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# Monthly and Seasonal Mean Analyses

## December, January, February 1985/86



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# **Monthly and Seasonal Mean Analyses**

**December, January, February  
1985/86**

**Mean fields obtained from the  
archive of operational analyses**

Met O 20 (Dynamical Climatology Branch)  
Meteorological Office  
London Road  
Bracknell  
Berkshire RG12 2SZ

January 1988

Note: Permission to quote from this document should be obtained from the Assistant Director of the above Meteorological Branch.





## Introduction

The archive of operational analyses contains a continuous record of global analyses every 12 hours (00 and 12 GMT) from May 1983 onwards. They are copies of the update analyses produced in the operational numerical weather prediction system using the 15-level model (Dickinson and Temperton 1984). This publication presents a selection of charts from the archive.

The publication covers a 3-month period and is divided into four sections. Sections 1, 2 and 3 contain charts of the monthly mean fields and section 4 contains charts of the seasonal mean fields for the 3-month period. Each section includes a mean-sea-level pressure chart and composite charts showing fields of height, wind vectors and isotachs for the 850, 500, 250 and 100 mb pressure levels. These charts, on polar stereographic projections, cover the extra-tropical regions of both hemispheres. For the tropical regions, wind vectors and isotachs are presented for the 850 and 250 mb pressure levels. These fields are shown in a series of charts, on a latitude-longitude projection encircling the globe in three sections, covering the longitudes 0°–120°E, 120°E–120°W and 120°W–0°. On all charts contours are depicted as solid lines, wind vectors as arrows and isotachs as dashed lines.

From the start of the archive the global fields have been stored as spectral coefficients using a triangular truncation of T40 (Swinbank 1984), which is approximately equivalent to a latitude-longitude grid with a resolution of 4.5° by 4.5°. Since the model analyses are written up on a 1.5° by 1.875° grid the conversion to spectral coefficients results in some smoothing of the data. The fields are stored in Met O 20 Post-Processing format which consists of a header record containing field and grid information followed by a data record containing the field values. Details of this format may be found in the PP-package manual in Met O 20. Fields available on the archive are as follows:

Field		Pressure level (mb)						
Westerly wind component	(m/s)	}	1000,	850,	700,	500,	400,	300,
Southerly wind component	(m/s)							
Height	(dam)							
Temperature	(K)							
Relative humidity	(%)		1000,	850,	700,	500,	400,	300
Mean-sea-level pressure	(mb)							

The appropriate tape numbers, file numbers and dataset names can be found by reading the library members on 'M20.NARCHIND' and for recently archived data by reading the dataset 'M20.NARCHLST'. Subroutines from the PP-package are used for accessing the data. Examples are shown in Swinbank (1984).

## References

- |                                |      |   |
|--------------------------------|------|---|
| Dickinson, A. and Temperton C. | 1984 | The Operational Numerical Weather Prediction Model. Met O 11 Technical Note No. 183. Meteorological Office, Bracknell.                |
| Swinbank, R.                   | 1984 | A system to archive operational analyses for research purposes. Met O 20 Technical Note No. 11/218. Meteorological Office, Bracknell. |







**DECEMBER**  
**1985**

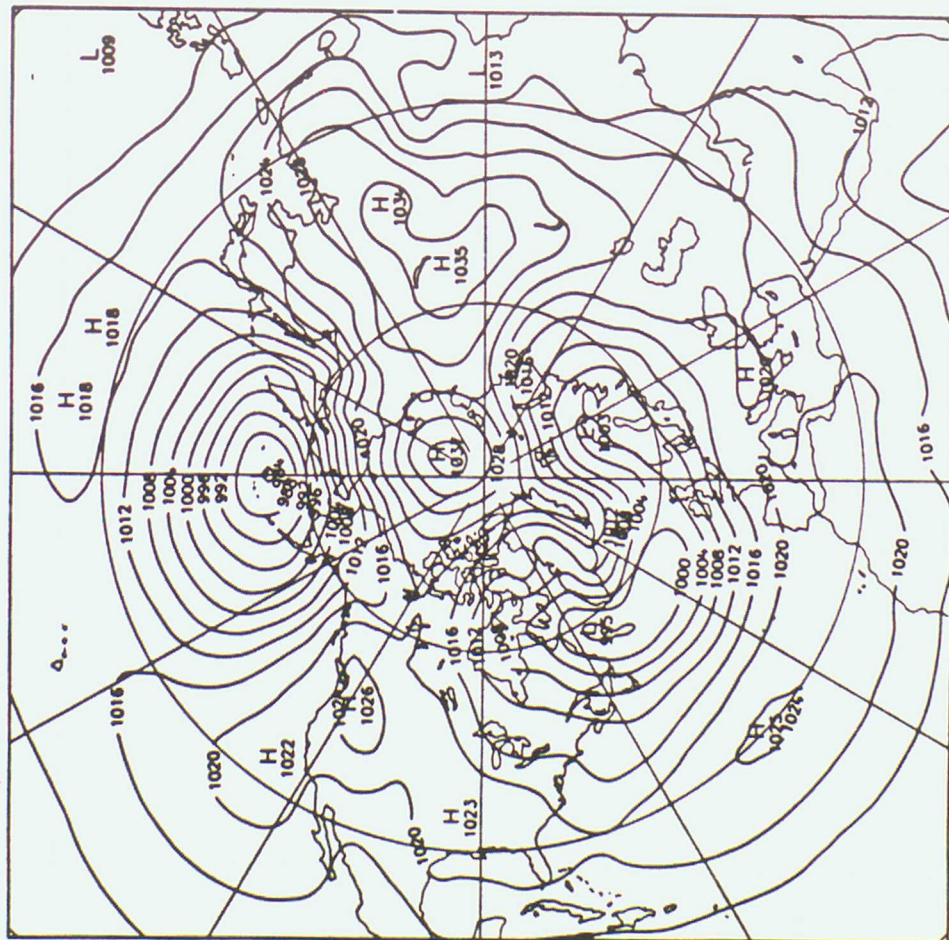






OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
PMSL

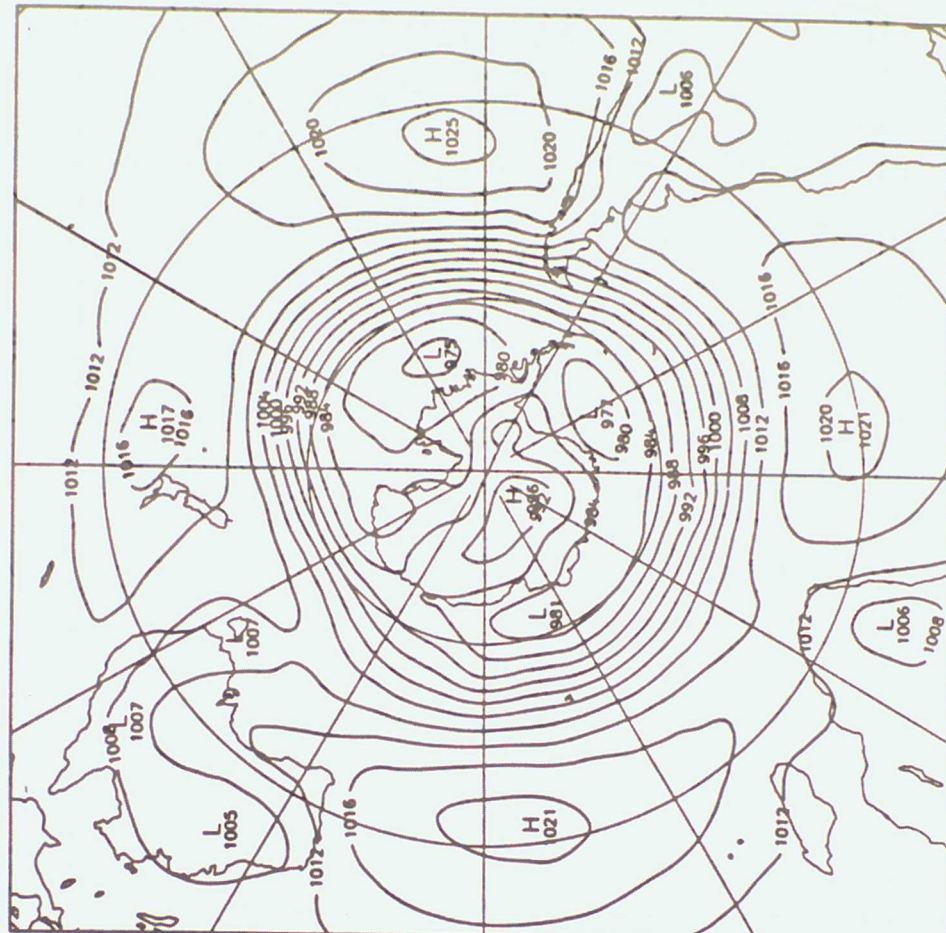
AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
LEVEL: SEA LEVEL



CONTOUR INTERVAL: 4 MB UNITS: MB

OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
PMSL

AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
LEVEL: SEA LEVEL

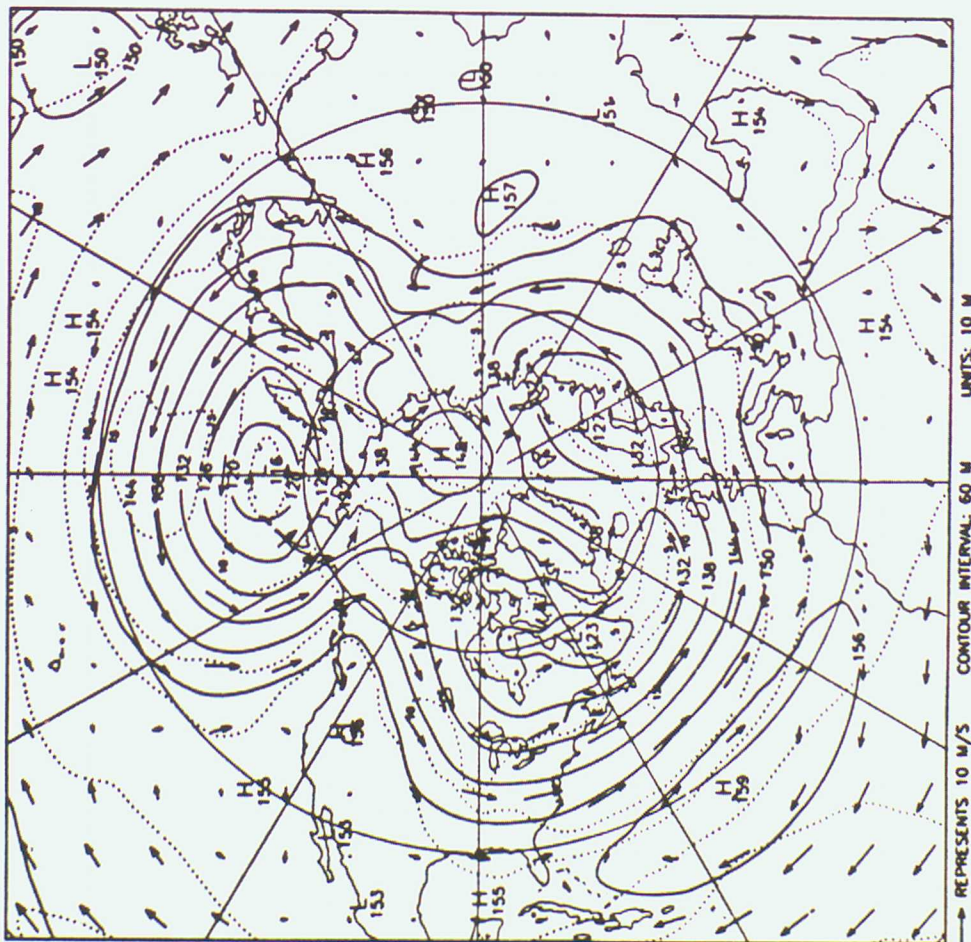


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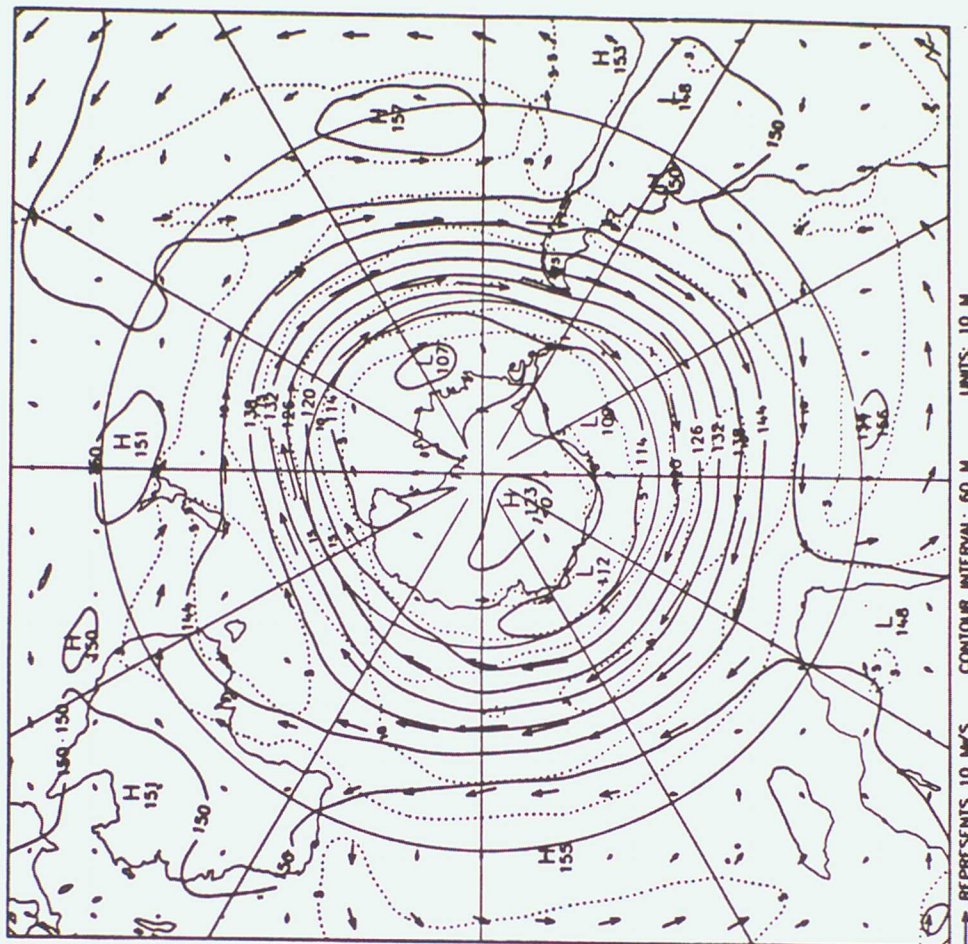




OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
 LEVEL: 850 MB



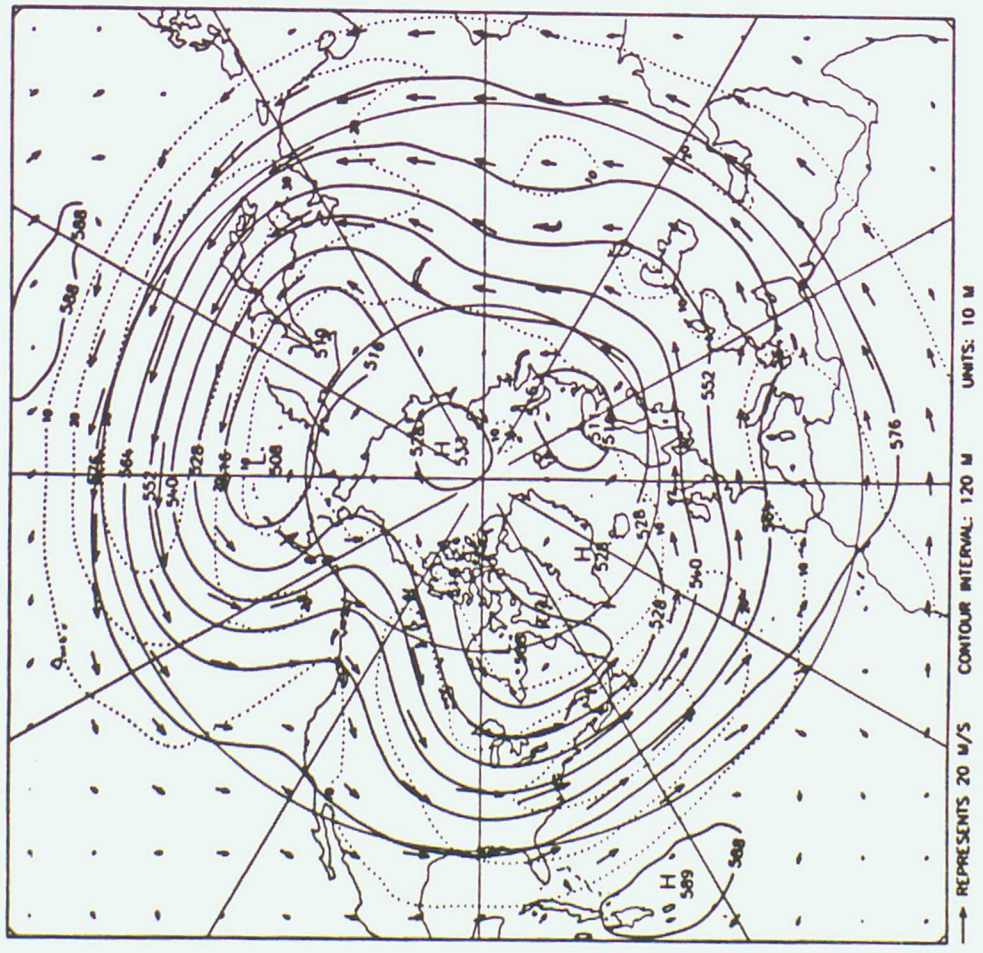
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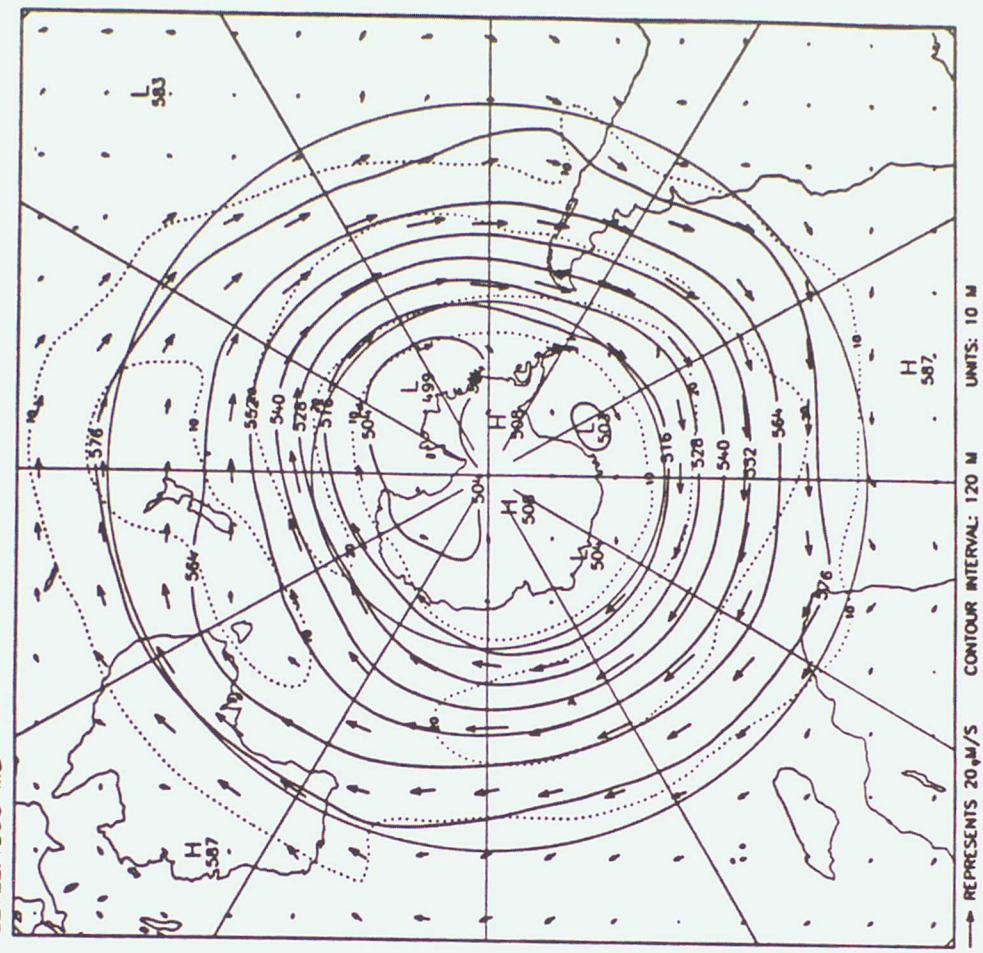




OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
 LEVEL: 500 MB



OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
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 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
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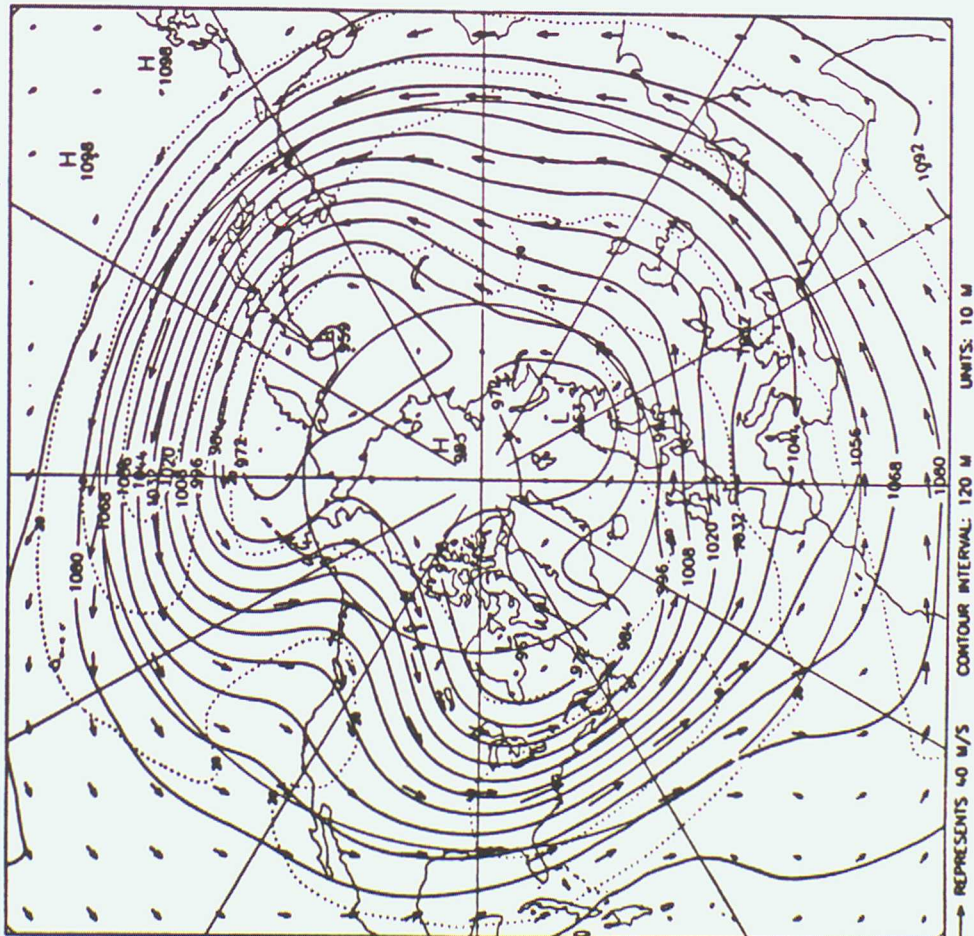




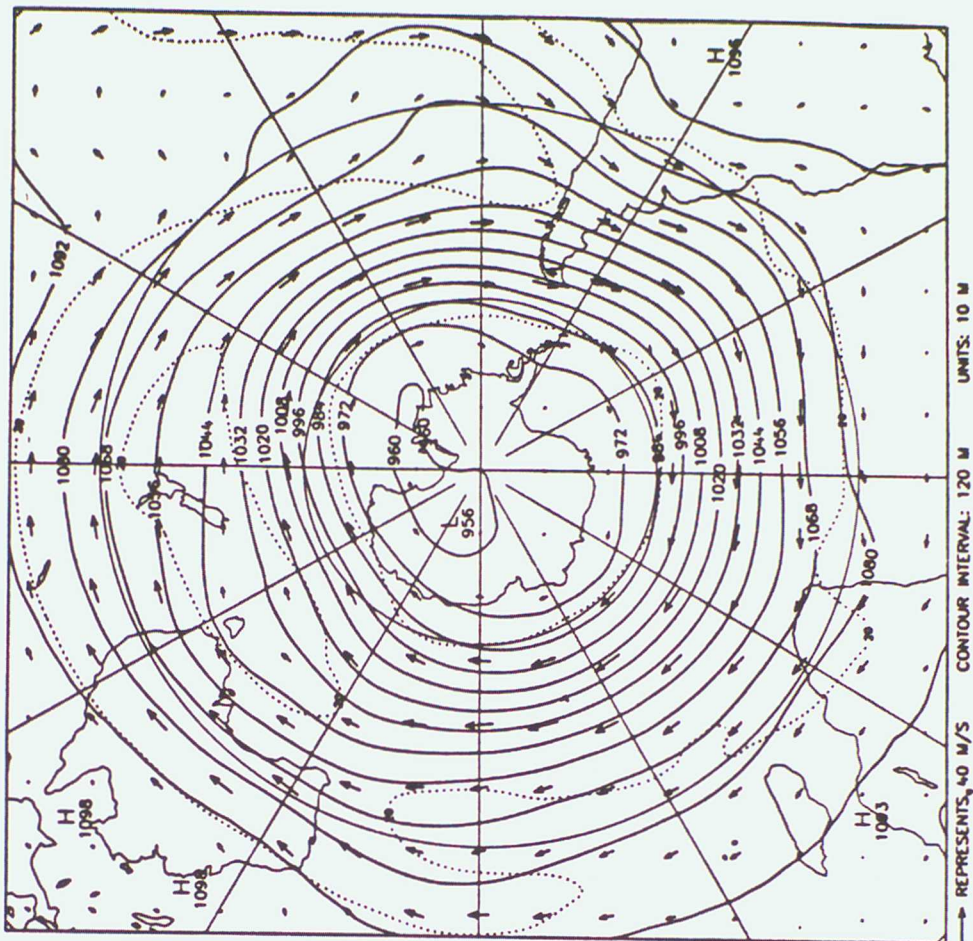




OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
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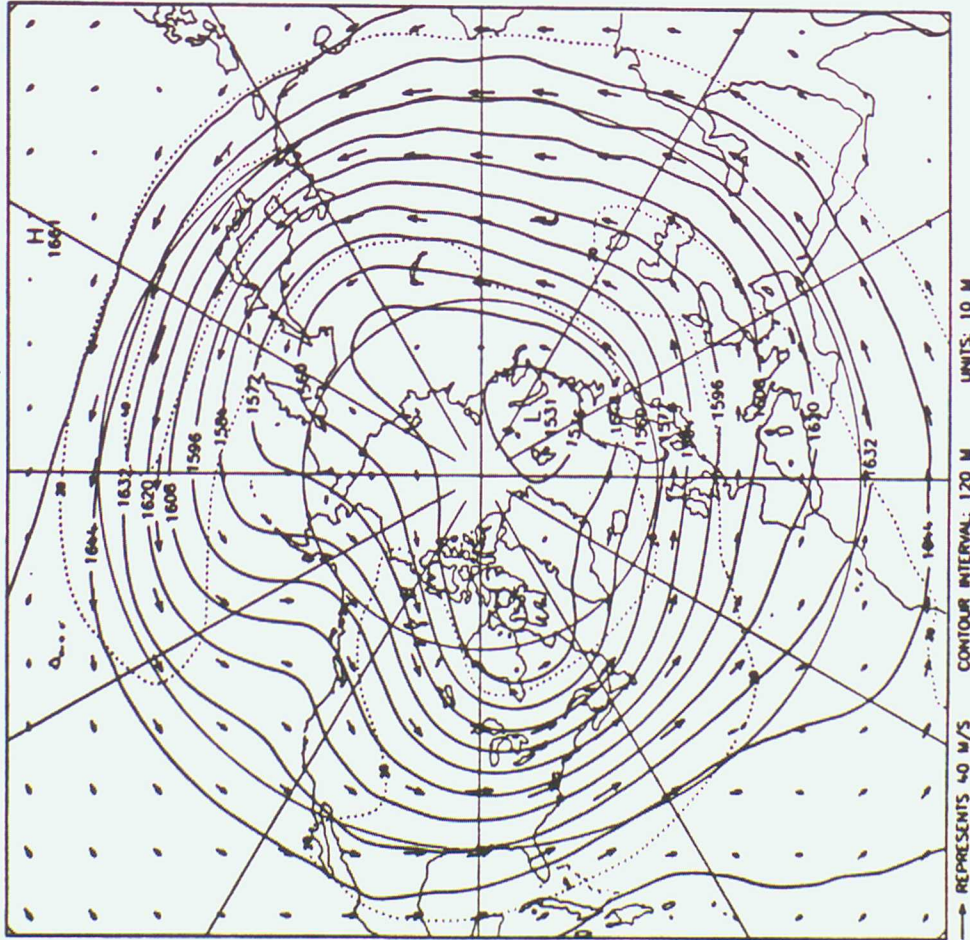
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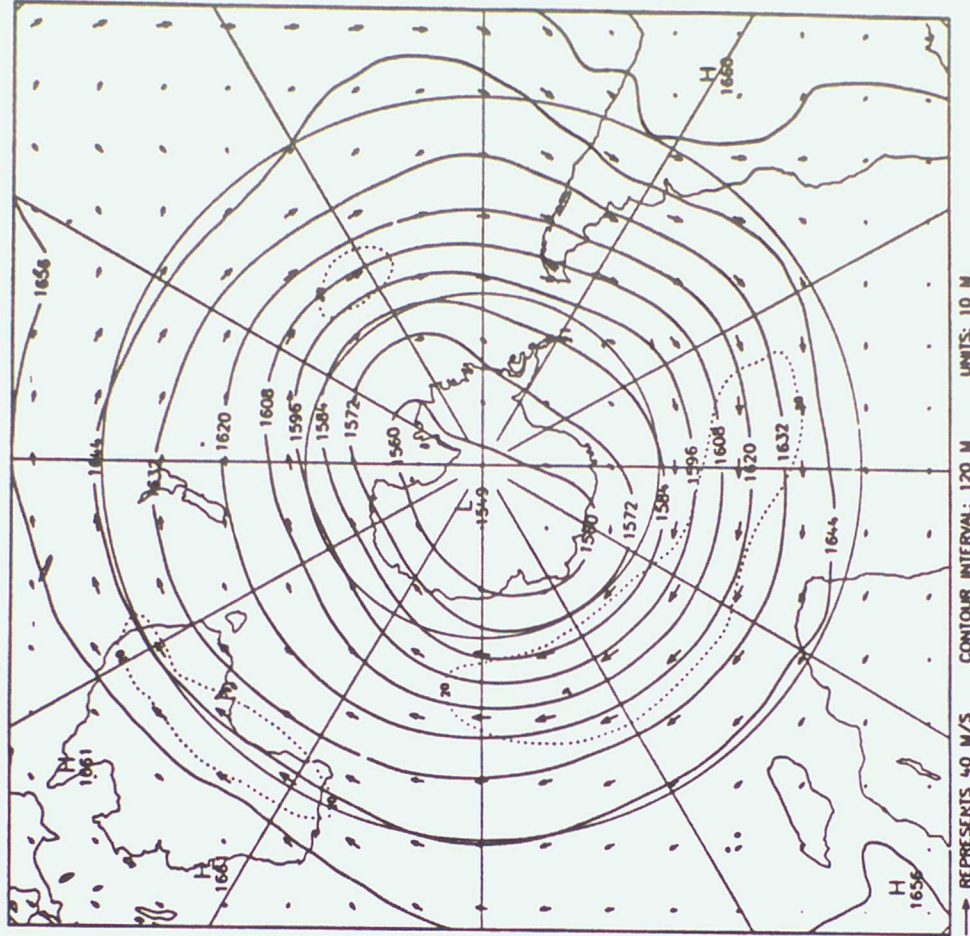




OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
 LEVEL: 100 MB



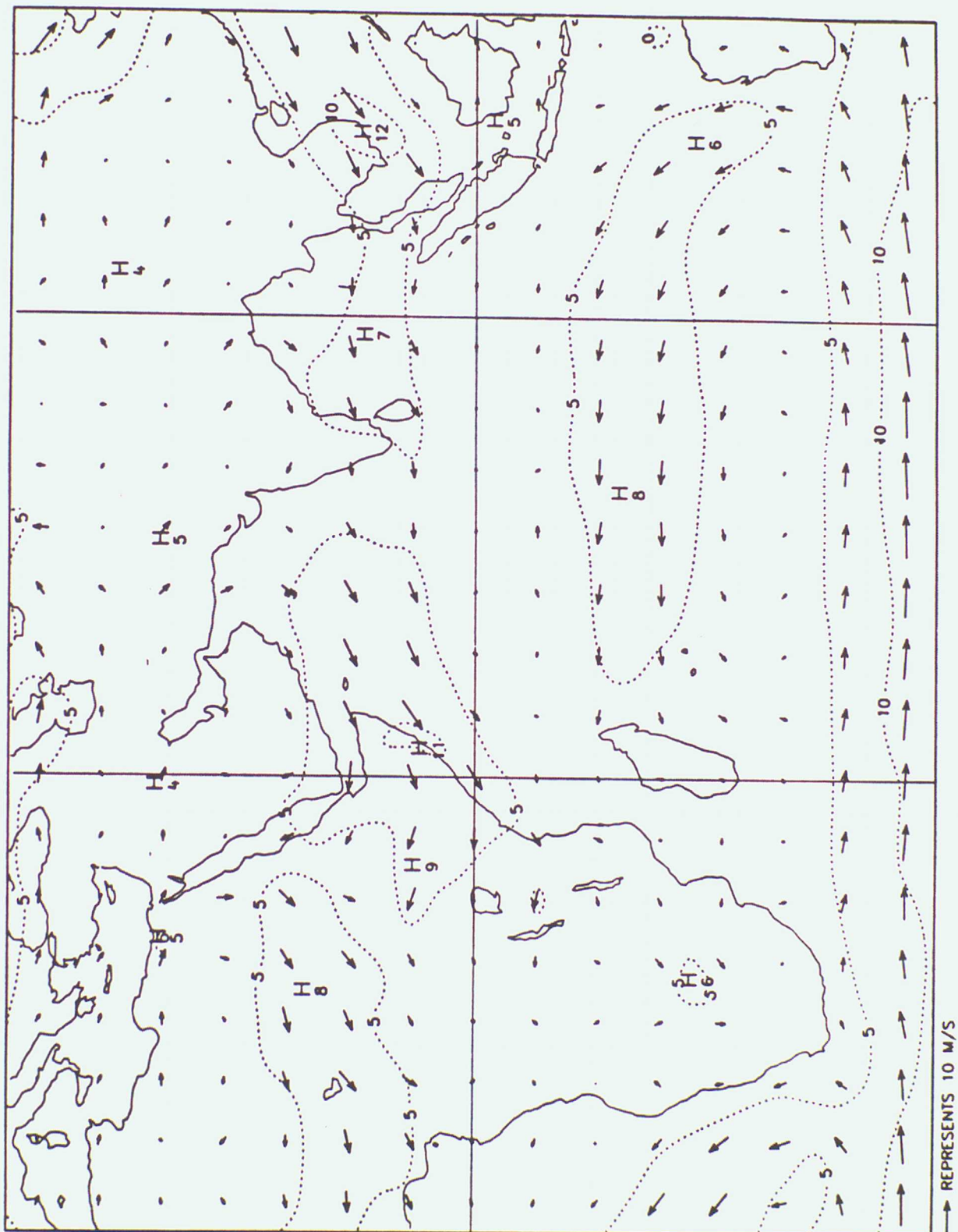
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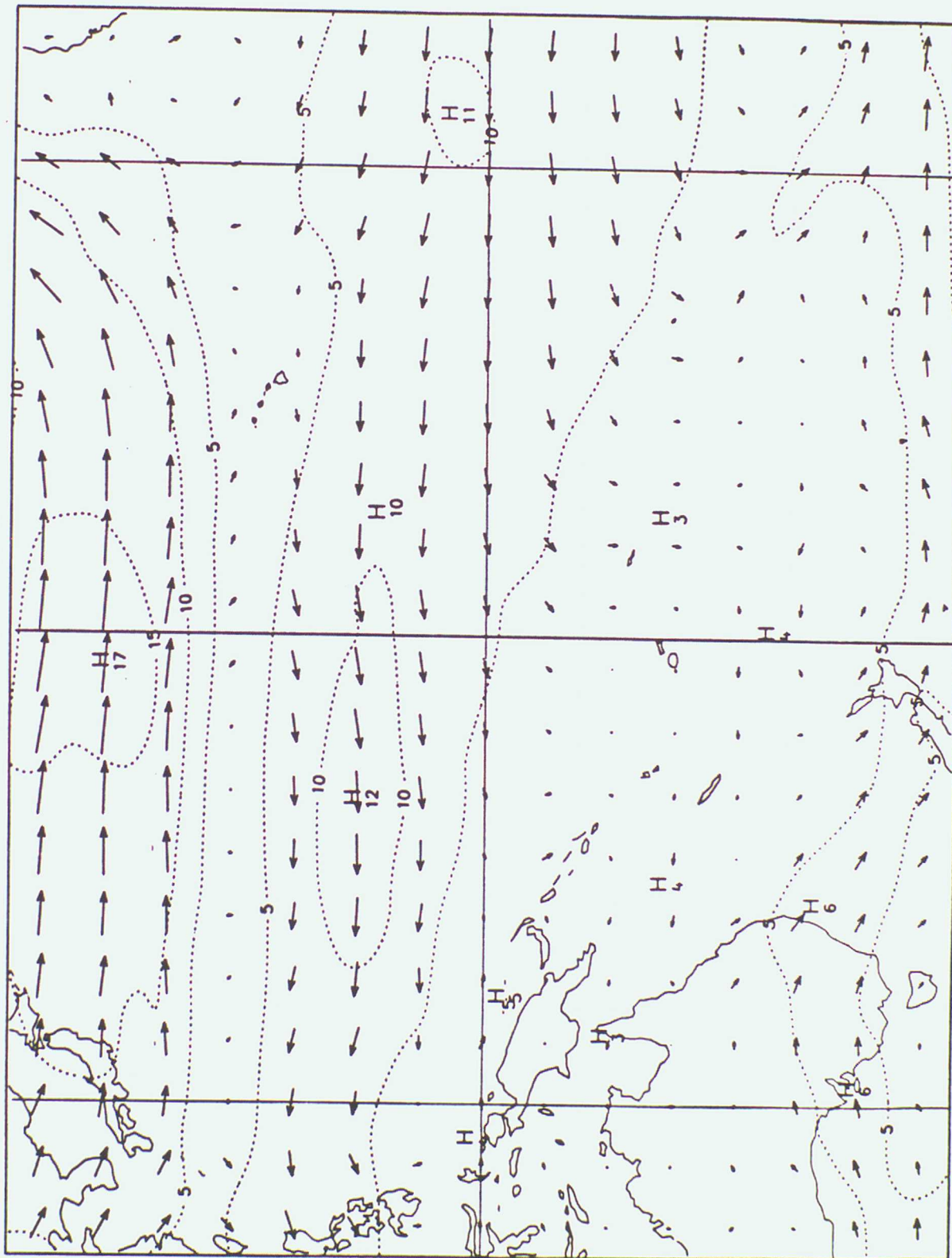
850 MBS.  
BETWEEN LONGS. 0 E - 120 E







OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
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 BETWEEN LONGS. 120 E - 120 W

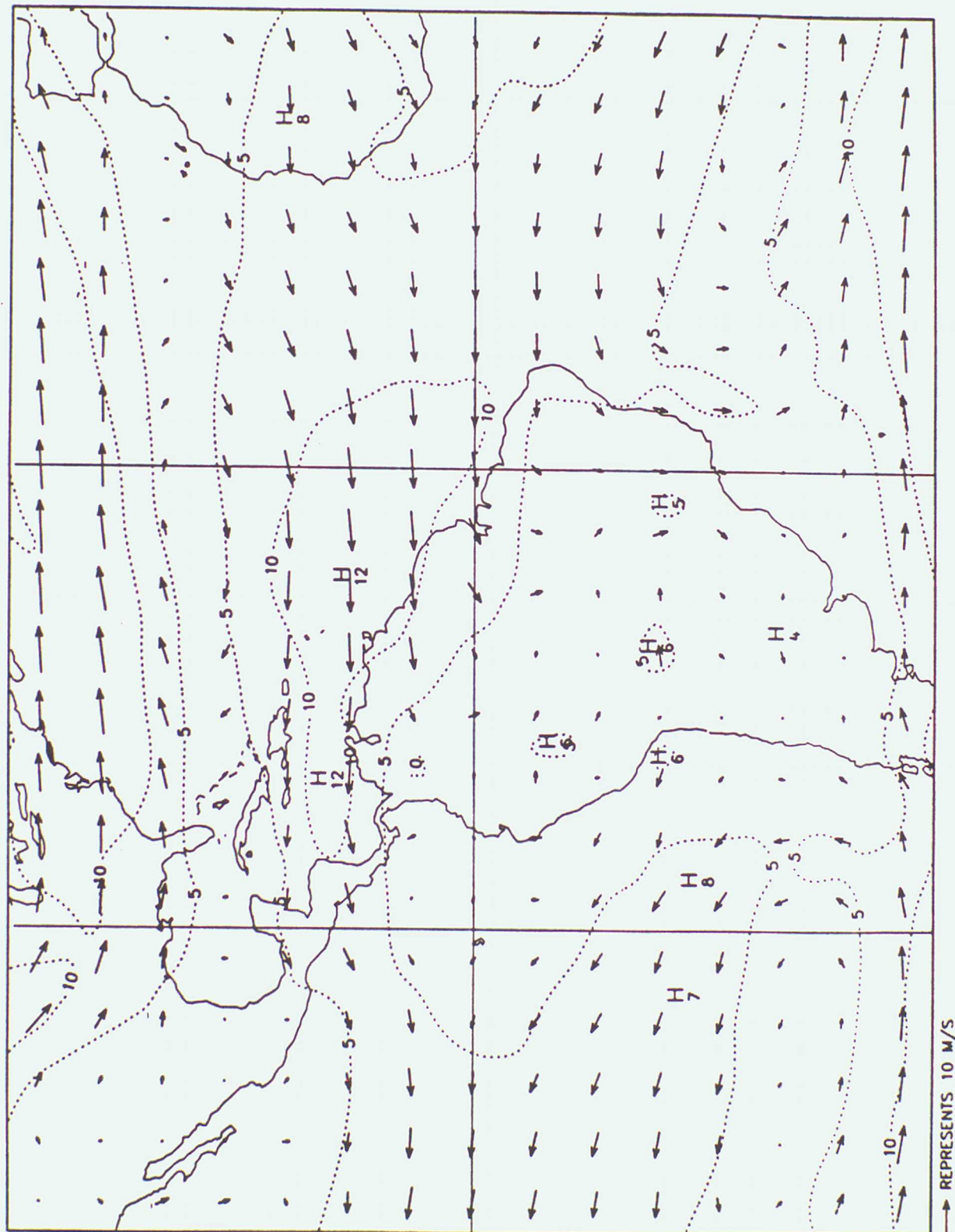


→ REPRESENTS 10 M/S





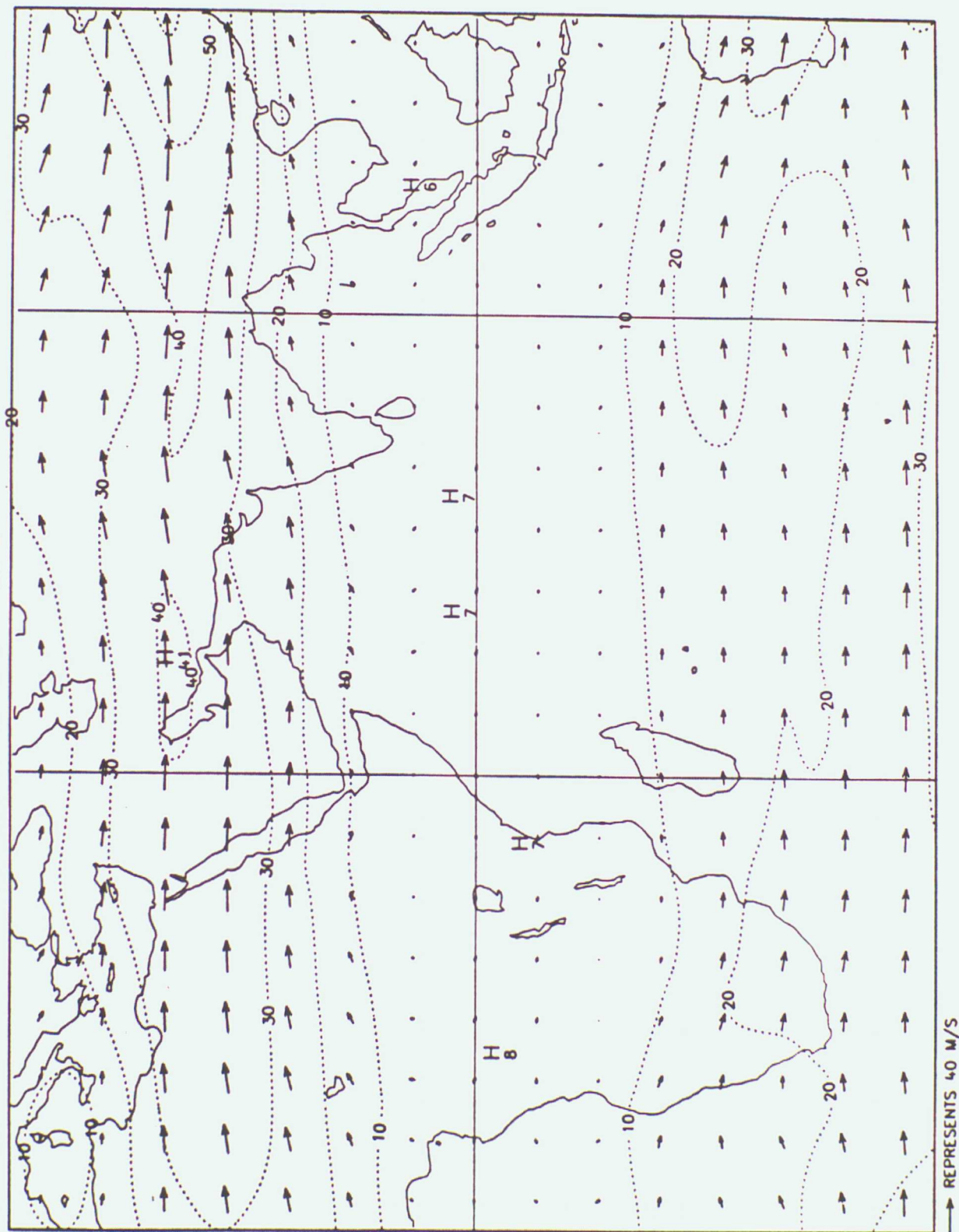
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 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
 850 MBS.  
 BETWEEN LONGS. 120 W - 0 W



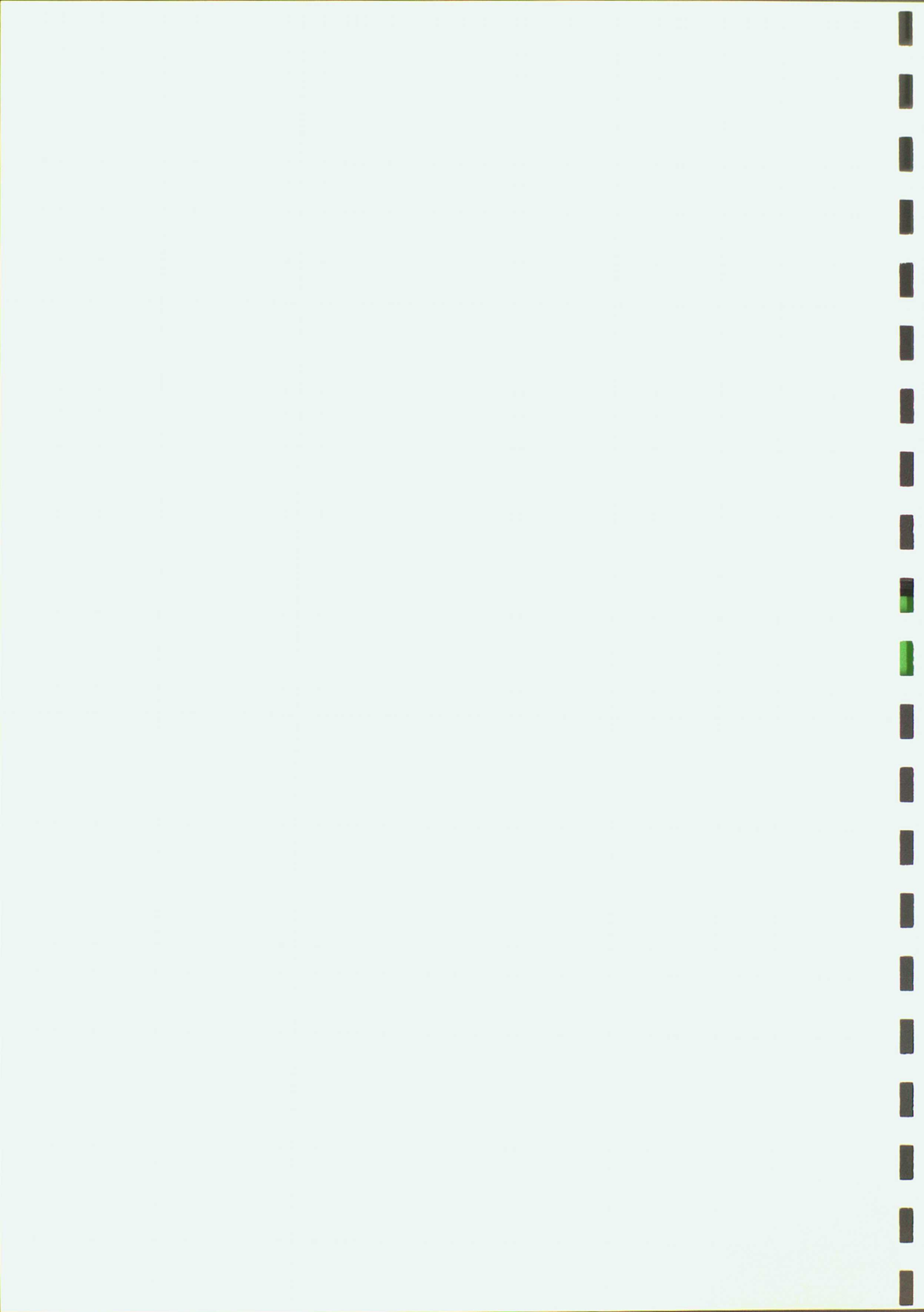




OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
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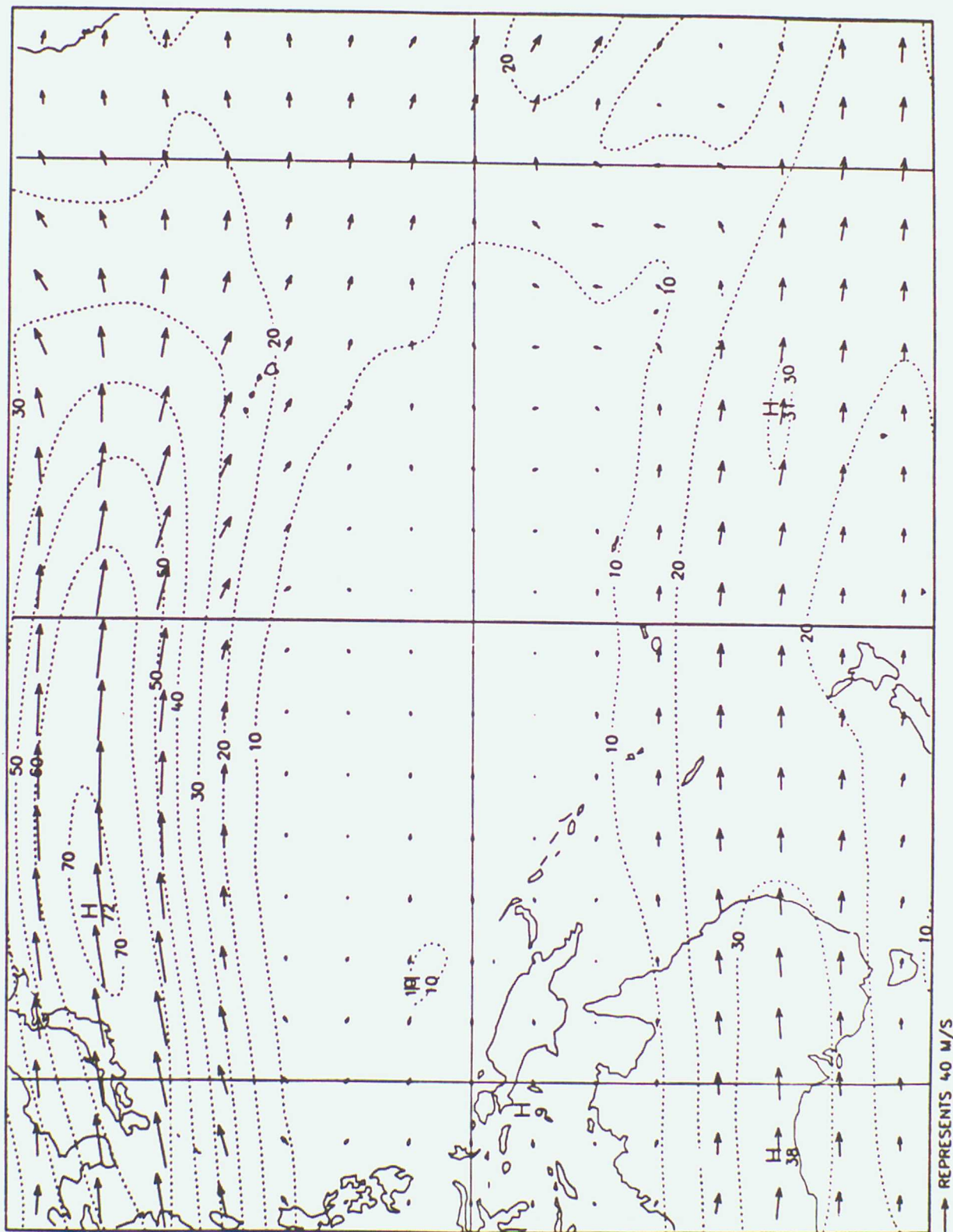


