

# Monthly and Seasonal Mean Analyses

December, January, February  
1983/84

ORGS UKMO M

National Meteorological Library  
FitzRoy Road, Exeter, Devon. EX1 3PB



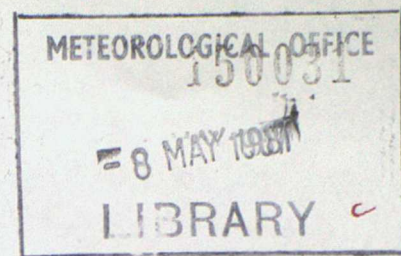




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# Monthly and Seasonal Mean Analyses



**December, January, February  
1983/84**

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

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

March 1987

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  $0^{\circ}$ – $120^{\circ}$  E,  $120^{\circ}$  E– $120^{\circ}$  W and  $120^{\circ}$  W– $0^{\circ}$ . 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  $4.5^{\circ}$  by  $4.5^{\circ}$ . Since the model analyses are written up on a  $1.5^{\circ}$  by  $1.875^{\circ}$  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,
Southerly wind component	(m/s)						
Height	(dam)						
Temperature	(K)						
			250,	200,	150,	100,	70,
							50
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**  
**1983**

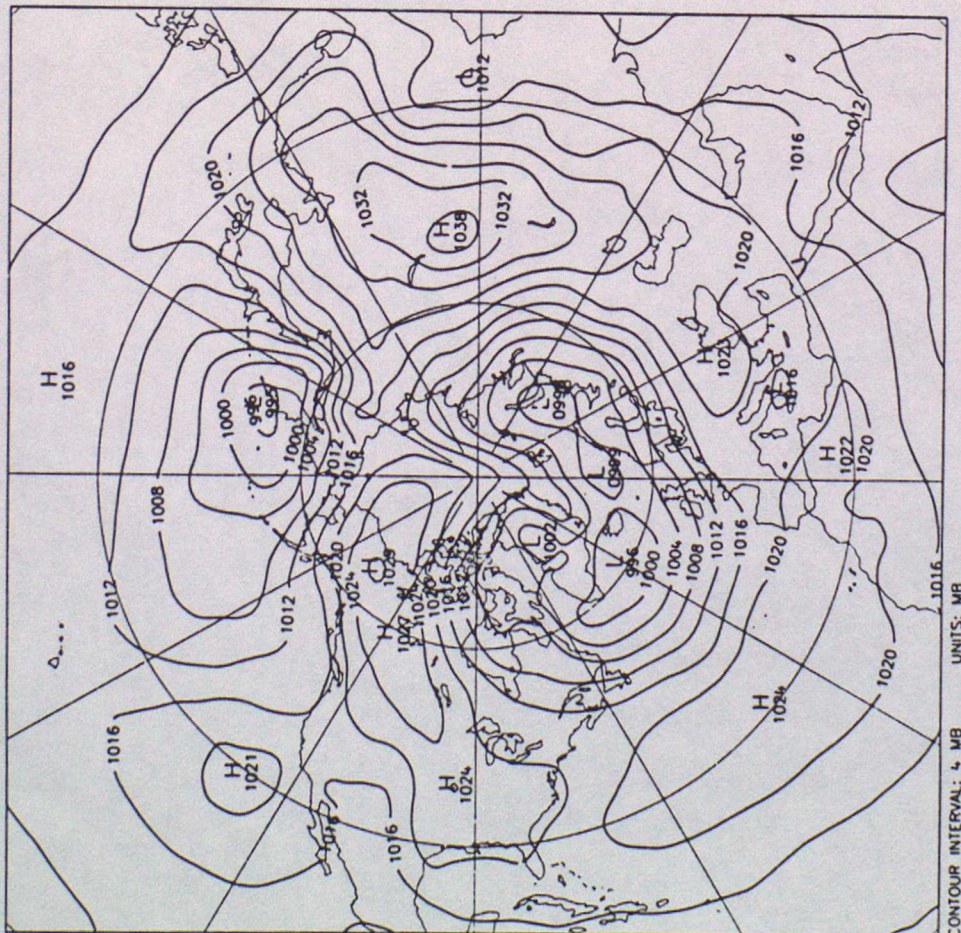






OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
PMSL

AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
LEVEL: SEA LEVEL

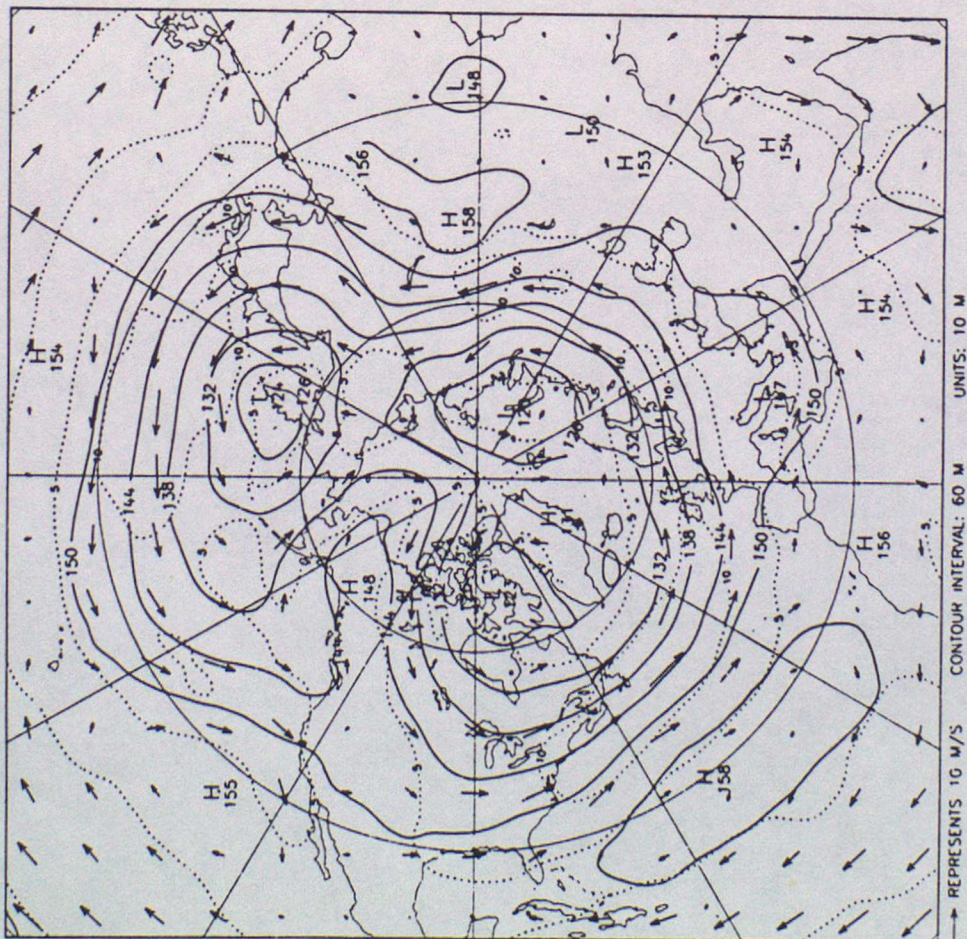




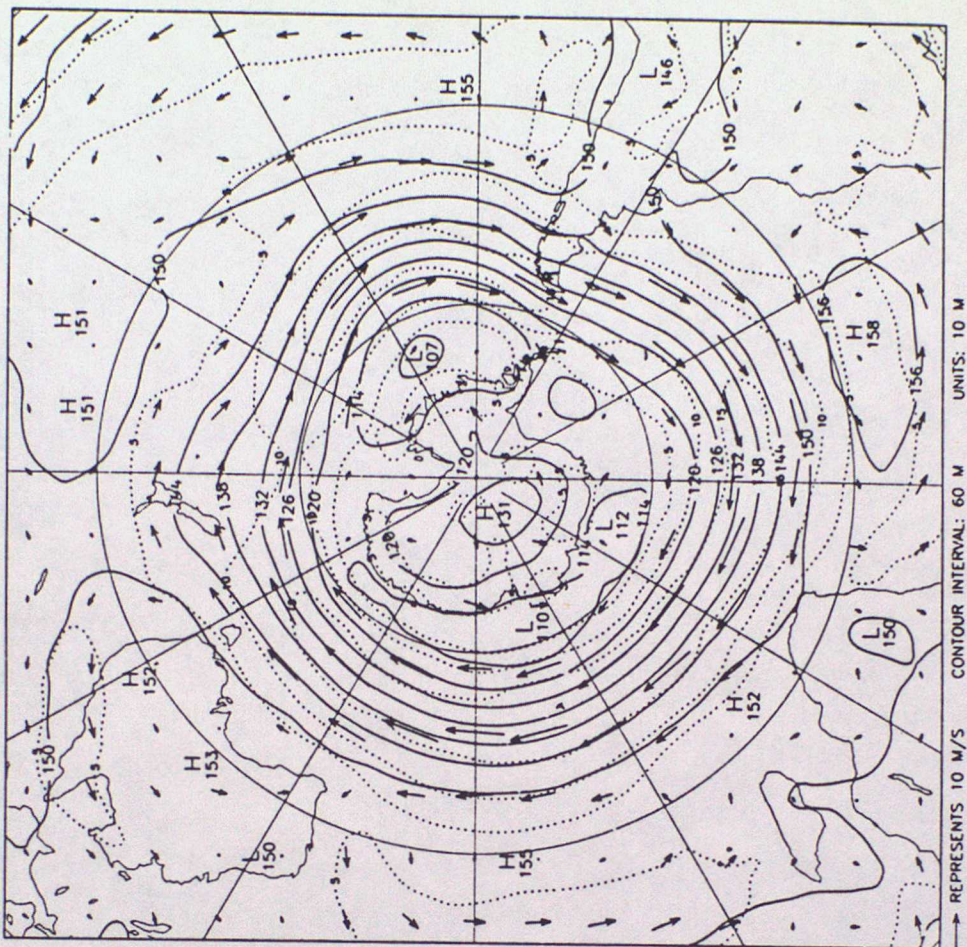




OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
 LEVEL: 850 MB



OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
 LEVEL: 850 MB

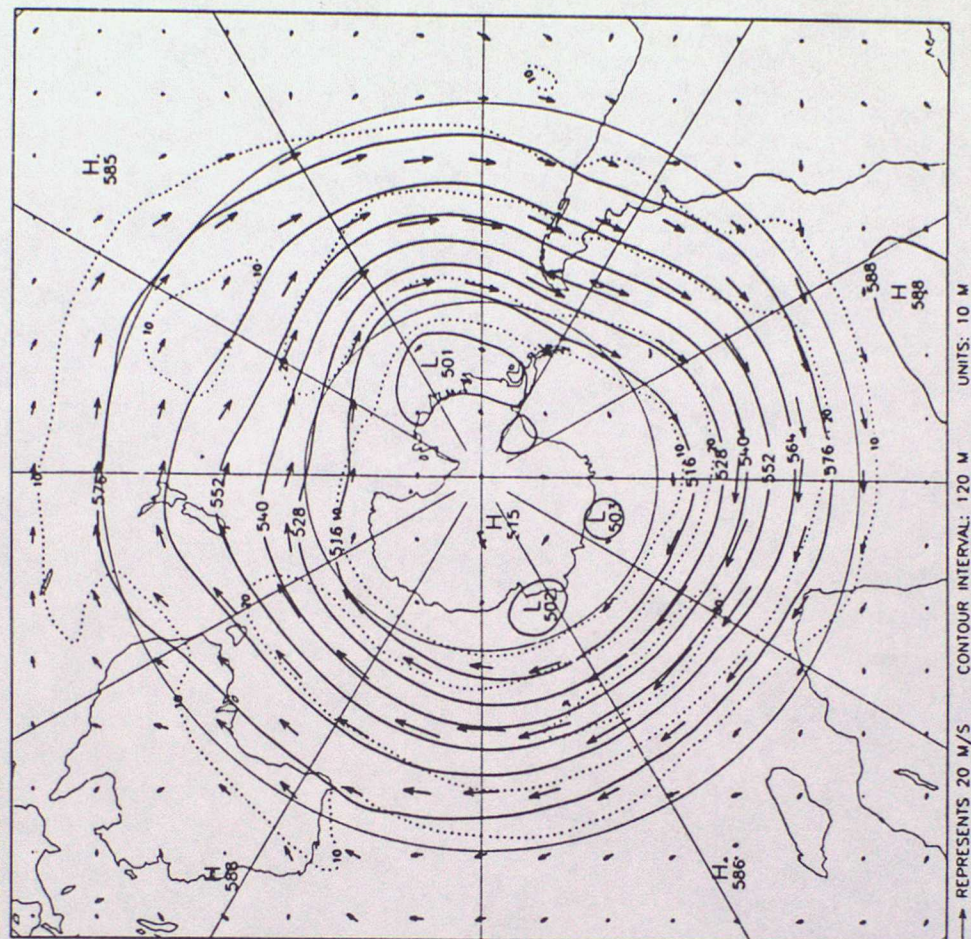
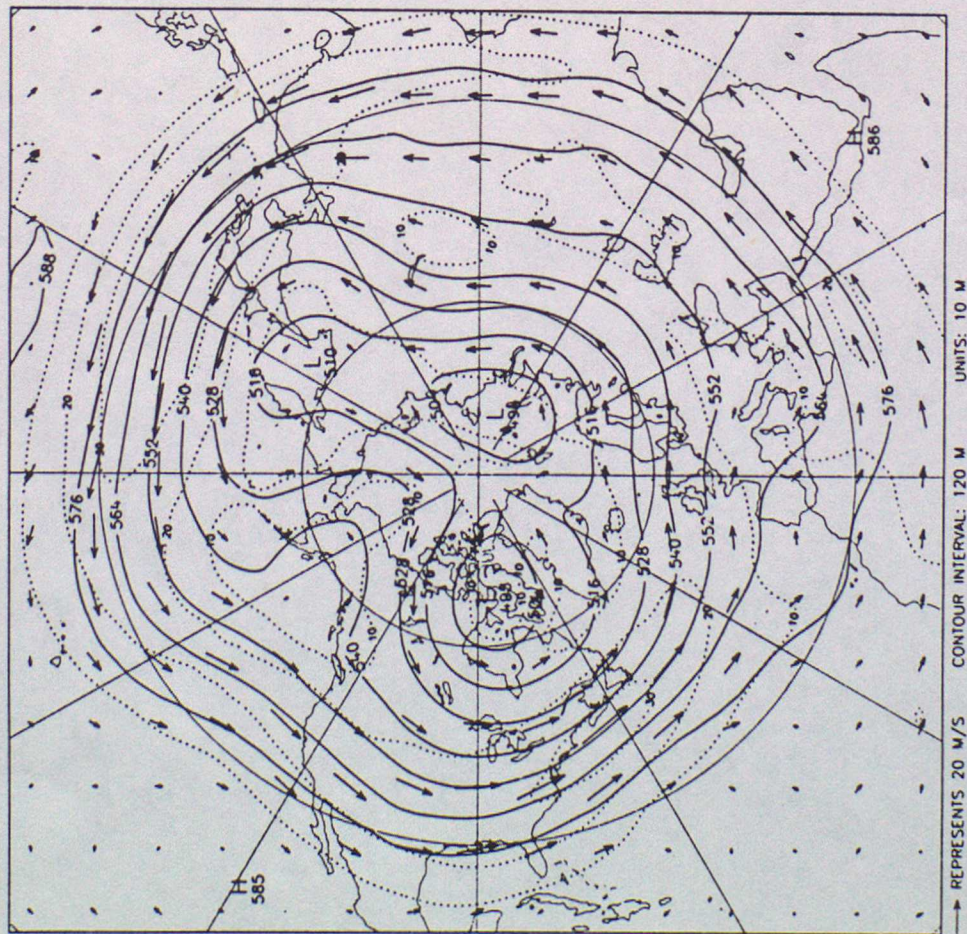








OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
HEIGHTS, WIND ARROWS AND ISOTACHS.  
AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
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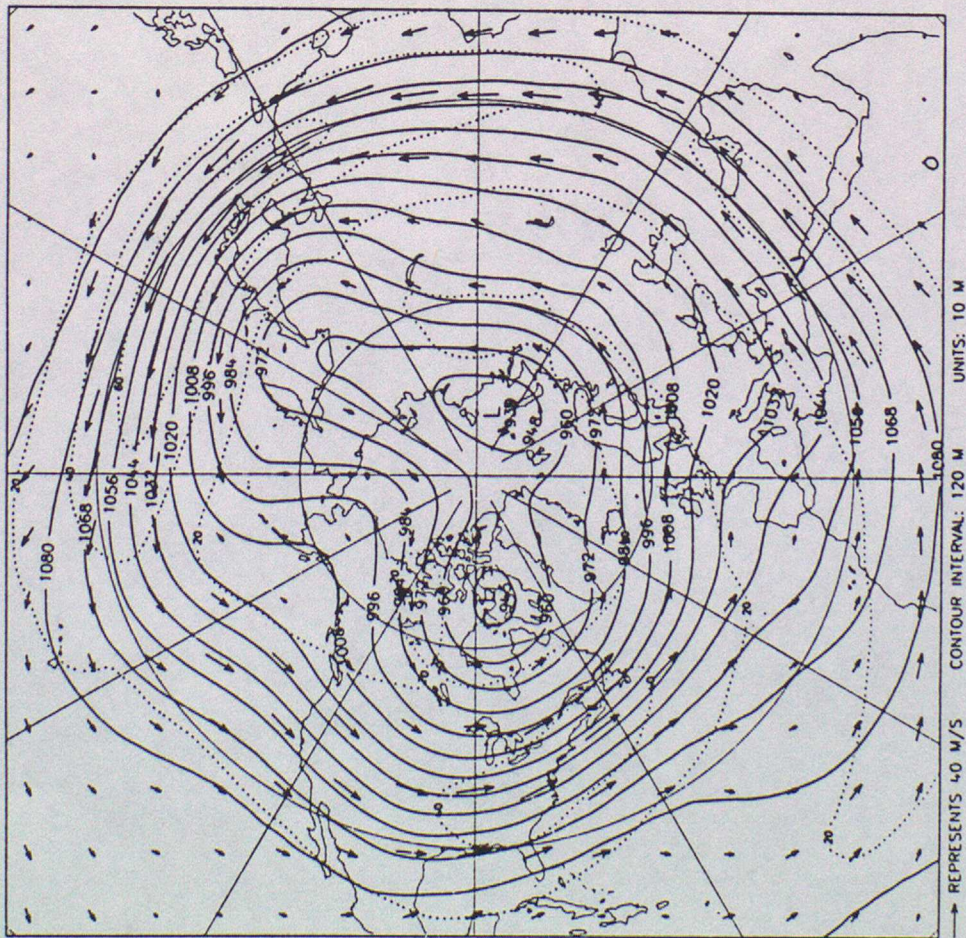




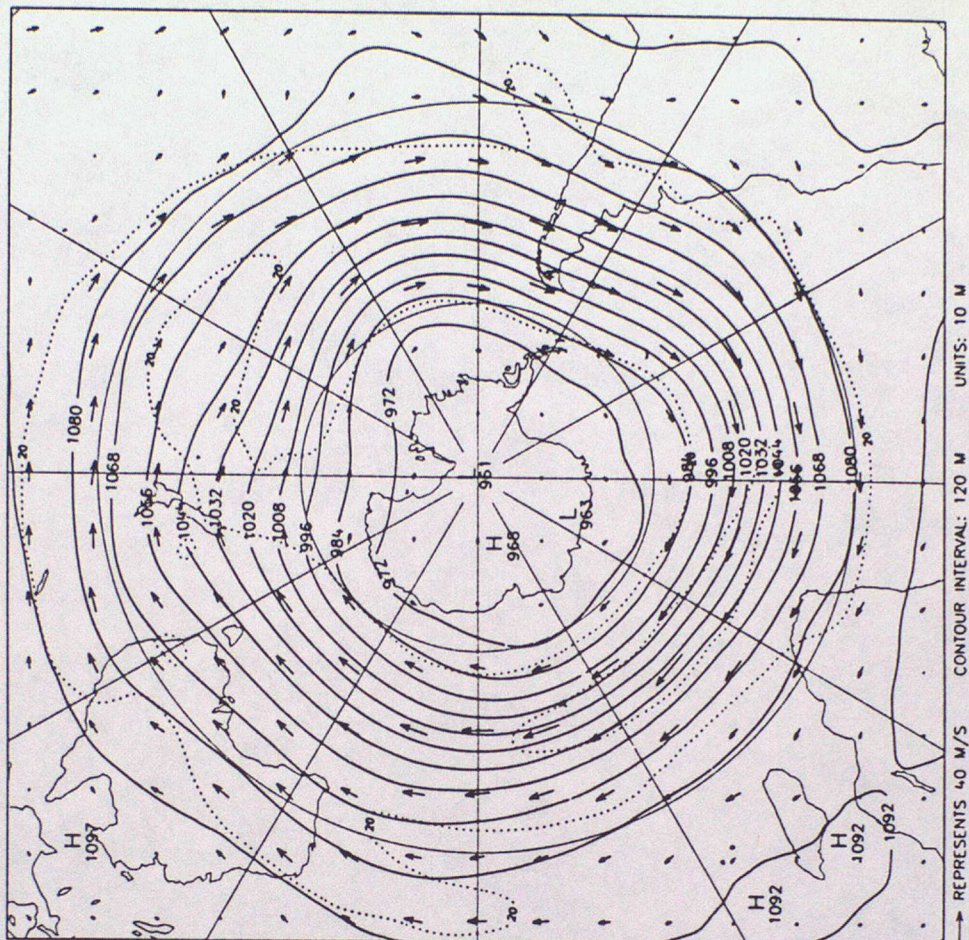




OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
 LEVEL: 250 MB



OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
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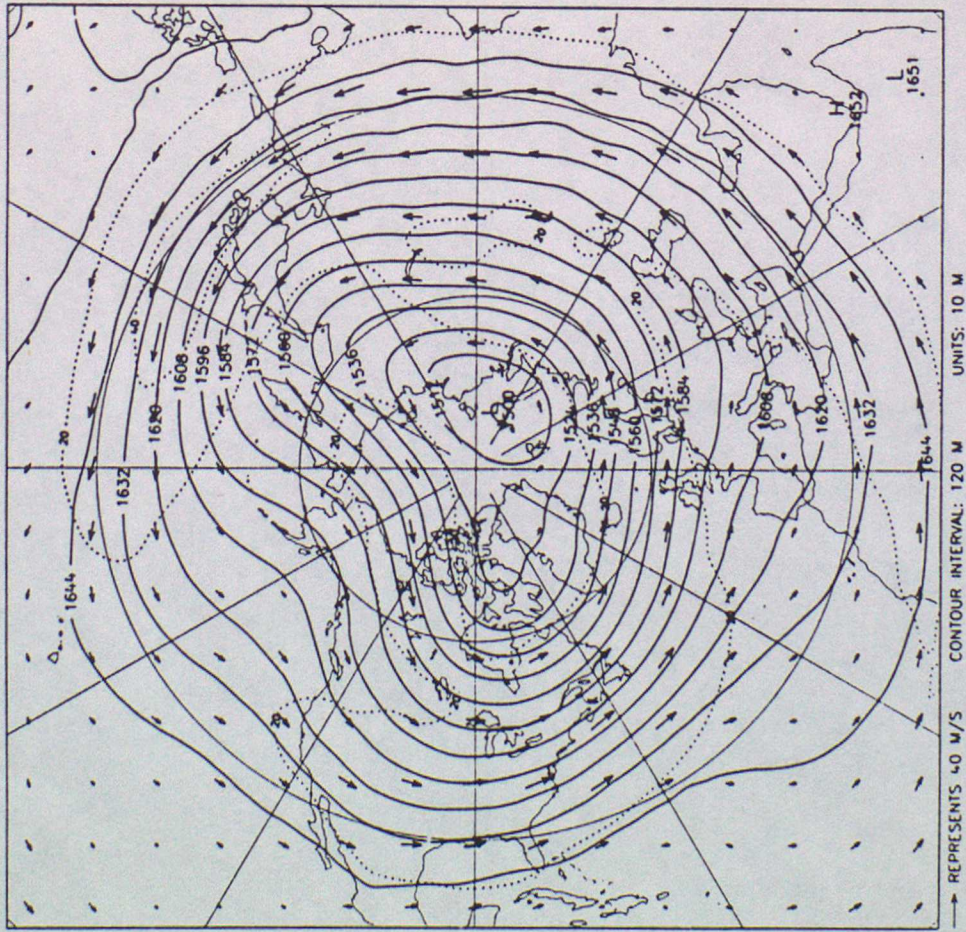




