Environment Canada Imaging Cover Page

Report N.: *CDS-04-77*

SKP Box Number: 672572447

MEAN MONTHLY SEA-LEVEL PRESSURE MAPS FOR NORTH AND CENTRAL AMERICA

BY M.K. THOMAS

The attached maps depict the mean sea-level pressure patterns over North and Central America expressed in kilopascals for each month of the year.

These maps were prepared in 1966-67 as part of the World Meteorological Organization's Climatic Atlas Project. However, since the project has not moved as quickly as anticipated, this set of maps is being issued on an informal basis as reference material for Weather Offices. In the decade since their preparation there has not been any more up-to-date publication of pressure maps so it is believed that these maps will contain valuable and useful reference information.

In preparing the attached maps, full use was made of all available average, mean or normal sea-level pressure charts for North America including the U.S. marine climatic atlases (1955-56), etc., maps published by AES in 1959 and 1969, maps published by NOAA personnel in the Monthly Weather Review and special publications from the University of Wisconsin. The Canadian portion of the maps is based on observed data over the 1941-1960 period, while for the United States and the rest of the Region the best available data and maps were used.

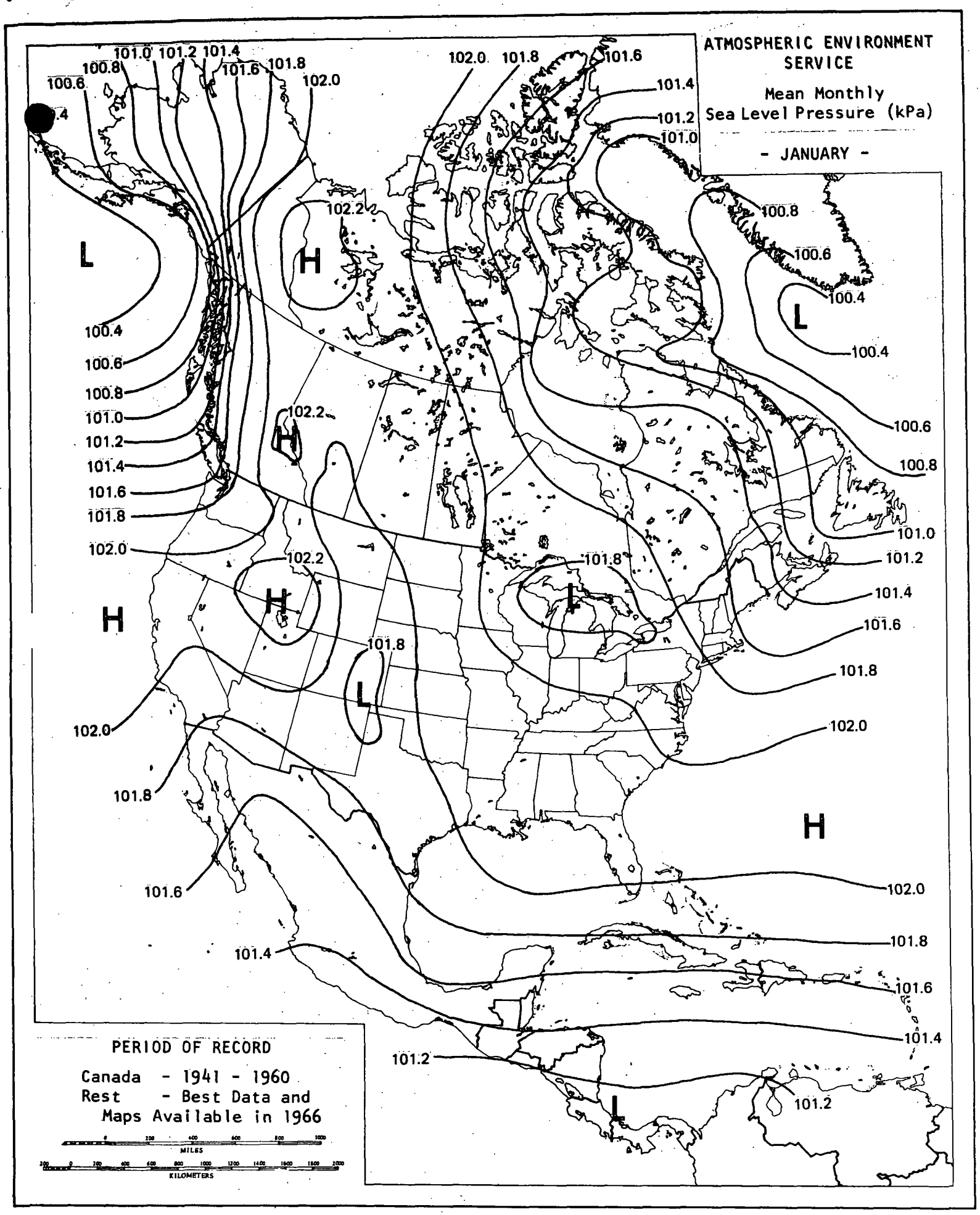
Following preparation of the maps in 1966 and 1967, draft copies were sent for comment to the Officers-in-Charge of the Pacific Weather Central, the Arctic Weather Central and the Central Analysis Office and to the Heads of all national weather services in North and Central America. Many useful comments and suggestions were received and considered in the process of amending and correcting the maps. Thus, although the maps are a decade old and in a sense might be considered more historical than timely, they do constitute the best and most up-to-date mean monthly sea-level pressure maps of North and Central America that are available today.