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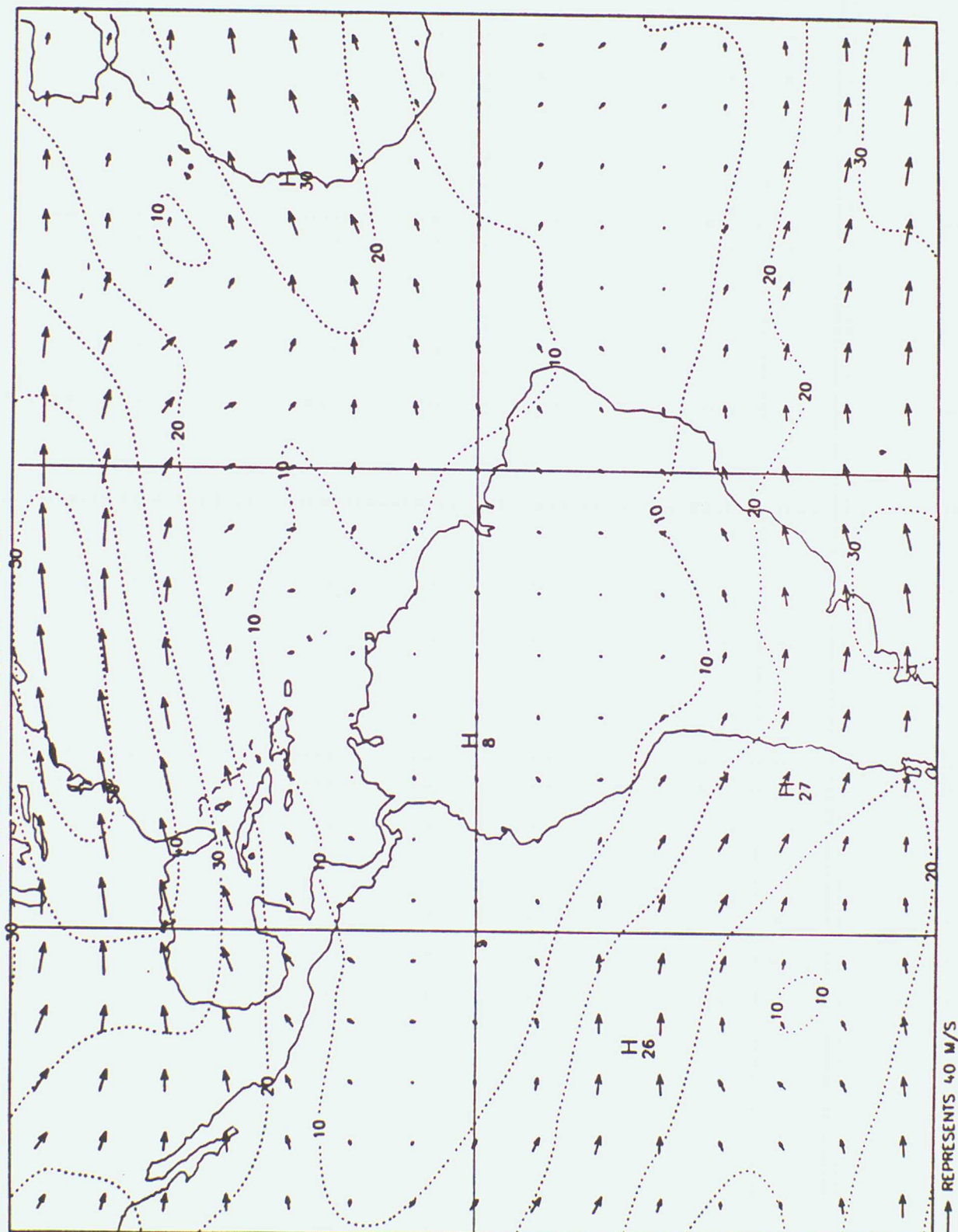
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 BETWEEN LONGS. 120 E - 120 W

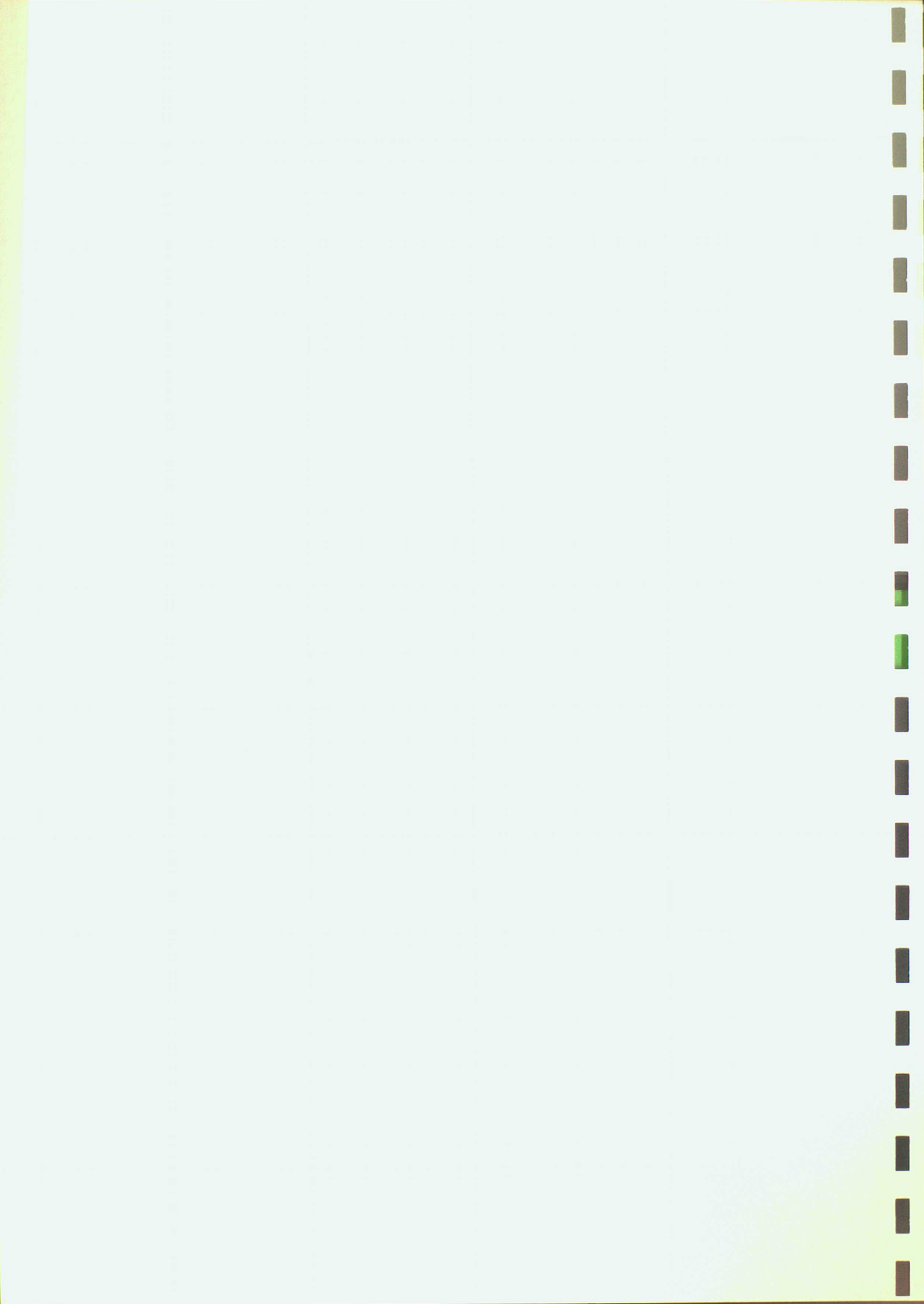






OPERATIONAL ARCHIVE MEANS. DECEMBER 1985  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 31/12/1985 DAY 365  
250 MBS. BETWEEN LONGS. 120 W - 0 W







**JANUARY**  
**1986**



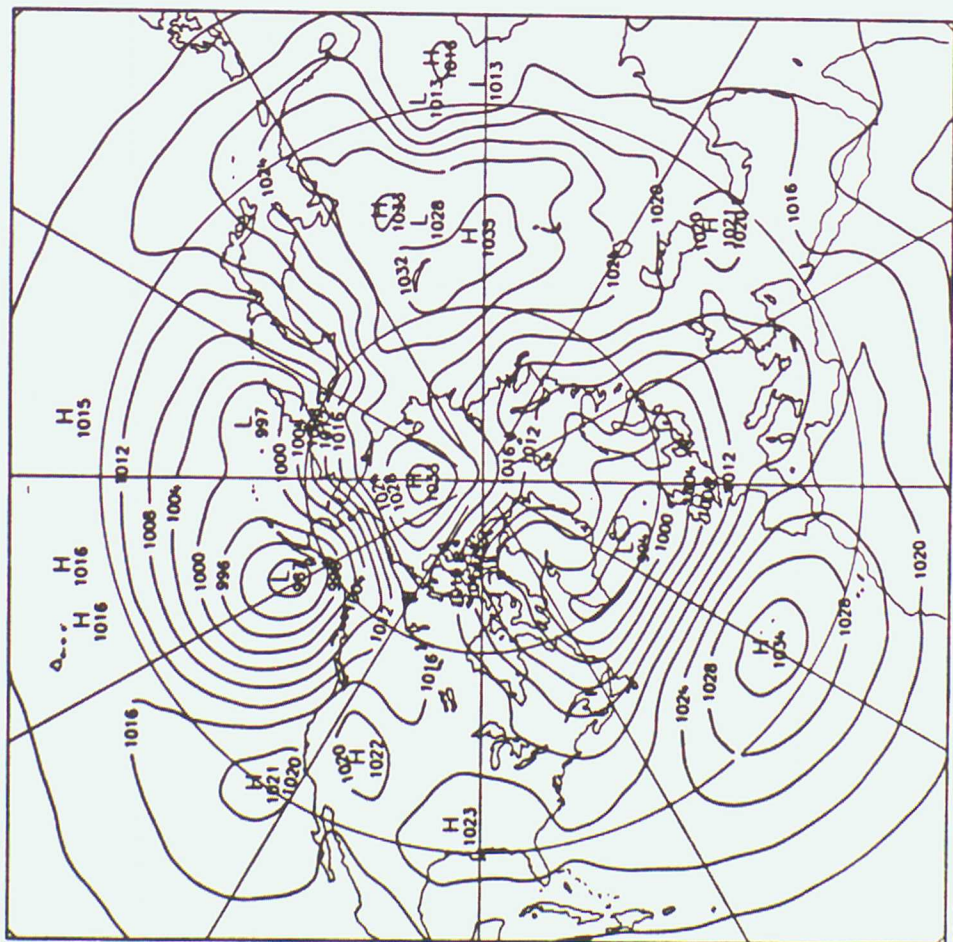




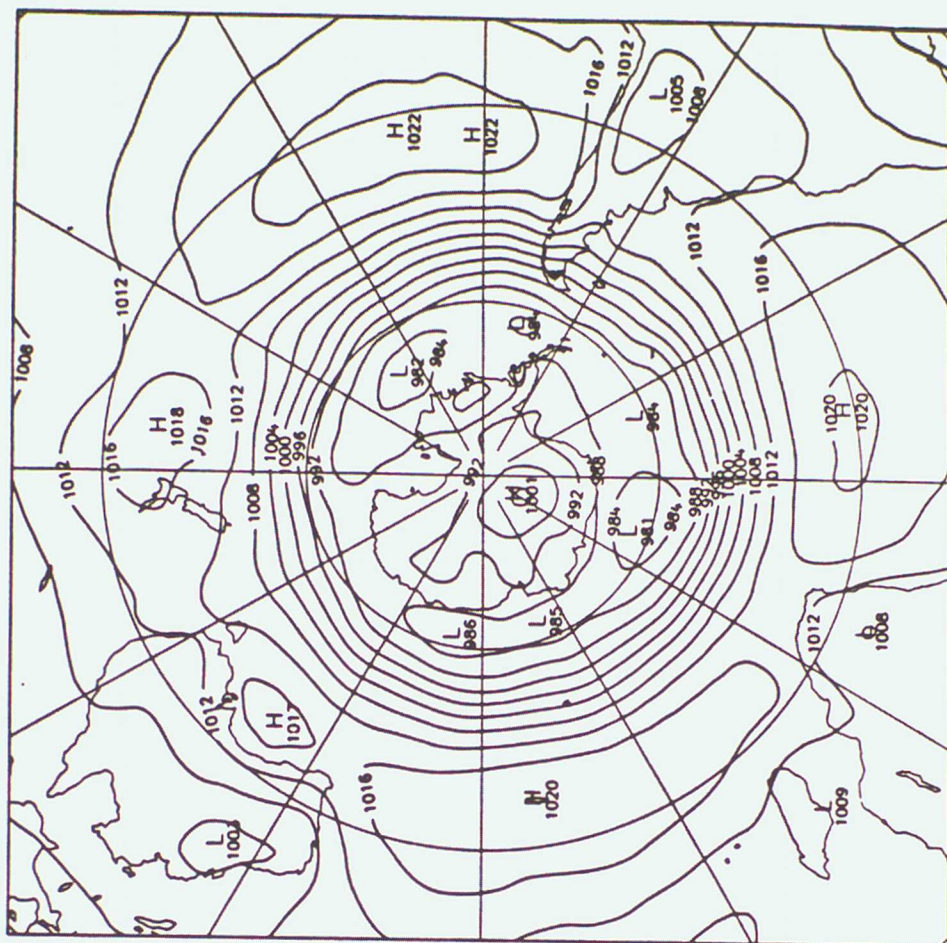
OPERATIONAL ARCHIVE MEANS. JANUARY 1986

PMSL

AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
LEVEL: SEA LEVEL



CONTOUR INTERVAL: 4 MB      UNITS: MB

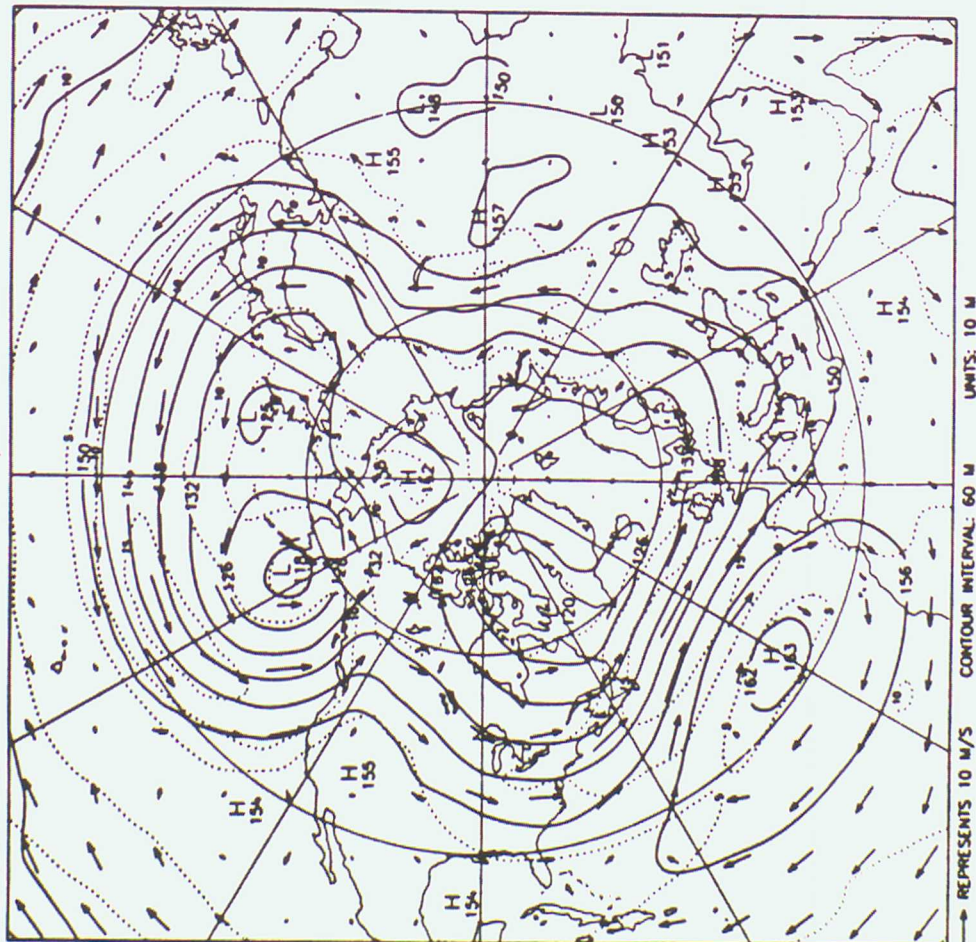


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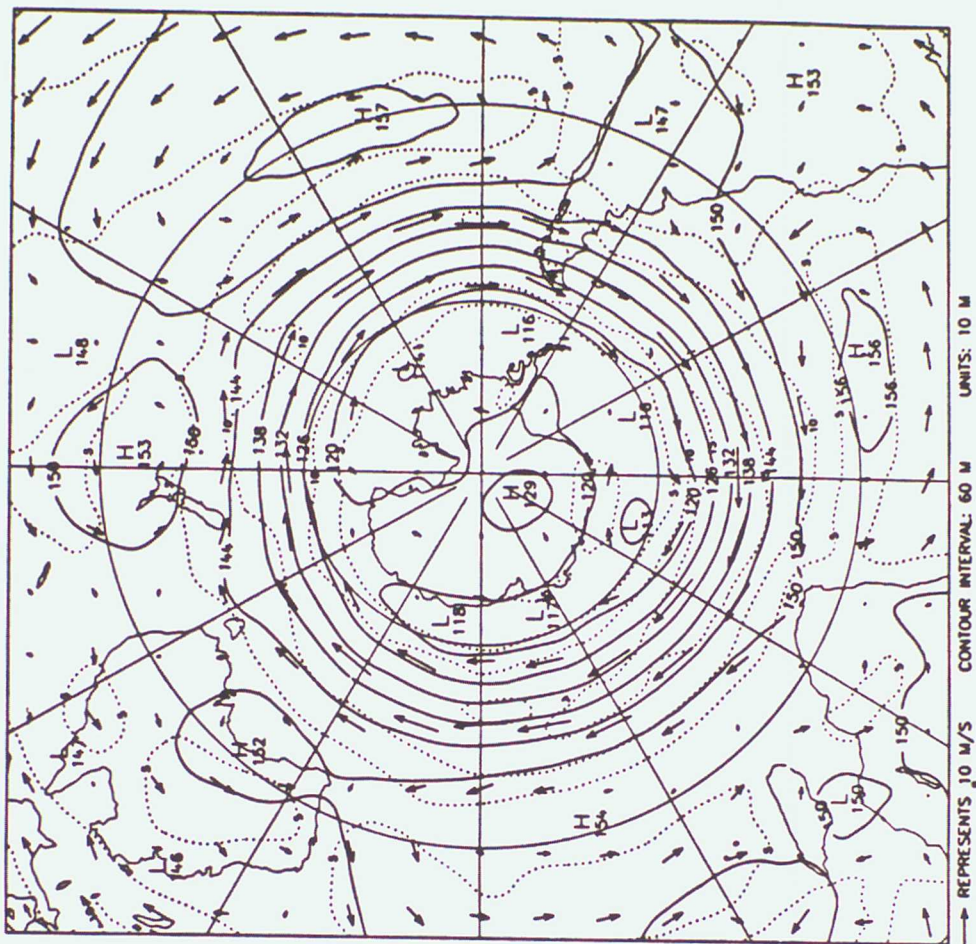




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 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
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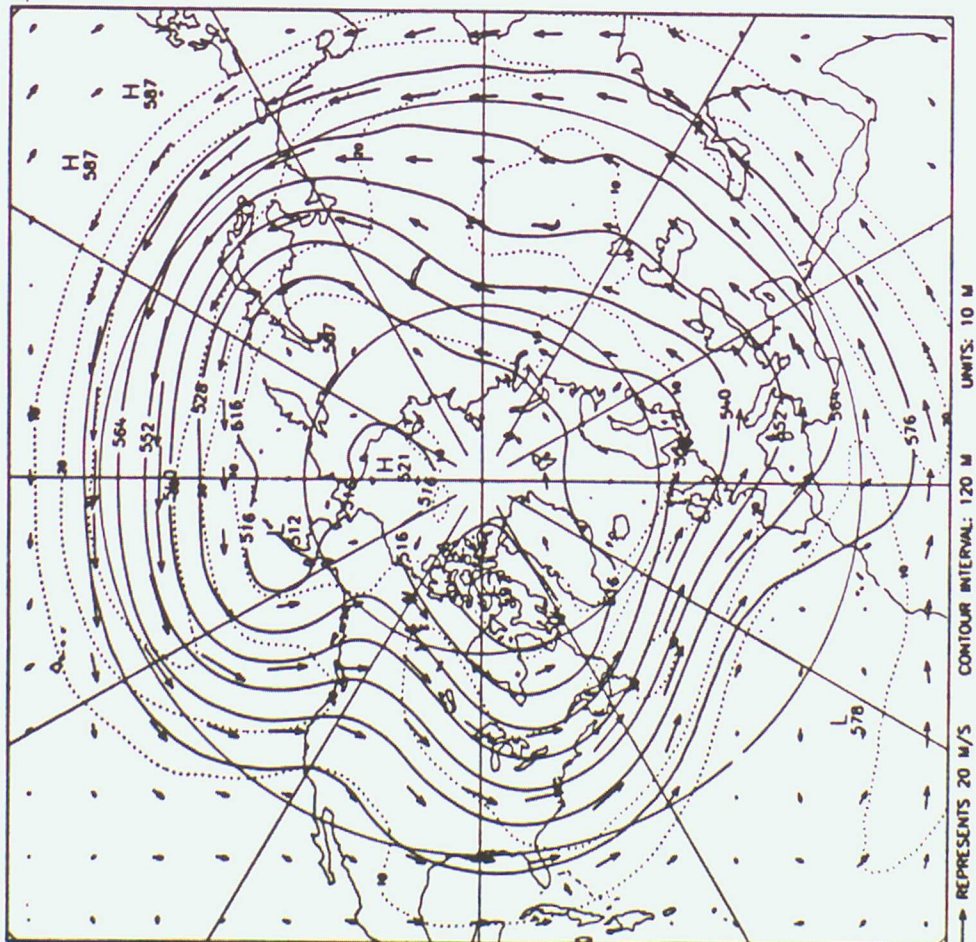
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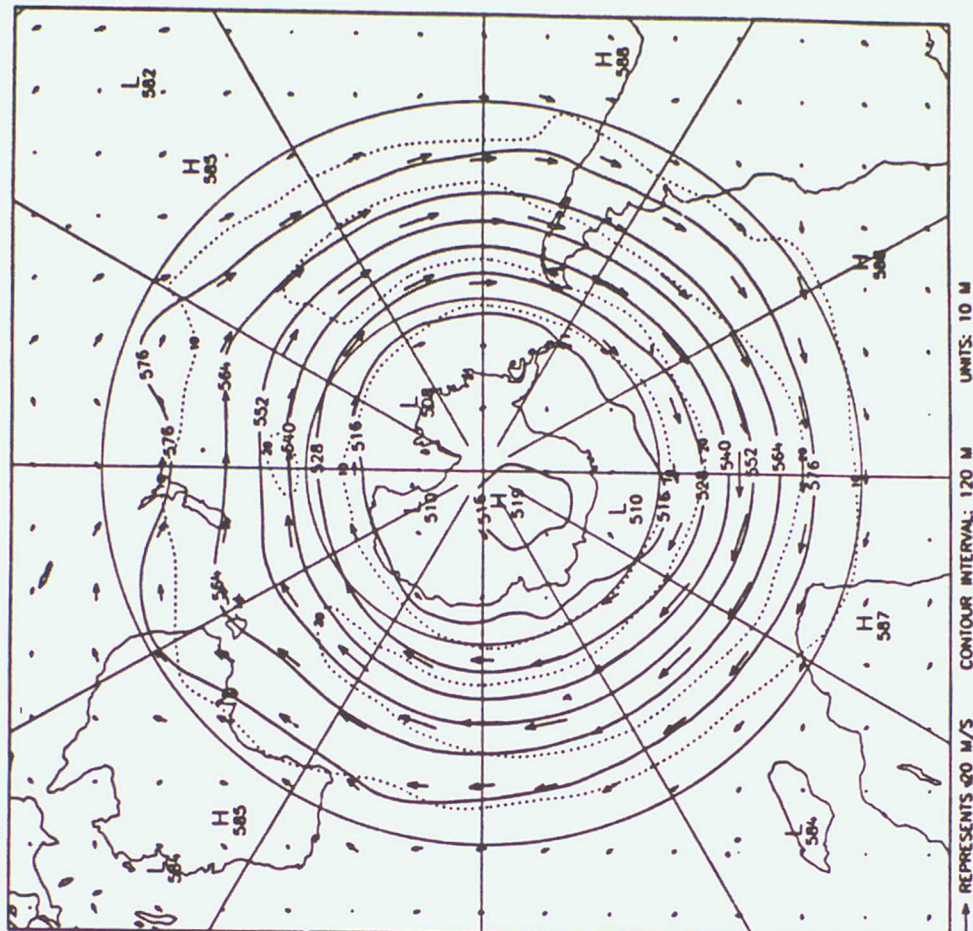




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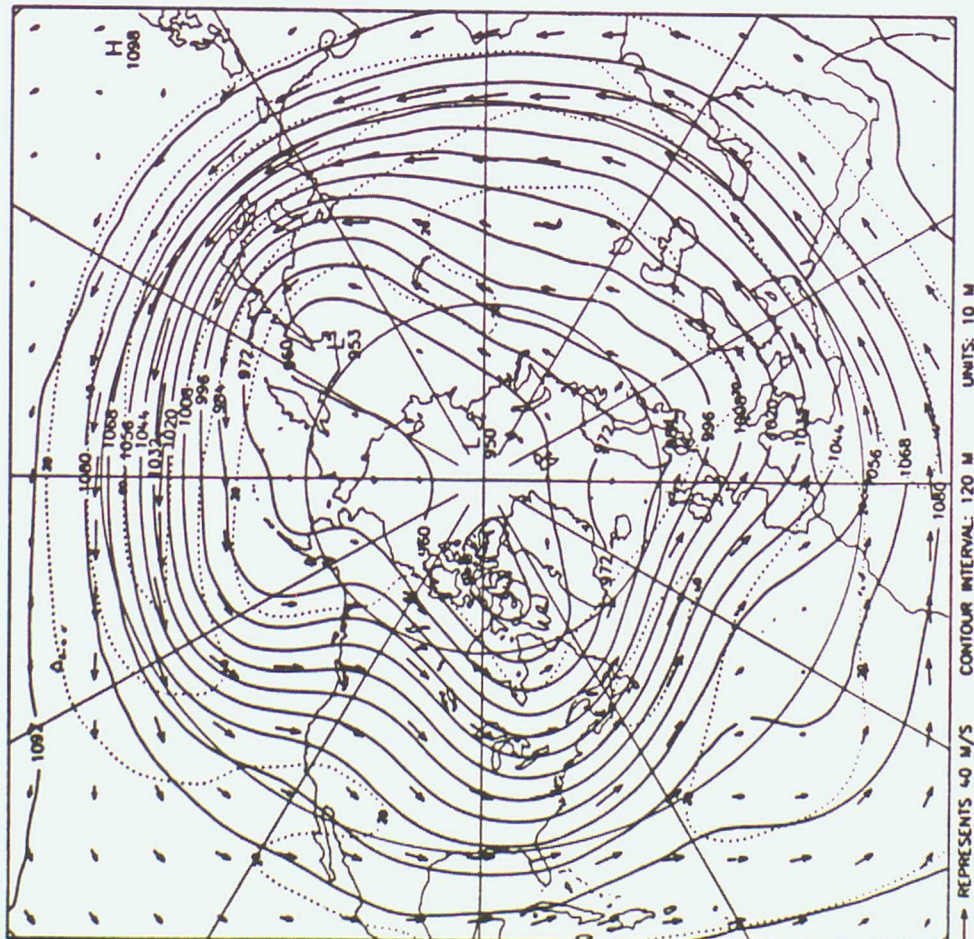
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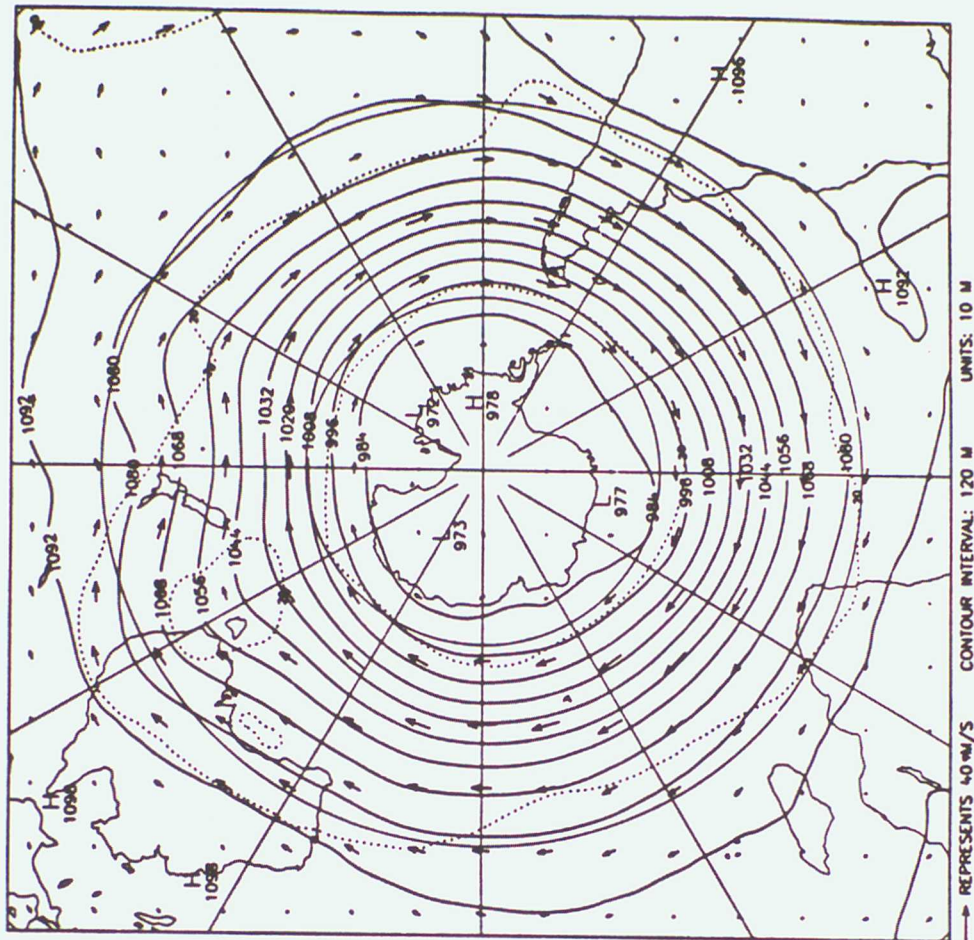