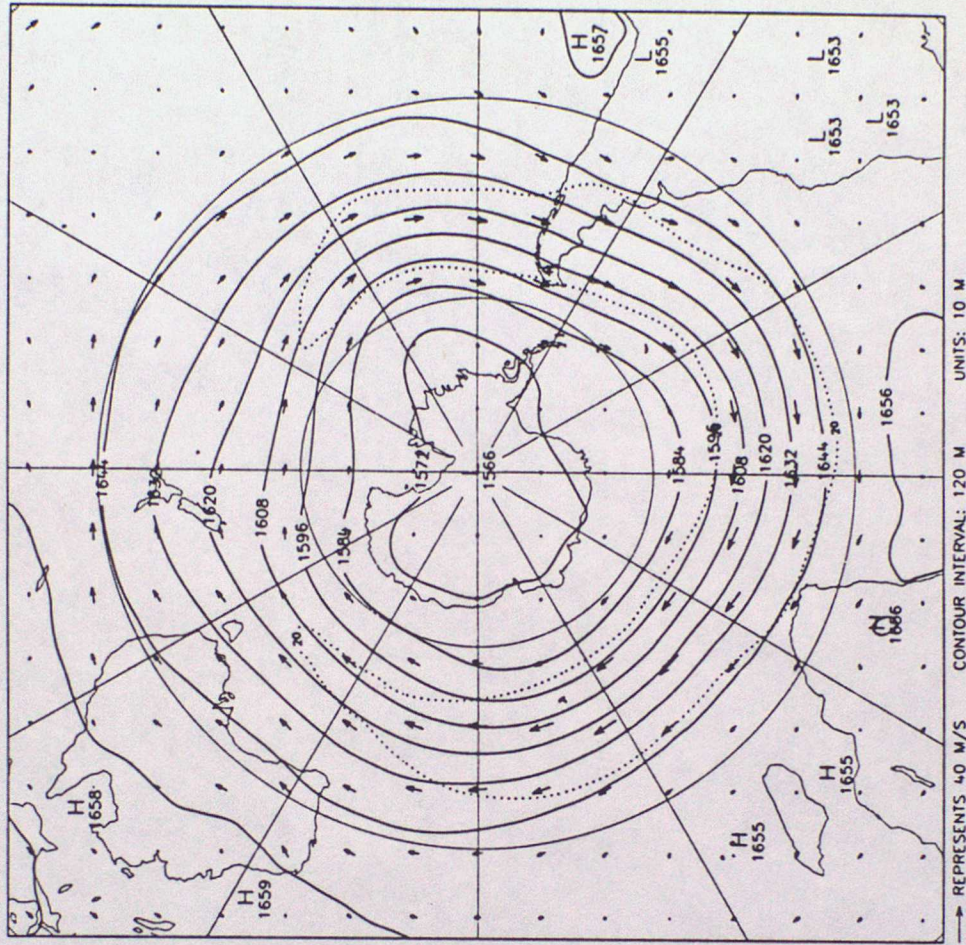




OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
 LEVEL: 100 MB



OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
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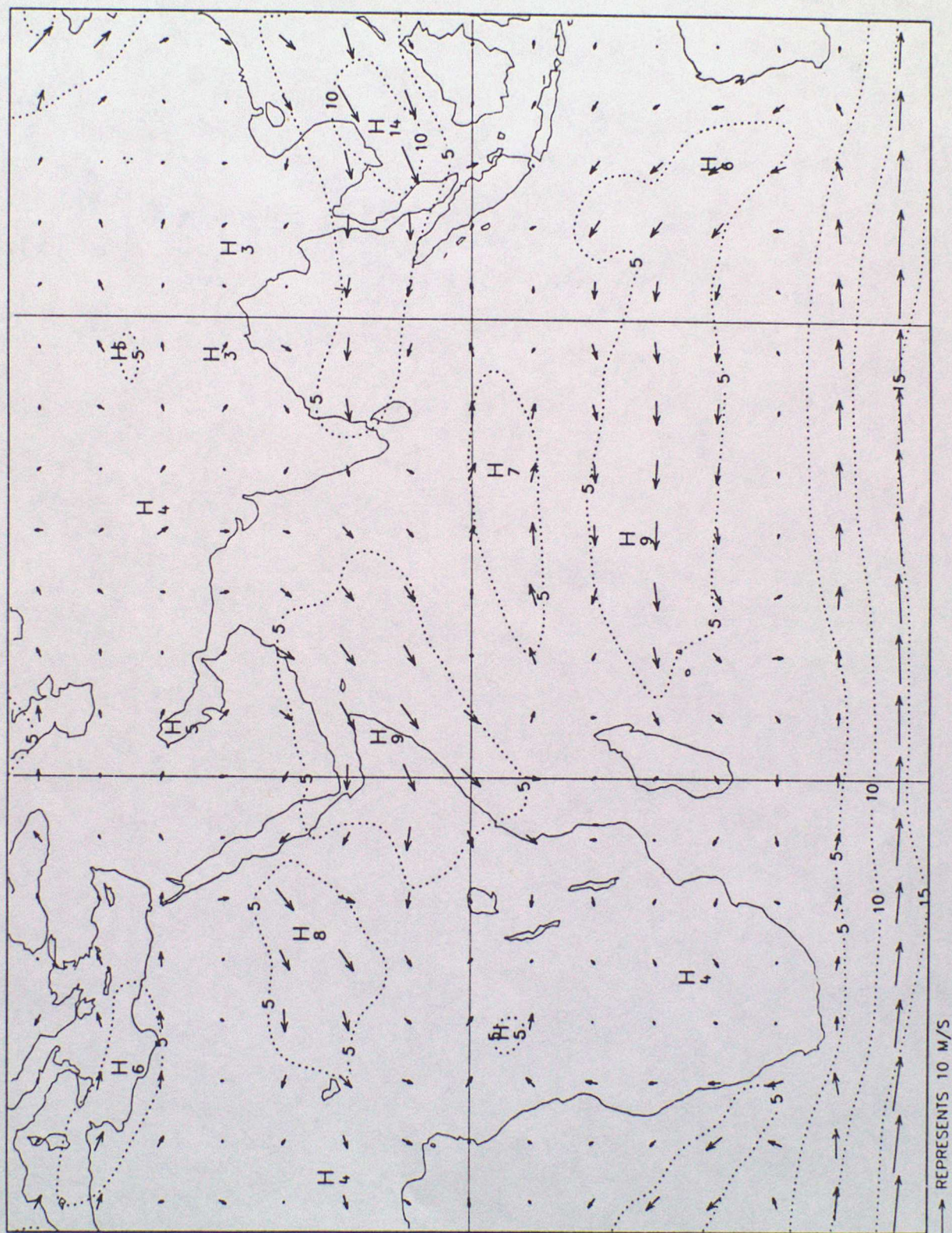








OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
 850 MBS.  
 BETWEEN LONGS. 0 E - 120 E

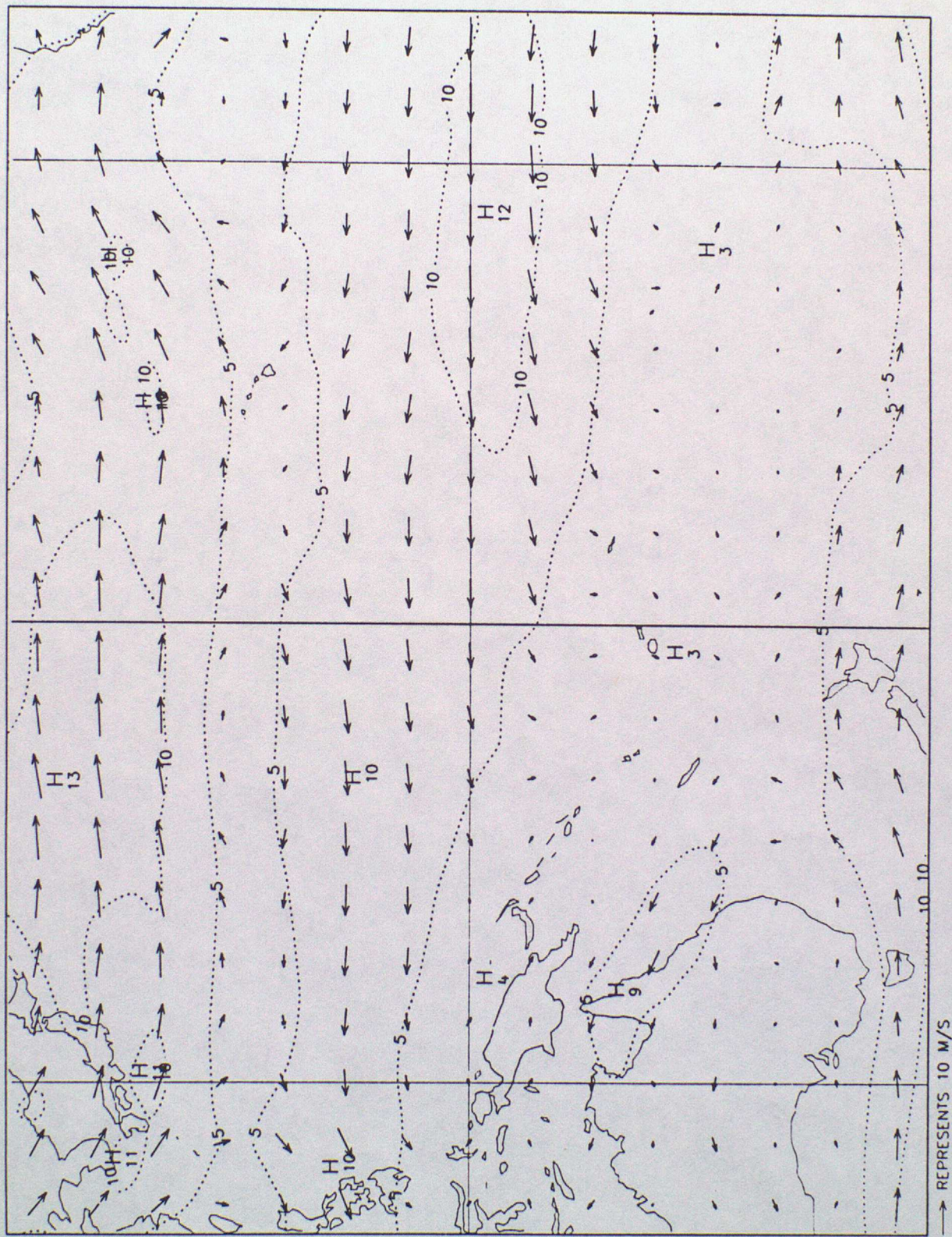








OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
850 MBs.  
BETWEEN LONGS. 120 E - 120 W

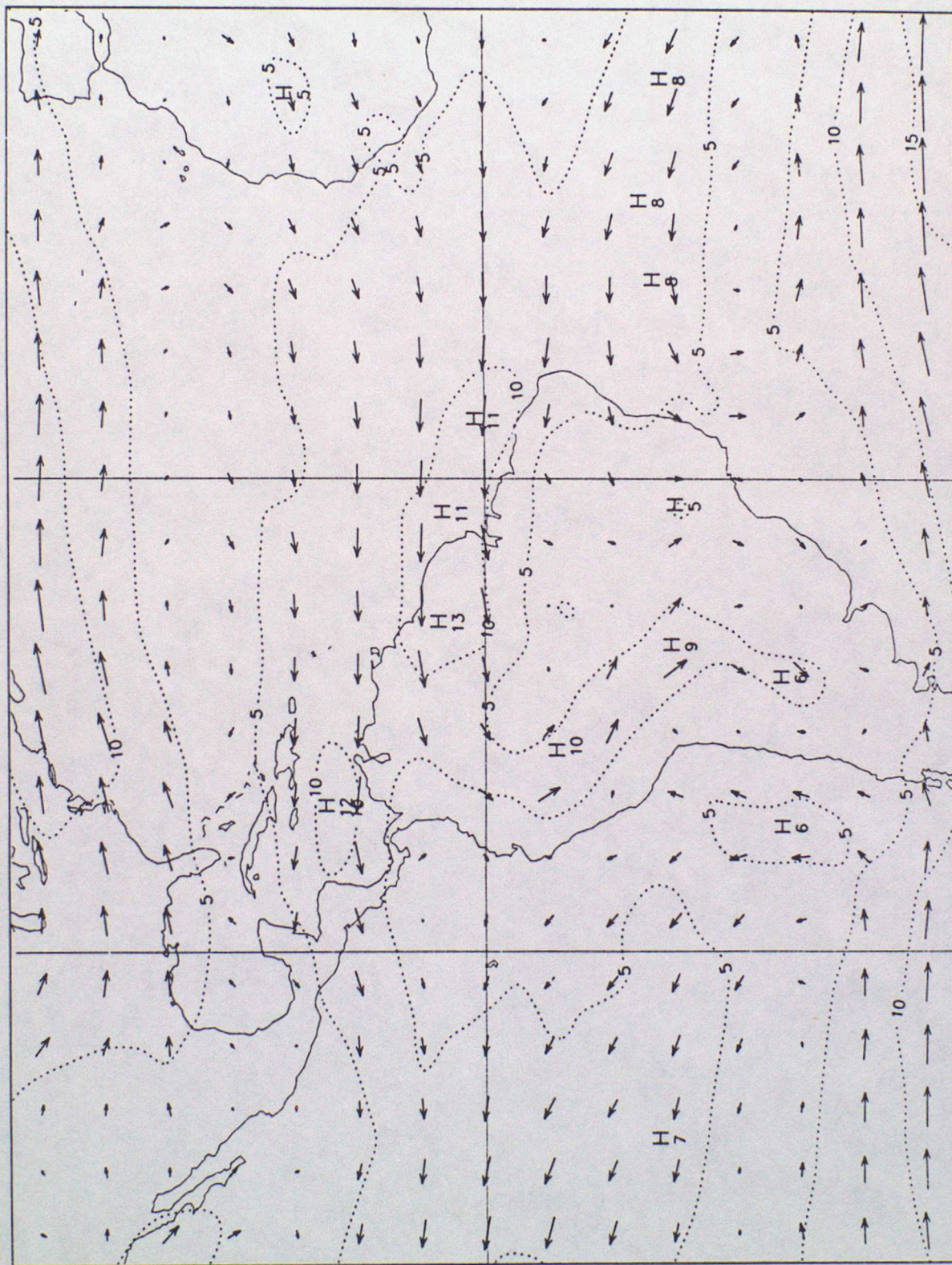








OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
 850 MBS.  
 BETWEEN LONGS. 120 W - 0 W



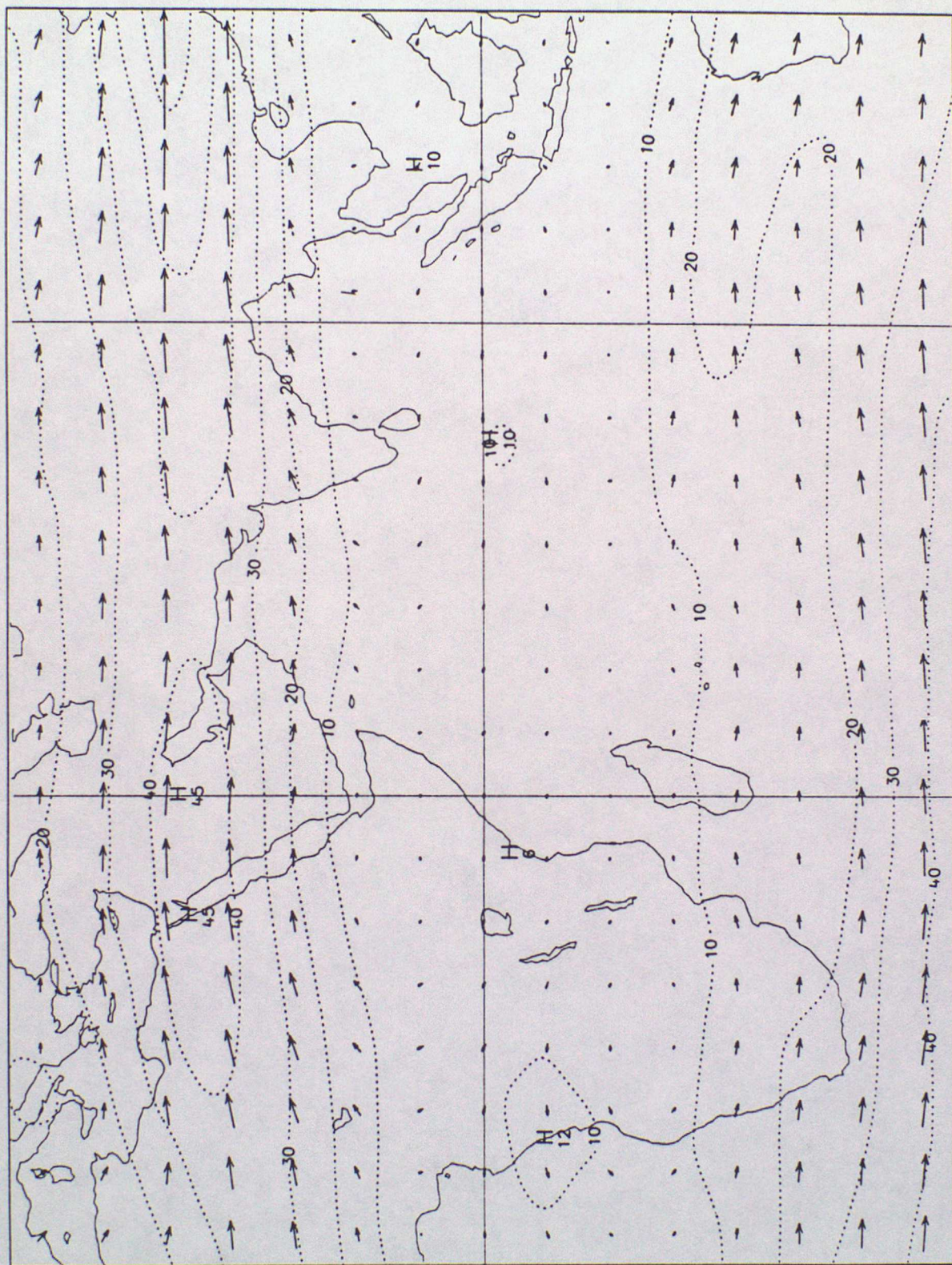
→ REPRESENTS 10 M/S







OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
250 MBS. BETWEEN LONGS. 0 E - 120 E



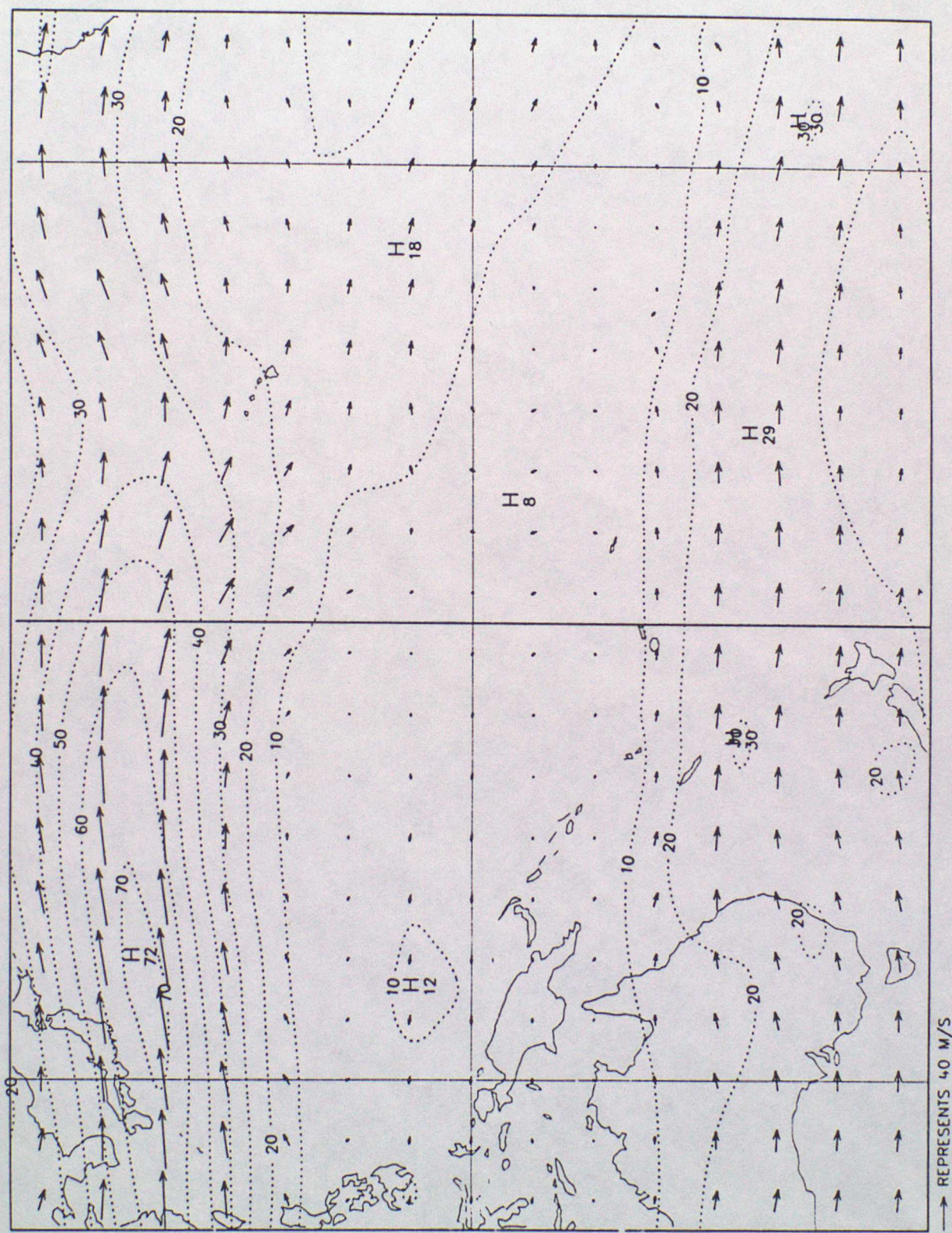
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OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
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 BETWEEN LONGS. 120 E - 120 W

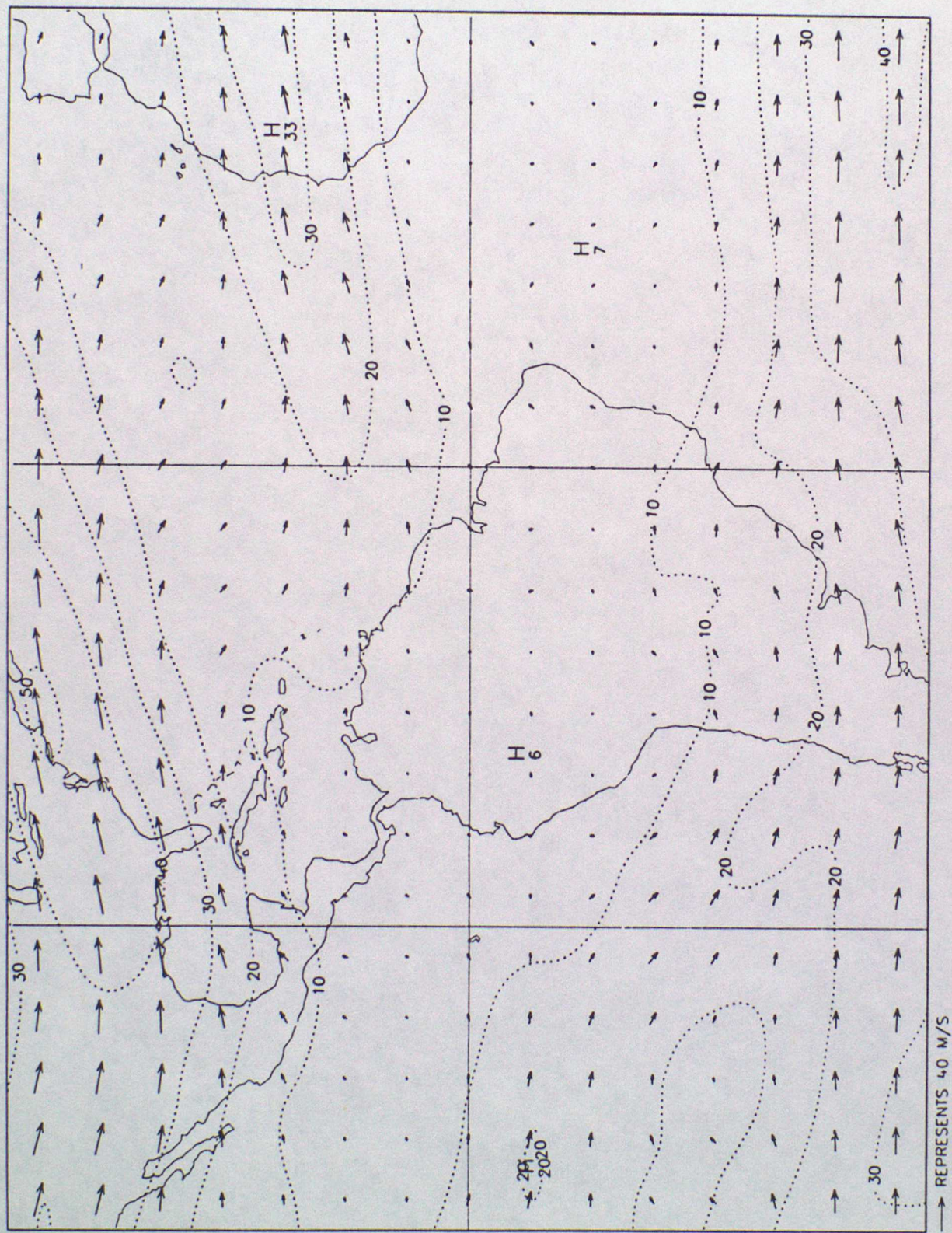








OPERATIONAL ARCHIVE MEANS. DECEMBER 1983  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 31/12/1983 DAY 365  
 250 MBS.  
 BETWEEN LONGS. 120 W - 0 W









