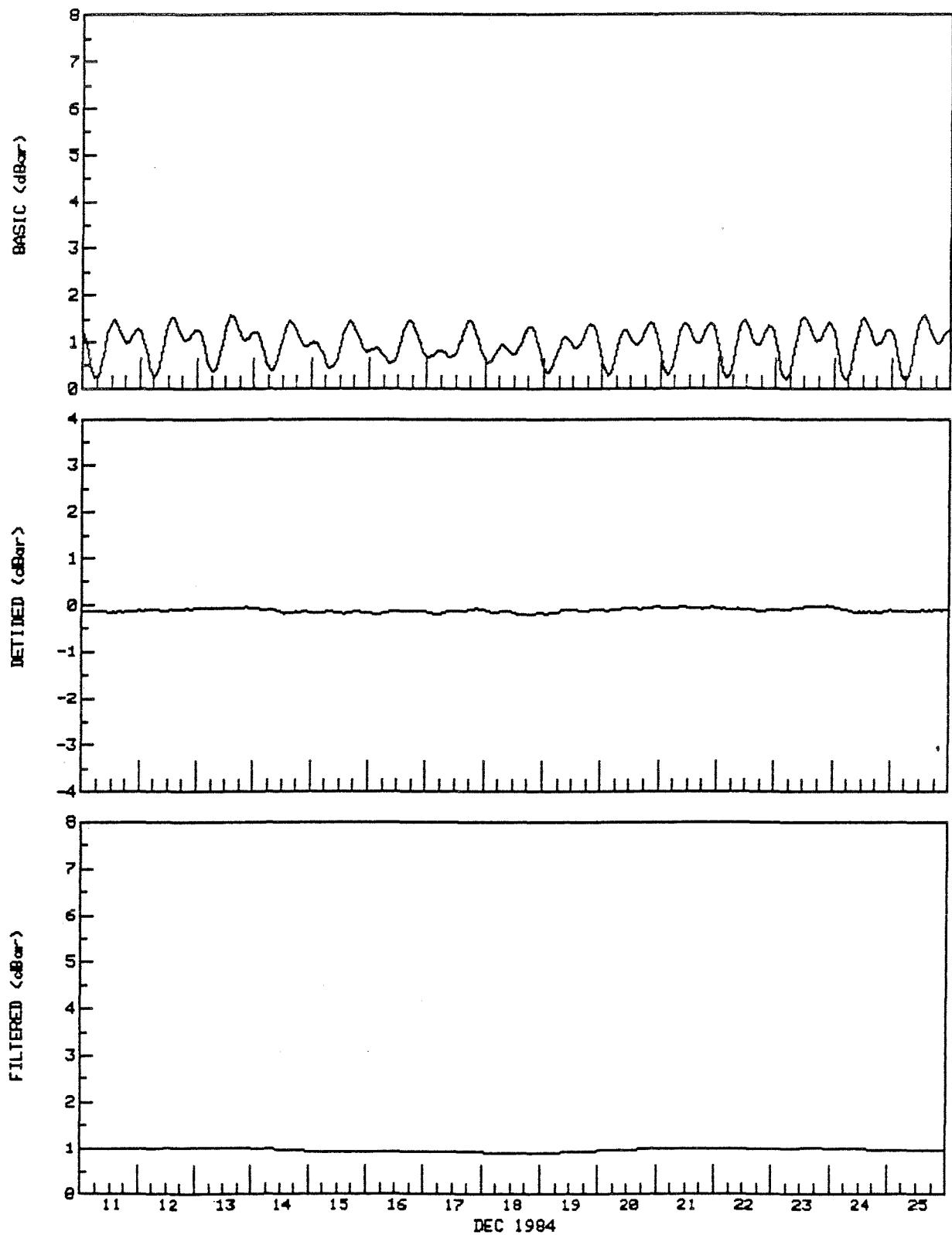
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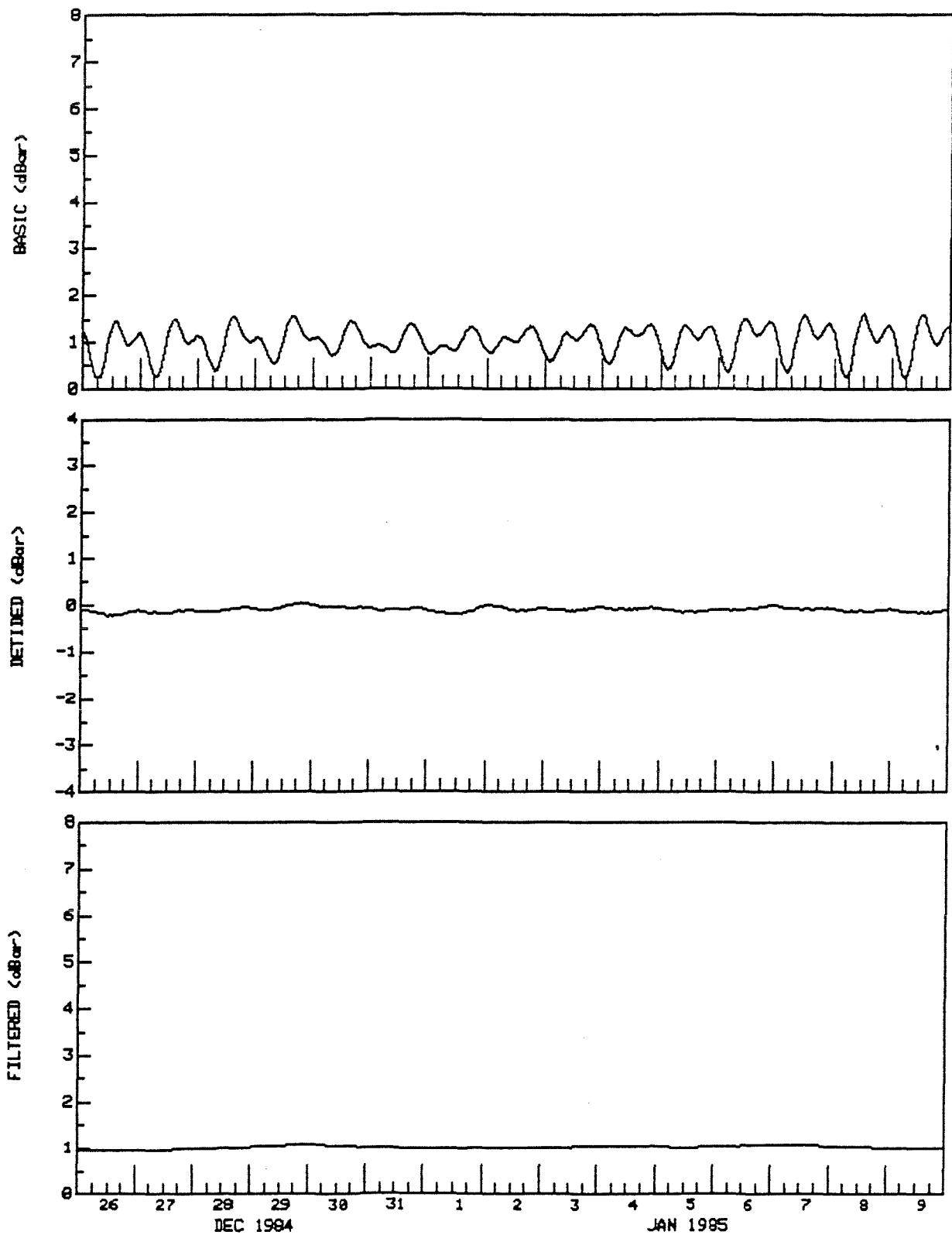
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TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
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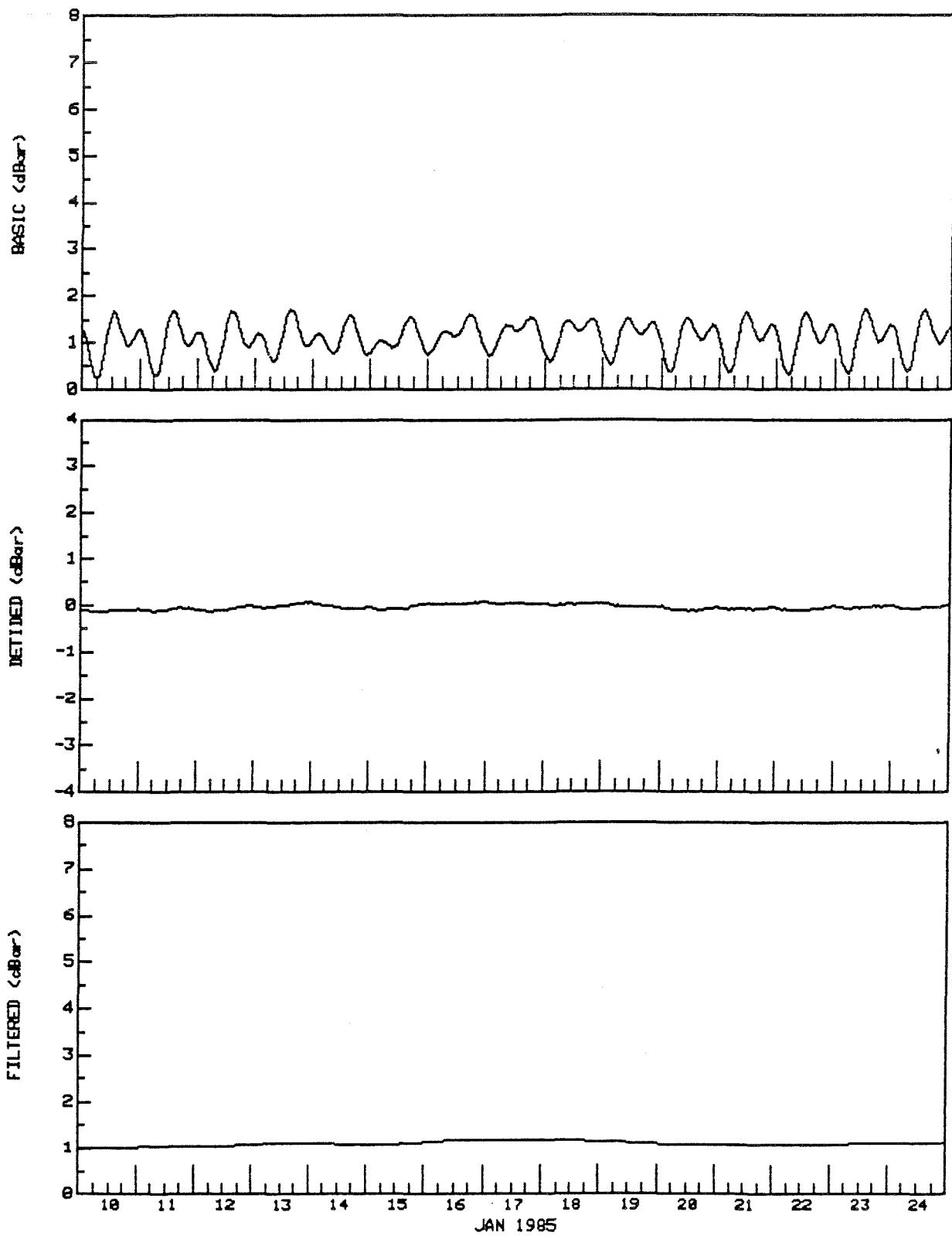
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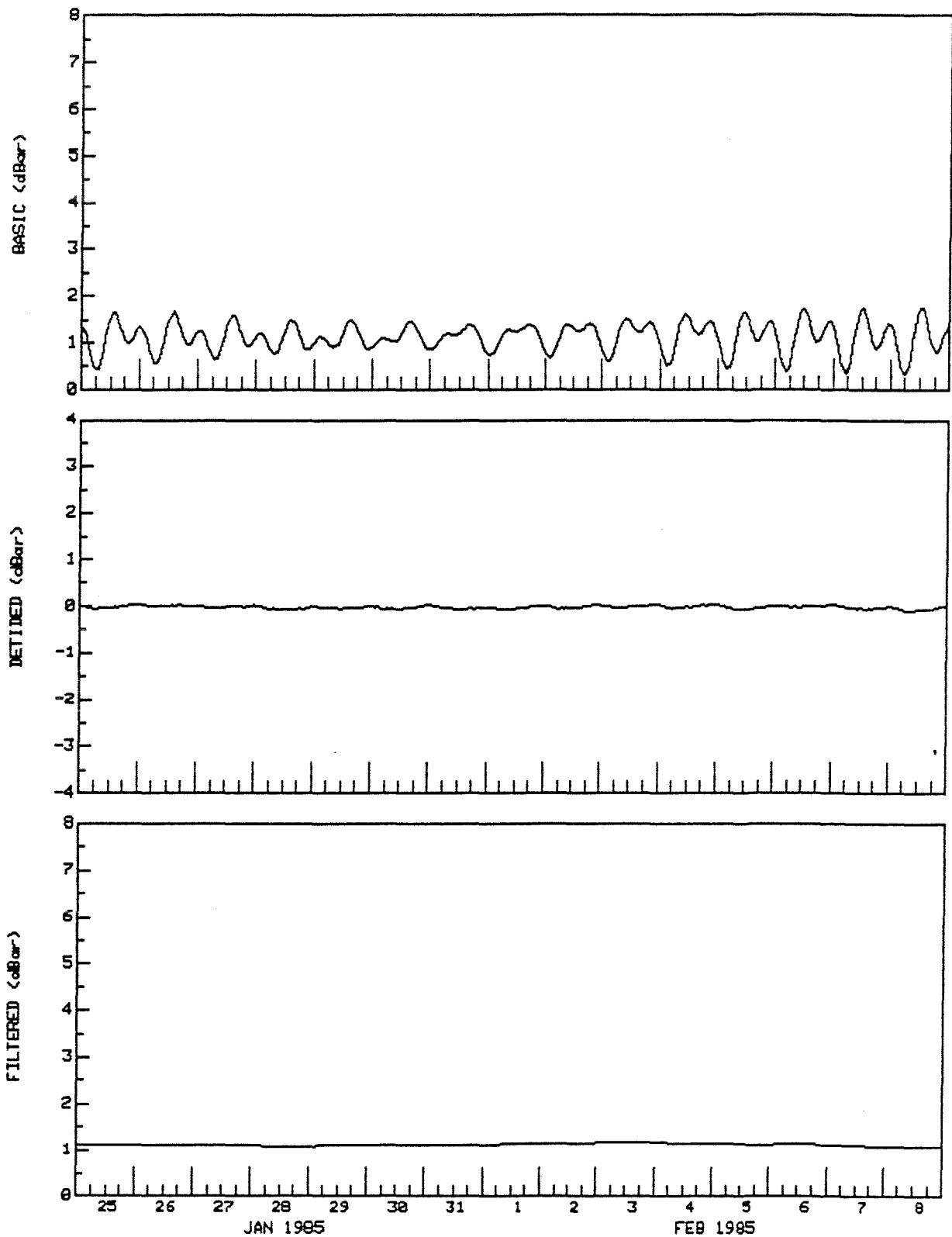
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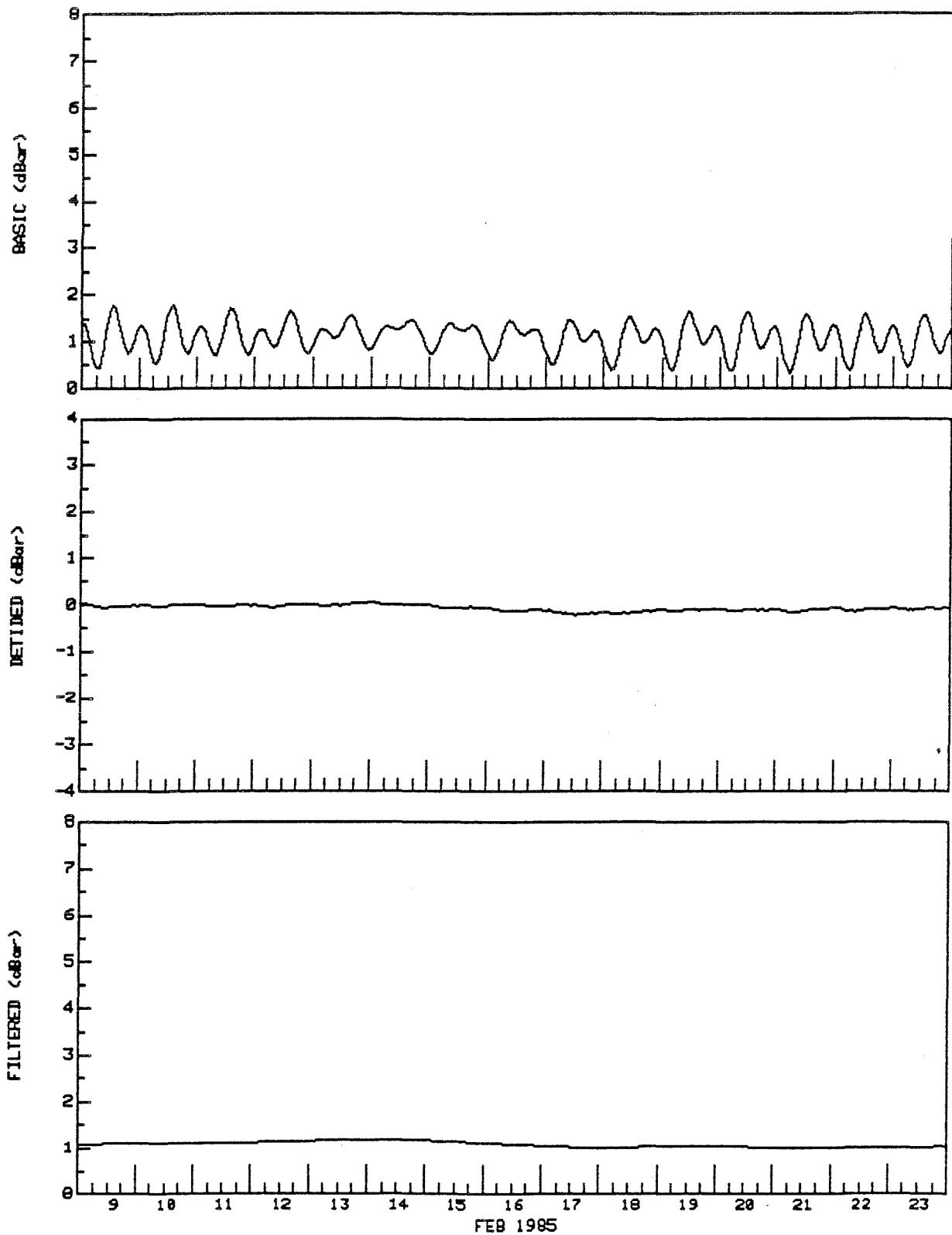
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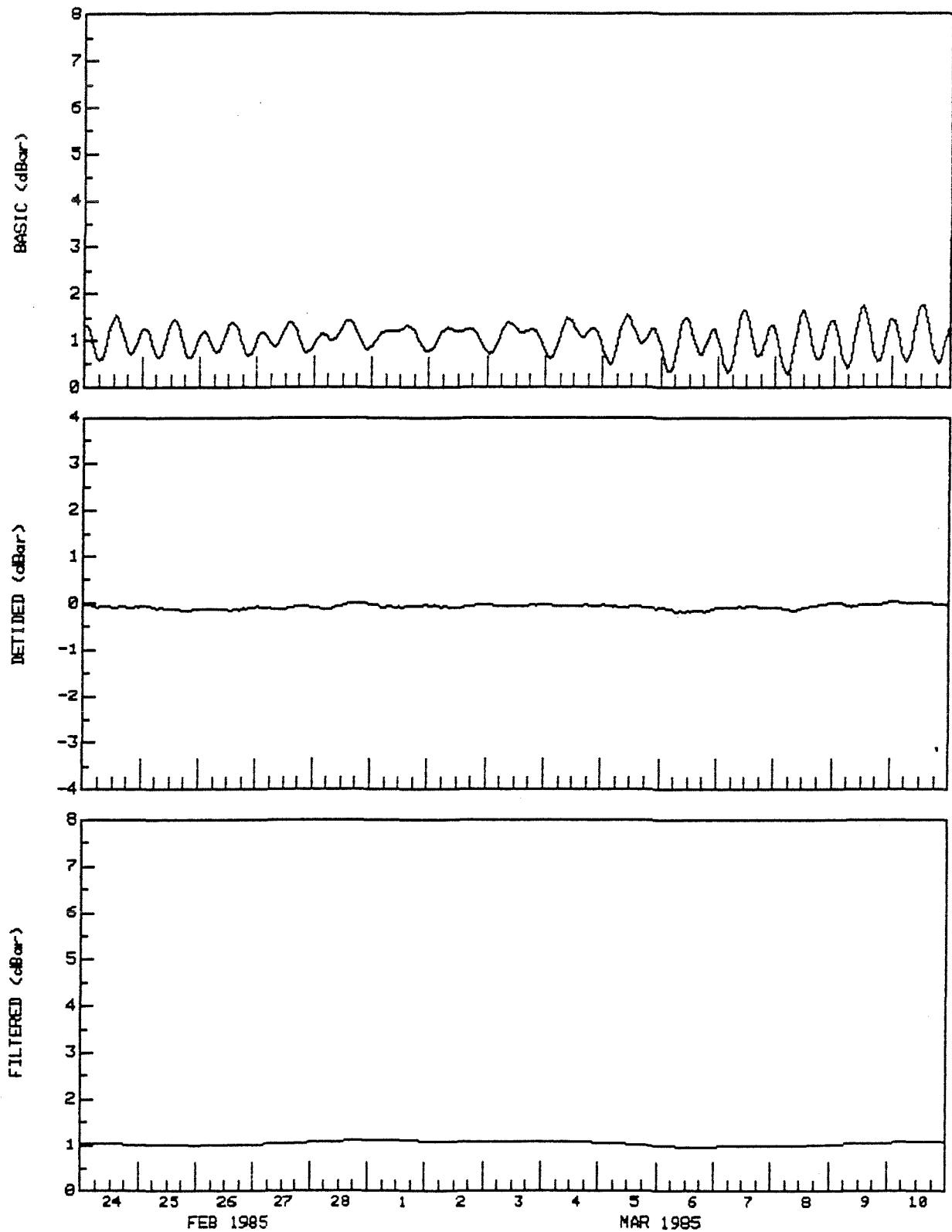
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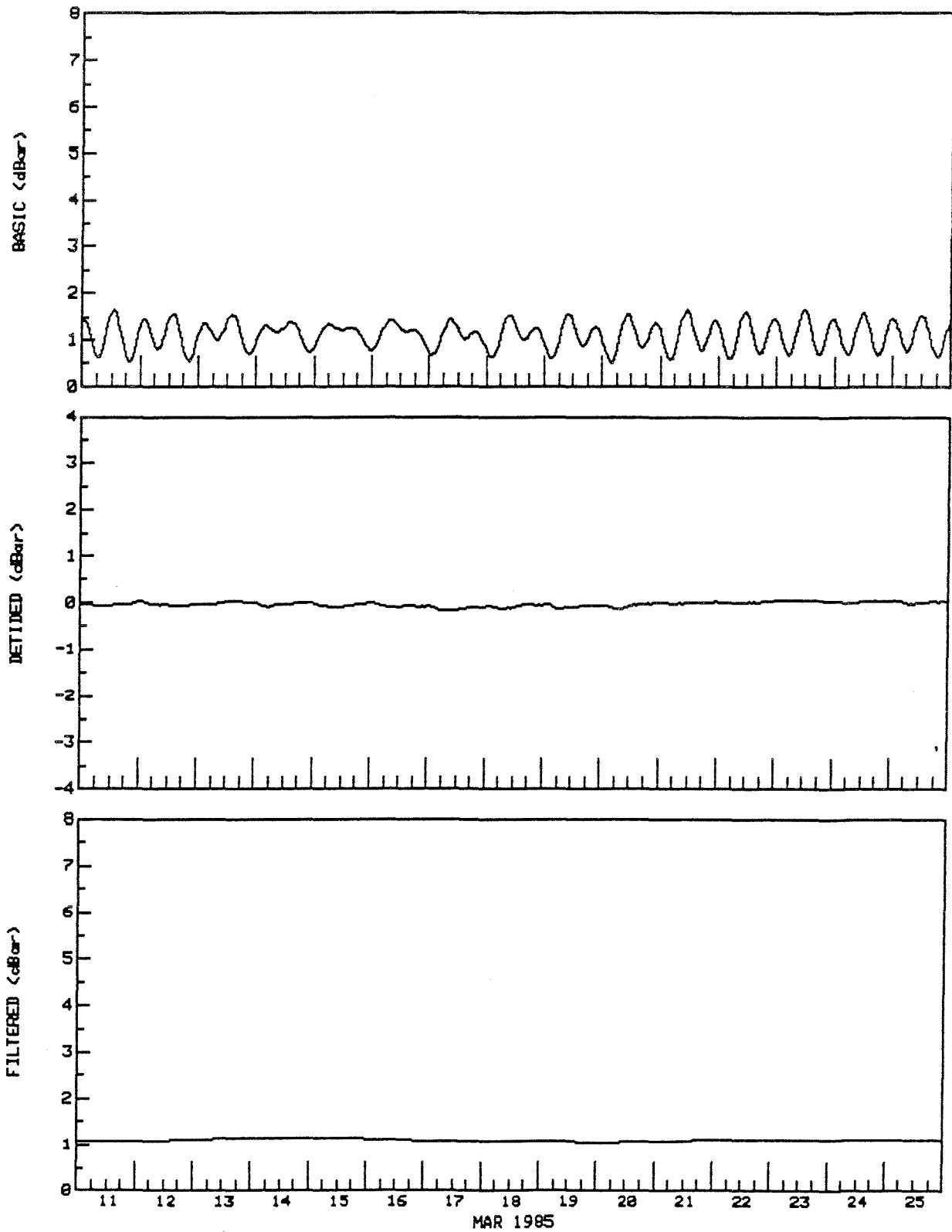
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DAVIS STRAIT
68 13' N

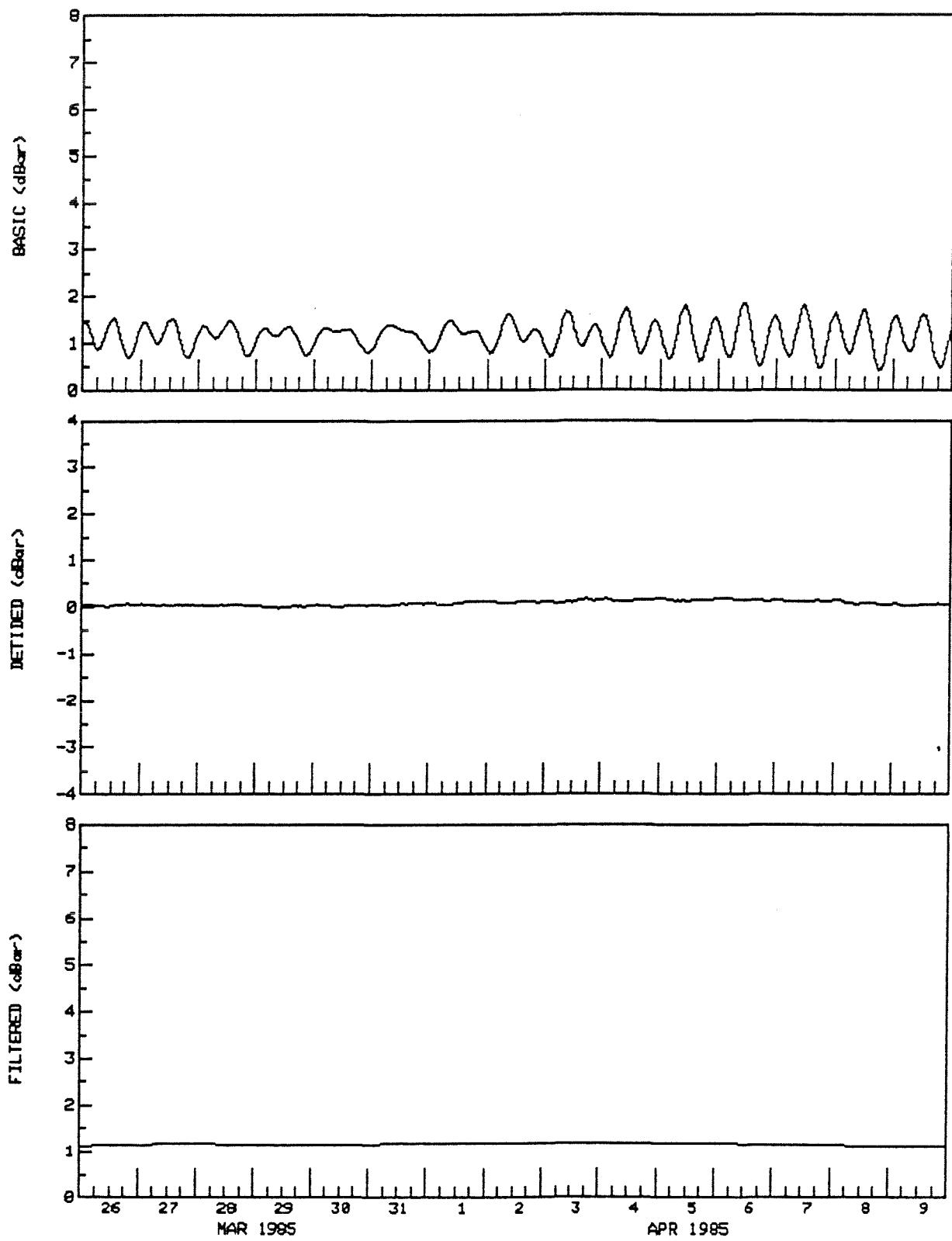
TAPE 502/1

DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

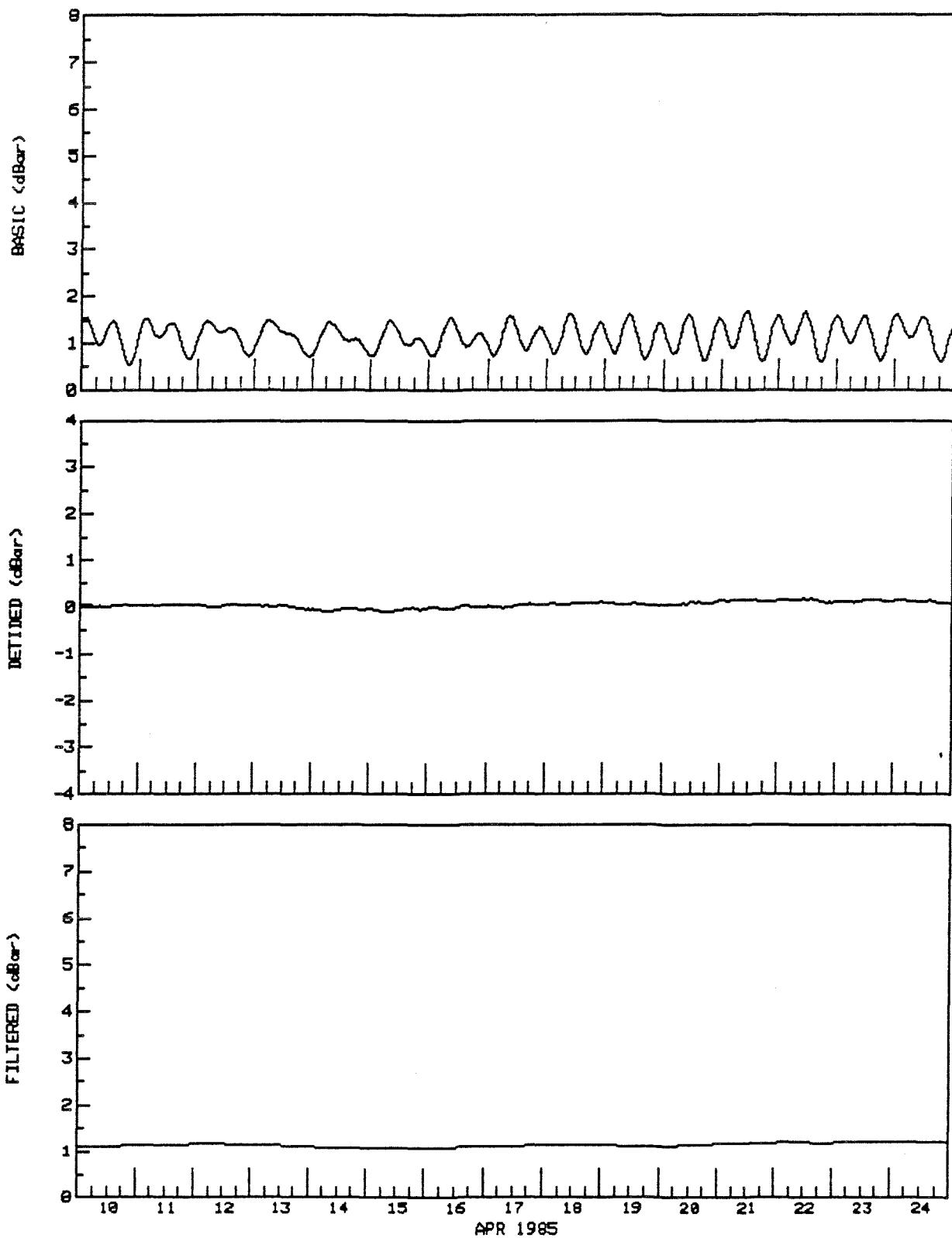
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

TAPE 502/1

DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

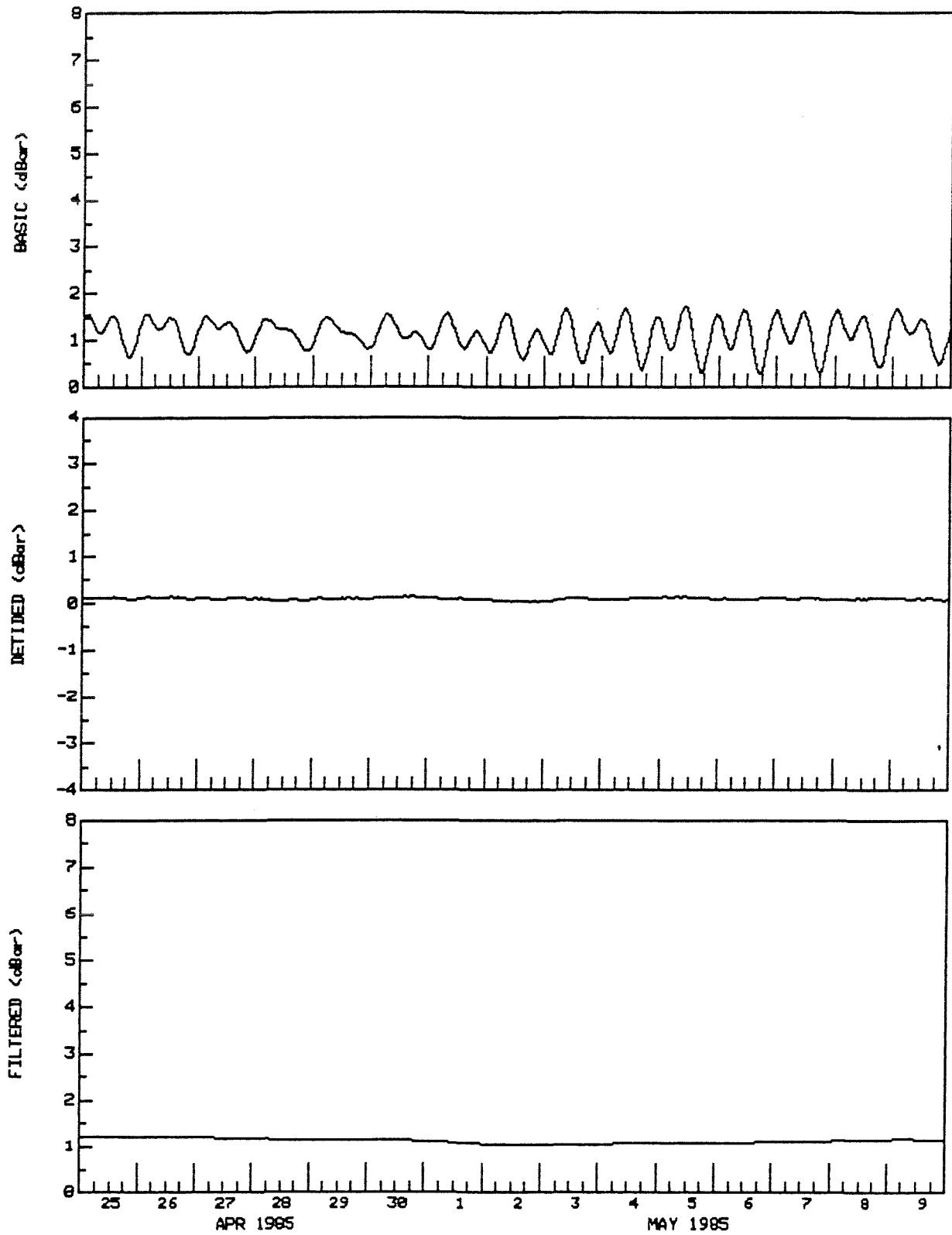
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
DAVIS STRAIT TAPE 502/1 DEPTH(m) 1716 TYPE DESPIKED
68 13' N 61 21' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

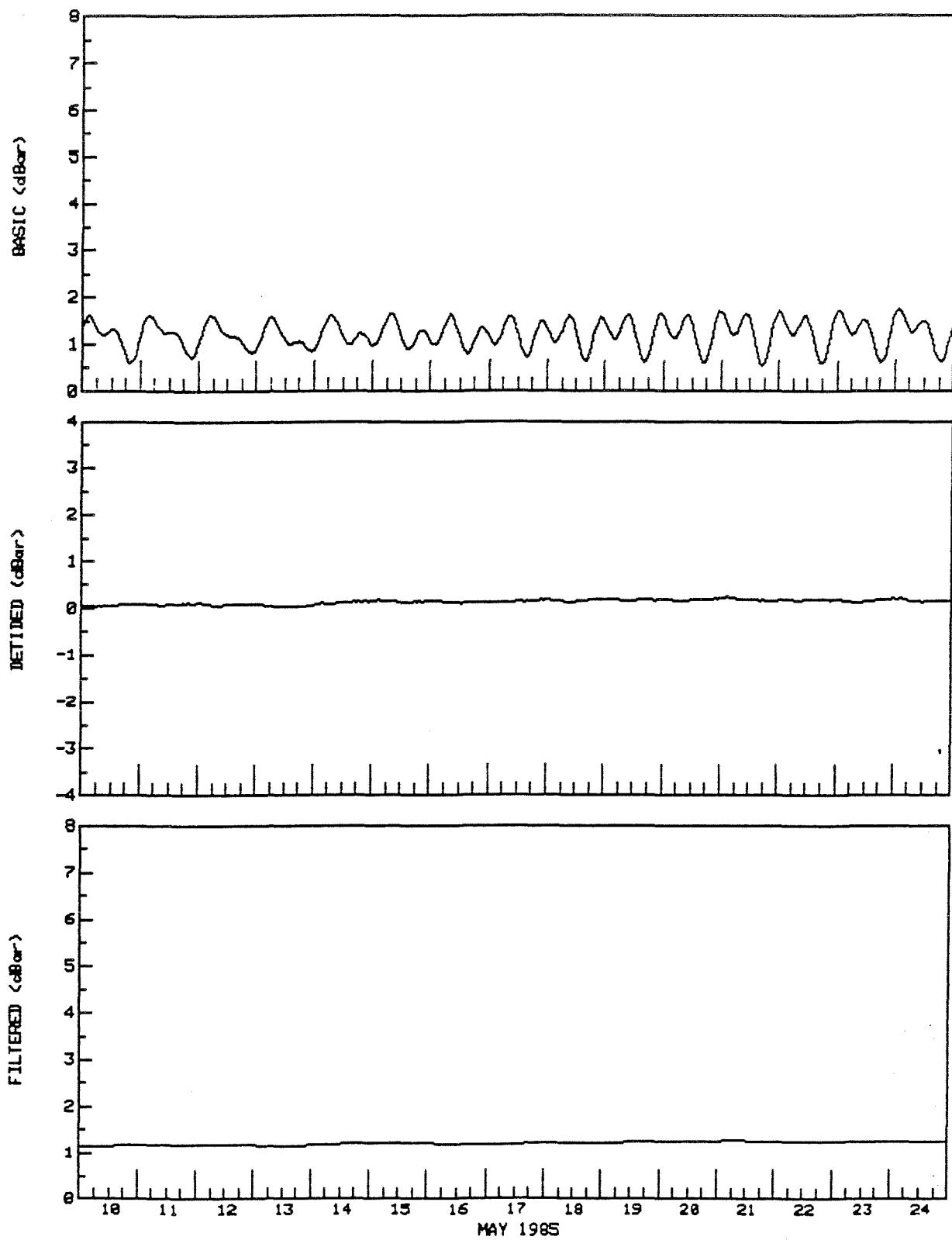
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DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

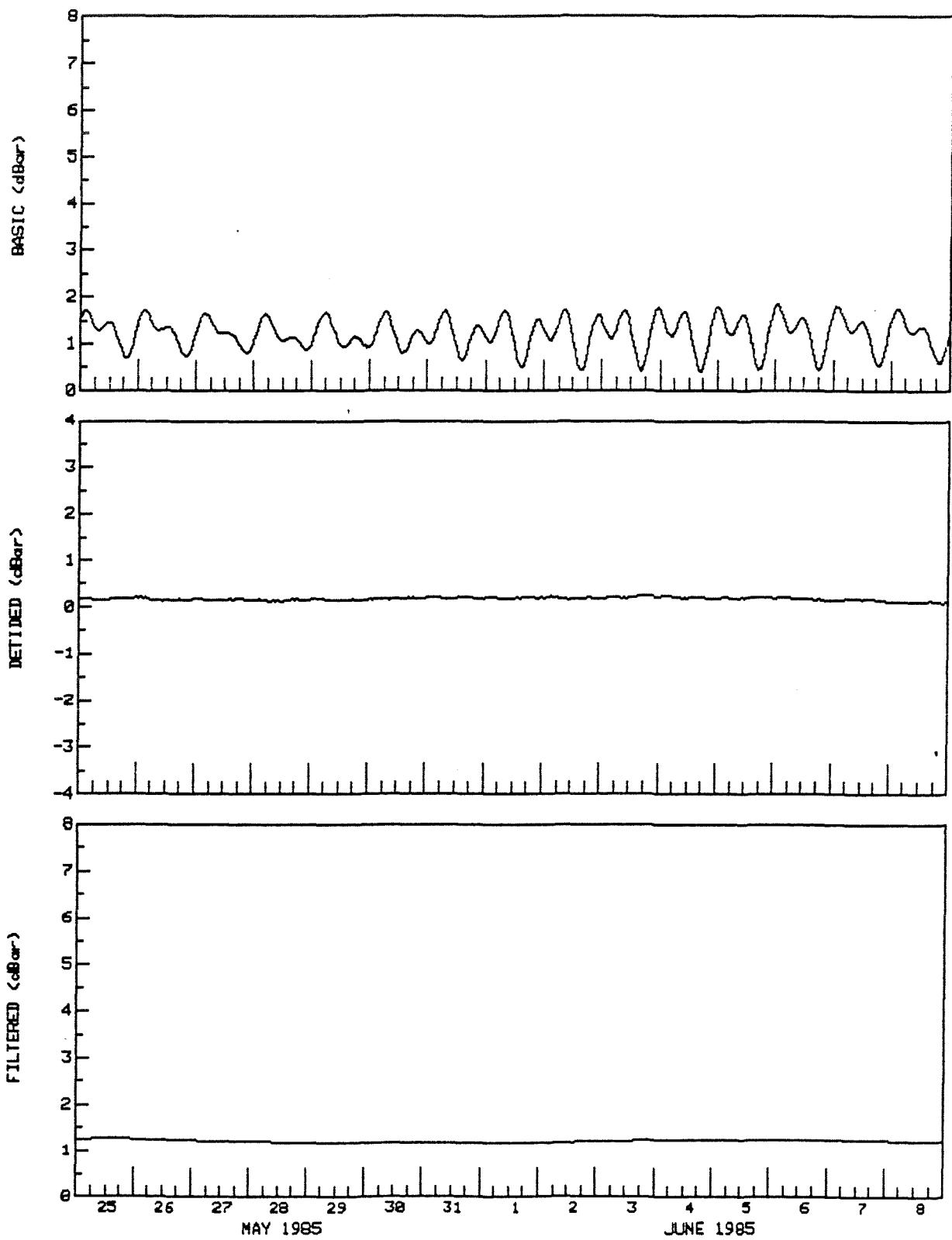
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DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

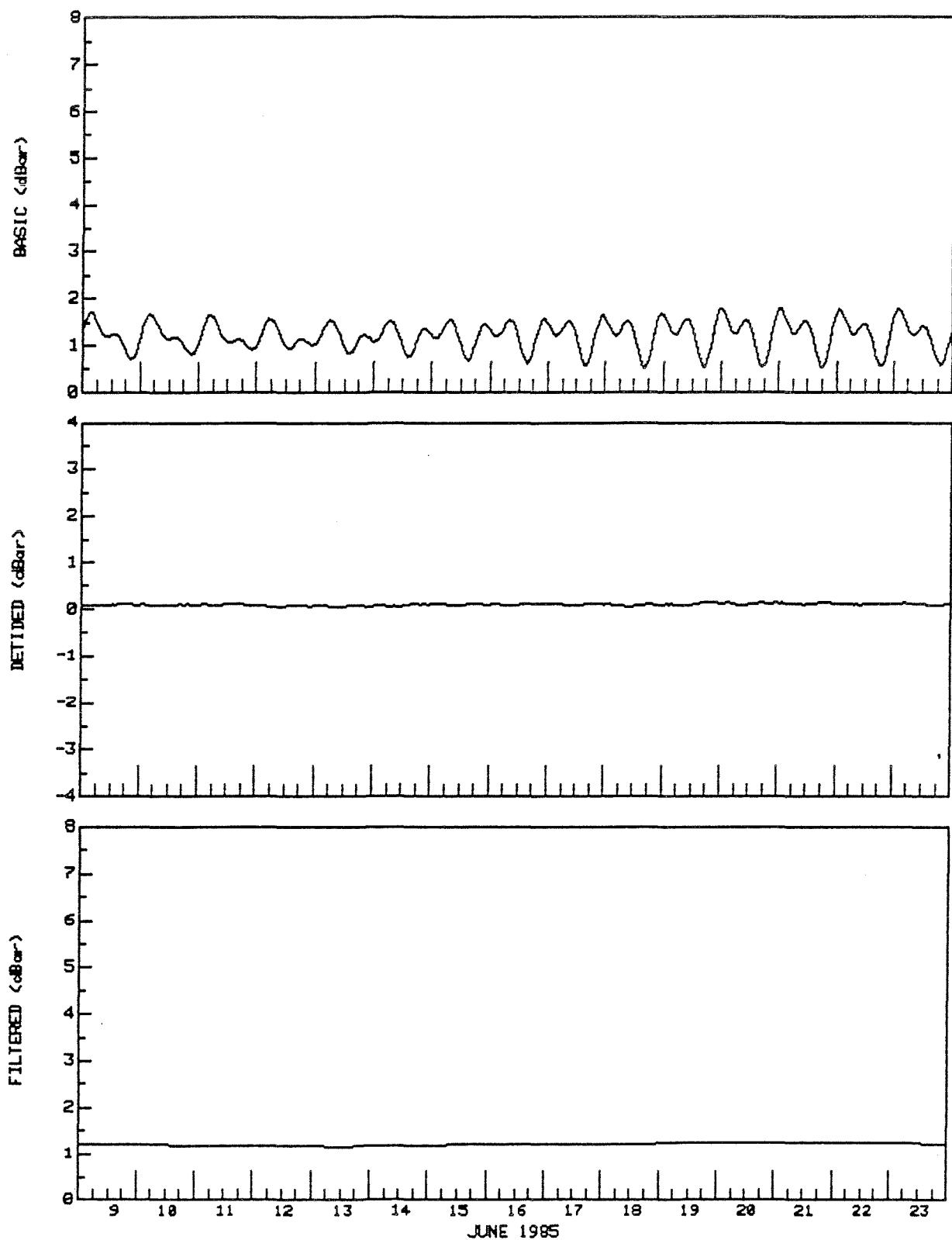
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DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