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 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
 LEVEL: 250 MB



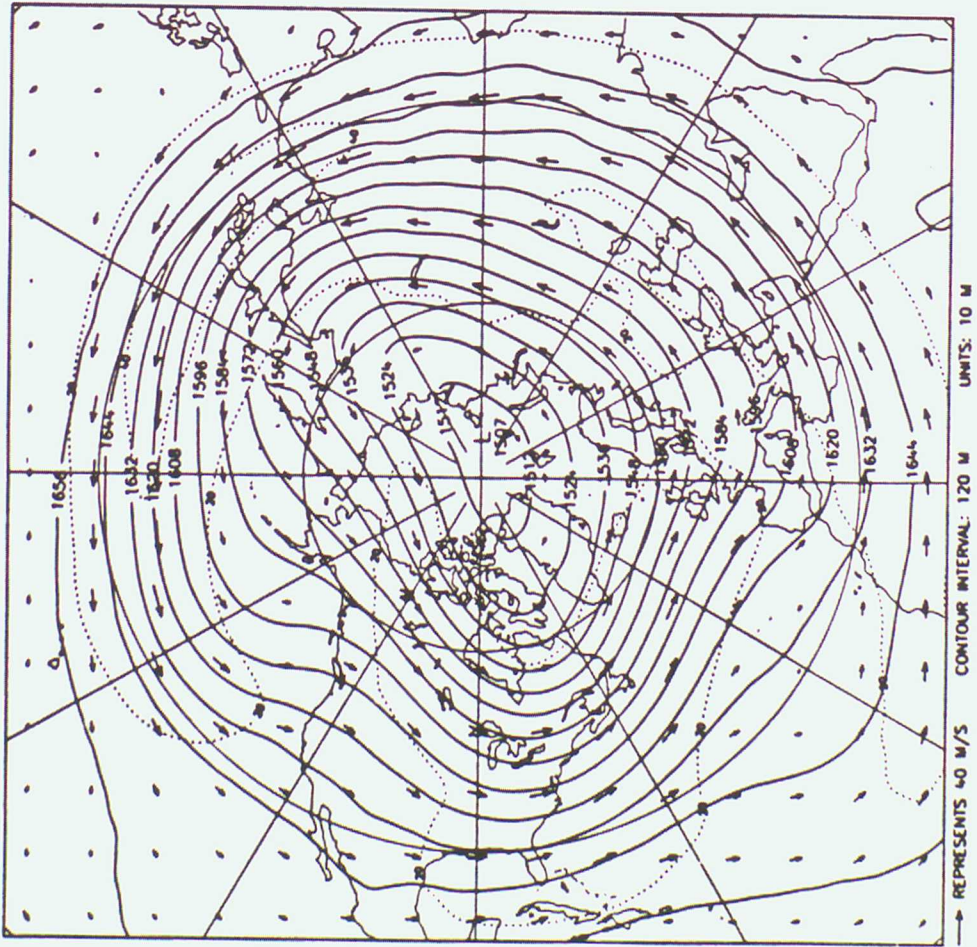
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 HEIGHTS, WIND ARROWS AND ISOTACHS.  
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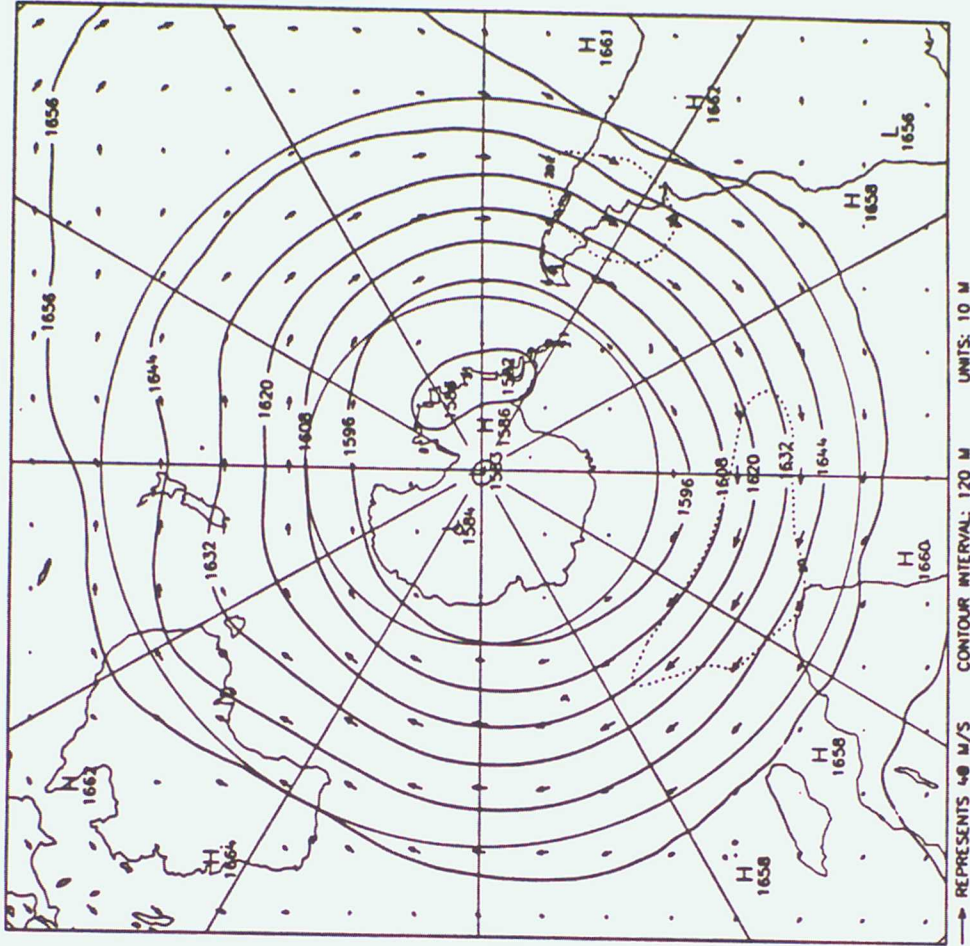


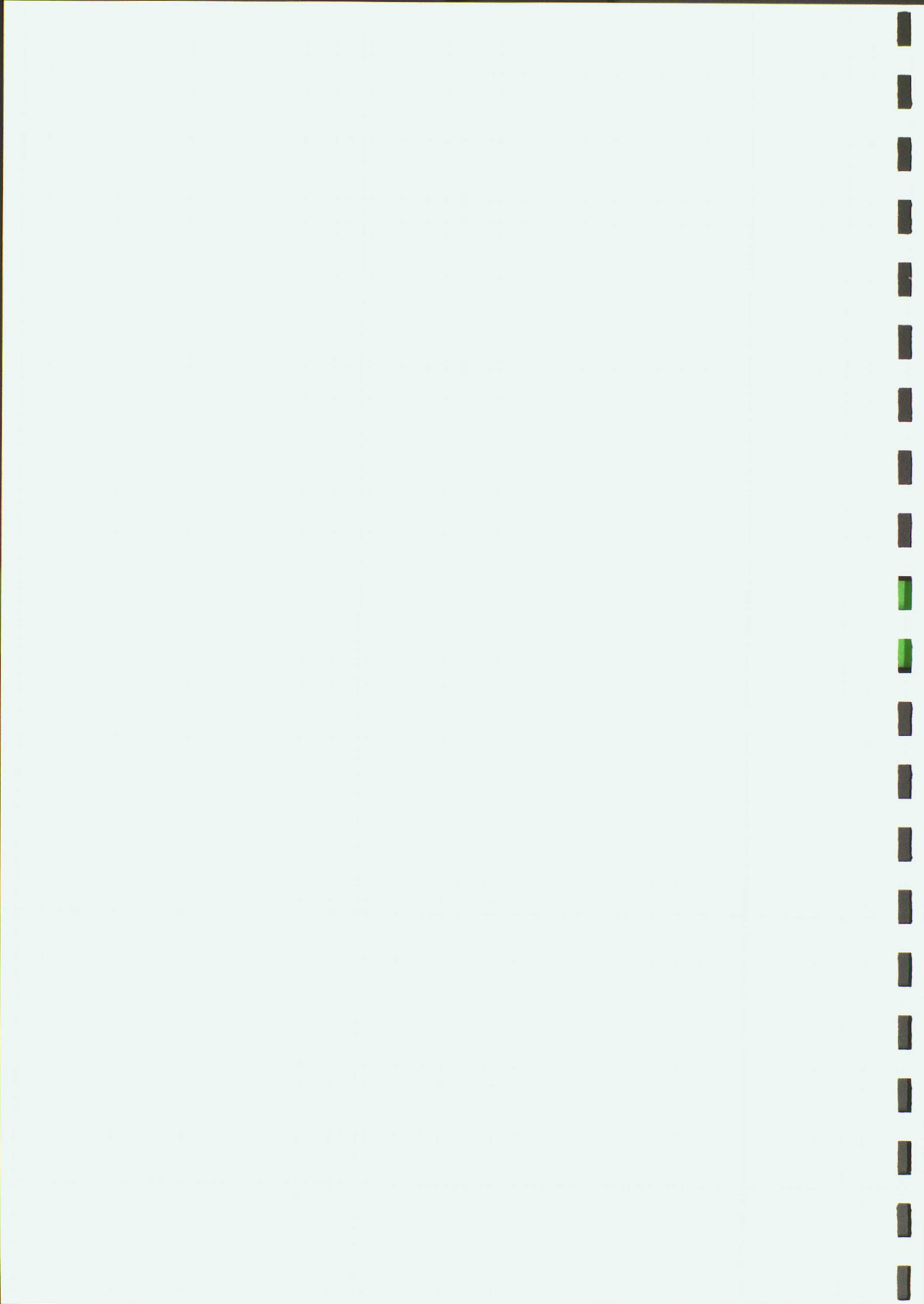


OPERATIONAL ARCHIVE MEANS. JANUARY 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
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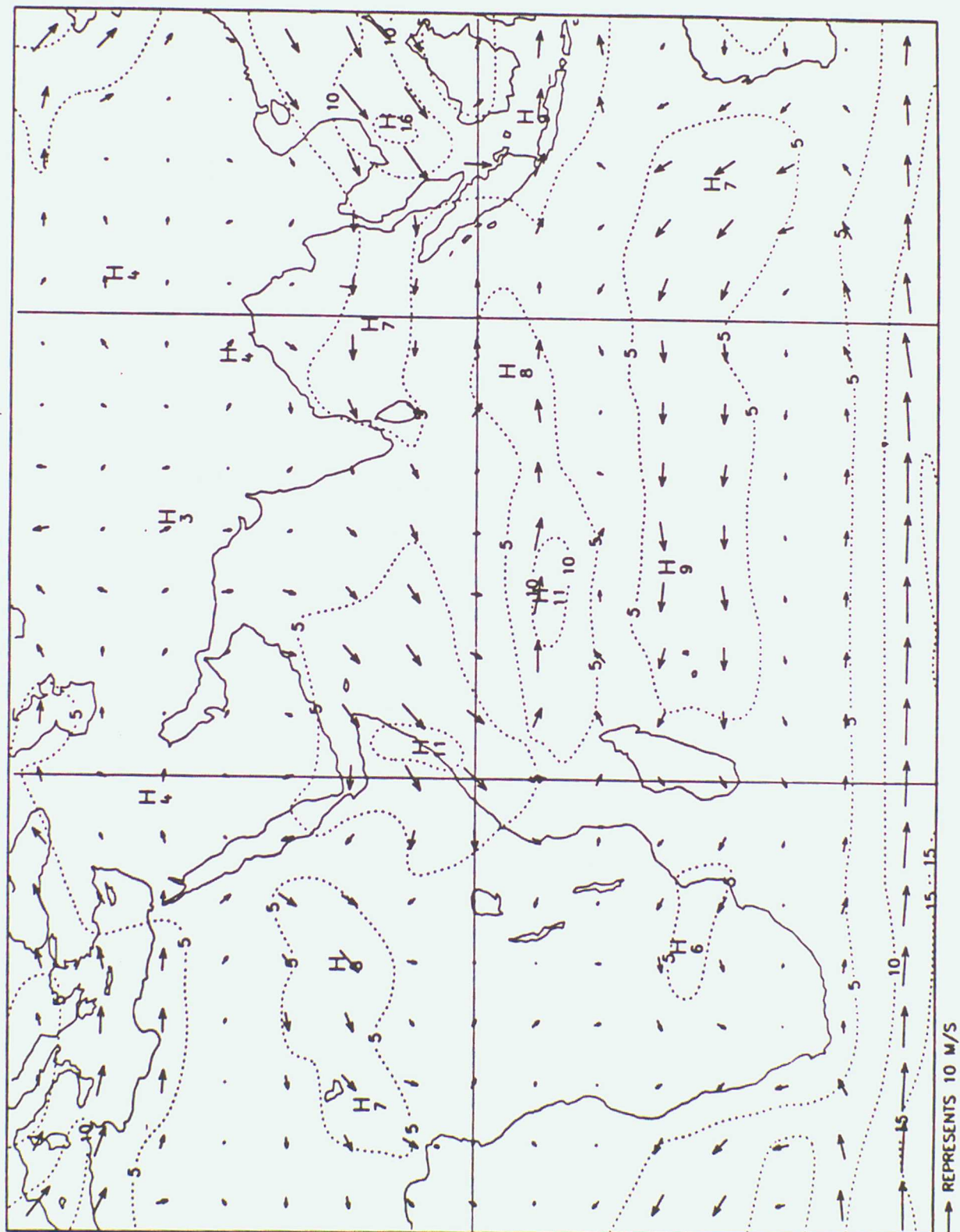
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 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
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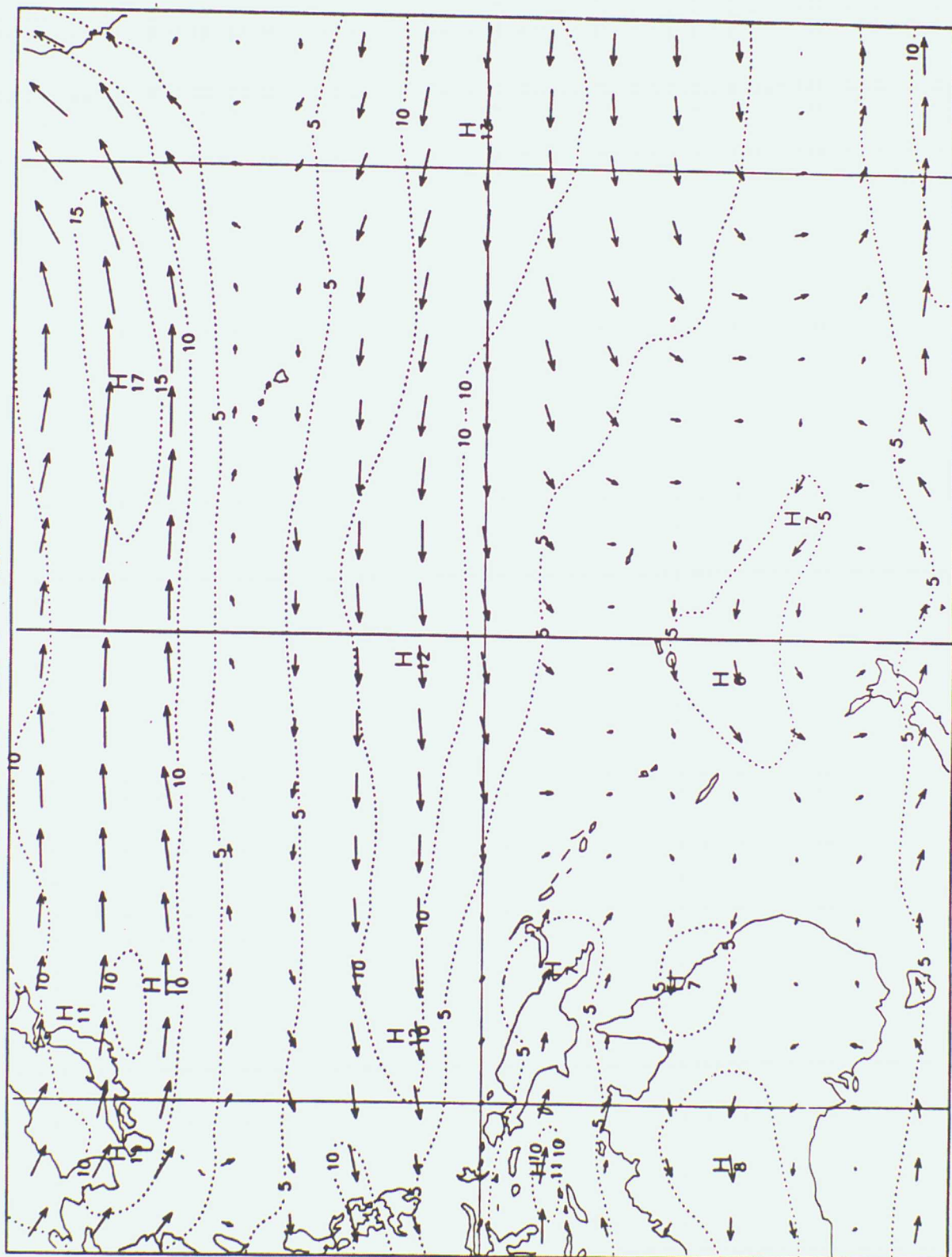
OPERATIONAL ARCHIVE MEANS. JANUARY 1986  
WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
850 MBS. BETWEEN LONGS. 0 E - 120 E







OPERATIONAL ARCHIVE MEANS. JANUARY 1986  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
850 MBS.  
BETWEEN LONGS. 120 E - 120 W

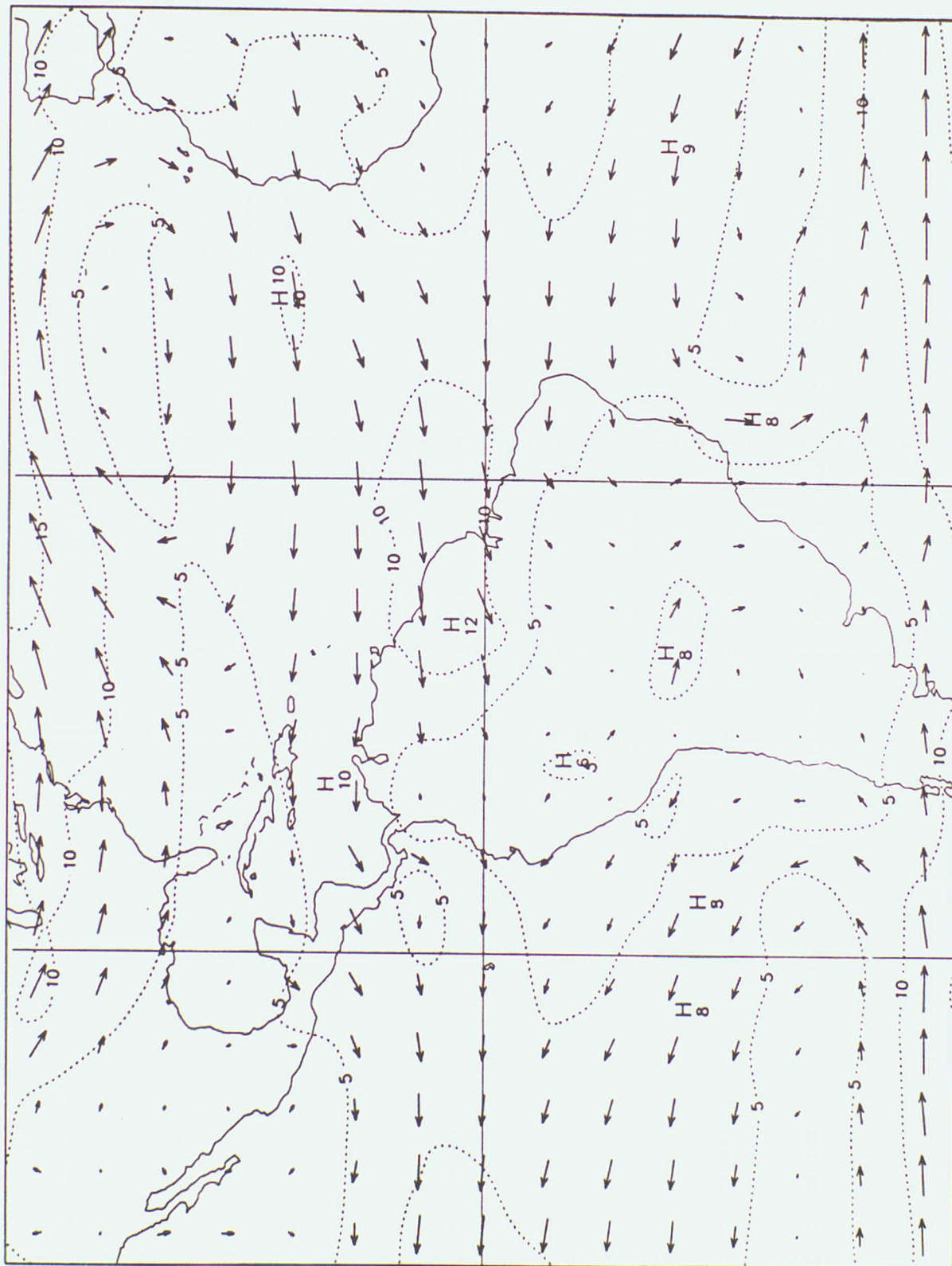


→ REPRESENTS 10 M/S





OPERATIONAL ARCHIVE MEANS. JANUARY 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.  
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 850 MBS.  
 BETWEEN LONGS. 120 W - 0 W

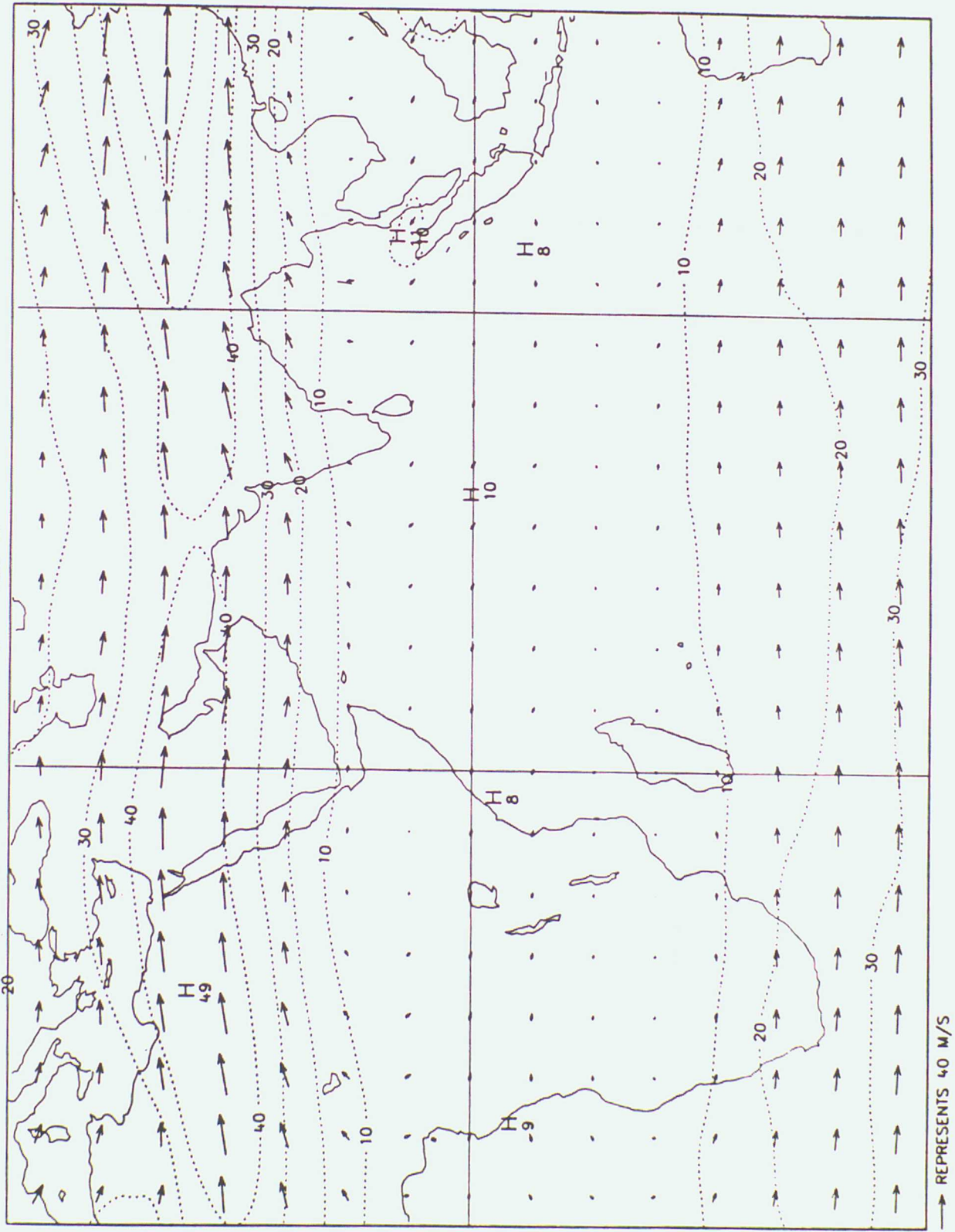


→ REPRESENTS 10 M/S





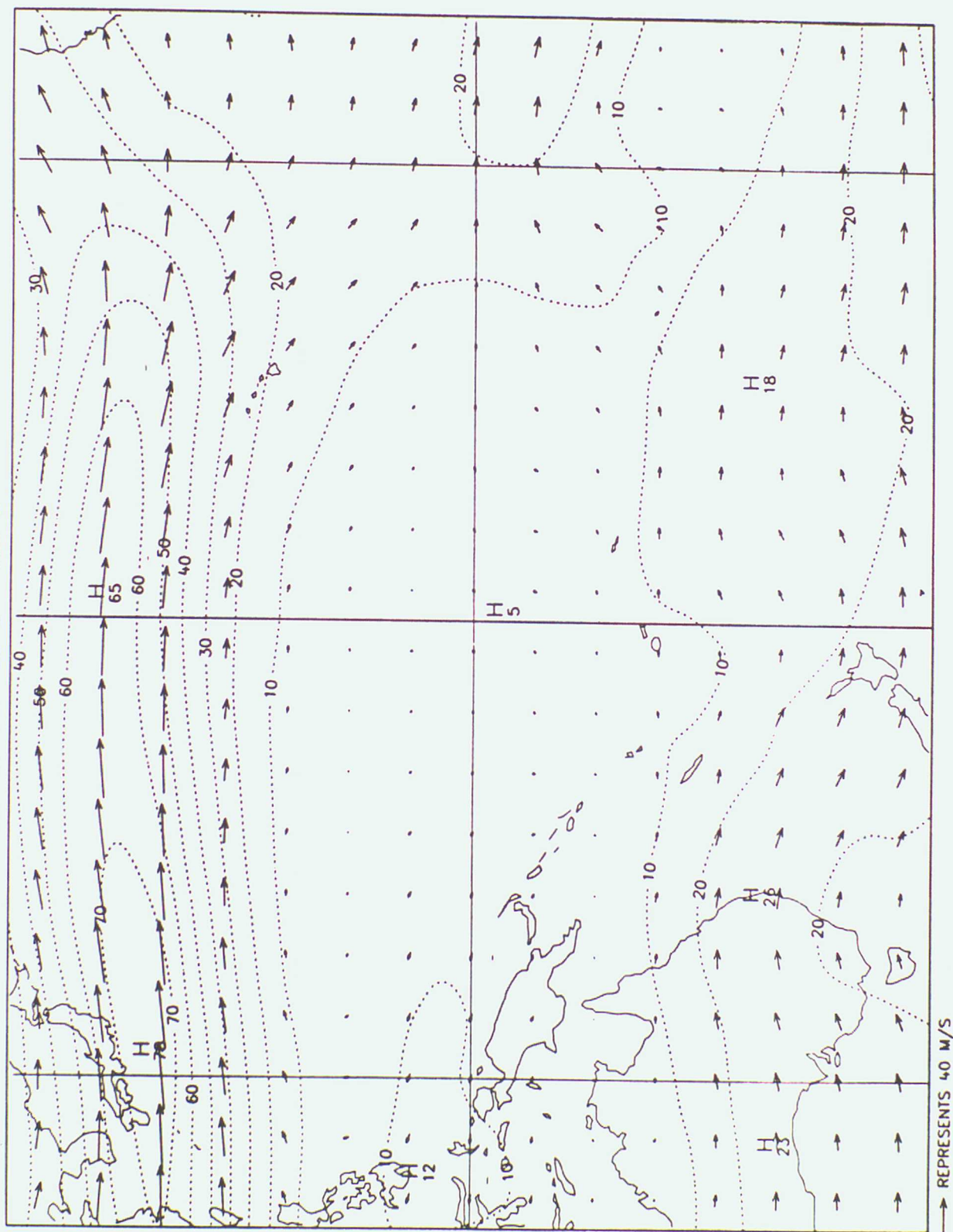
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 250 MBS.  
 BETWEEN LONGS. 0 E - 120 E