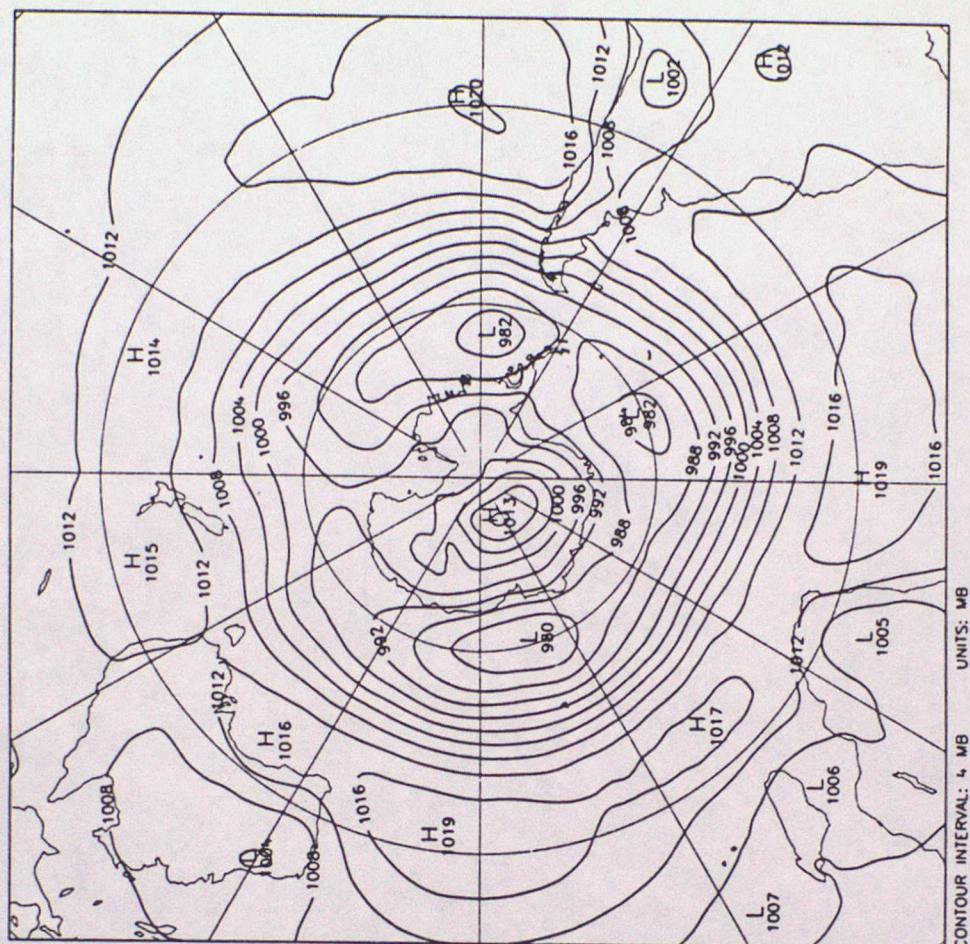
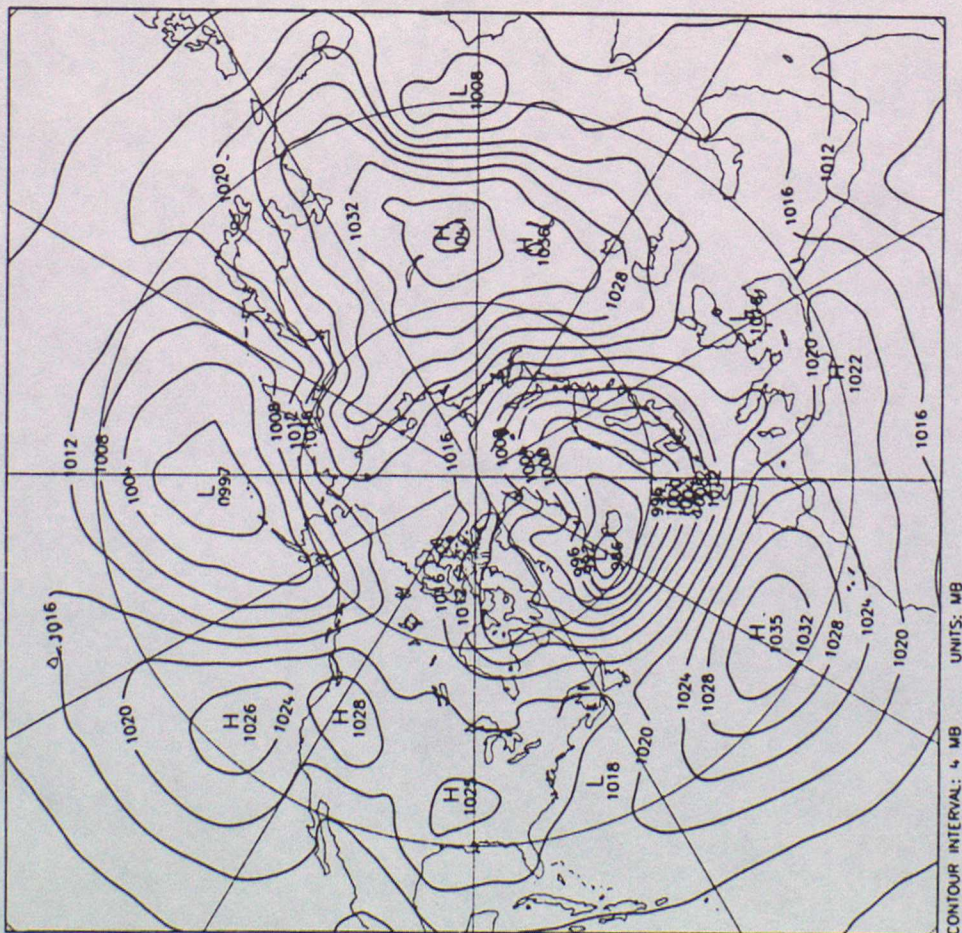
**JANUARY**  
**1984**







OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
PMSL  
AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
LEVEL: SEA LEVEL

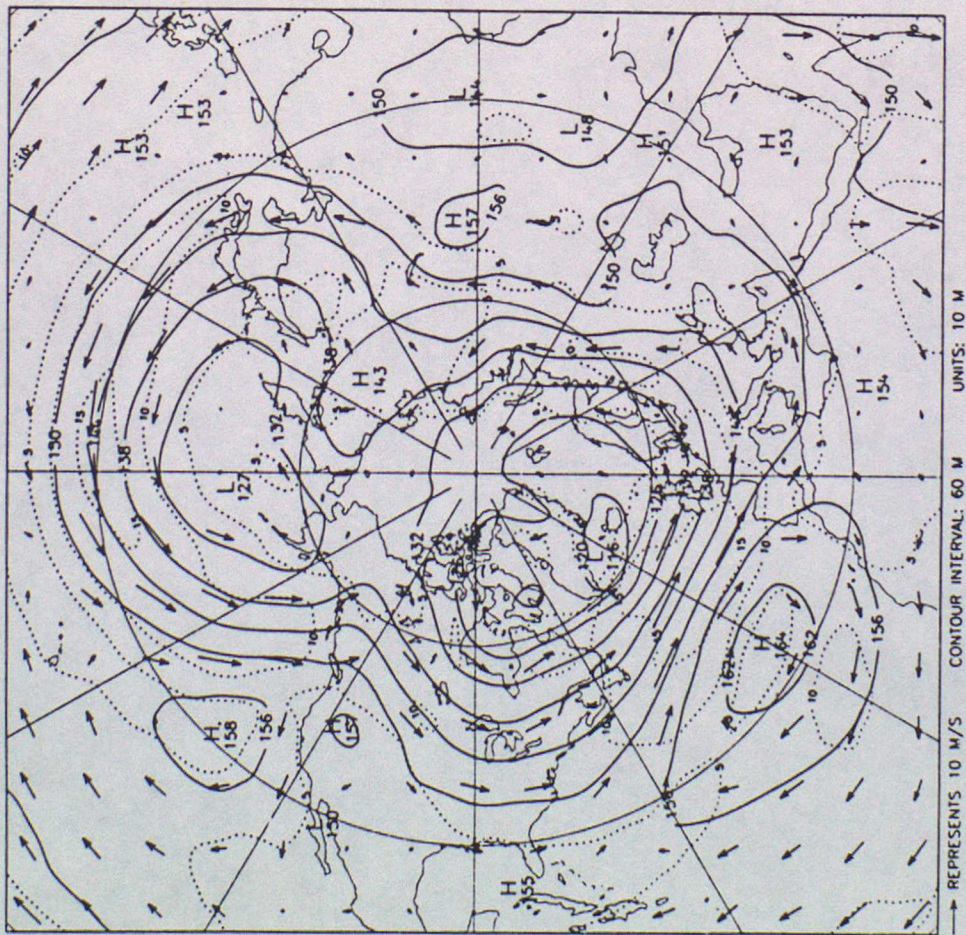




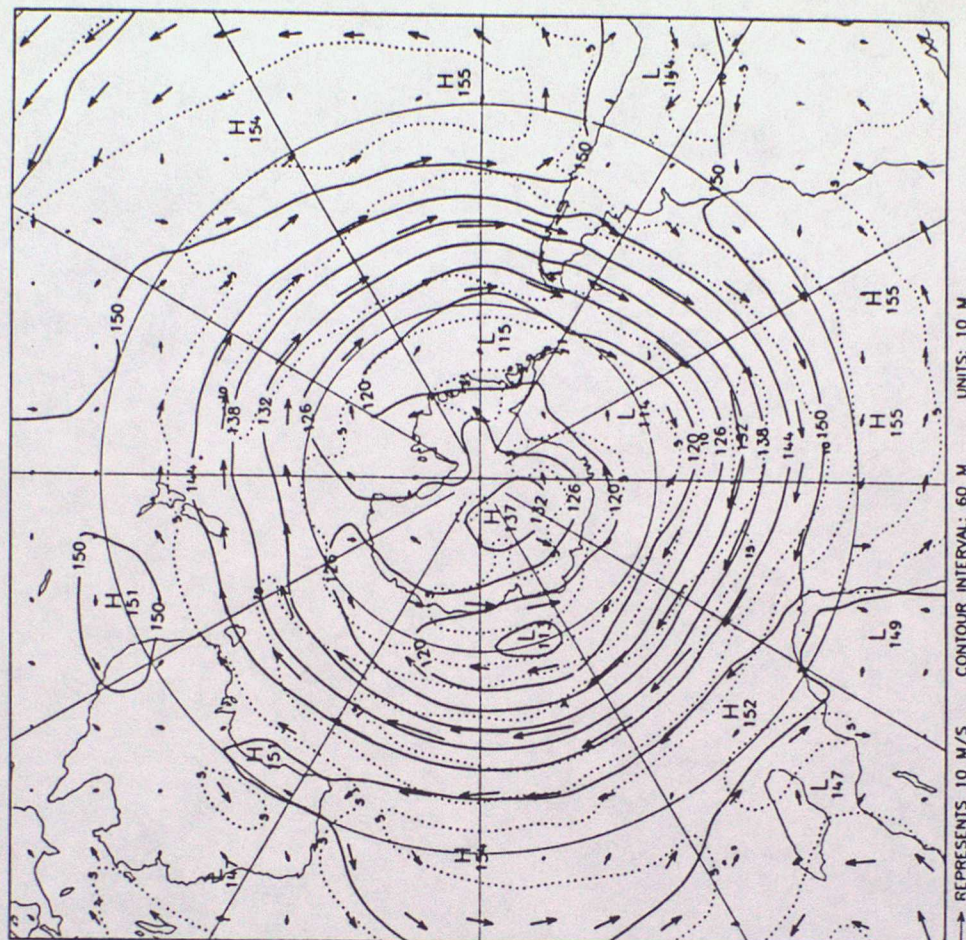




OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 LEVEL: 850 MB



OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 LEVEL: 850 MB

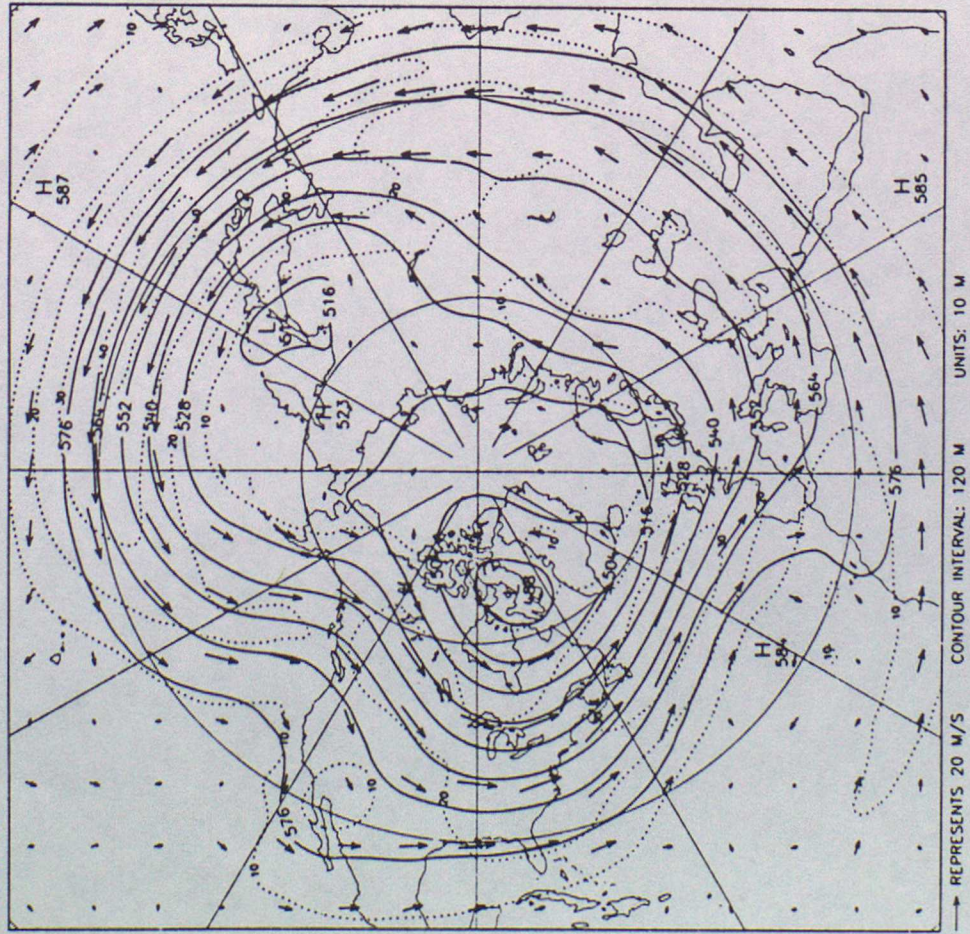




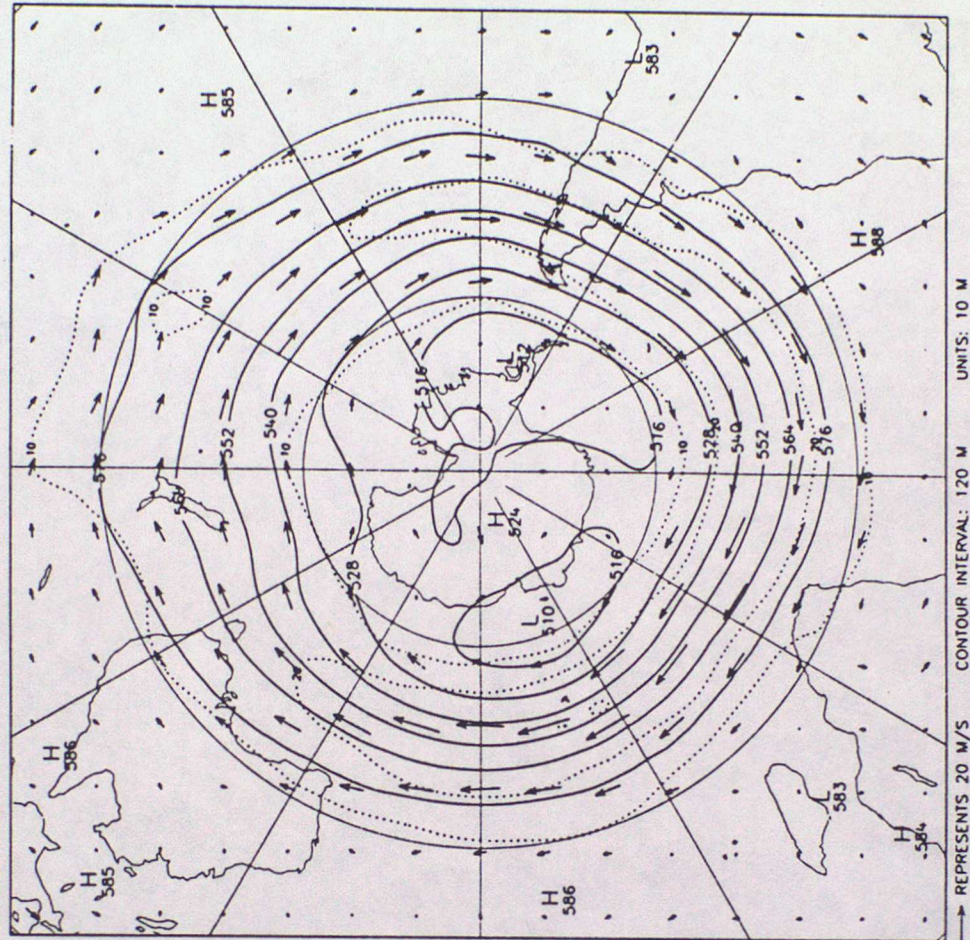




OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
HEIGHTS, WIND ARROWS AND ISOTACHS.  
AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
LEVEL: 500 MB



OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
HEIGHTS, WIND ARROWS AND ISOTACHS.  
AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
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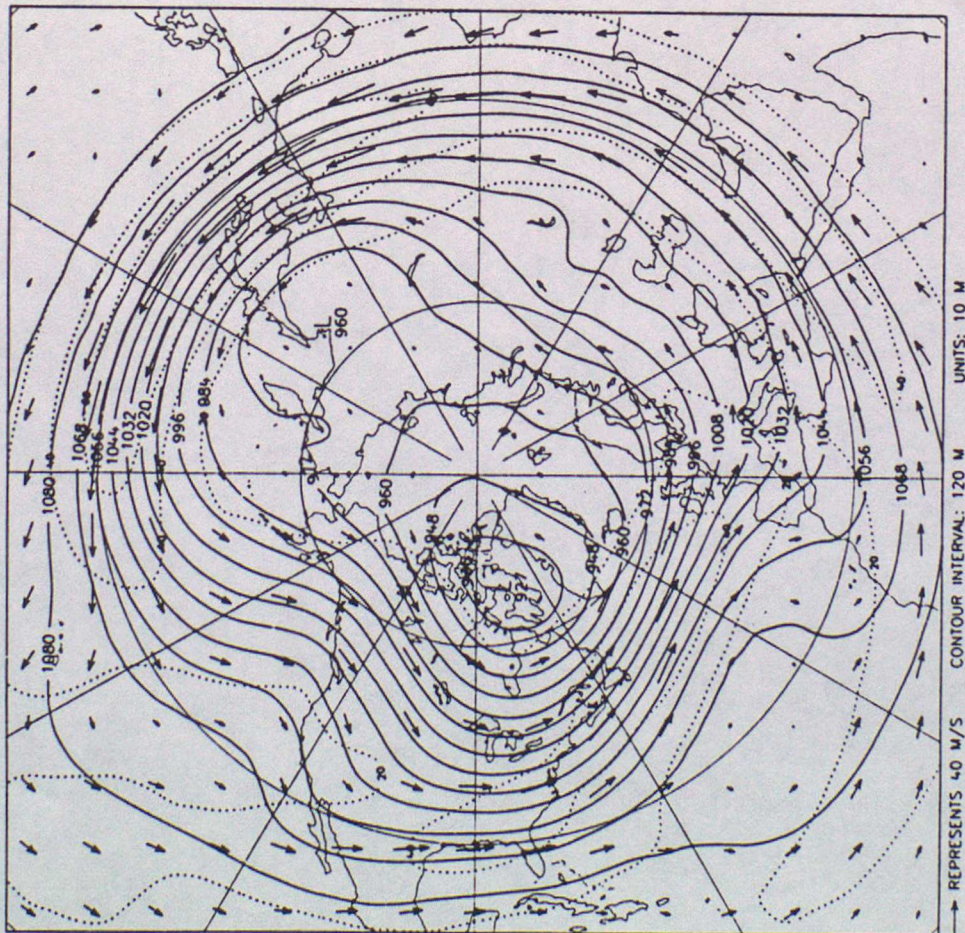