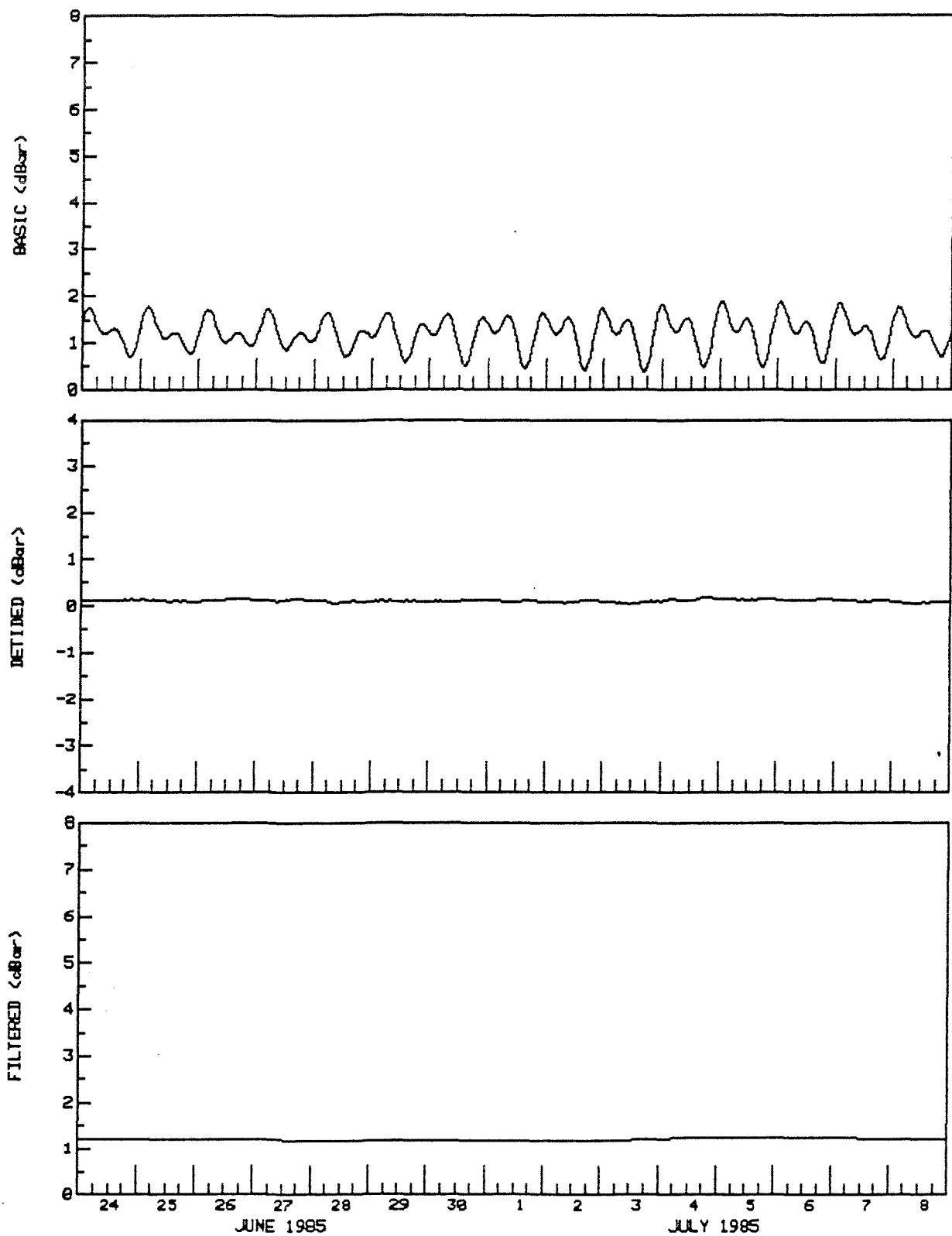
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DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

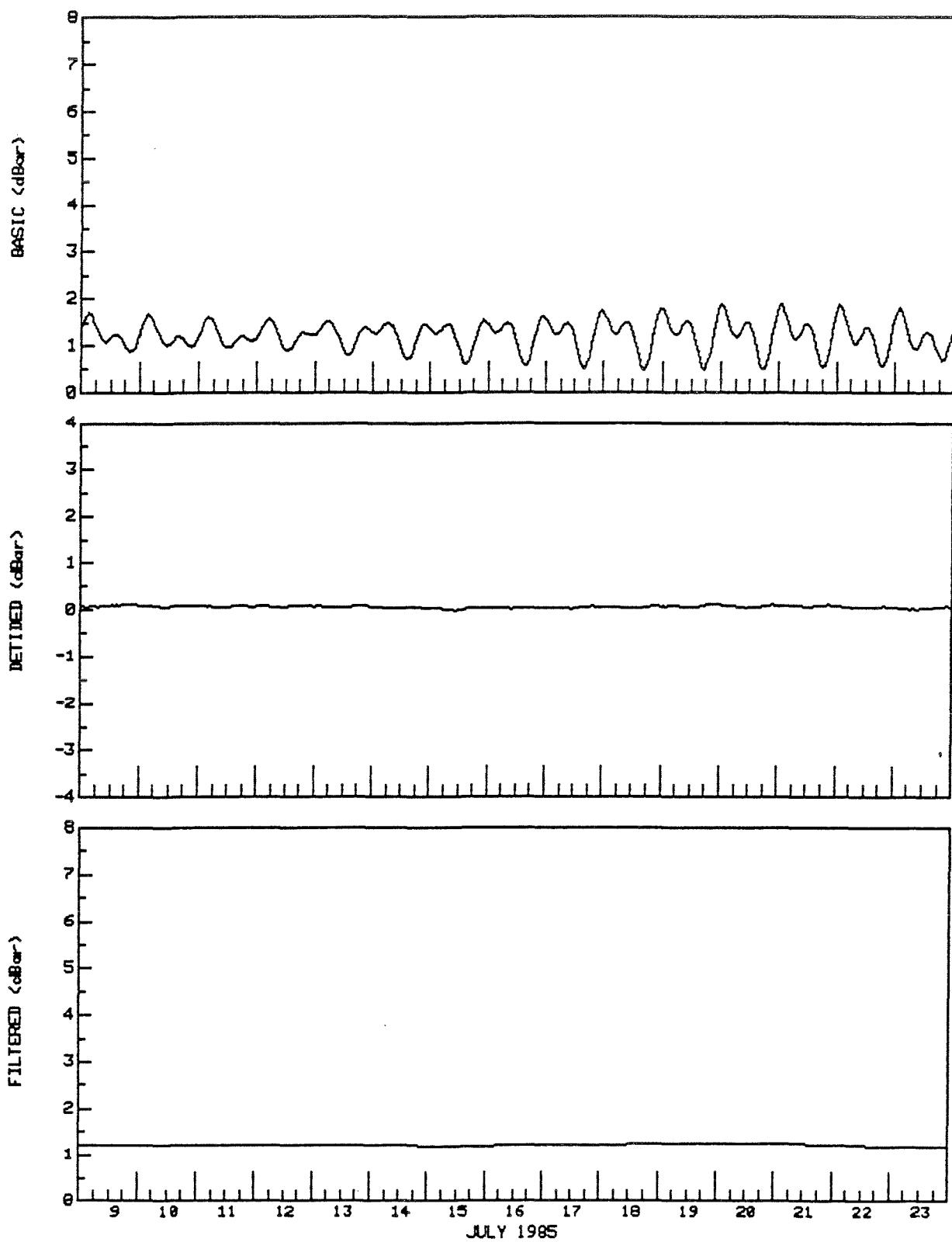
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DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

TAPE 502/1

DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT

68 13' N 61 21' W

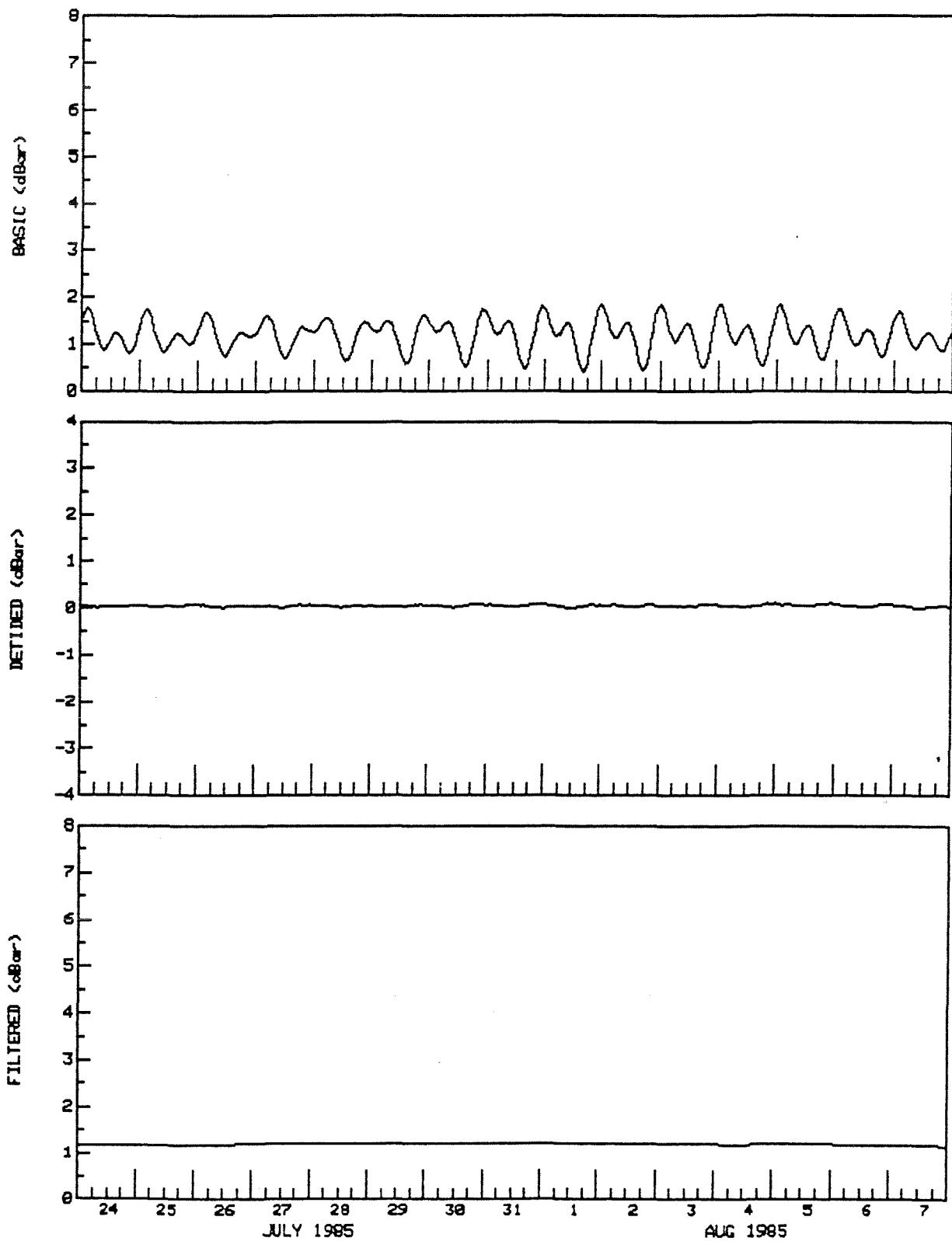
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DEPTH(m) 1716

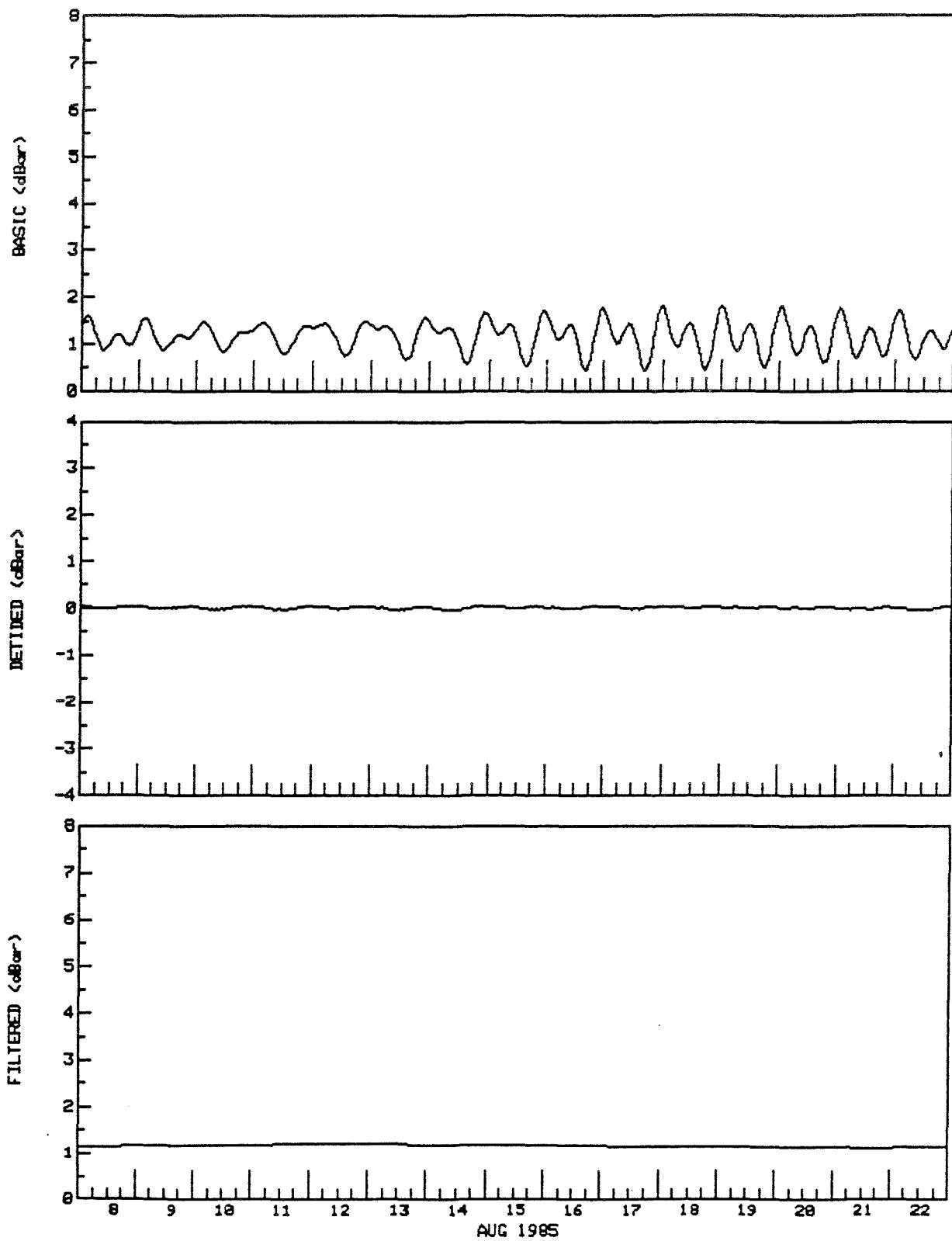
TYPE DESPIKED

AANDERAA WLR5

DT(min) 60



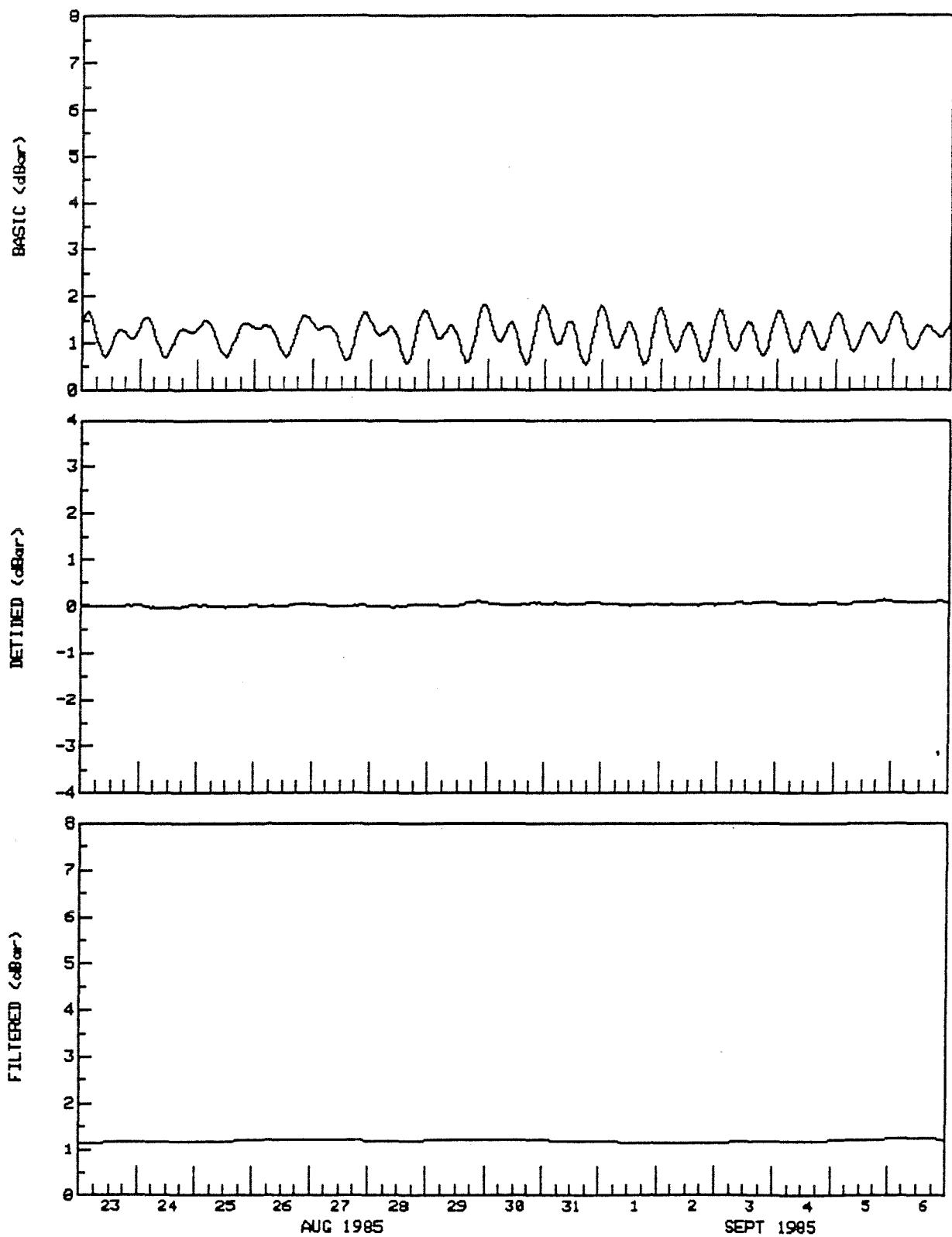
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
DAVIS STRAIT TAPE 502/1 DEPTH(m) 1716 TYPE DESPIKED
68 13' N 61 21' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

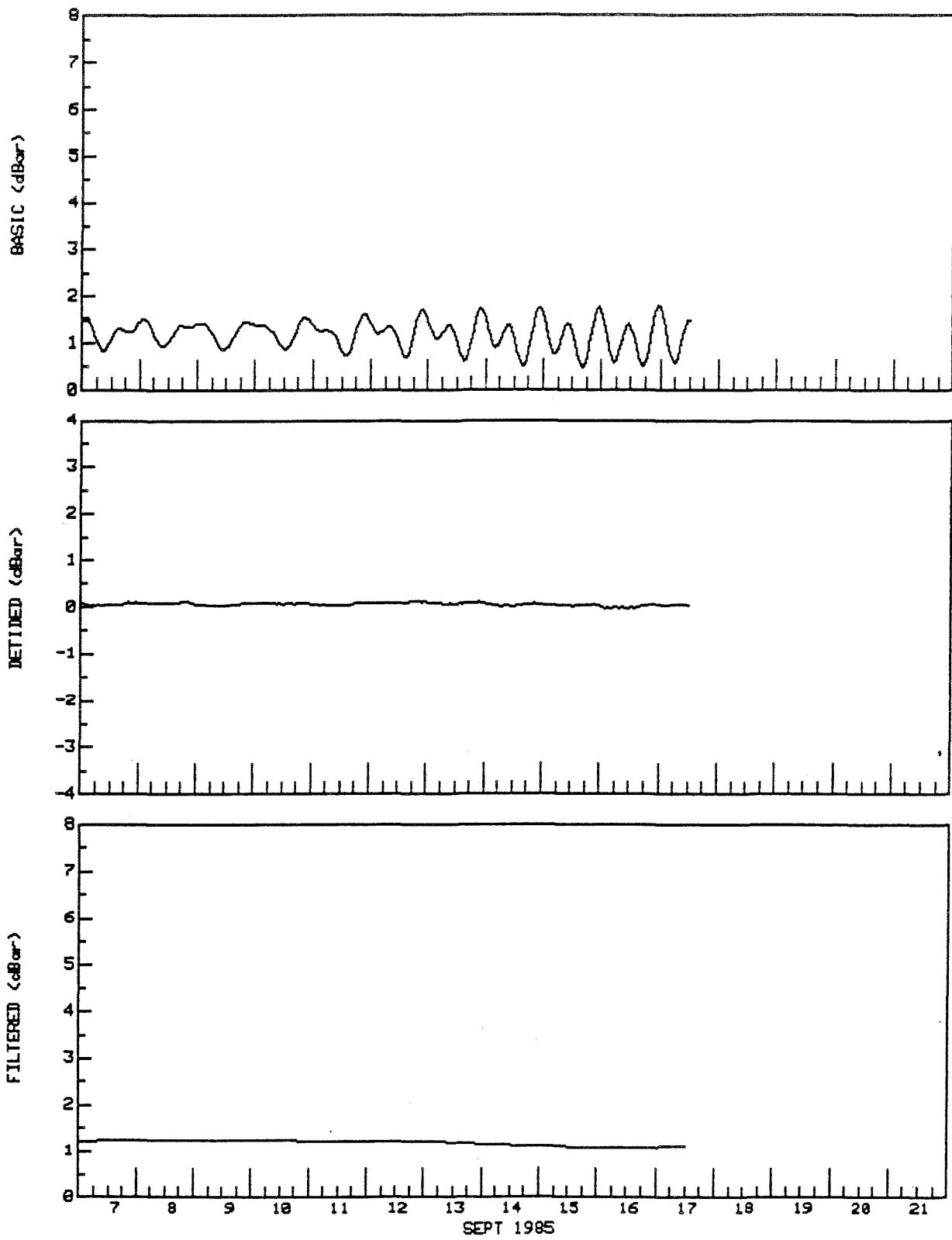
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DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLRS DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

DAVIS STRAIT
68 13' N 61 21' W

TAPE 502/1

DEPTH(m) 1716 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIDAL CONSTITUENTS AND TIME SERIES PLOTS**SITE # C****TIDE GAUGE # 436**

Site # C: Northern Baffin Bay

Position: 75°24'48"N 74°33'23"W

Tide Gauge #: Aandreaa WLRS #436

Date/Time of Deployment: 1984/09/27 12:20

Date/Time of Recovery: 1985/10/04 11:45

Sampling Interval: 60 minutes

Number of Records on Tape: 9382

Statistics:	Minimum	Maximum	Mean	Std Dev
Relative Pressure	0.000	3.000	1.464	0.592
Detided Pressure	-0.245	0.250	-0.001	0.066
Filtered Pressure	1.264	1.646	1.464	0.070

Data Quality: Several spikes in both temperature and pressure signals.

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

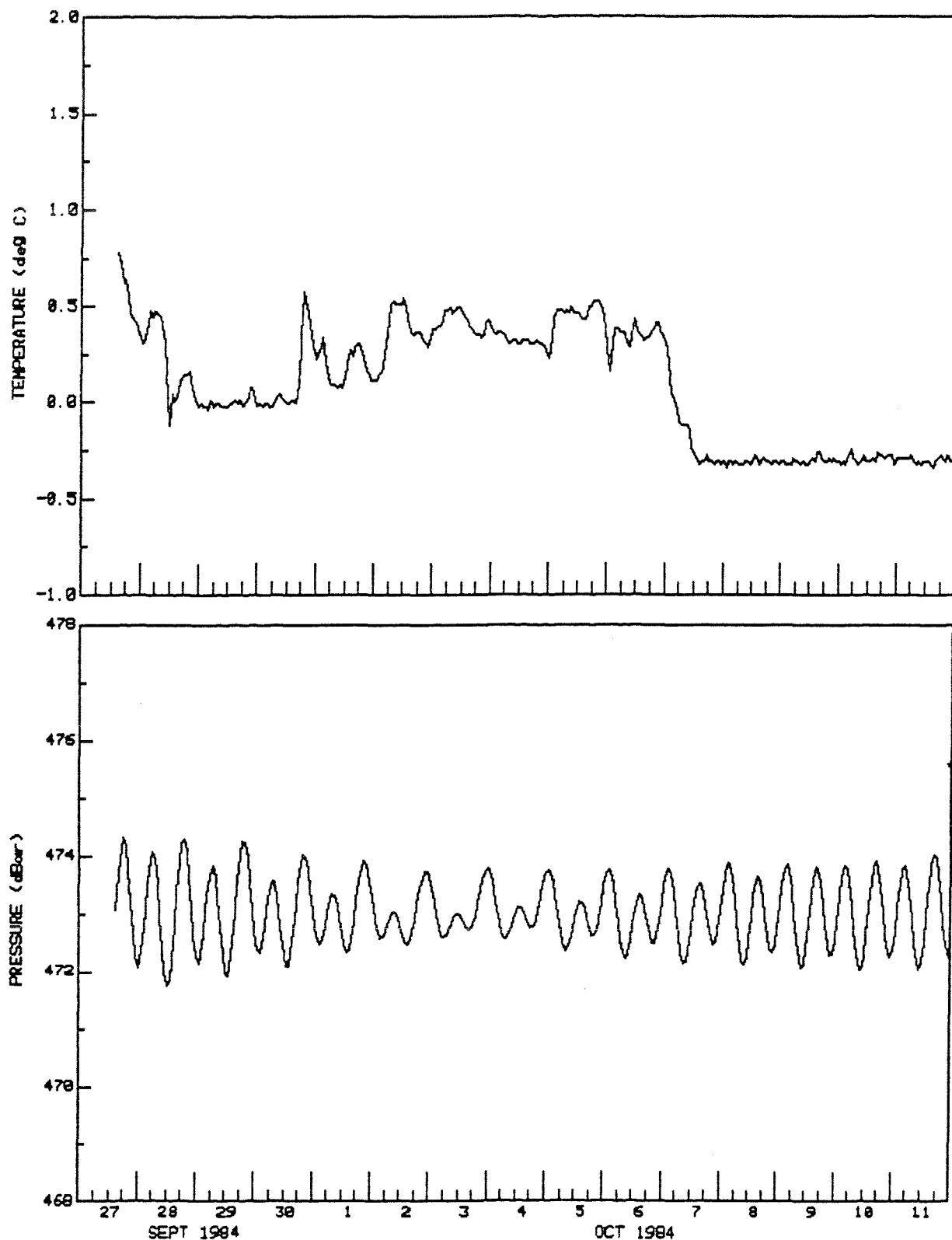
ANALYSIS OF HOURLY TIDAL HEIGHTS
 STN: N. BAFFIN BAY LAT: 75 24 49.0 N
 DEPTH: 473 M LONG: 74 33 23.0 W
 START: 1500Z 27/ 9/84 END: 1100Z 4/10/85
 NO.OBS.= 8925 NO.PTS.ANAL.= 8925 MIDPT: 1300Z 1/ 4/85

	NAME	FREQUENCY (CY/HR)	A (M)	G
1	Z0	0.00000000	1.4537	0.00
2	SA	0.00011407	0.0263	220.73
3	SSA	0.00022816	0.0155	144.37
4	MSM	0.00130978	0.0271	140.24
5	MM	0.00151215	0.0187	206.08
6	MSF	0.00282193	0.0150	185.29
7	MF	0.00305009	0.0324	210.53
8	ALP1	0.03439657	0.0015	6.82
9	2Q1	0.03570635	0.0030	264.80
10	SIG1	0.03590872	0.0019	295.27
11	Q1	0.03721850	0.0067	229.54
12	RHO1	0.03742087	0.0017	178.78
13	O1	0.03873065	0.1177	221.32
14	TAU1	0.03895881	0.0032	225.13
15	BET1	0.04004044	0.0018	241.33
16	NO1	0.04026860	0.0154	228.47
17	CHI1	0.04047097	0.0039	258.50
18	PI1	0.04143851	0.0081	263.08
19	P1	0.04155259	0.0953	256.26
20	S1	0.04166667	0.0197	15.53
21	K1	0.04178075	0.3117	260.03
22	PSI1	0.04189482	0.0044	57.27
23	PHI1	0.04200891	0.0032	254.12
24	THE1	0.04309053	0.0028	273.81
25	J1	0.04329290	0.0161	275.51
26	S01	0.04460268	0.0020	310.15
27	001	0.04483084	0.0071	280.22
28	UPS1	0.04634299	0.0020	273.93
29	OQ2	0.07597494	0.0033	357.94
30	EPS2	0.07617730	0.0060	359.23
31	2N2	0.07748711	0.0216	48.69
32	MU2	0.07768947	0.0235	51.51
33	N2	0.07899922	0.1410	93.89
34	NU2	0.07920164	0.0276	99.05
35	H1	0.08039731	0.0051	251.40
36	M2	0.08051139	0.6855	118.99
37	H2	0.08062547	0.0091	201.42
38	MKS2	0.08073956	0.0017	60.70
39	LDA2	0.08182120	0.0035	131.45
40	L2	0.08202356	0.0158	140.54
41	T2	0.08321923	0.0147	156.56
42	S2	0.08333331	0.2523	159.71
43	R2	0.08344740	0.0038	168.56
44	K2	0.08356148	0.0717	157.89
45	MSN2	0.08484548	0.0010	154.07
46	ETA2	0.08507365	0.0028	212.66
47	M03	0.11924207	0.0018	200.20
48	M3	0.12076712	0.0035	260.63
49	S03	0.12206399	0.0018	272.38
50	MK3	0.12229216	0.0026	254.03
51	SK3	0.12511408	0.0021	194.82
52	MN4	0.15951067	0.0005	63.49
53	M4	0.16102278	0.0015	126.64
54	SN4	0.16233259	0.0003	109.39
55	MS4	0.16384470	0.0011	207.71
56	MK4	0.16407287	0.0005	214.65
57	S4	0.16666669	0.0004	207.72
58	SK4	0.16689485	0.0001	0.29
59	2MK5	0.20280355	0.0002	89.92
60	2SK5	0.20844740	0.0002	352.86
61	2MN6	0.24002206	0.0003	358.18
62	M6	0.24153417	0.0003	95.37
63	2MS6	0.24435616	0.0003	188.45
64	2MK6	0.24458432	0.0001	146.19
65	2SM6	0.24717808	0.0003	269.86
66	MSK6	0.24740624	0.0000	279.50
67	3MK7	0.28331494	0.0001	212.04
68	M8	0.32204562	0.0001	318.00

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

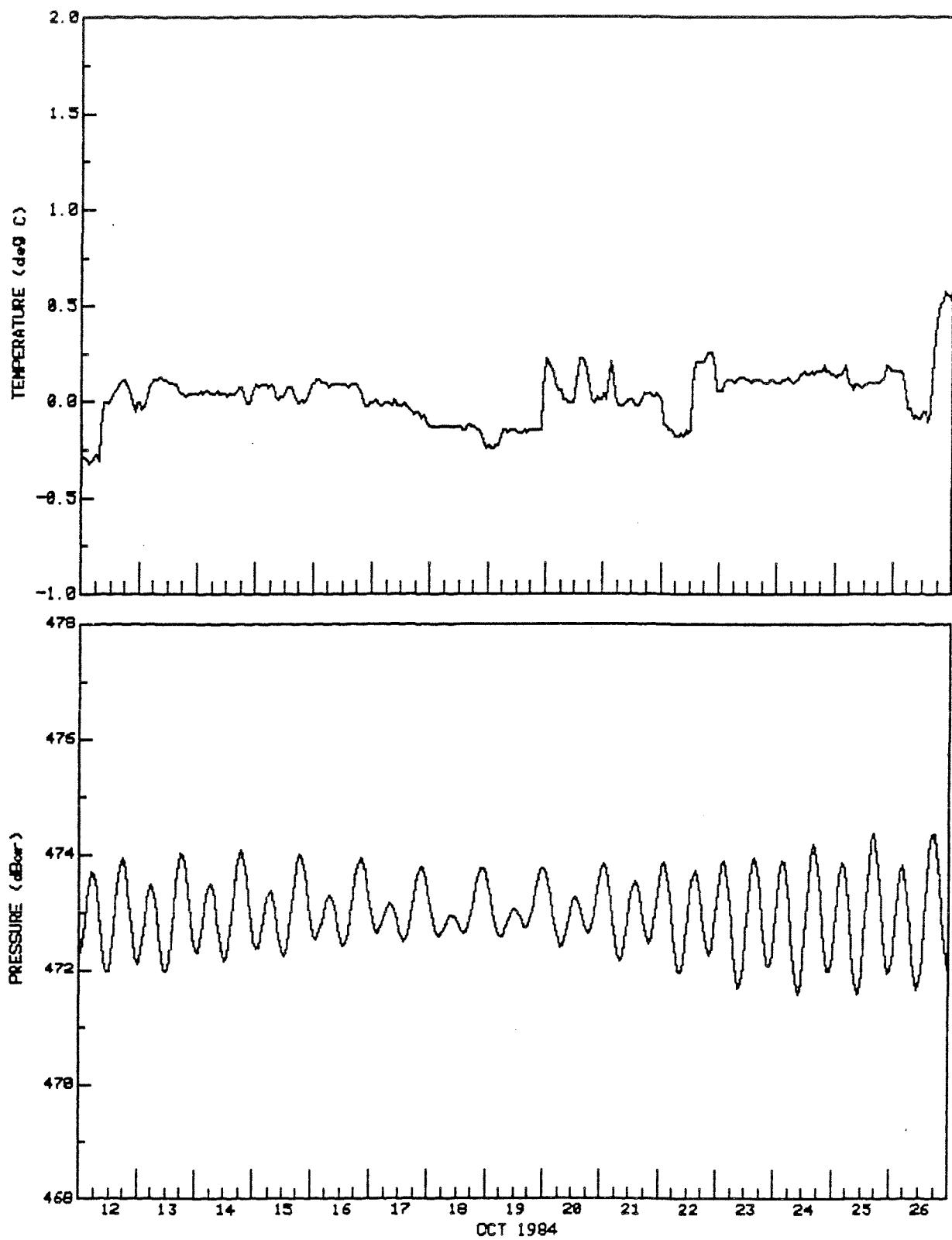
TAPE 436/1

DEPTH(m) 473
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

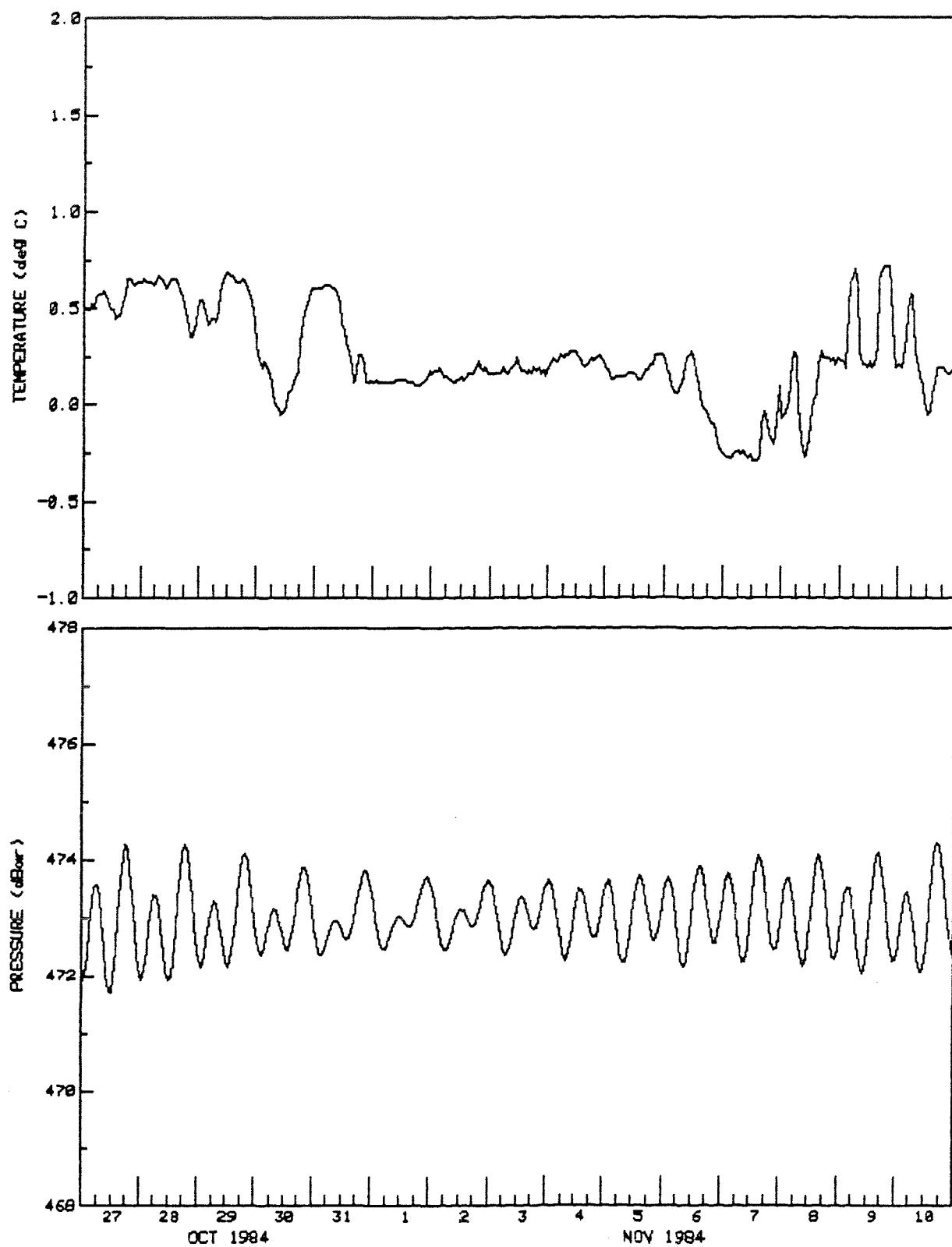
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

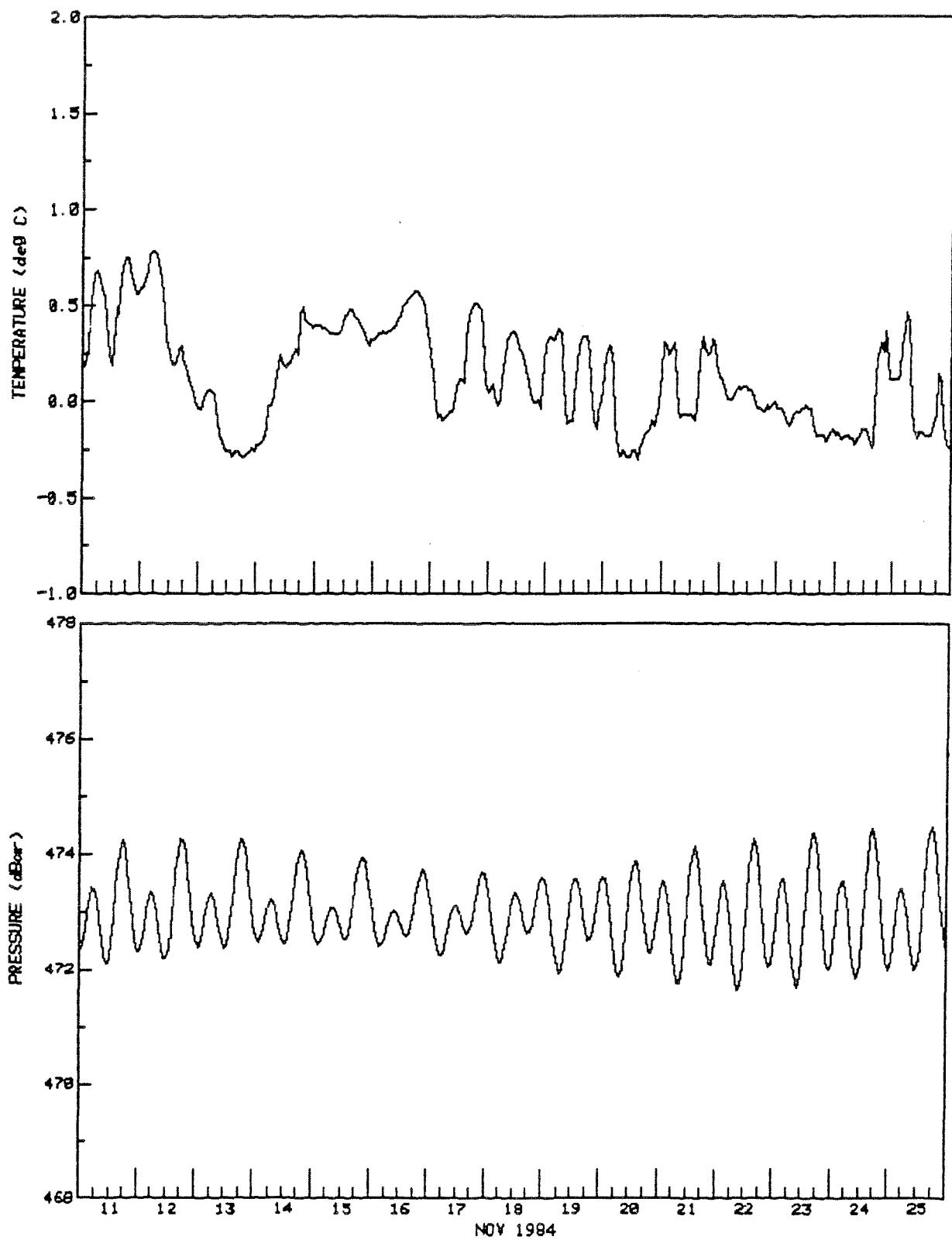
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

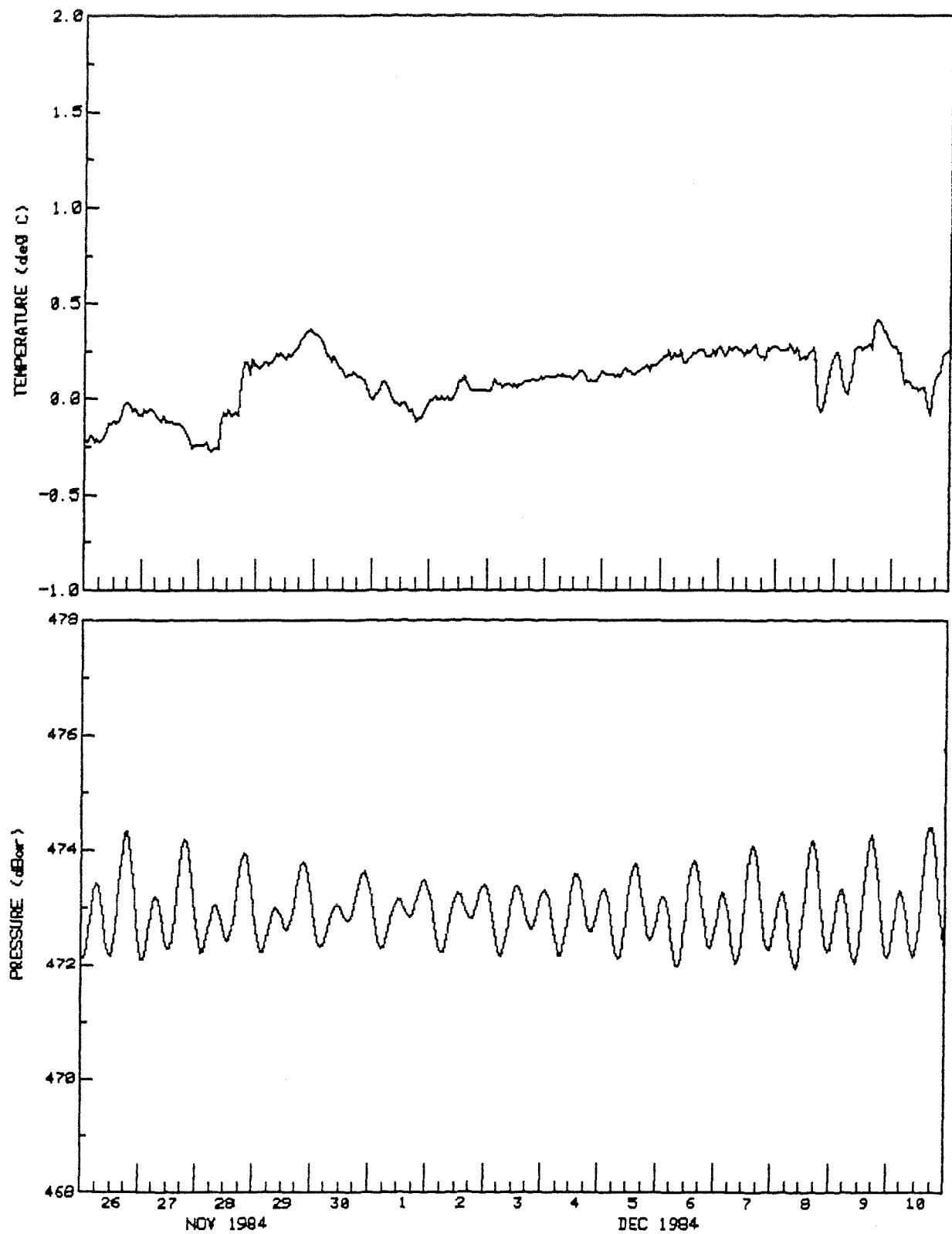
TAPE 436/1

DEPTH(m) 473
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N

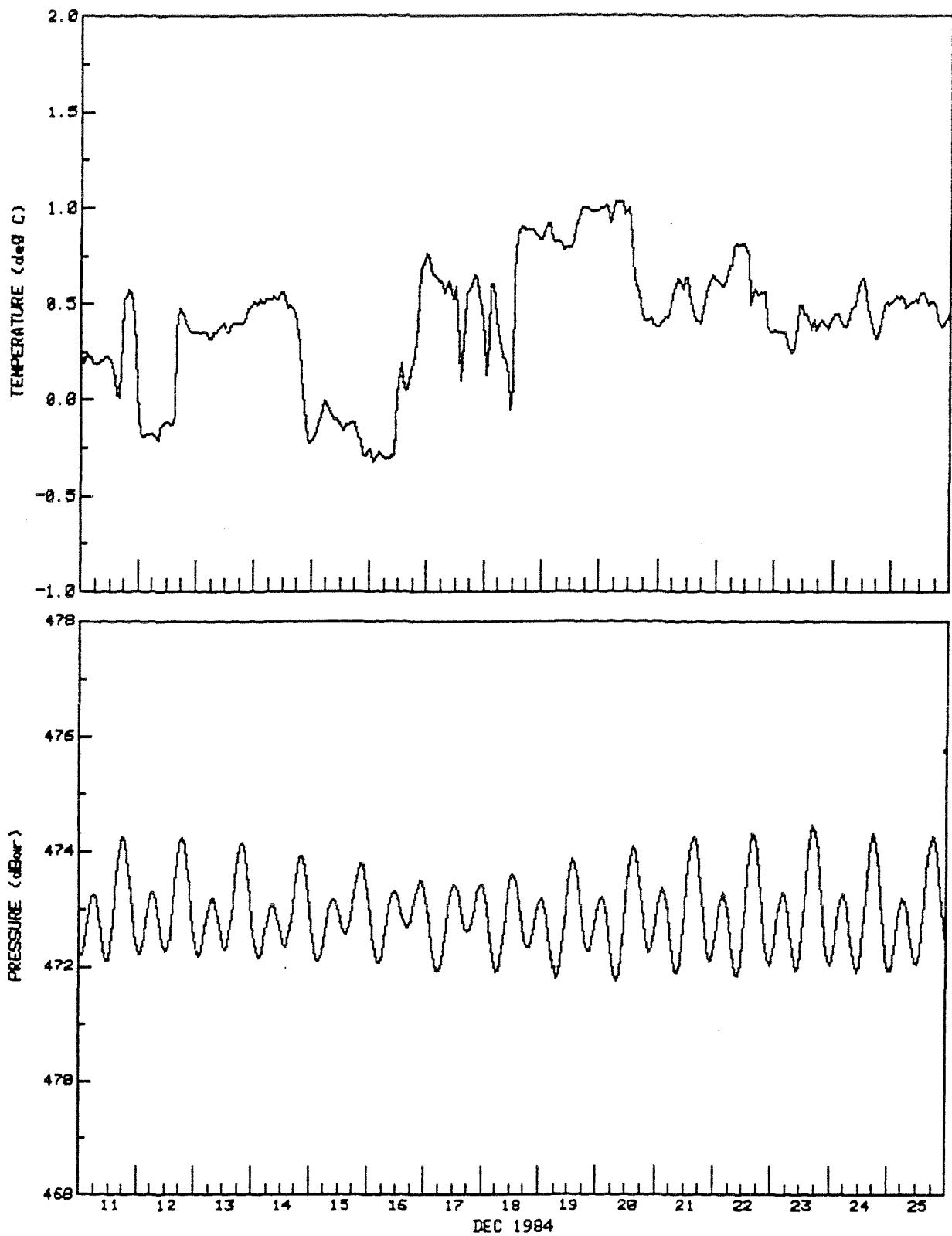
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

