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METEOROLOGICAL BRANCH - DEPARTMENT OF TRANSPORT - CANADA

THE DIURNAL PRESSURE GRAPH

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This note is an addendum to the previous paper Forecasting Take-Off Pressures, CIR-3777, TEC-444, 19 Dec. 62.

An adjustment to the diurnal graph of this paper gives increased accuracy to the summer months, when the Diurnal Pressure Graph is most important and useful.

Not pointed out in the previous paper, monthly diurnal pressure variation falls illogically into three distinct seasons. Construct the Diurnal Pressure Graph from the mean May to September values, instead of the annual values as previously done.

Also, it was found by trial and error, that stretching the horizontal scale of time to twice its scale (figure 3, previous article,) provided a more suitable and workable graph.

The following table should replace "Table 1" of the previous article.

Times G.M.T. / Month	00	03	06	09	12	15	18	21
February	+6	+3	0	-1	+5	+3	-11	-5
March	+6	+4	0	-1	+6	0	-10	-5
April	+6	+5	-3	-1	+8	0	- 9	-6
May	+1	+7	0	+1	+8	0	-10	-7
June	+2	+7	-1	+1	+6	0	- 8	-7
July	+2	+6	0	+1	+7	0	- 9	-7
August	+1	+5	-1	+1	+8	0	- 8	-6
September	+3	+6	-1	0	+8	0	- 9	-7
October	+6	+2	0	0	+5	0	-11	-2
November	+6	0	-1	+1	+5	+3	-13	-1
December	+6	-1	-3	+1	+4	+5	-14	+2
January	+7	0	-4	+1	+3	+5	-13	+1
mean Feb-Apr.	+6.0	+4.0	-1.0	-1.0	+6.3	+1.0	-10.0	-5.3
mean May-Sep.	+1.8	+6.2	-0.6	+0.8	+7.4	0	-8.8	-6.8
mean Oct-Jan.	+6.2	+0.2	-2.0	+0.7	+4.3	+3.3	-12.7	0

Figure 1. Approximate mean pressure tendencies in tenths of mb./3 hours for Montreal, Quebec. It shows three seasons of diurnal pressure variation for Montreal.

APPROVAL,

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