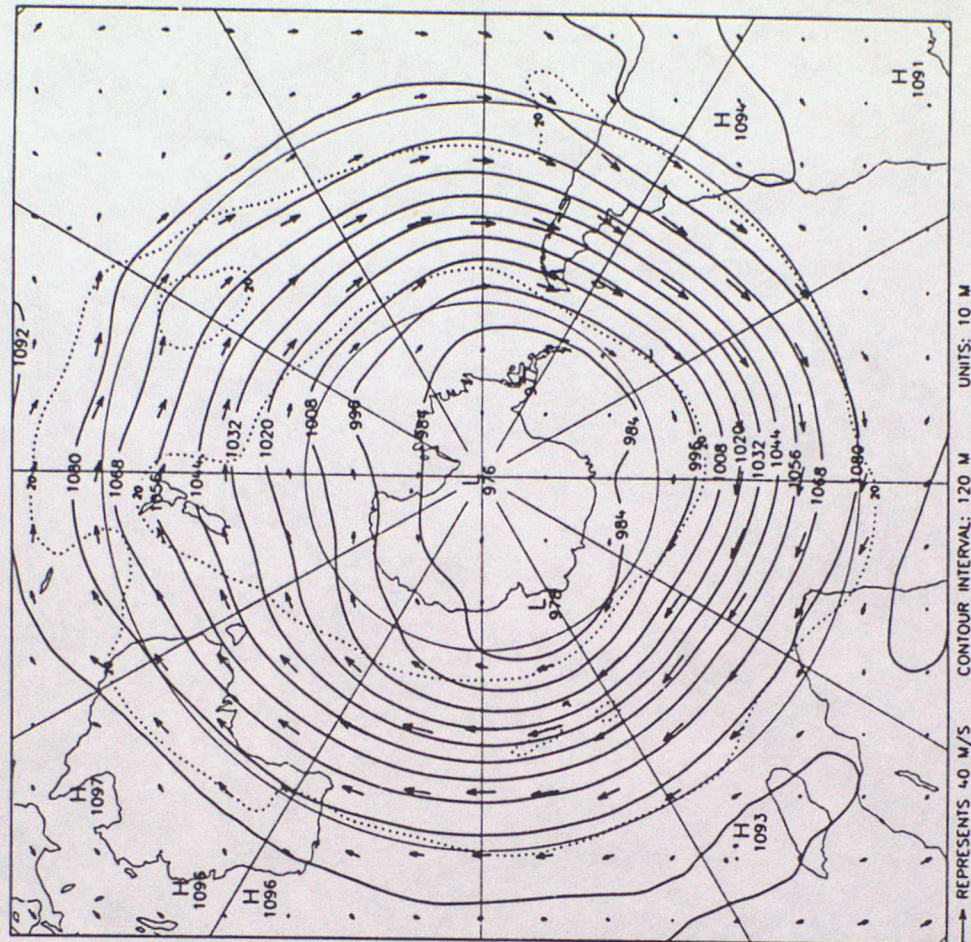




OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 LEVEL: 250 MB



OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
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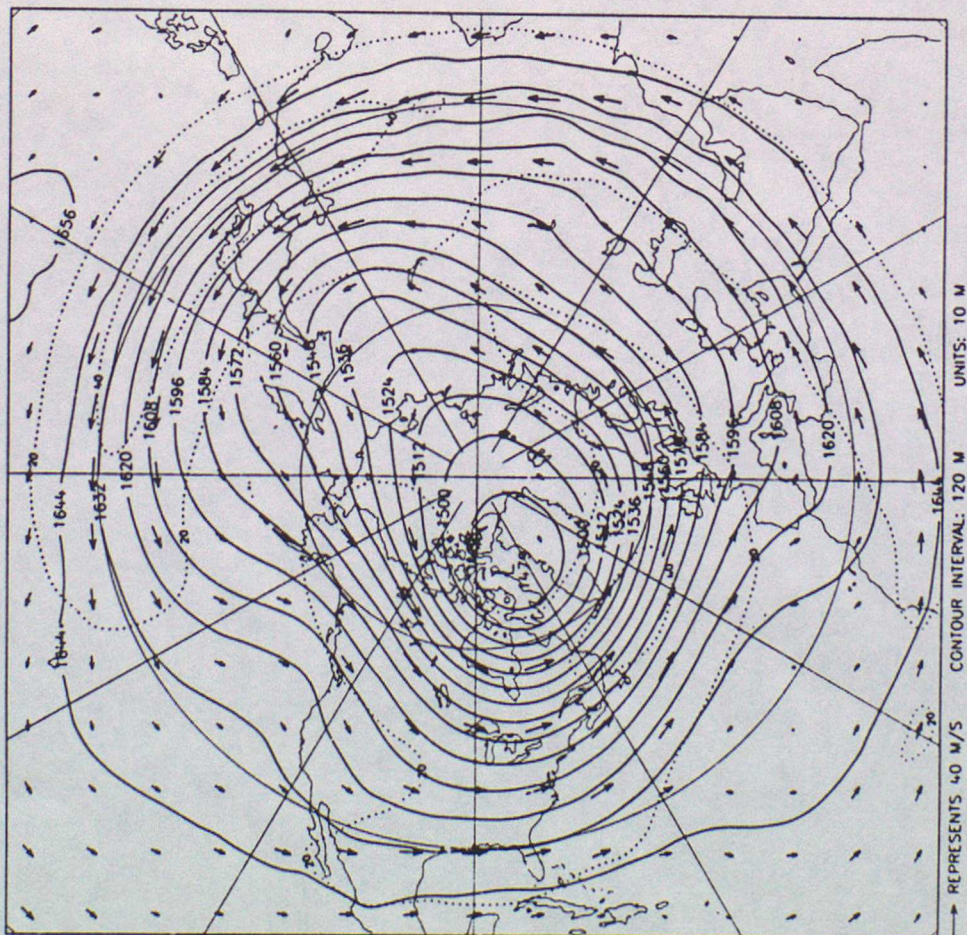




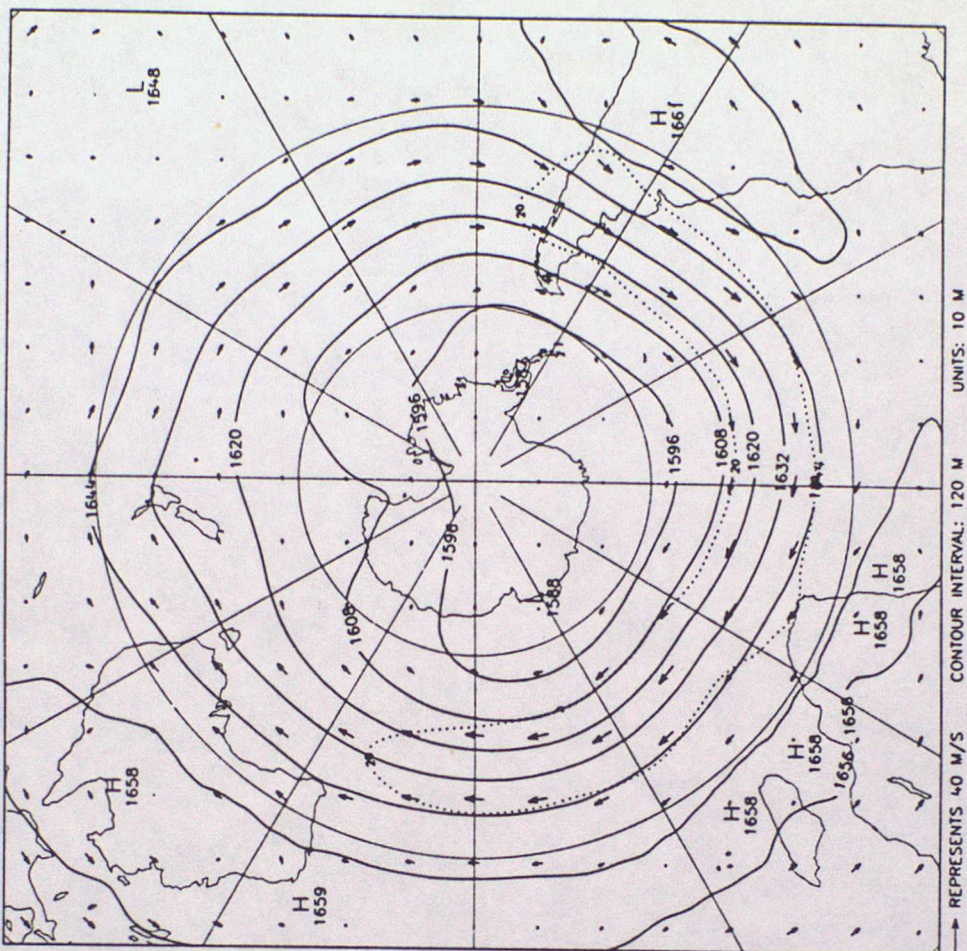




OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 LEVEL: 100 MB



OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
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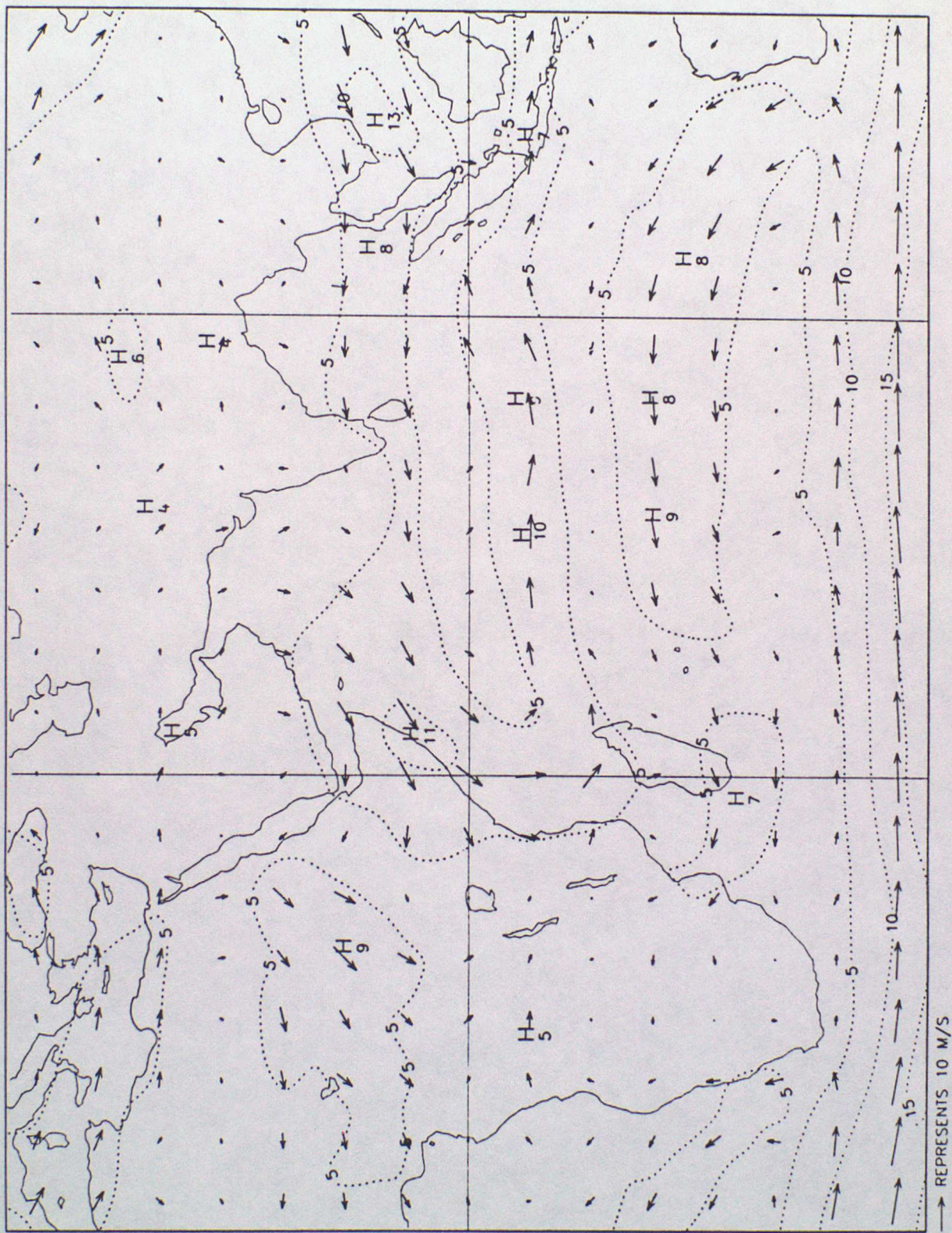








OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 BETWEEN LONGS. 0 E - 120 E  
 850 MBS.

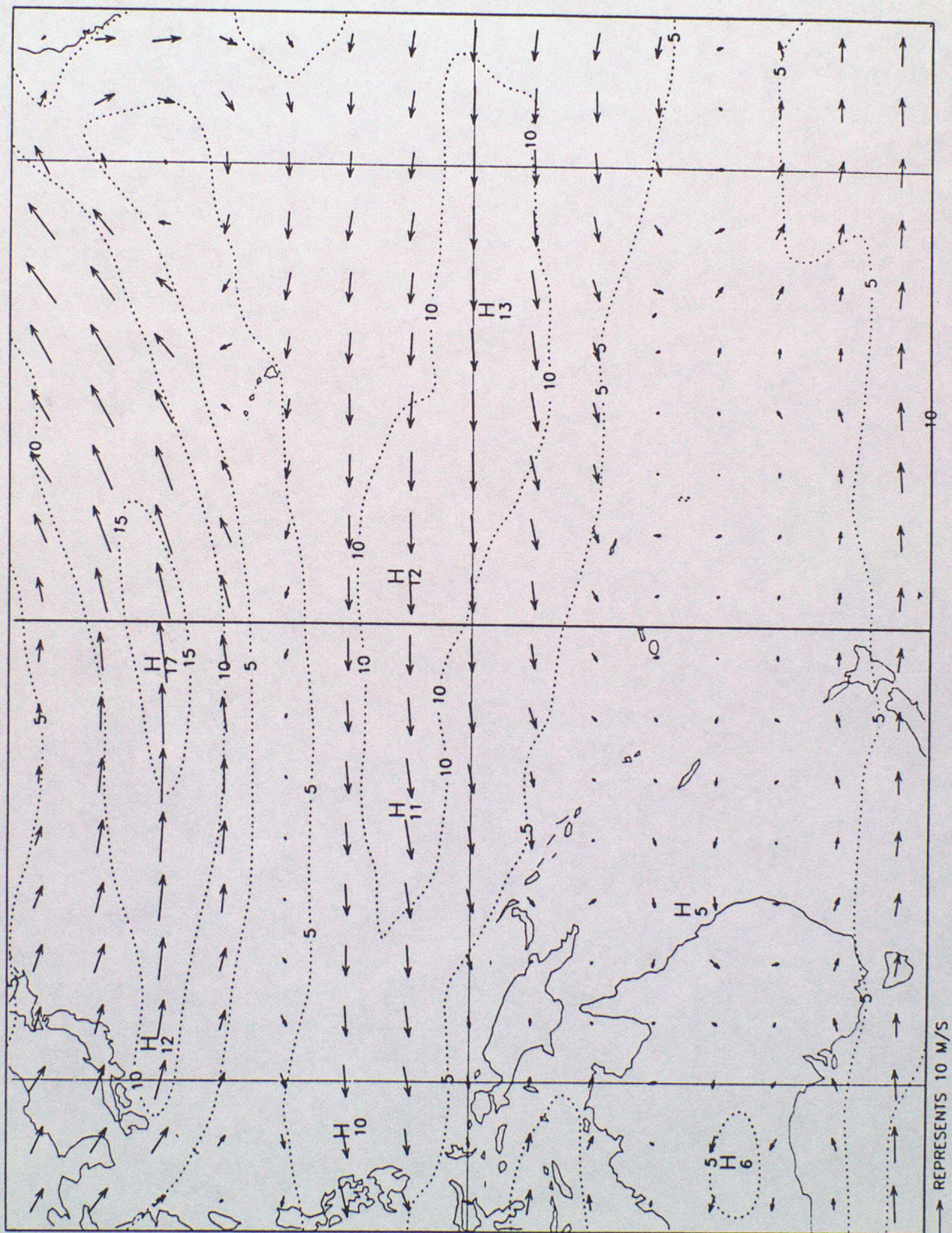








OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 BETWEEN LONGS. 120 E - 120 W  
 850 MBS.

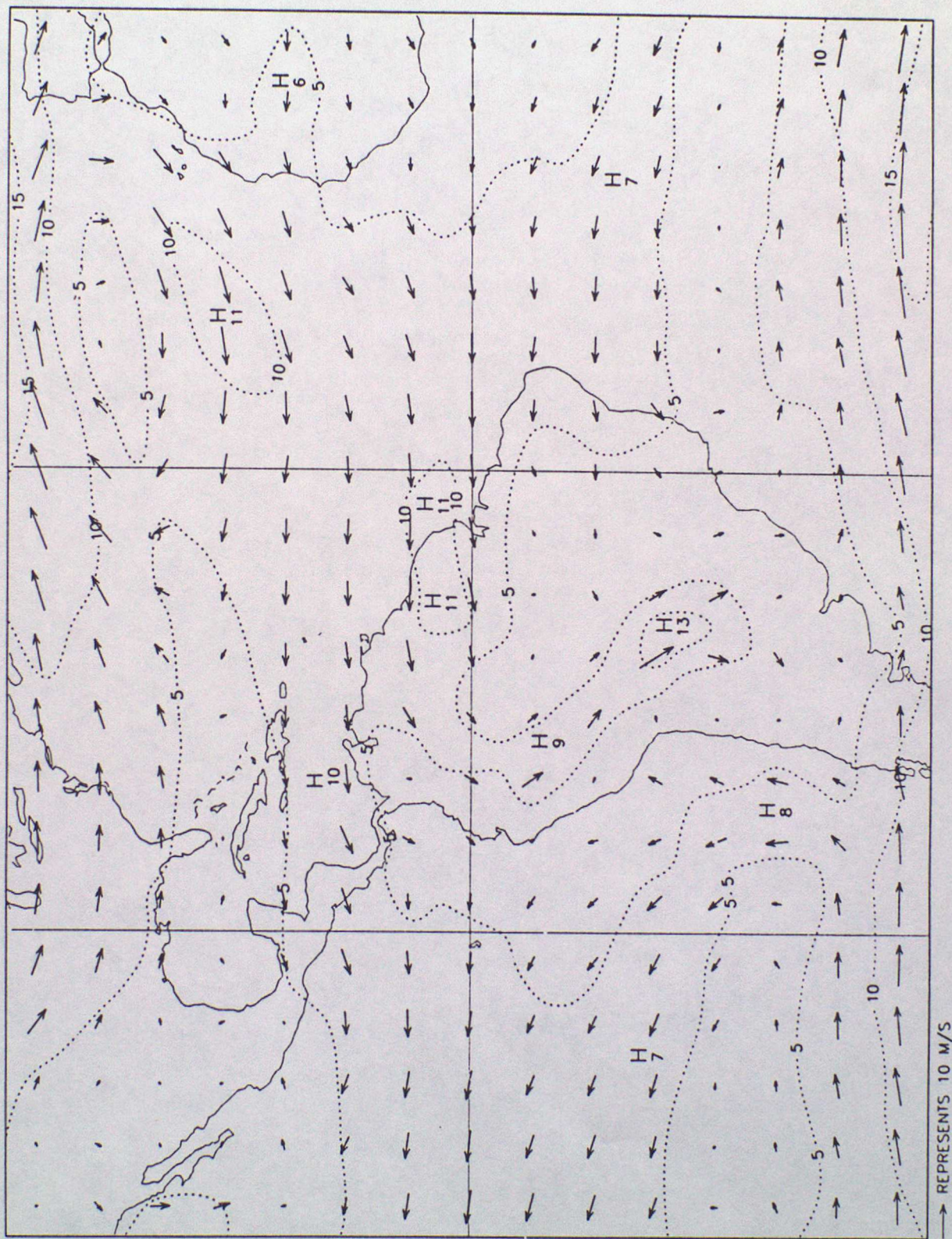








OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 850 MBS.  
 BETWEEN LONGS. 120 W - 0 W

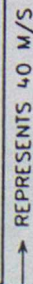








BETWEEN LONGS. 0 E - 120 E

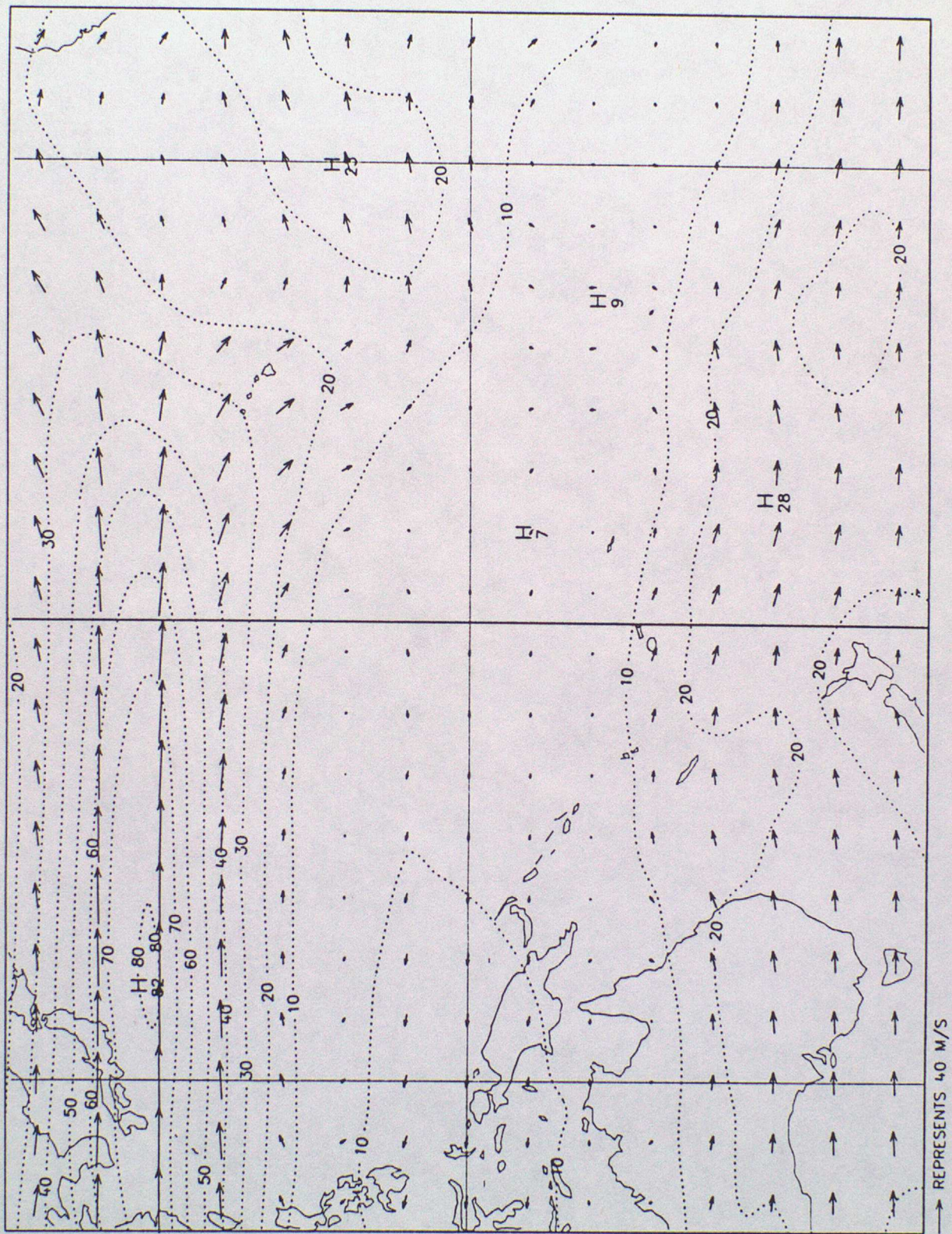








OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 250 MBS.  
 BETWEEN LONGS. 120 E - 120 W

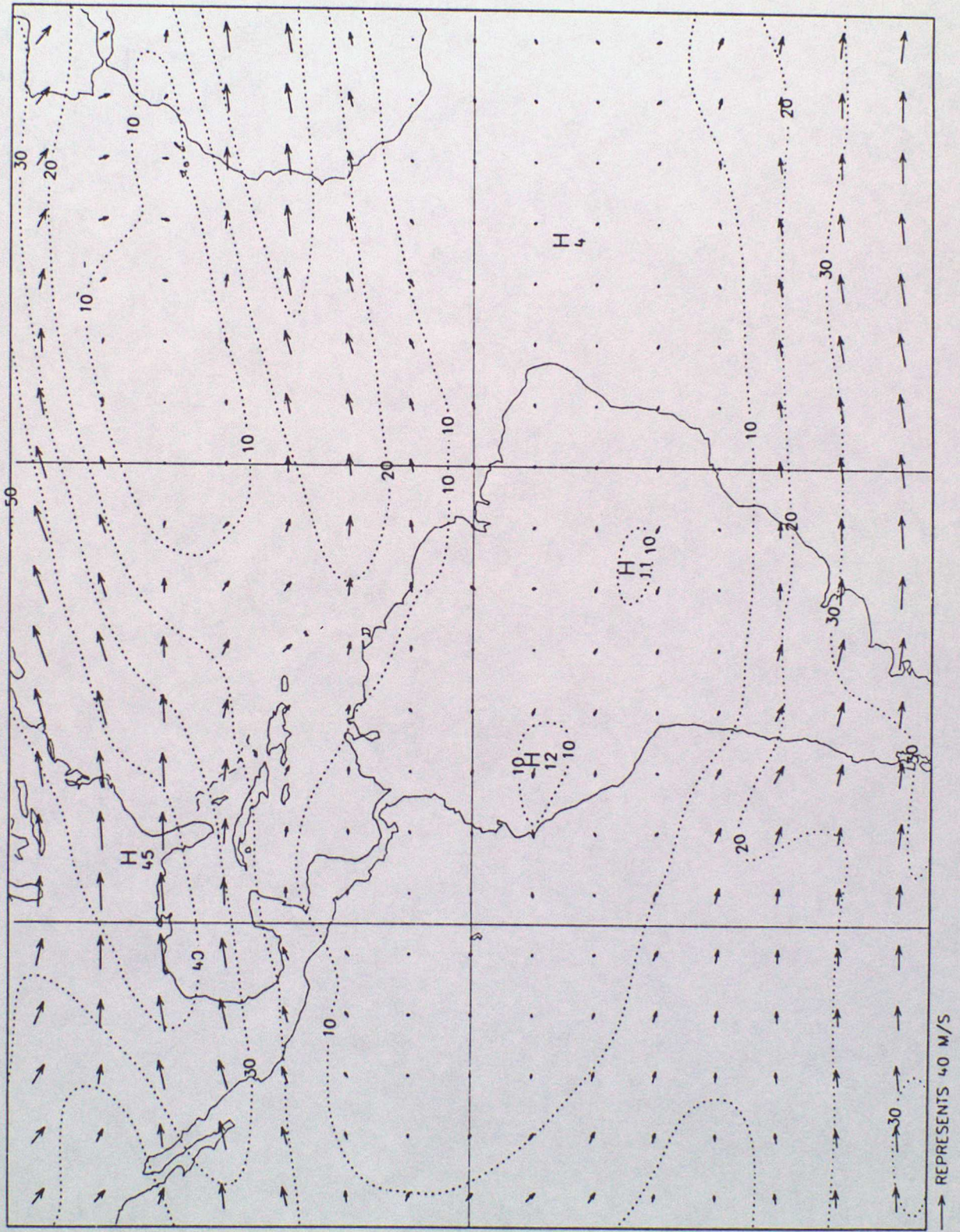








OPERATIONAL ARCHIVE MEANS. JANUARY 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/1/1984 DAY 1 TO 12Z ON 31/1/1984 DAY 31  
 BETWEEN LONGS. 120 W - 0 W  
 250 MBS.