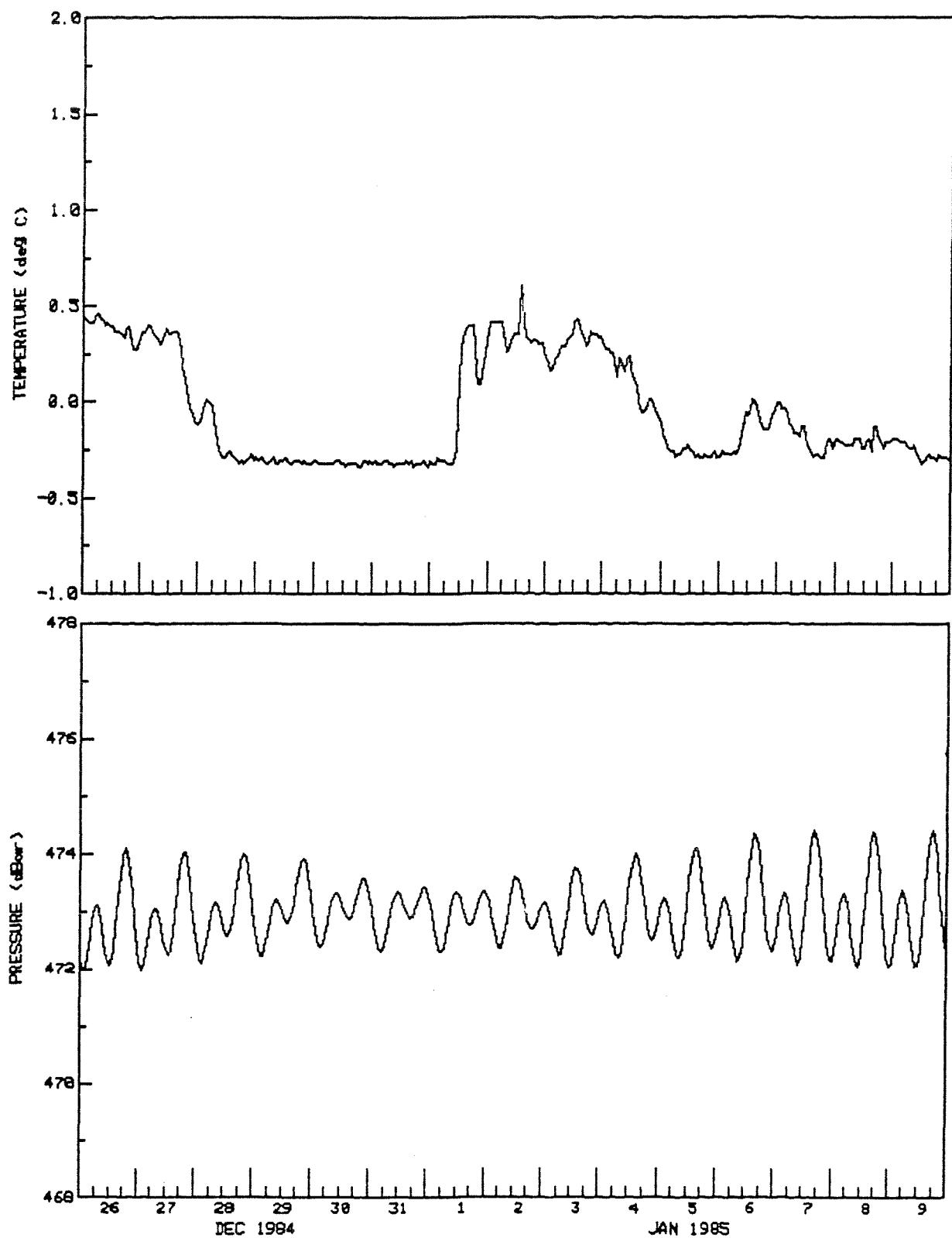
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

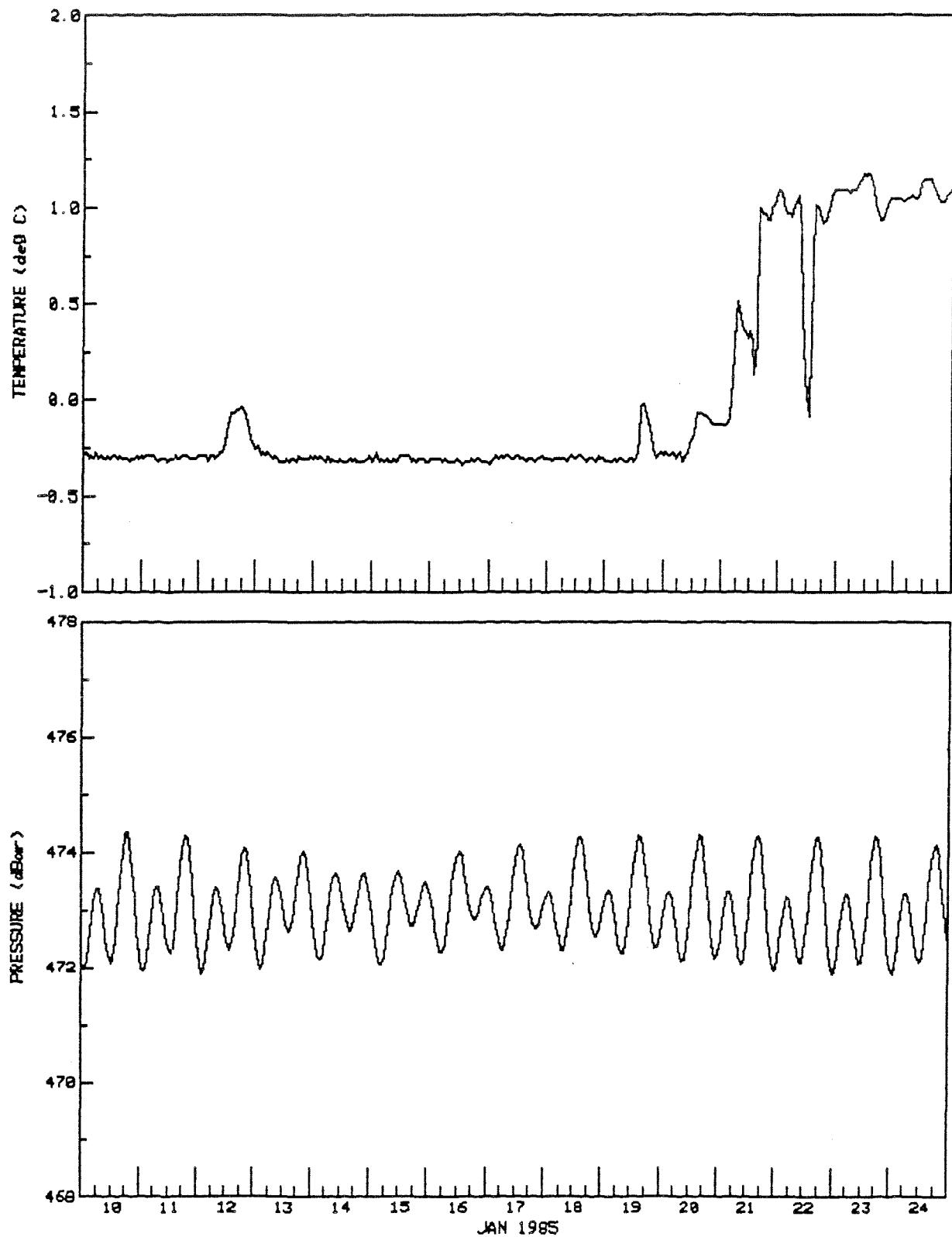
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

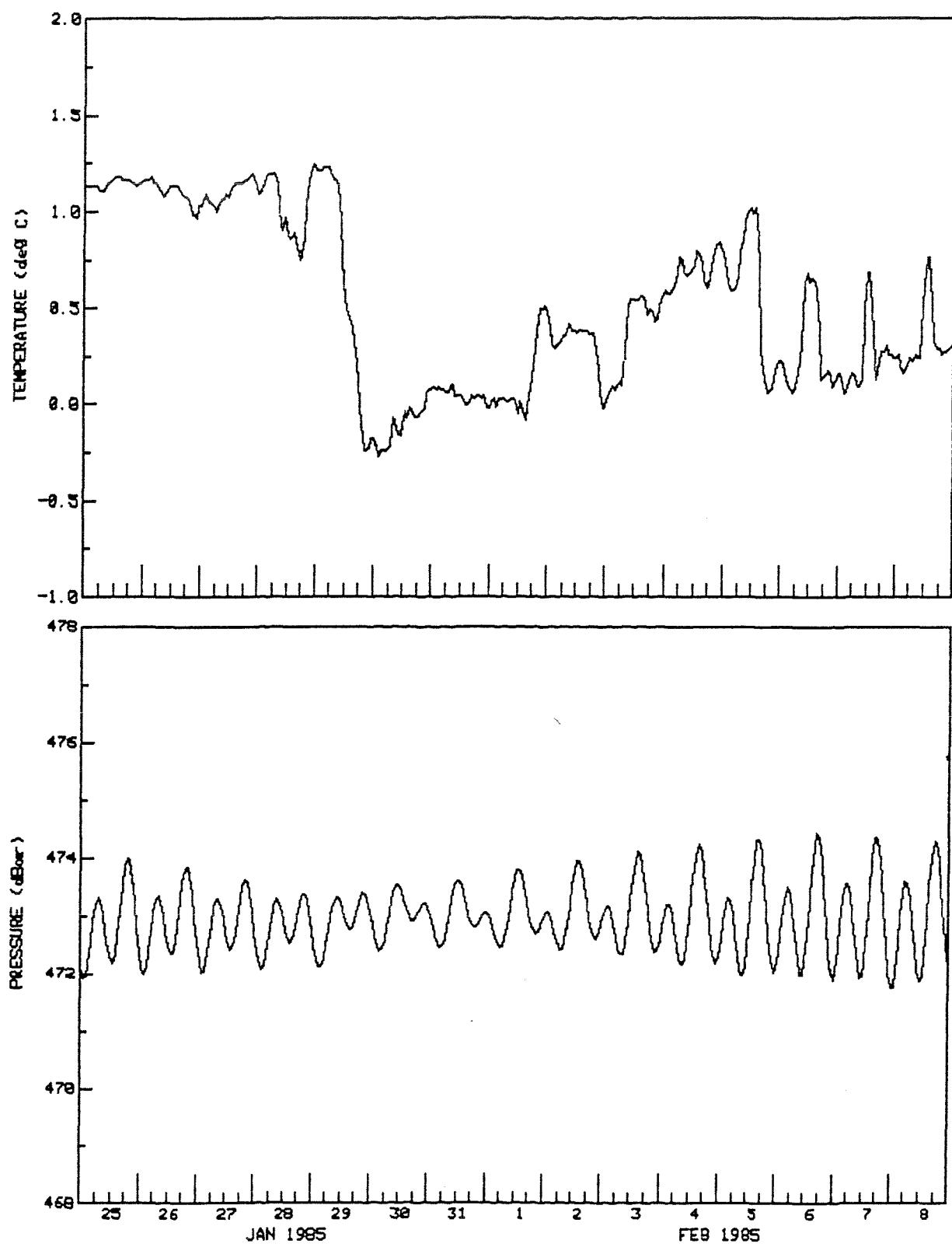
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

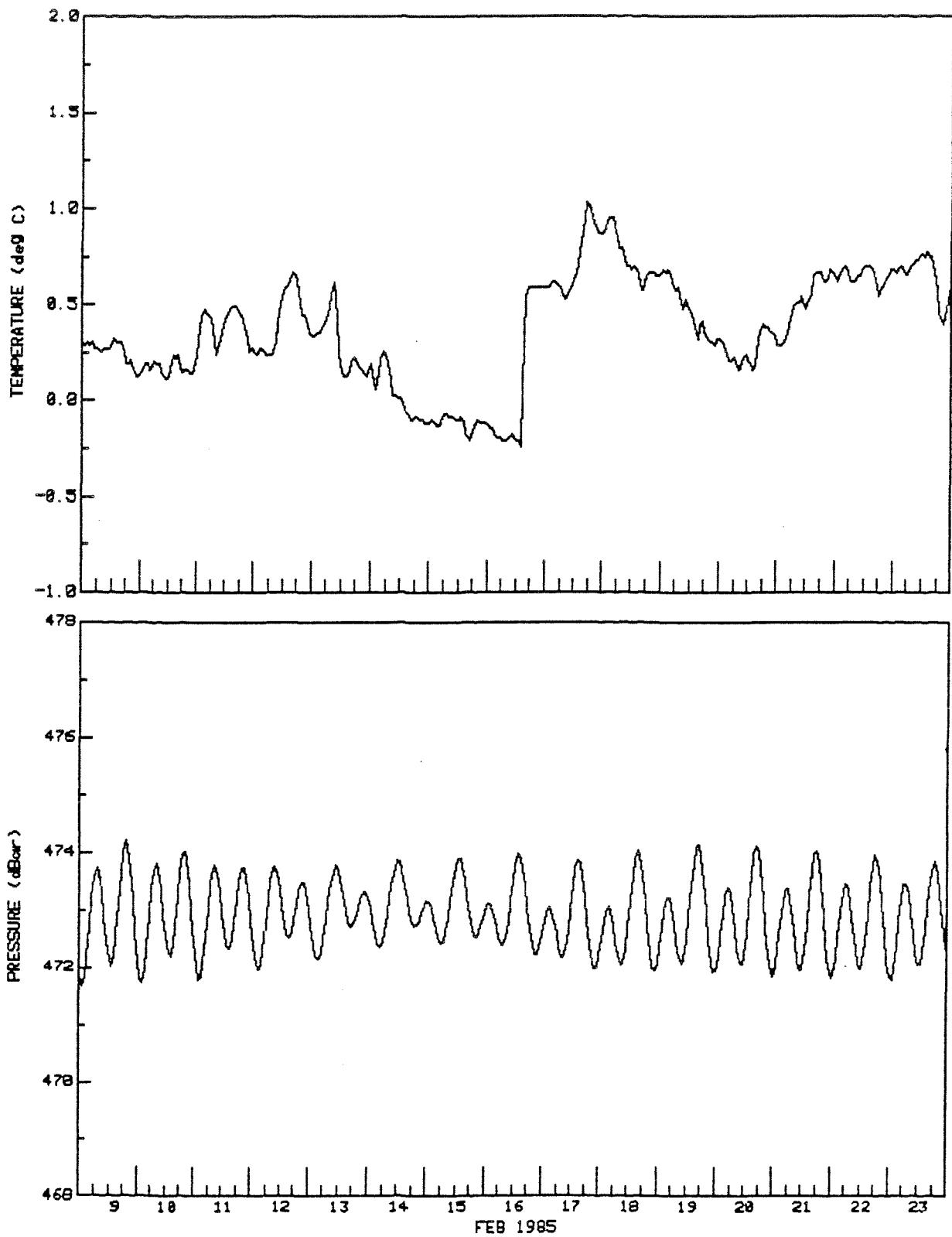
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DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

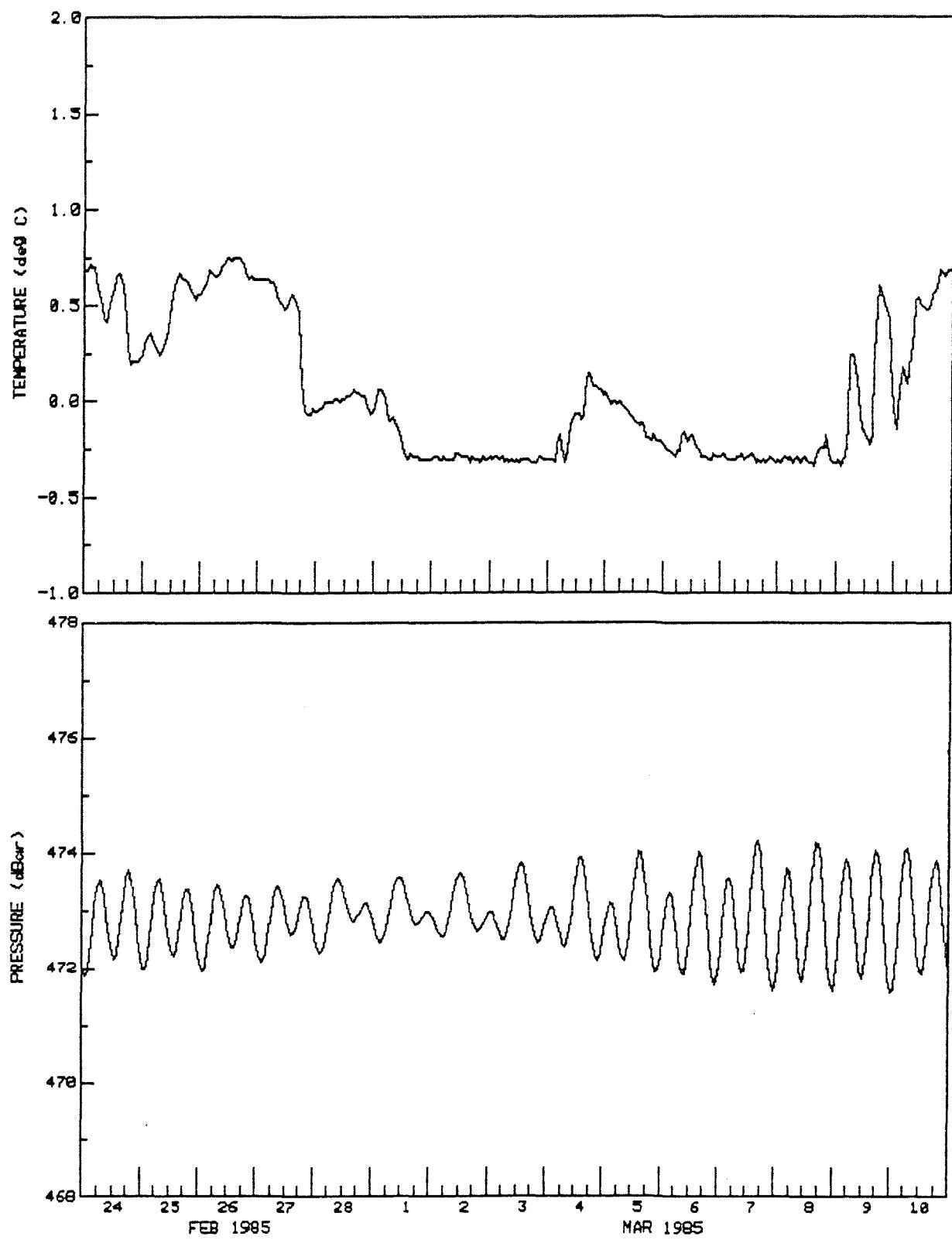
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DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

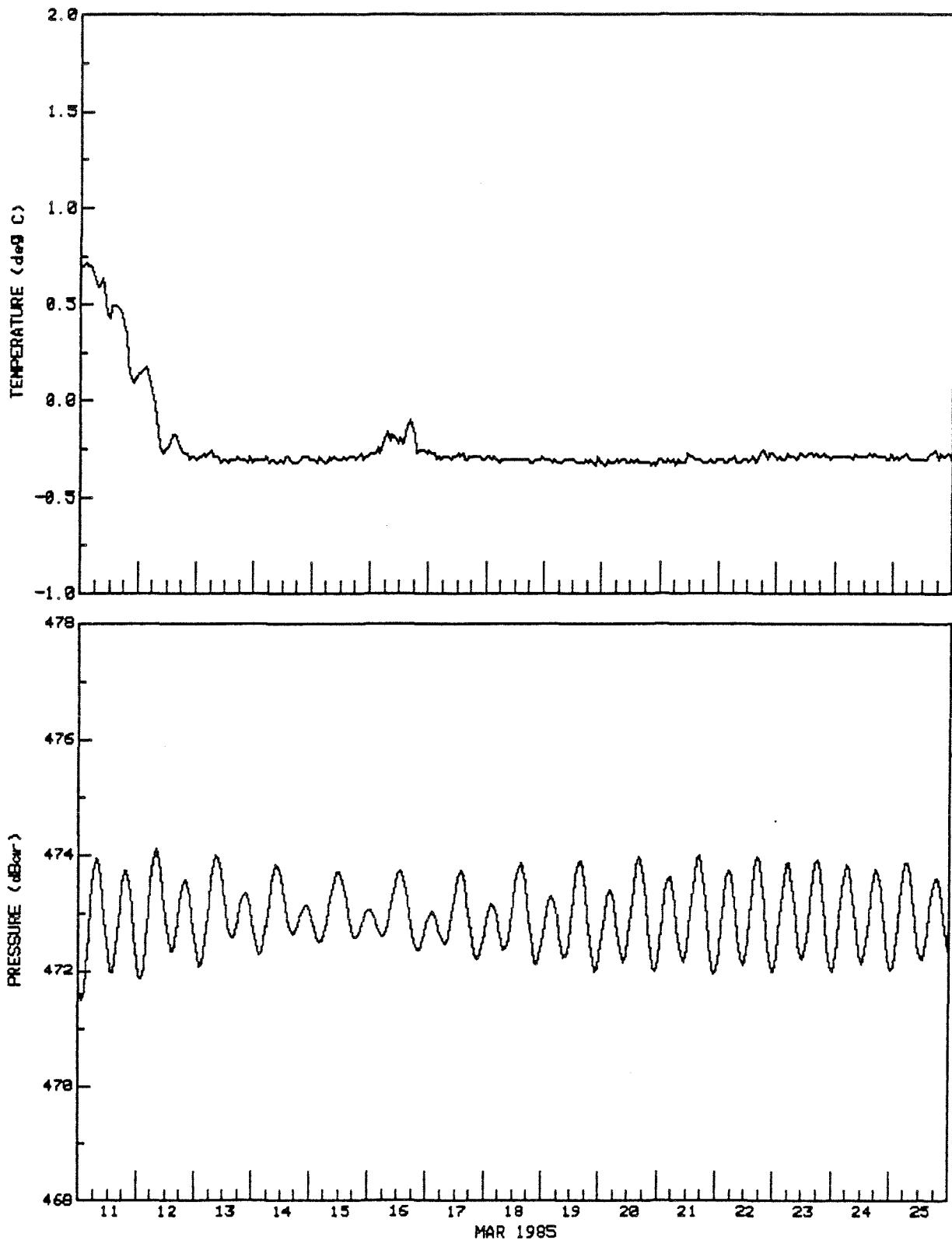
TAPE 436/1

DEPTH(m) 473
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

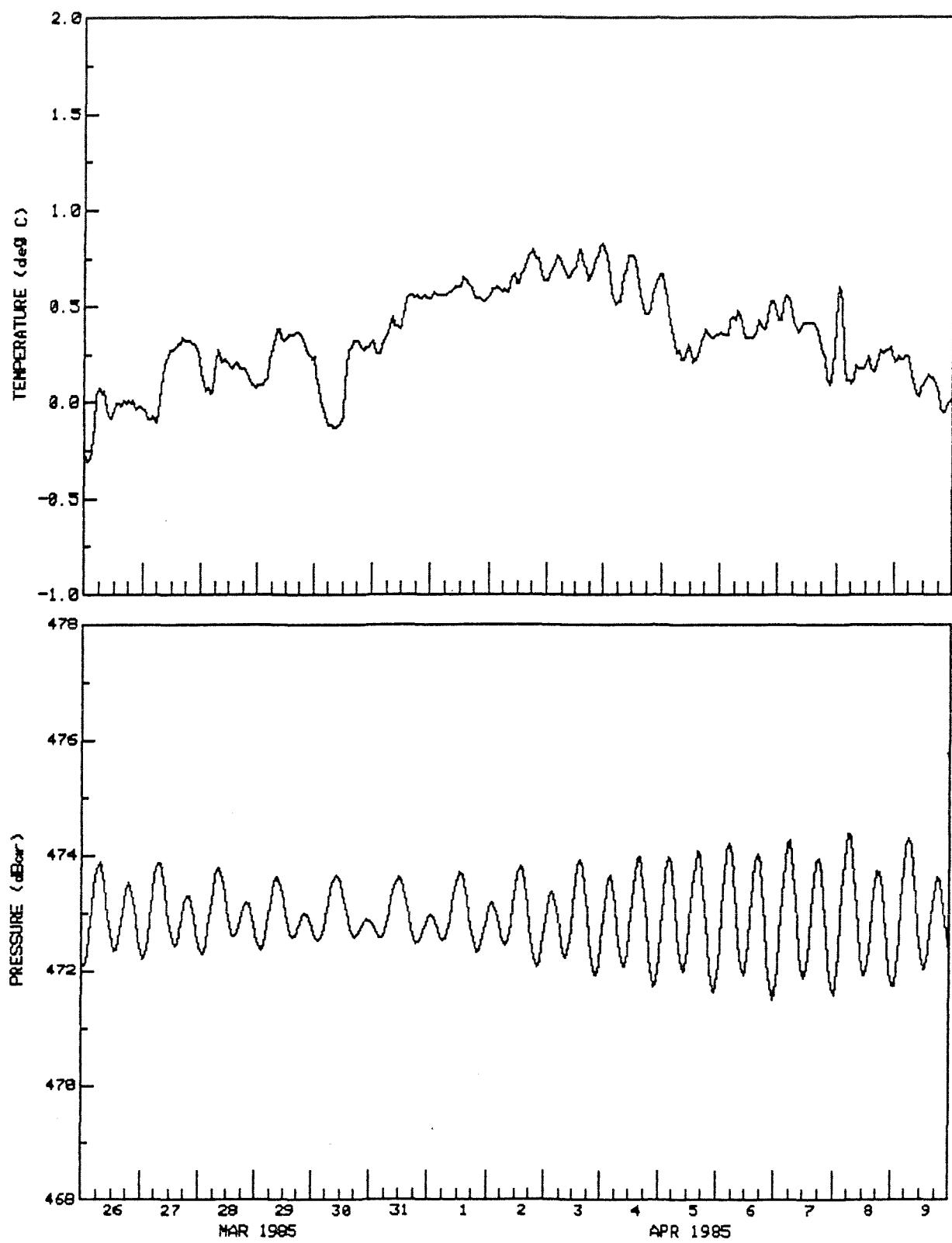
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N

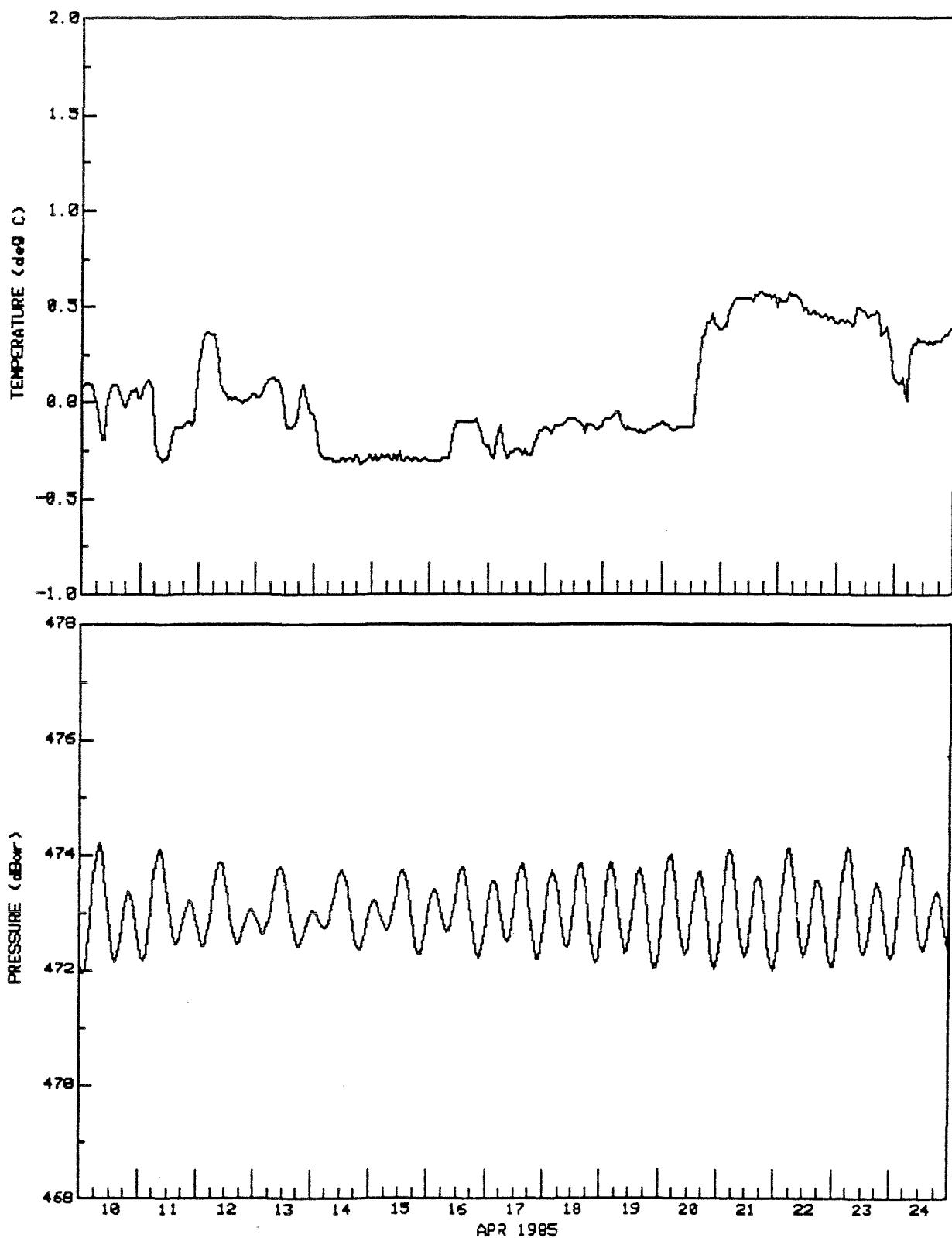
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DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

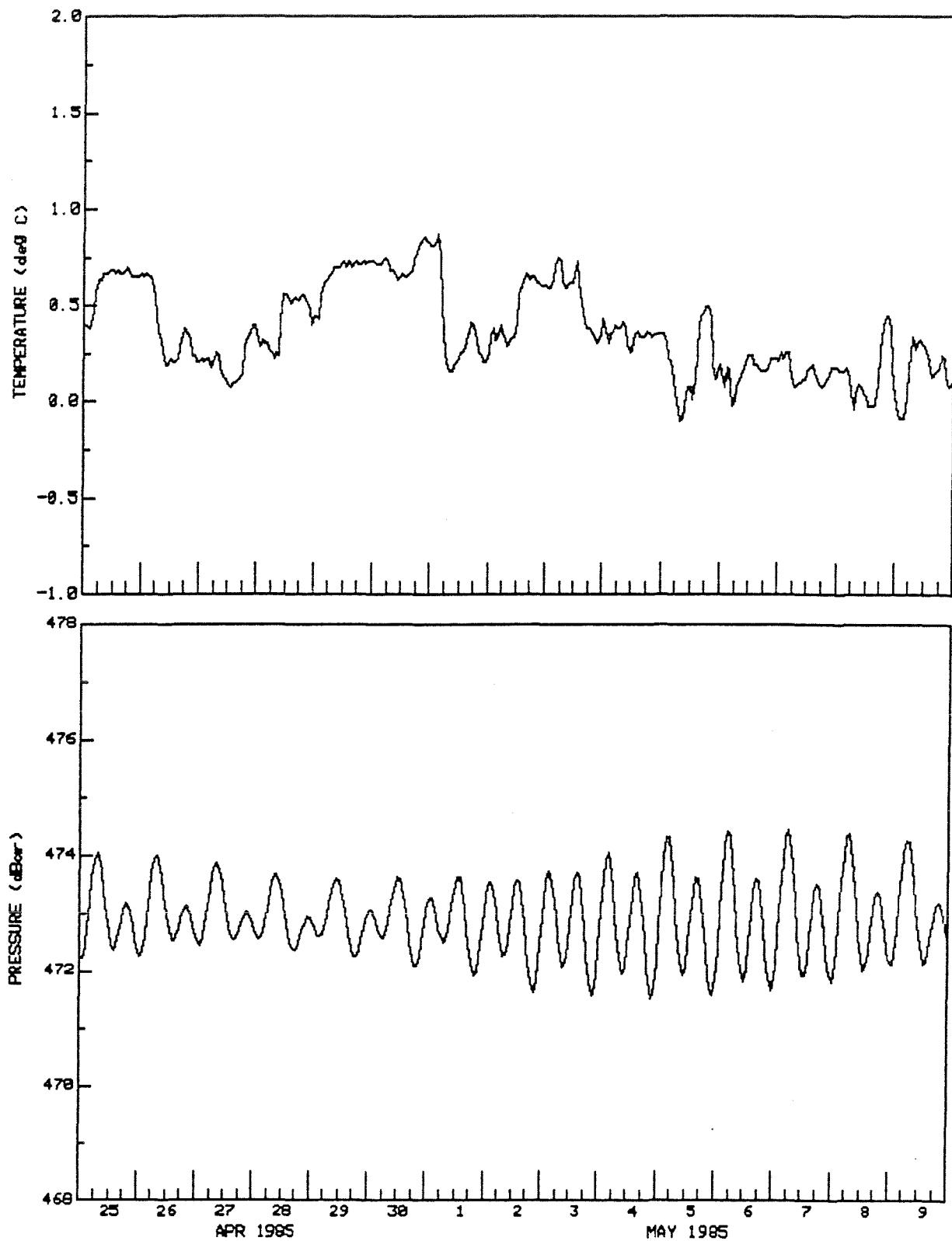
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DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

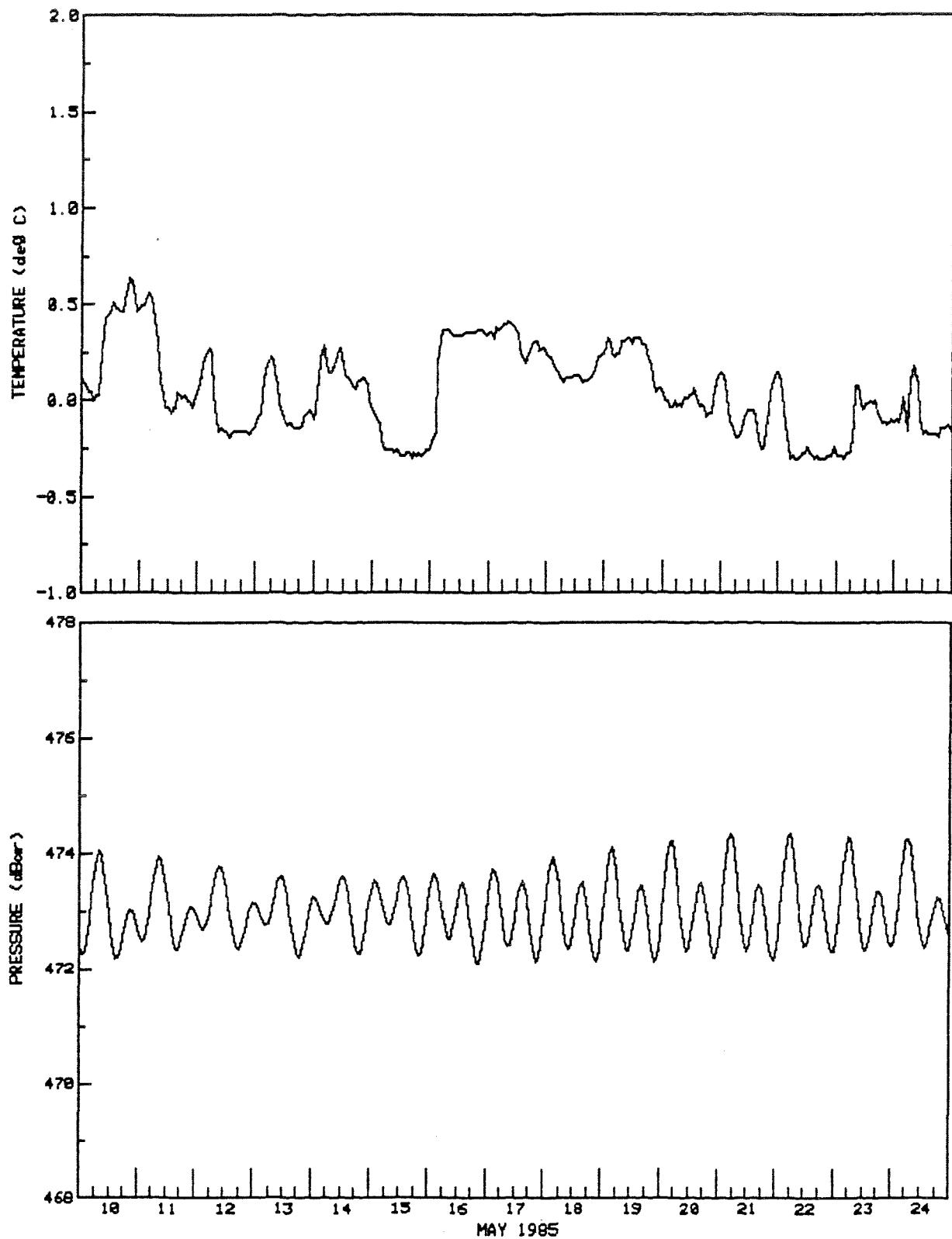
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DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

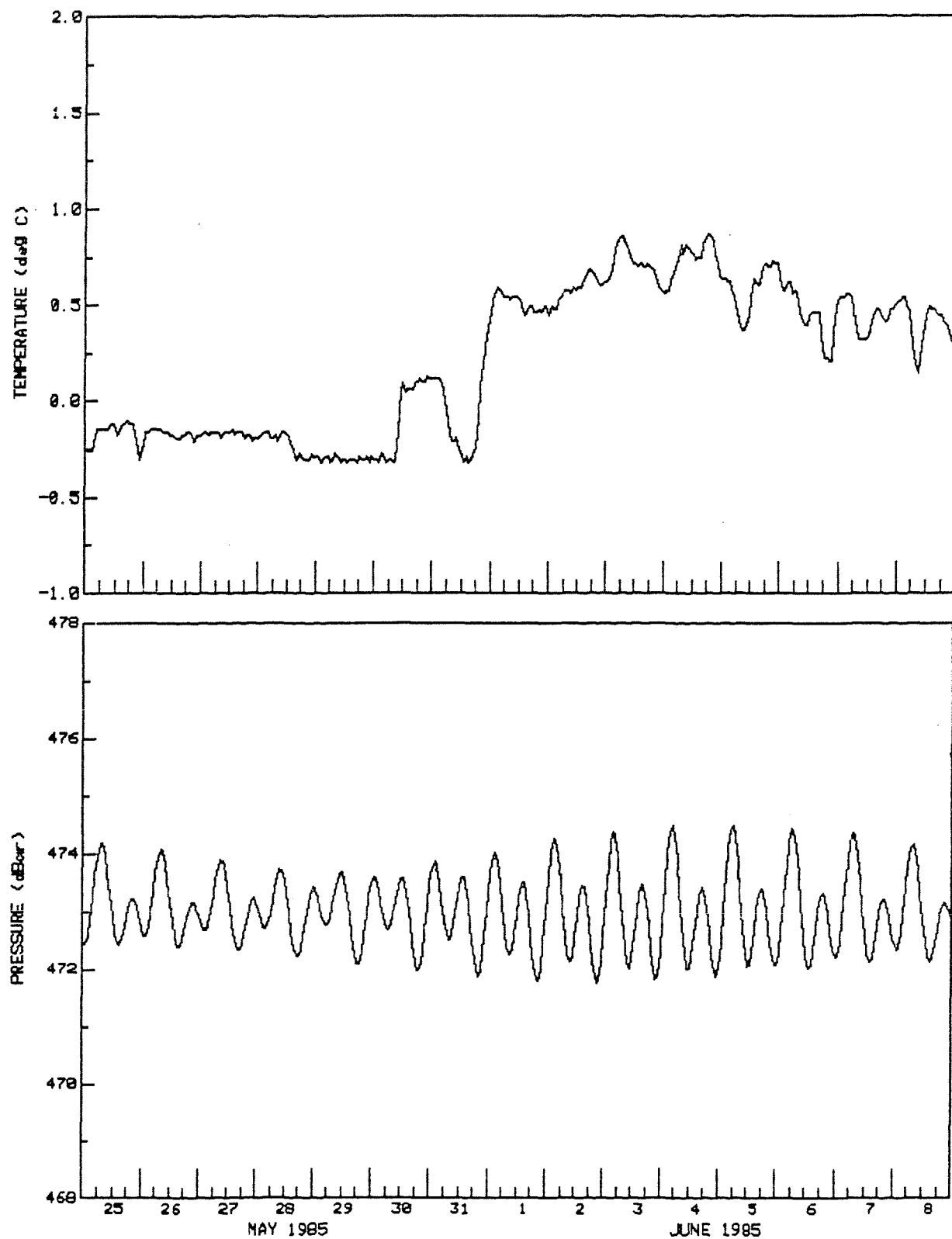
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DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

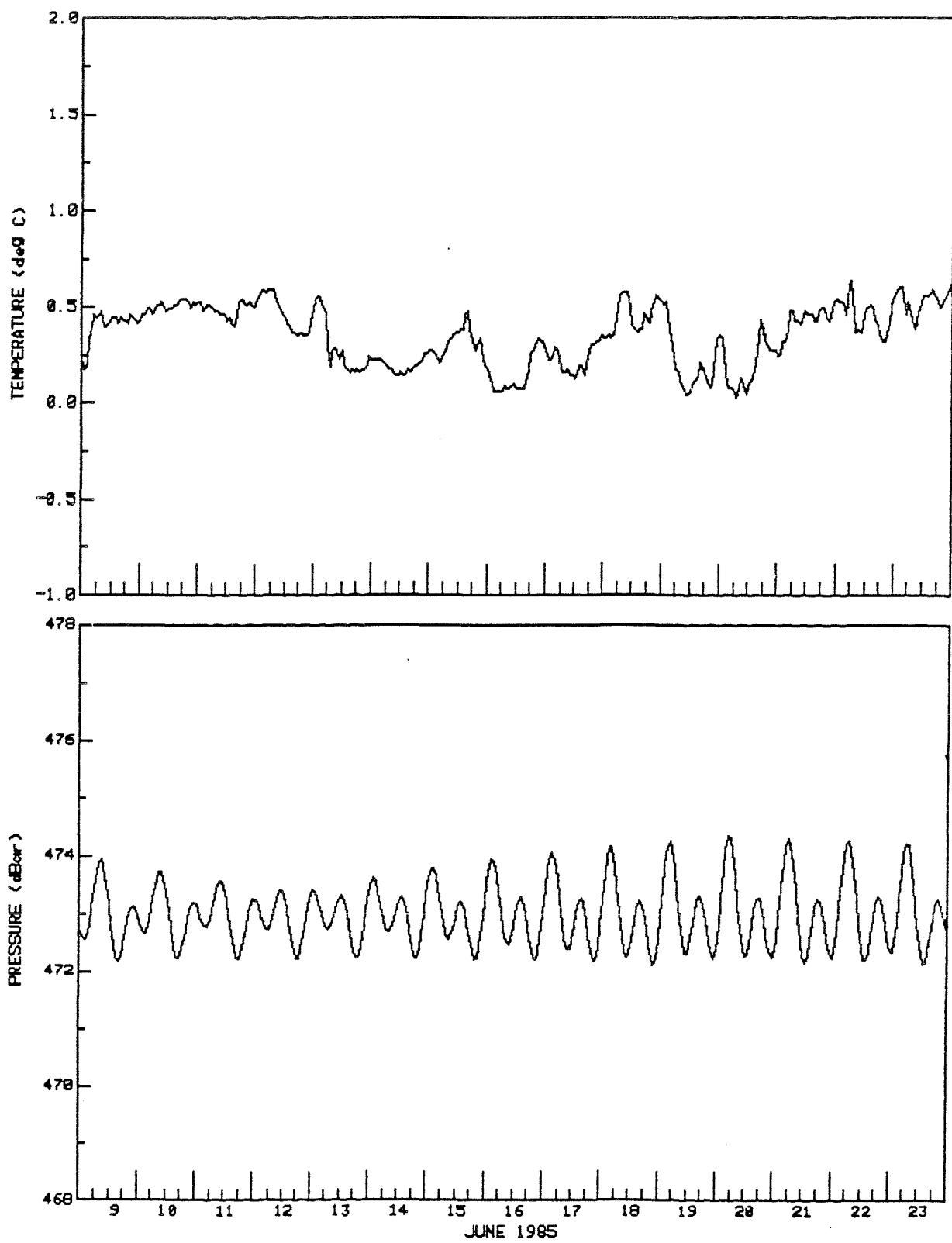
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

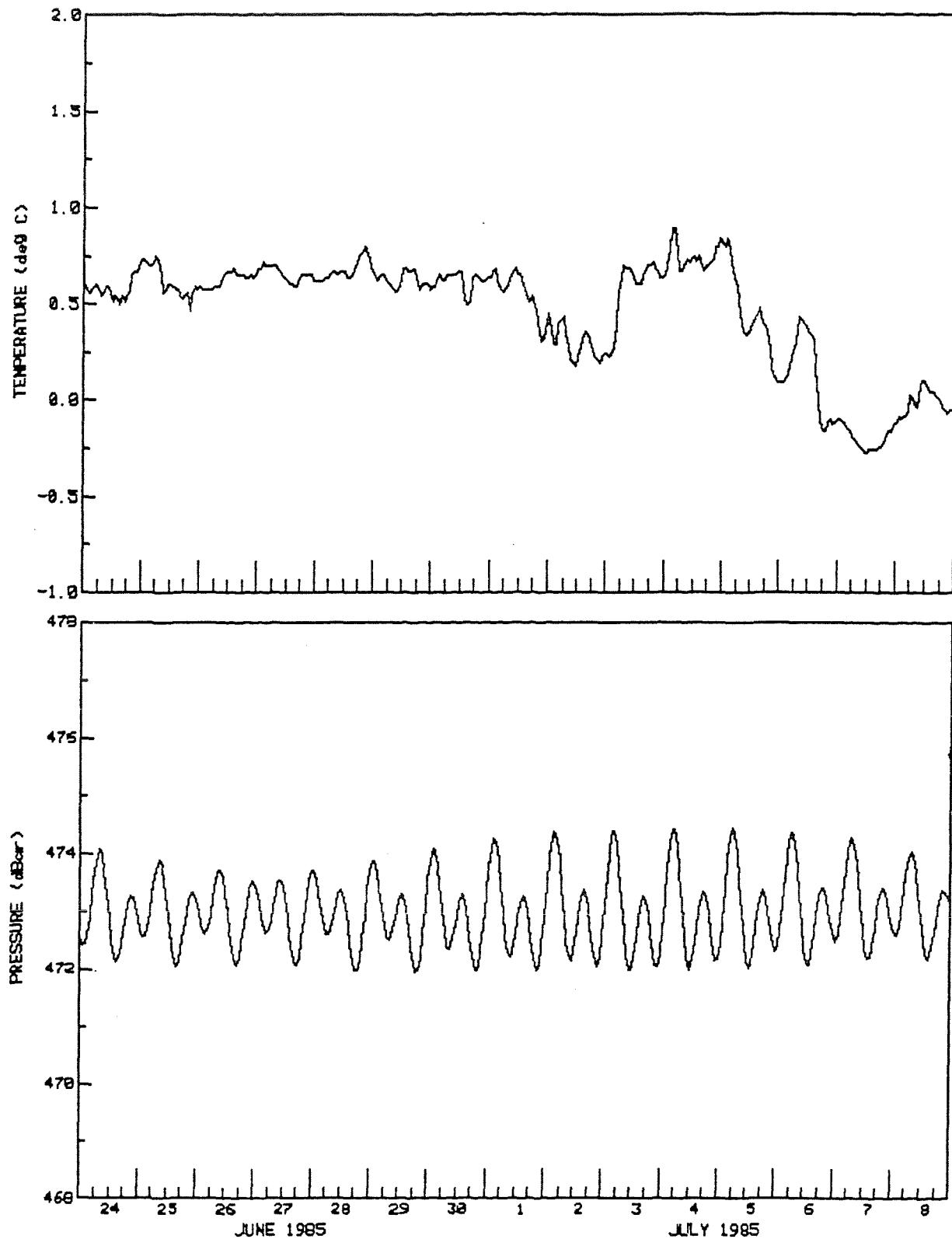
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DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