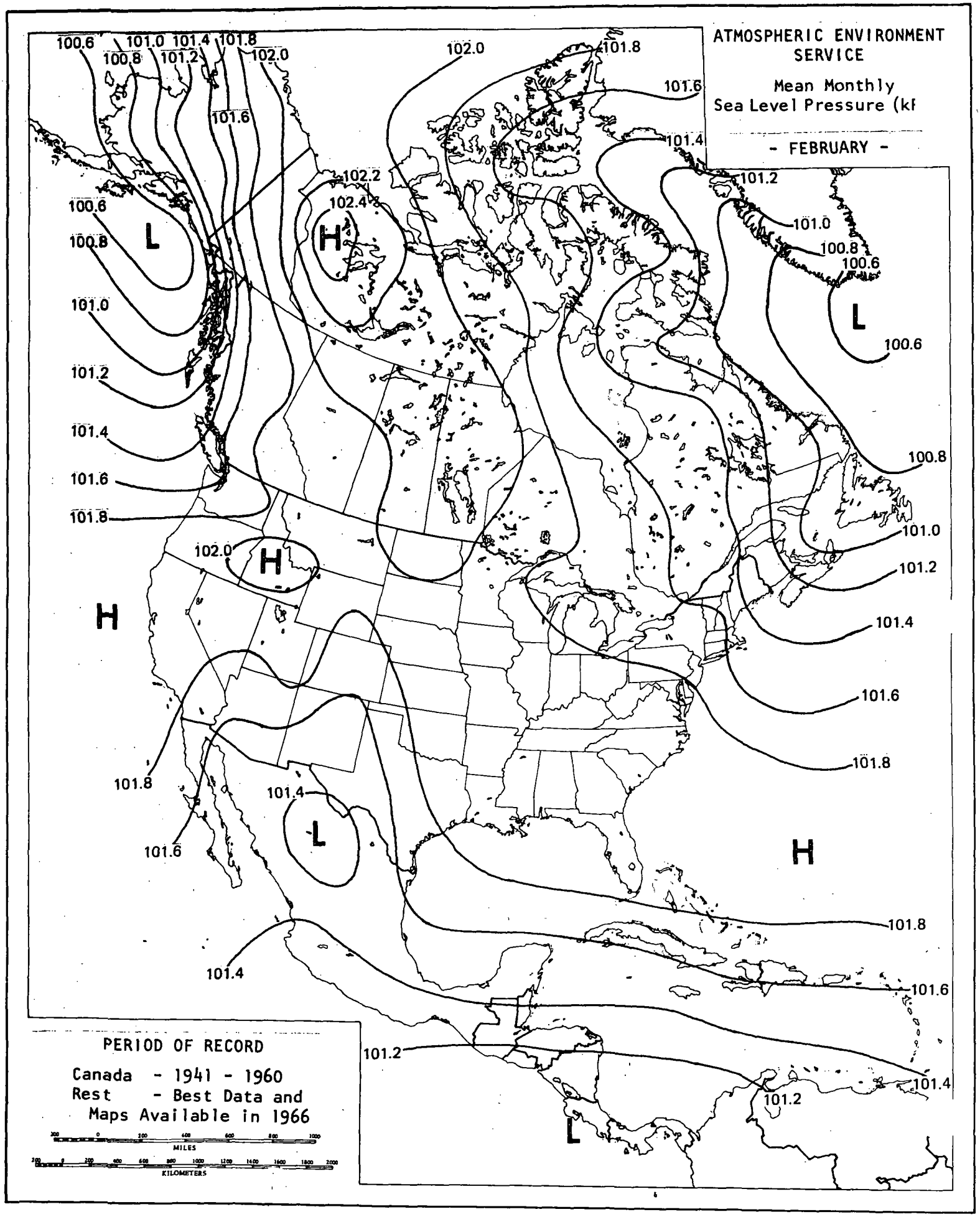
Reduction of the large manuscript maps and the necessary associated drafting was done by W.J. Johnson.

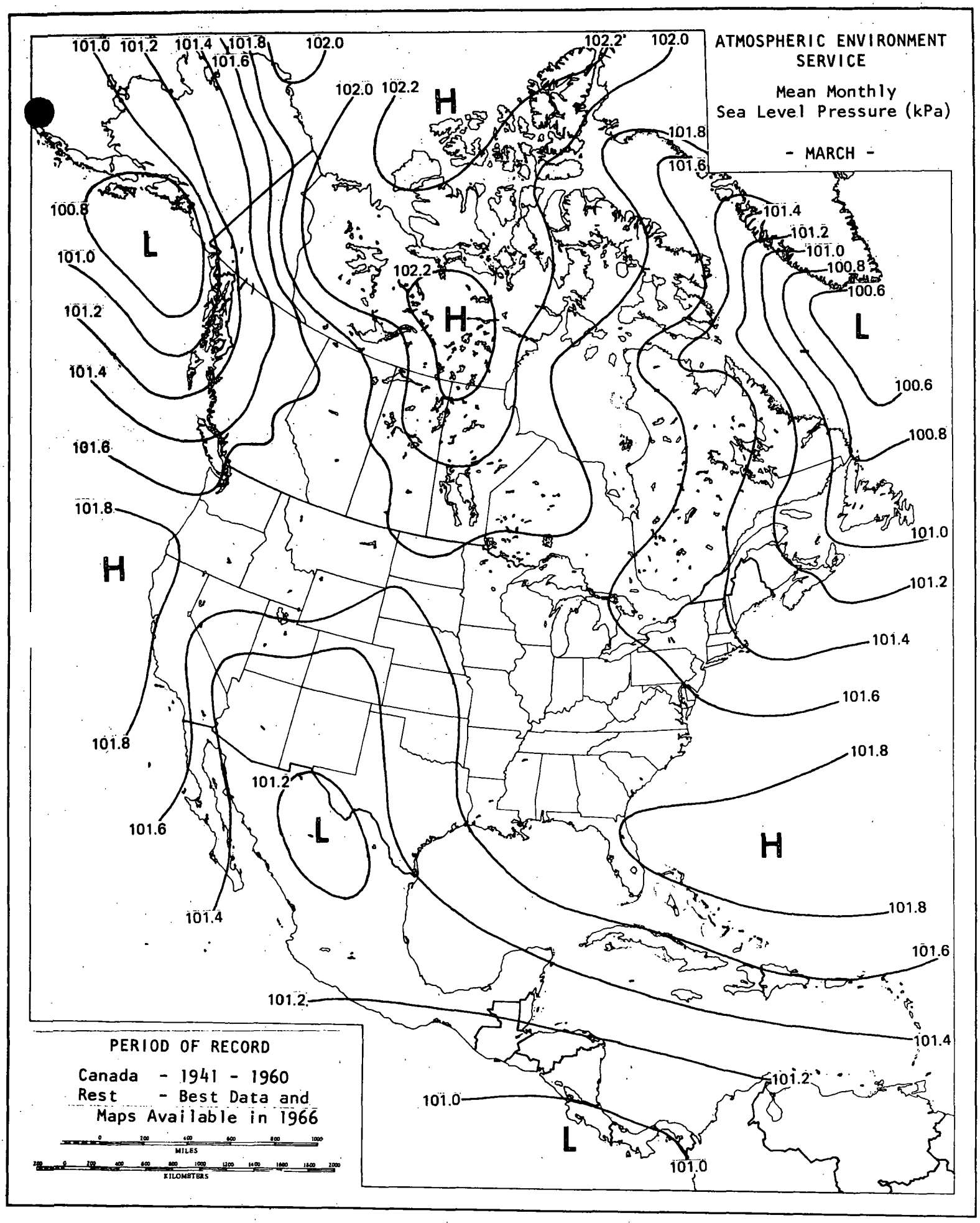
A.E.S. LIBRARY
MAR 28 74
BIBLIOTHEQUE S.E.A.