**FEBRUARY**  
**1984**

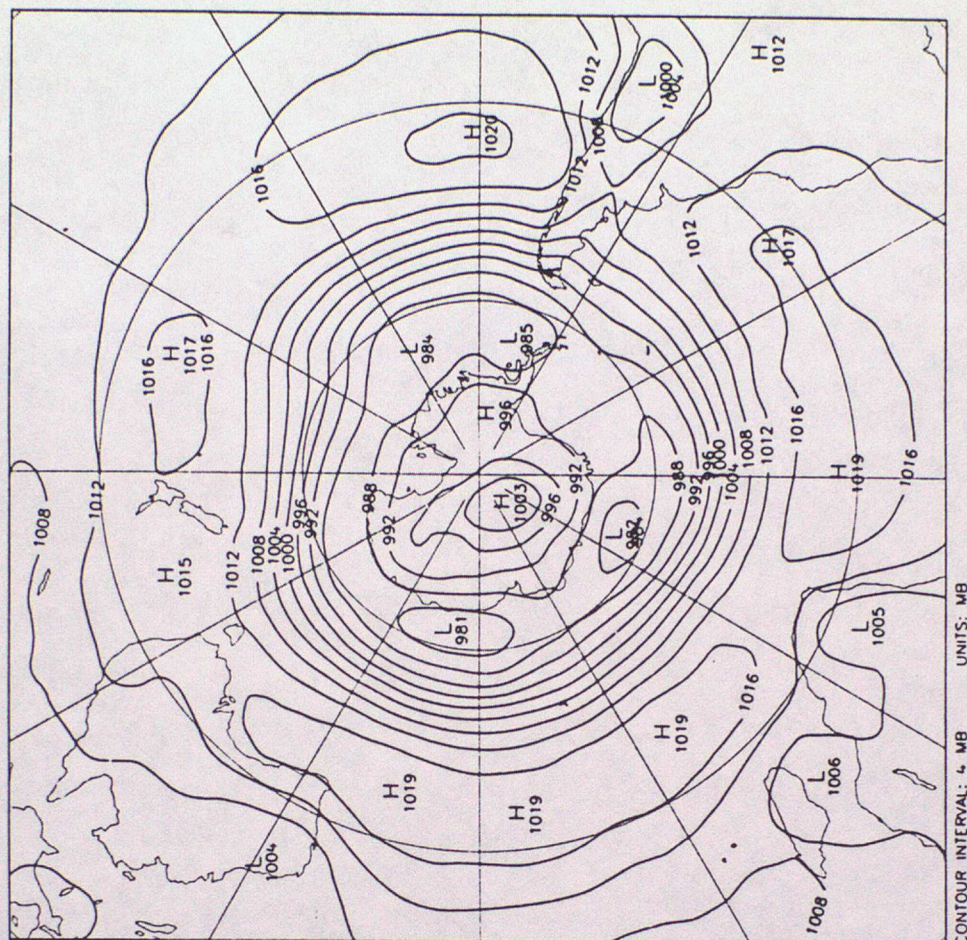






OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
PMSL

AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
LEVEL: SEA LEVEL

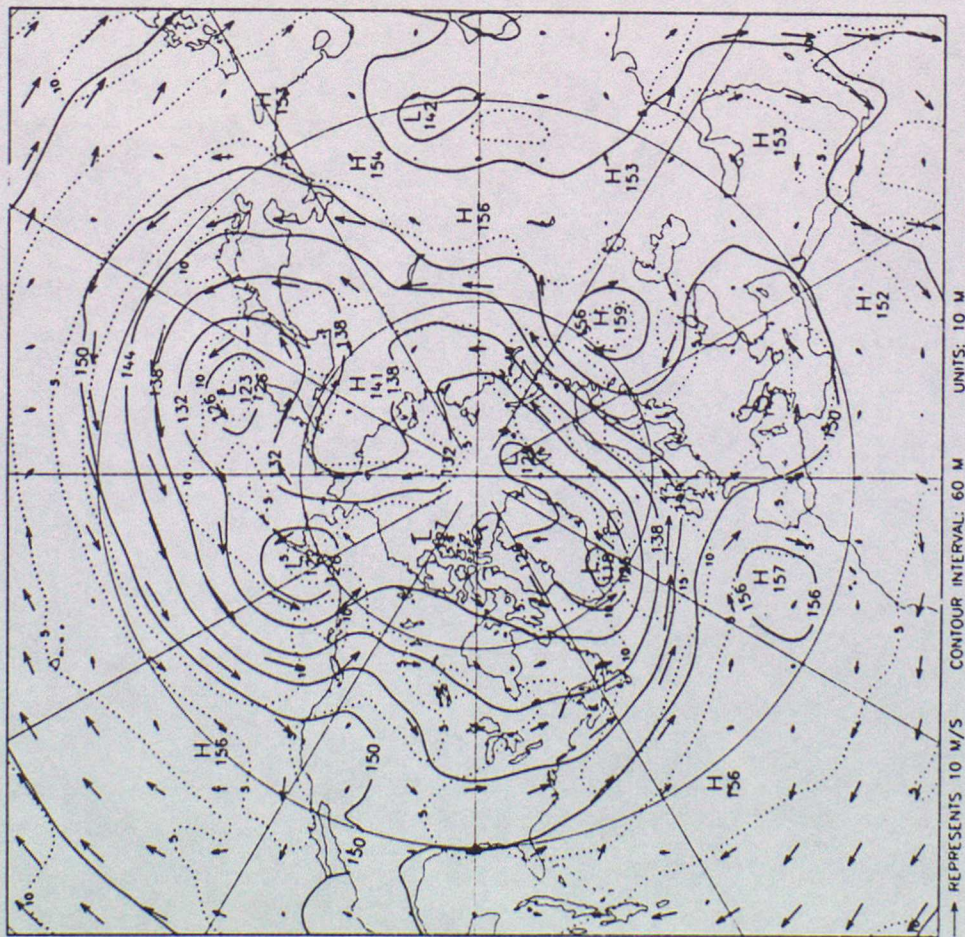




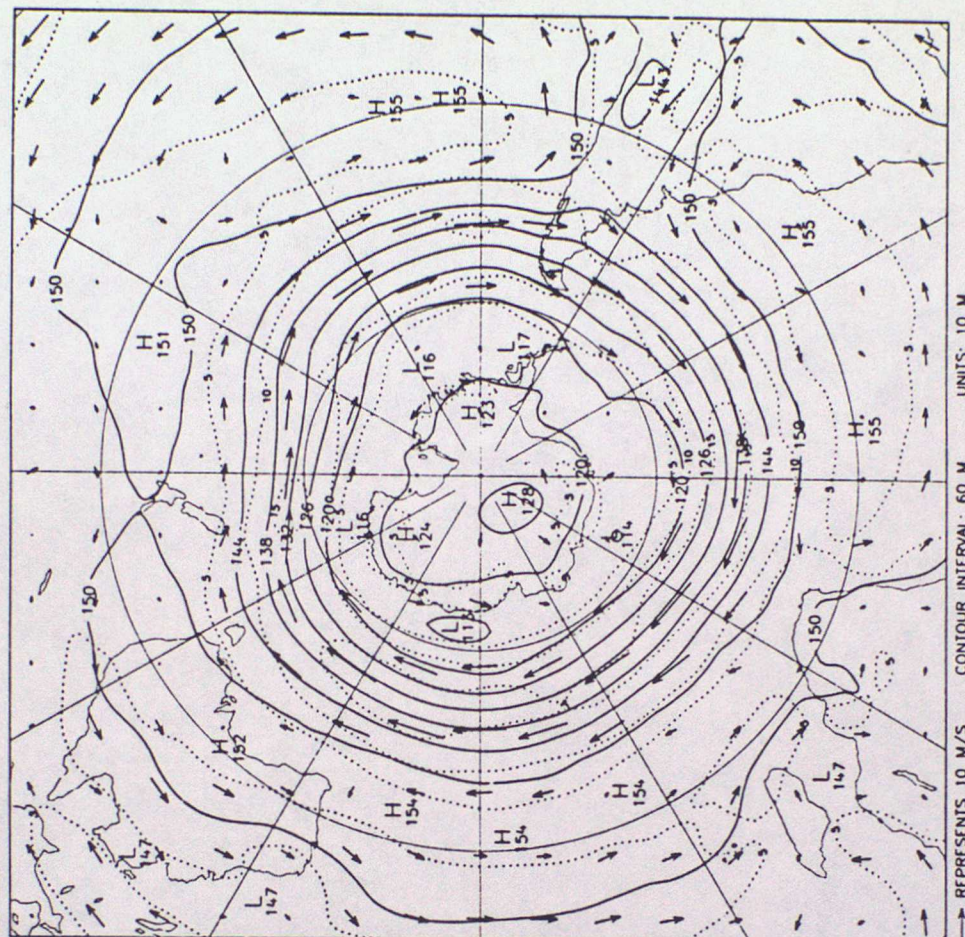




OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 850 MB



OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 850 MB

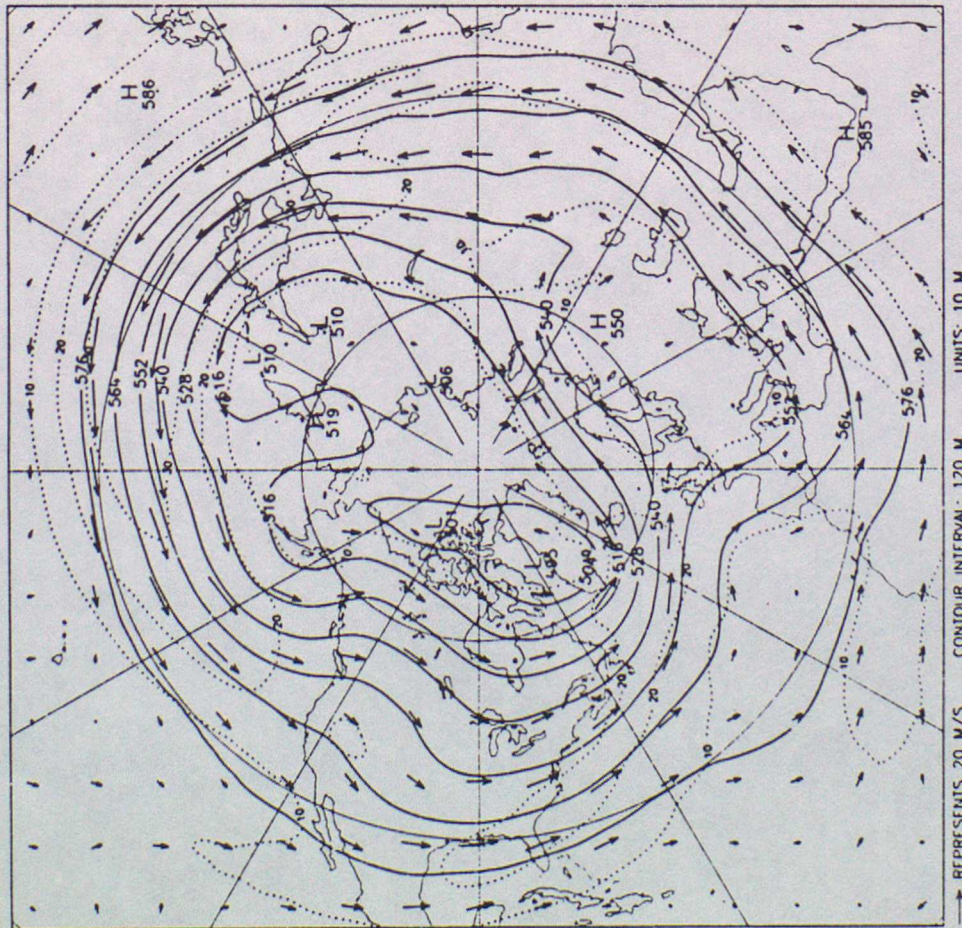




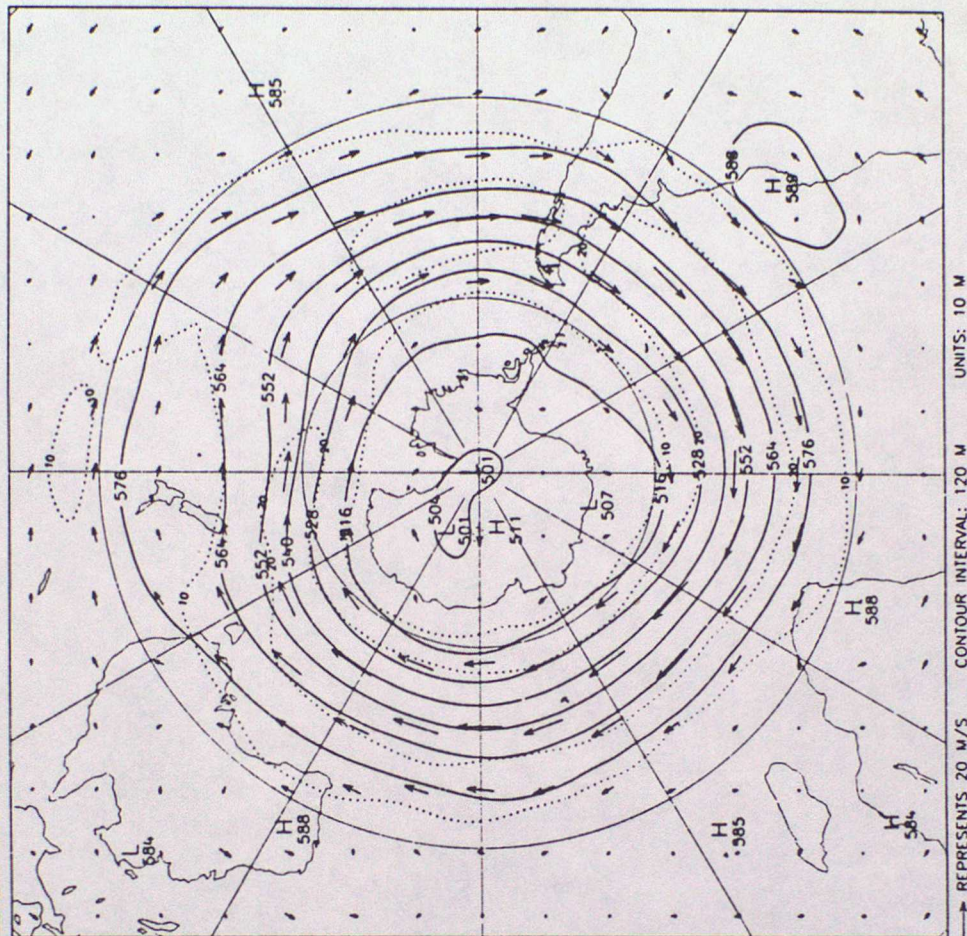




OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 500 MB



OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 500 MB

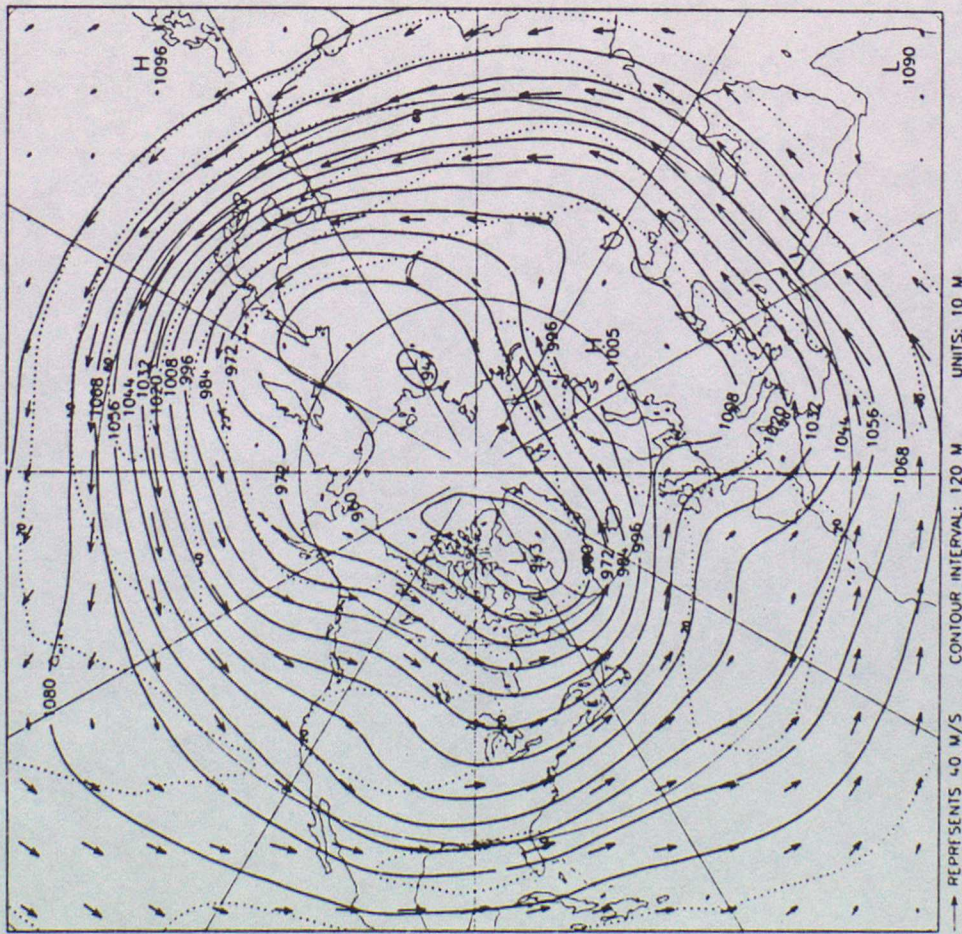




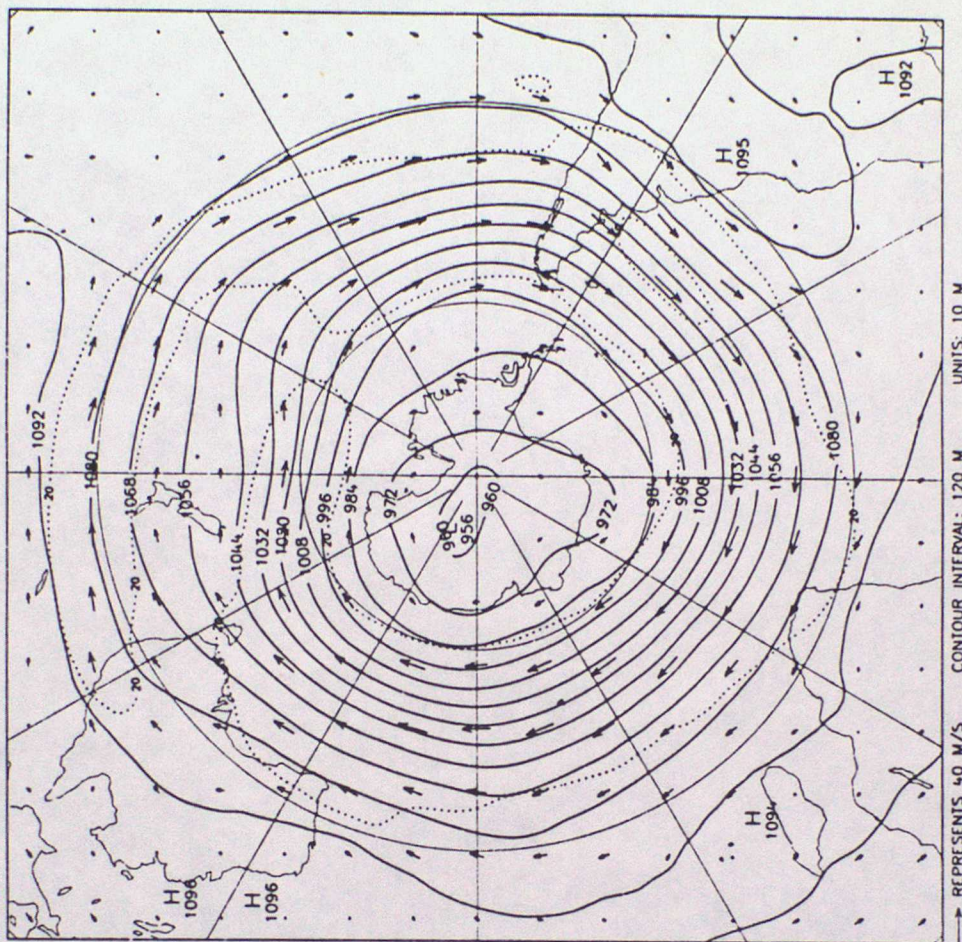




OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 250 MB



OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
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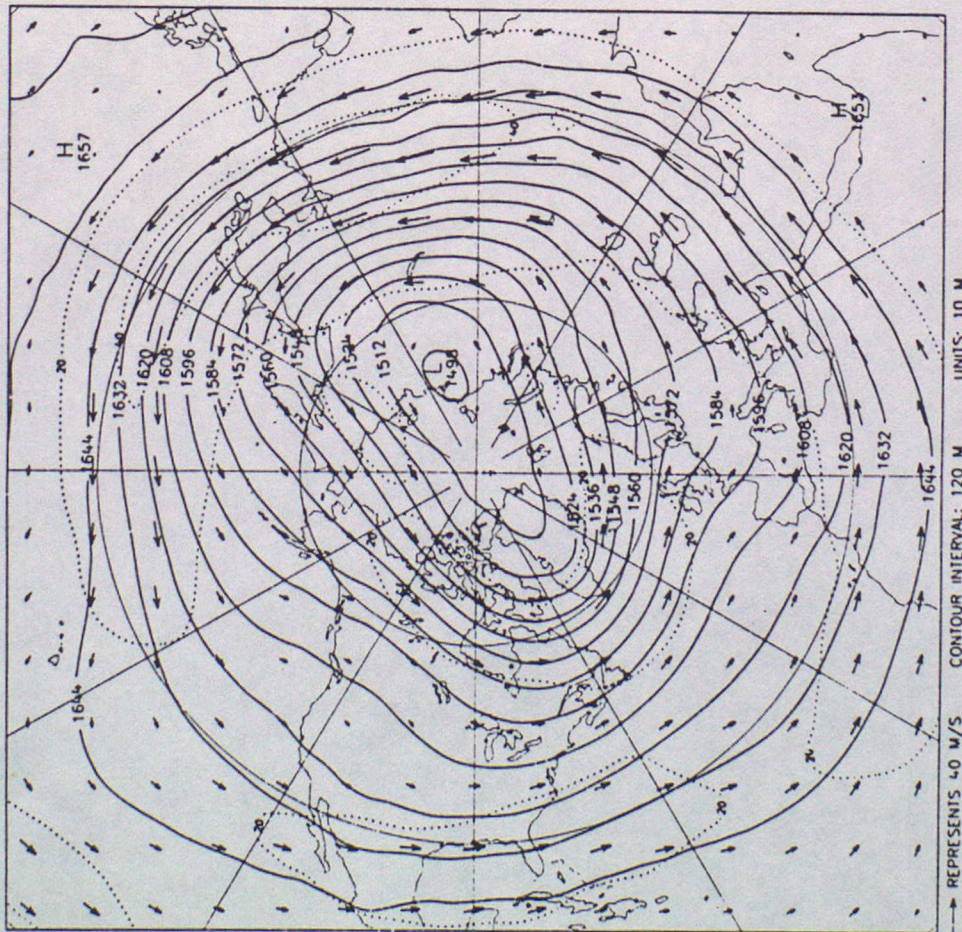




