

METEOROLOGICAL OFFICE

02 FEB 1988

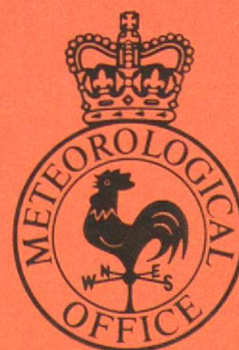
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Monthly and Seasonal Mean Analyses

June, July, August 1986

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Monthly and Seasonal Mean Analyses

**June, July, August
1986**

**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,
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)						

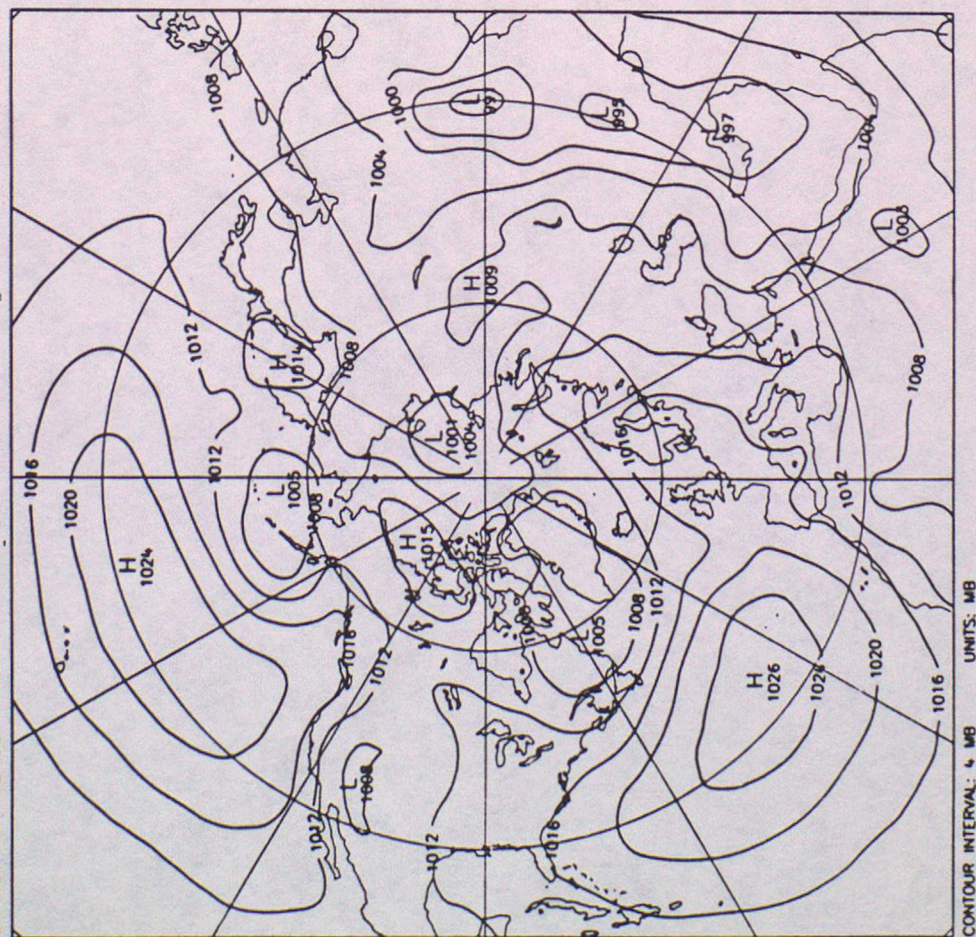
The appropriate tape numbers, file numbers and dataset names can be found by reading the library members on 'M20.NARCHIND' and for recently archived data by reading the dataset 'M20.NARCHLST'. Subroutines from the PP-package are used for accessing the data. Examples are shown in Swinbank (1984).