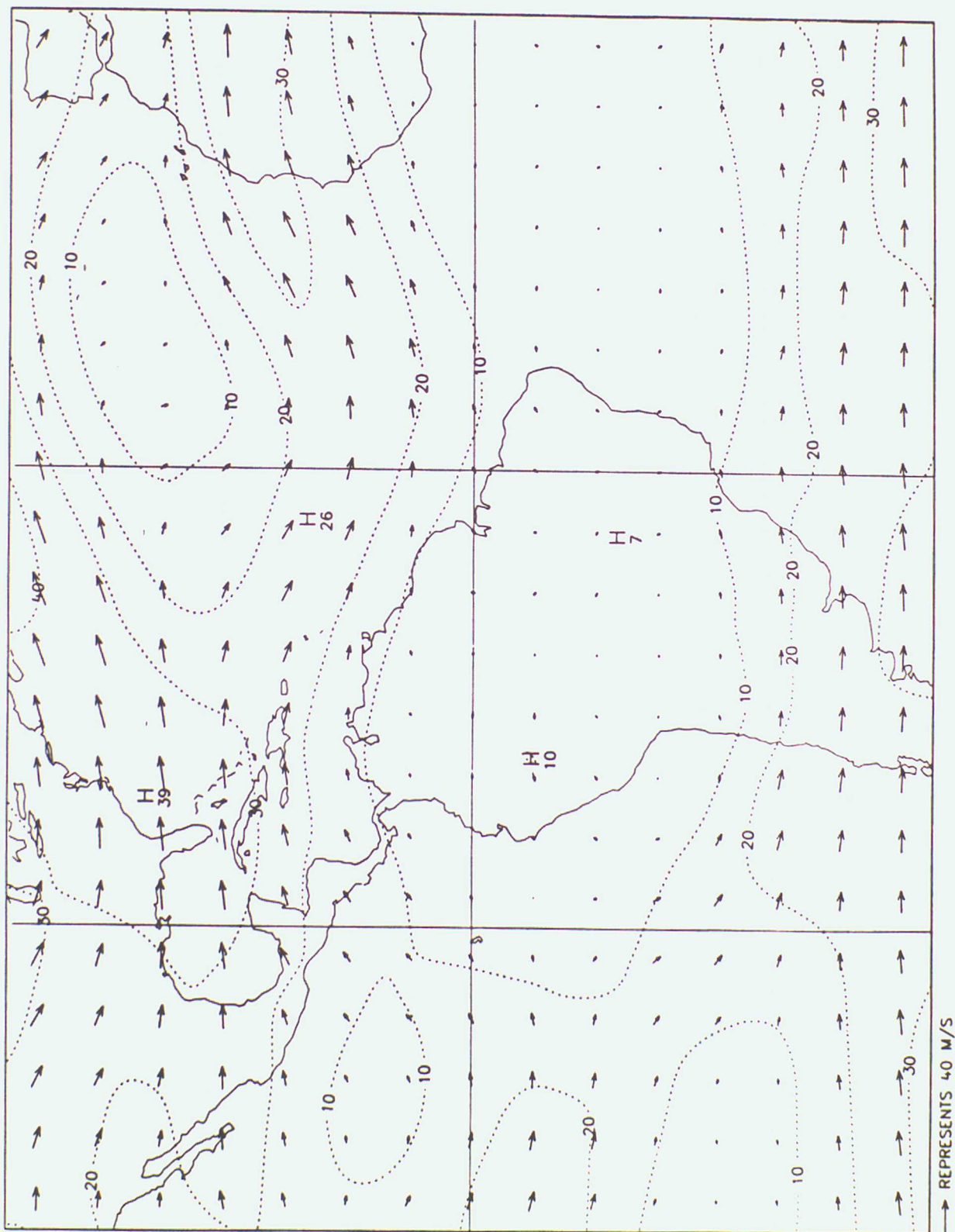
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 AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
 BETWEEN LONGS. 120° E - 120° W  
 250 MBS.







OPERATIONAL ARCHIVE MEANS. JANUARY 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/1/1986 DAY 1 TO 12Z ON 31/1/1986 DAY 31  
 250 MBS.  
 BETWEEN LONGS. 120 W - 0 W







**FEBRUARY**  
**1986**

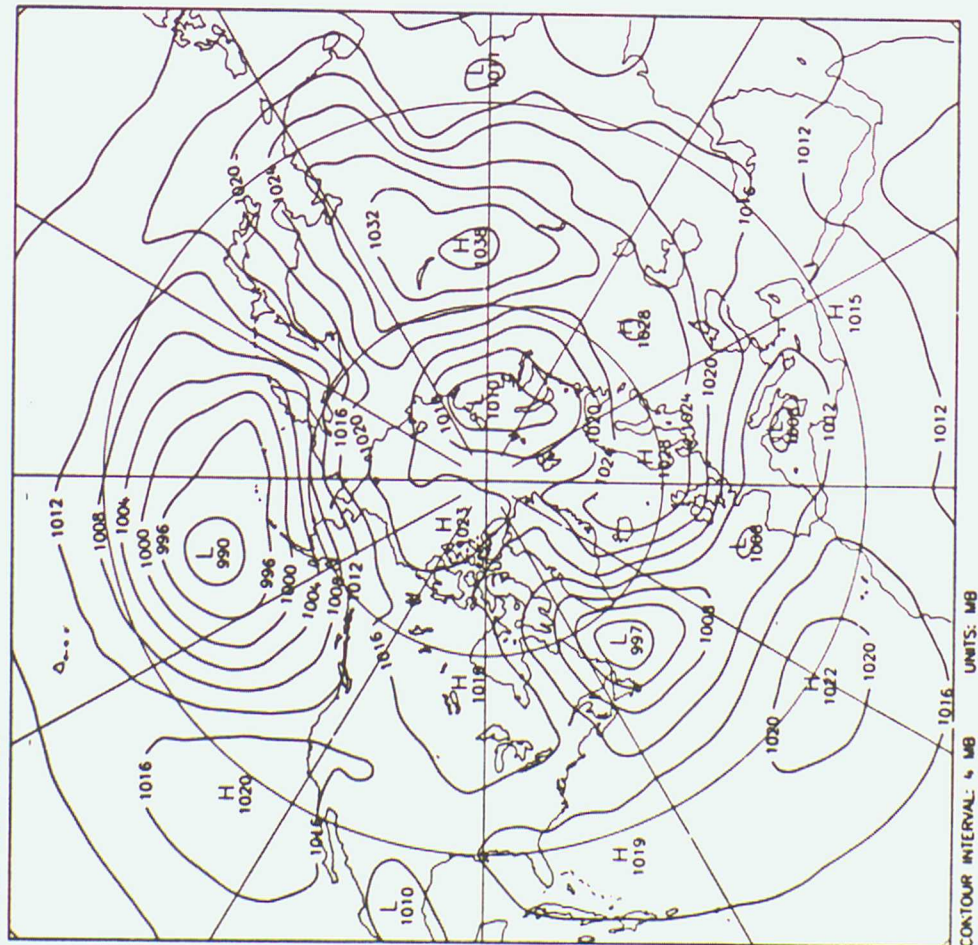






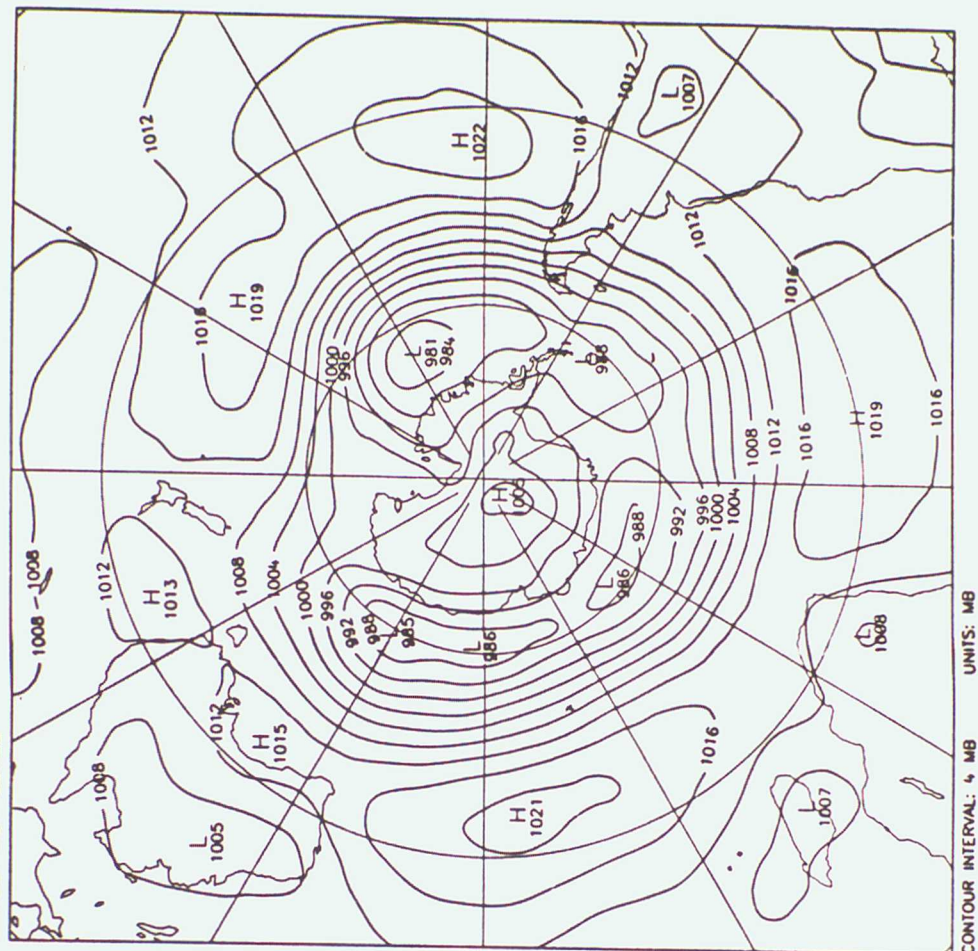
OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
PMSL

AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
LEVEL: SEA LEVEL



OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
PMSL

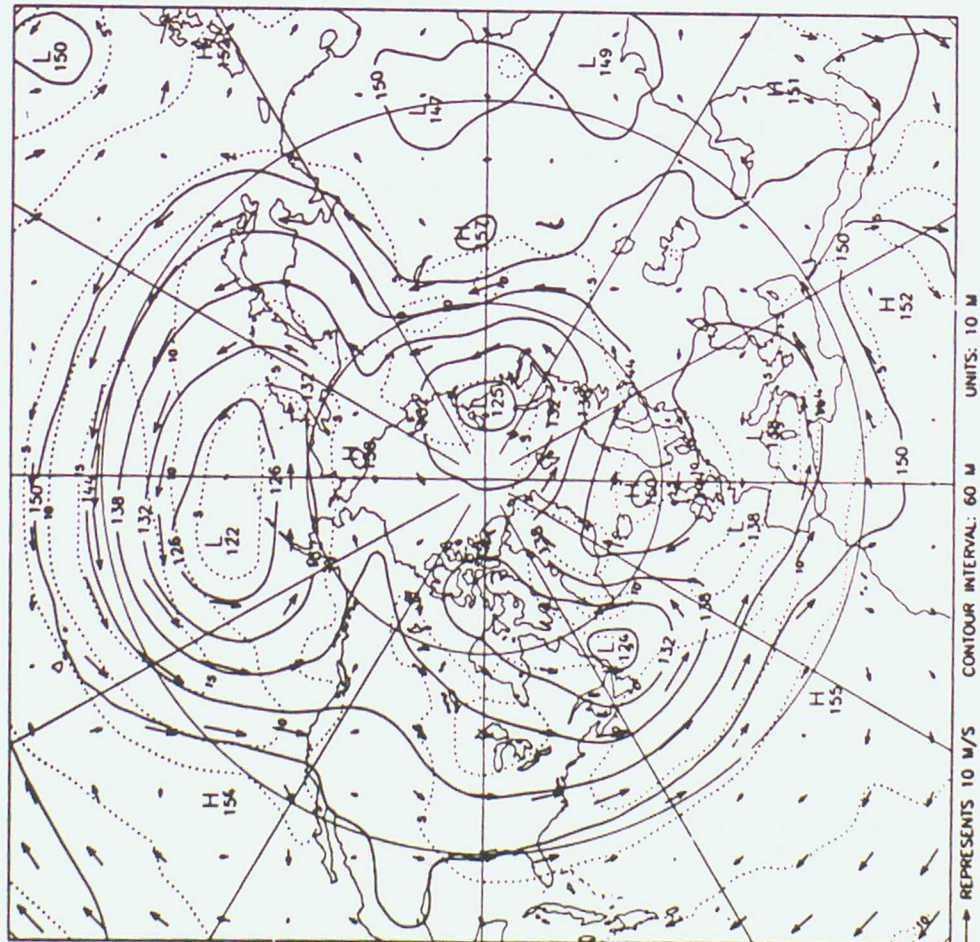
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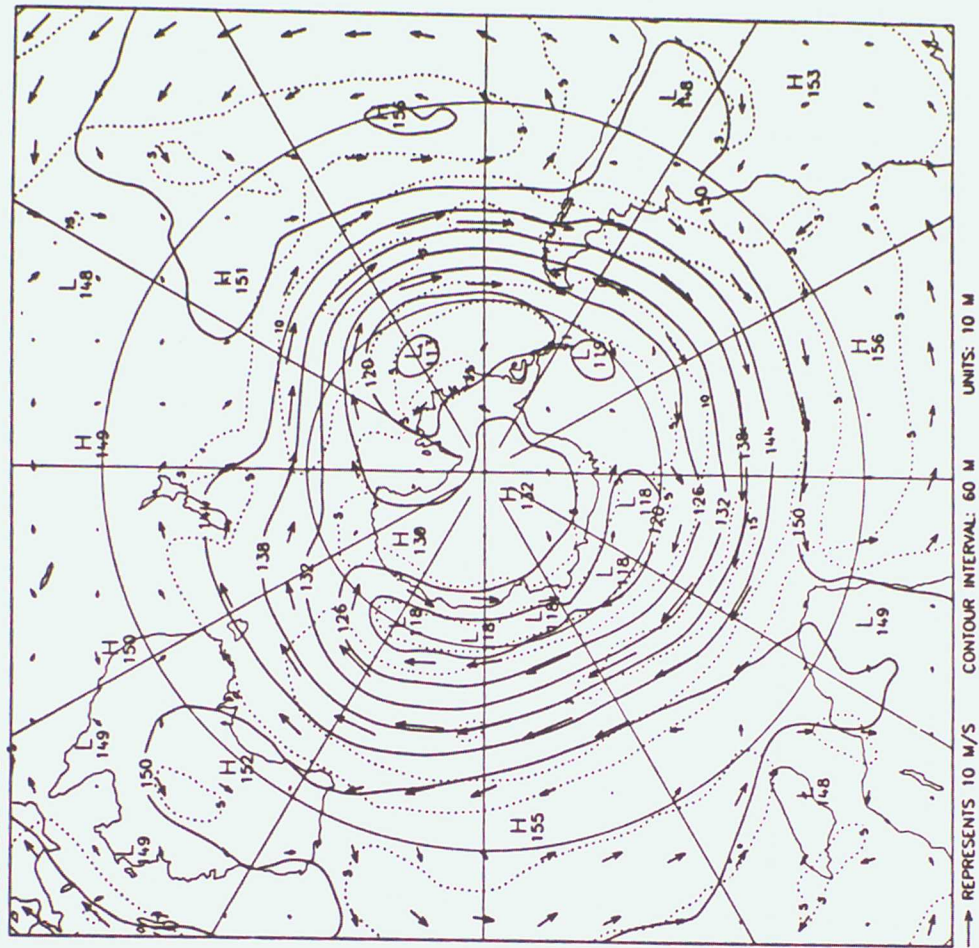




OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
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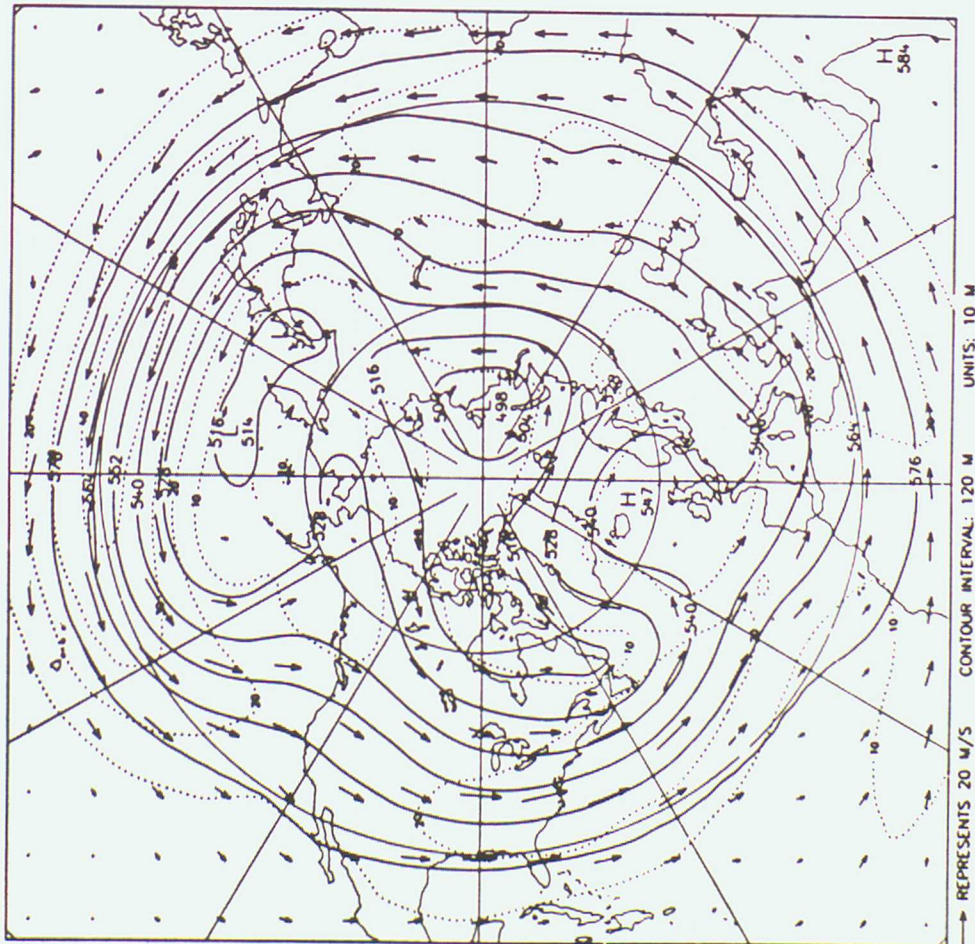
OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
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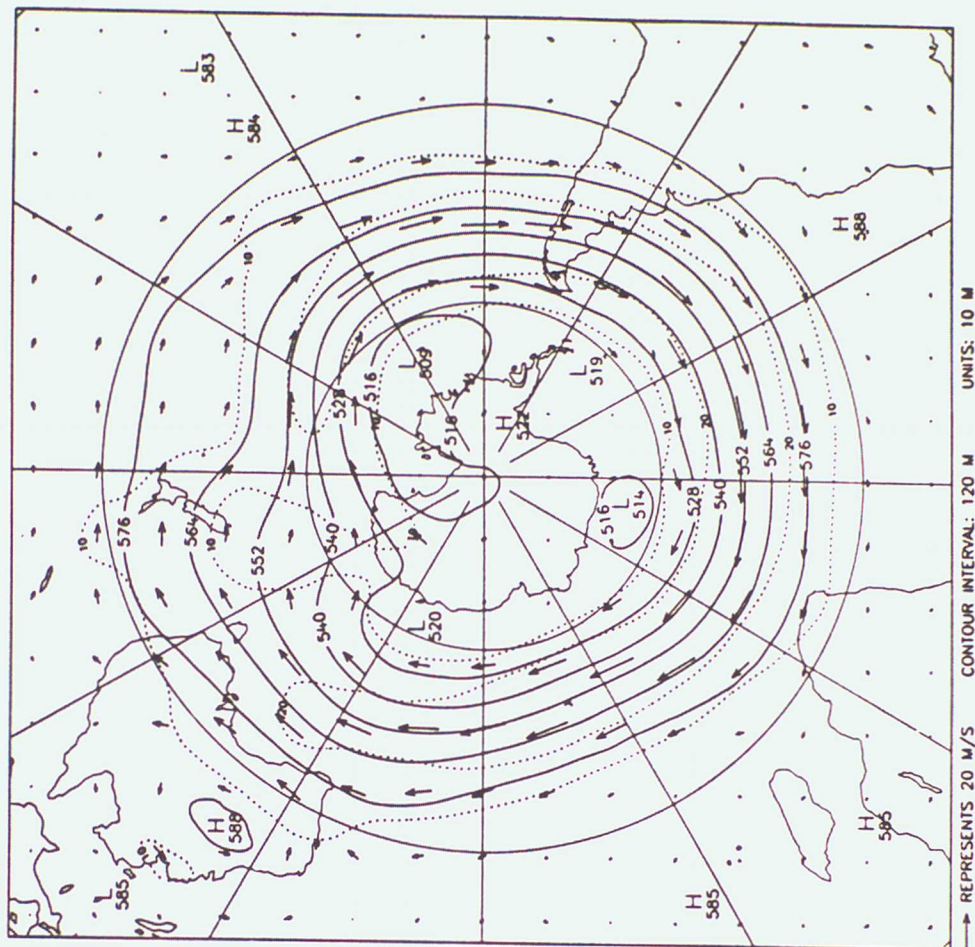




OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
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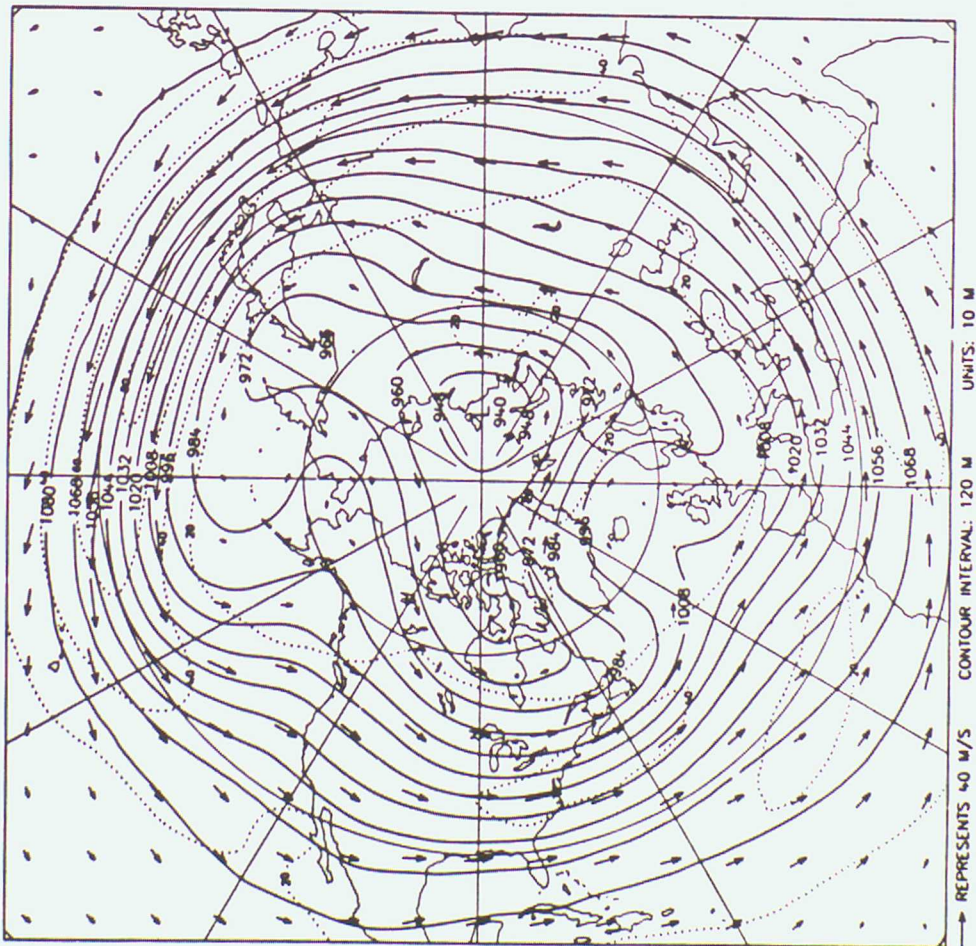
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 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
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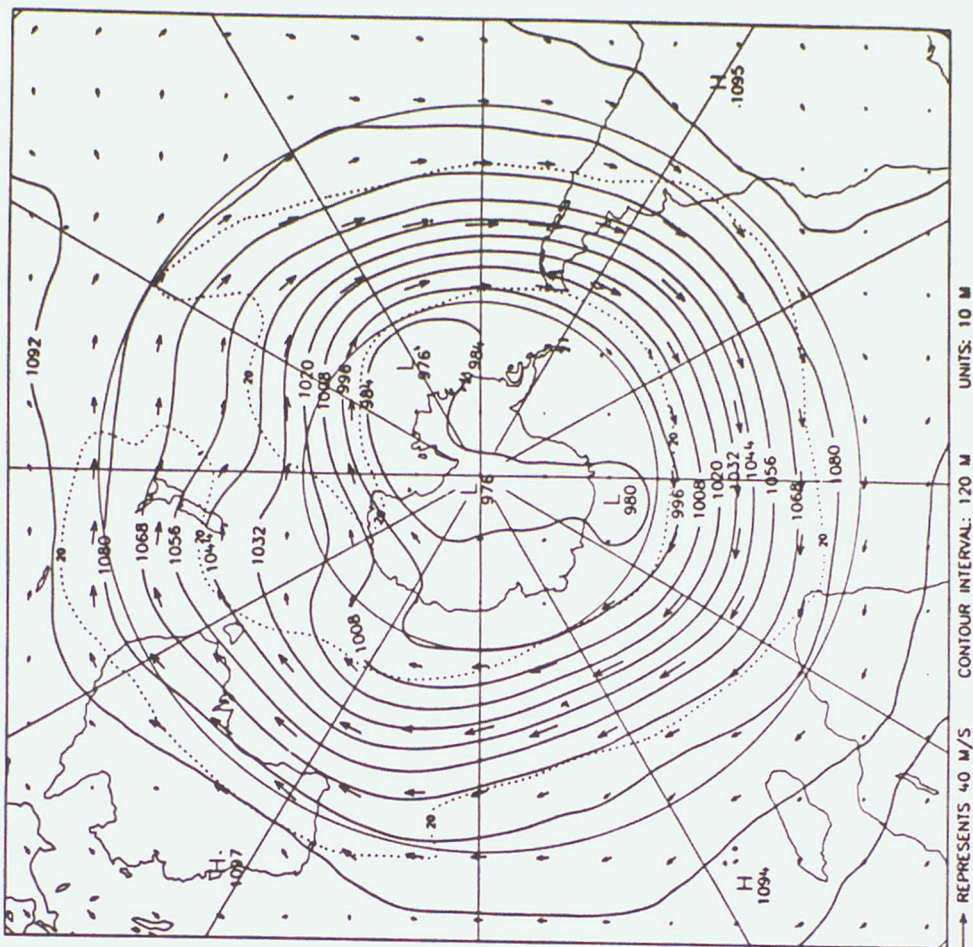




OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
 LEVEL: 250 MB



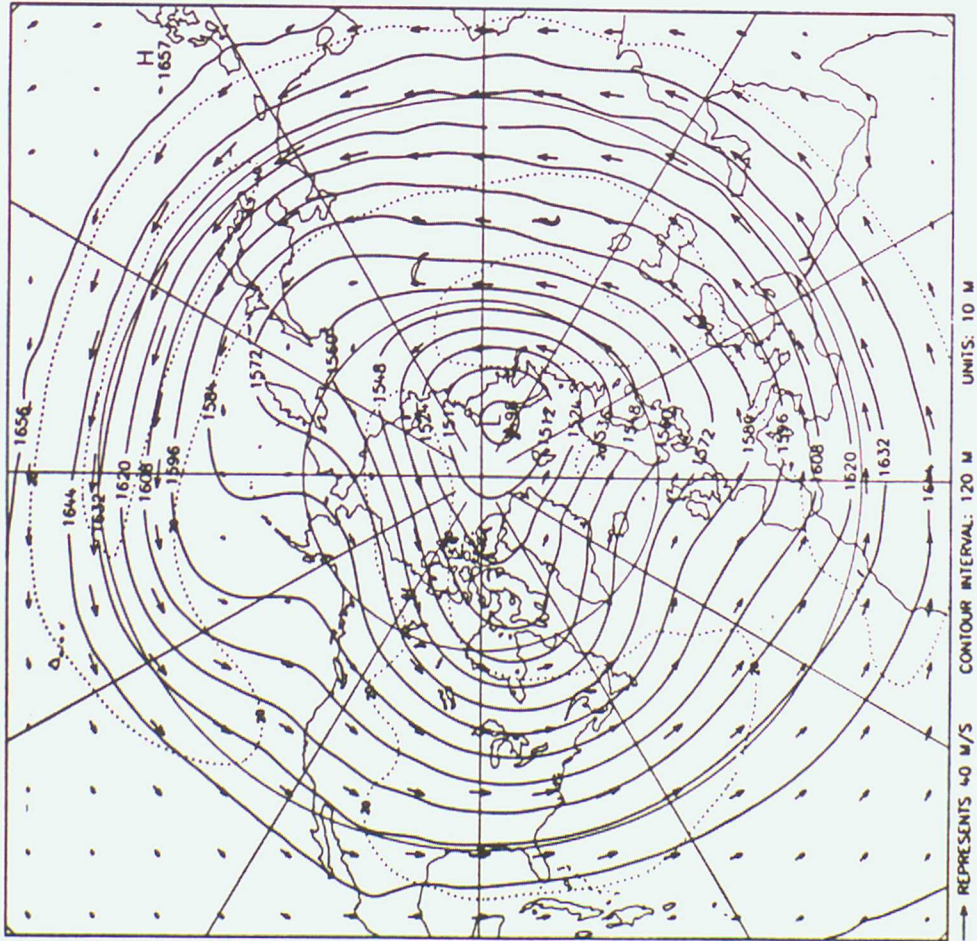
OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
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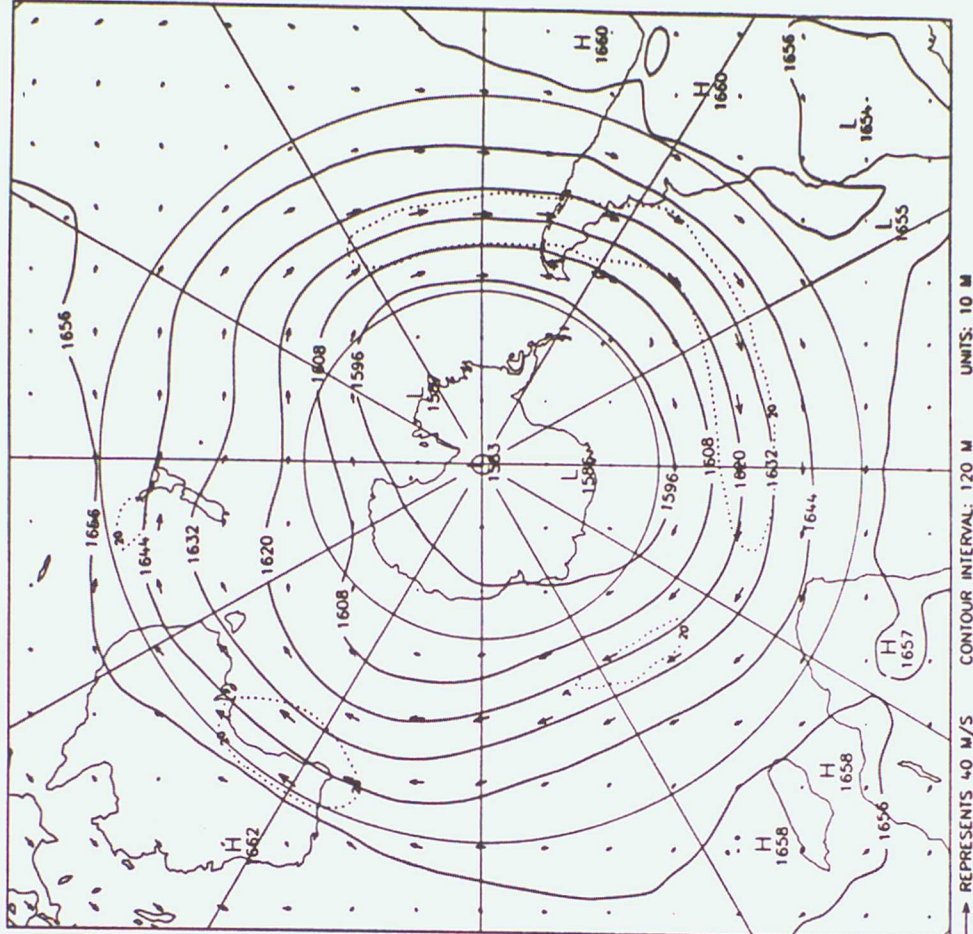




OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
 LEVEL: 100 MB



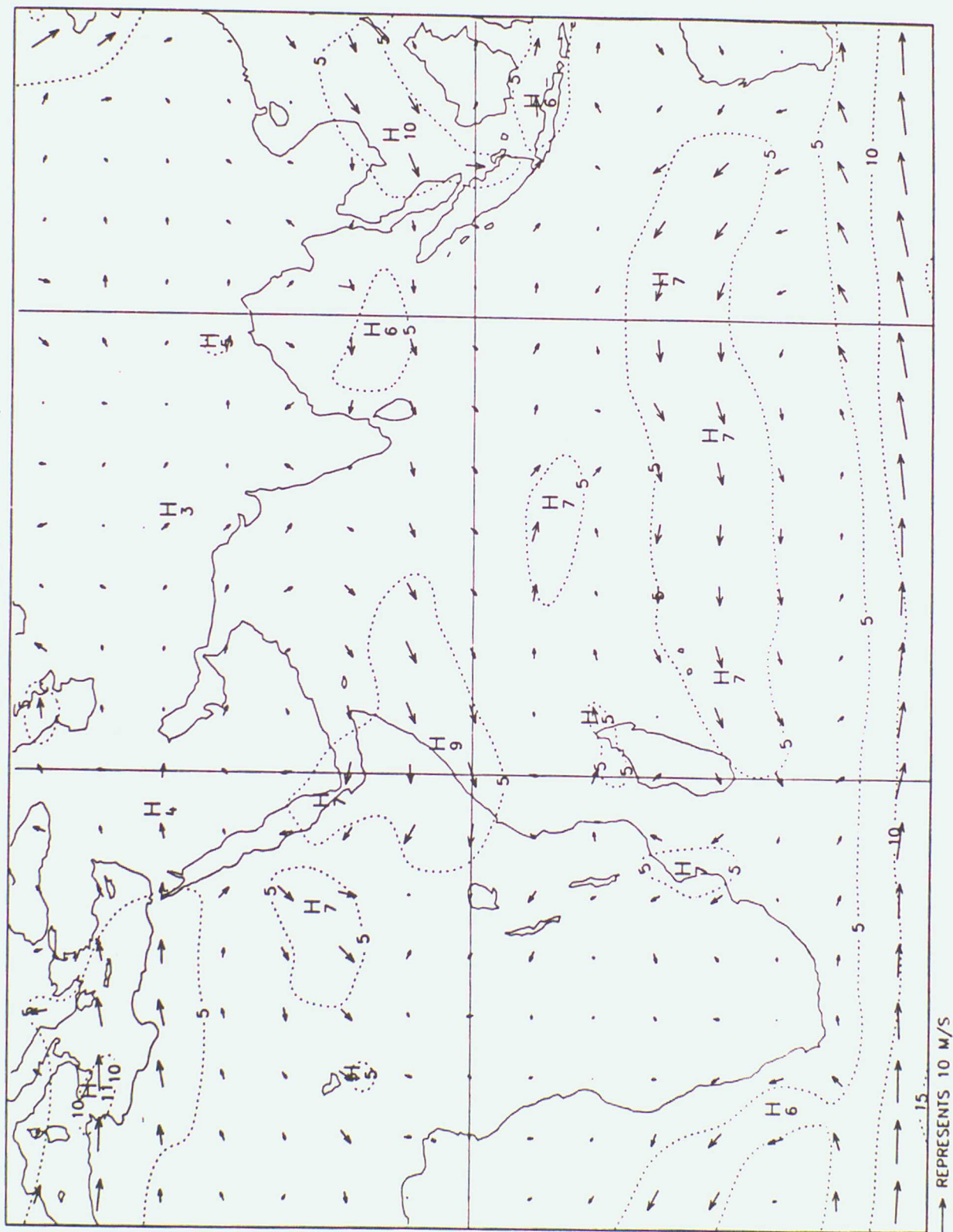
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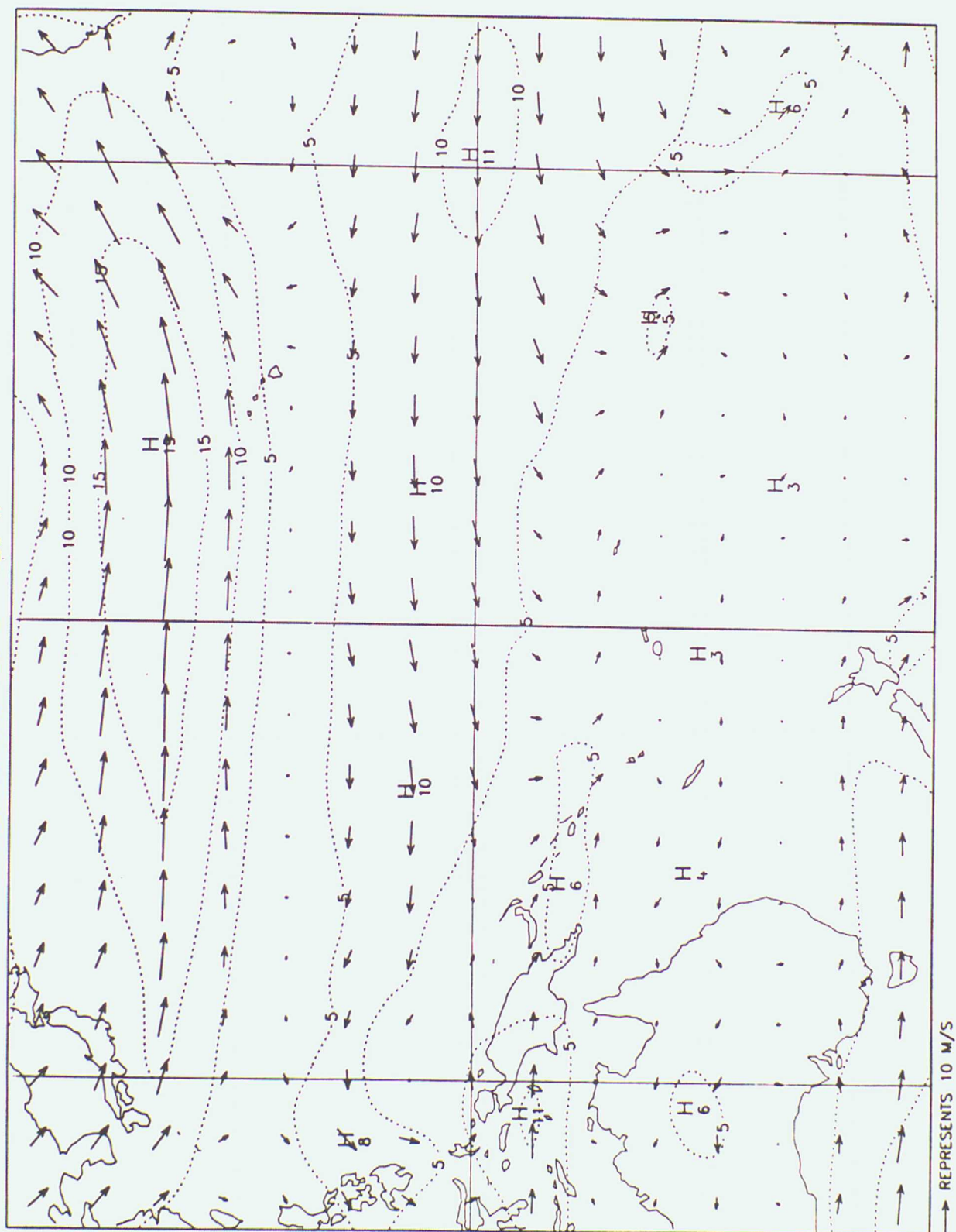
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AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
850 MBS. BETWEEN LONGS. 0 E - 120 E







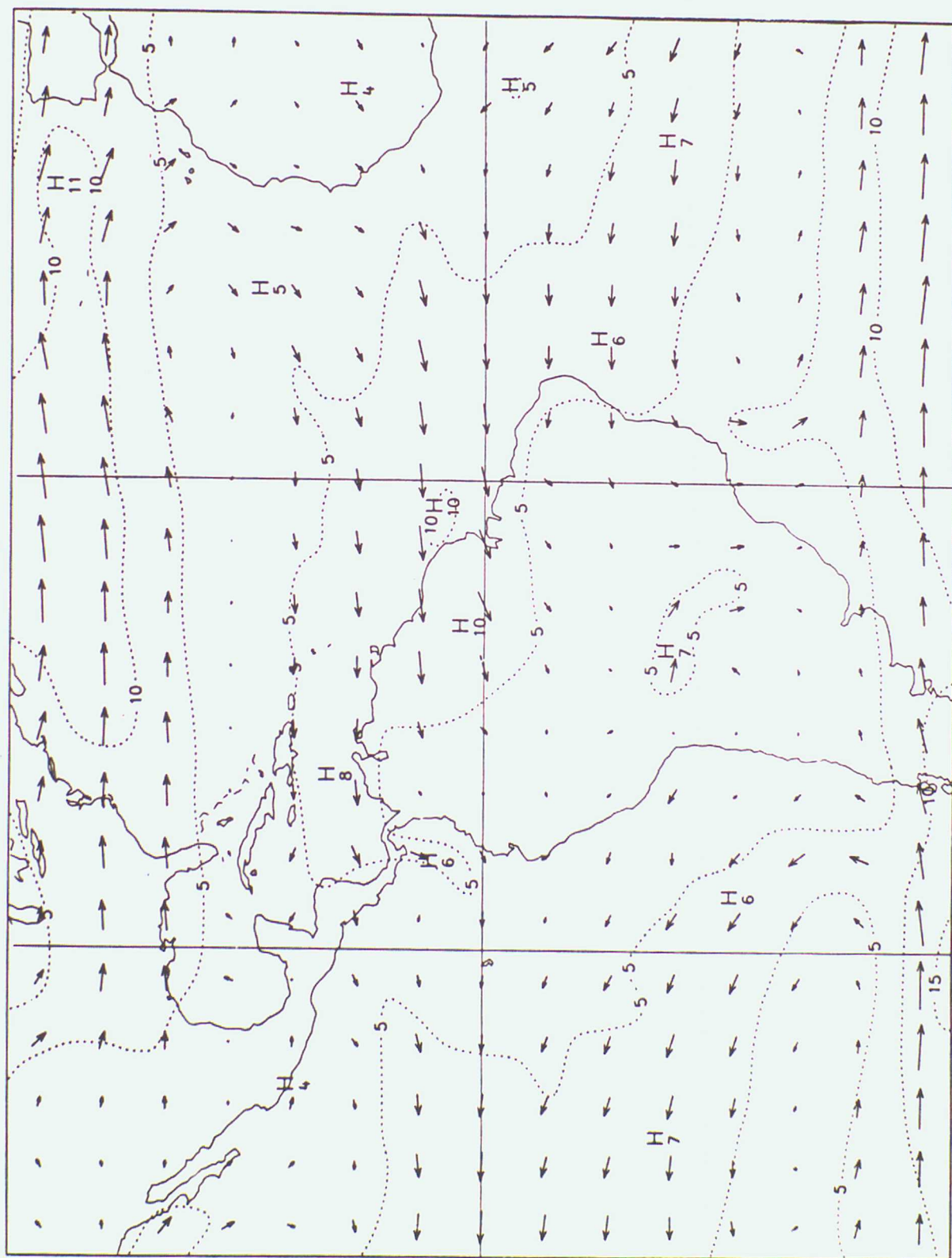
OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
 850 MBS.  
 BETWEEN LONGS. 120 E - 120 W







OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
 850 MBS.  
 BETWEEN LONGS. 120 W - 0 W

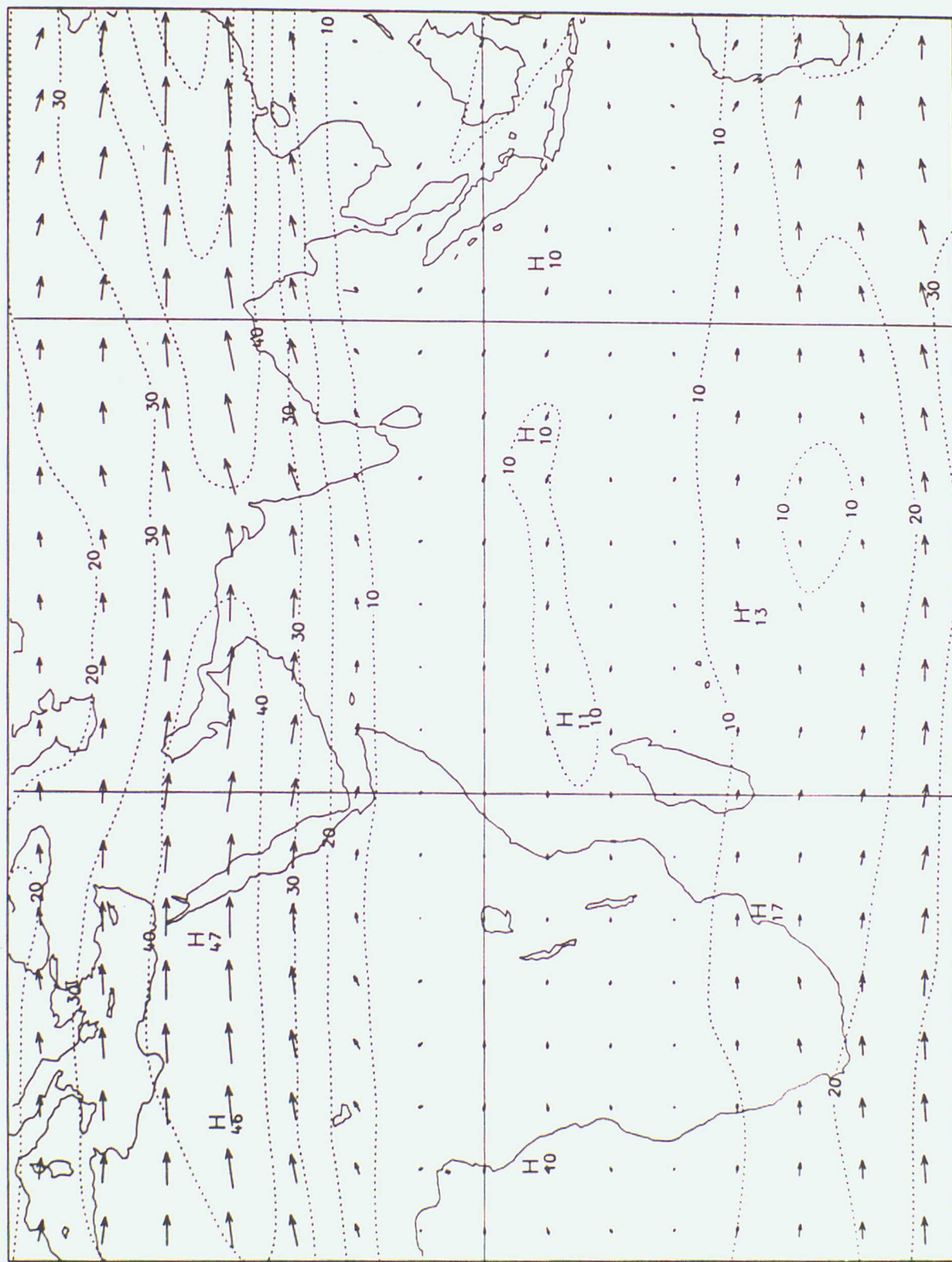


→ REPRESENTS 10 M/S





OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
 250 MBS. BETWEEN LONGS. 0 E - 120 E

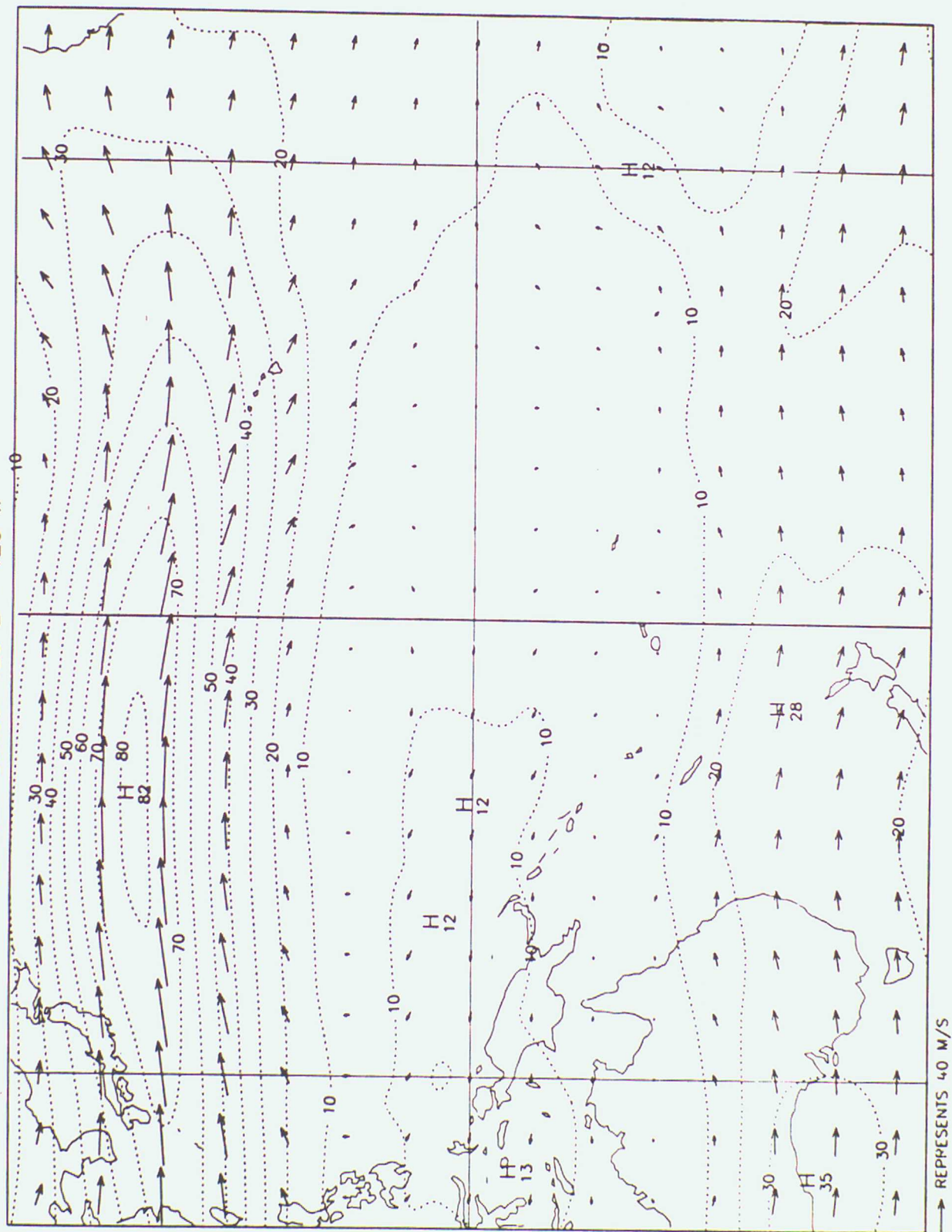


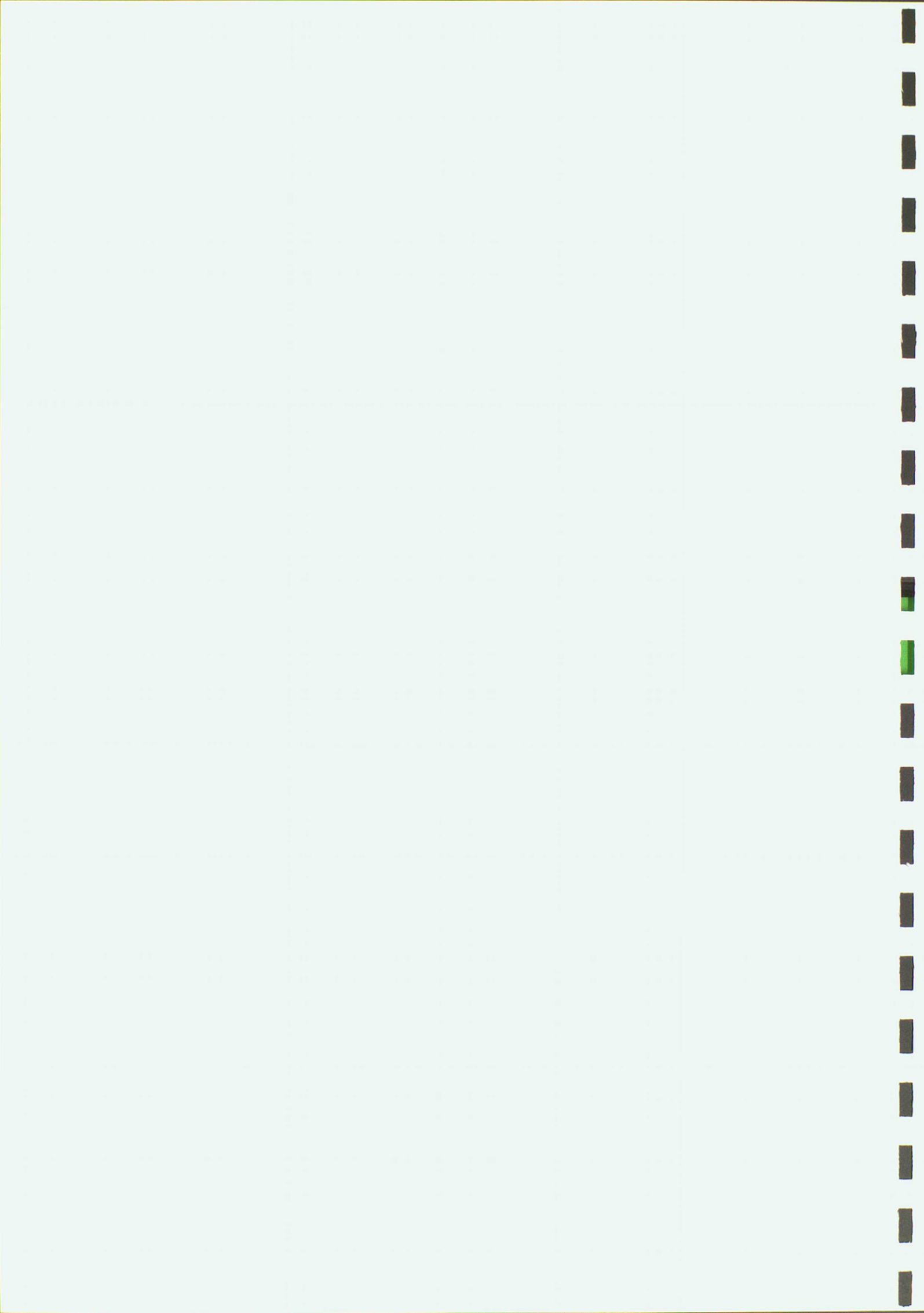
→ REPRESENTS 40 M/S





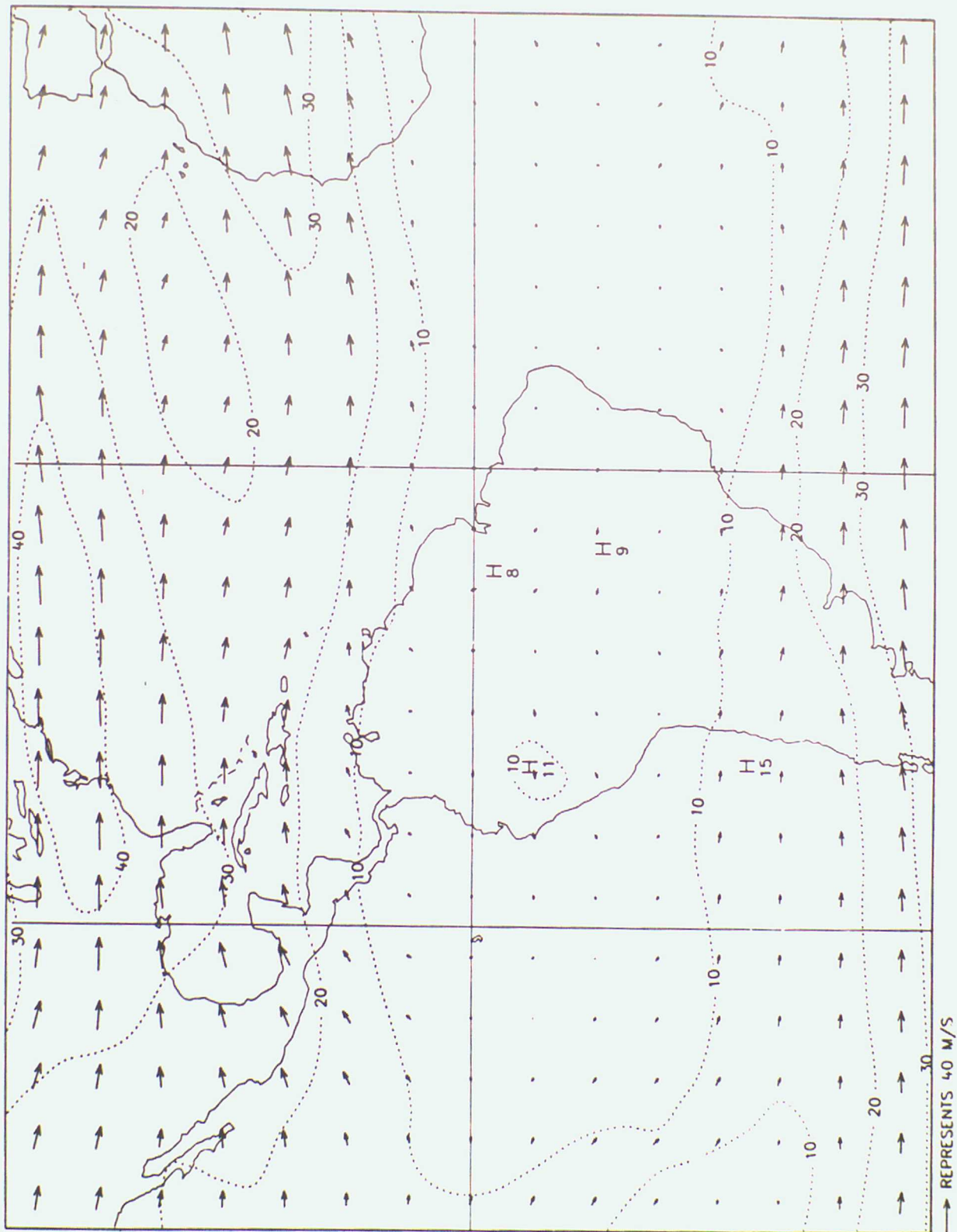
OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
250 MBS.  
BETWEEN LONGS. 120 E - 120 W