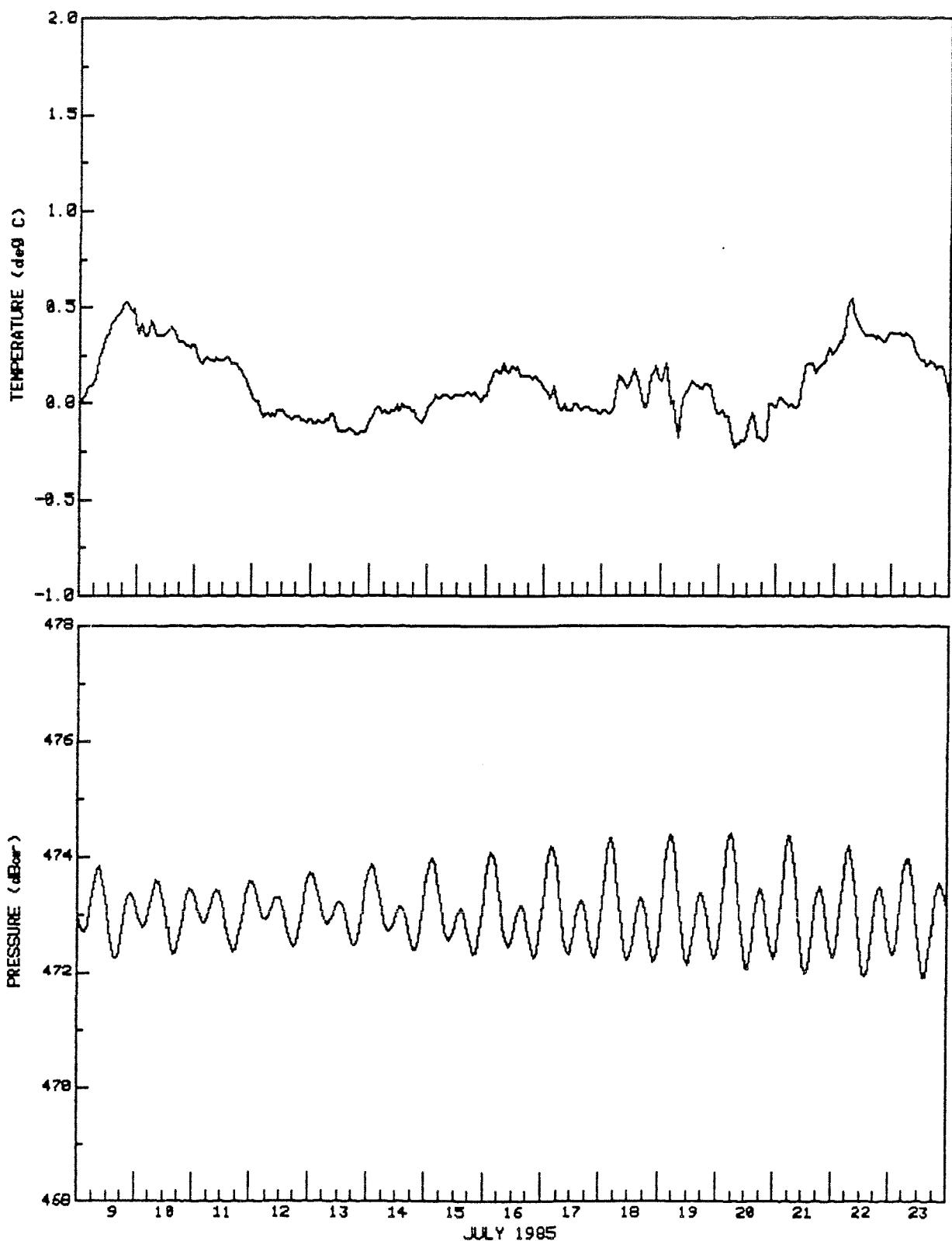
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DEPTH(m) 473
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DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

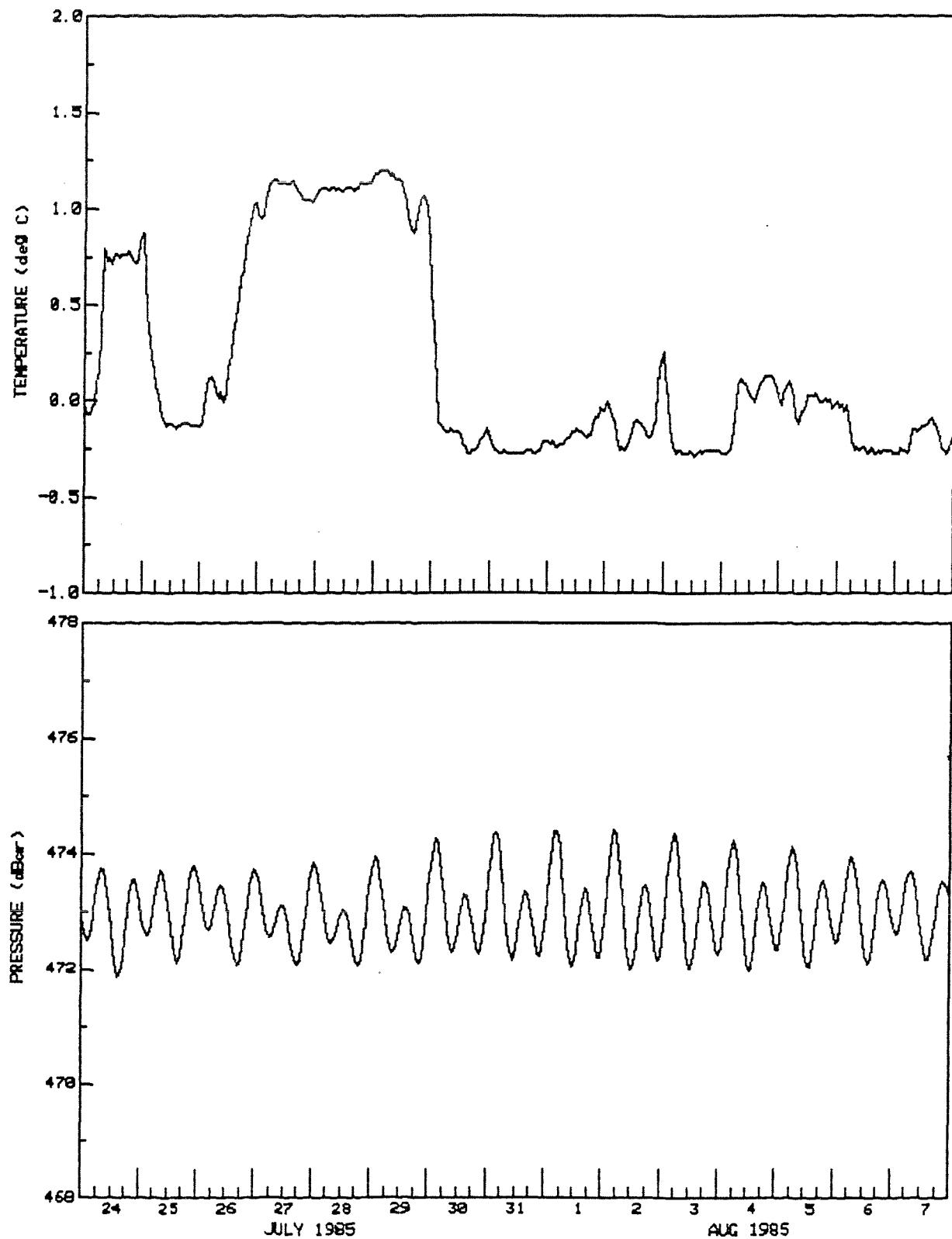
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DEPTH(m) 473
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

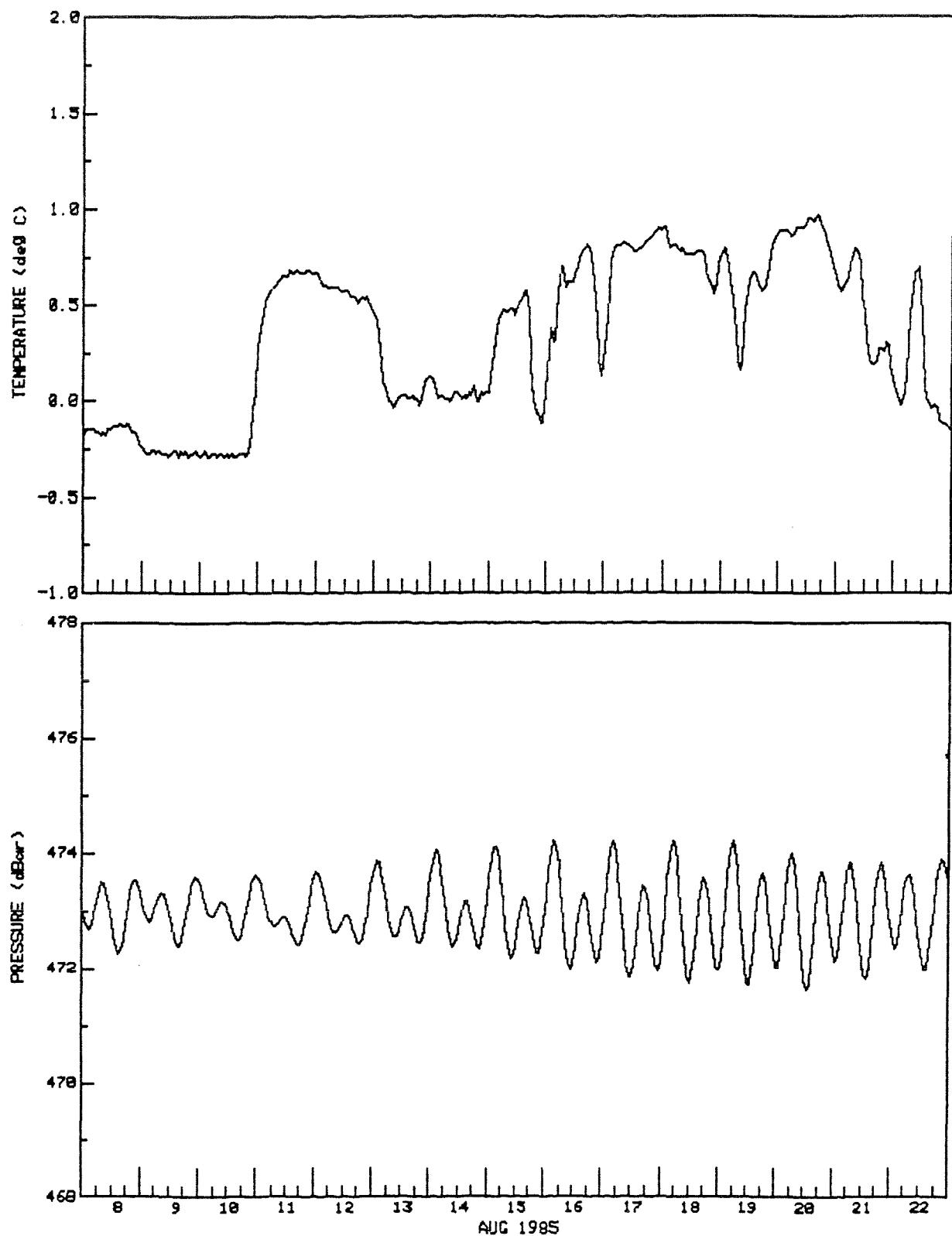
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DEPTH(m) 473
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

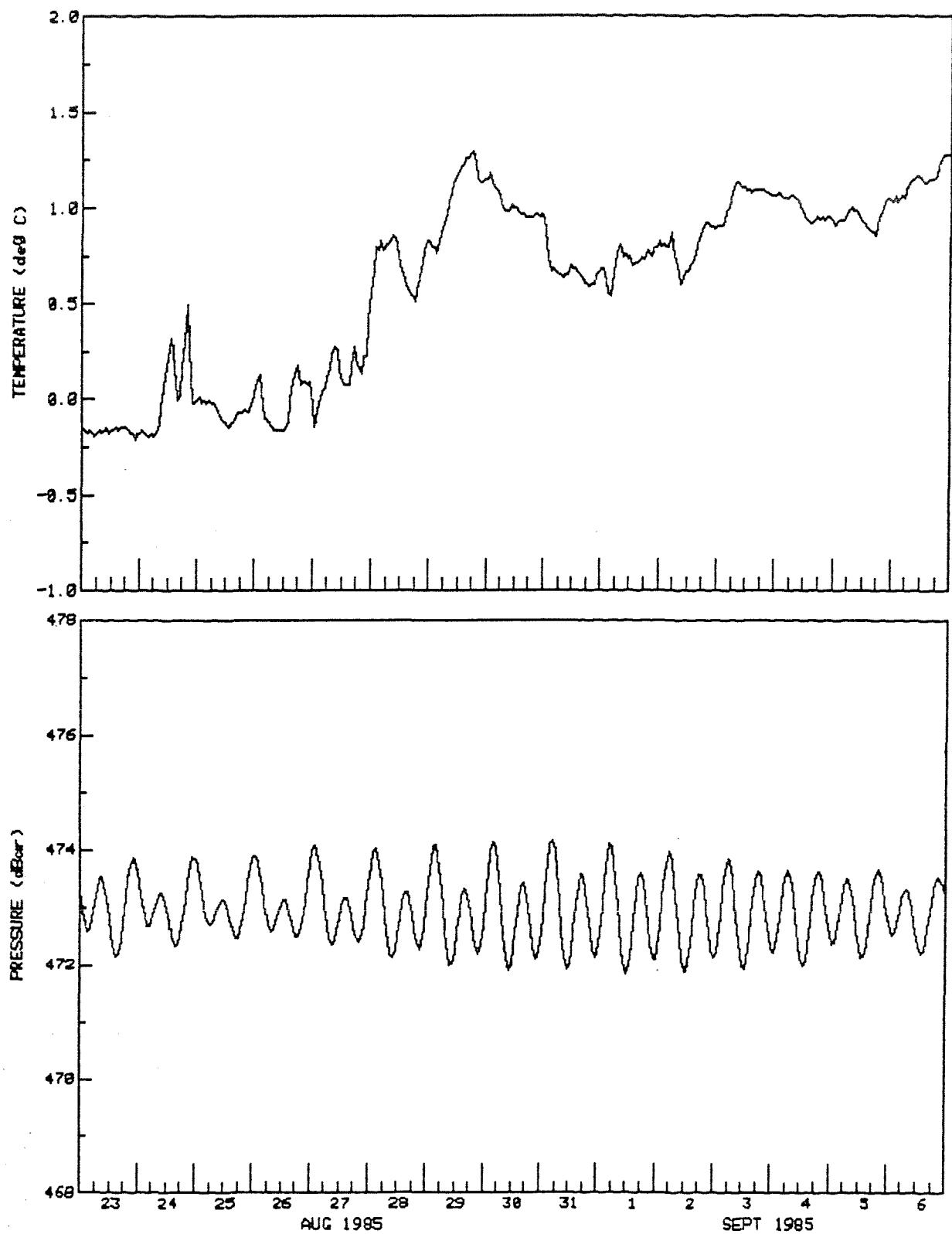
TAPE 436/1

DEPTH(m) 473
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

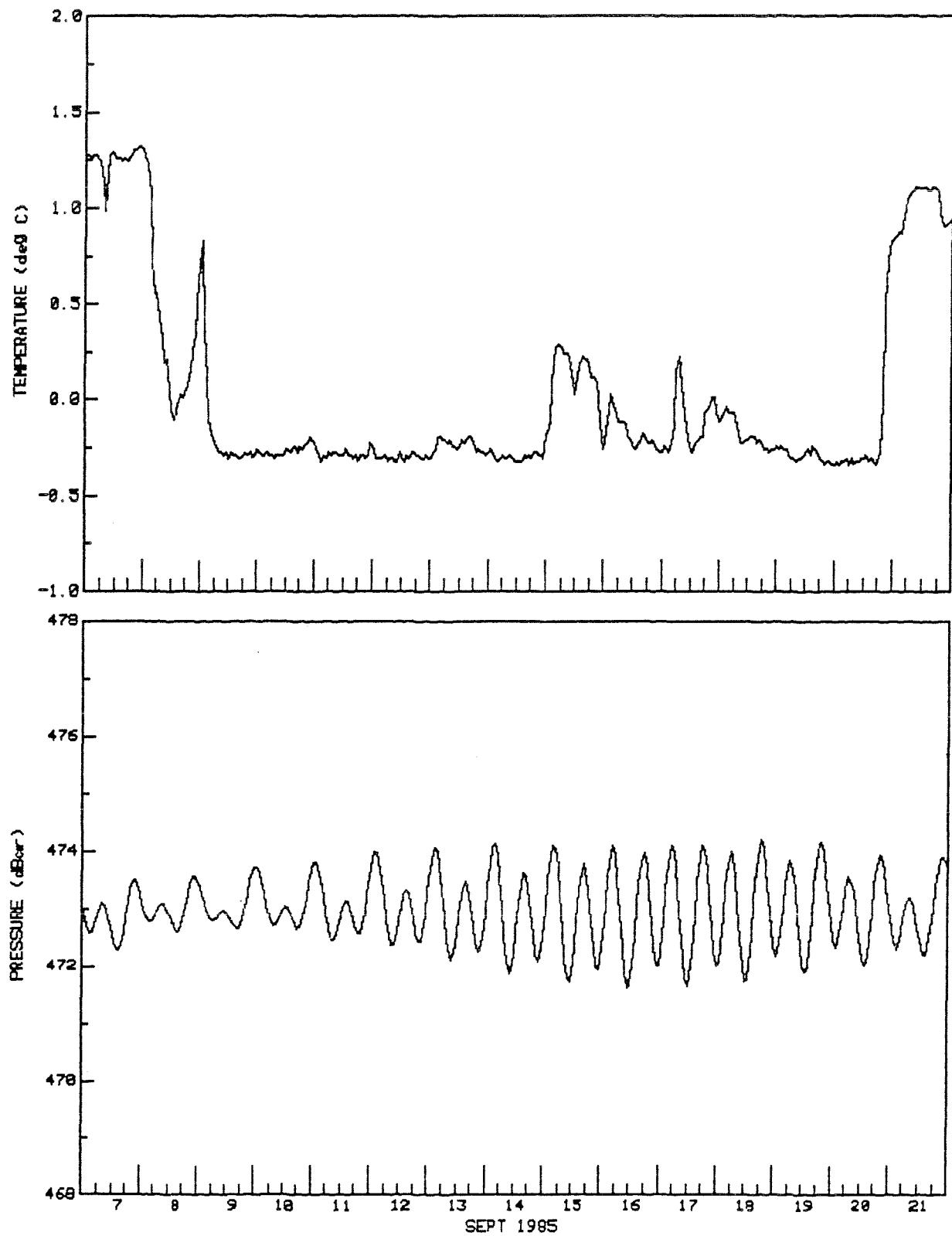
TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

TAPE 436/1

DEPTH(m) 473
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

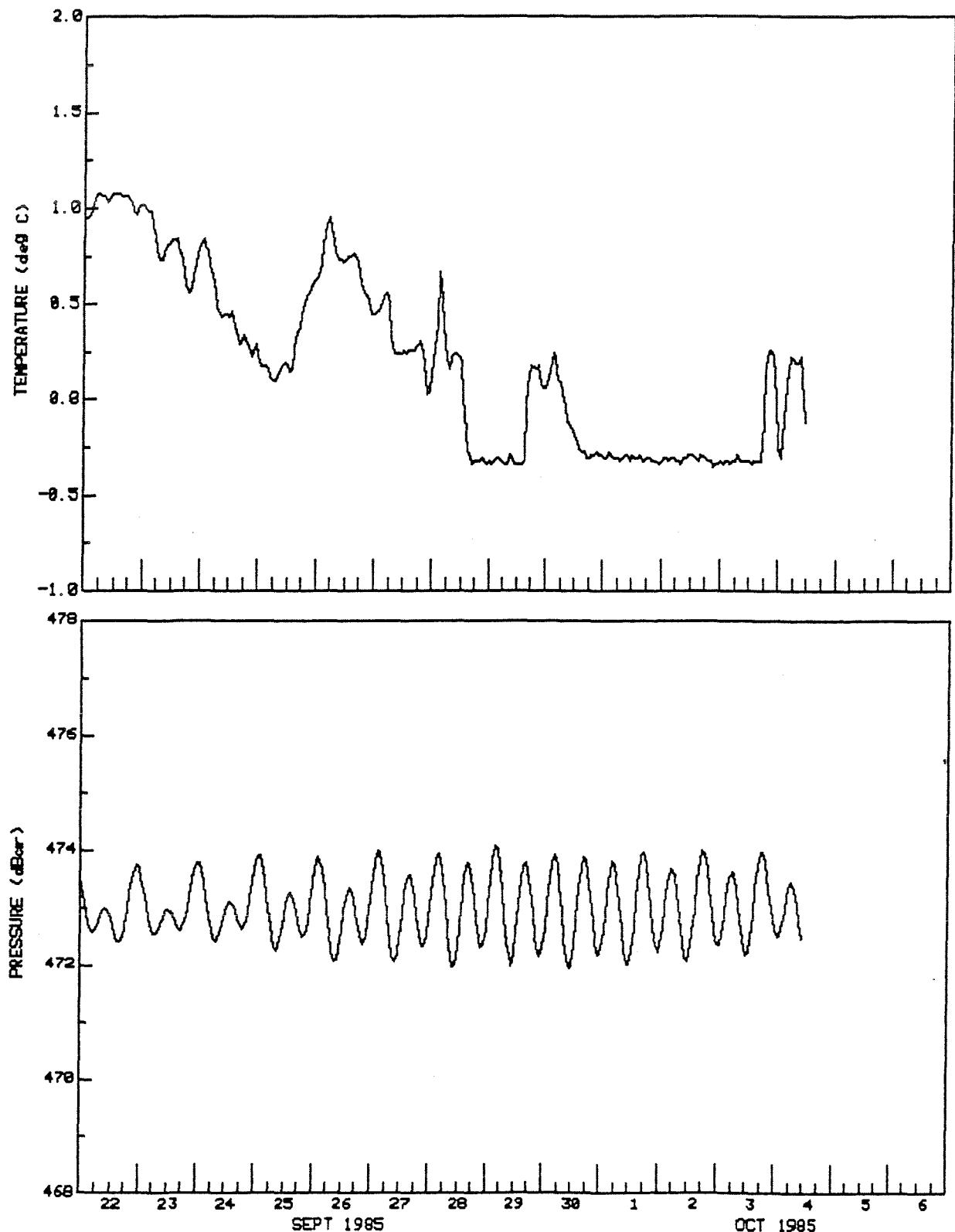
TIME SERIES OF TEMPERATURE AND PRESSURE
NORTHERN BAFFIN BAY TAPE 436/1 DEPTH(m) 473
75 25' N 74 33' W AANDERAA WLRS TYPE DESPIKED
AANDERAA WLRS DT(min) 60



TIME SERIES OF TEMPERATURE AND PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

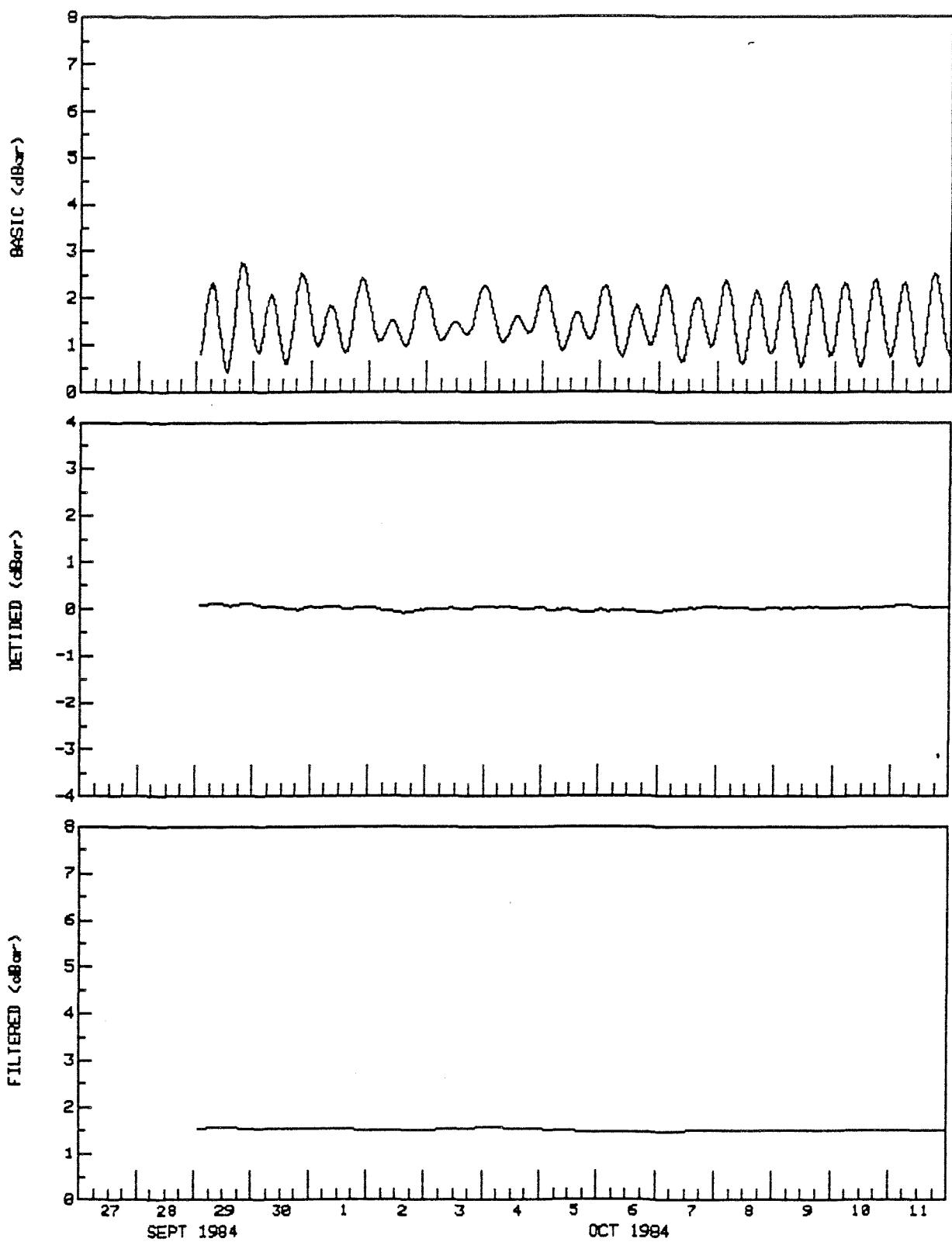
TAPE 436/1

DEPTH(m) 473
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DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

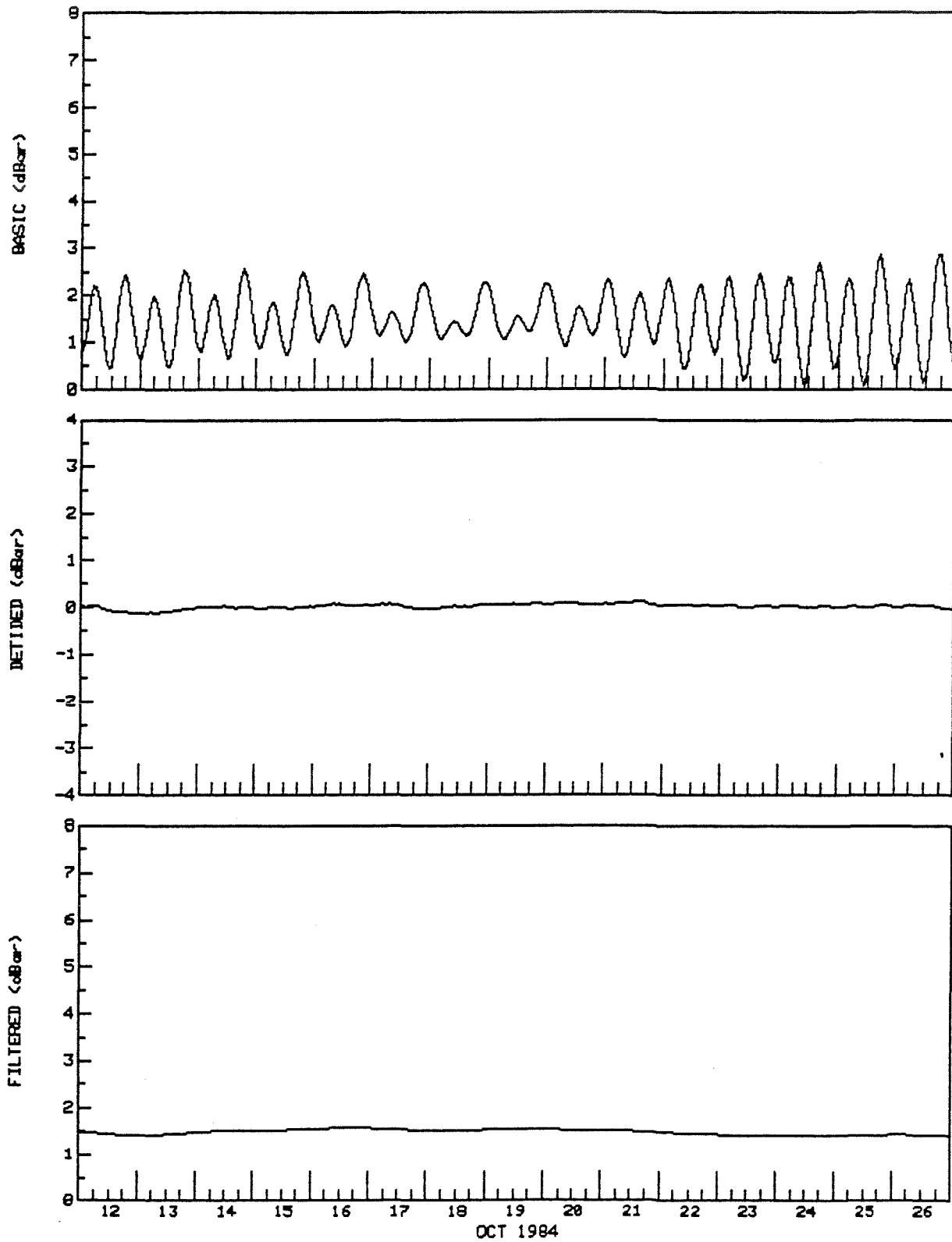
TAPE 436/1

DEPTH(m) 472
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DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N

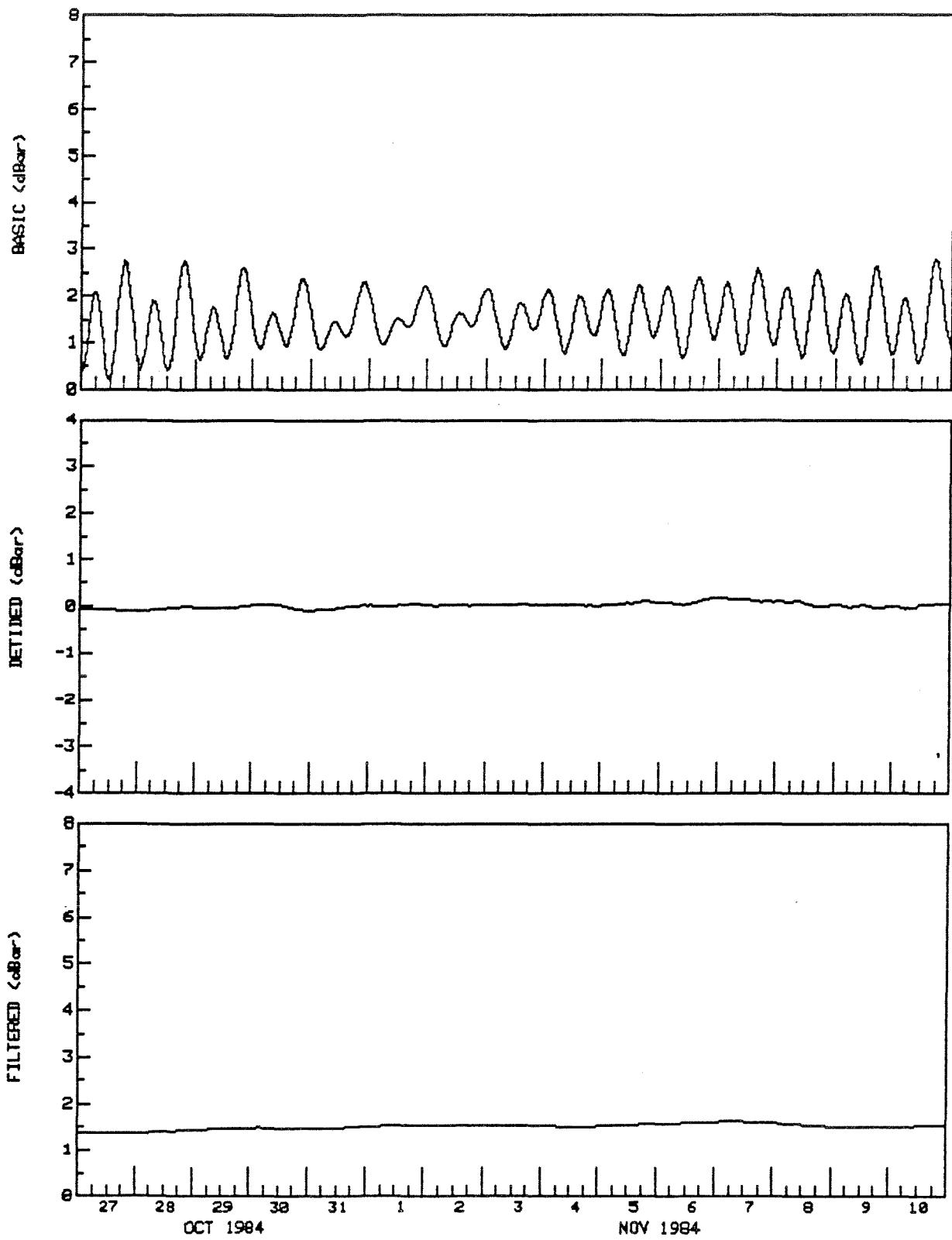
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DEPTH(m) 472
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DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

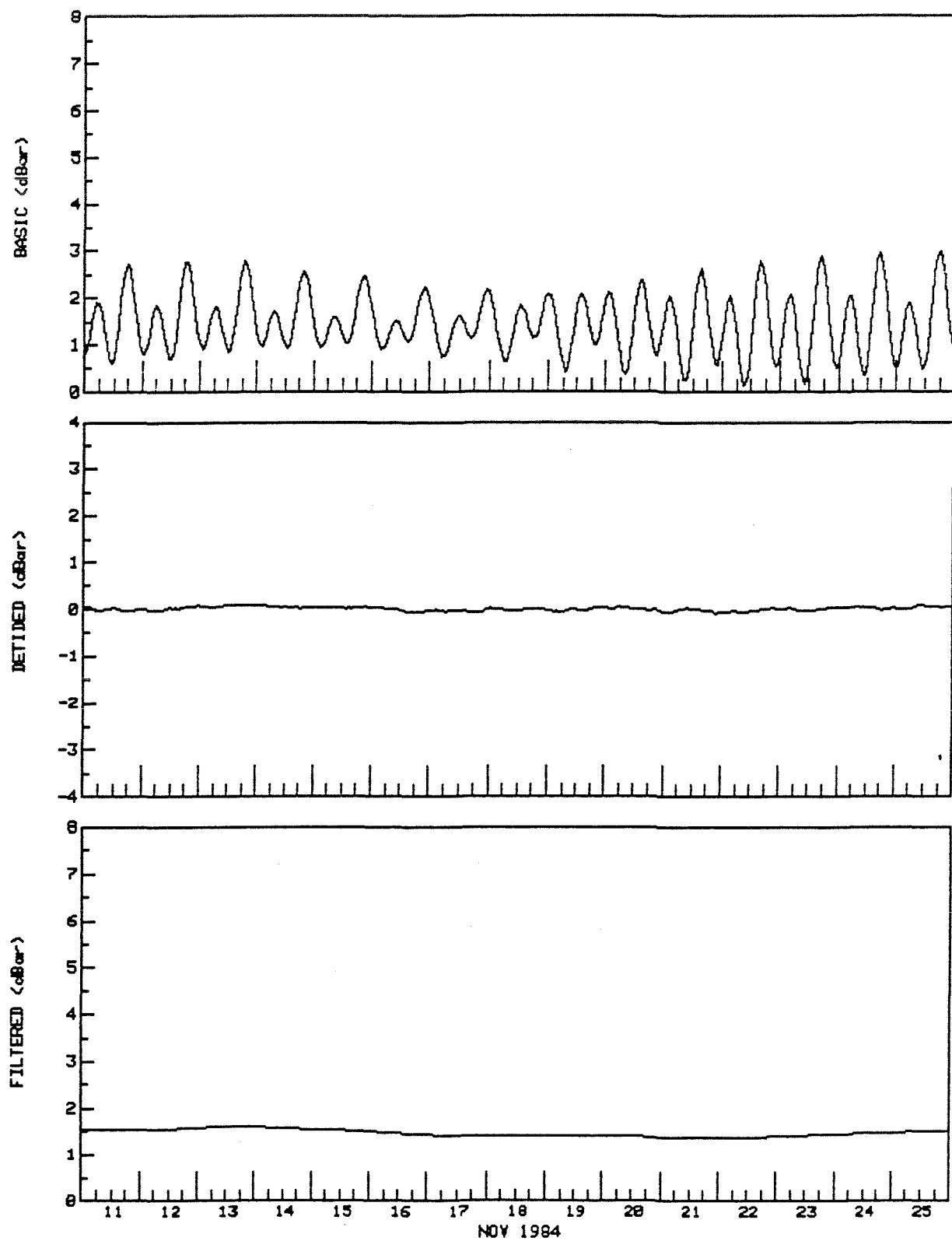
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

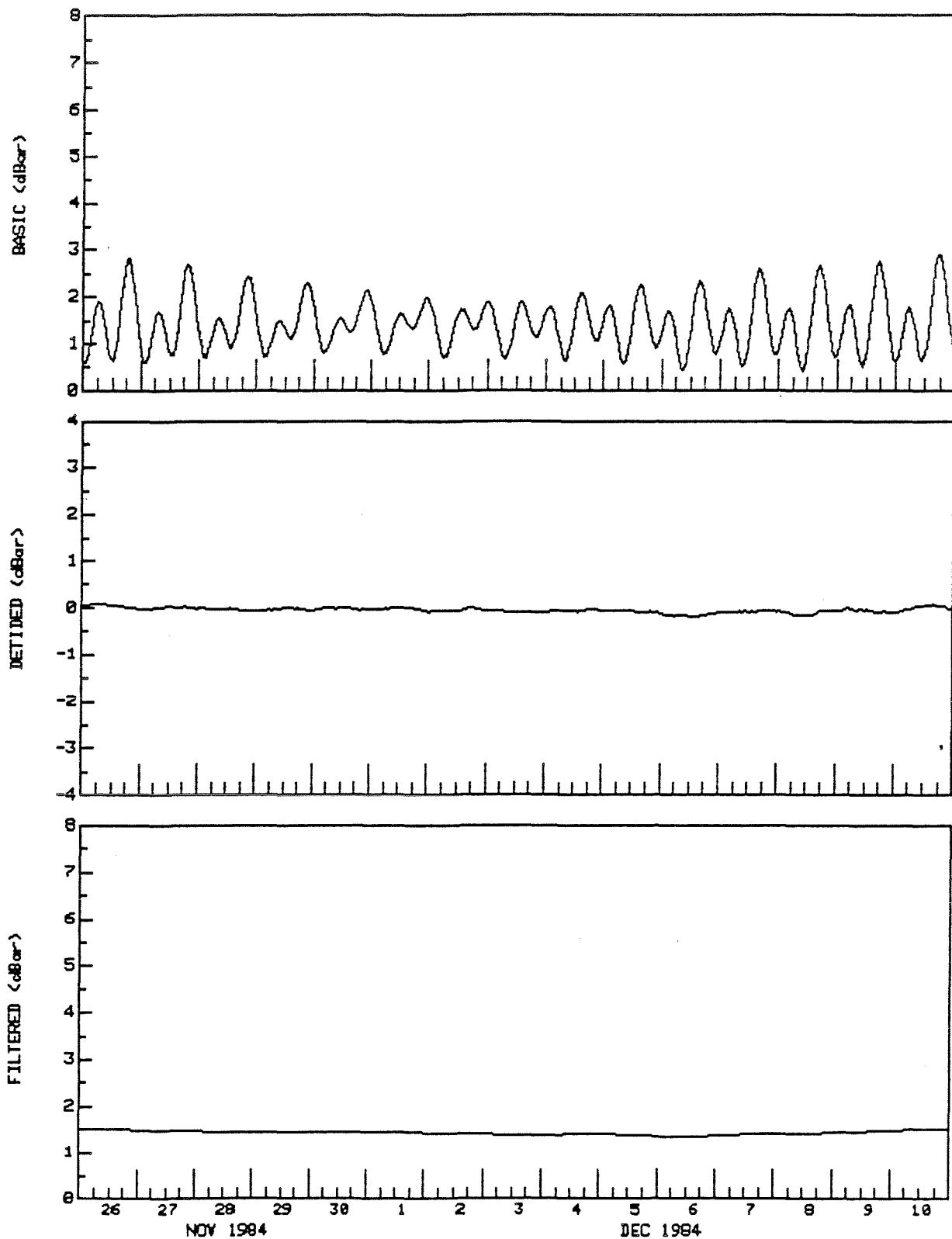
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

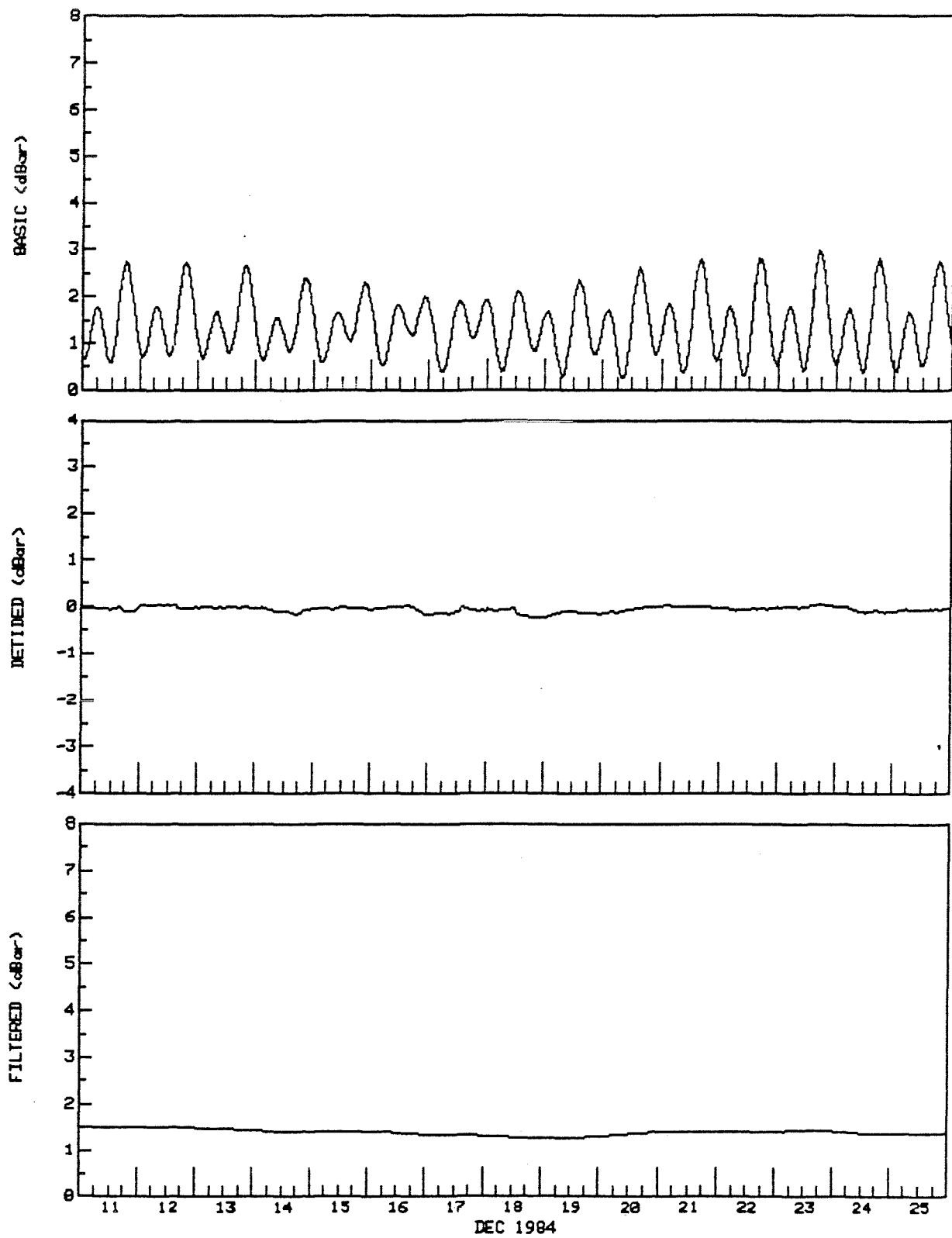
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

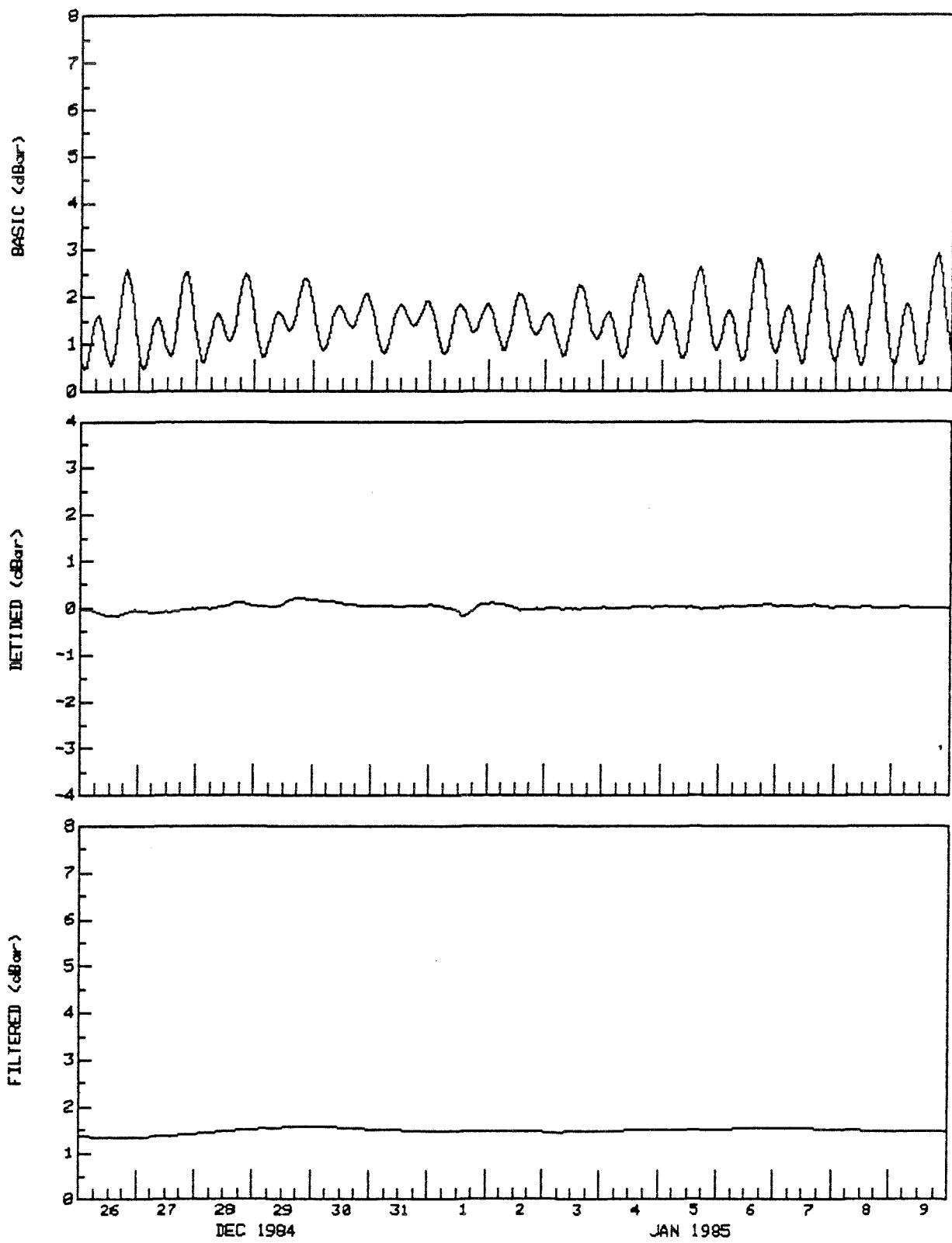
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