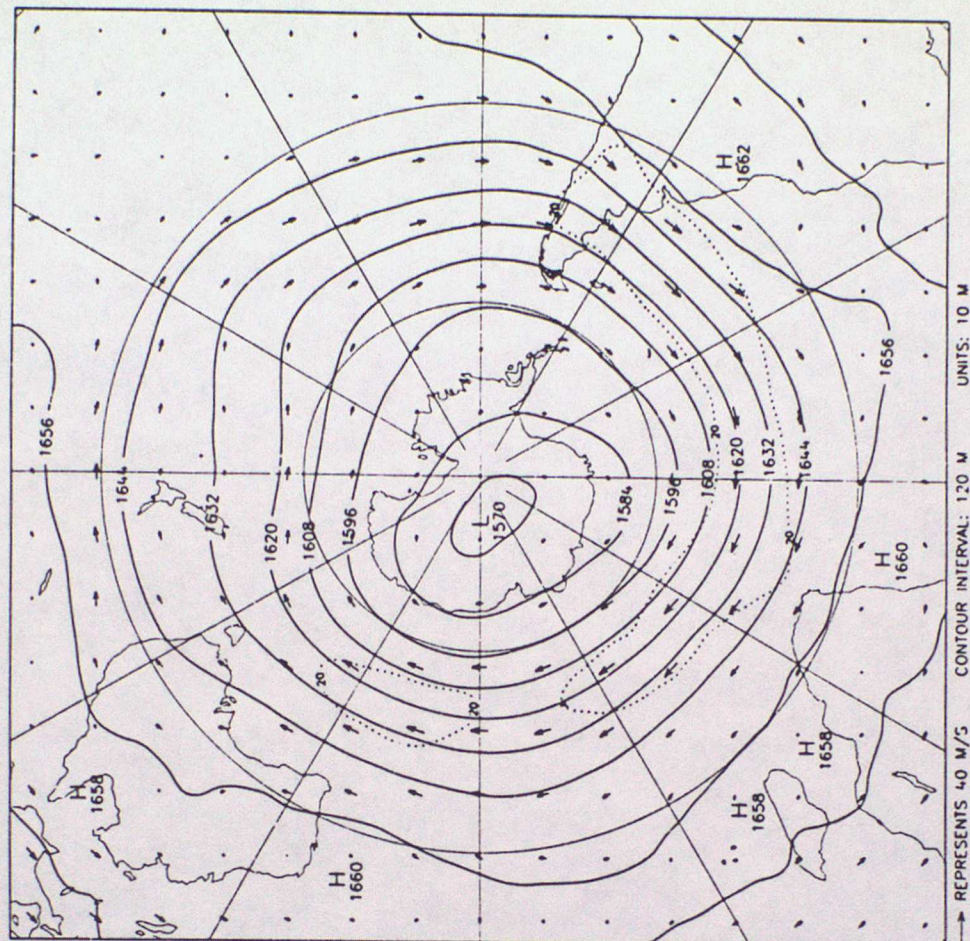




OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 100 MB



OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 100 MB

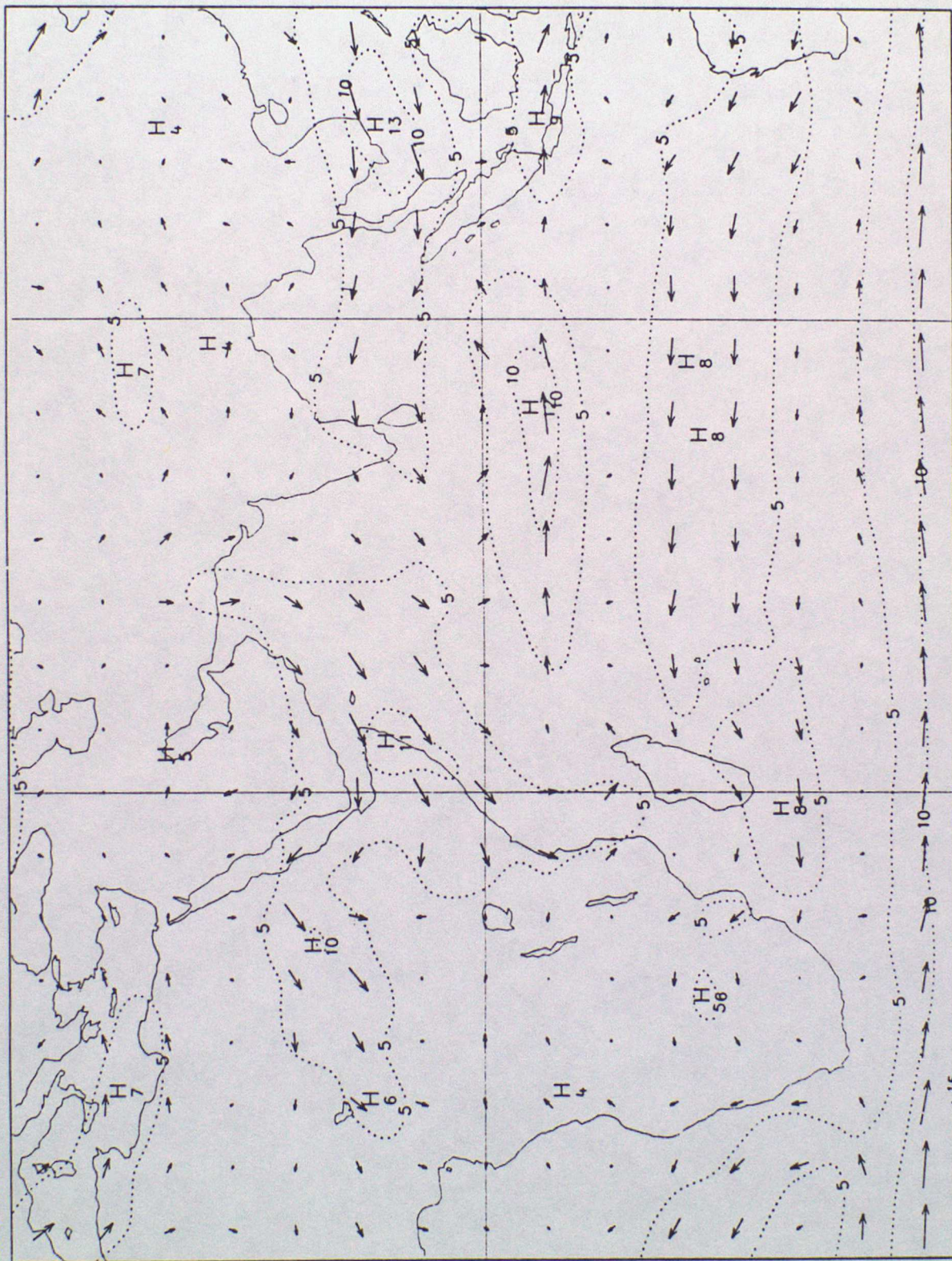








OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 850 MBS.  
 BETWEEN LONGS. 0 E - 120 E



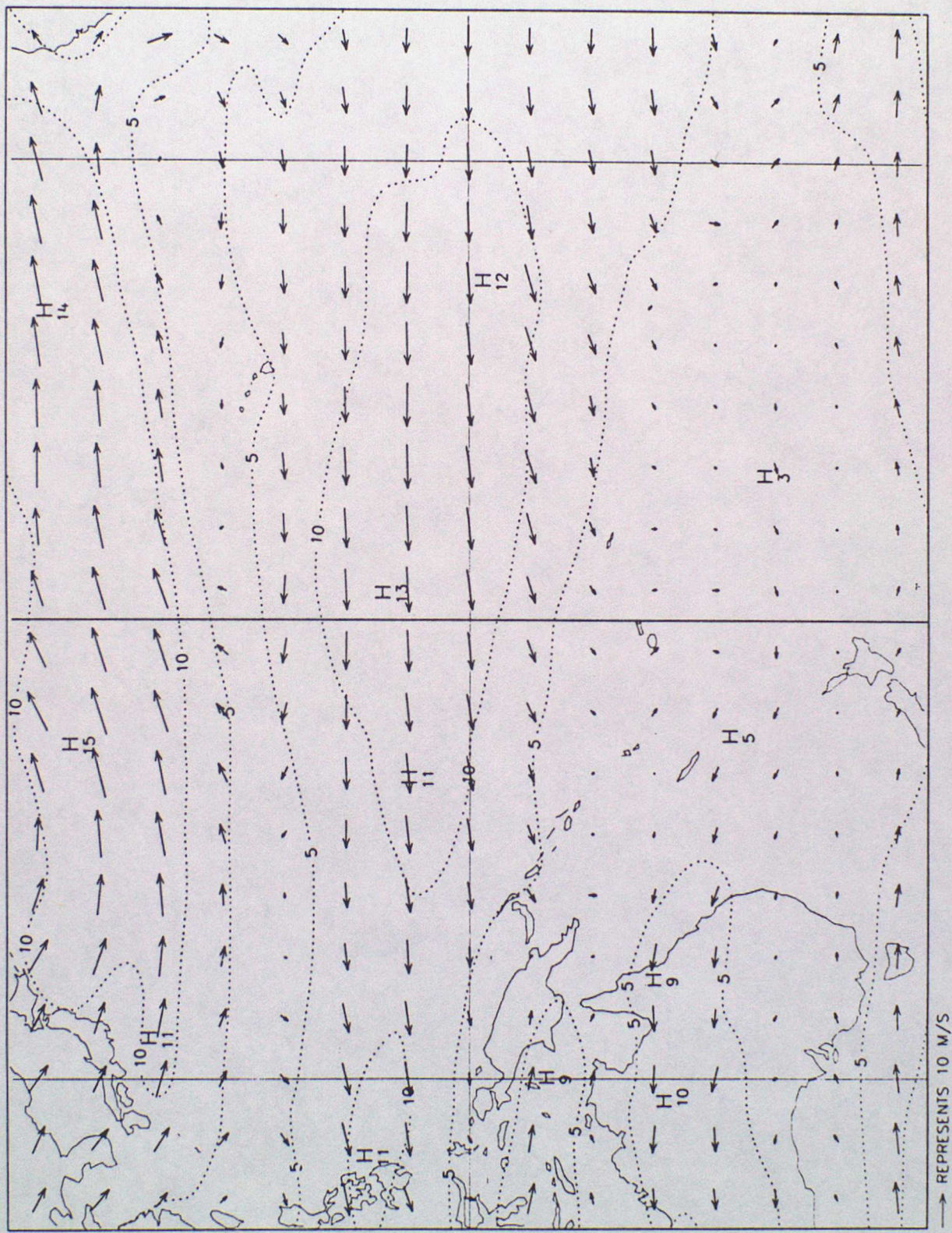
→ REPRESENTS 10 M/S







OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
BETWEEN LONGS. 120 E - 120 W  
850 MBS.

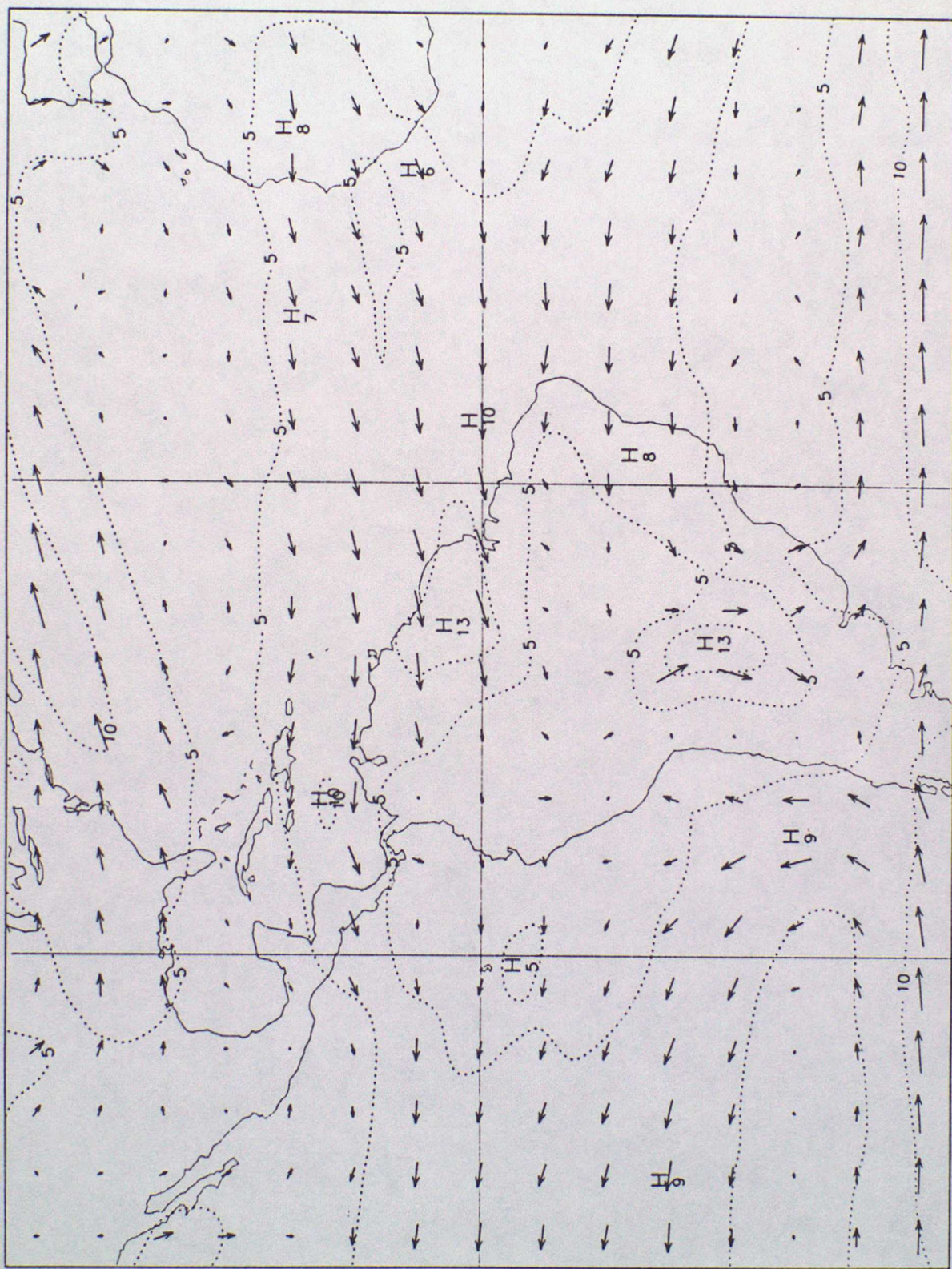








OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
850 MBS.  
BETWEEN LONGS. 120 W - 0 W



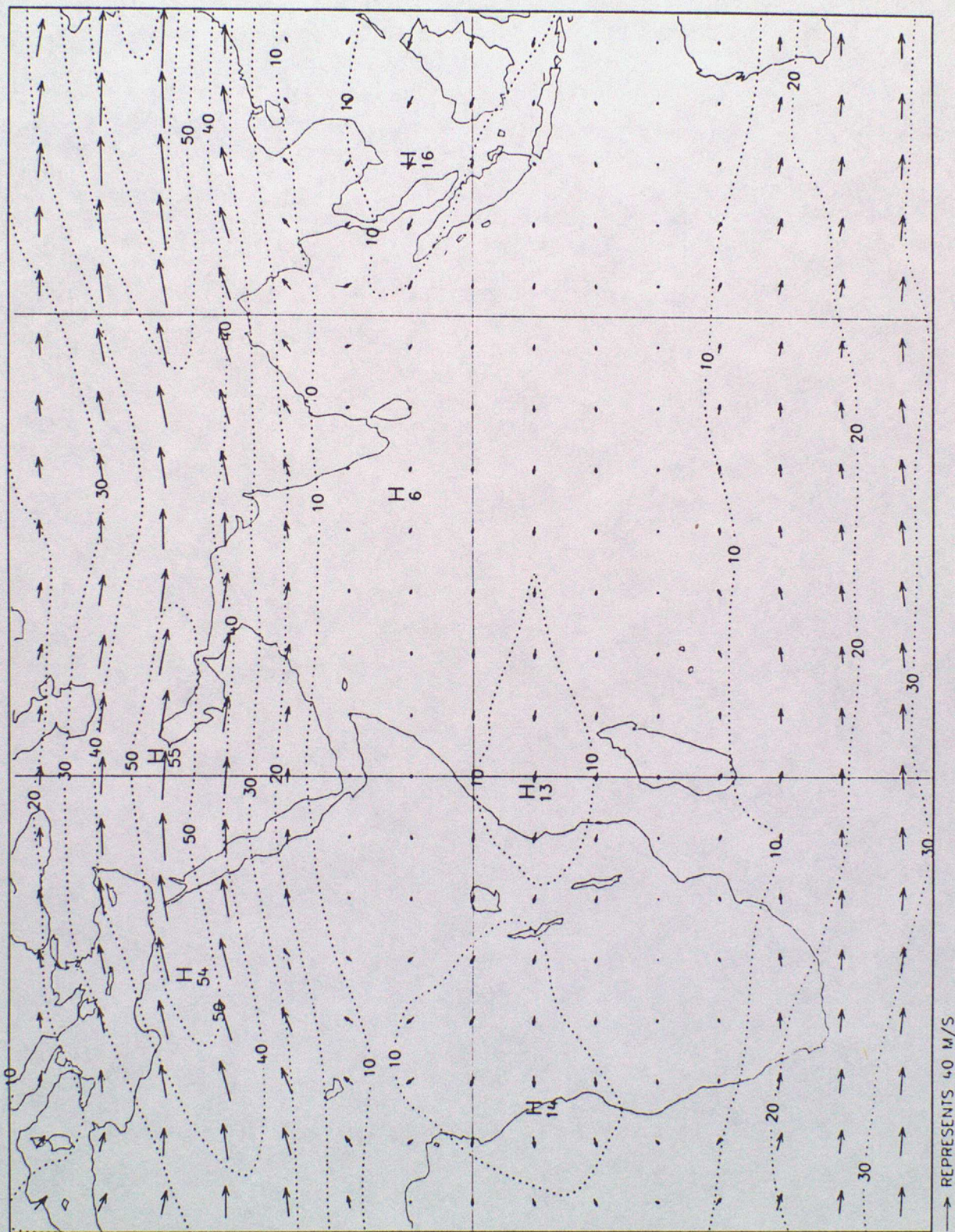
→ REPRESENTS 10 M/S







OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
250 MBS. BETWEEN LONGS. 0 E - 120 E

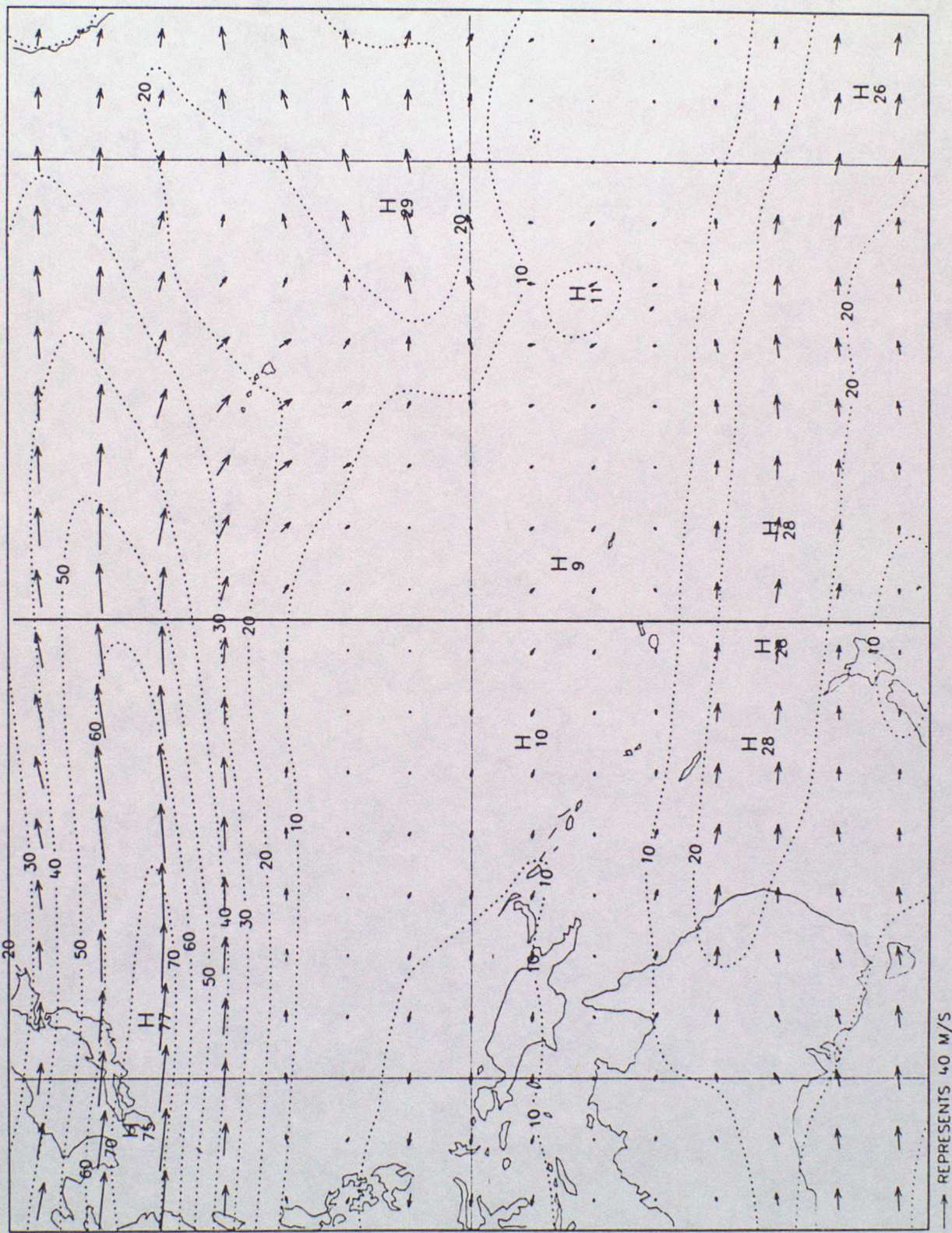








OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 250 MBS.  
 BETWEEN LONGS. 120 E - 120 W



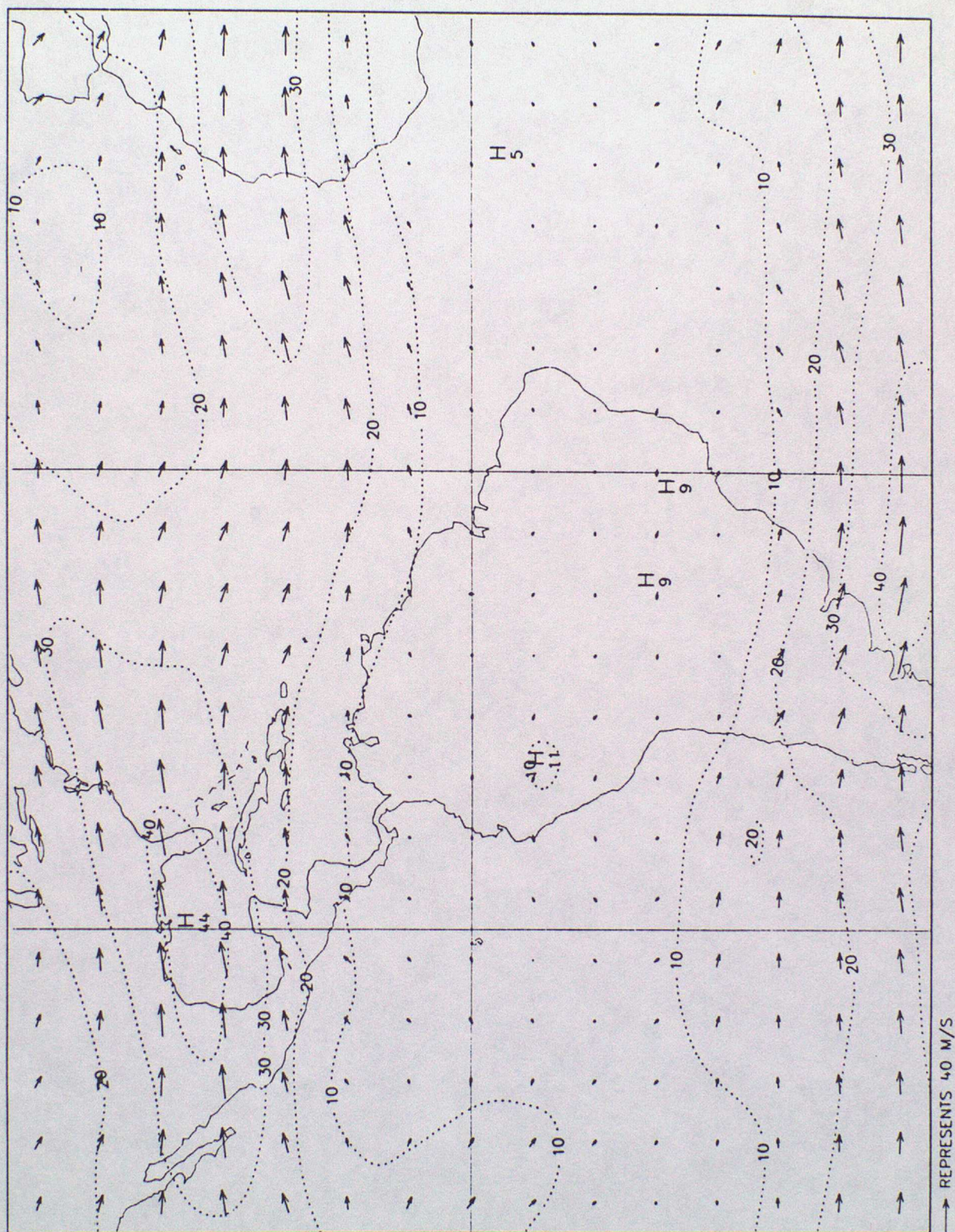
→ REPRESENTS 40 M/S







OPERATIONAL ARCHIVE MEANS. FEBRUARY 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/2/1984 DAY 32 TO 12Z ON 29/2/1984 DAY 60  
 BETWEEN LONGS. 120 W - 0 W  
 250 MBS.