OPERATIONAL ARCHIVE MEANS. FEBRUARY 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/2/1986 DAY 32 TO 12Z ON 28/2/1986 DAY 59  
 250 MBS. BETWEEN LONGS. 120 W - 0 W







**DECEMBER/JANUARY/FEBRUARY**  
**1985/86**

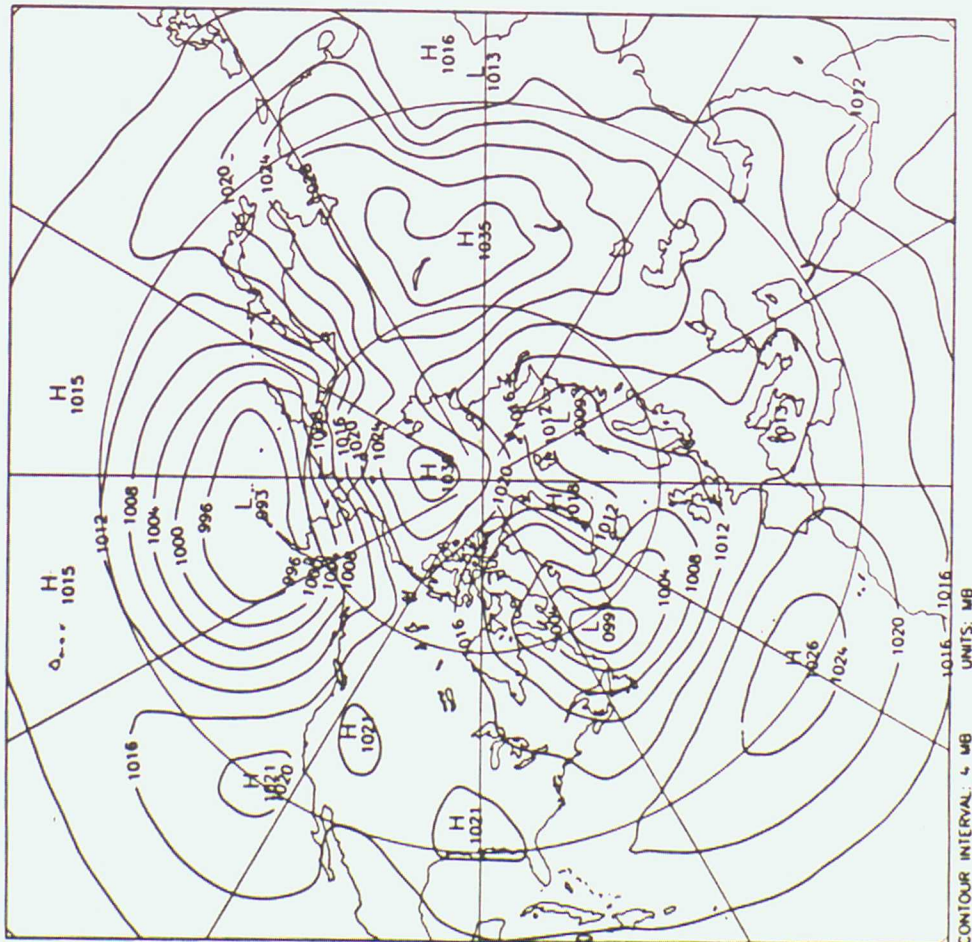






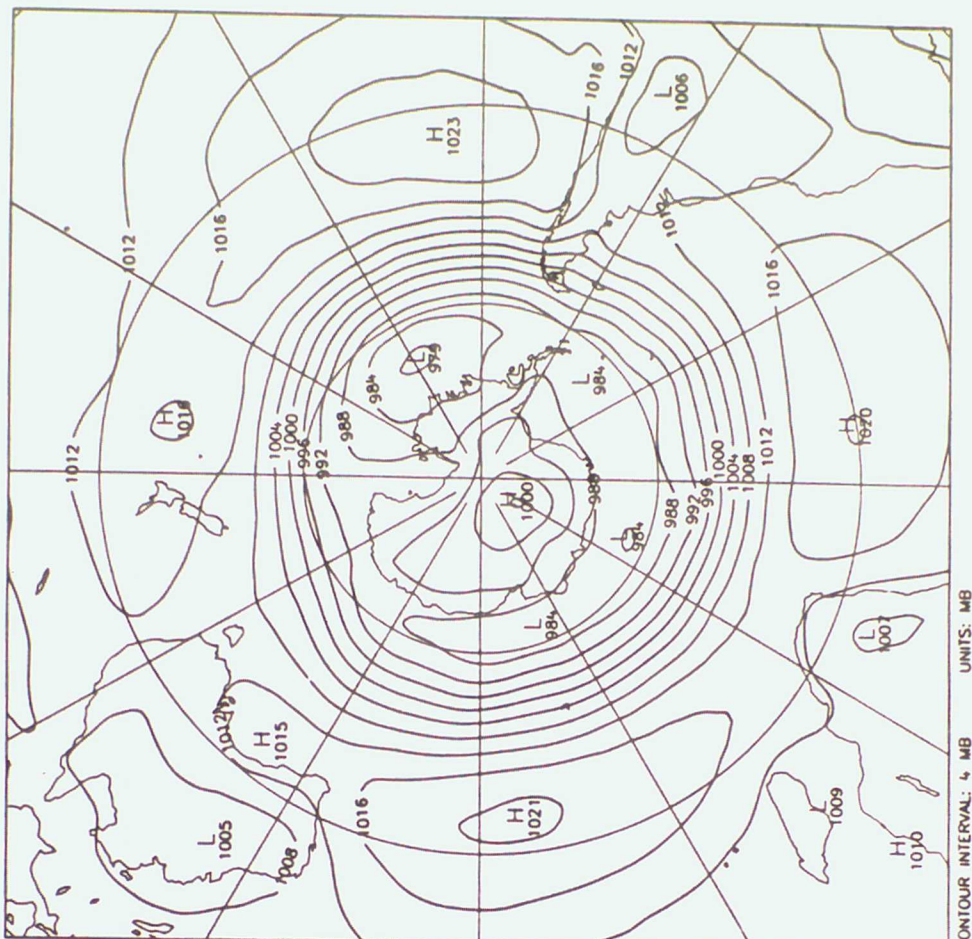
OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
PMSL

AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
LEVEL: SEA LEVEL



OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
PMSL

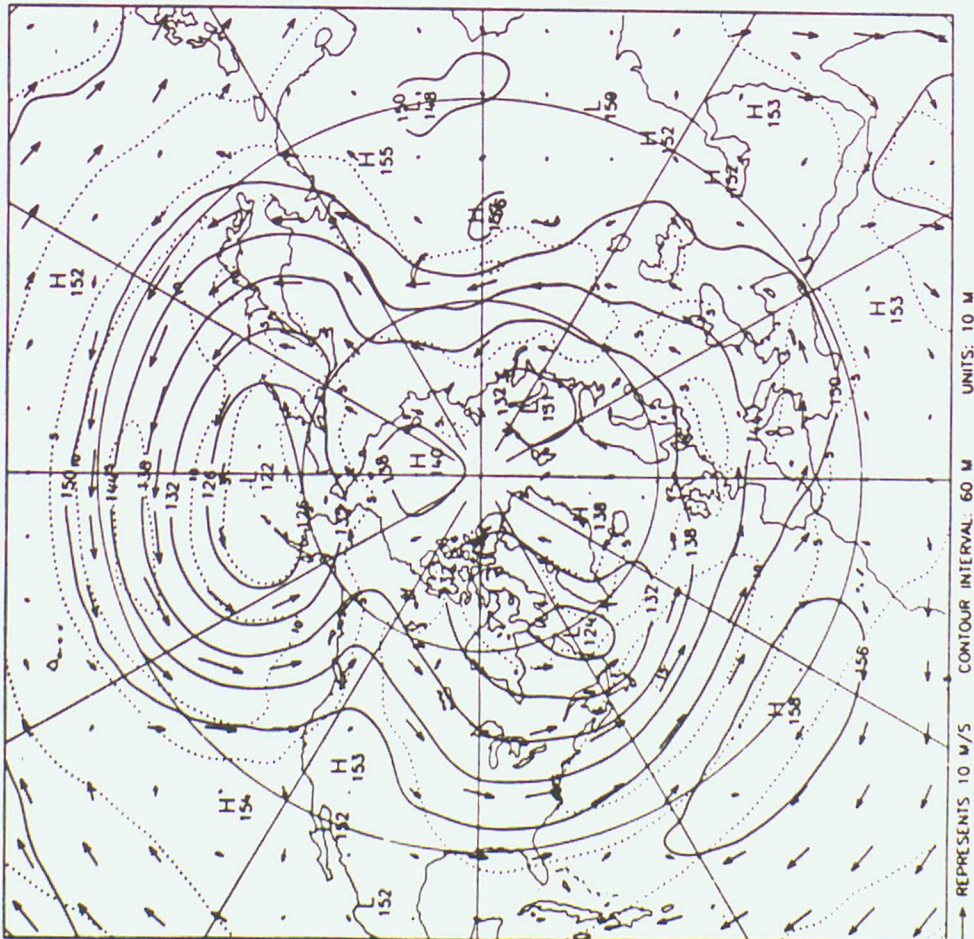
AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
LEVEL: SEA LEVEL





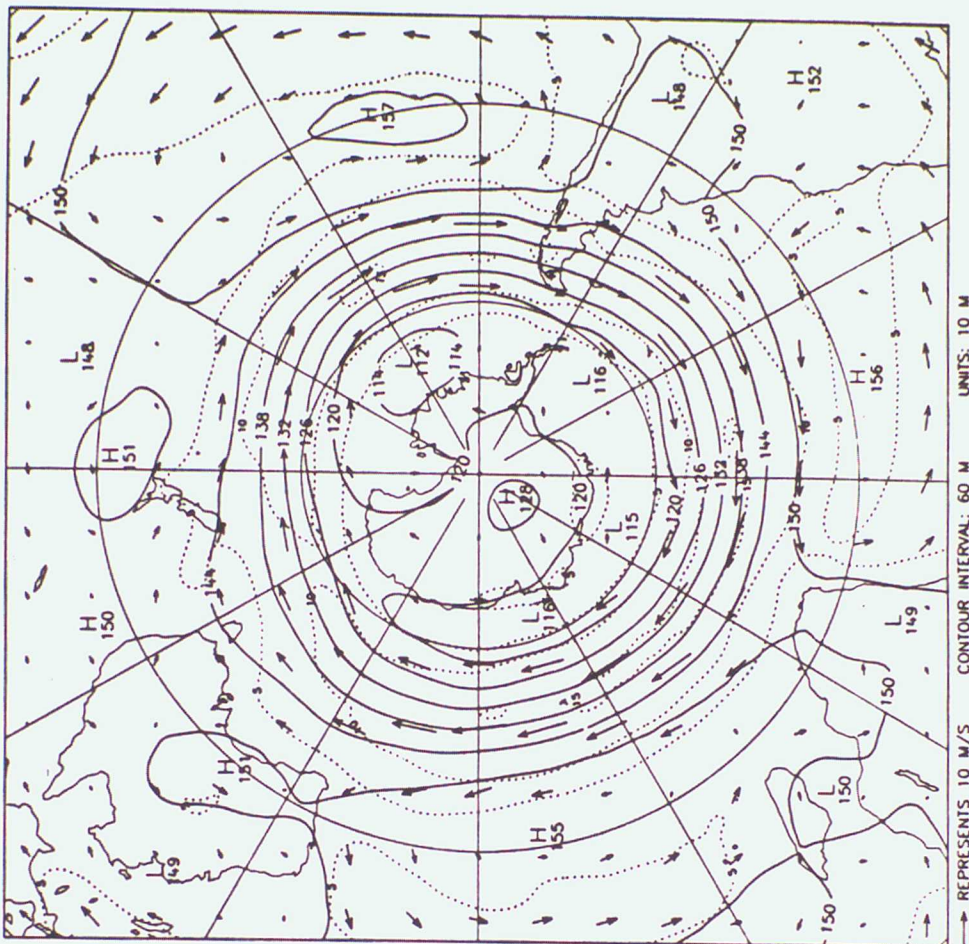


OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 LEVEL: 850 MB



→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M

OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 LEVEL: 850 MB

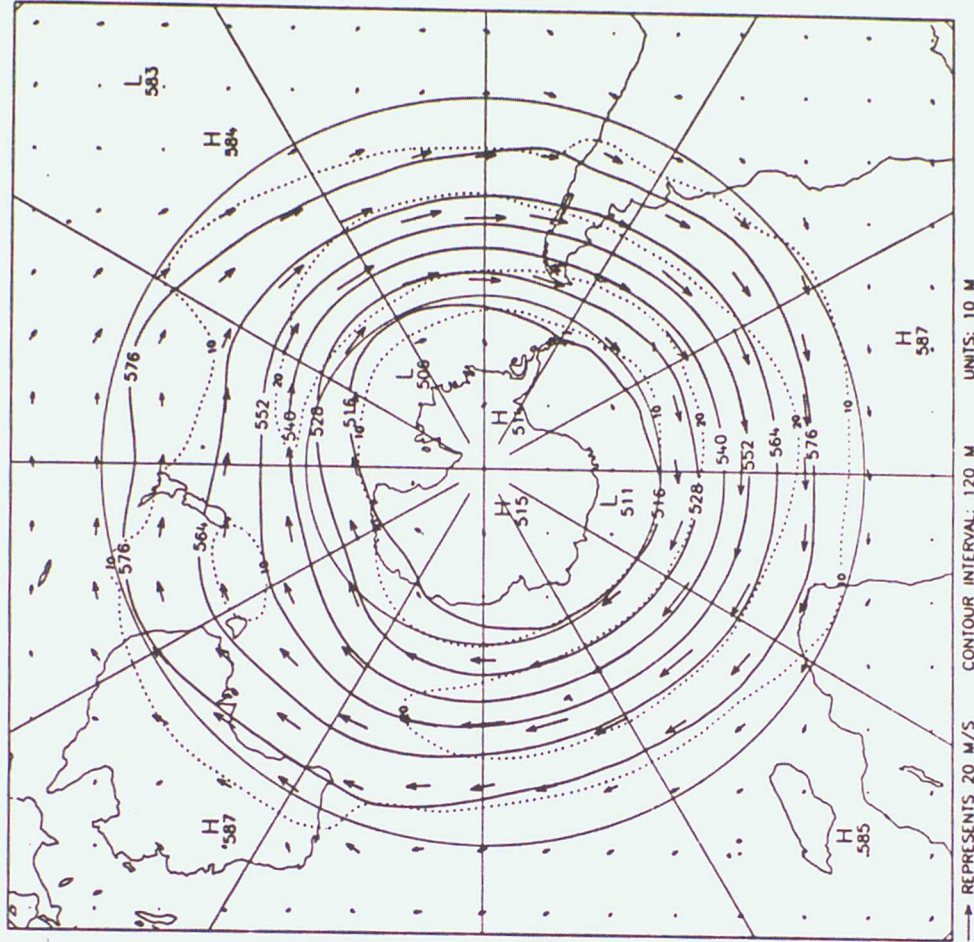
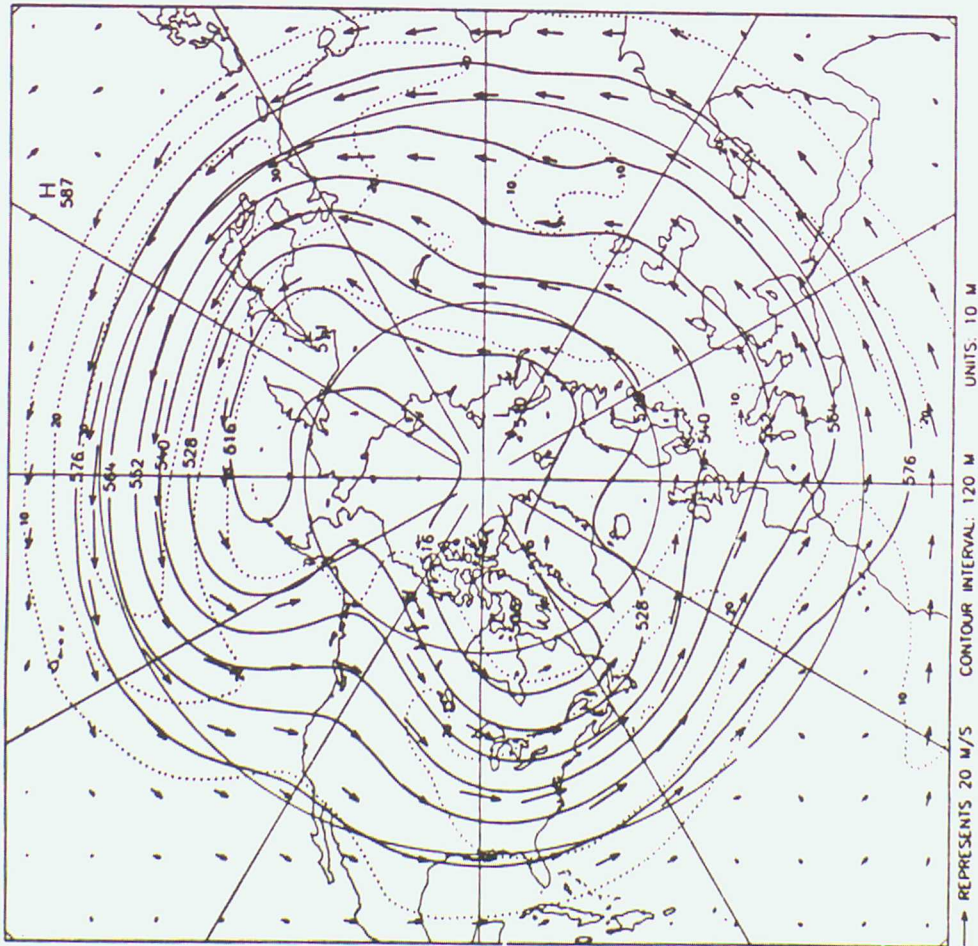


→ REPRESENTS 10 M/S CONTOUR INTERVAL: 60 M UNITS: 10 M





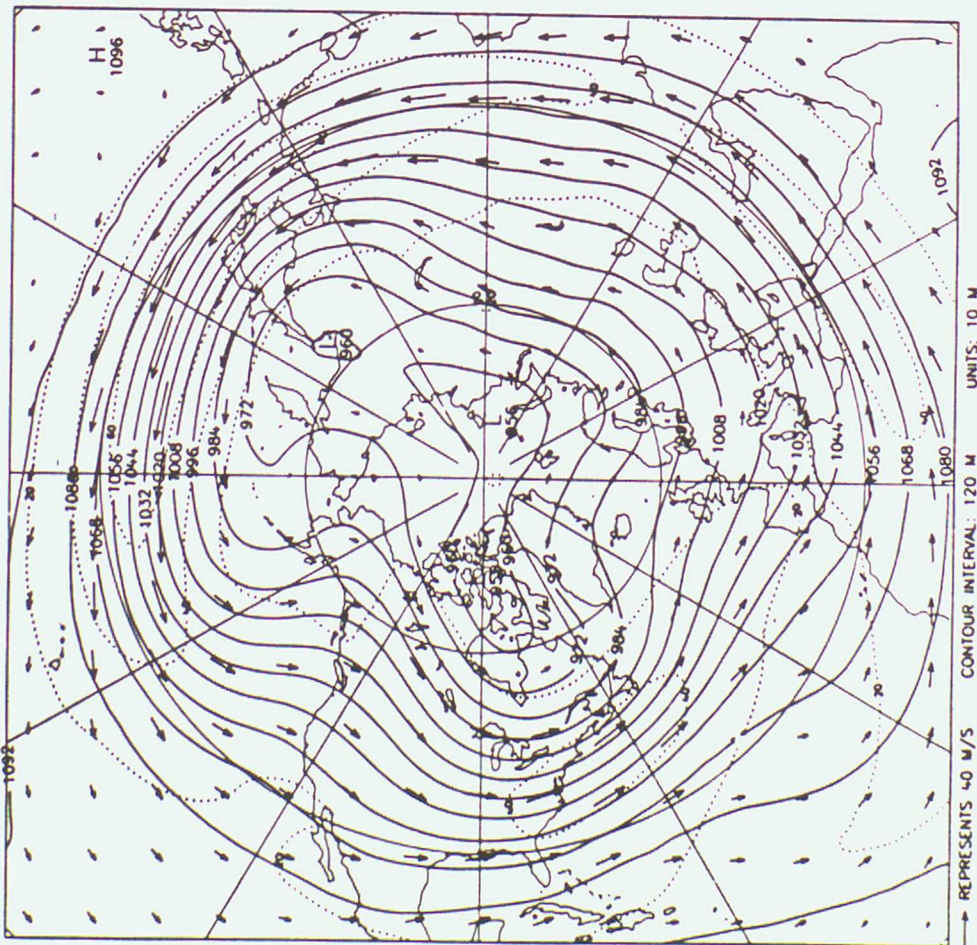
OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
HEIGHTS, WIND ARROWS AND ISOTACHS.  
AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
LEVEL: 500 MB