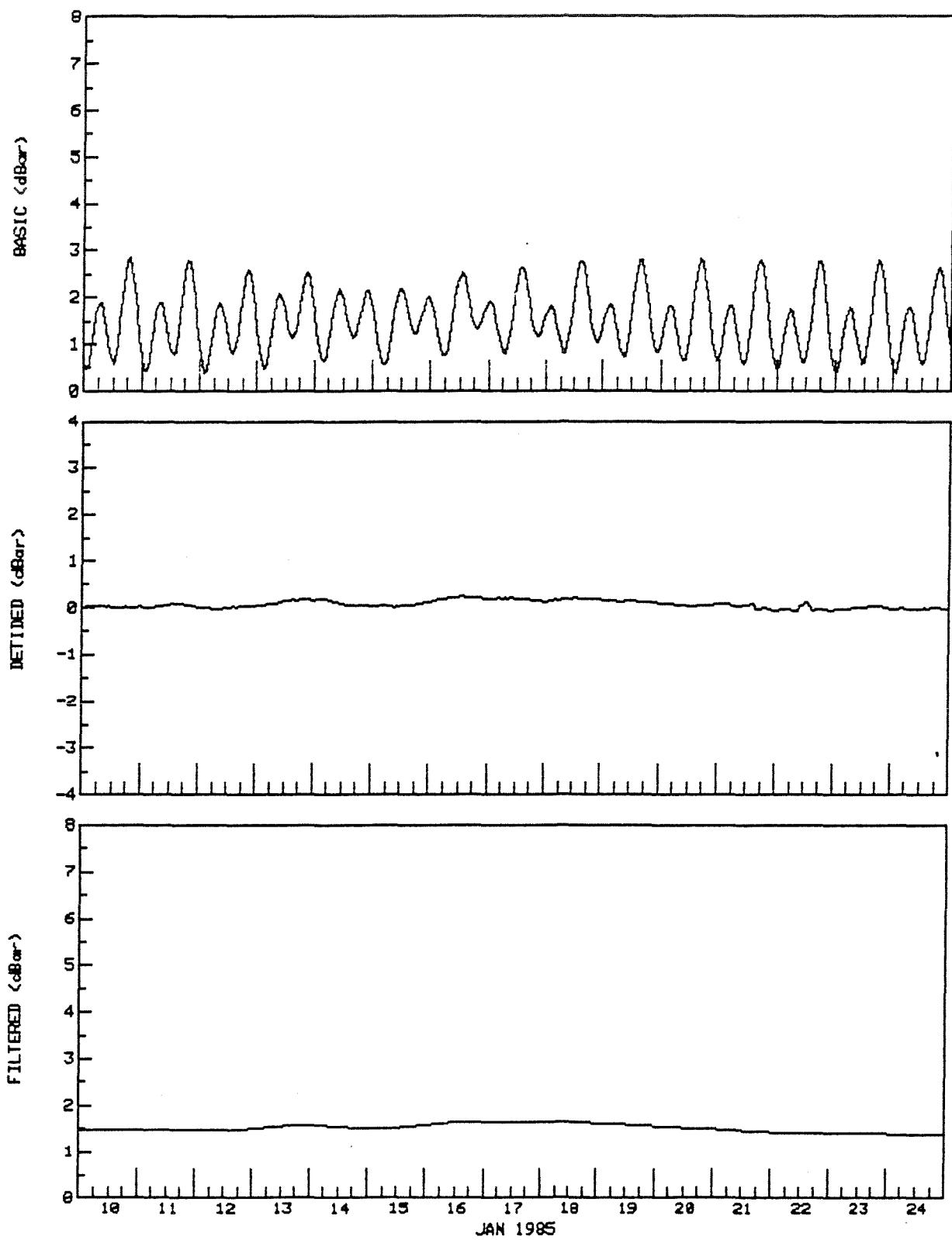
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
NORTHERN BAFFIN BAY TAPE 436/1 DEPTH(m) 472 TYPE DESPIKED
75 25' N 74 33' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

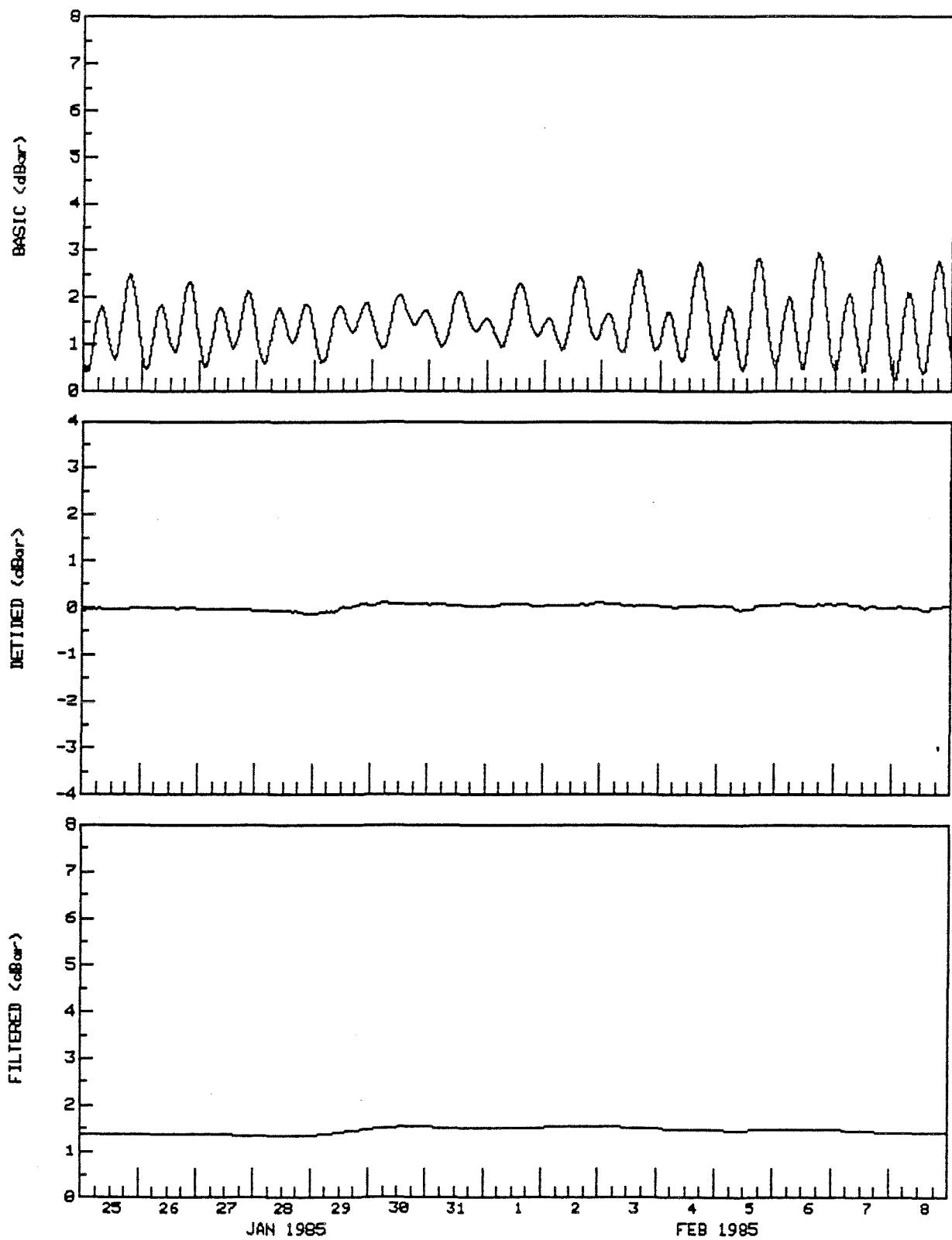
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

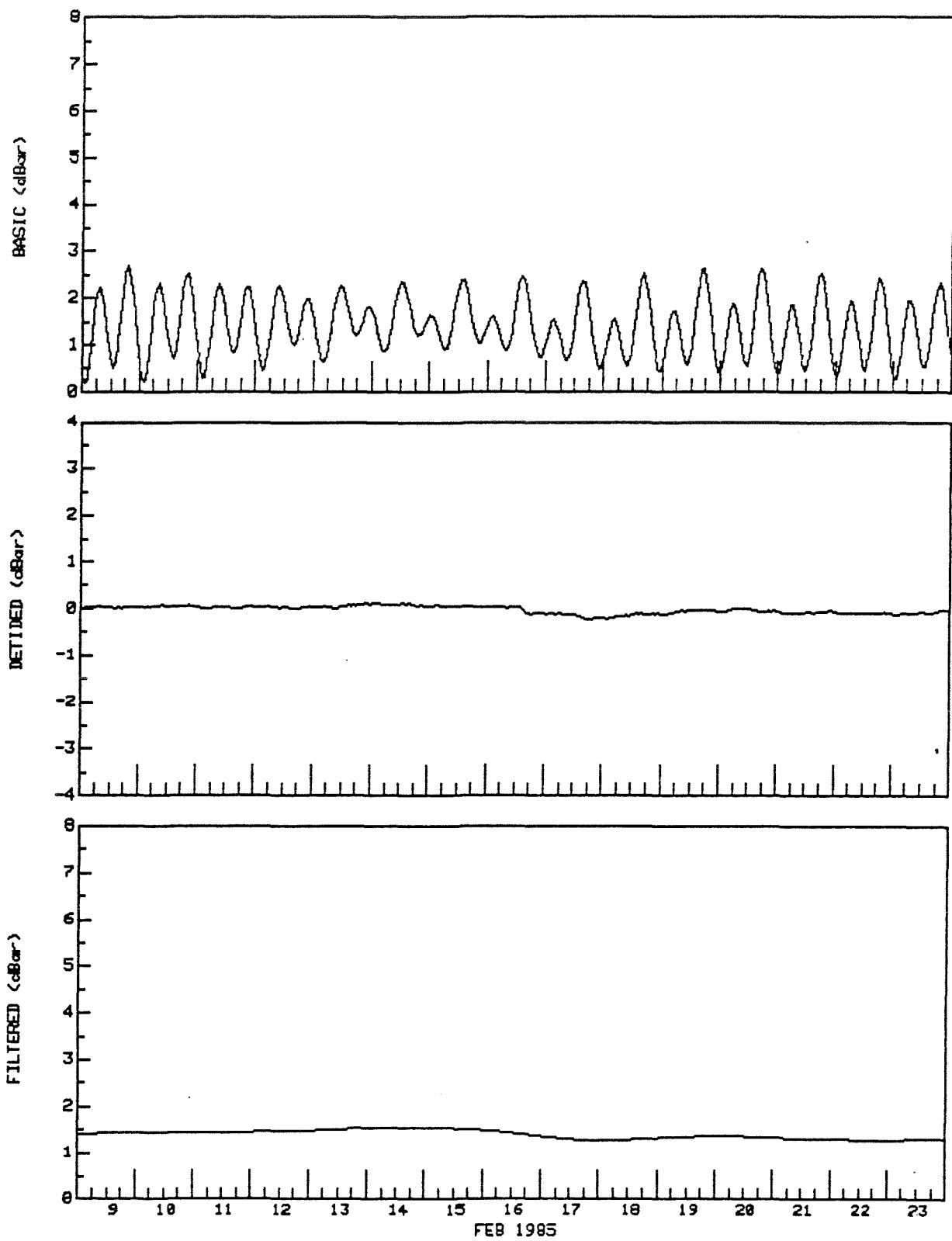
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

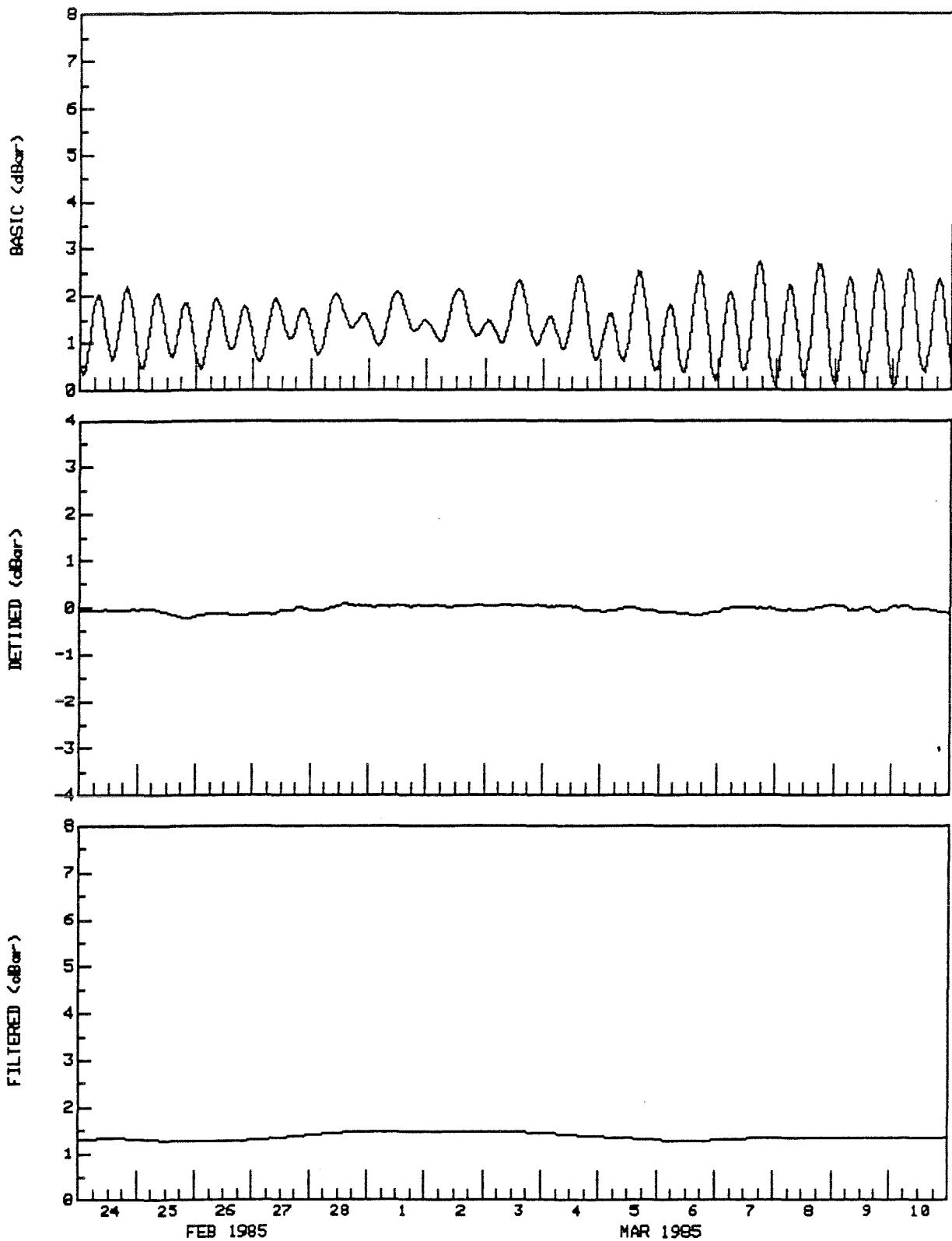
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

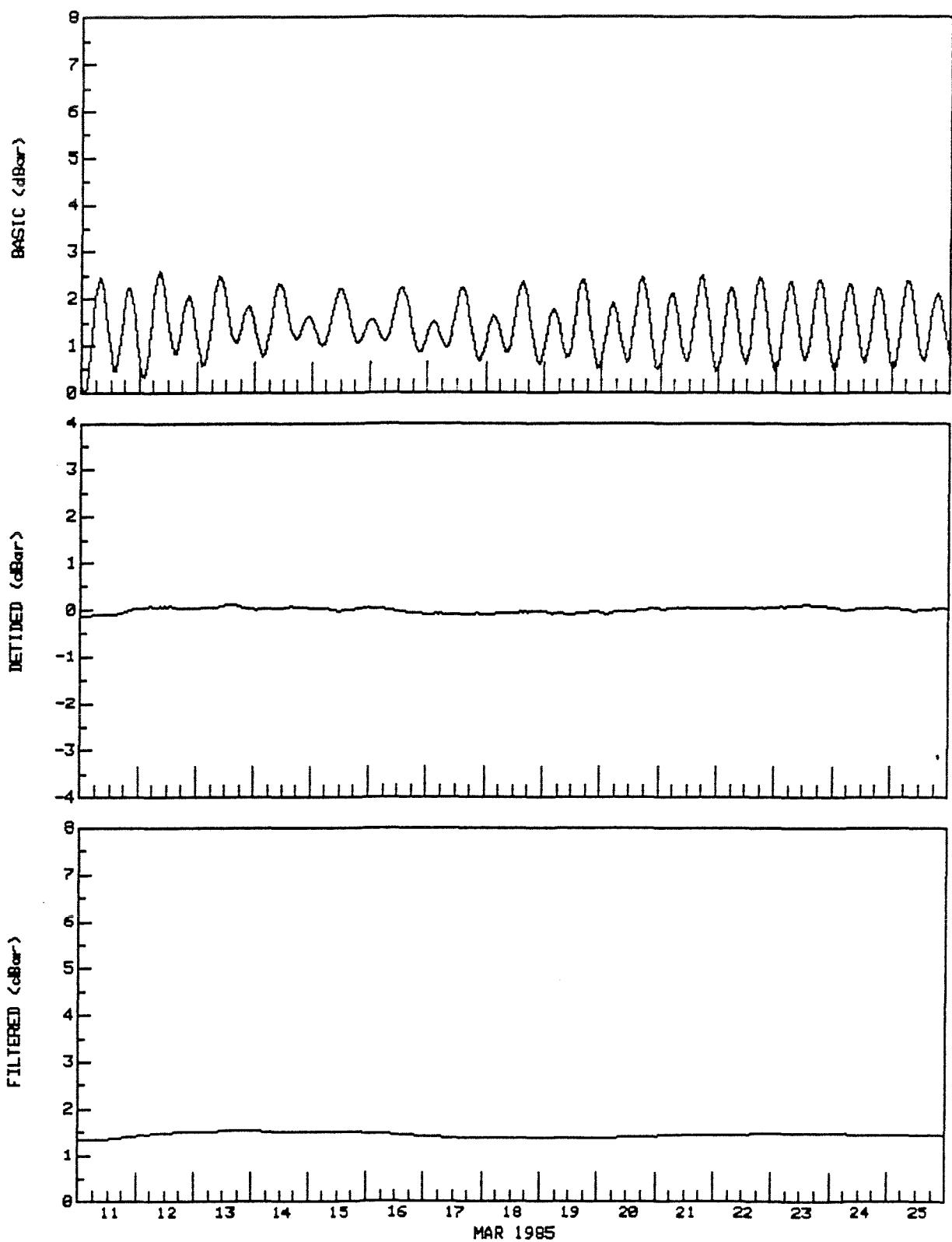
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

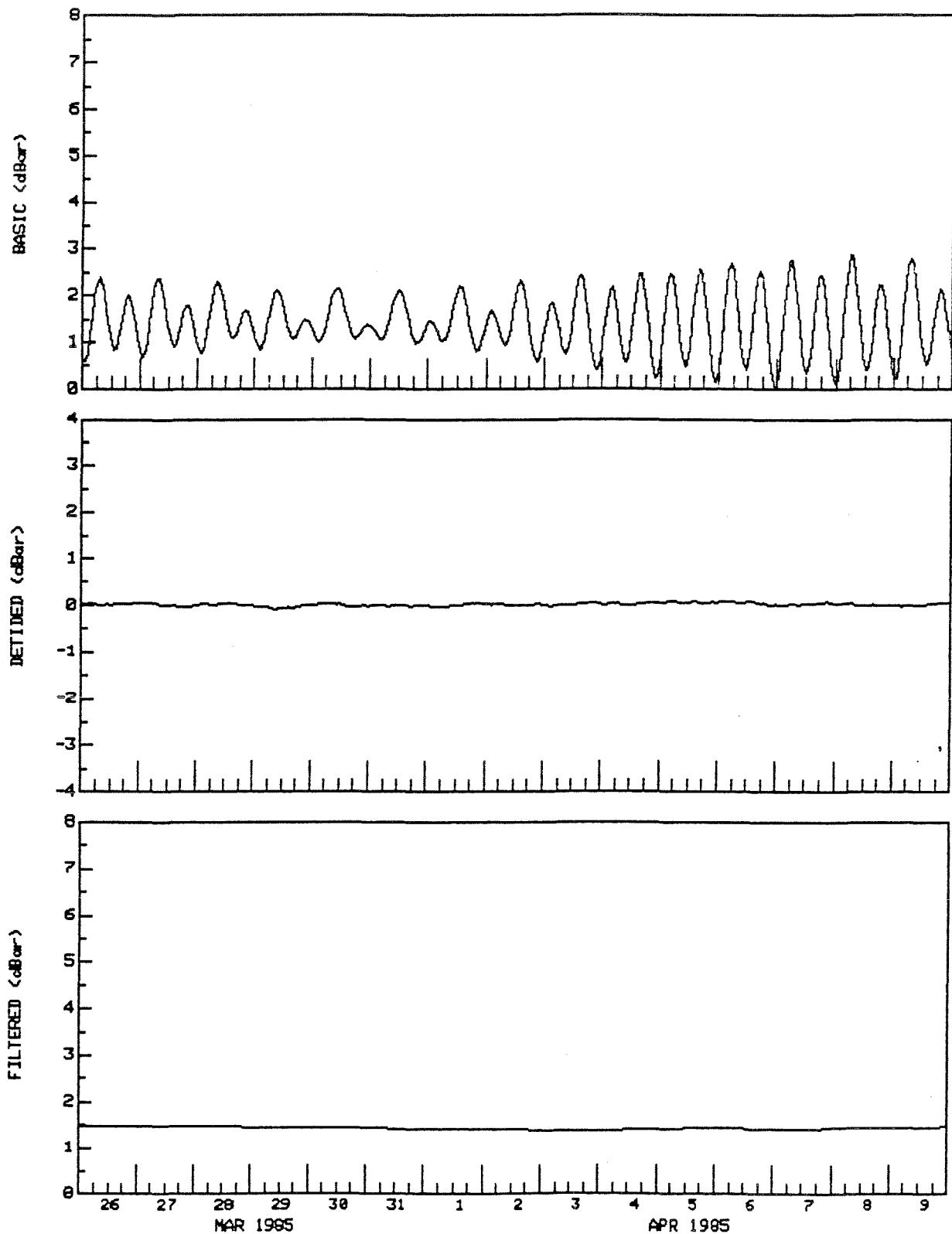
NORTHERN BAFFIN BAY
75 25' N 74 33' W

TAPE 436/1

DEPTH(m) 472
AANDERAA WLRS
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

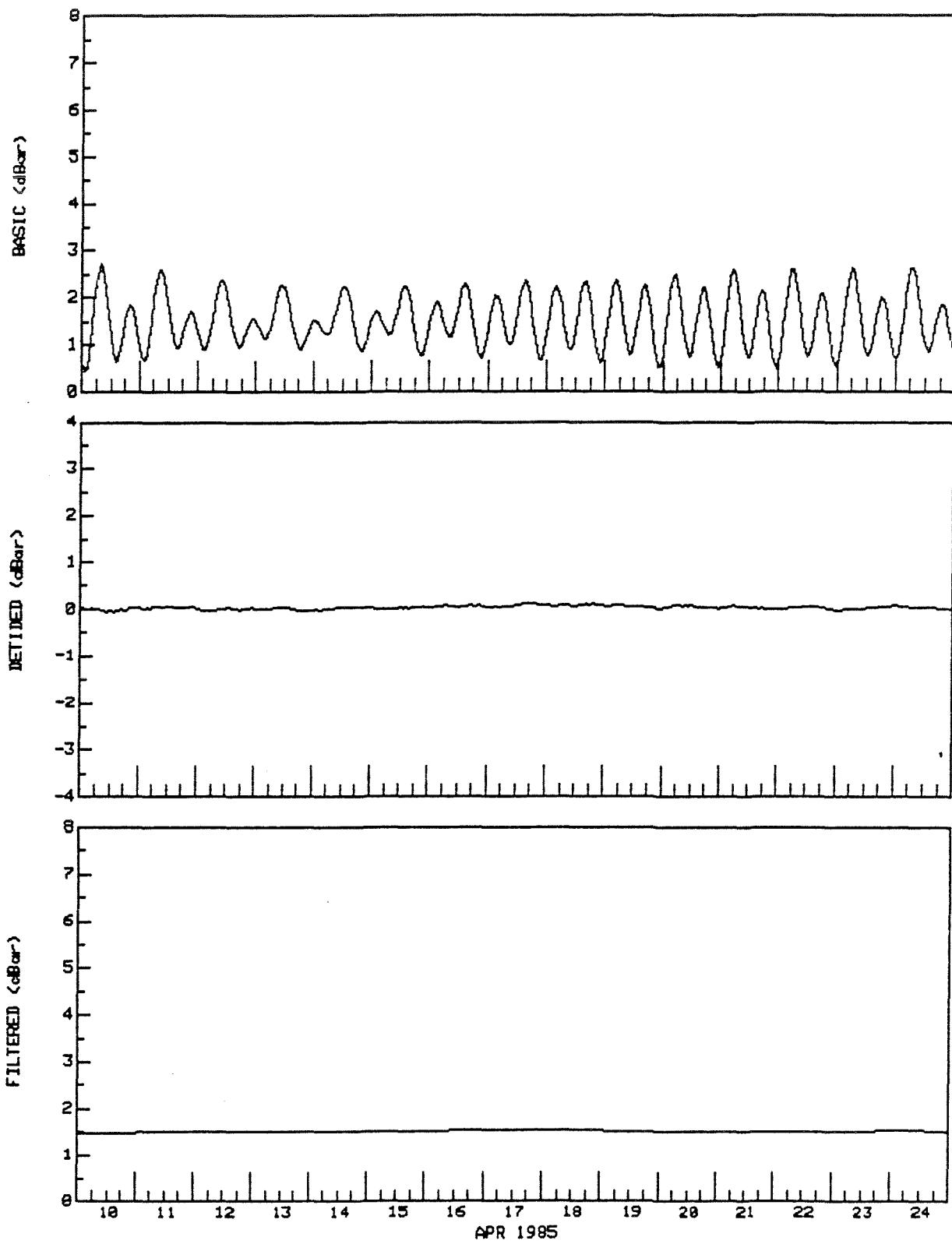
NORTHERN BAFFIN BAY TAPE 436/1 DEPTH(m) 472 TYPE DESPIKED
75 25' N 74 33' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

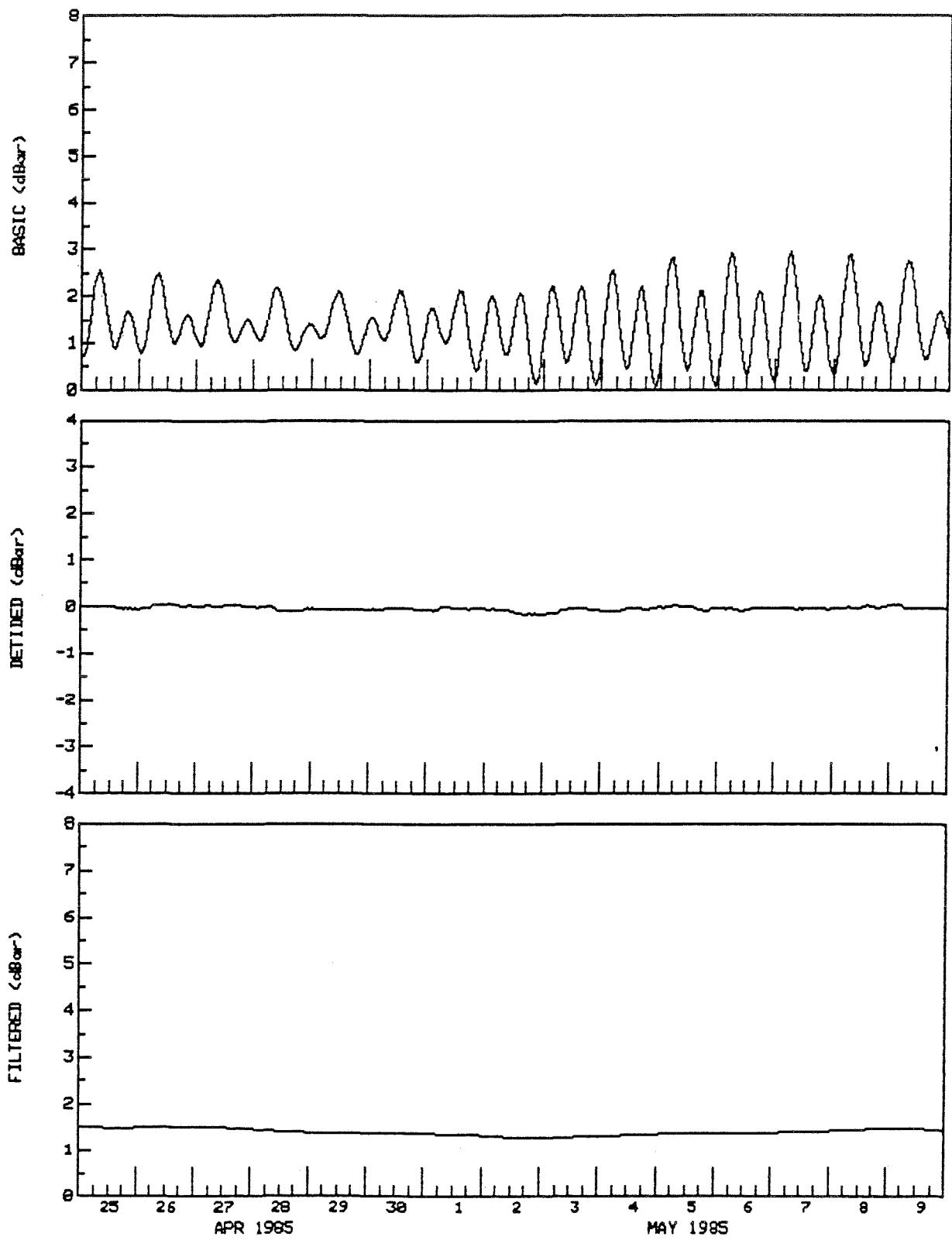
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

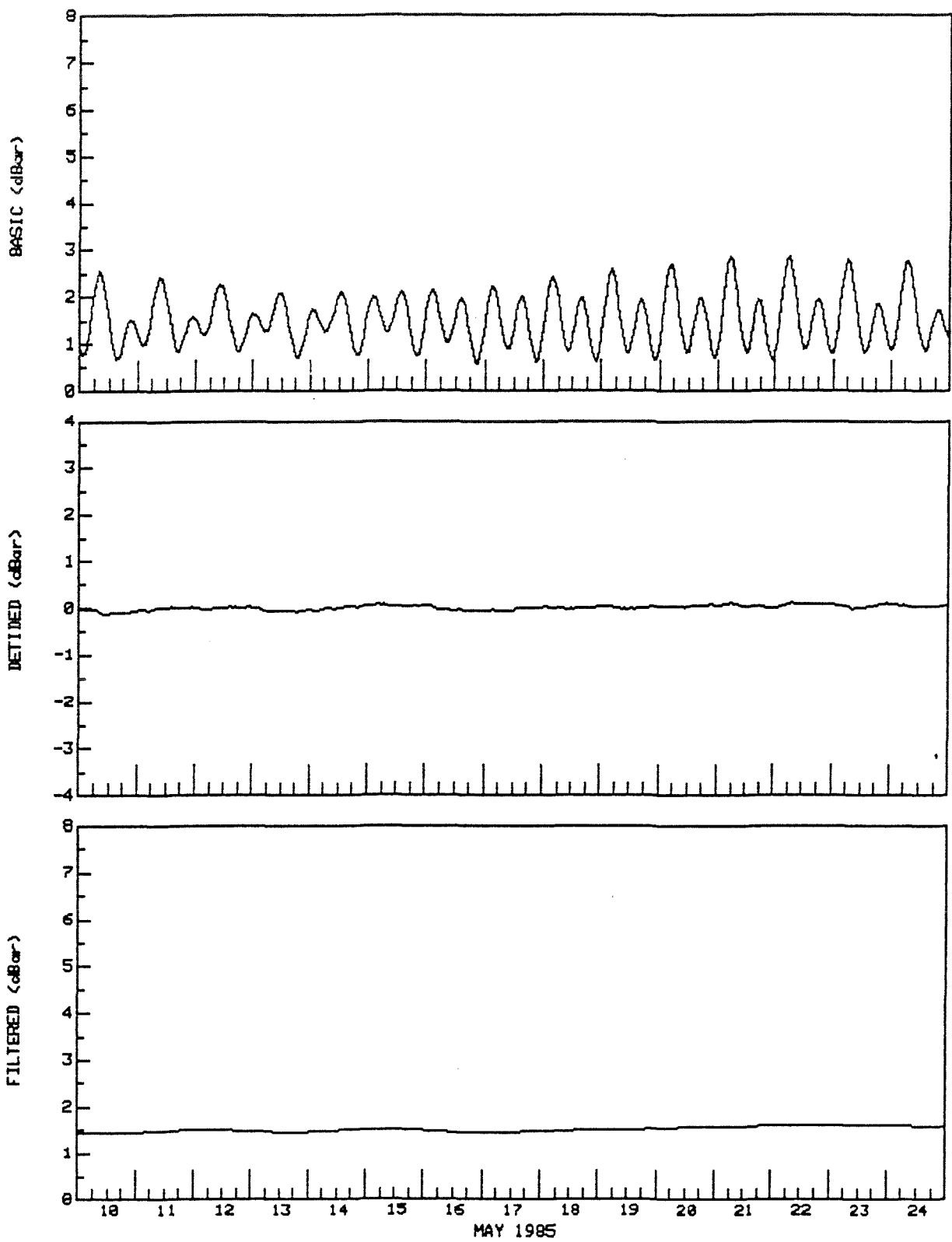
TAPE 436/1

DEPTH(m) 472
AANDERAA WLRS
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

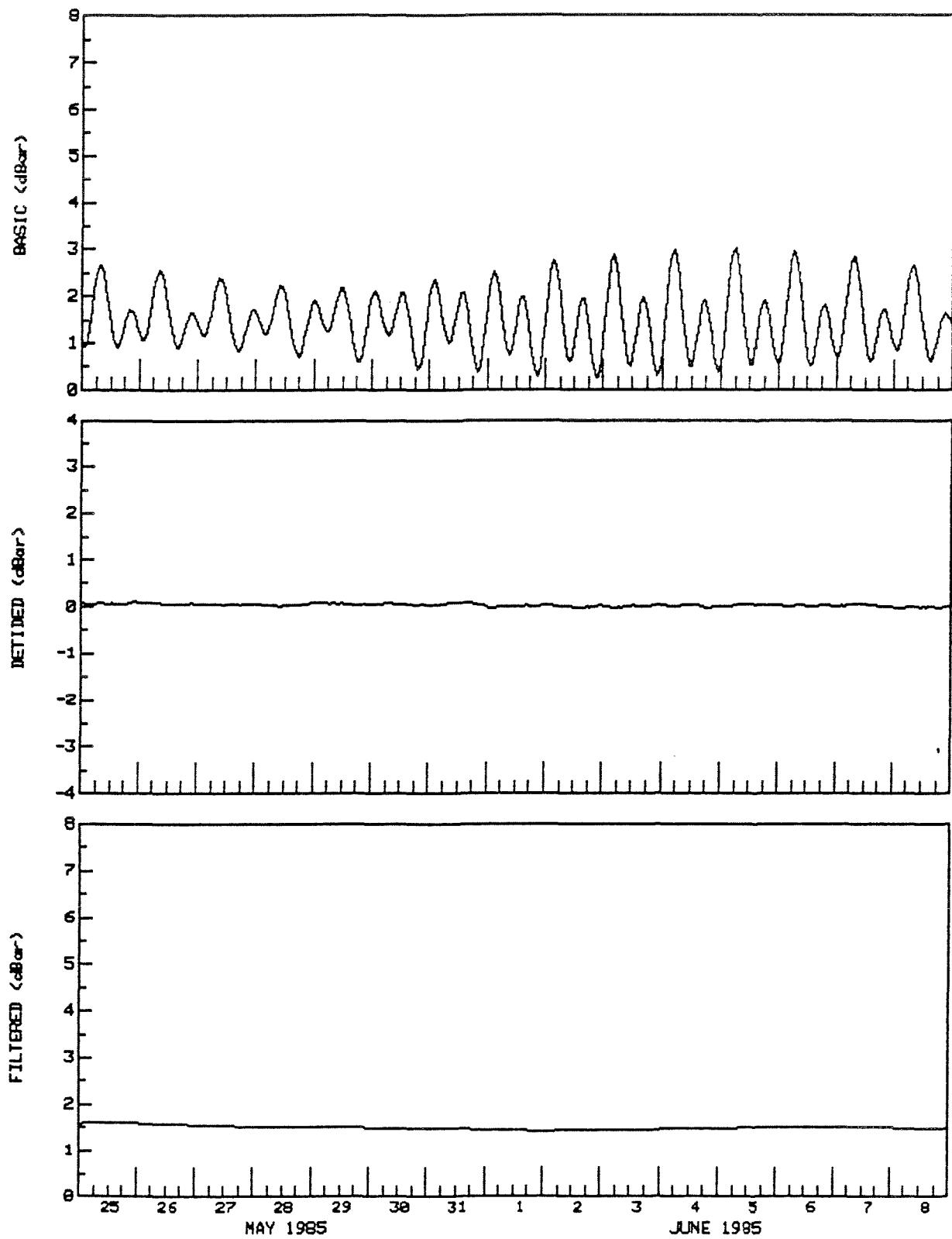
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

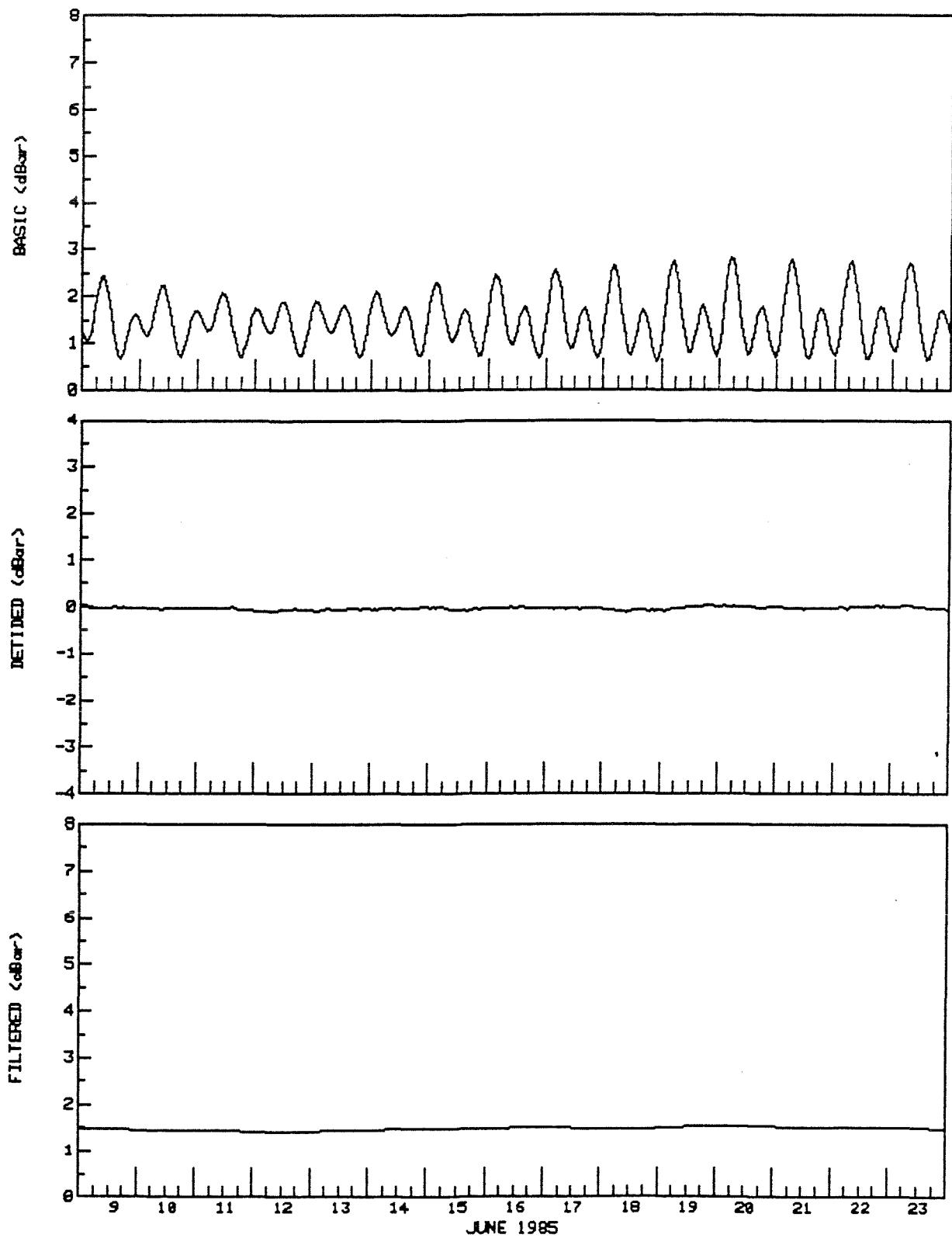
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

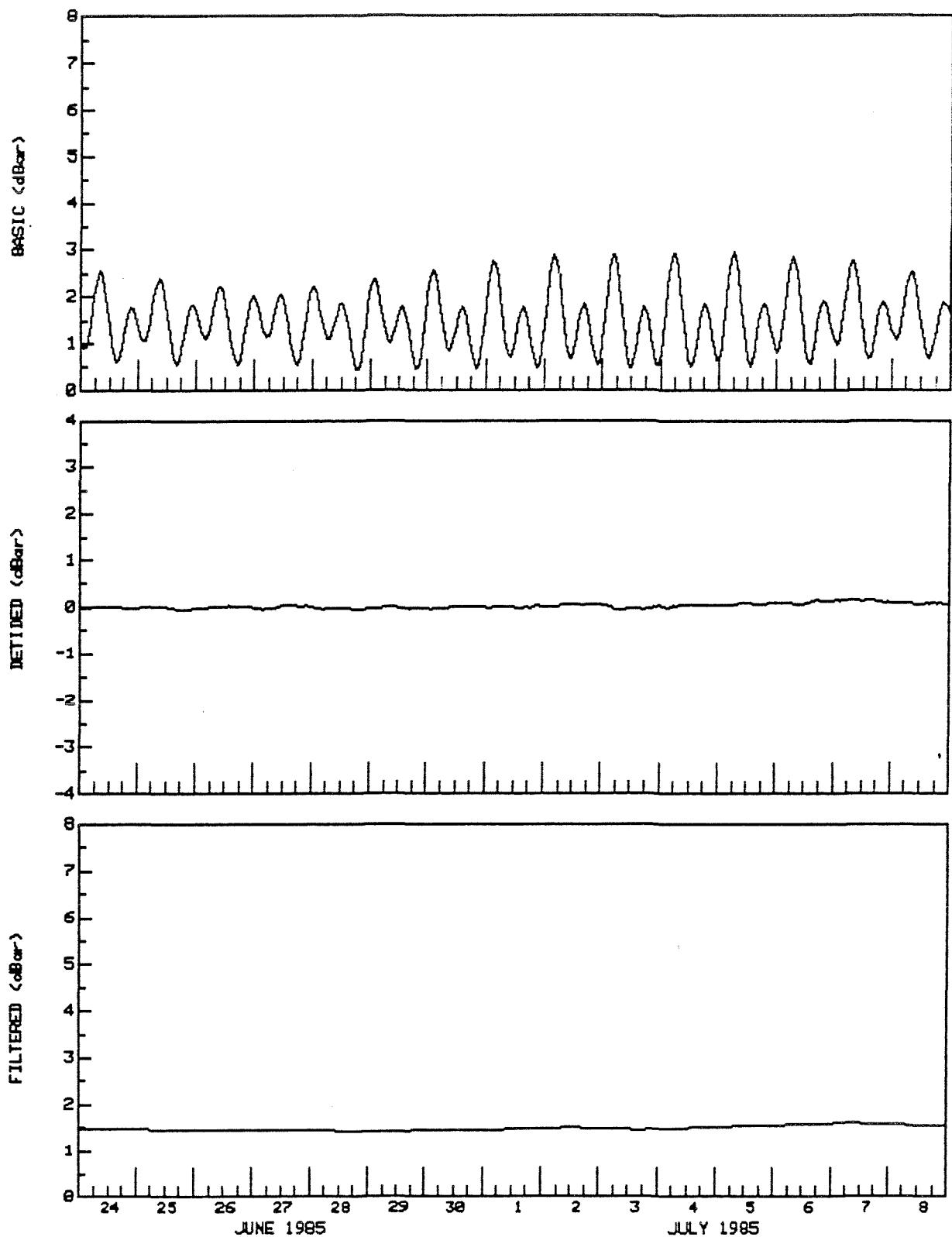
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