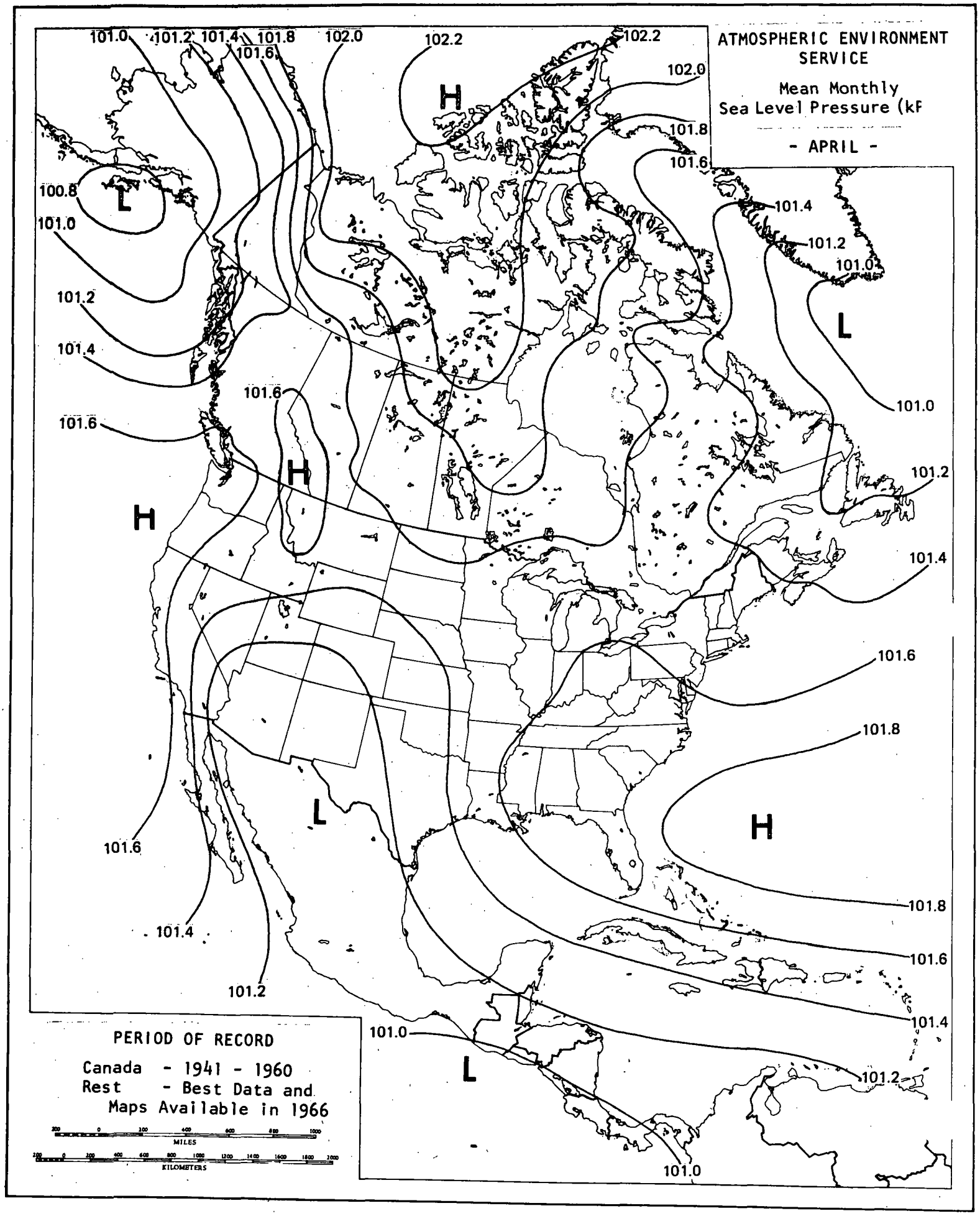
Meteorological Applications Branch,
Central Services Directorate,
Atmospheric Environment Service,
Downsview, Ontario.
M3H 5T4