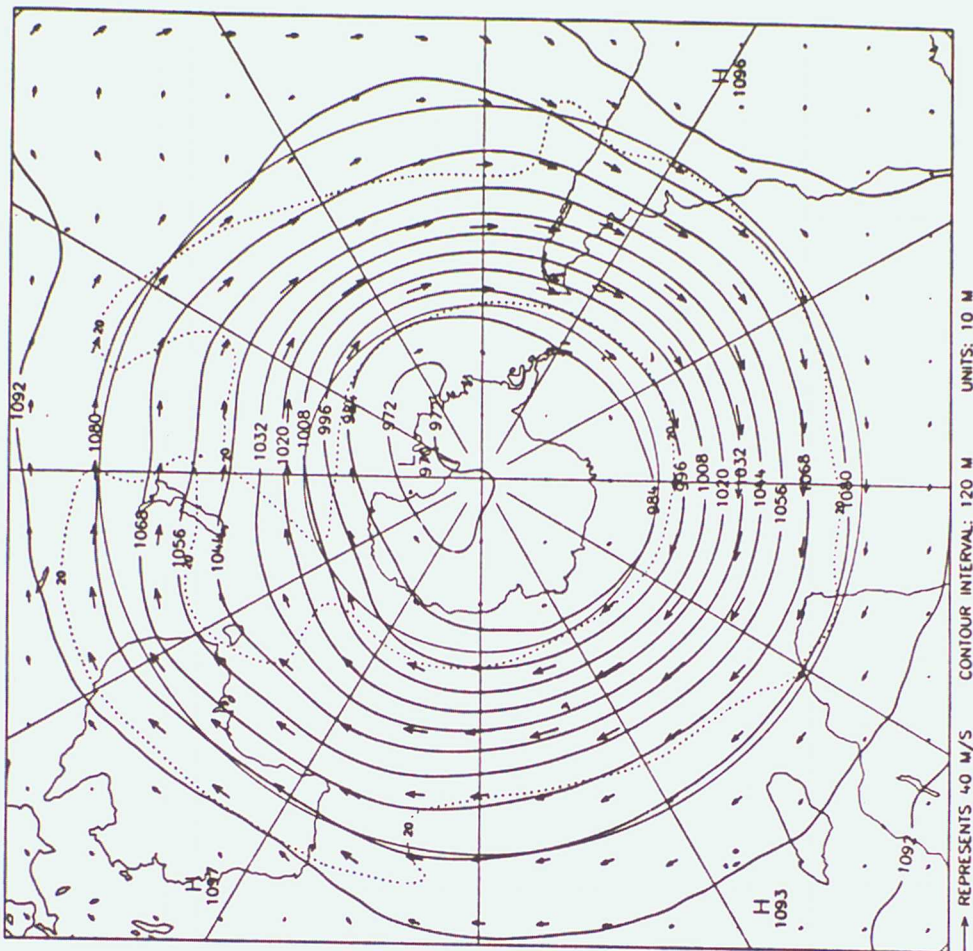


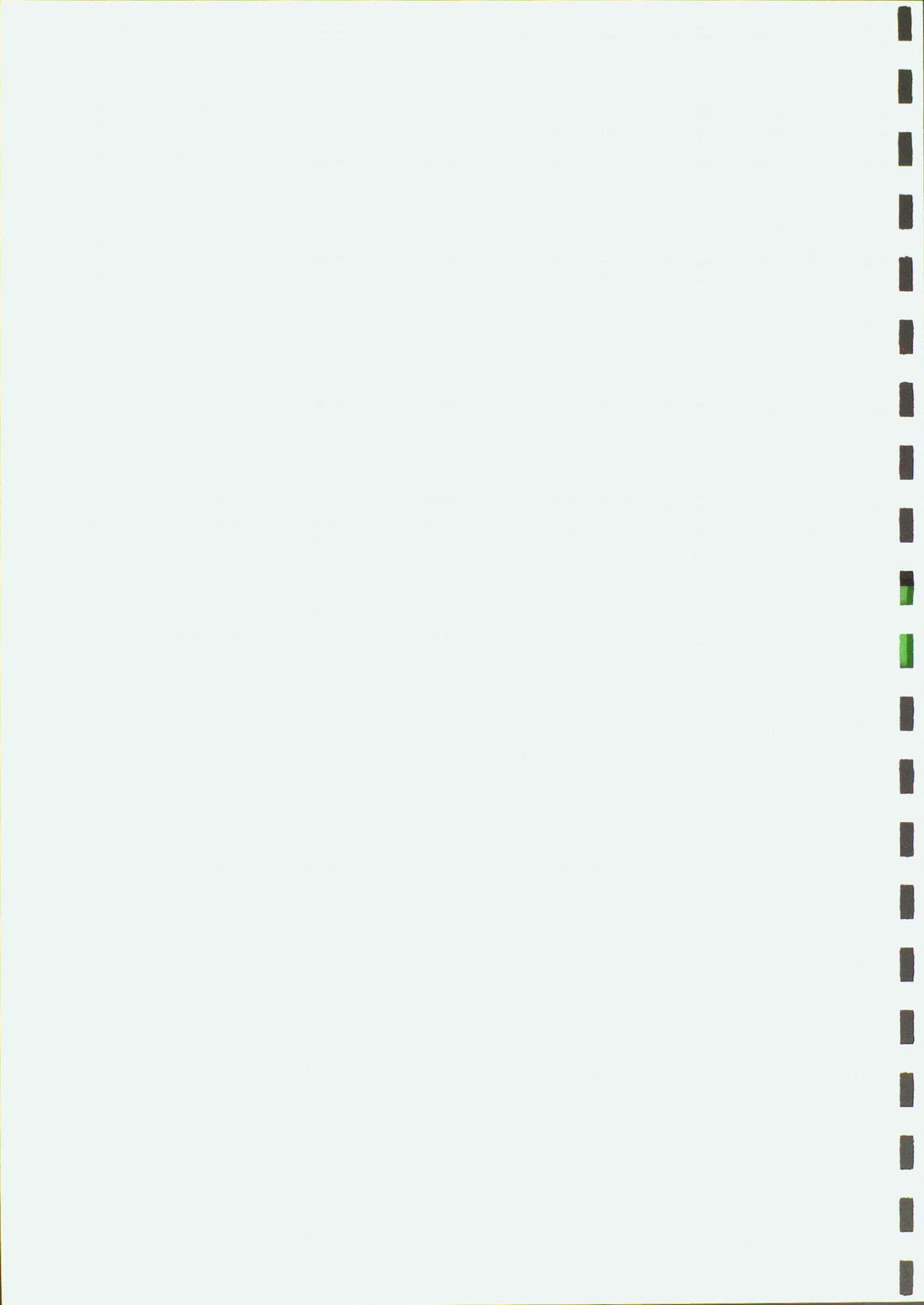


OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 LEVEL: 250 MB



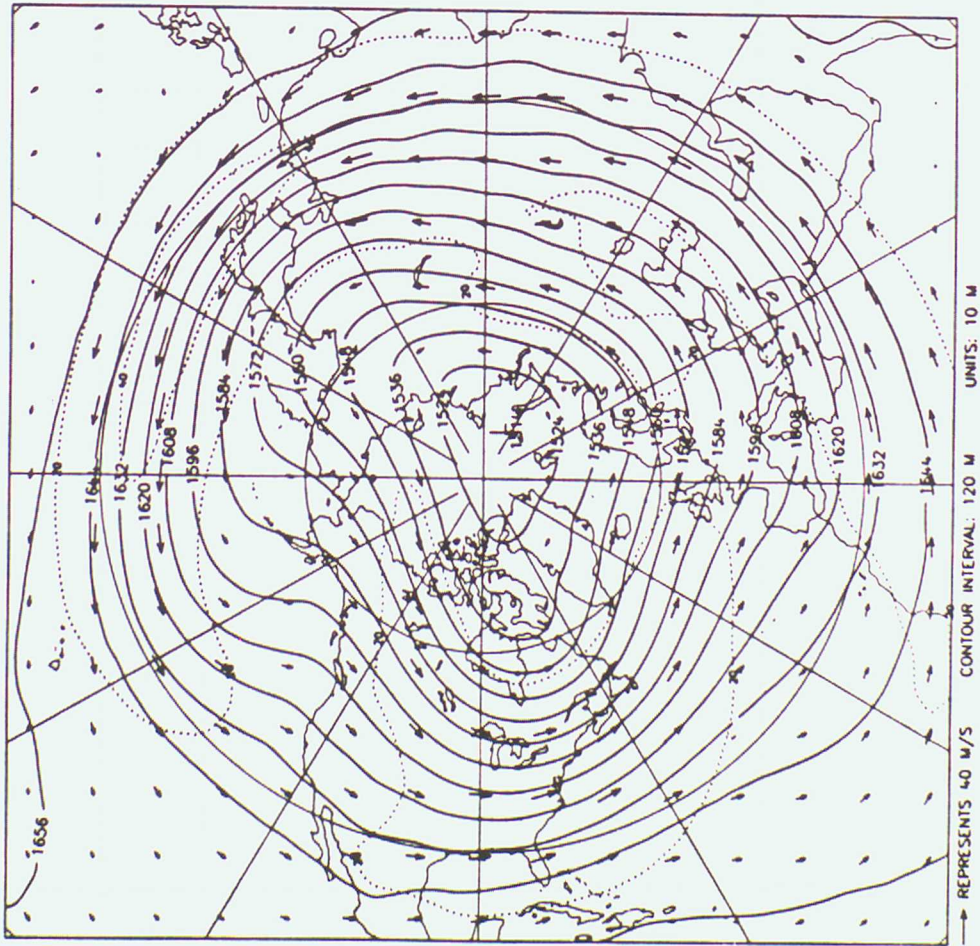
OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 LEVEL: 250 MB



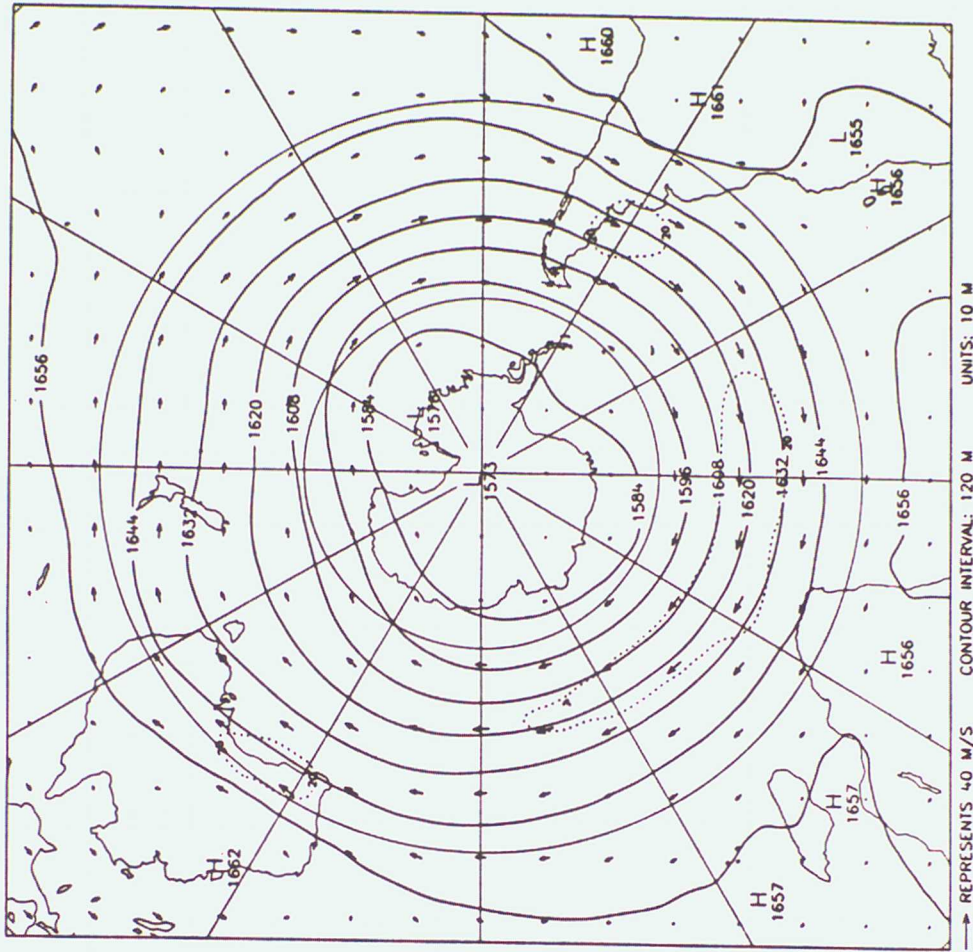




OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 LEVEL: 100 MB



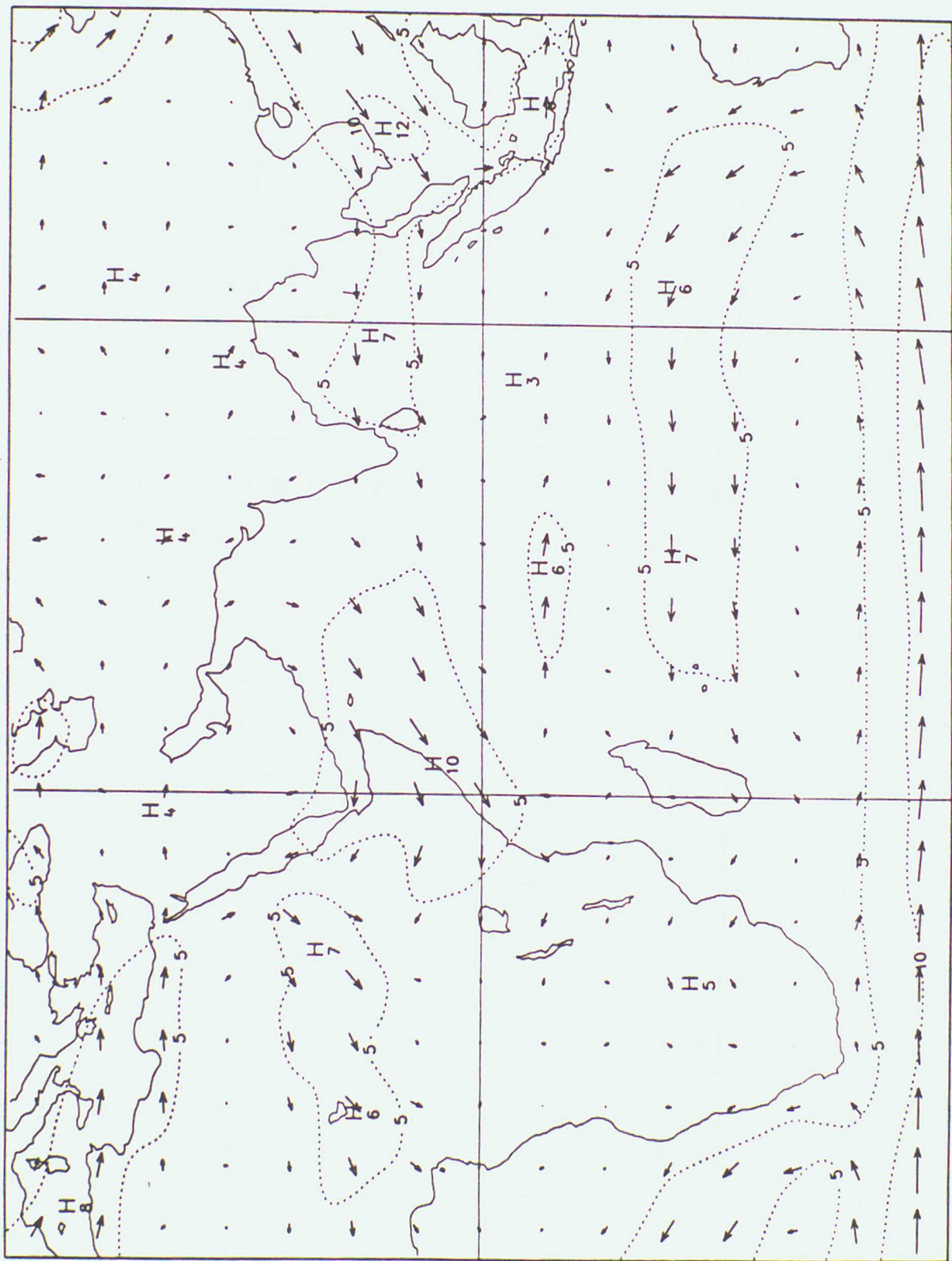
OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 LEVEL: 100 MB







OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 850 MBS. BETWEEN LONGS. 0 E - 120 E

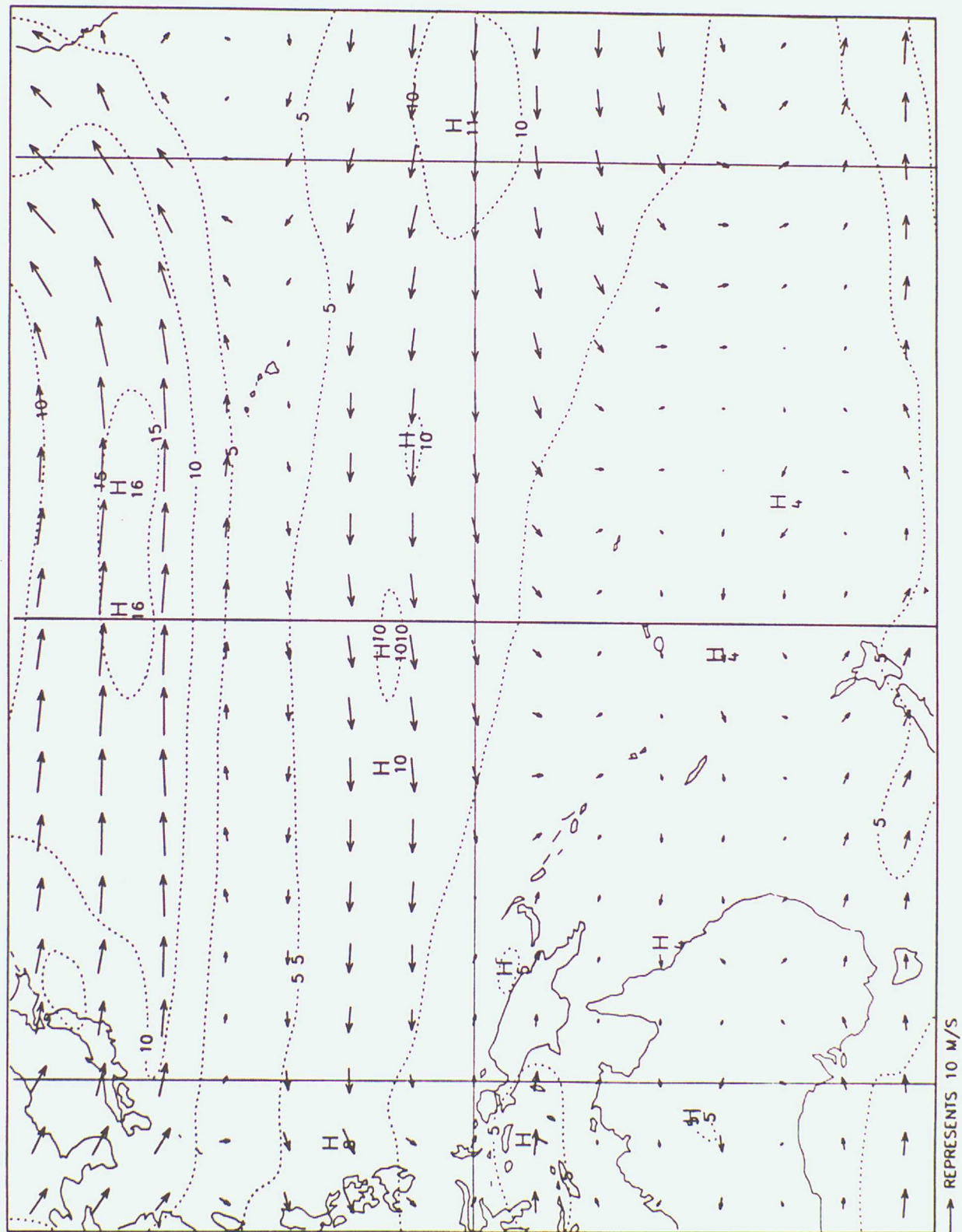


→ REPRESENTS 10 M/S





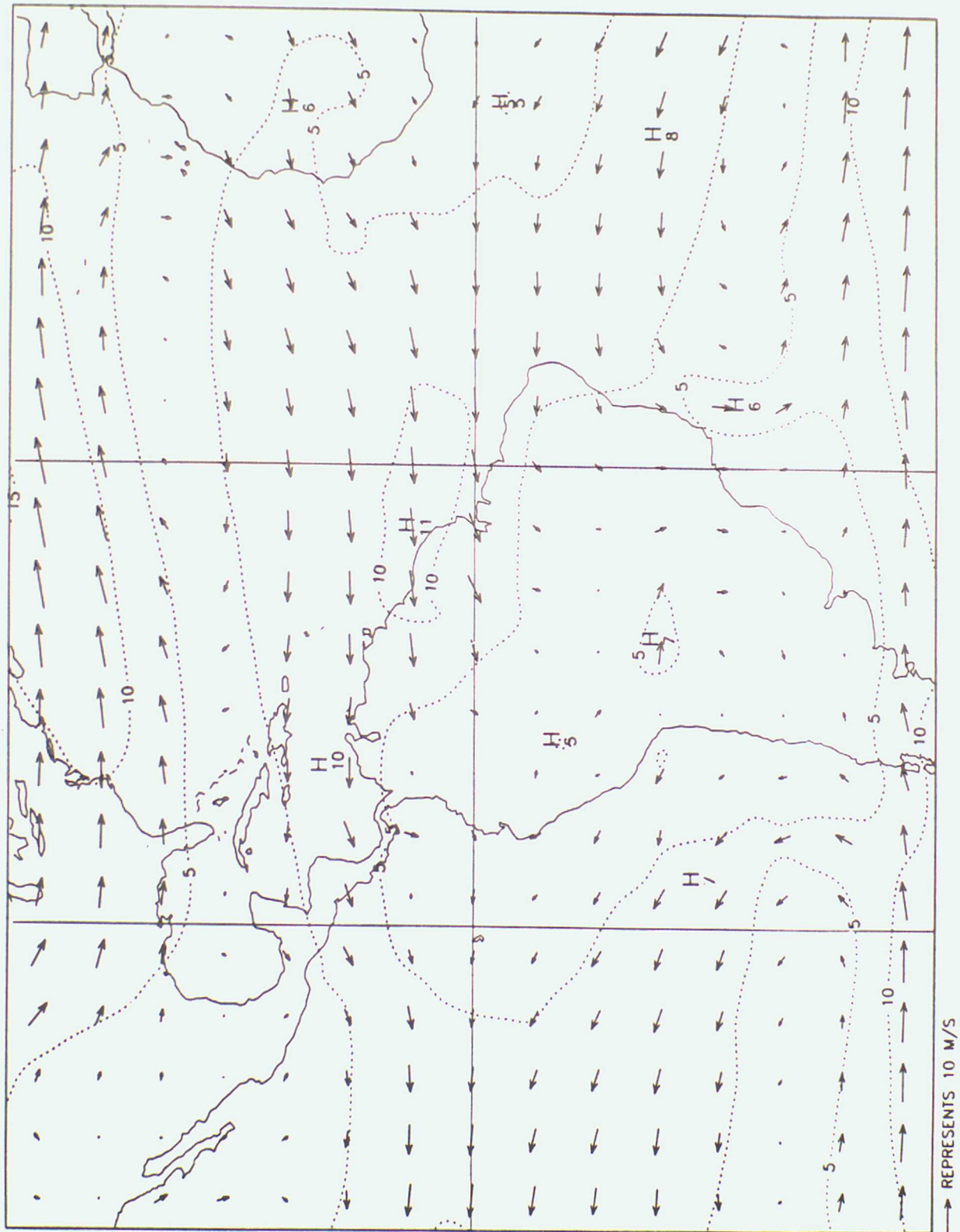
OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
850 MBS.  
BETWEEN LONGS. 120 E - 120 W







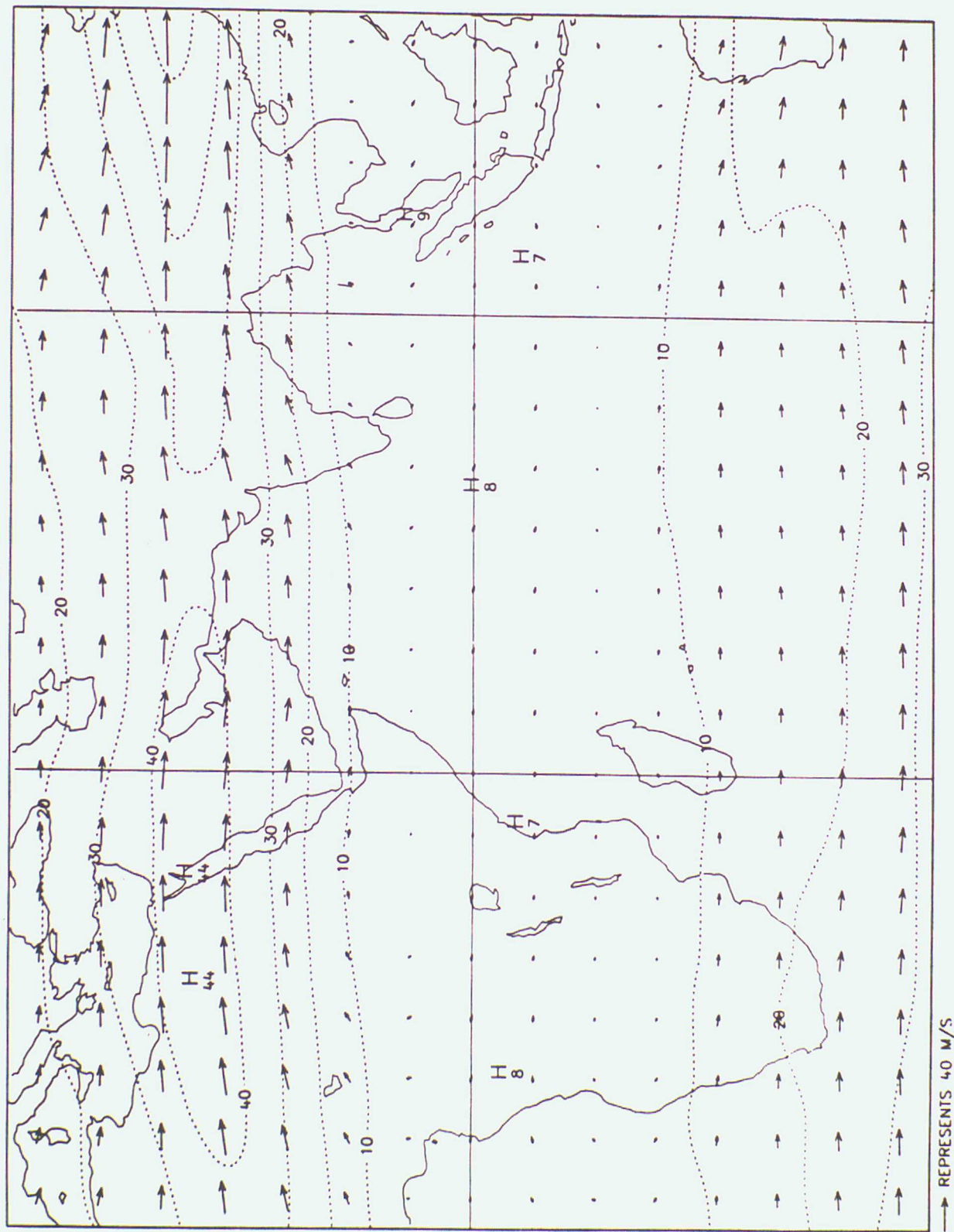
OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 850 MBS.  
 BETWEEN LONGS. 120 W - 0 W







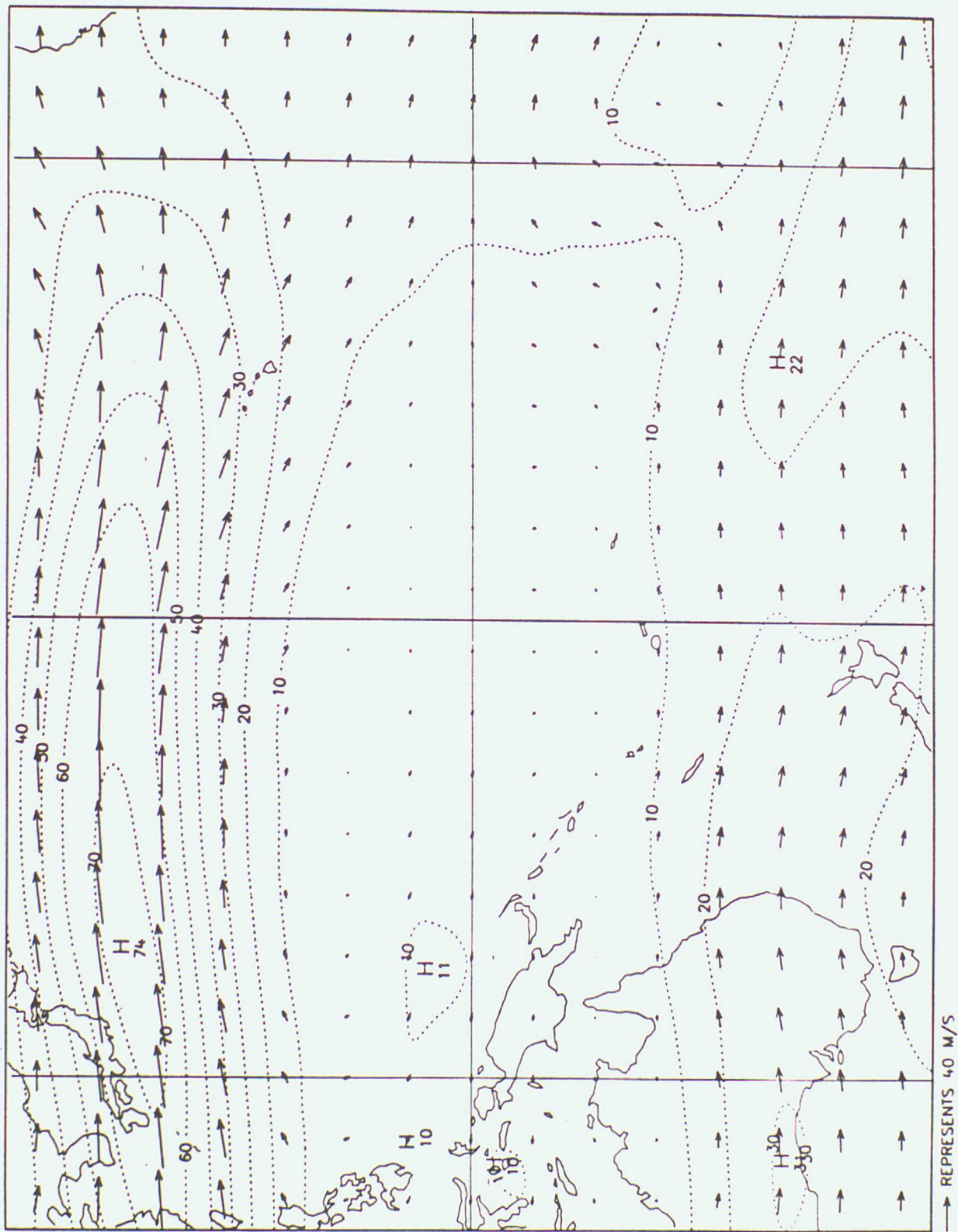
OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
250 MBS. BETWEEN LONGS. 0 E - 120 E







OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
 250 MBS.  
 BETWEEN LONGS. 120 E - 120 W



→ REPRESENTS 40 M/5





OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1986  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/12/1985 DAY 335 TO 12Z ON 28/2/1986 DAY 59  
250 MBS.  
BETWEEN LONGS. 120 W - 0 W