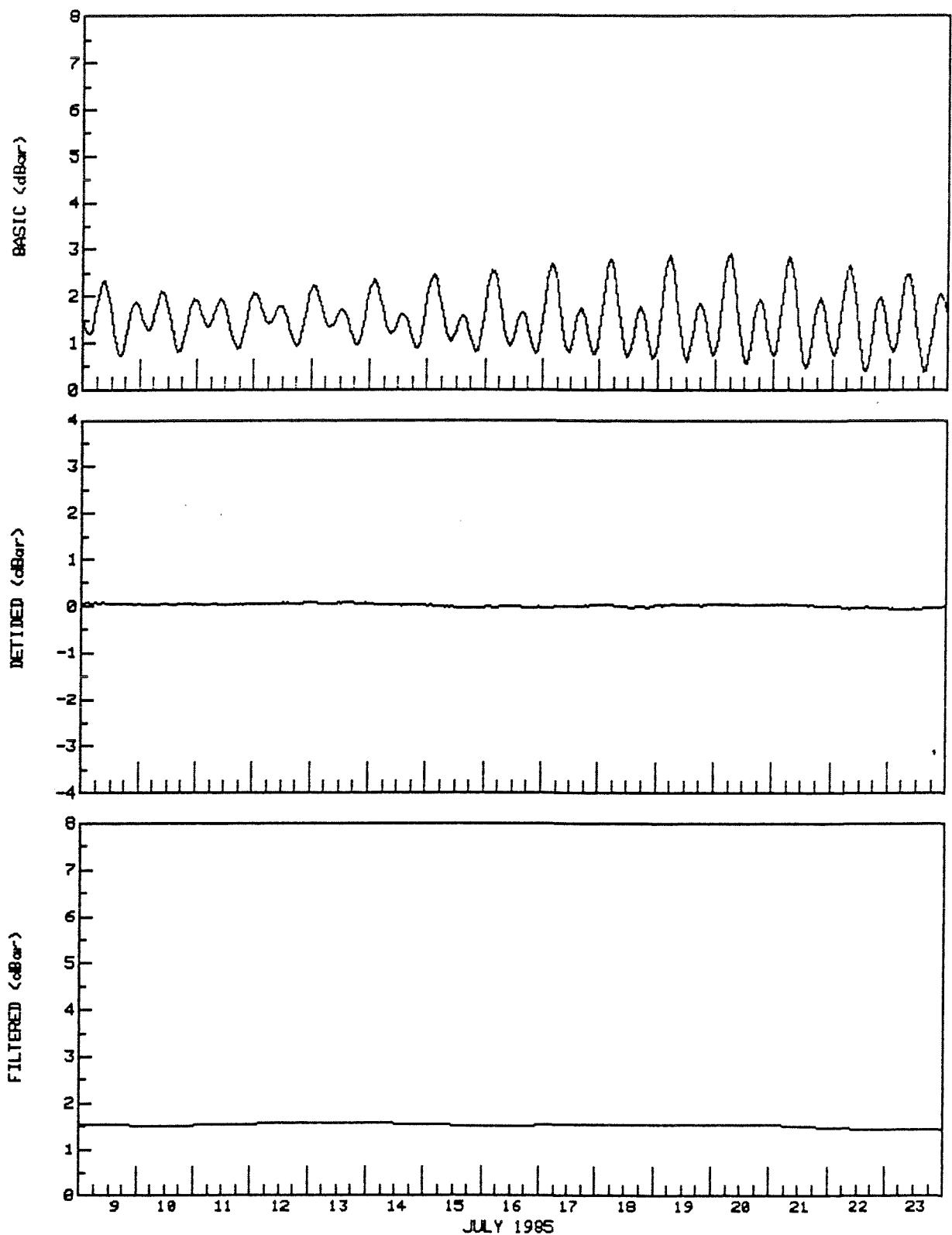
TAPE 436/1

DEPTH(m) 472 TYPE DESPIKED
AANDERAA WLR5 DT(min) 60

TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

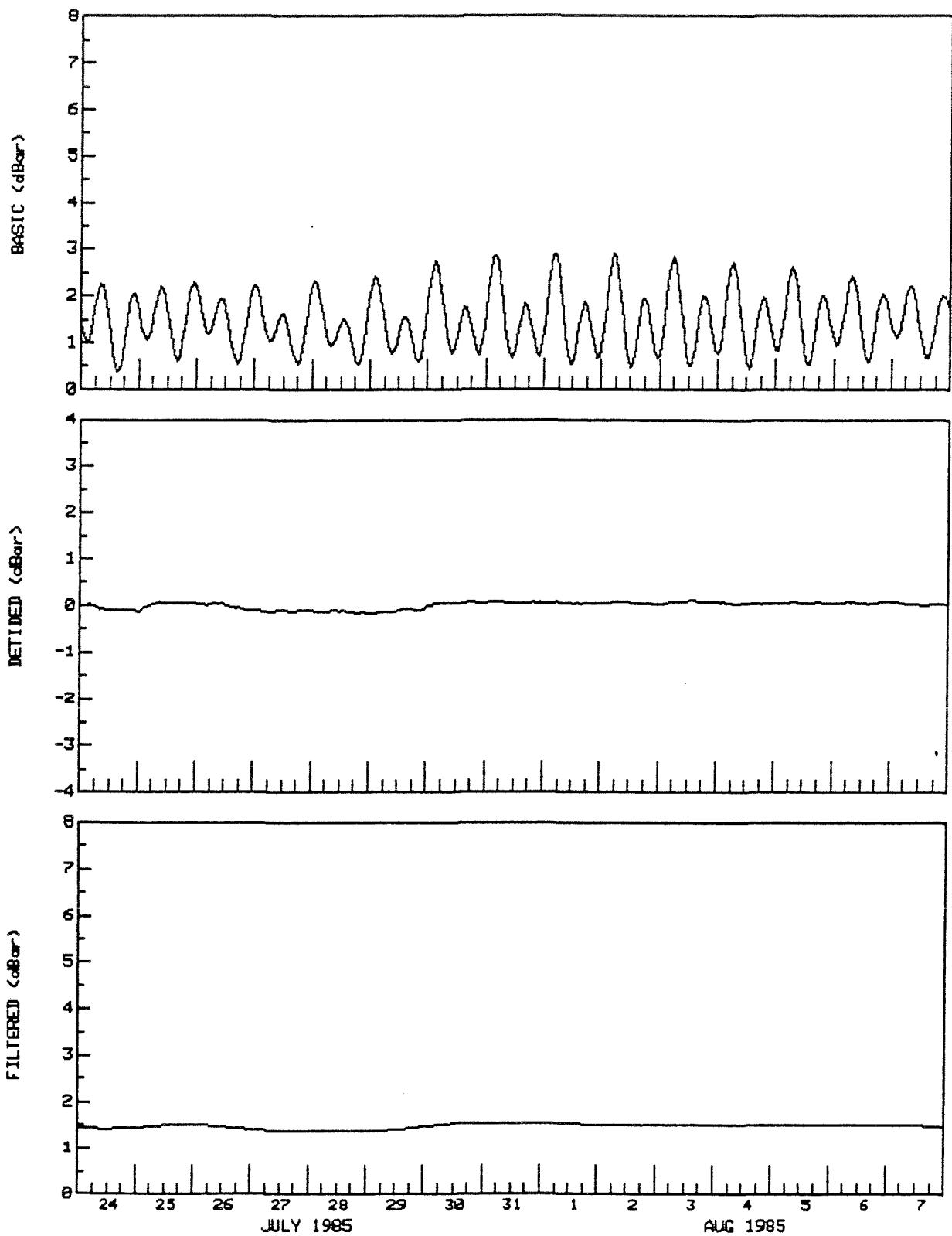
TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

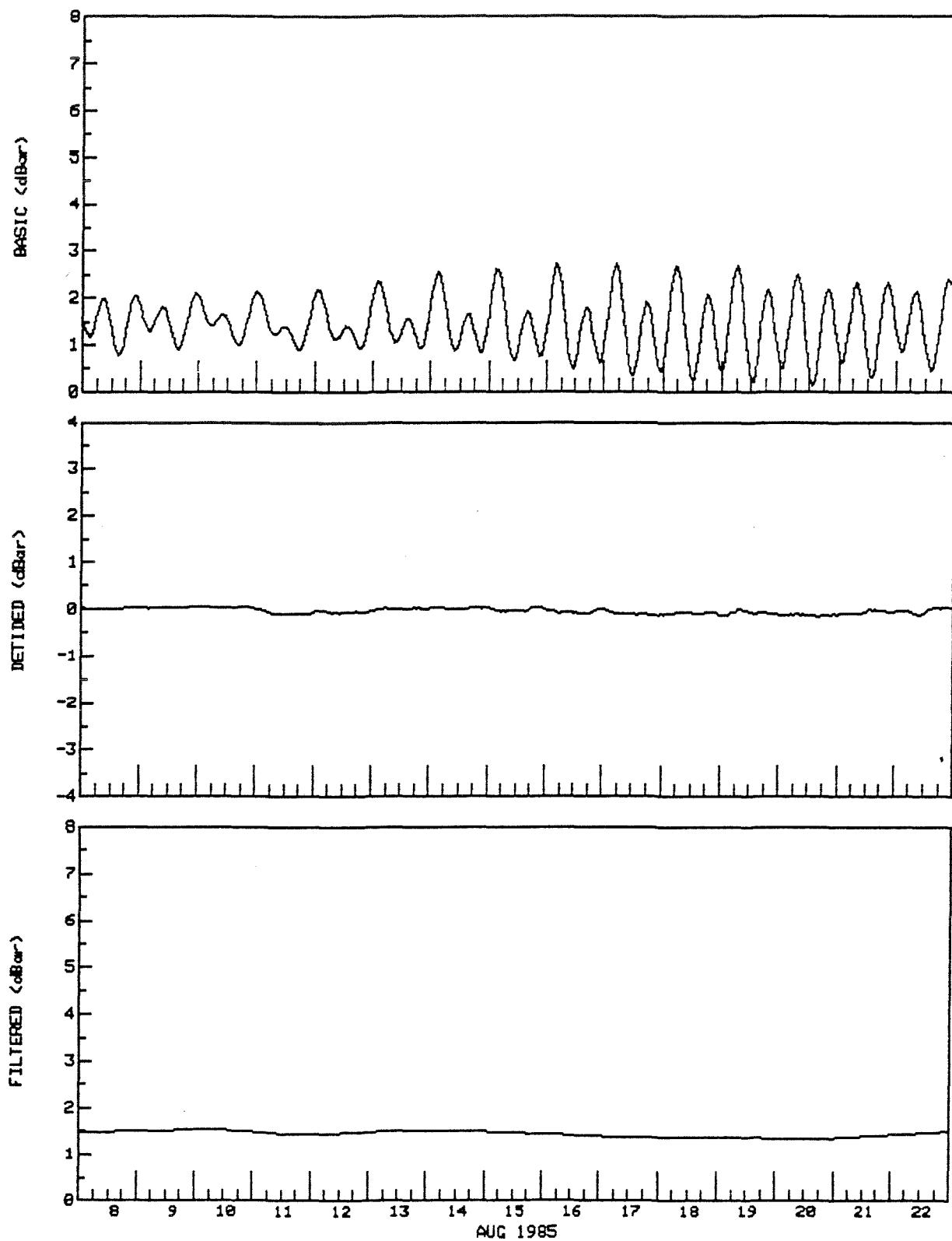
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

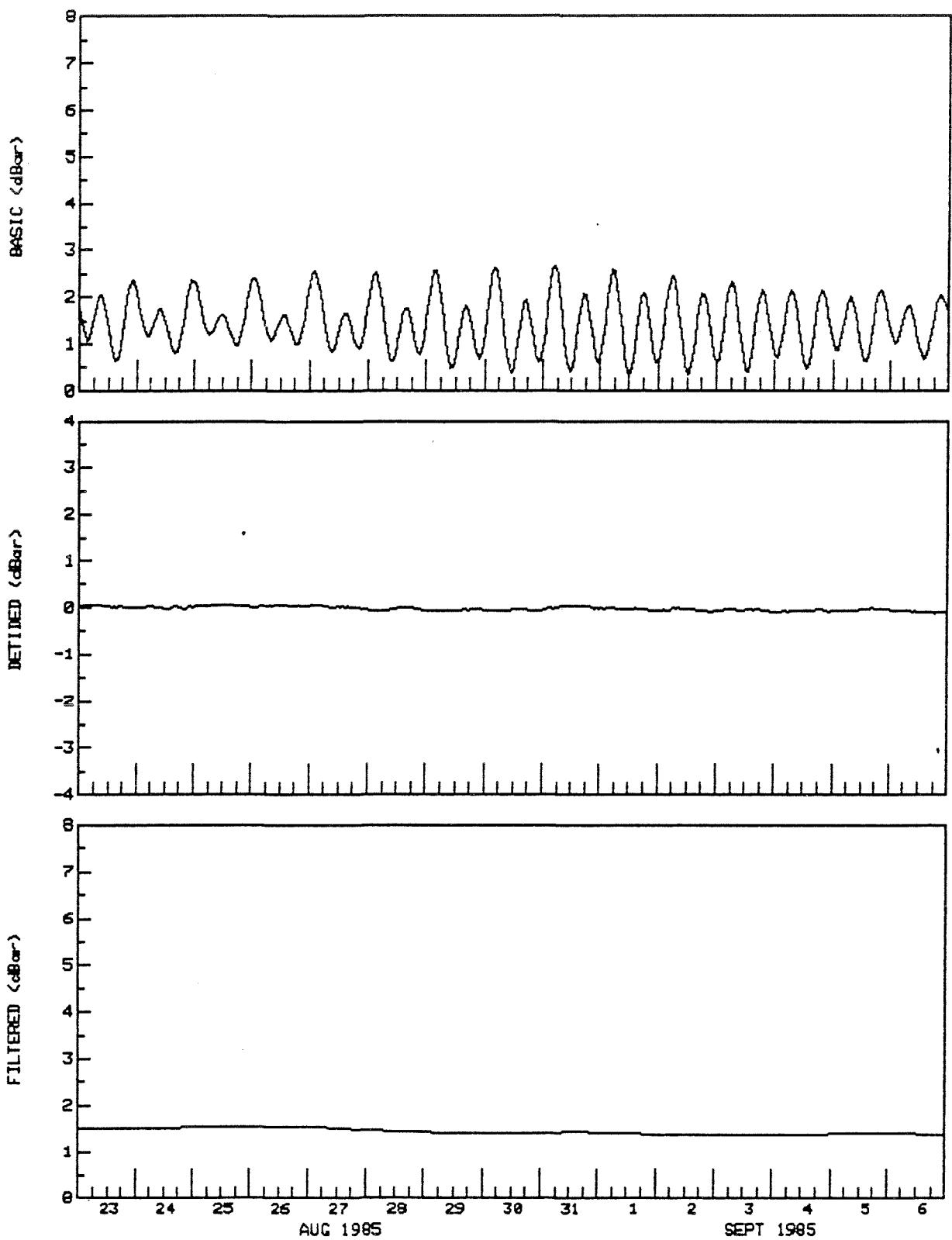
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
NORTHERN BAFFIN BAY TAPE 436/1 DEPTH(m) 472 TYPE DESPIKED
75 25' N 74 33' W AANDERAA WLR5 DT(min) 60



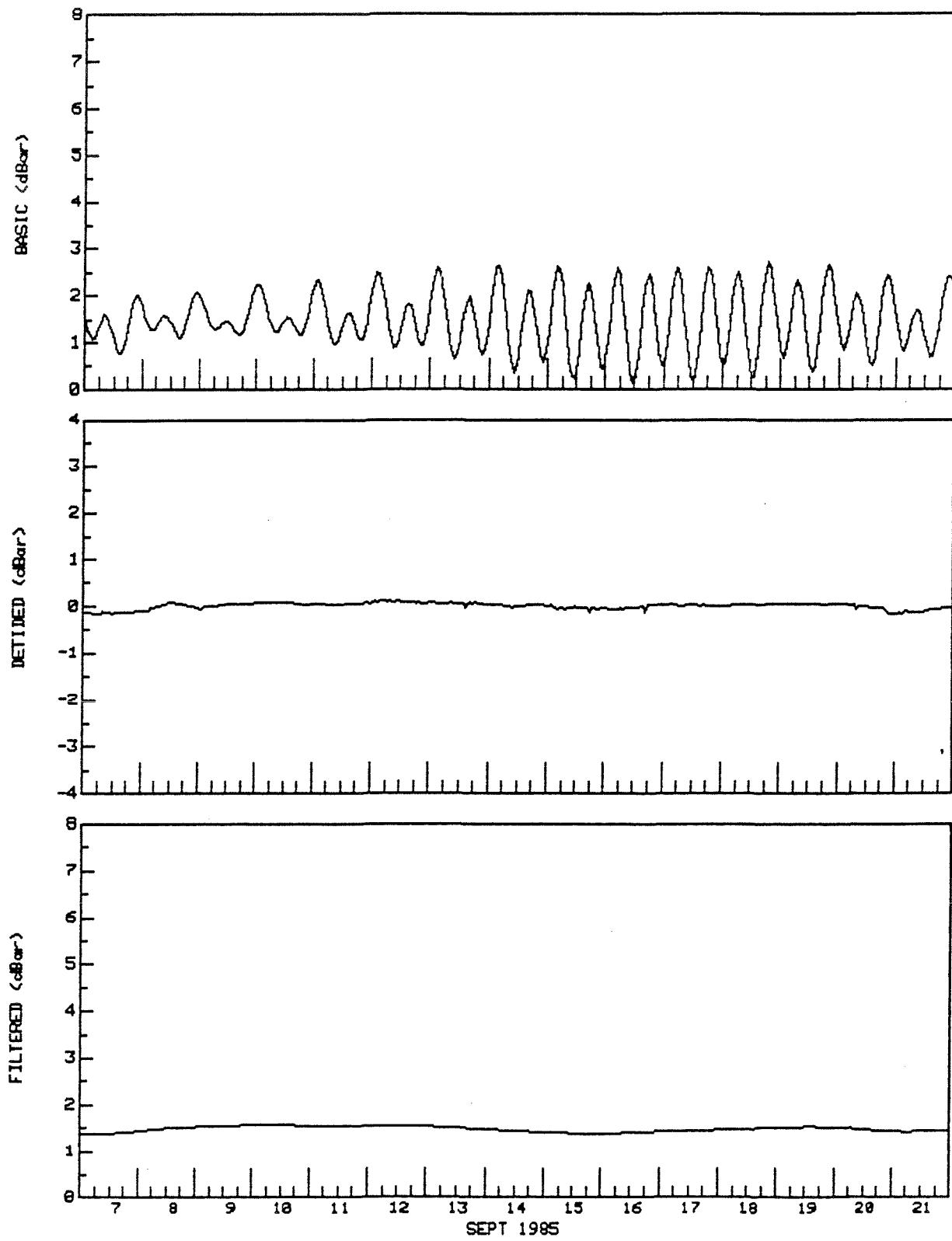
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5TYPE DESPIKED
DT(min) 60

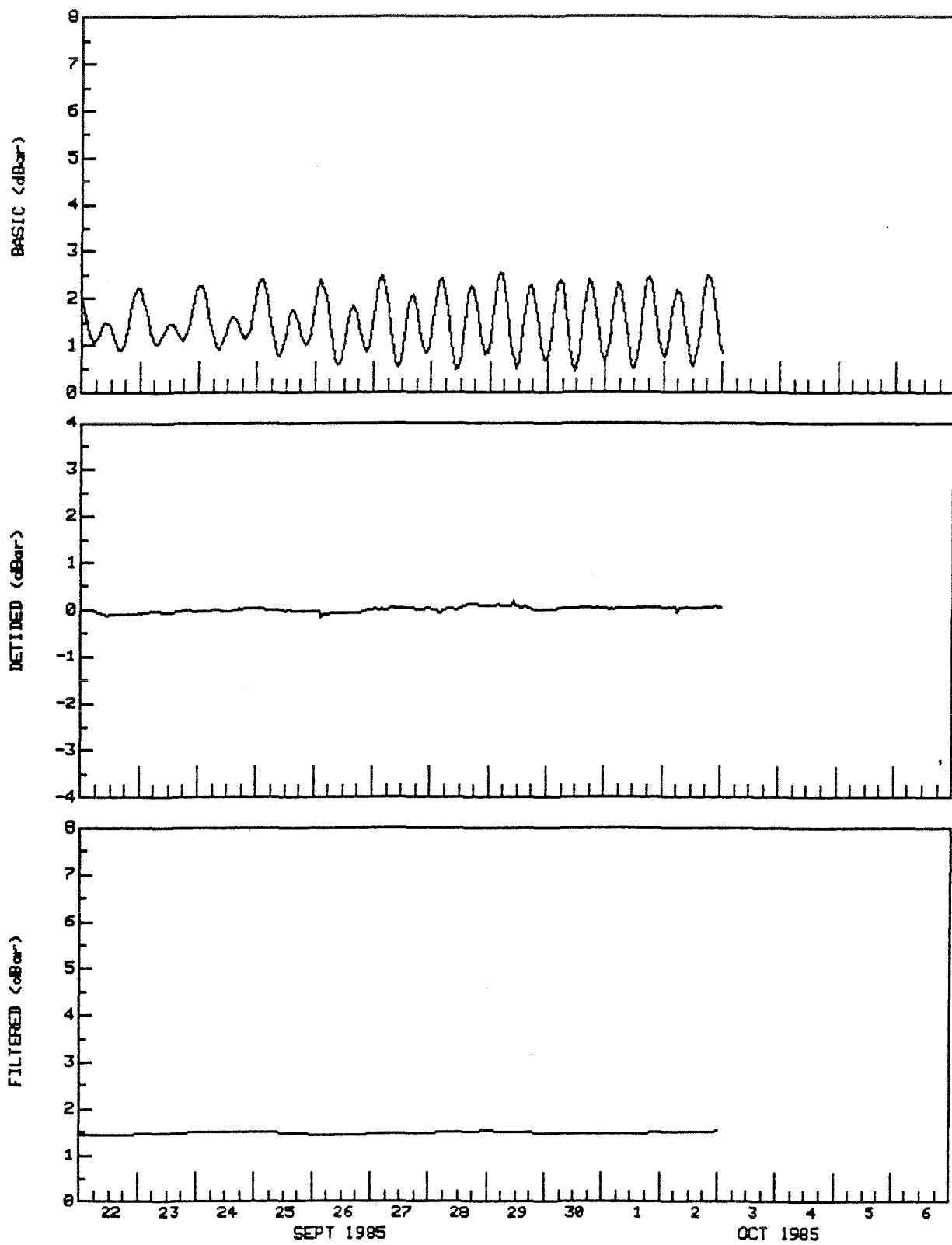
TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE
NORTHERN BAFFIN BAY TAPE 436/1 DEPTH(m) 472 TYPE DESPIKED
75 25' N 74 33' W AANDERAA WLR5 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED PRESSURE

NORTHERN BAFFIN BAY
75 25' N 74 33' W

TAPE 436/1

DEPTH(m) 472
AANDERAA WLR5
TYPE DESPIKED
DT(min) 60

Tidal Stream Analysis**Tidal Ellipse Plots****Speed-Direction Histogram****Progressive Vector Diagram****Auto Spectra of Residual Velocity Components****And****Time Series Plots of
Speed, Direction, Temperature****And****Basic, De-tided and Filtered Records****(Where Data Available)****Appendix 2**

SITE CM#3**CURRENT METER # 6185****AUTO SPECTRUM (SPEED)
TIME SERIES PLOTS**

Site: CM#3 Kennedy Channel Centre
Position: 81°11'00"N 64°59'48"W
Meter #: Aanderaa RCM4 no. 6185

Date/Time of Deployment: 8 Mar 85 1801
Date/Time of Recovery: 28 Apr 85 2104
Sampling Interval: 20 min
Number of Samples: 3805

Statistics:	Minimum	Maximum	Mean	Std Dev
Speed	0.0	51.747	19.742	8.747

Data Quality: No direction data

Data Processing Sequence: No tidal analysis performed, but spectral analysis of speed and plot of auto spectrum generated

EASTERN ARCTIC TIDAL SURVEY, 1985

SPECTRAL ANALYSIS RESULTS

STN: KENNEDY CHAN. CENTER LAT: 81 11 0.0 N
 DEPTH: 7 m LONG: 64 59 48.0 W
 START: 2000Z 10/ 3/85 END: 1100Z 22/ 4/85
 DT = 1.0000 HOUR NO.PTS = 1024 (NO.AUG = 1024)
 NO.OF BANDS = 100 DEGREES OF FREEDOM = 10.946
 MEAN AND LINEAR TREND REMOVED
 COSINE TAPER APPLIED TO ENDS OF EACH SERIES

AUTO-SPECTRAL DENSITY

BAND NO.	FREQUENCY (CYC/HR)	SPEED (CM/S**2-HR)
0	0.0029	2361.7
1	0.0103	165.85
2	0.0200	153.33
3	0.0298	191.39
4	0.0400	756.05
5	0.0503	121.07
6	0.0601	118.63
7	0.0698	117.59
8	0.0801	1965.1
9	0.0903	137.10
10	0.1001	140.79
11	0.1099	53.918
12	0.1196	898.77
13	0.1299	127.83
14	0.1401	81.332
15	0.1499	18.196
16	0.1597	484.23
17	0.1699	117.46
18	0.1802	39.025
19	0.1899	30.155
20	0.1997	42.318
21	0.2100	33.032
22	0.2202	9.4739
23	0.2300	15.120
24	0.2397	19.434
25	0.2500	22.536

EASTERN ARCTIC TIDAL SURVEY, 1985

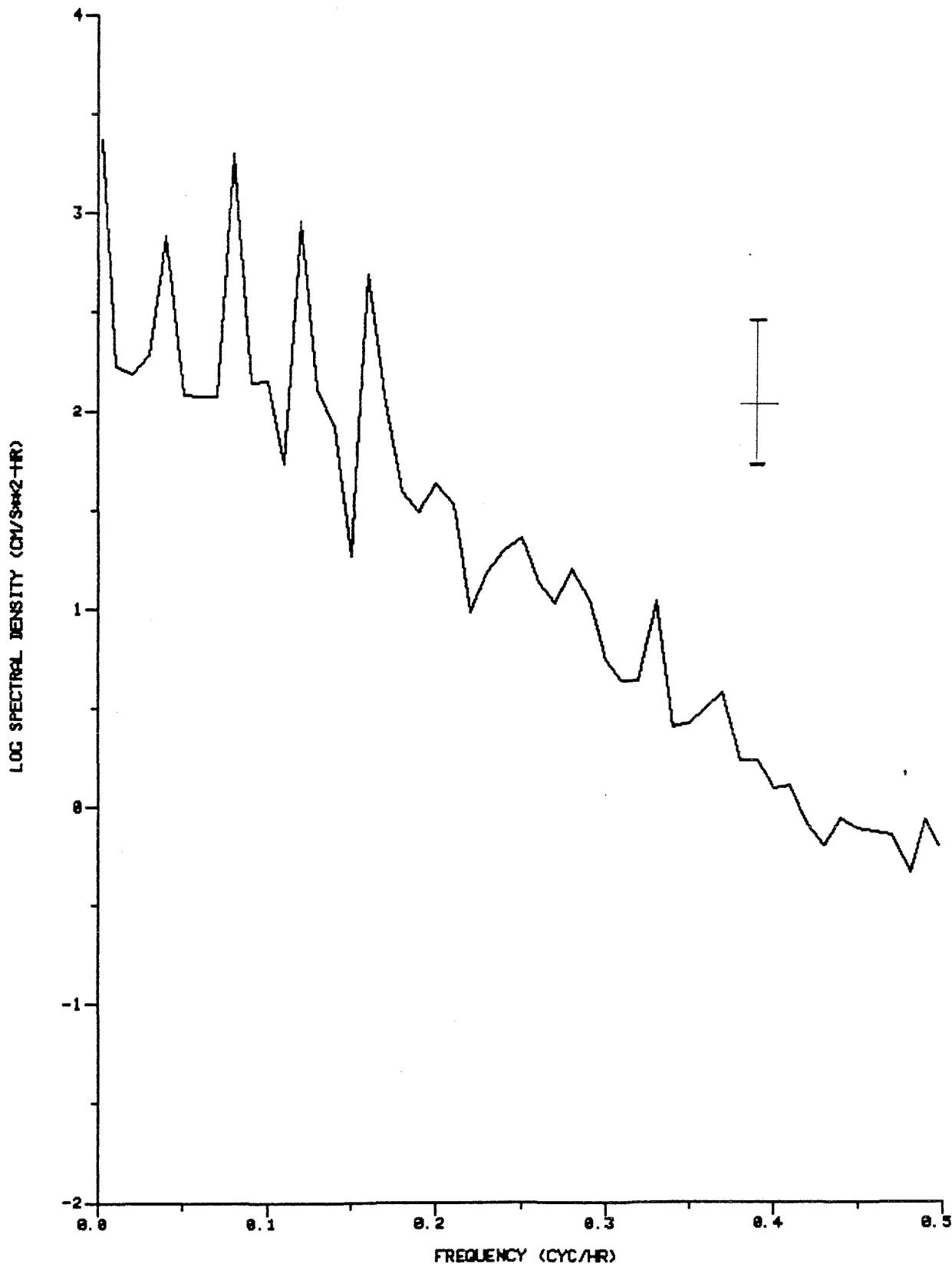
SPECTRAL ANALYSIS RESULTS

STN: KENNEDY CHAN. CENTER LAT: 81 11 0.0 N
 DEPTH: 7 m LONG: 64 59 48.0 W
 START: 2000Z 10/ 3/85 END: 1100Z 22/ 4/85
 DT = 1.0000 HOUR NO.PTS = 1024 (NO.AUG = 1024)
 NO.OF BANDS = 100 DEGREES OF FREEDOM = 10.946
 MEAN AND LINEAR TREND REMOVED
 COSINE TAPER APPLIED TO ENDS OF EACH SERIES

AUTO-SPECTRAL DENSITY

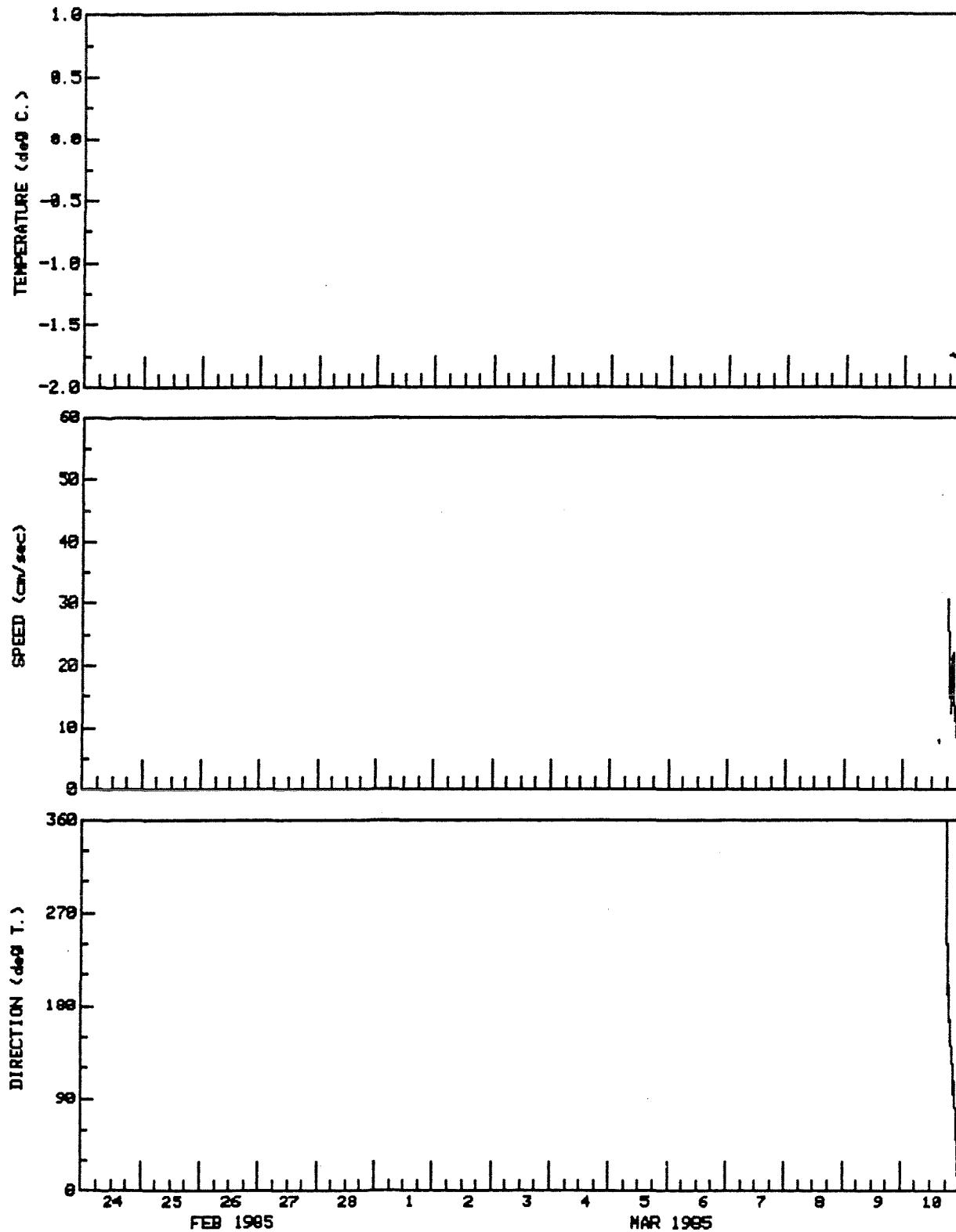
BAND NO.	FREQUENCY (CYC/HR)	SPEED (CM/S**2-HR)
26	0.2603	13.392
27	0.2700	10.517
28	0.2798	15.540
29	0.2900	10.848
30	0.3003	5.4033
31	0.3101	4.2594
32	0.3198	4.2594
33	0.3301	10.655
34	0.3403	2.4954
35	0.3501	2.6120
36	0.3599	3.0827
37	0.3696	3.6628
38	0.3799	1.6824
39	0.3901	1.6884
40	0.3999	1.2159
41	0.4097	1.2480
42	0.4199	0.79961
43	0.4302	0.62148
44	0.4399	0.85238
45	0.4497	0.75790
46	0.4600	0.73827
47	0.4702	0.70134
48	0.4800	0.46008
49	0.4897	0.83548
50	0.4971	0.62660

LOG OF RAW SPEED SPECTRAL DENSITY vs FREQUENCY

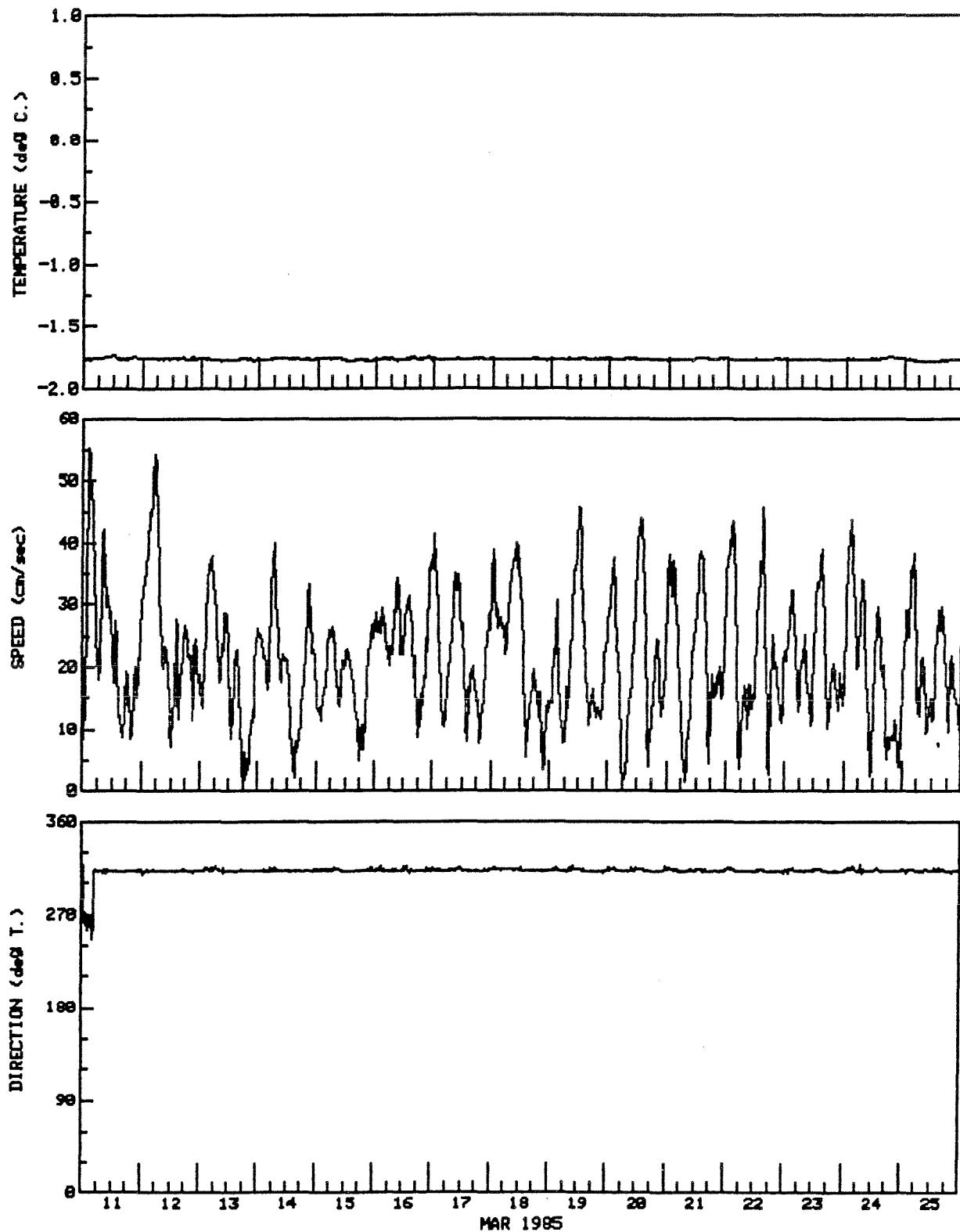
SITE #3 KENNEDY CHANNEL-C.
81 11' 00"N 64 59' 48"WMETER 6185/1
AANDERAA RCMDEPTH(m) 7
DT(min) 20

TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION

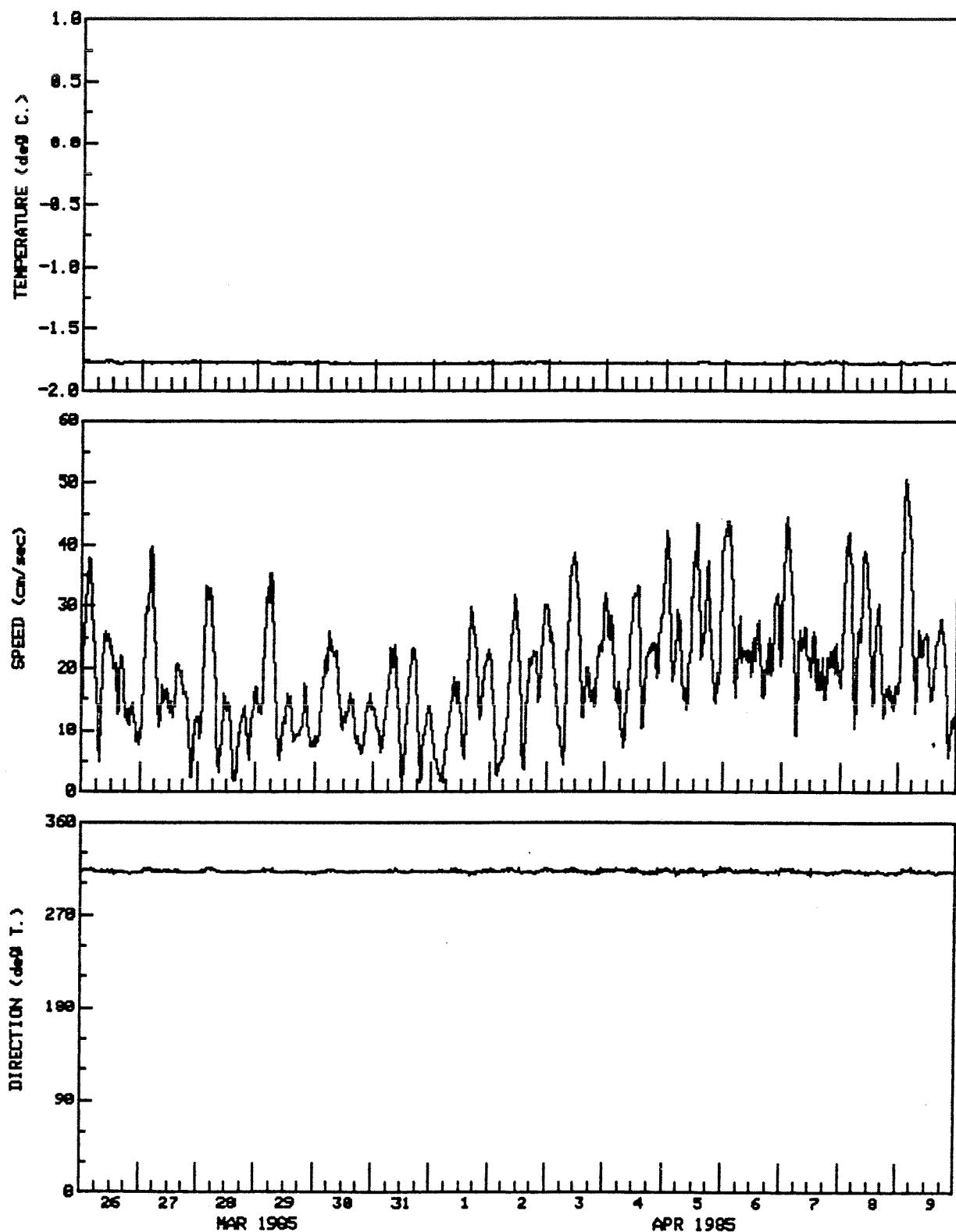
SITE #3 KENNEDY CHANNEL C. DEPTH(m) 7 TYPE DESPIKED
81 11' 00"N 64 59' 48"W AANDERAA RCM4 #6185 DT(min) 20



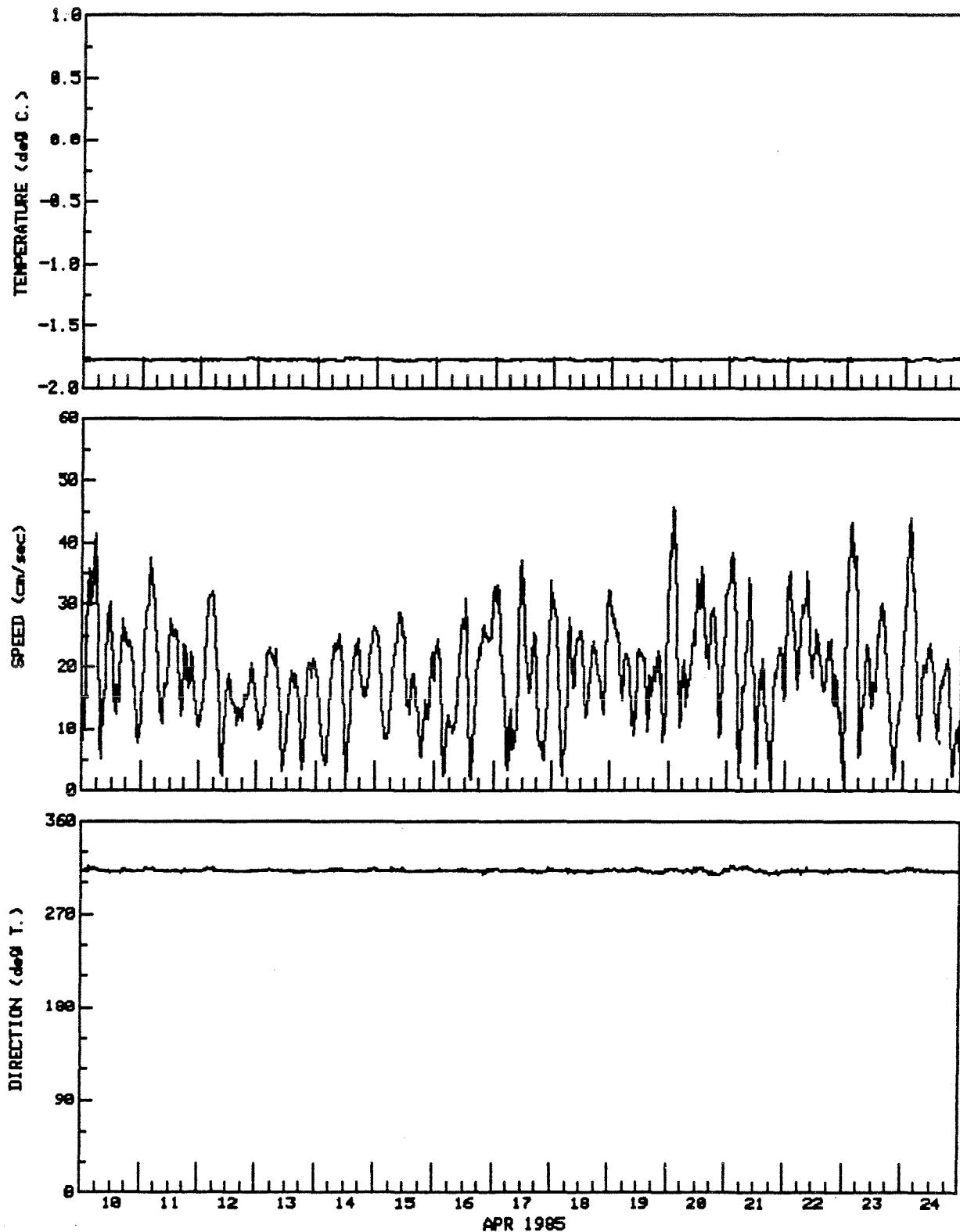
TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION
SITE #3 KENNEDY CHANNEL C. DEPTH(m) 7 TYPE DESPIKED
81 11' 00"N 64 59' 48"W AANDERAA RCM4 #6185 DT(min) 20



TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION
SITE #3 KENNEDY CHANNEL C. DEPTH(m) 7 TYPE DESPIKED
81 11' 00"N 64 59' 48"W AANDERAA RCM4 #6185 DT(min) 20

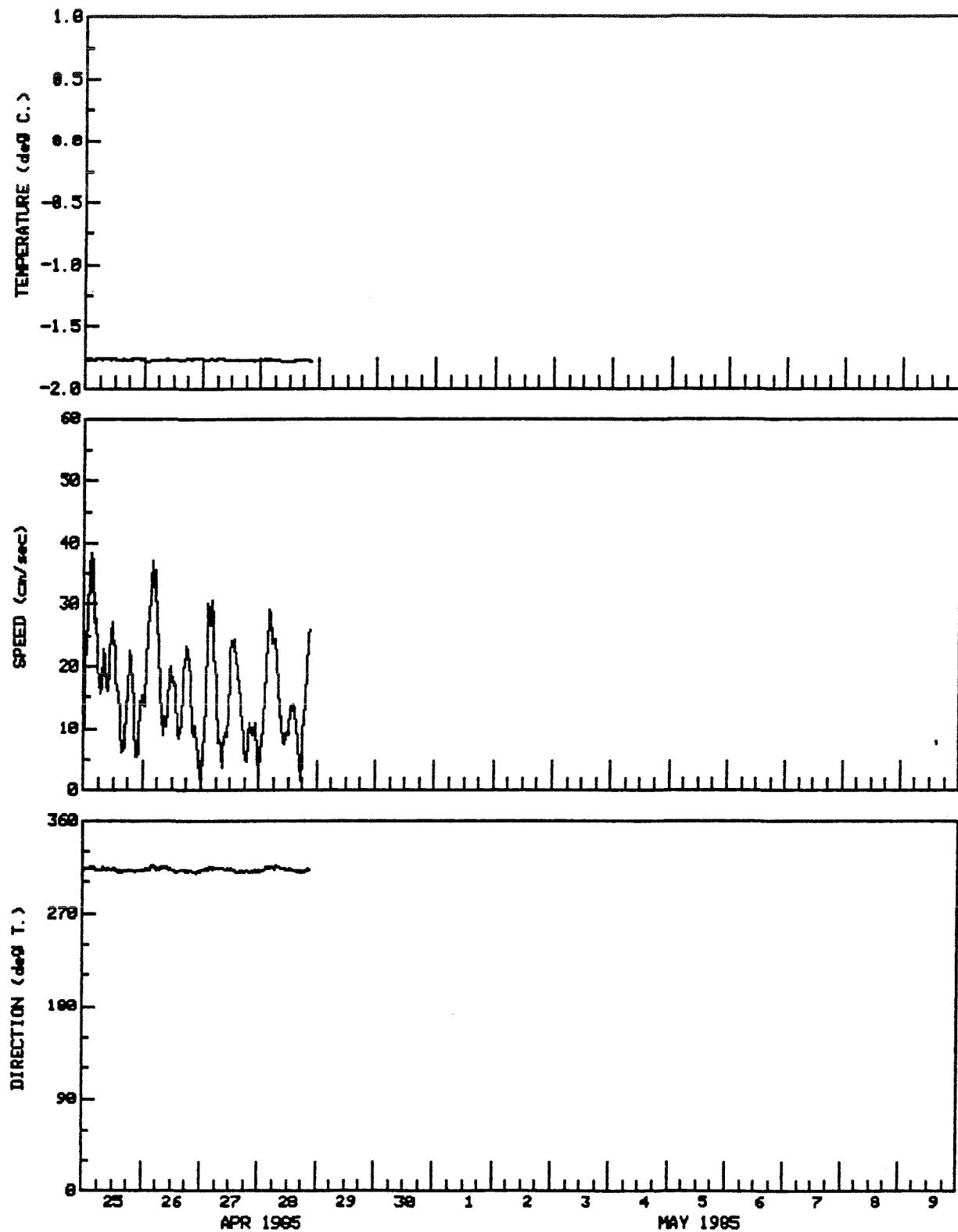


TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION
SITE #3 KENNEDY CHANNEL C. DEPTH(m) 7 TYPE DESPIKED
81 11' 00"N 64 59' 48"W AANDERAA RCM4 #6185 DT(min) 20



TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION

SITE #3 KENNEDY CHANNEL C. DEPTH(m) 7 TYPE DESPIKED
81 11' 00"N 64 59' 48"W AANDERAA RCM4 #6185 DT(min) 20



SITE CM# 4**CURRENT METER # 6186**

TIDAL STREAM ANALYSIS
TIDAL ELLIPSE PLOTS
SPEED-DIRECTION HISTOGRAM
PROGRESSIVE VECTOR DIAGRAM
AUTO SPECTRA
TIME SERIES PLOTS

Site: CM# 4 Kennedy Channel-West

Position: 81°12'00" N 65°27'30" W

Meter #: Aanderaa RCM 4 # 6186

Date/Time of Deployment: 10 Mar 85 1729

Date/Time of Recovery: 28 Apr 85 1920

Sampling Interval: 20 min

Number of Records on Tape: 3805

Statistics:	Minimum	Maximum	Mean	Std Dev
Basic U	-51.8	39.4	-3.47	18.80
Basic V	-33.1	26.9	-1.98	10.84
Predicted U	-50.2	30.7	-3.67	17.74
Predicted V	-20.7	20.8	-1.95	8.88
Residual U	-17.2	20.8	0.20	6.05
Residual V	-19.3	18.2	-0.03	6.17
Detided U	-11.2	5.4	-3.51	3.84
Detided V	- 8.7	4.5	-1.96	2.60
(all cm/sec)				