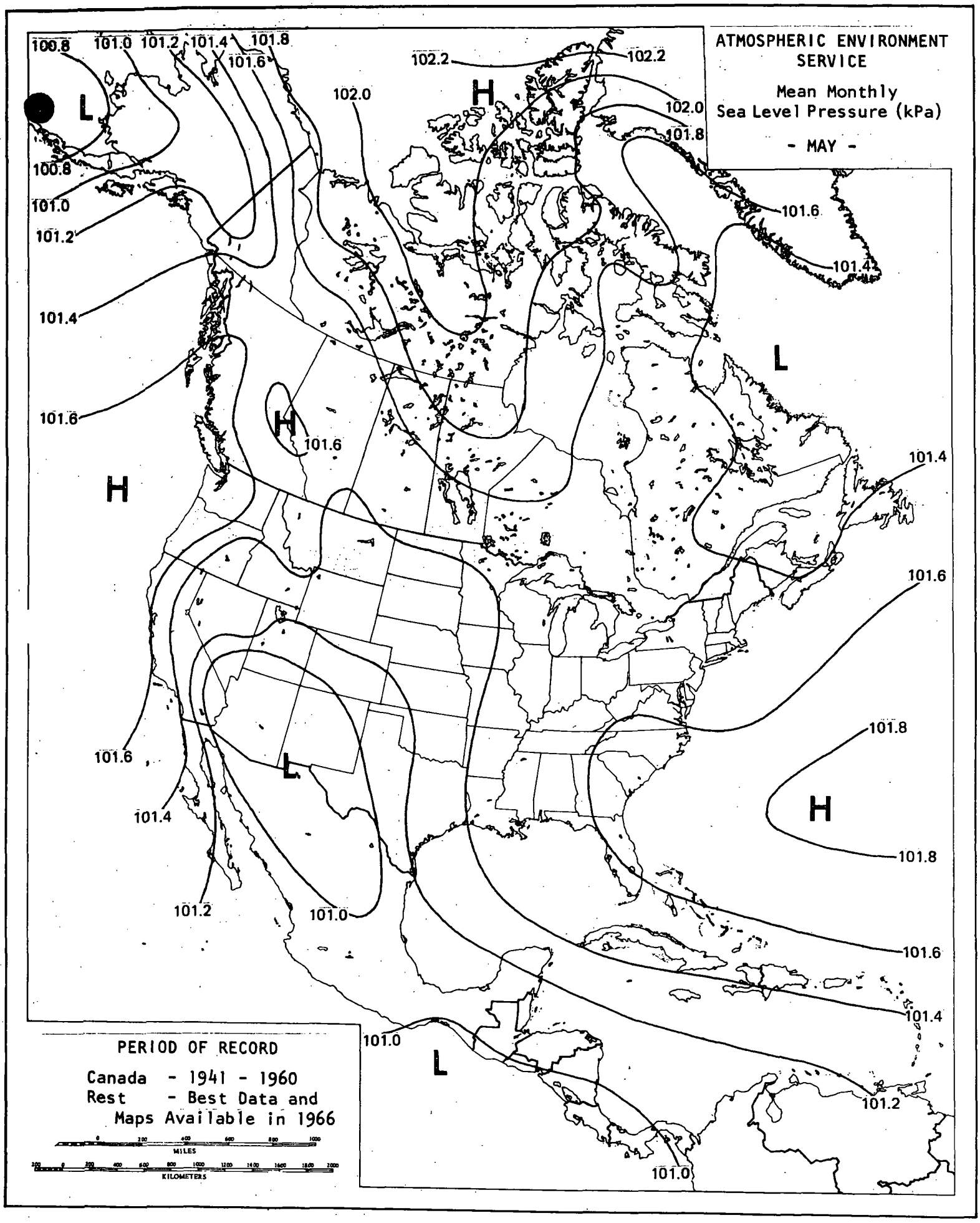
January 24, 1977.

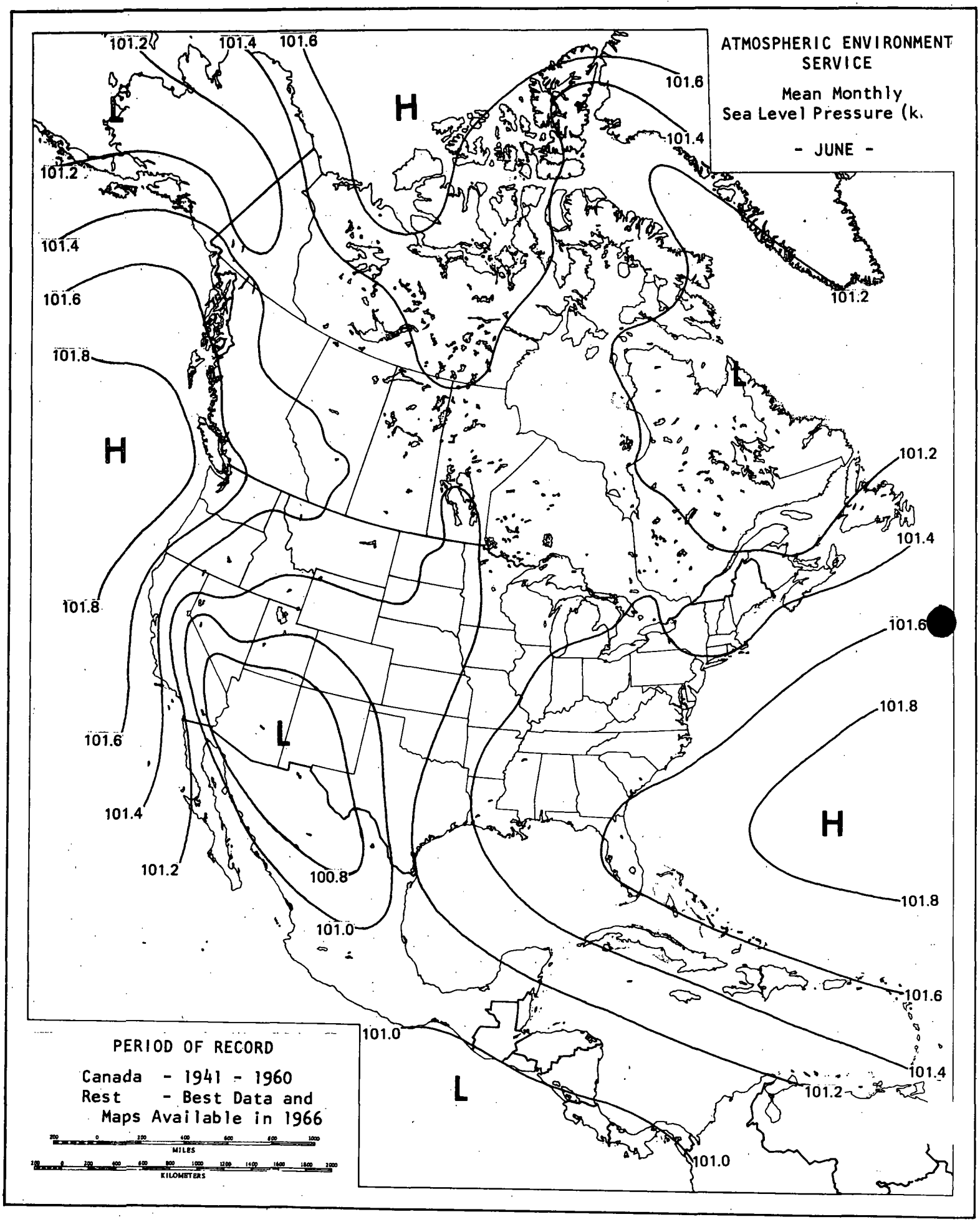

ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly Sea Level Pressure (kPa)
- JANUARY -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and Maps Available in 1966
MILES
KILOMETERS