**DECEMBER/JANUARY/FEBRUARY**  
**1983/84**

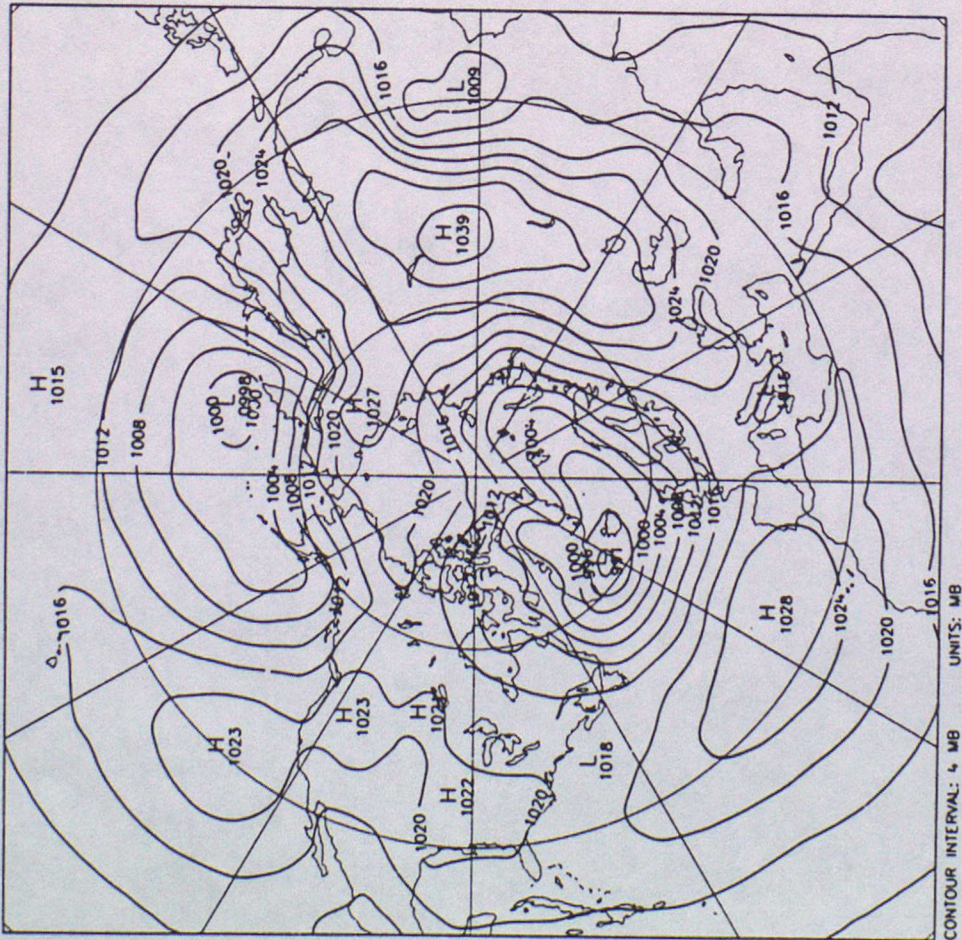






OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
PMSL

AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
LEVEL: SEA LEVEL

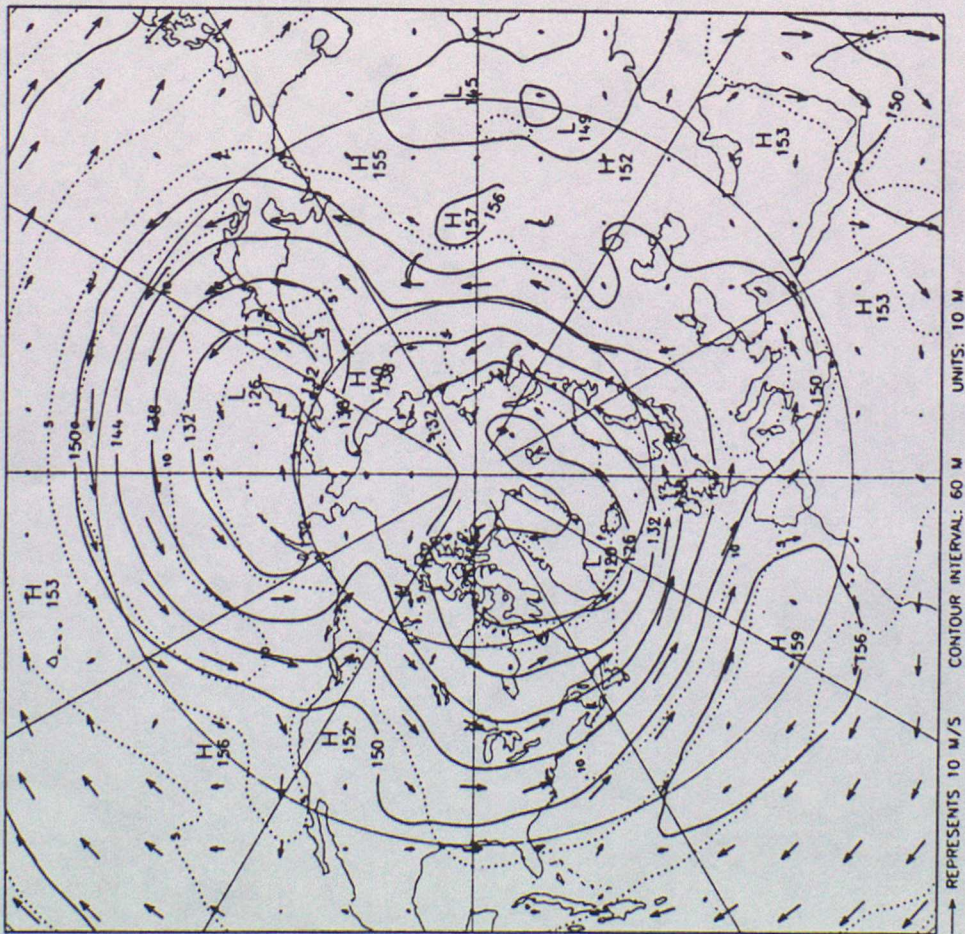




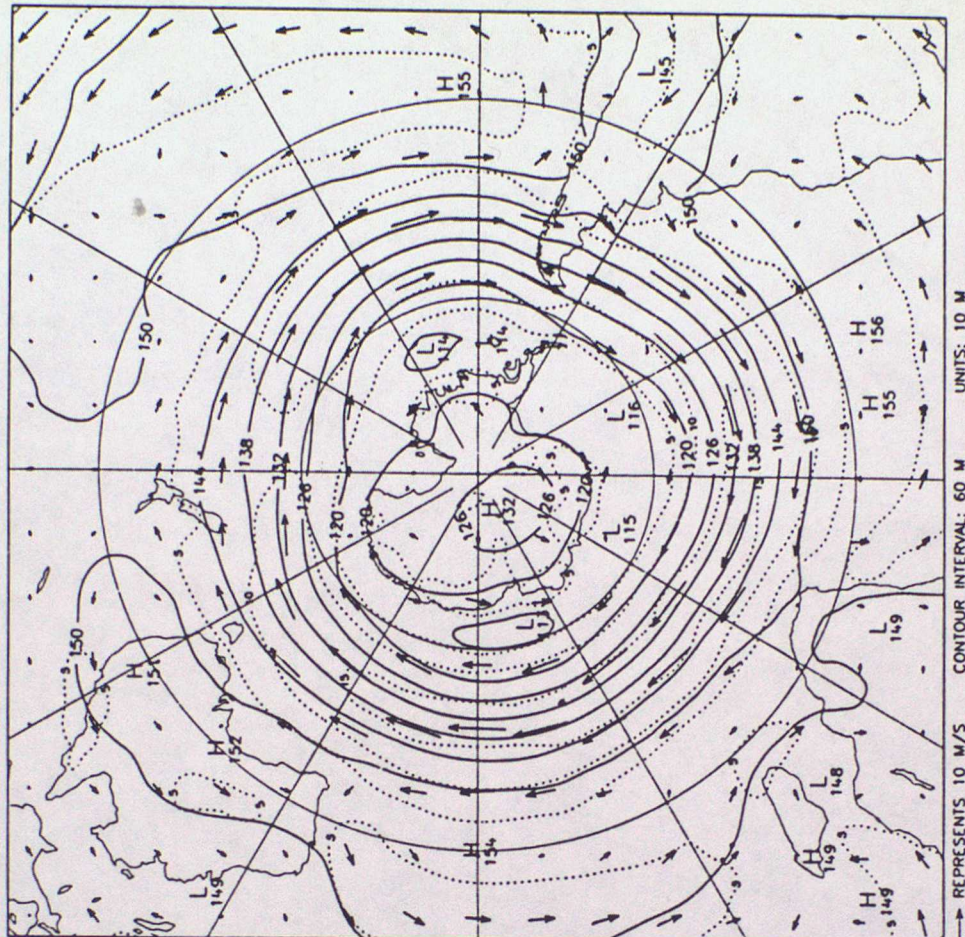




OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 850 MB



OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 850 MB

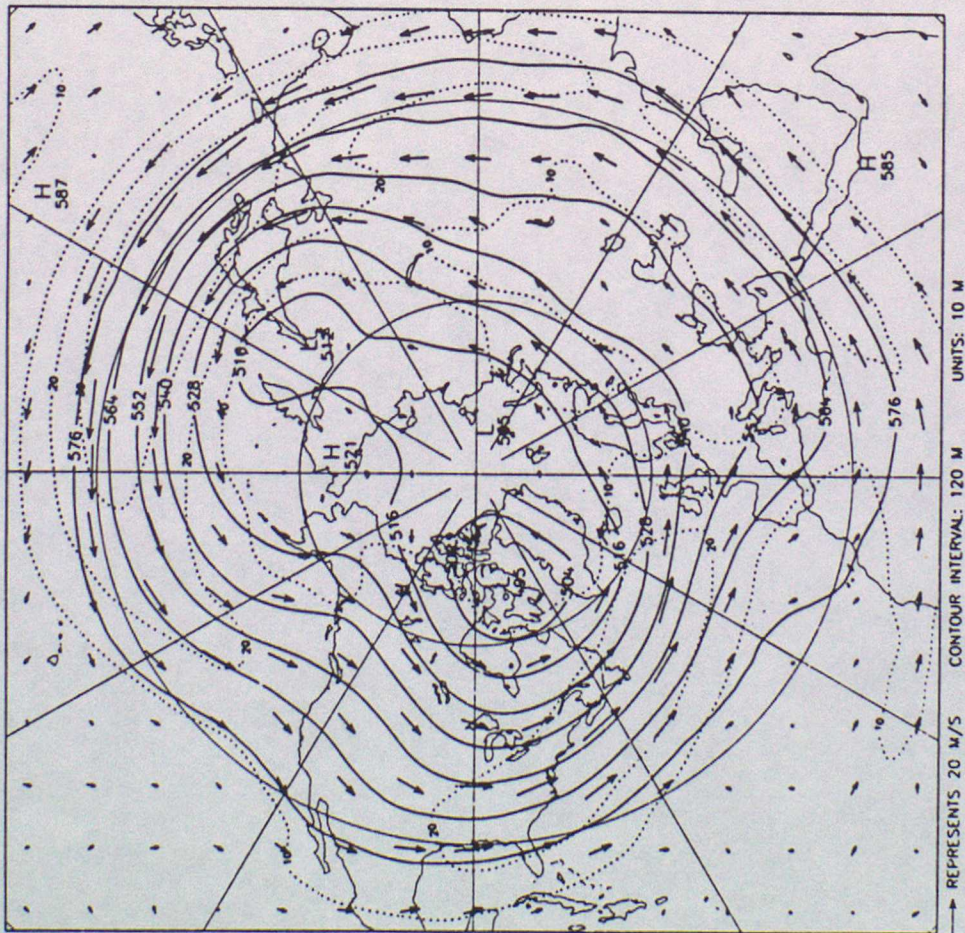




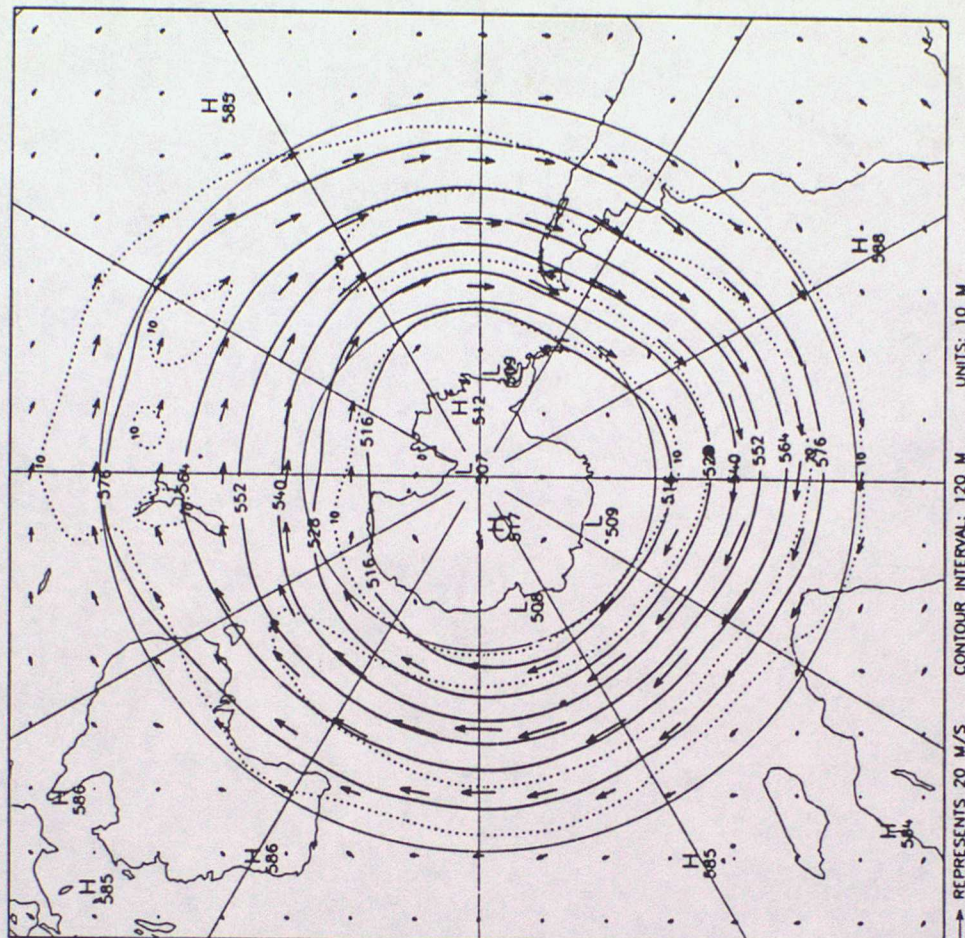




OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 500 MB



OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 500 MB

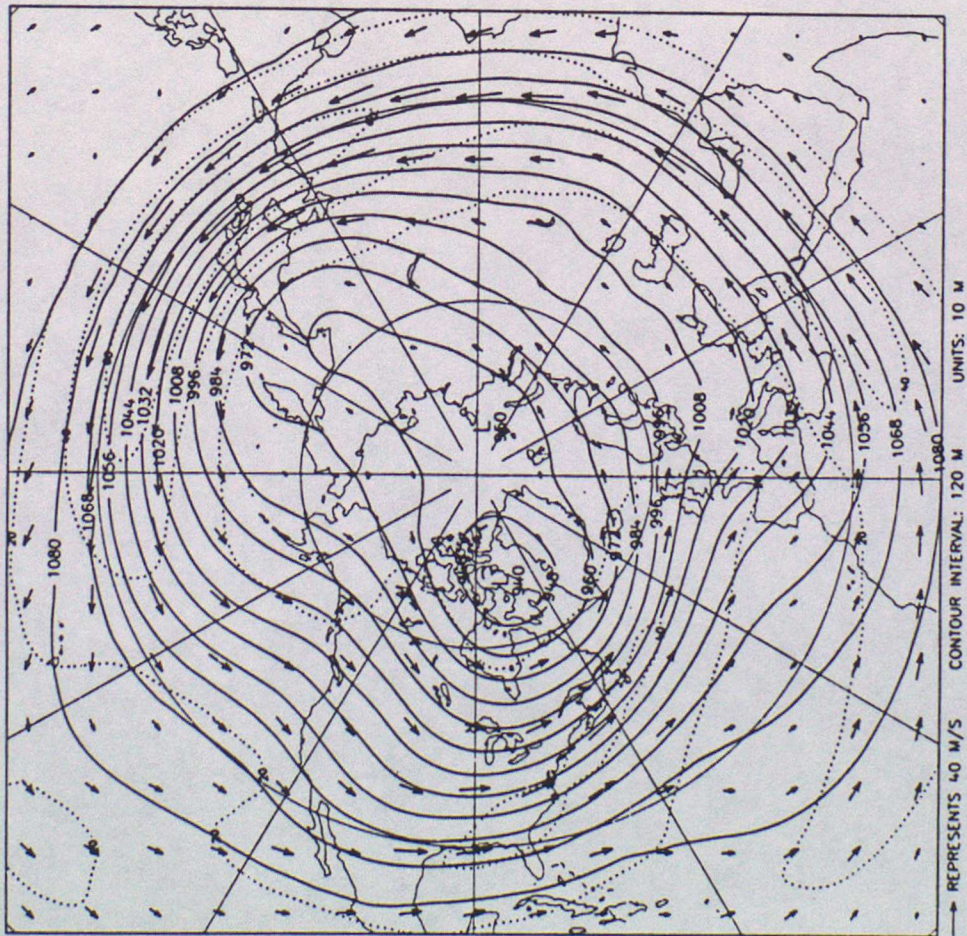




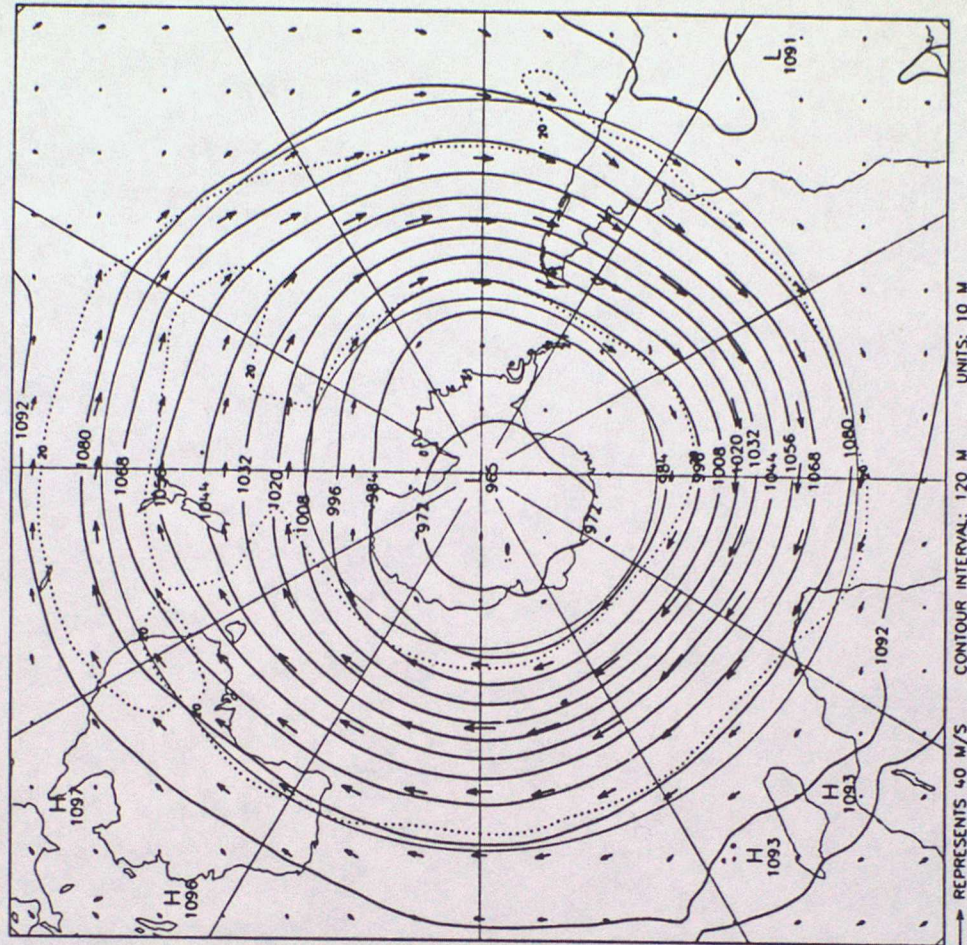




OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 250 MB



OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 250 MB

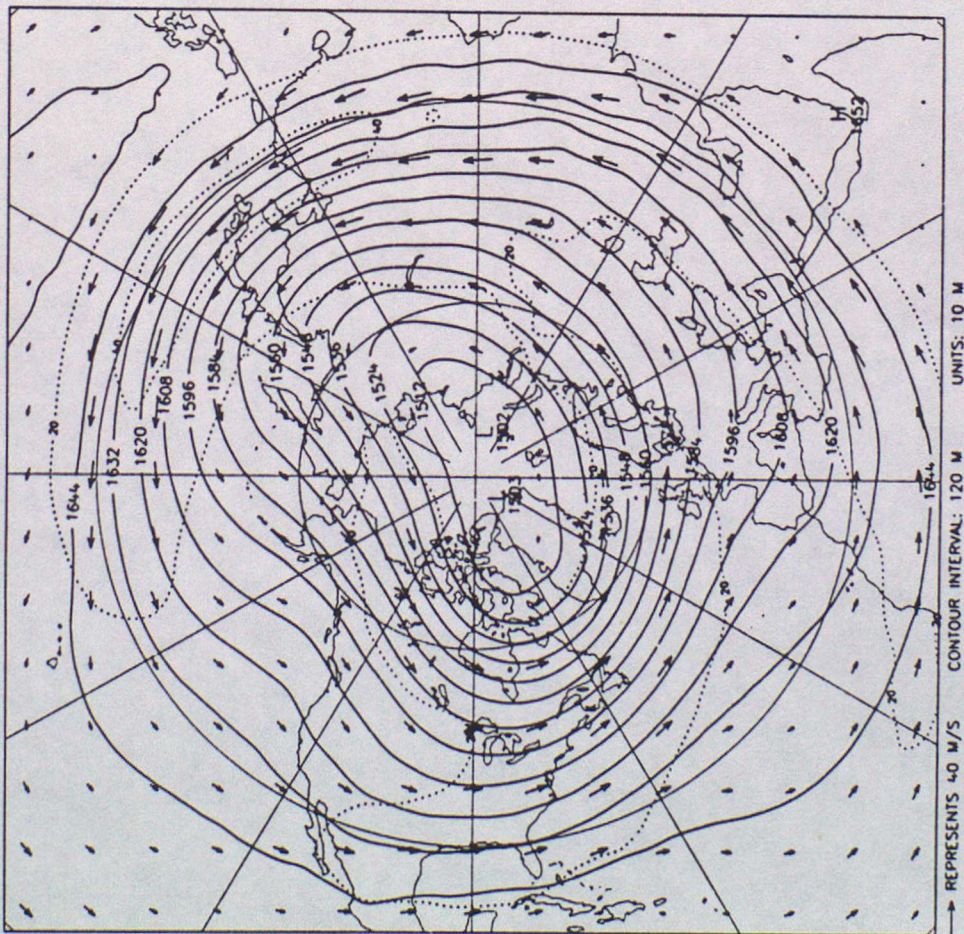




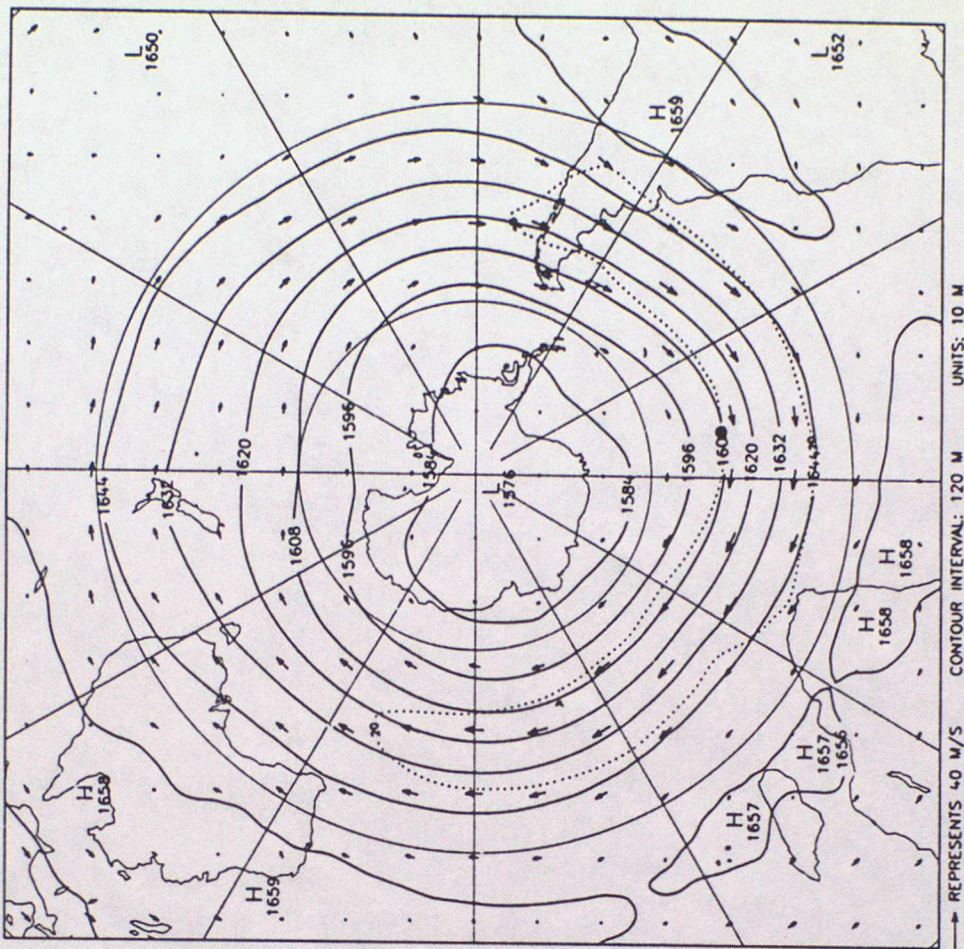




OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 100 MB



OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 HEIGHTS, WIND ARROWS AND ISOTACHS.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 LEVEL: 100 MB