Data Quality: Good

Data Processing Sequence: Normal

EASTERN ARCTIC TIDAL SURVEY, 1985

ANALYSIS RESULTS IN CURRENT ELLIPSE FORM

AMPLITUDES HAVE BEEN SCALED ACCORDING TO APPLIED FILTERS

STN: KENNEDY CHANNEL WEST

LAT: 81 12 0.0 N

DEPTH: 6 M

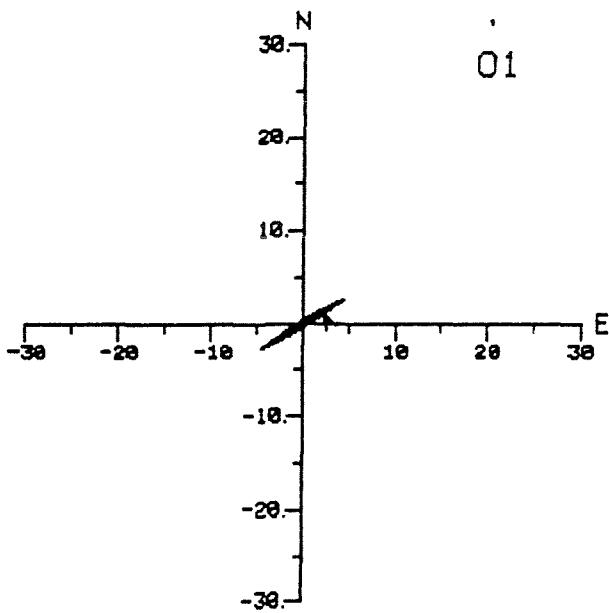
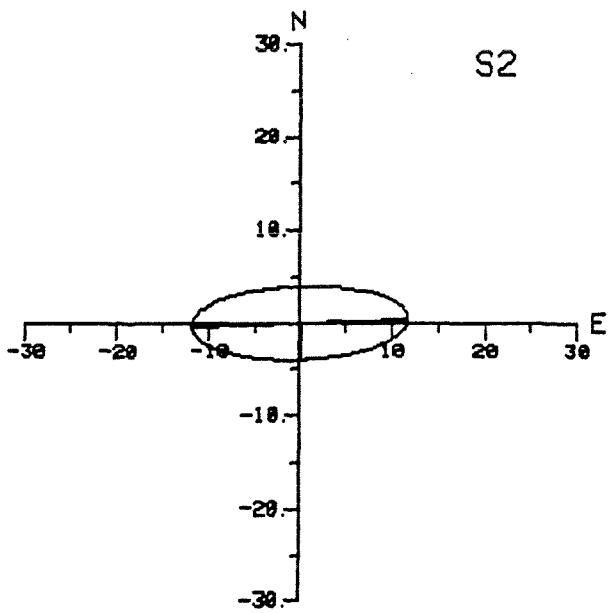
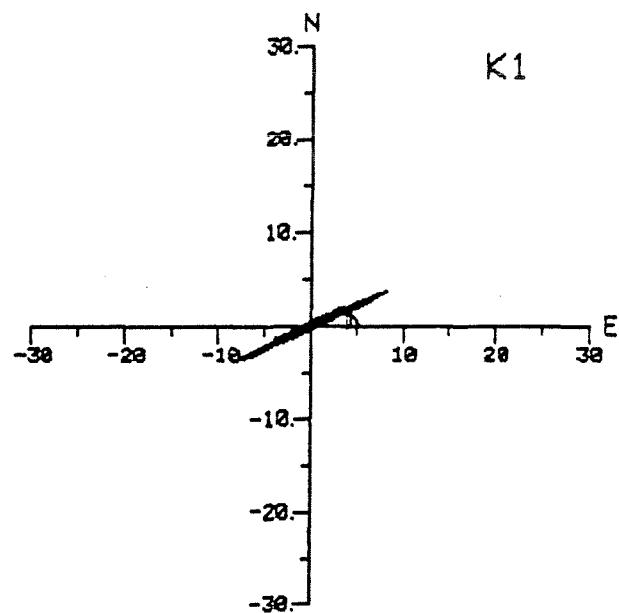
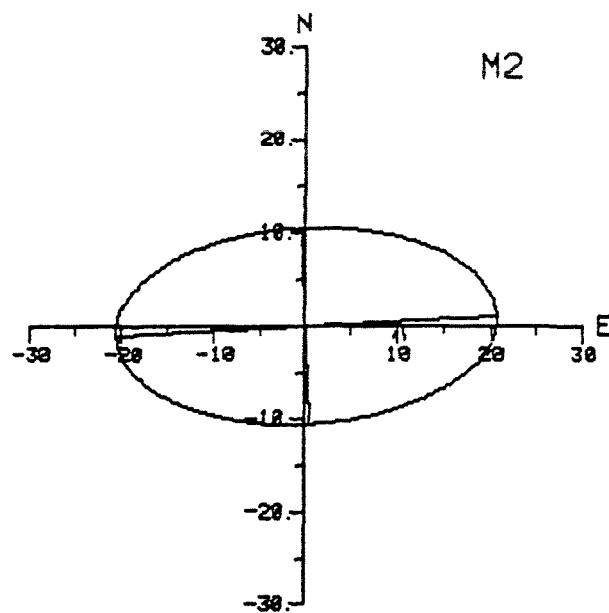
LONG: 65 27 30.0 W

START: 1900Z 10/ 3/85

END: 1700Z 28/ 4/85

NAME	FREQUENCY (CY/HR)	MAJOR (CM/S)	MINOR (CM/S)	INC	G	G+	G-
----	-----	-----	-----	---	---	---	---
1 ZO	0.00000000	3.653	0.000	28.2	180.0	151.8	208.2
2 MM	0.00151215	3.177	-0.081	23.8	315.5	291.7	339.2
3 MSF	0.00282193	0.710	-0.312	59.0	50.0	351.0	109.0
4 ALP1	0.03439657	0.583	-0.118	117.1	9.3	252.2	126.3
5 2Q1	0.03570635	0.908	0.000	1.5	38.6	37.1	40.2
6 Q1	0.03721850	0.611	-0.442	72.2	270.3	198.1	342.6
7 O1	0.03873065	5.050	0.303	30.4	286.7	256.2	317.1
8 N01	0.04026860	0.903	0.145	36.1	323.1	287.1	359.2
9 K1	0.04178075	8.935	-0.337	24.5	308.9	284.4	333.5
10 J1	0.04329290	1.027	-0.099	113.0	337.1	224.1	90.0
11 O01	0.04483084	0.211	-0.051	31.4	319.7	288.2	351.1
12 UPS1	0.04634299	0.044	0.021	56.0	21.6	325.6	77.6
13 EPS2	0.07617730	0.923	-0.262	145.2	210.5	65.3	355.8
14 MU2	0.07768947	1.515	0.767	118.7	199.1	80.3	317.8
15 N2	0.07899922	3.623	3.268	165.3	317.8	152.6	123.1
16 M2	0.08051139	20.688	10.518	2.9	186.6	183.7	189.5
17 L2	0.08202356	2.237	-0.719	121.4	275.3	153.9	36.8
18 S2	0.08333331	11.780	3.985	2.0	229.5	227.5	231.4
19 ETA2	0.08507365	0.737	0.089	12.4	18.6	6.2	31.0
20 M03	0.11924207	0.471	-0.274	71.9	280.2	208.3	352.2
21 M3	0.12076712	0.669	-0.300	153.3	2.9	209.6	156.2
22 MK3	0.12229216	0.505	-0.228	37.9	277.5	239.7	315.4
23 SK3	0.12511408	0.554	-0.197	54.6	1.8	307.2	56.4
24 MN4	0.15951067	1.324	-0.530	145.5	345.2	199.7	130.8
25 M4	0.16102278	2.313	-0.832	153.8	355.9	202.1	149.7
26 SN4	0.16233259	0.576	-0.359	145.8	53.9	268.1	199.8
27 MS4	0.16384470	2.266	-0.952	158.9	63.5	264.6	222.4
28 S4	0.16666669	0.779	-0.040	153.6	131.8	338.2	285.4
29 2MK5	0.20280355	0.538	-0.185	6.3	81.9	75.6	88.3
30 2SK5	0.20844740	0.294	0.075	126.2	322.8	196.6	88.9
31 2MN6	0.24002206	0.486	-0.130	17.0	315.7	298.7	332.7
32 M6	0.24153417	0.761	0.087	31.4	12.1	340.6	43.5
33 2MS6	0.24435616	1.014	0.110	34.9	62.2	27.3	97.1
34 2SM6	0.24717808	0.454	-0.095	64.3	113.5	49.2	177.7
35 3MK7	0.28331494	0.253	-0.064	48.0	0.9	312.9	48.9
36 M8	0.32204562	0.407	0.009	72.5	37.9	325.4	110.4

TIDAL CURRENT ELLIPSES

STN: KENNEDY CHANNEL WEST
81 12' N 65 28' WDEPTH (m): 7
AANDERAA RCM4 #6186TYPE: DESPIKED
DT (min): 60ARROWS INDICATE CONVENTION FOR ORIENTATION
OF CURRENT ELLIPSES. UNITS ARE CM/SEC.

Site: KENNEDY CHANNEL WEST
 Latitude: 81 12' N Longitude: 65 28' W
 TaPe: 6106/1
 DePth: 7 m
 Sample interval 20 min.
 Sample Period: 85/03/10 - 85/04/28

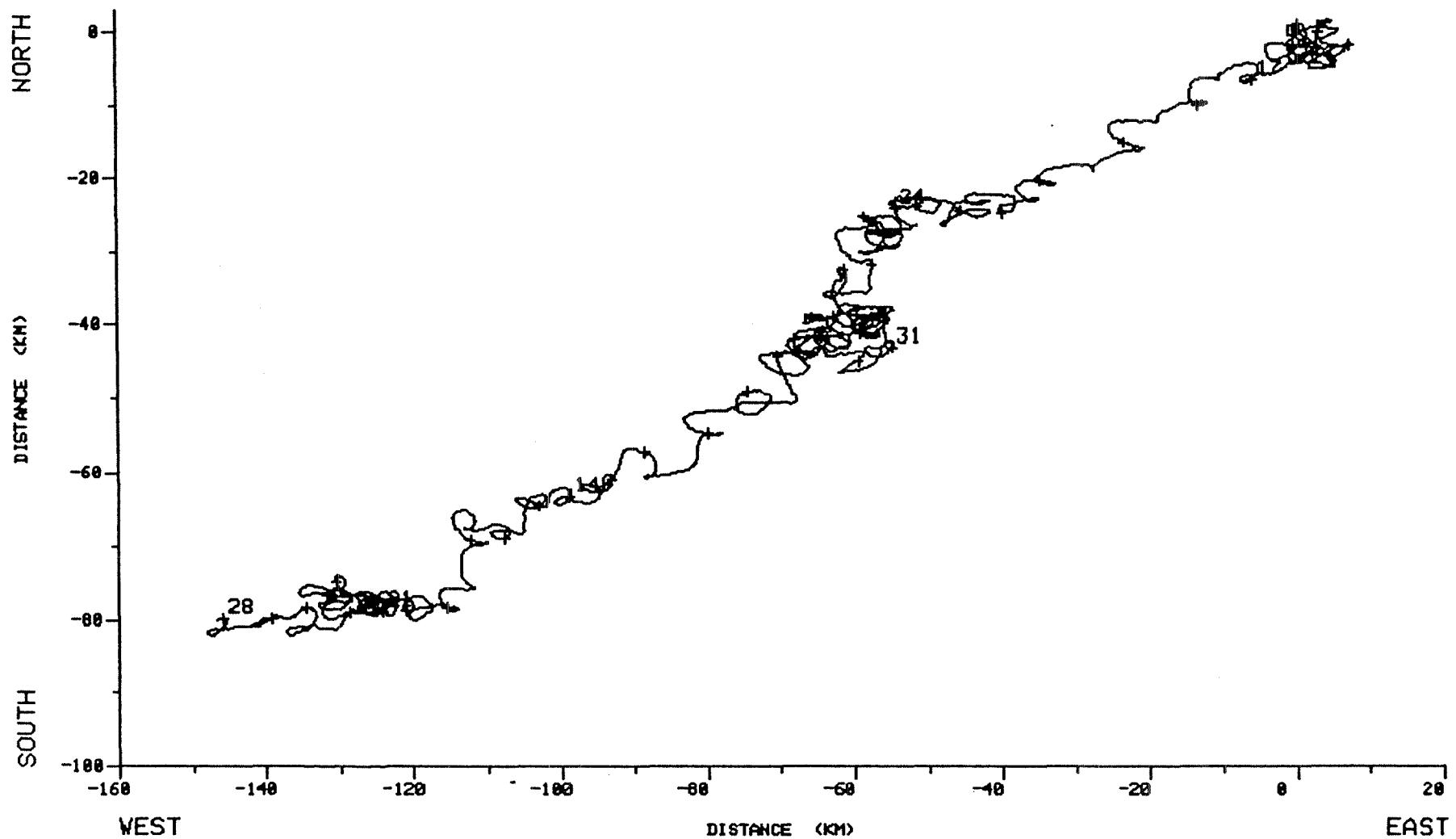
DIRECTION (DEG)	SPEED (CM/SEC)															62 03 96 166 150 288 150 150 160 155 118 114 123 85 143 184 285 282 355 345 283 71 53 32 63
	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	
0.0 to 15.0	2	6	14	18	17	5										62
15.0 to 30.0	2	3	10	24	31	9	4									03
30.0 to 45.0	1	9	12	18	31	13	6									96
45.0 to 60.0	3	7	16	32	55	33	11	5	2	1						166
60.0 to 75.0	1	10	14	26	49	34	12	2	1							150
75.0 to 90.0	4	16	29	42	48	34	28	5	1							288
90.0 to 105.0	4	5	19	25	60	34	8	2	1							150
105.0 to 120.0	5	21	26	28	30	29	18	3								160
120.0 to 135.0	7	19	33	32	29	16	11	1								155
135.0 to 150.0	9	16	23	14	22	17	9	4	2							118
150.0 to 165.0	6	12	20	20	31	14	6	5								114
165.0 to 180.0	5	16	25	42	13	11	11									123
180.0 to 195.0	3	10	10	33	28	9										85
195.0 to 210.0	4	19	33	47	24	11	4	1								143
210.0 to 225.0	3	12	11	28	29	16	5									184
225.0 to 240.0	5	19	44	36	44	31	18	5	3							285
240.0 to 255.0	4	26	49	55	54	42	28	18	10	2						282
255.0 to 270.0	6	17	33	41	61	58	51	31	31	21	13					355
270.0 to 285.0	1	28	43	66	38	41	49	39	28	7	5					345
285.0 to 300.0	1	22	29	42	33	23	40	9	2							283
300.0 to 315.0	2	12	10	11	14	14	7		1							71
315.0 to 330.0	3	7	11	17	5	9	1									53
330.0 to 345.0	1	8	8	9	3	3										32
345.0 to 360.0	3	14	14	18	10	4										63

65 328 540 721 751 504 327 138 91 31 18 0 0 0 0 3534

PROGRESSIVE VECTOR DIAGRAM

KENNEDY CHANNEL WEST TAPE 6186/1 DEPTH(m) 7
81 12' N 65 28' W AANDERAA RCM
TIME INTERVAL 10/ 3/85 - 28/ 4/85

TYPE DESPIKED
DT(min) 20
LABELS ARE DAYS



EASTERN ARCTIC TIDAL SURVEY, 1985

SPECTRAL ANALYSIS RESULTS

STN: KENNEDY CHANNEL WEST LAT: 81 12 0.0 N
 DEPTH: 7 m LONG: 65 27 30.0 W
 START: 1740Z 10/ 3/85 END: 2240Z 24/ 3/85
 DT = 1.0000 HOUR NO.PTS = 1024 (NO.AUG = 1024)
 NO.OF BANDS = 124 DEGREES OF FREEDOM = 8.827
 MEAN AND LINEAR TREND REMOVED
 COSINE TAPER APPLIED TO ENDS OF EACH SERIES

AUTO-SPECTRAL DENSITY

BAND NO.	FREQUENCY (CYC/HR)	U SPEED CM/S**2-HR	V SPEED CM/S**2-HR
0	0.0024	1222.0	712.43
1	0.0083	710.96	378.14
2	0.0161	424.68	843.07
3	0.0239	503.13	962.00
4	0.0322	264.51	201.49
5	0.0405	153.24	224.70
6	0.0483	123.24	145.63
7	0.0562	107.19	140.17
8	0.0645	88.398	154.38
9	0.0728	68.693	166.06
10	0.0806	267.71	289.05
11	0.0884	80.595	91.990
12	0.0967	103.61	149.58
13	0.1050	113.26	128.04
14	0.1128	79.735	64.479
15	0.1206	39.813	89.704
16	0.1289	32.391	99.913
17	0.1372	25.025	31.725
18	0.1450	30.553	69.120
19	0.1533	45.702	61.679
20	0.1616	38.521	35.155
21	0.1694	43.681	41.089
22	0.1772	34.085	37.714
23	0.1855	26.911	24.194
24	0.1938	19.697	30.603
25	0.2017	31.791	27.416
26	0.2095	21.924	12.901
27	0.2178	16.597	16.934
28	0.2261	21.098	21.817
29	0.2339	24.942	16.890
30	0.2417	8.2029	7.2515
31	0.2500	11.231	8.6831

EASTERN ARCTIC TIDAL SURVEY, 1985

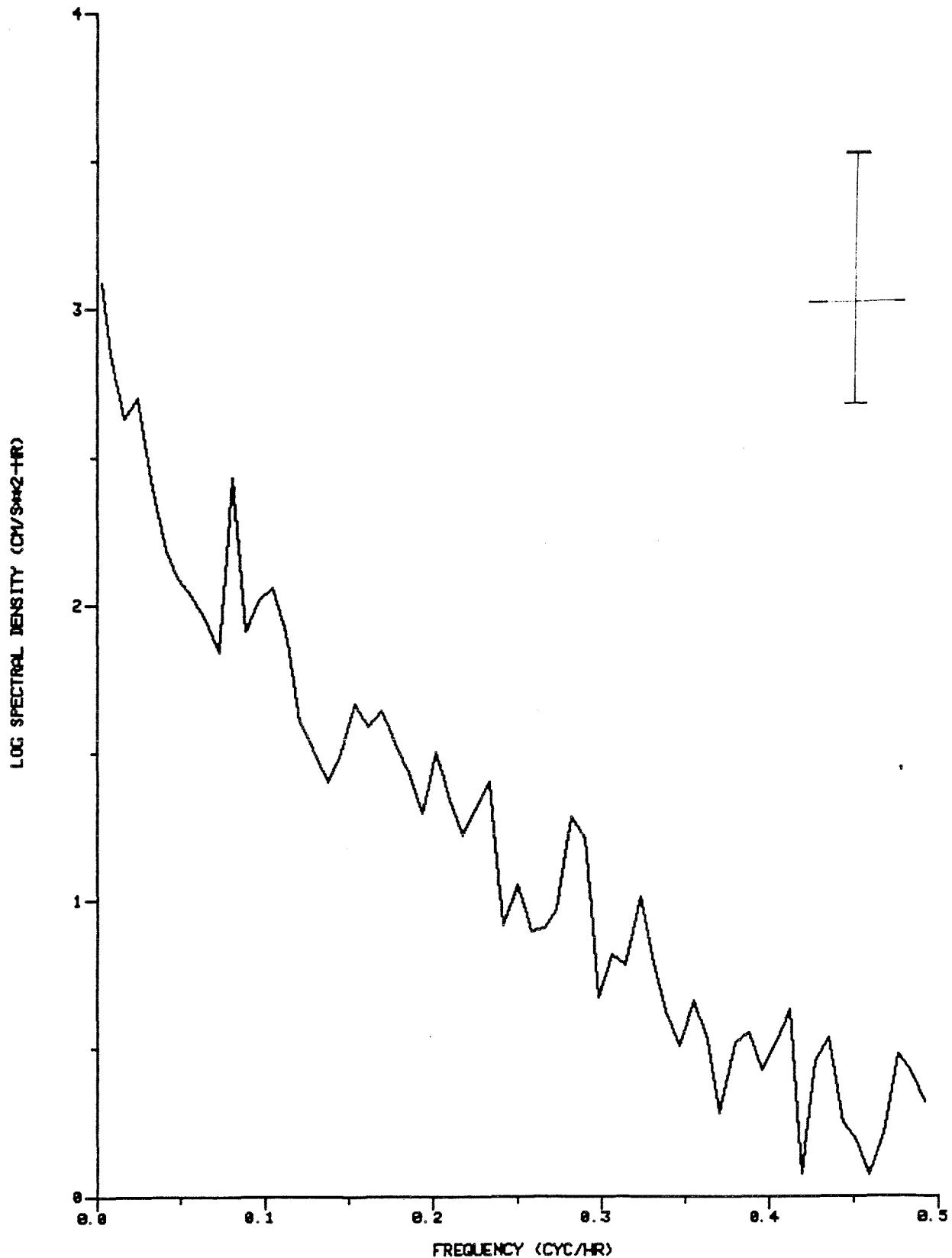
SPECTRAL ANALYSIS RESULTS

STN: KENNEDY CHANNEL WEST LAT: 81 12 0.0 N
 DEPTH: 7 m LONG: 65 27 30.0 W
 START: 1740Z 10/ 3/85 END: 2240Z 24/ 3/85
 DT = 1.0000 HOUR NO.PTS = 1024 (NO.AUG = 1024)
 NO.OF BANDS = 124 DEGREES OF FREEDOM = 8.827
 MEAN AND LINEAR TREND REMOVED
 COSINE TAPER APPLIED TO ENDS OF EACH SERIES

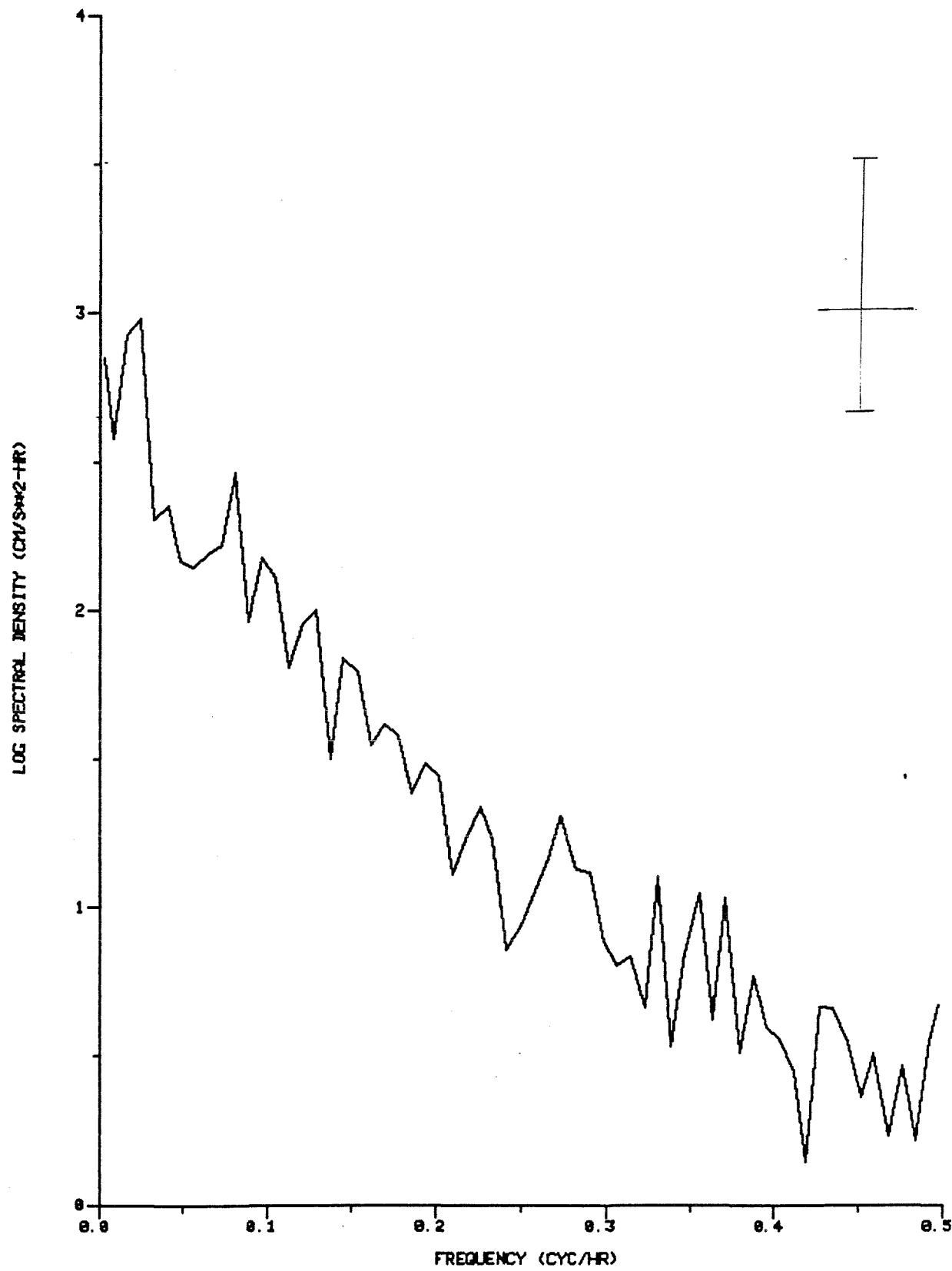
AUTO-SPECTRAL DENSITY

BAND NO.	FREQUENCY (CYC/HR)	U SPEED CM/S**2-HR	V SPEED CM/S**2-HR
32	0.2583	7.8775	11.399
33	0.2661	8.0118	14.775
34	0.2739	9.1916	20.441
35	0.2822	18.946	13.334
36	0.2905	16.224	13.143
37	0.2983	4.6707	7.7158
38	0.3062	6.4968	6.3896
39	0.3145	6.0370	6.8367
40	0.3228	10.214	4.5990
41	0.3306	6.4848	12.656
42	0.3384	4.1967	3.4059
43	0.3467	3.2021	7.0736
44	0.3550	4.5644	11.093
45	0.3628	3.3766	4.2119
46	0.3706	1.9106	10.693
47	0.3789	3.2723	3.2442
48	0.3872	3.5831	5.8604
49	0.3950	2.6821	3.9654
50	0.4033	3.2475	3.6053
51	0.4116	4.2535	2.7891
52	0.4194	1.1914	1.3878
53	0.4272	2.8719	4.6118
54	0.4355	3.4229	4.5359
55	0.4438	1.7559	3.5092
56	0.4517	1.5383	2.3065
57	0.4595	1.1692	3.2147
58	0.4678	1.6250	1.6894
59	0.4761	2.9957	2.9136
60	0.4839	2.6105	1.6403
61	0.4917	2.0566	3.5570
62	0.4976	0.48767	4.6727

LOG OF U COMPONENT SPEED SPECTRAL DENSITY vs FREQUENCY

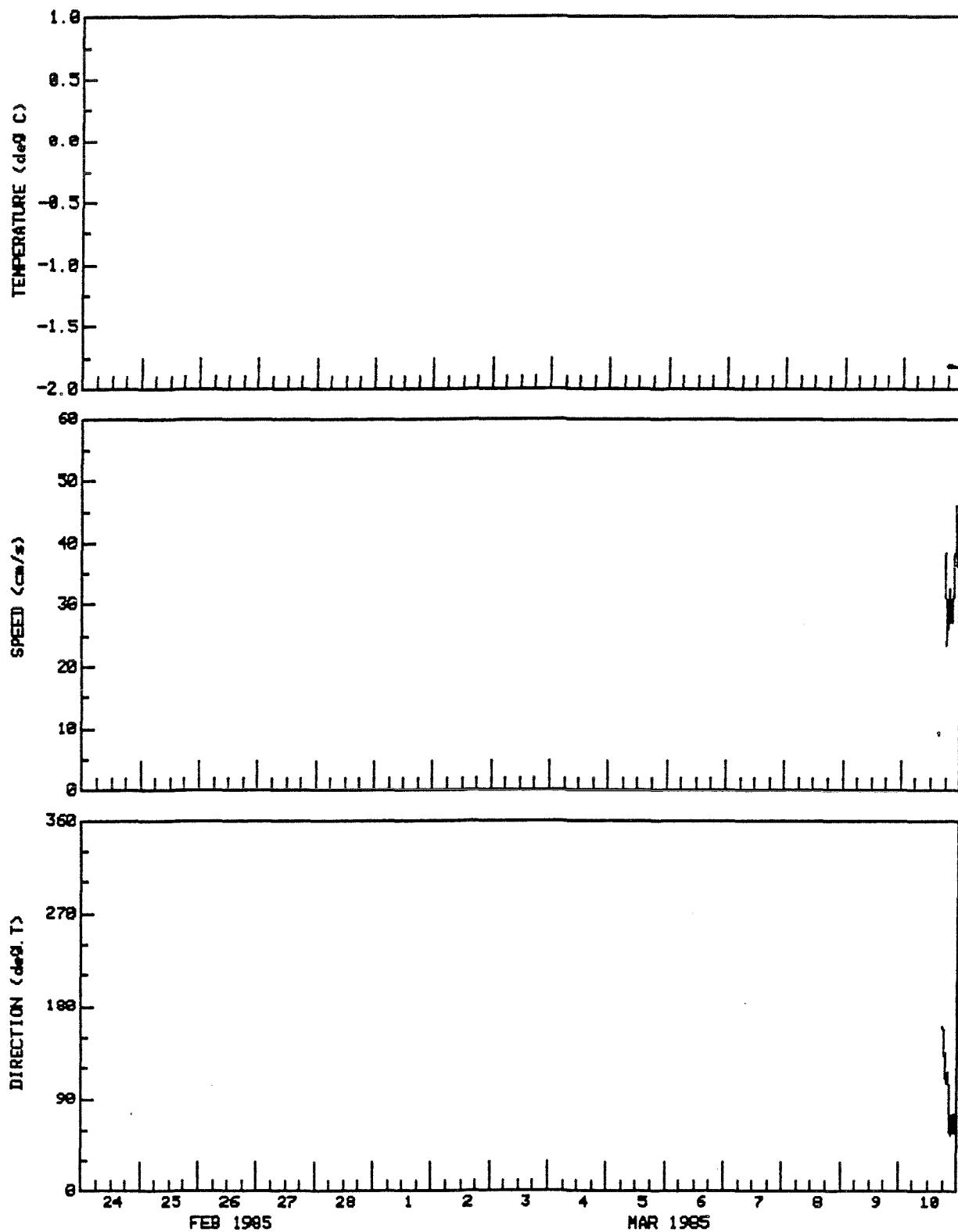
SITE #4 KENNEDY CHANNEL W.
81 12' 00"N 65 27' 30"WMETER 6186/1
AANDERAA RCMDEPTH(m) 7
DT(min) 20

LOG OF V COMPONENT SPEED SPECTRAL DENSITY vs FREQUENCY
SITE #4 KENNEDY CHANNEL W. METER 6186/1 DEPTH(m) 7
81 12' 00"N 65 27' 30"W AANDERAA RCM DT(min) 20



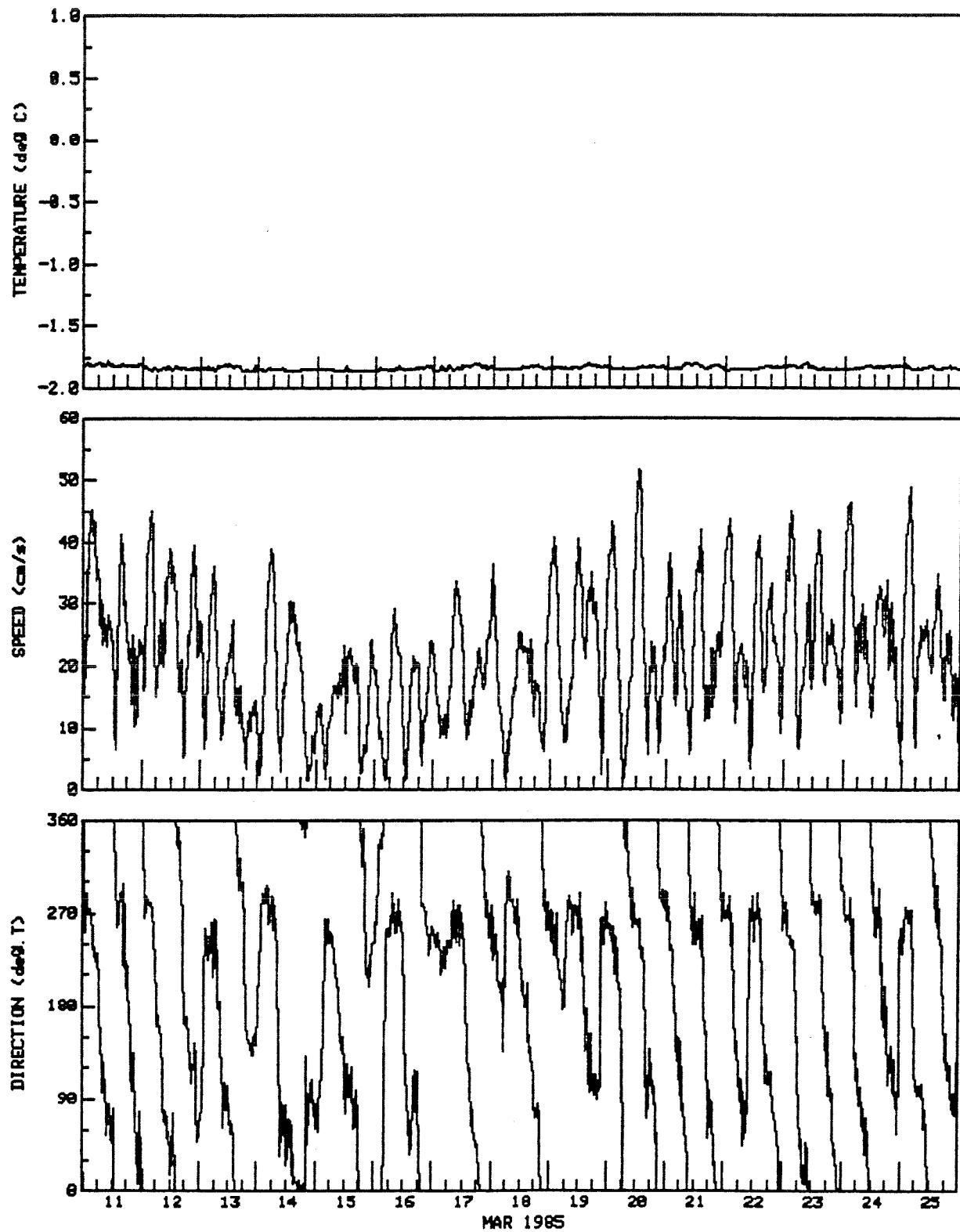
TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION

SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM DT(min) 20



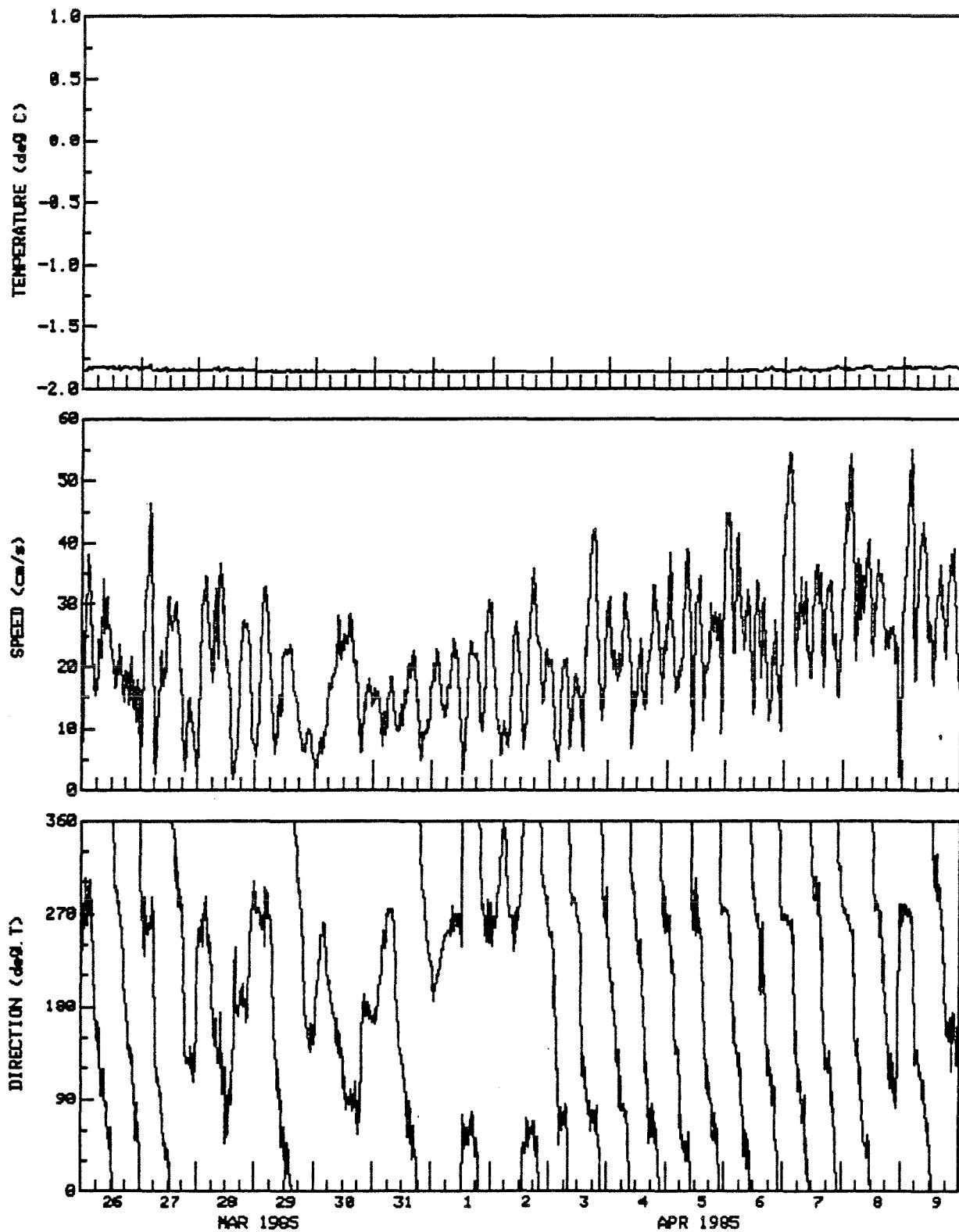
TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION

SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7
81 12' 00"N 65 27' 30"W AANDERAA RCM
TYPE DESPIKED DT(min) 20



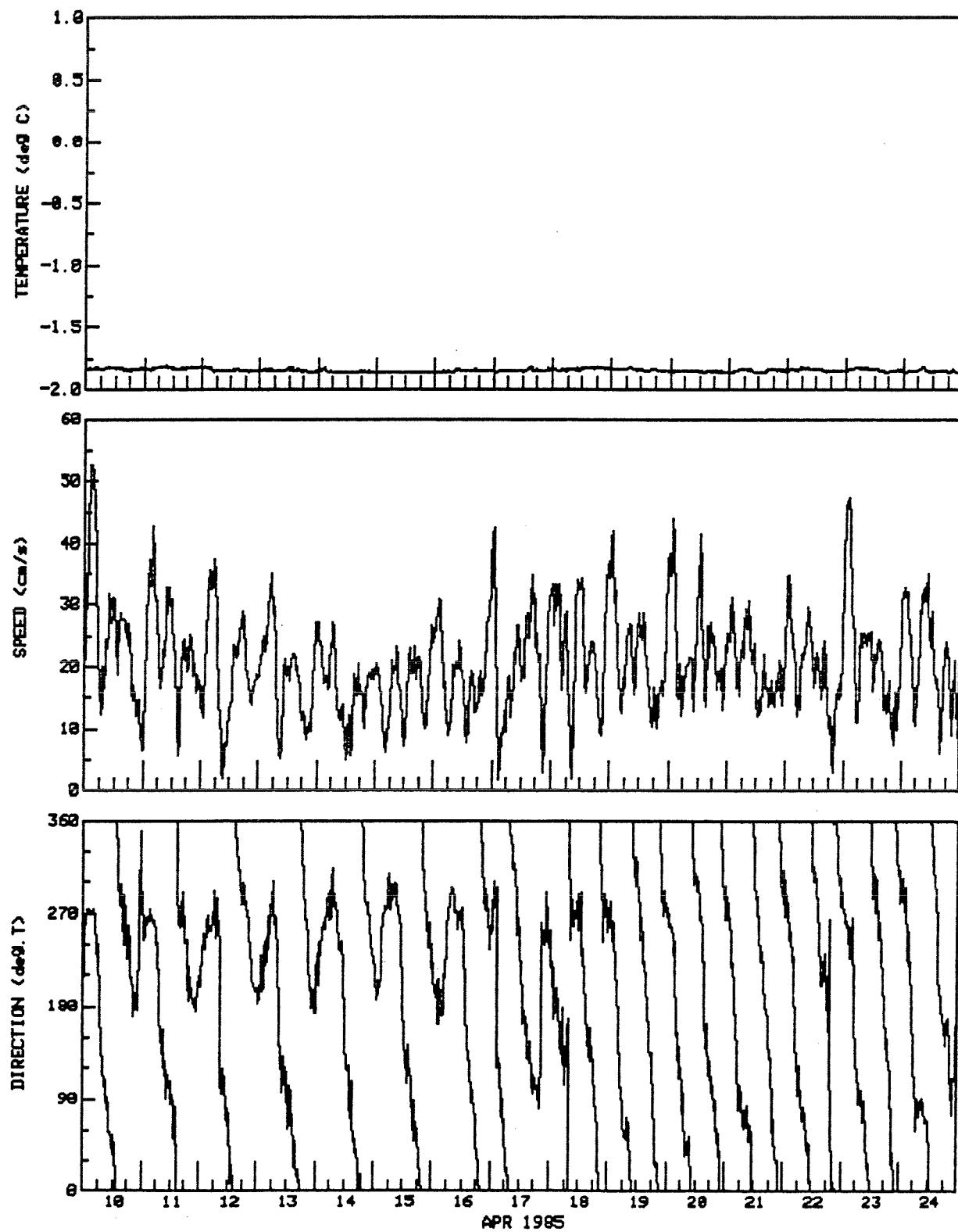
TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION

SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM DT(min) 20



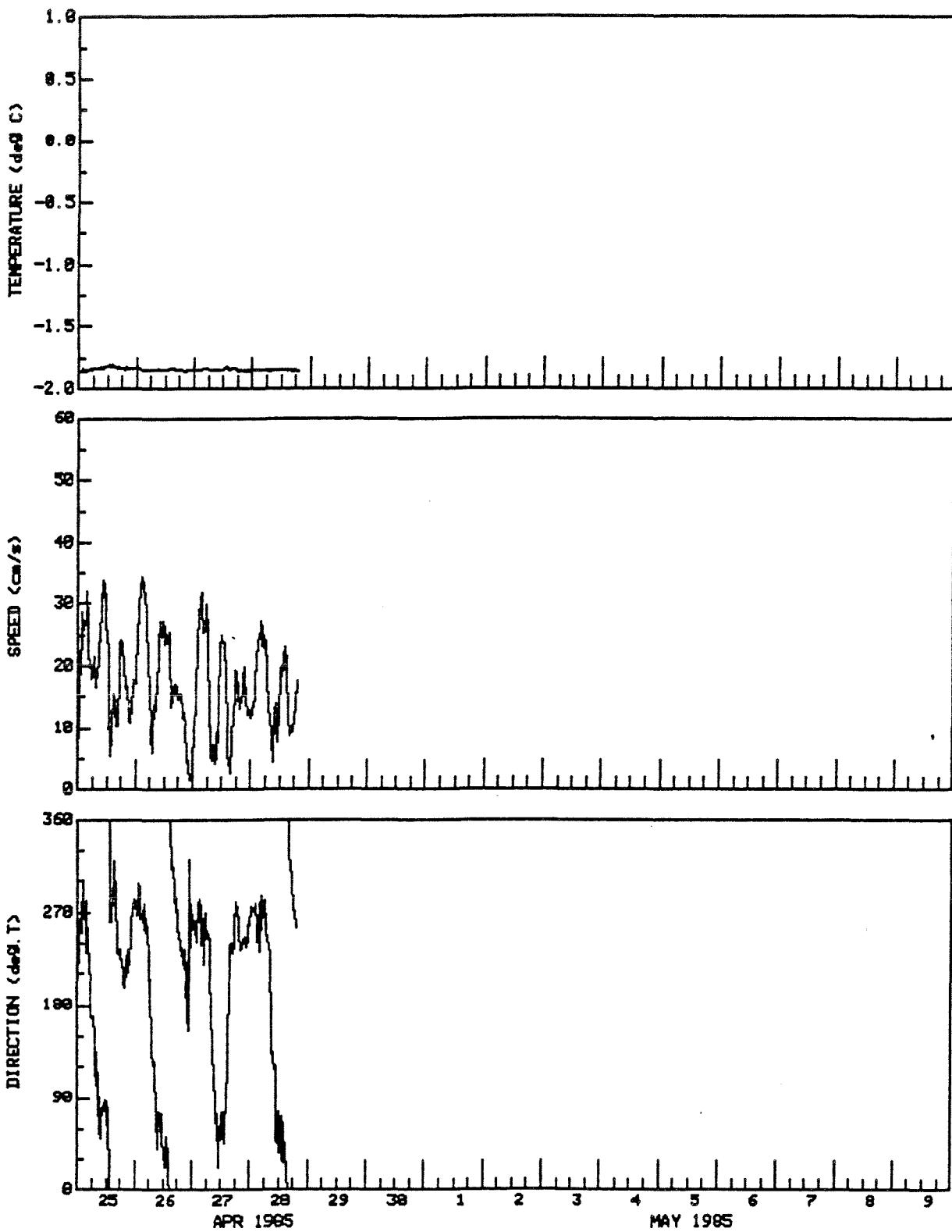
TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION

SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM DT(min) 20

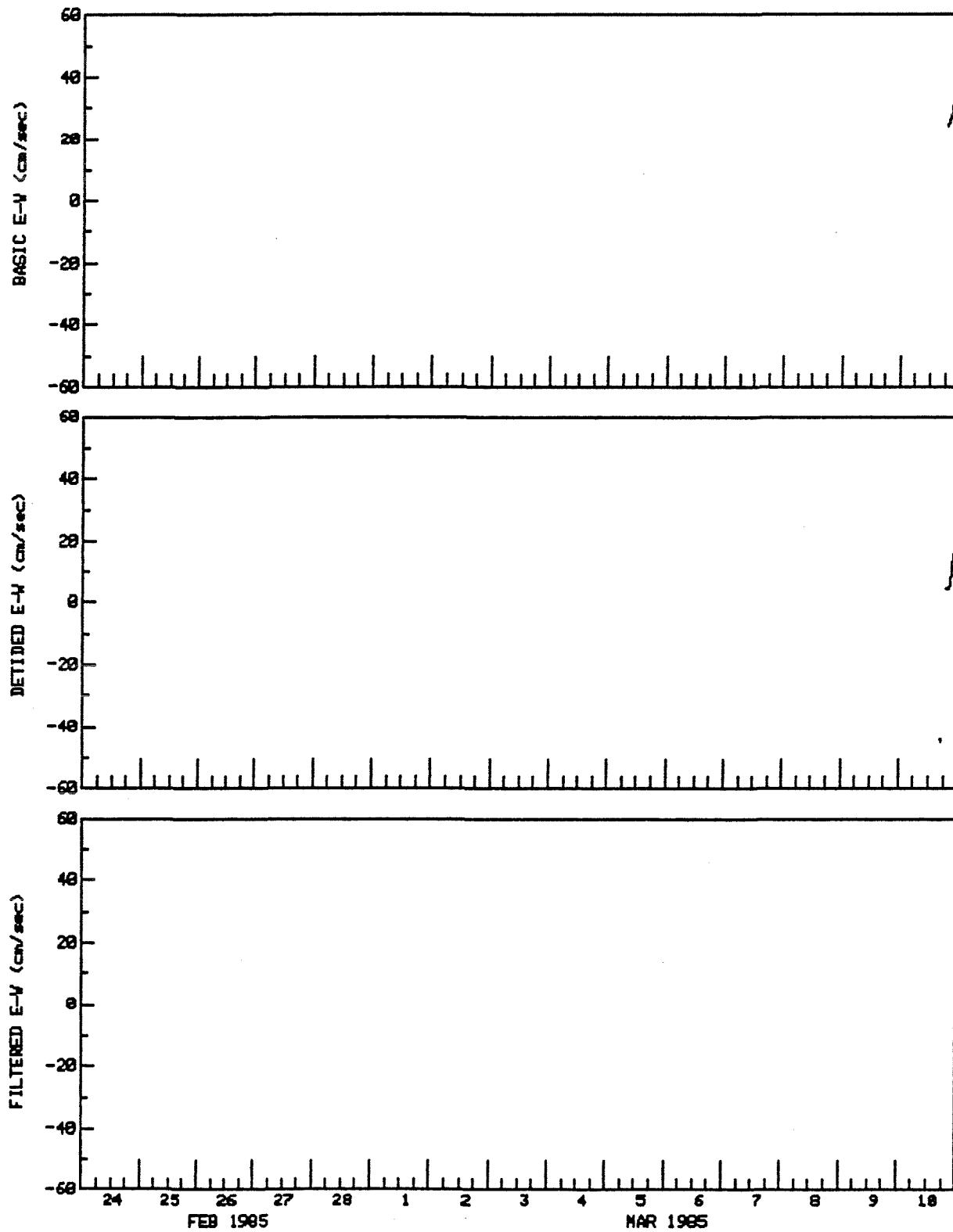


TIME SERIES OF TEMPERATURE, SPEED, AND DIRECTION

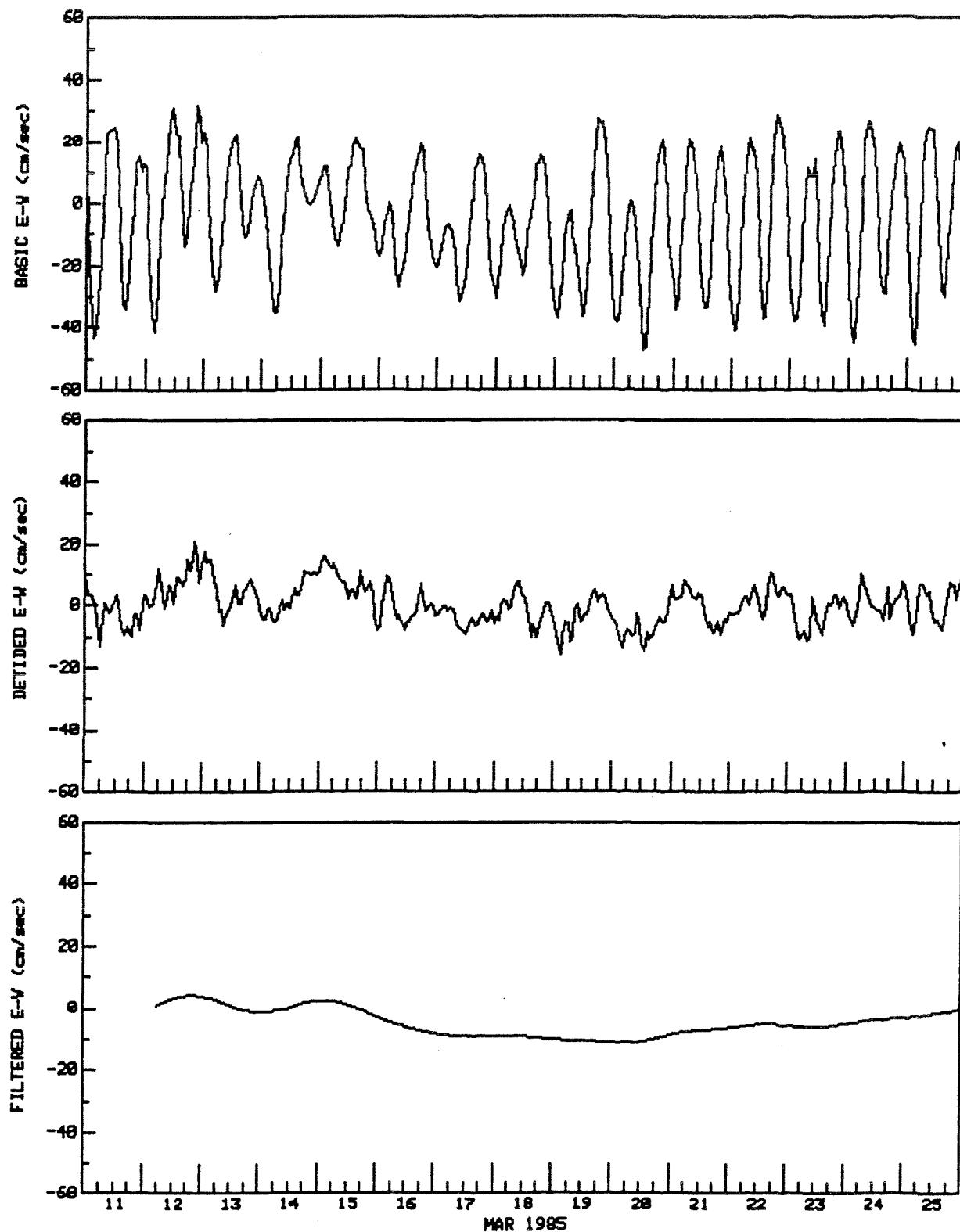
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM DT(min) 20



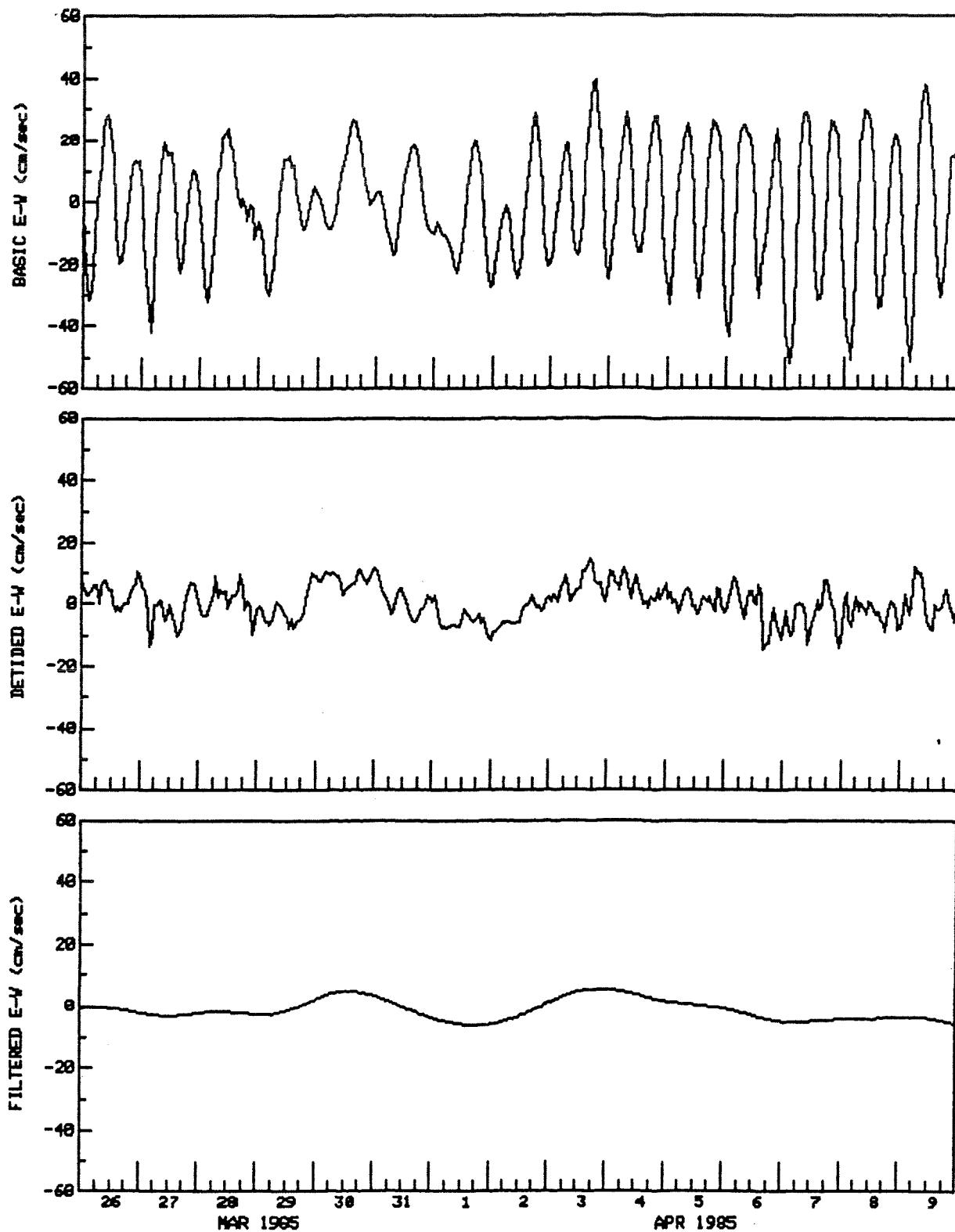
TIME SERIES OF BASIC, DETIDED, AND FILTERED U
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED U
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60

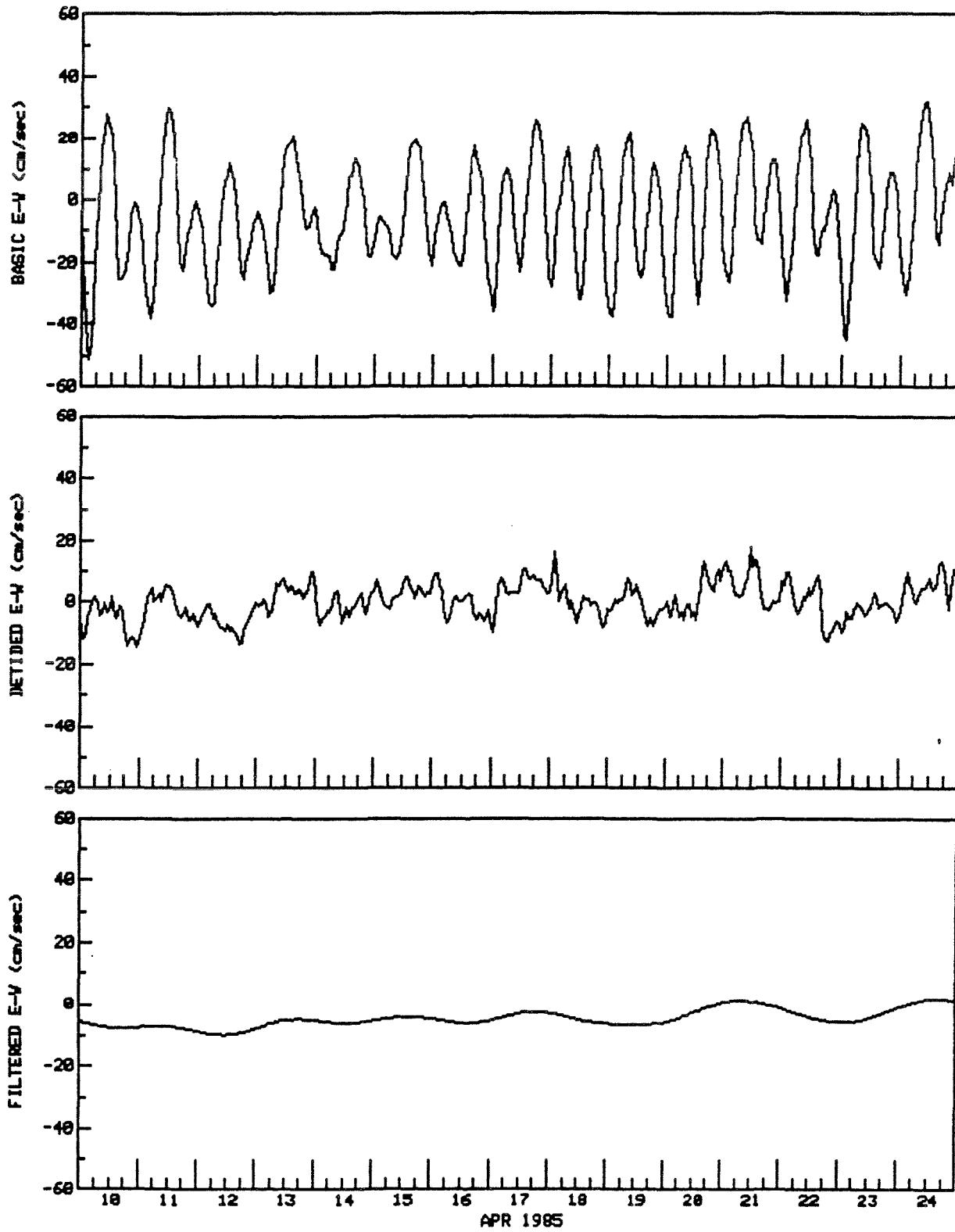


TIME SERIES OF BASIC, DETIDED, AND FILTERED U
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60

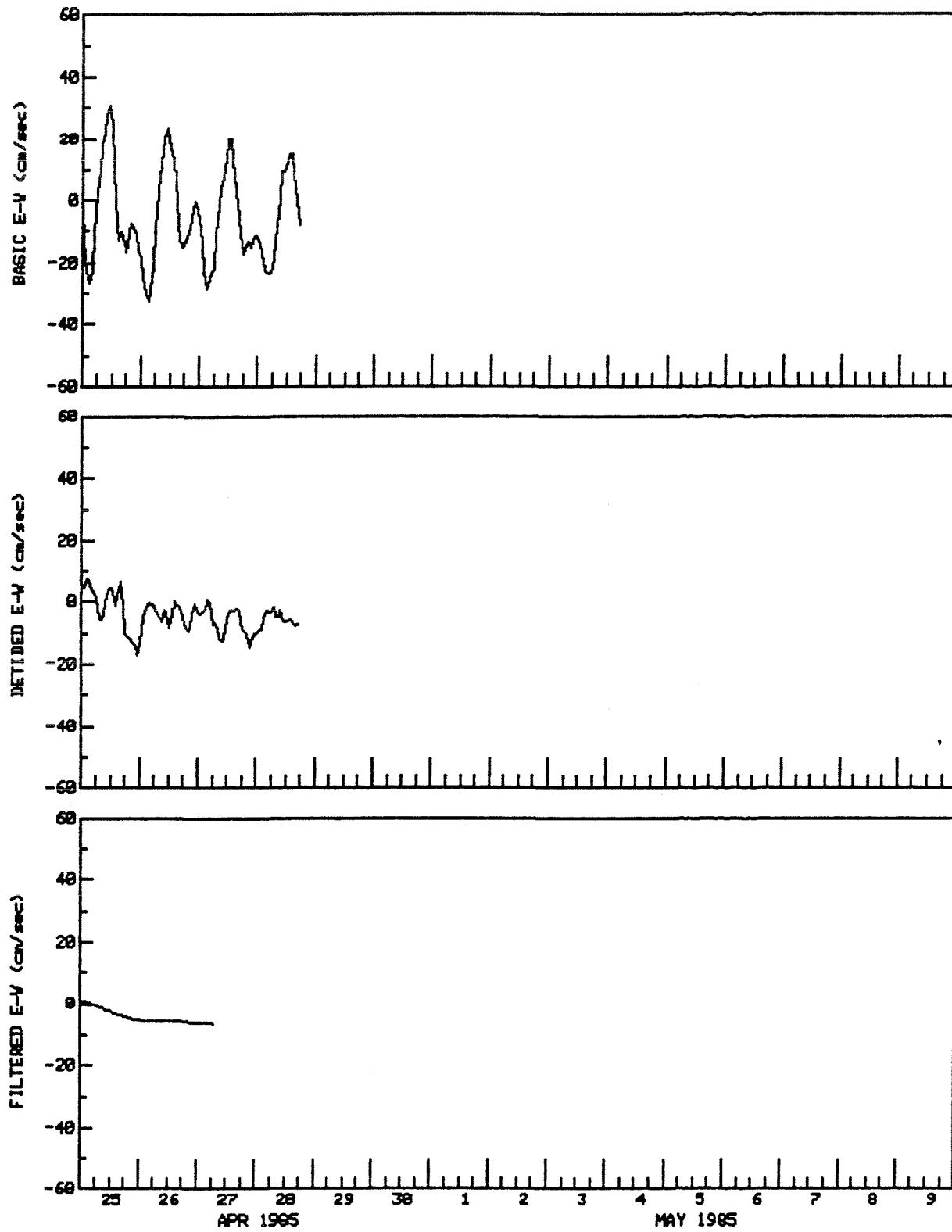


TIME SERIES OF BASIC, DETIDED, AND FILTERED U

SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60

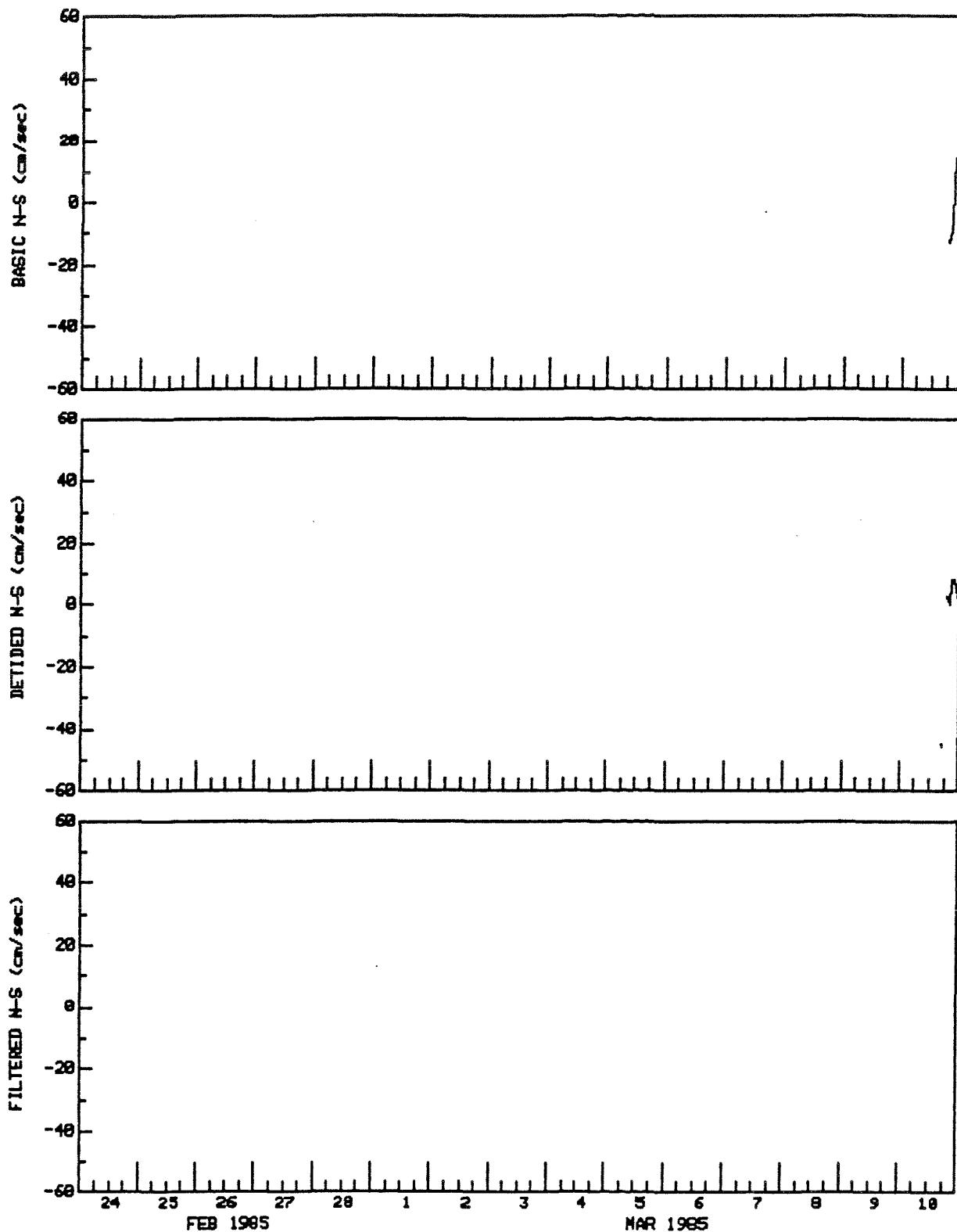


TIME SERIES OF BASIC, DETIDED, AND FILTERED U
SITE #4 KENNEDY CHANNEL W. DEPTH(m) ? TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60

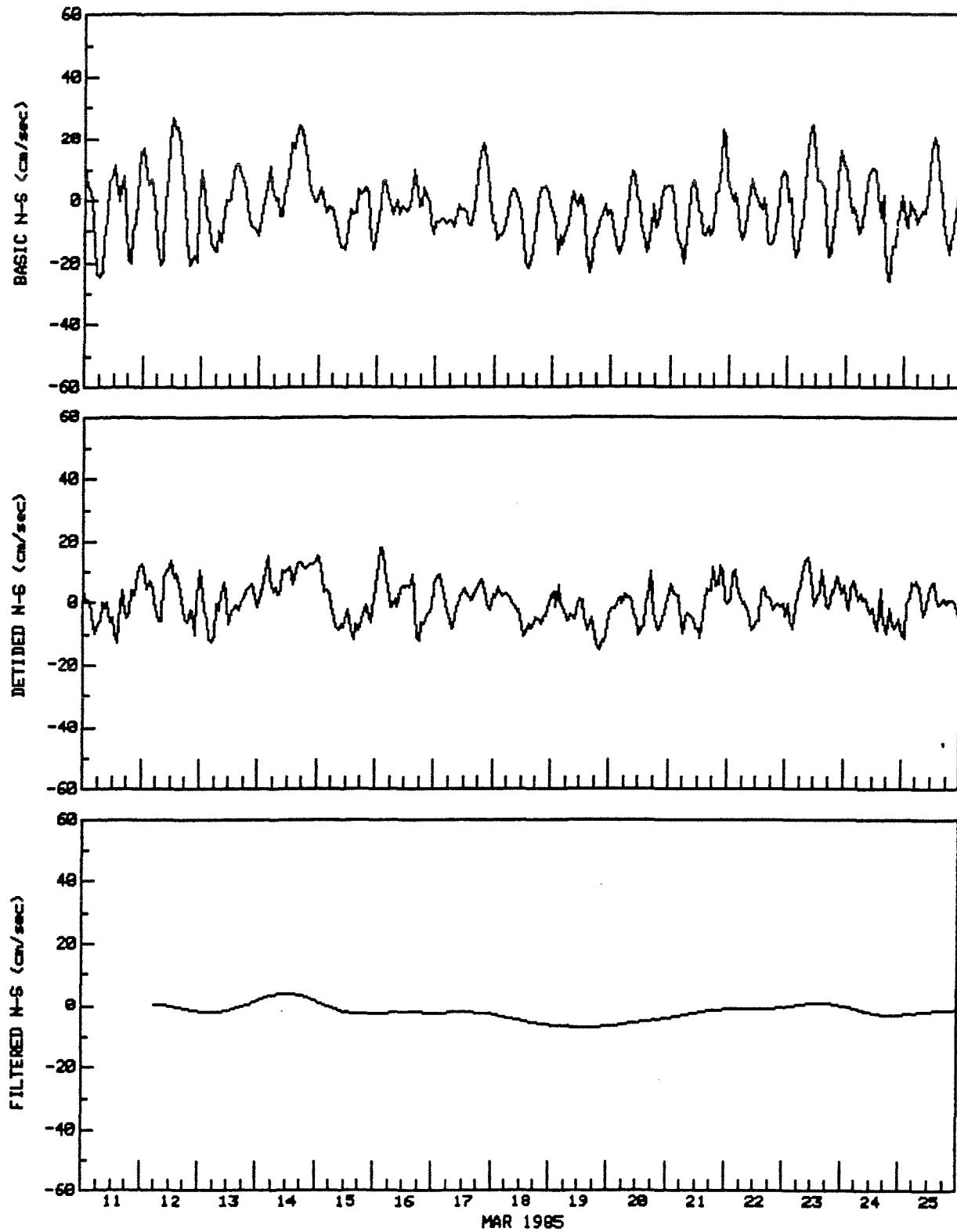


TIME SERIES OF BASIC, DETIDED, AND FILTERED V

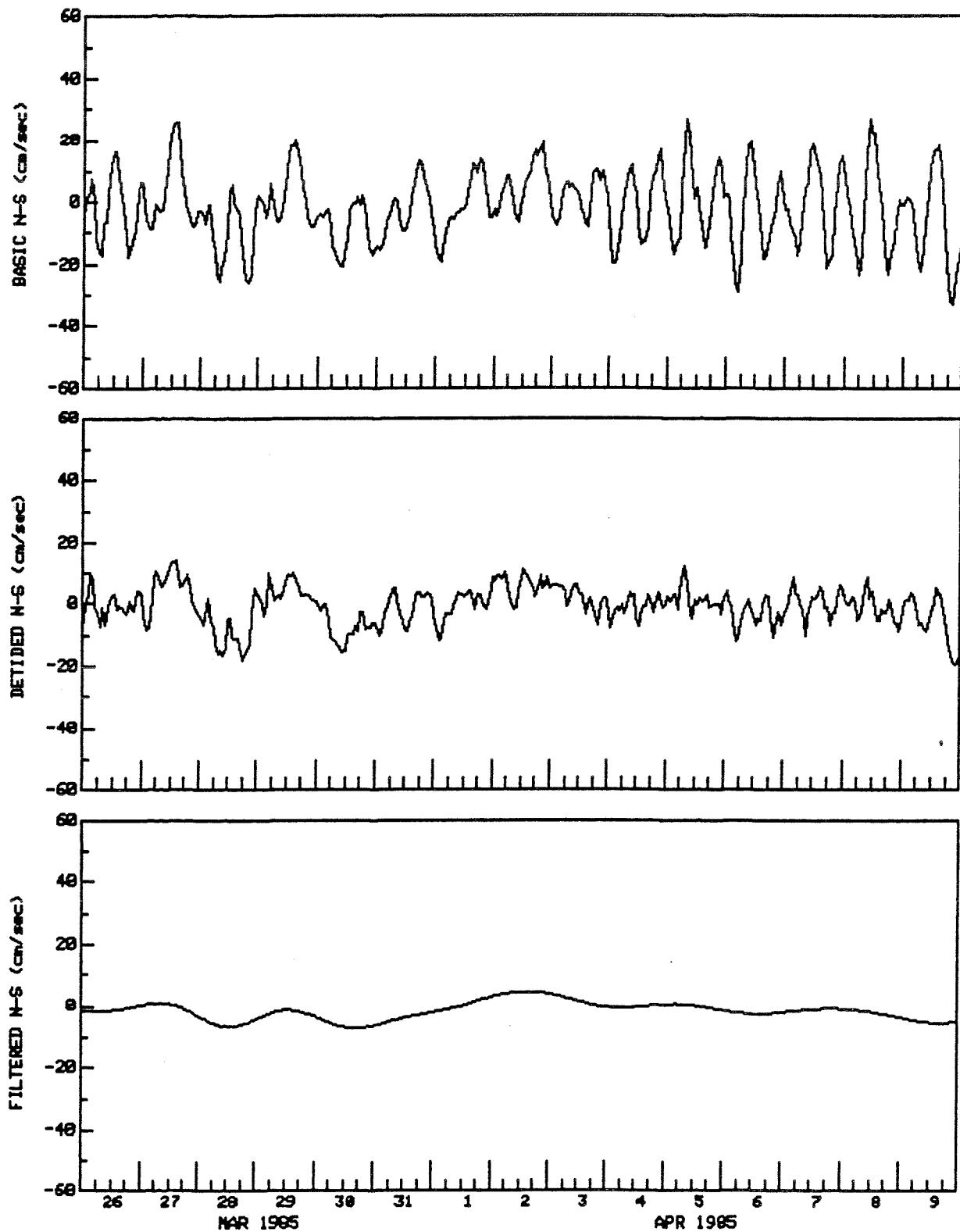
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60



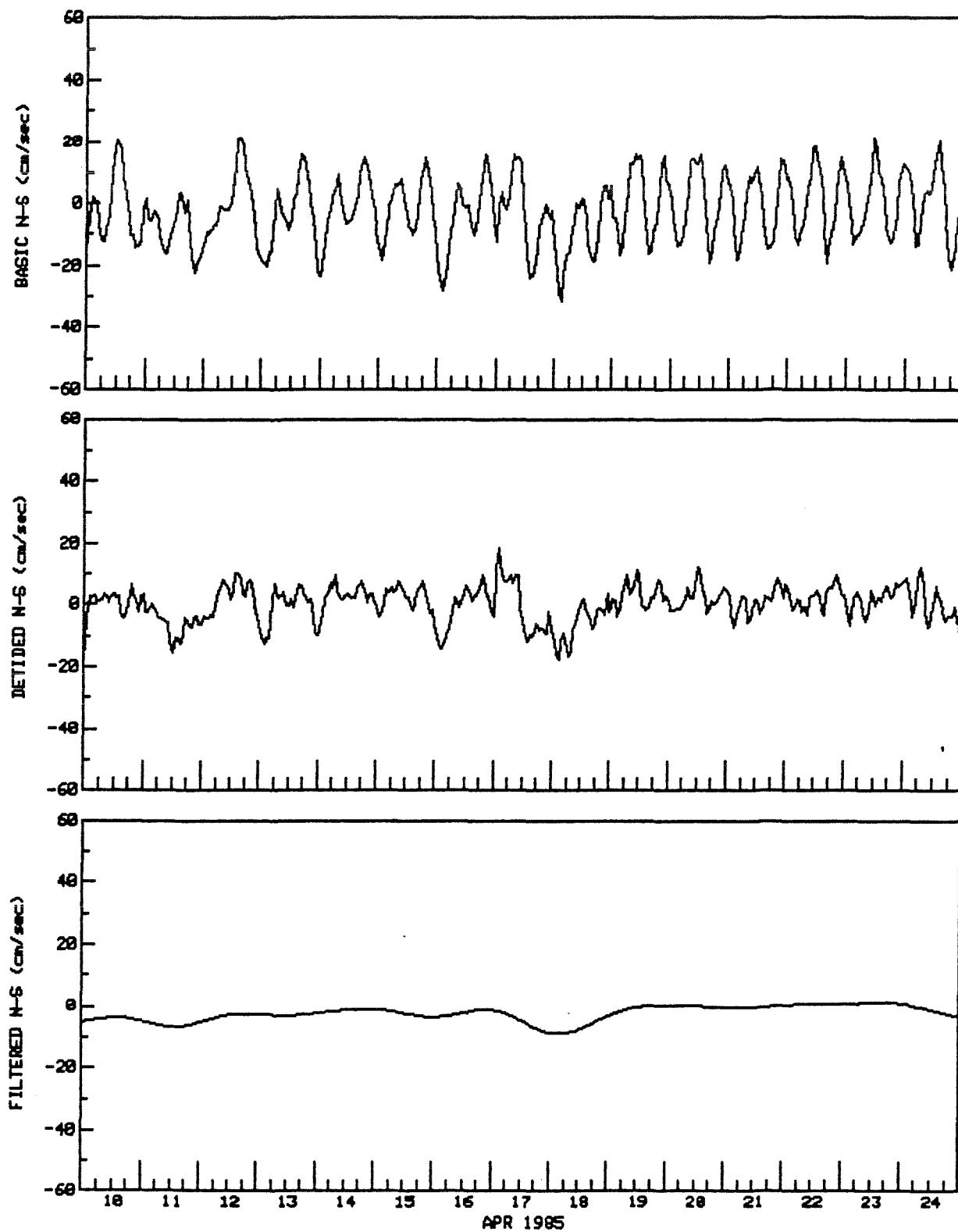
TIME SERIES OF BASIC, DETIDED, AND FILTERED V
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60



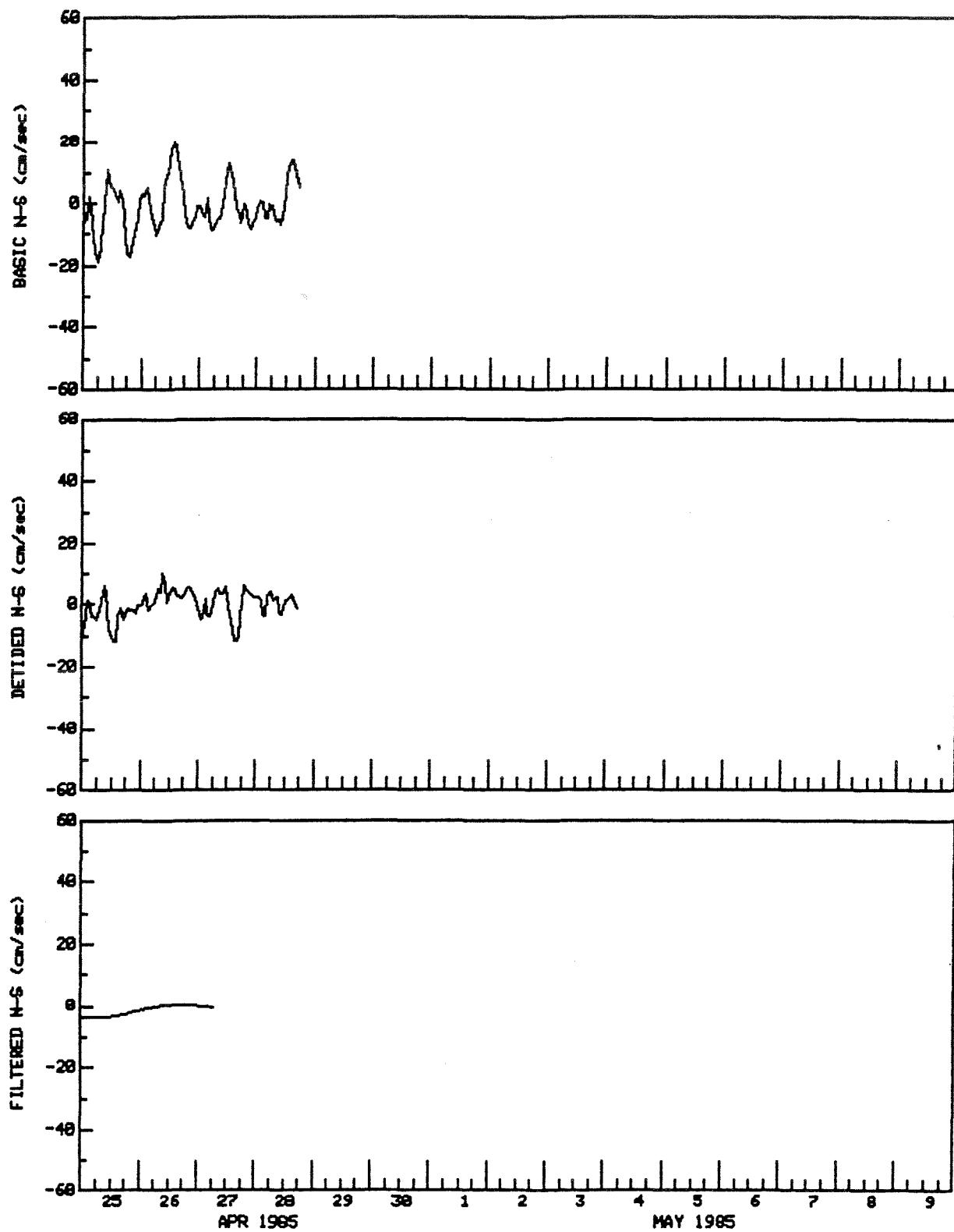
TIME SERIES OF BASIC, DETIDED, AND FILTERED V
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED V
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60



TIME SERIES OF BASIC, DETIDED, AND FILTERED V
SITE #4 KENNEDY CHANNEL W. DEPTH(m) 7 TYPE DESPIKED
81 12' 00"N 65 27' 30"W AANDERAA RCM4 #6186 DT(min) 60



SITE CM# 5CURRENT METER # 6137

AUTO SPECTRUM (SPEED)

TIME SERIES PLOTS

Site: CM# 5 Robeson Channel
Position: 81°56'36"N 61°58'54"W
Meter #: Aanderaa RCM4 no. 6137

Date/Time of Deployment: 9 Mar 85 1836
Date/Time of Recovery: 28 Apr 85 2329
Sampling Interval: 20 min
Number of Samples: 3805

Statistics:	Minimum	Maximum	Mean	Std Dev
Speed	0.0	46.130	17.146	8.253

Data Quality: No direction data
No temperature data

Data Processing Sequence: No tidal analysis performed but spectral analysis of speed and plot of auto spectrum generated

EASTERN ARCTIC TIDAL SURVEY, 1985

SPECTRAL ANALYSIS RESULTS

STN: ROBESON CHANNEL LAT: 81 56 36.0 N
 DEPTH: 7 m LONG: 61 58 54.0 W
 START: 2000Z 10/ 3/85 END: 1100Z 22/ 4/85
 DT = 1.0000 HOUR NO.PTS = 1024 (NO.AUG = 1024)
 NO.OF BANDS = 100 DEGREES OF FREEDOM = 10.946
 MEAN AND LINEAR TREND REMOVED
 COSINE TAPER APPLIED TO ENDS OF EACH SERIES

AUTO-SPECTRAL DENSITY

BAND NO.	FREQUENCY (CYC/HR)	SPEED (CM/S**2-HR)
0	0.0029	3242.4
1	0.0103	148.27
2	0.0200	63.728
3	0.0298	69.228
4	0.0400	615.97
5	0.0503	74.332
6	0.0601	93.750
7	0.0698	119.29
8	0.0801	2531.7
9	0.0903	135.34
10	0.1001	67.918
11	0.1099	37.173
12	0.1196	374.87
13	0.1299	91.767
14	0.1401	18.212
15	0.1499	18.376
16	0.1597	669.26
17	0.1699	30.283
18	0.1802	22.980
19	0.1899	32.420
20	0.1997	36.447
21	0.2100	13.397
22	0.2202	13.430
23	0.2300	11.260
24	0.2397	28.572
25	0.2500	18.634

EASTERN ARCTIC TIDAL SURVEY, 1985

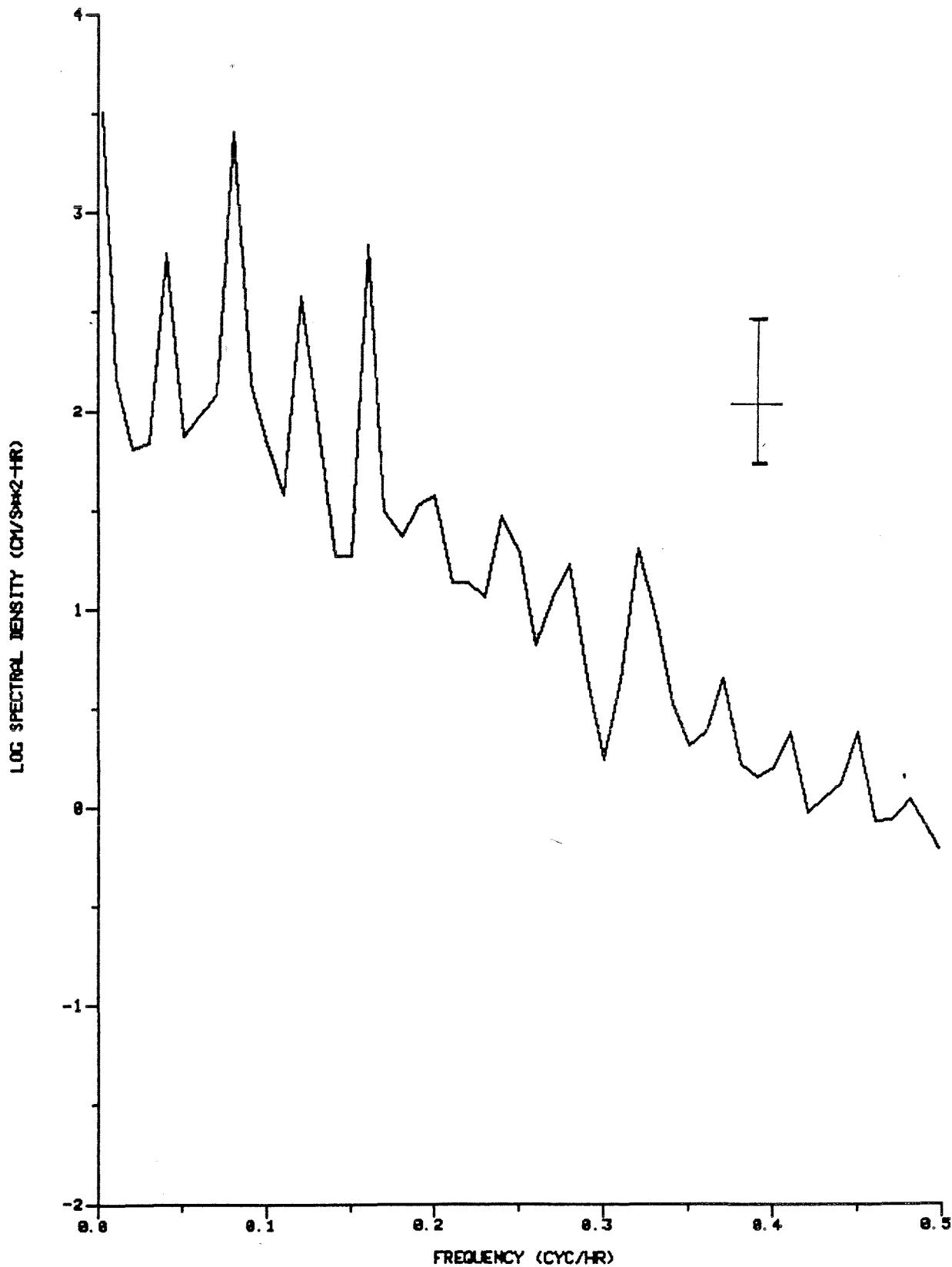
SPECTRAL ANALYSIS RESULTS

STN: ROBESON CHANNEL LAT: 81 56 36.0 N
 DEPTH: 7 m LONG: 61 58 54.0 W
 START: 2000Z 10/ 3/85 END: 1100Z 22/ 4/85
 DT = 1.0000 HOUR NO.PTS = 1024 (NO.AUG = 1024)
 NO.OF BANDS = 100 DEGREES OF FREEDOM = 10.946
 MEAN AND LINEAR TREND REMOVED
 COSINE TAPER APPLIED TO ENDS OF EACH SERIES

AUTO-SPECTRAL DENSITY

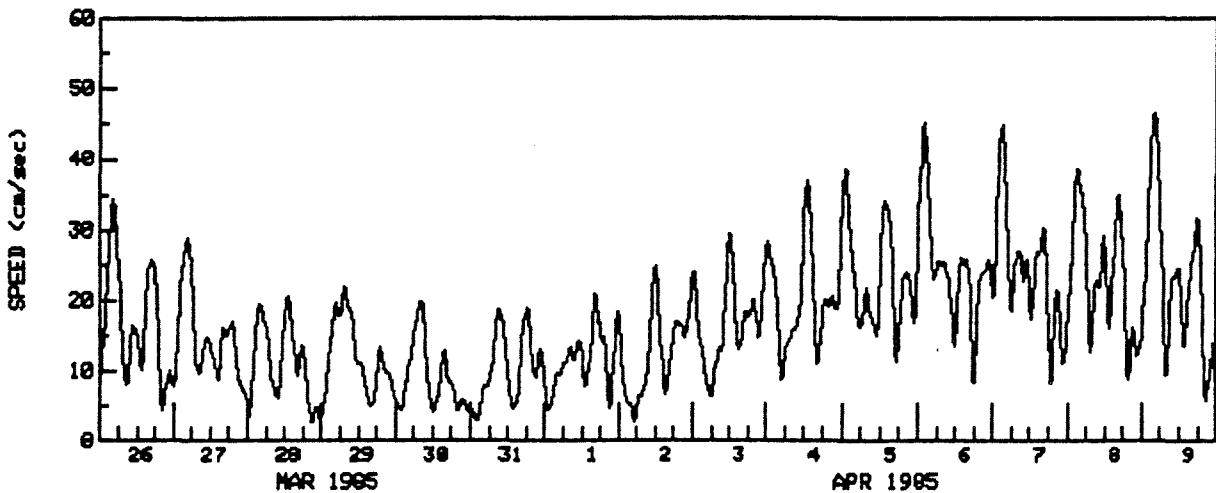
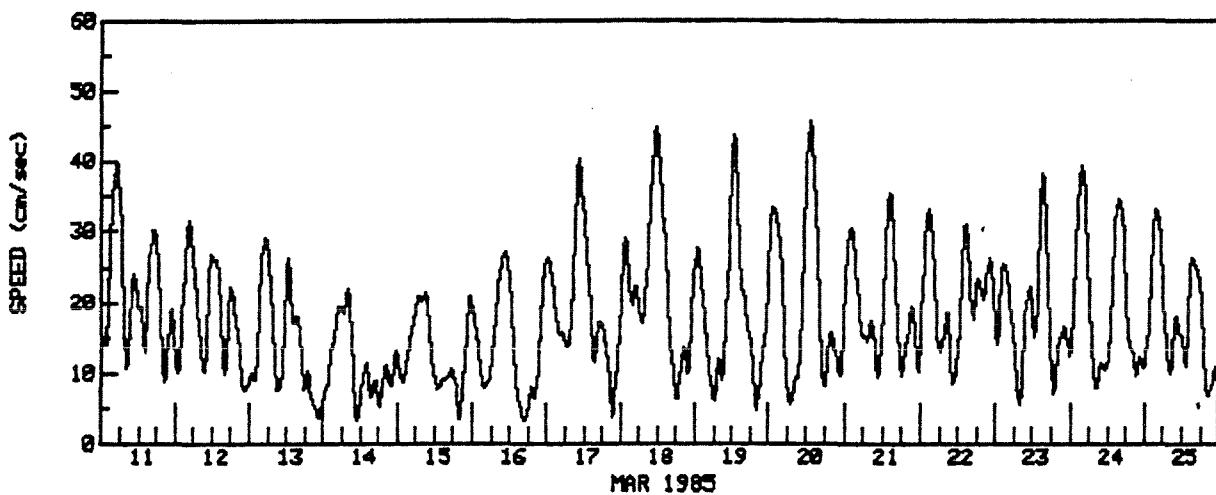
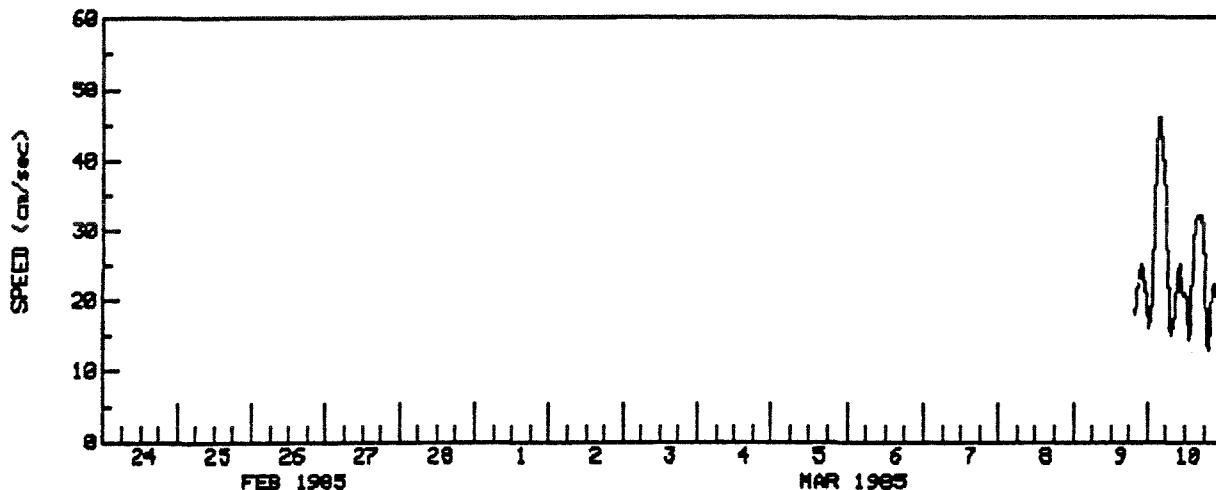
BAND NO.	FREQUENCY (CYC/HR)	SPEED (CM/S**2-HR)
26	0.2603	6.4460
27	0.2700	11.052
28	0.2798	16.419
29	0.2900	4.3980
30	0.3003	1.7269
31	0.3101	4.2920
32	0.3198	19.677
33	0.3301	8.8133
34	0.3403	3.2633
35	0.3501	2.0062
36	0.3599	2.3512
37	0.3696	4.4128
38	0.3799	1.6398
39	0.3901	1.3824
40	0.3999	1.5837
41	0.4097	2.3530
42	0.4199	0.92709
43	0.4302	1.1120
44	0.4399	1.3032
45	0.4497	2.3295
46	0.4600	0.83439
47	0.4702	0.85040
48	0.4800	1.0988
49	0.4897	0.80650
50	0.4971	0.61083

LOG OF RAW SPEED SPECTRAL DENSITY vs FREQUENCY

SITE #5 ROBESON CHANNEL
81 56' 36"N 61 58' 54"WMETER 6137/1
AANDERAA RCMDEPTH(m) 7
DT(min) 20

TIME SERIES OF SPEED

SITE #5 ROBESON CHANNEL DEPTH(m) 7 TYPE DESPIKED
81 56' 36"N 61 58' 54"W AANDERAA RCM4 #6137 DT(min) 20



TIME SERIES OF SPEED

SITE #5 ROBESON CHANNEL DEPTH(m) 7 TYPE DESPIKED
81 56' 36"N 61 58' 54"W AANDERAA RCM4 #6137 DT(min) 20