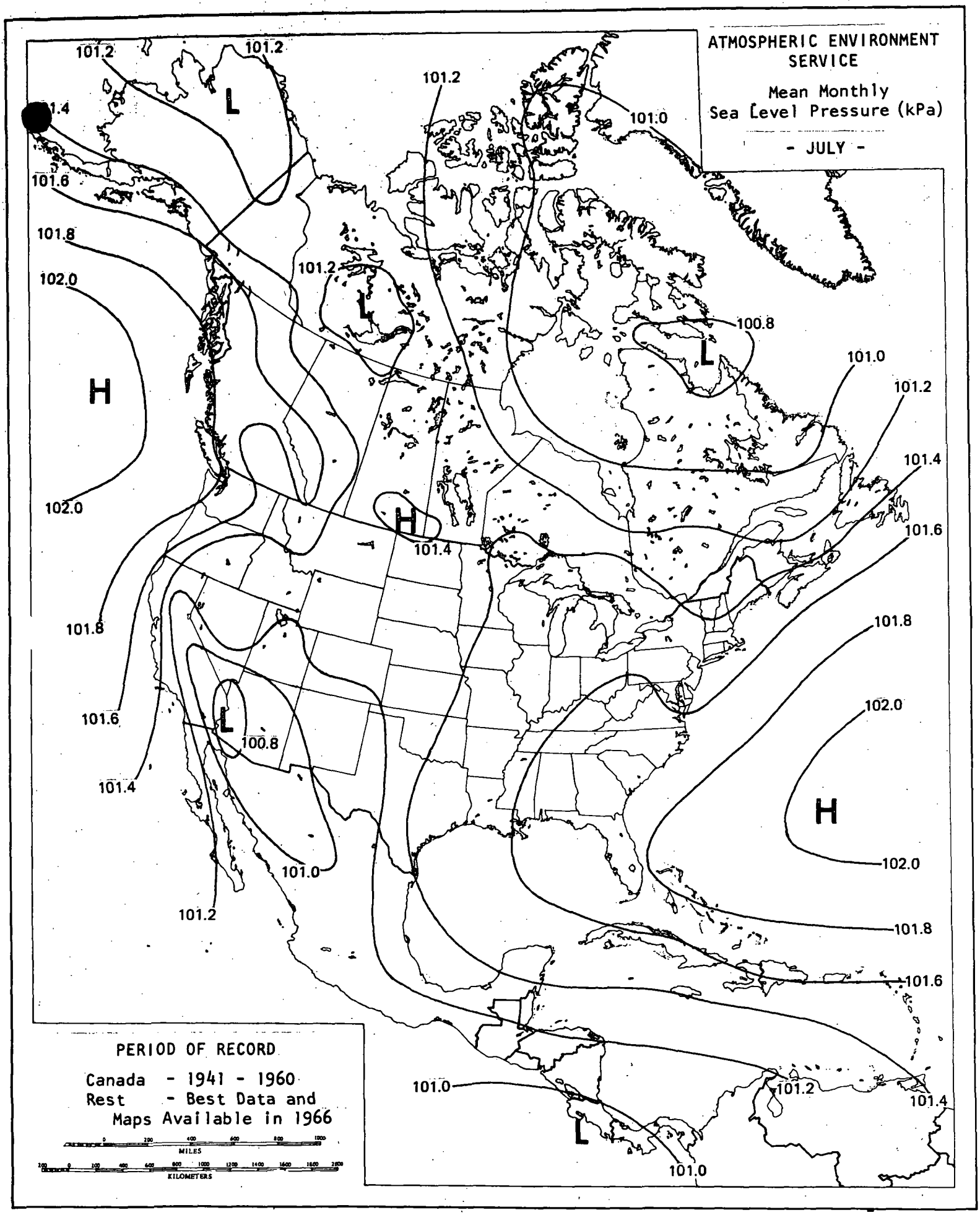

ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly
Sea Level Pressure (kP
- FEBRUARY -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and
Maps Available in 1966
MILES
KILOMETERS
100.6
100.8
101.0
101.2
101.4
101.6
101.8
102.0
102.2
102.4
H
L