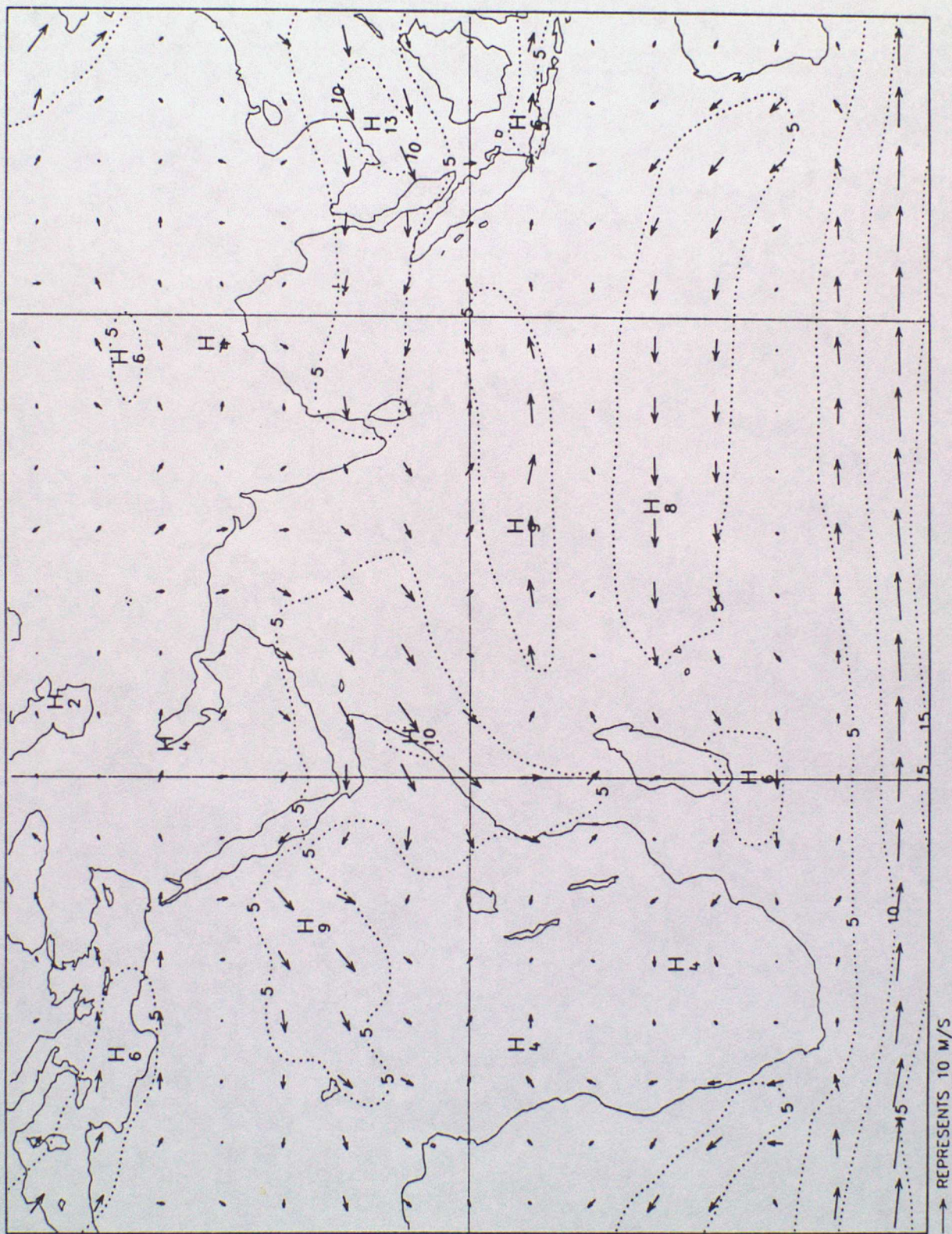








OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.  
AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
850 MBS. BETWEEN LONGS. 0 E - 120 E

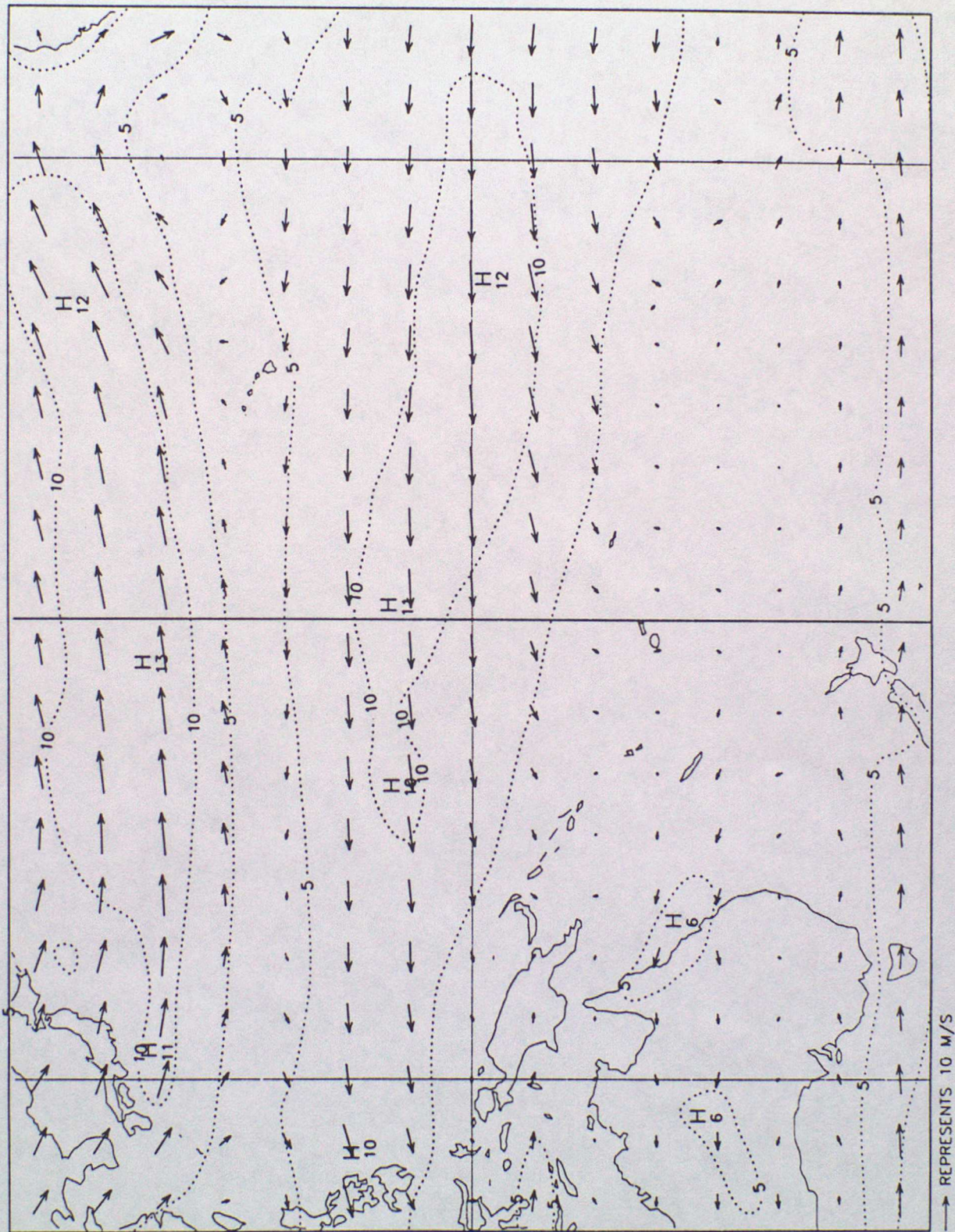








OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 850 MBS.  
 BETWEEN LONGS. 120 E - 120 W

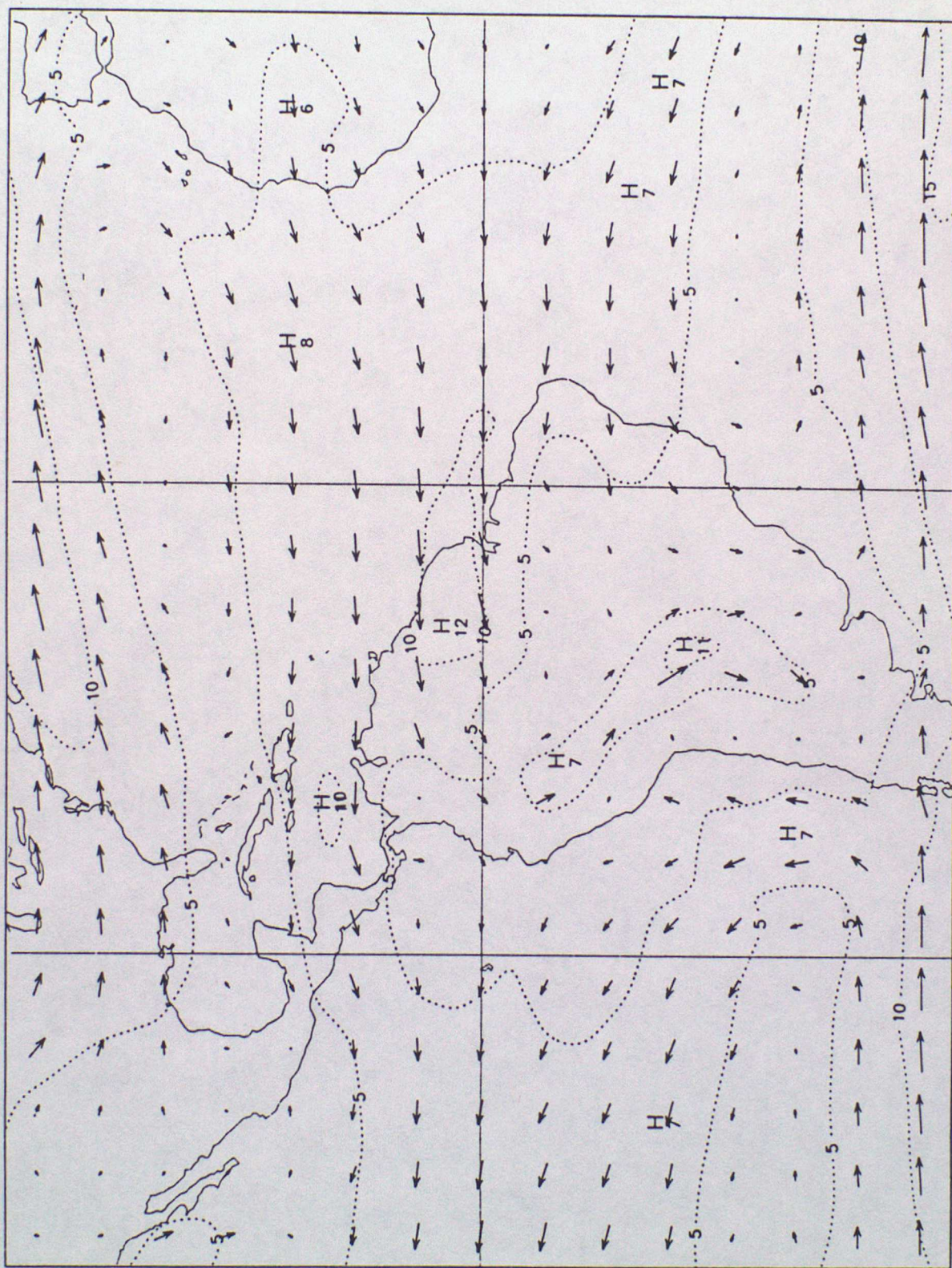








OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 850 MBS.  
 BETWEEN LONGS. 120 W - 0 W



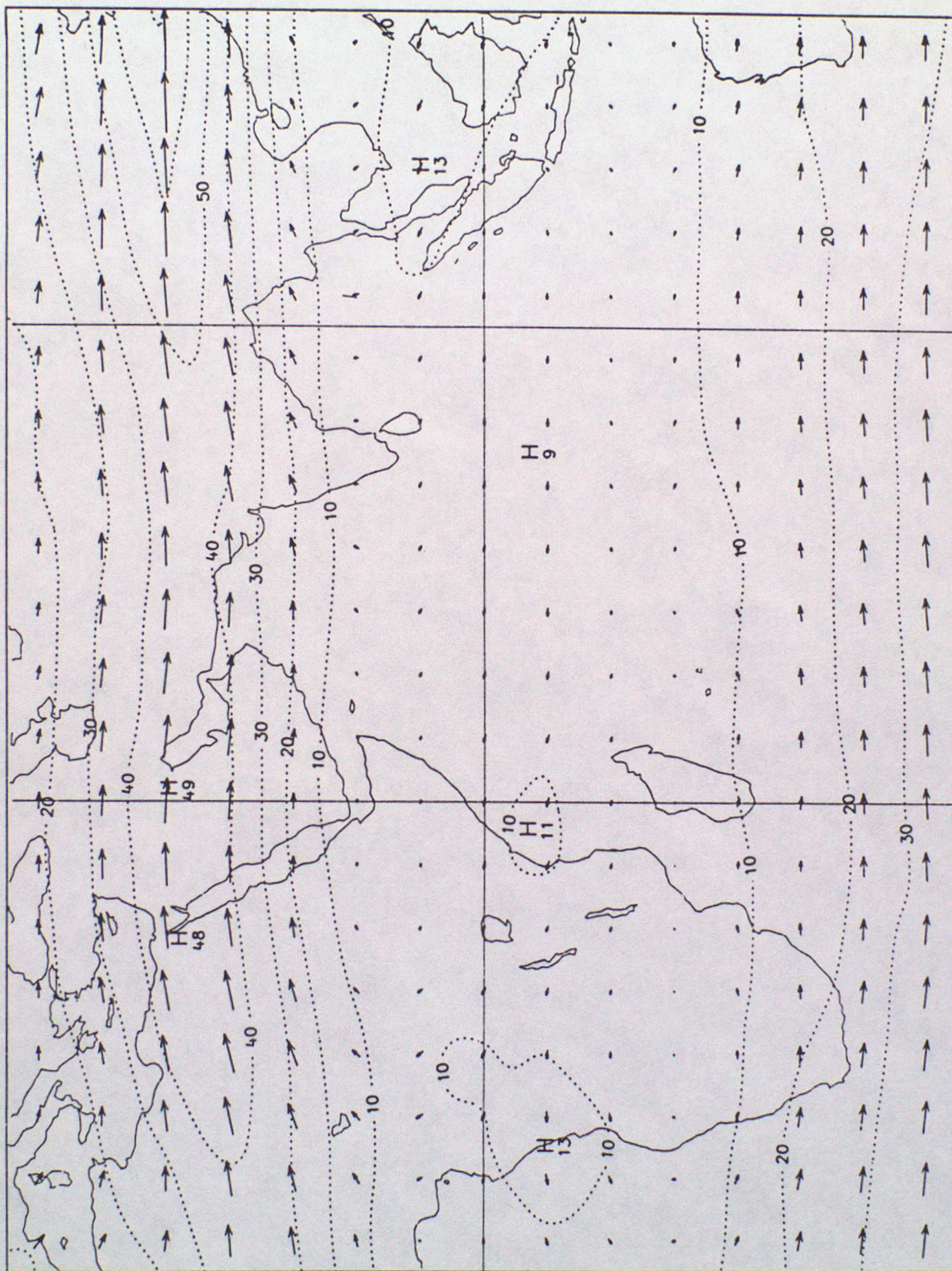
→ REPRESENTS 10 M/S







OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 250 MBS.  
 BETWEEN LONGS. 0 E - 120 E



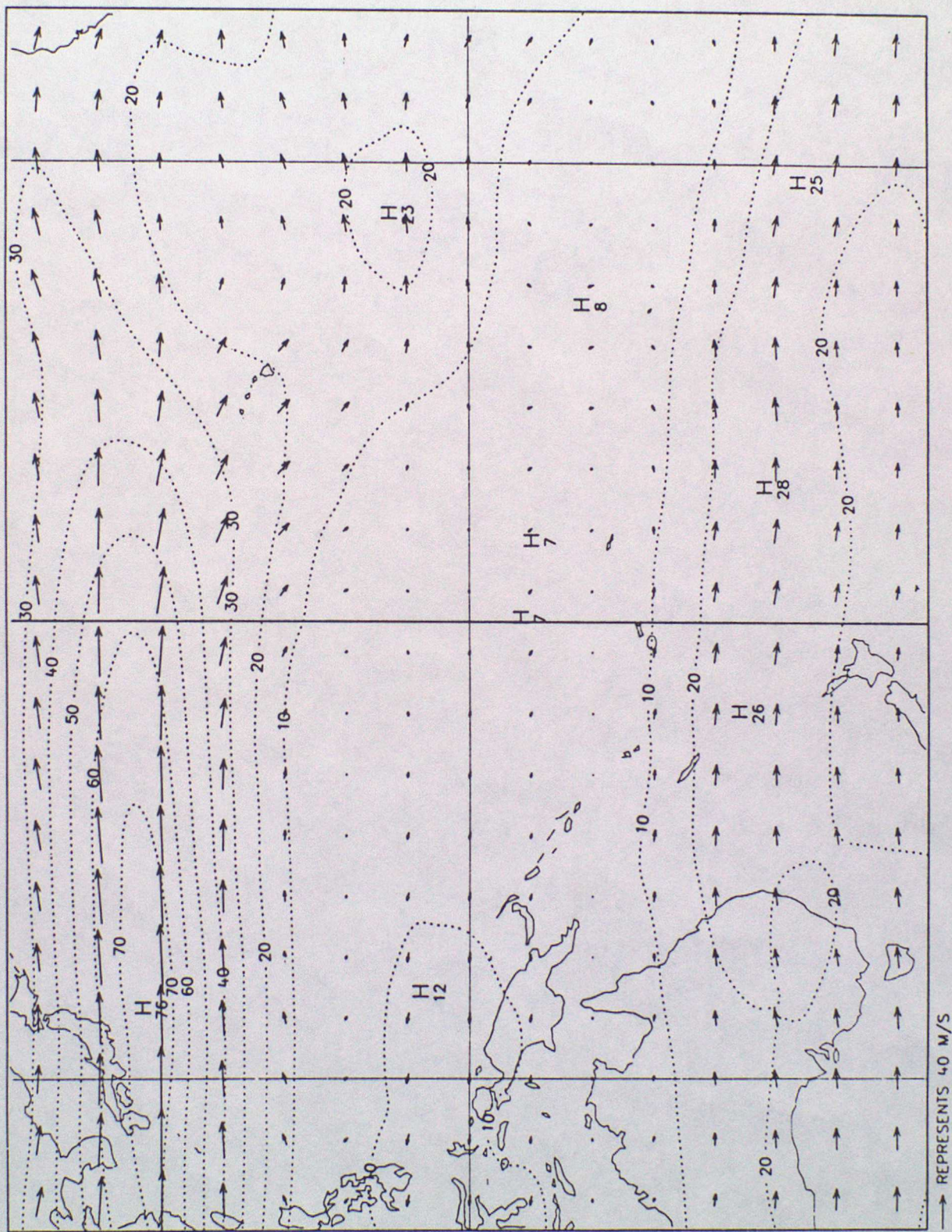
→ REPRESENTS 40 M/S







OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 BETWEEN LONGS. 120 E - 120 W  
 250 MBS.









OPERATIONAL ARCHIVE MEANS. DEC/JAN/FEB 1984  
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.  
 AVERAGE FROM 0Z ON 1/12/1983 DAY 335 TO 12Z ON 29/2/1984 DAY 60  
 250 MBS.  
 BETWEEN LONGS. 120 W - 0 W