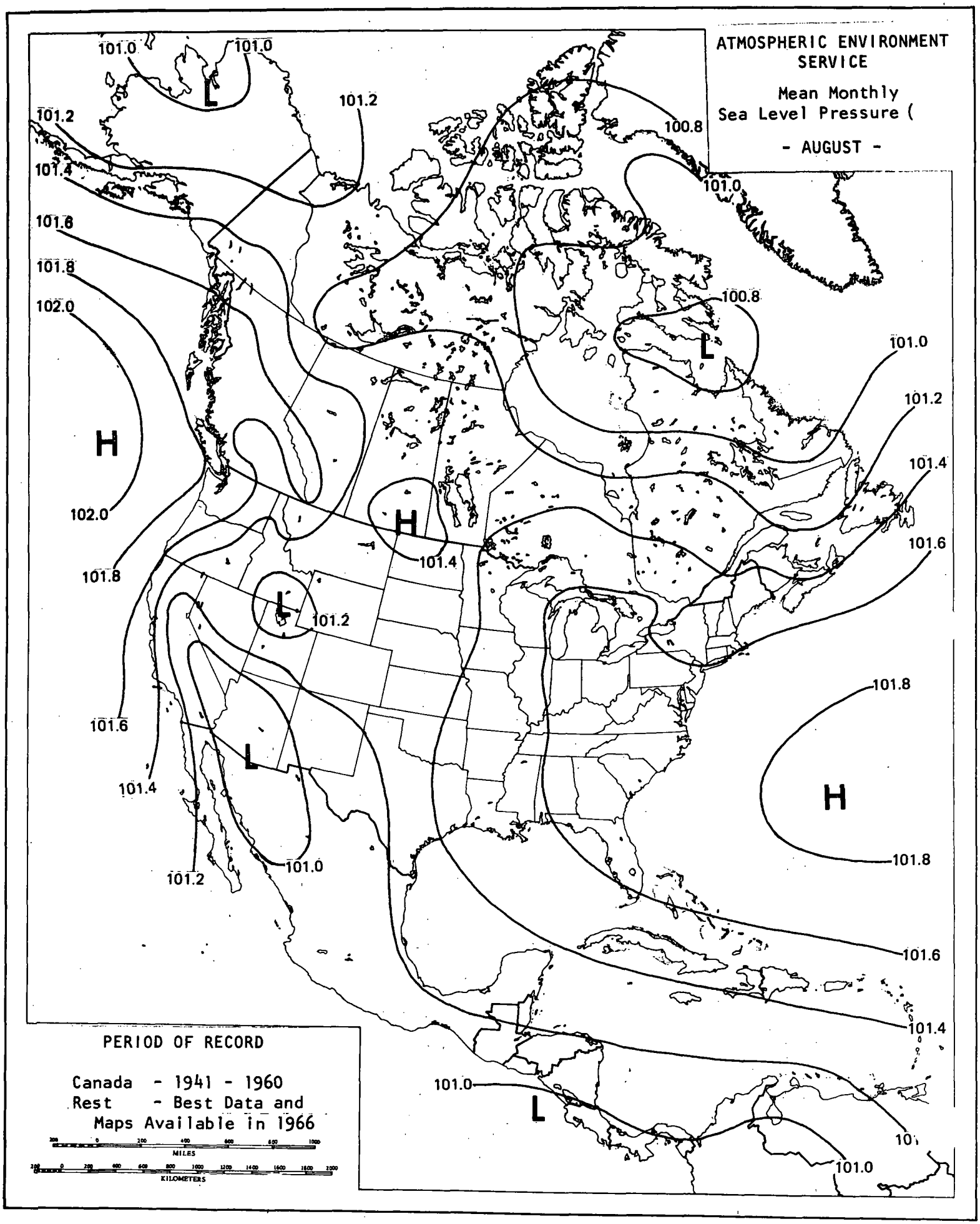

ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly
Sea Level Pressure (kPa)
- MARCH -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and
Maps Available in 1966
MILES
KILOMETERS
H
L
101.0
101.2
101.4
101.6
101.8
102.0
102.2
100.8
100.6

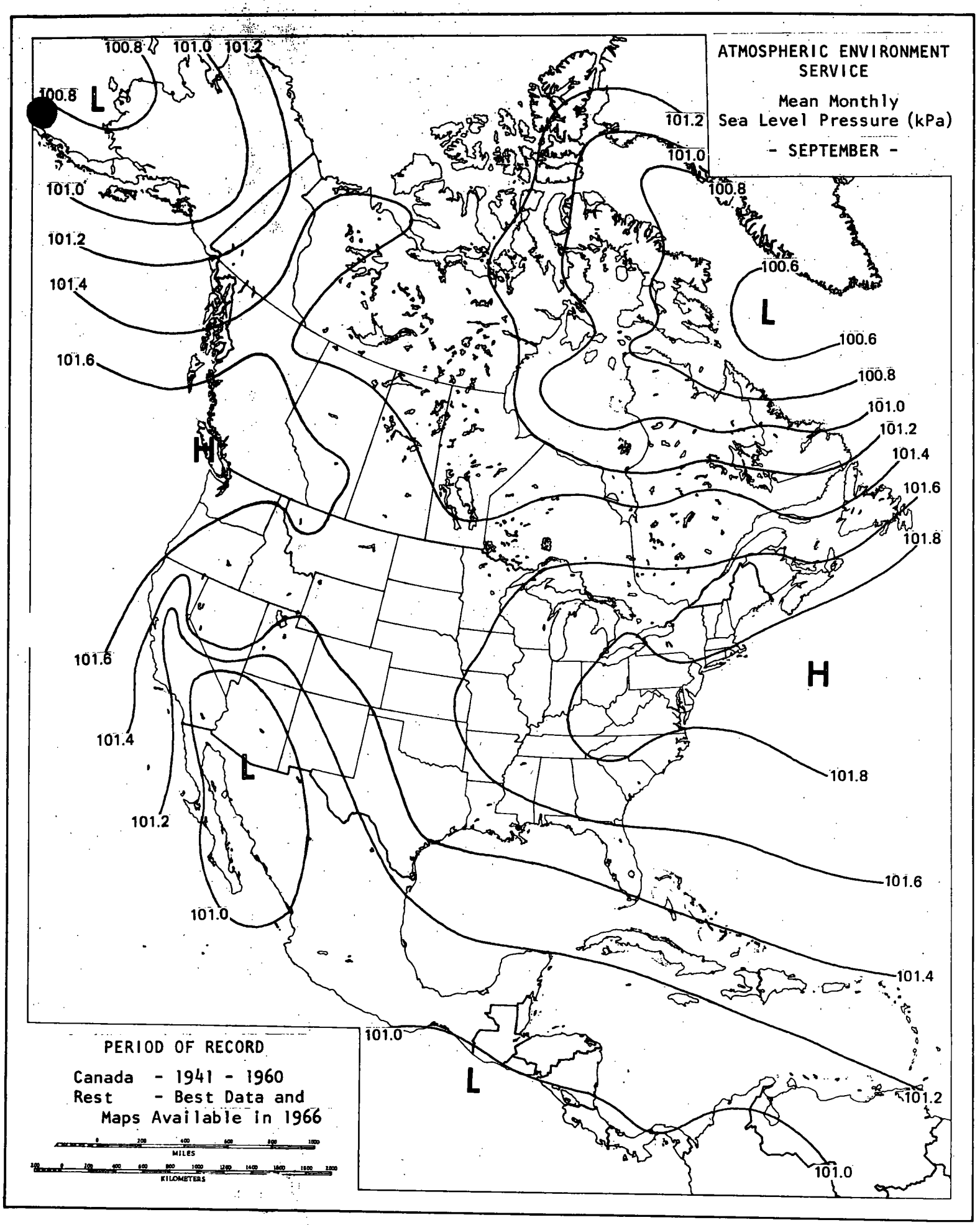

ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly
Sea Level Pressure (kP
- APRIL -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and
Maps Available in 1966
MILES
KILOMETERS
H
L
101.0
101.2
101.4
101.6
101.8
102.0
102.2
100.8

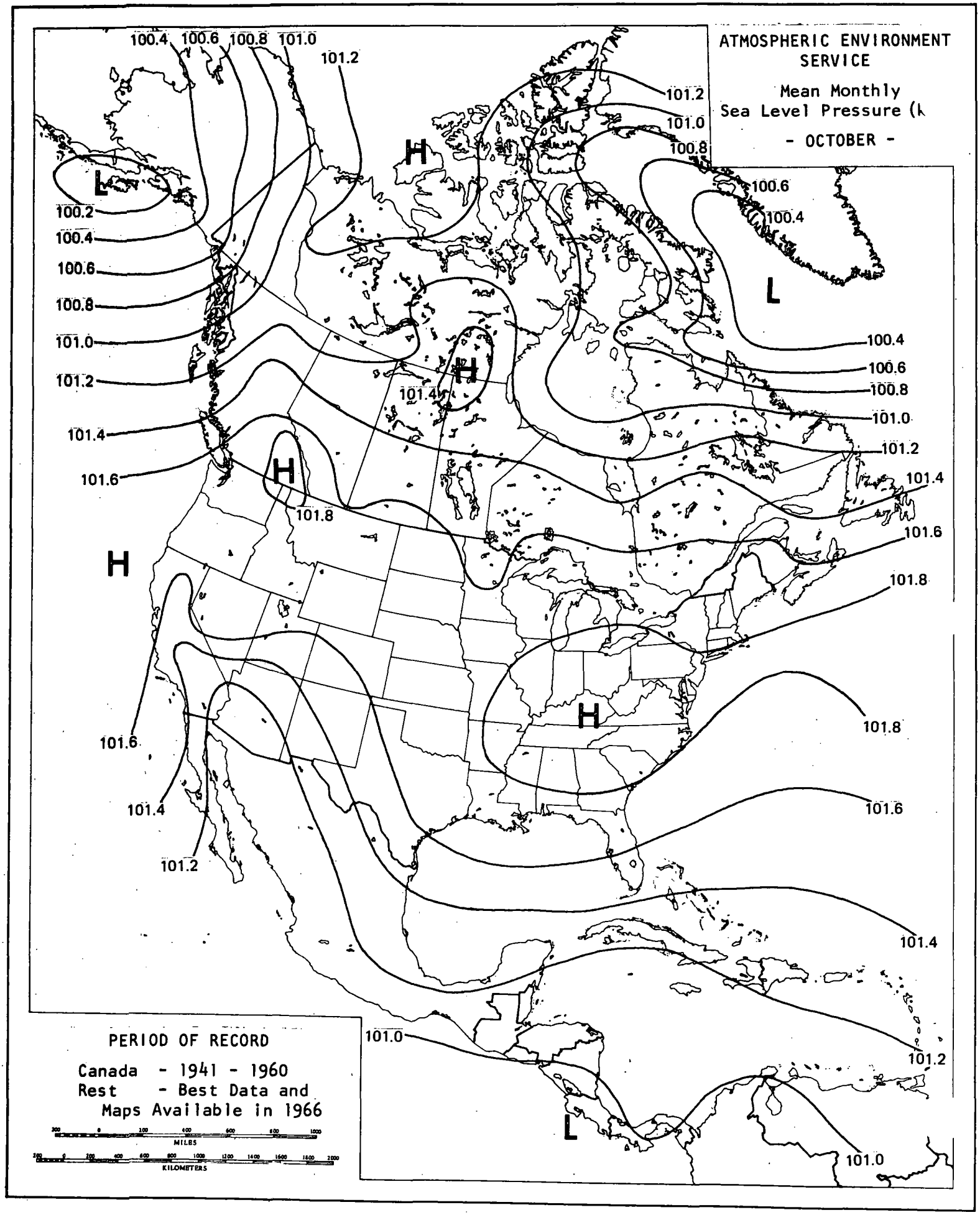

ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly Sea Level Pressure (kPa)
- MAY -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and Maps Available in 1966
MILES
KILOMETERS
H
L
100.8
101.0
101.2
101.4
101.6
101.8
102.0
102.2

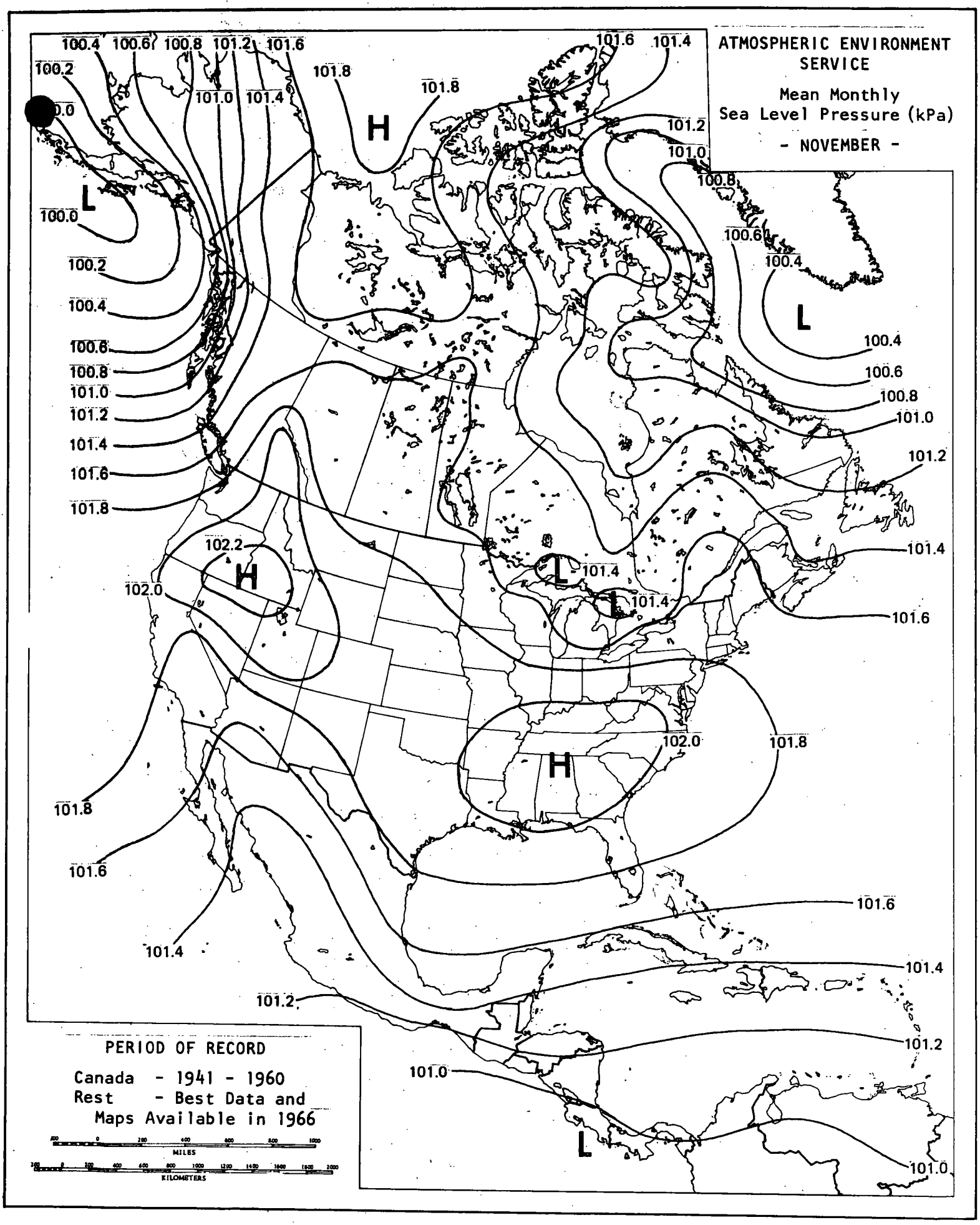

ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly Sea Level Pressure (k
- JUNE -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and Maps Available in 1966
MILES
KILOMETERS
H
L
101.2
101.4
101.6
101.8
100.8
101.0

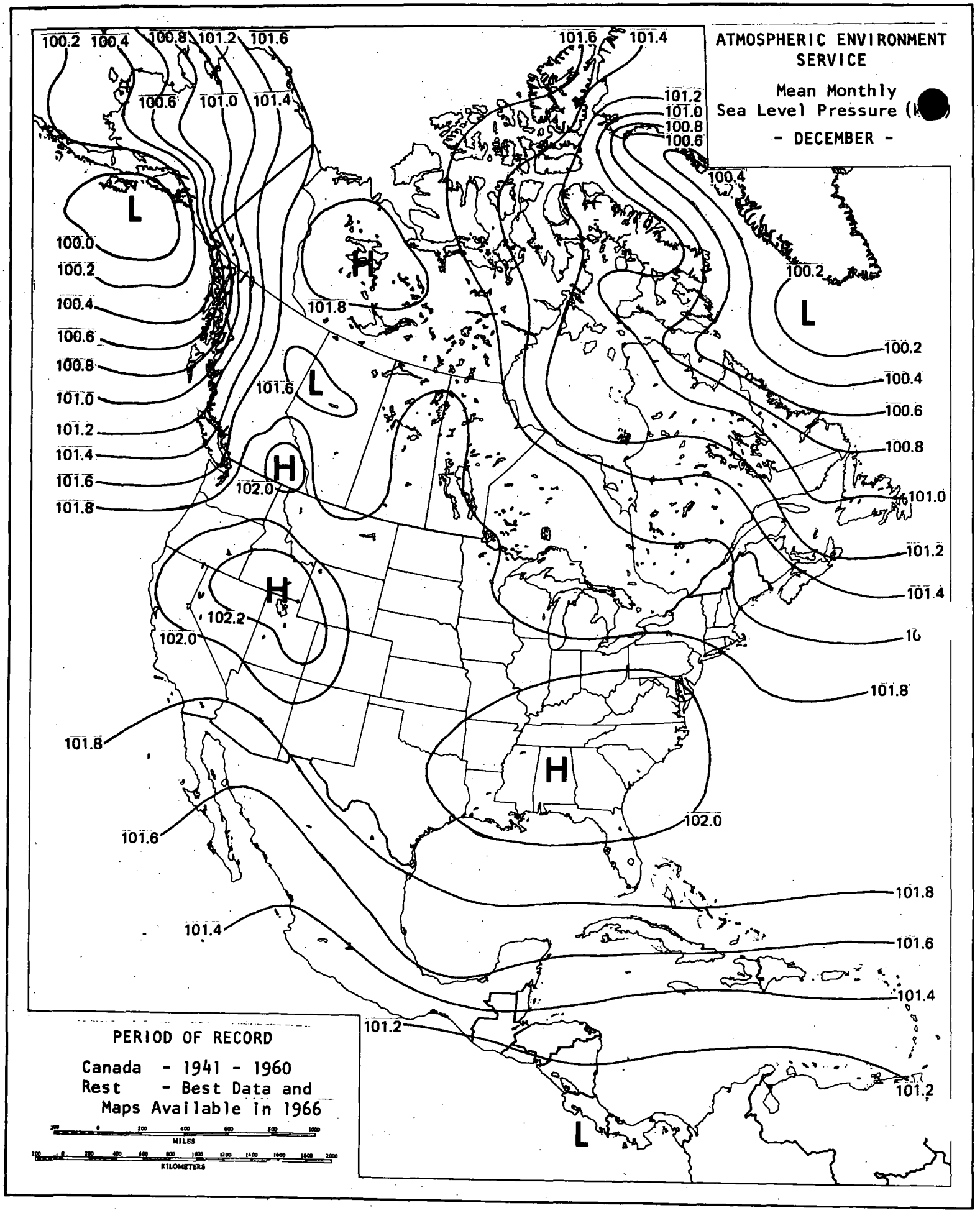

ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly Sea Level Pressure (kPa)
- JULY -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and Maps Available in 1966
MILES
KILOMETERS
H
L
101.0
101.2
101.4
101.6
101.8
102.0
100.8


ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly
Sea Level Pressure (
- AUGUST -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and
Maps Available in 1966
MILES
KILOMETERS
101.0
101.2
101.4
101.6
101.8
102.0
100.8
H
L


ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly
Sea Level Pressure (kPa)
- SEPTEMBER -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and
Maps Available in 1966
MILES
KILOMETERS
100.8
101.0
101.2
101.4
101.6
101.8
100.6
L
H


ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly Sea Level Pressure (k
- OCTOBER -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and Maps Available in 1966
MILES
KILOMETERS
100.4
100.6
100.8
101.0
101.2
101.4
101.6
101.8
100.2
H
L


ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly
Sea Level Pressure (kPa)
- NOVEMBER -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and
Maps Available in 1966
MILES
KILOMETERS
H
L
100.0
100.2
100.4
100.6
100.8
101.0
101.2
101.4
101.6
101.8
102.0
102.2


ATMOSPHERIC ENVIRONMENT SERVICE
Mean Monthly
Sea Level Pressure (K
- DECEMBER -
PERIOD OF RECORD
Canada - 1941 - 1960
Rest - Best Data and
Maps Available in 1966
MILES
KILOMETERS
100.2
100.4
100.6
100.8
101.0
101.2
101.4
101.6
101.8
102.0
102.2
100.0
L
H