References

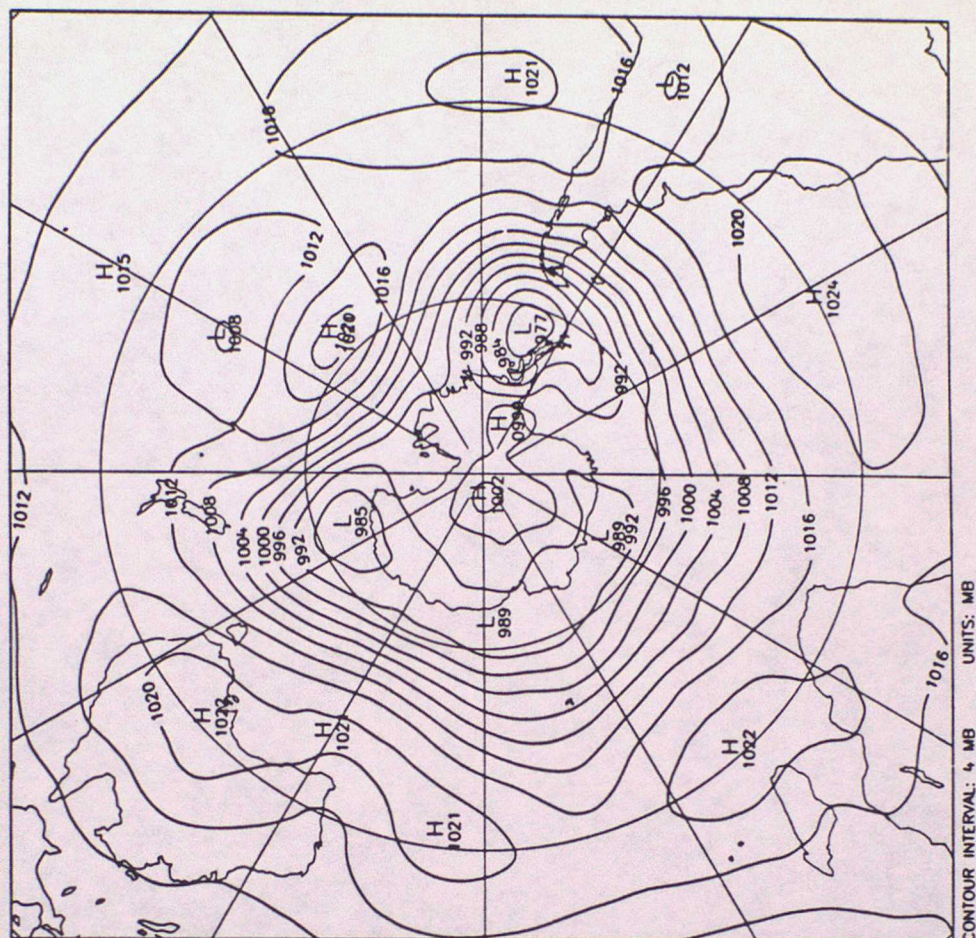
- | | | |
|--------------------------------|------|---|
| Dickinson, A. and Temperton C. | 1984 | The Operational Numerical Weather Prediction Model. Met O 11 Technical Note No. 183. Meteorological Office, Bracknell. |
| Swinbank, R. | 1984 | A system to archive operational analyses for research purposes.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

JUNE
1986

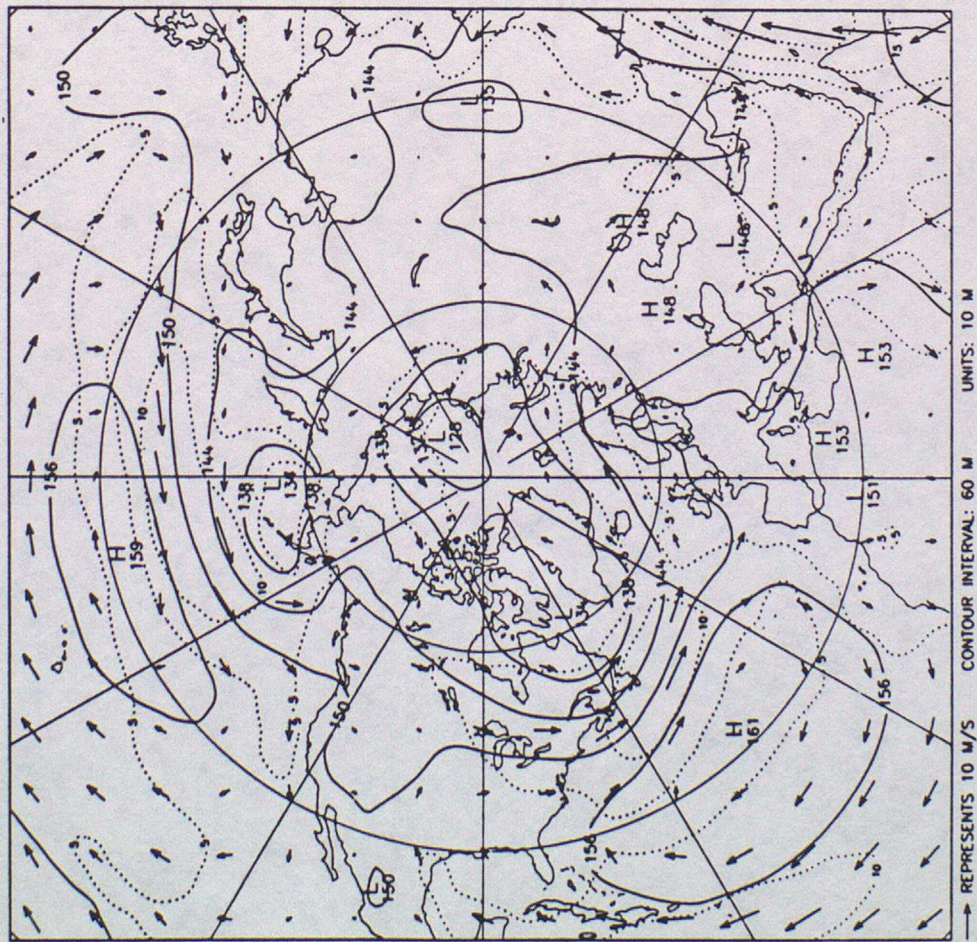
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
LEVEL: SEA LEVEL



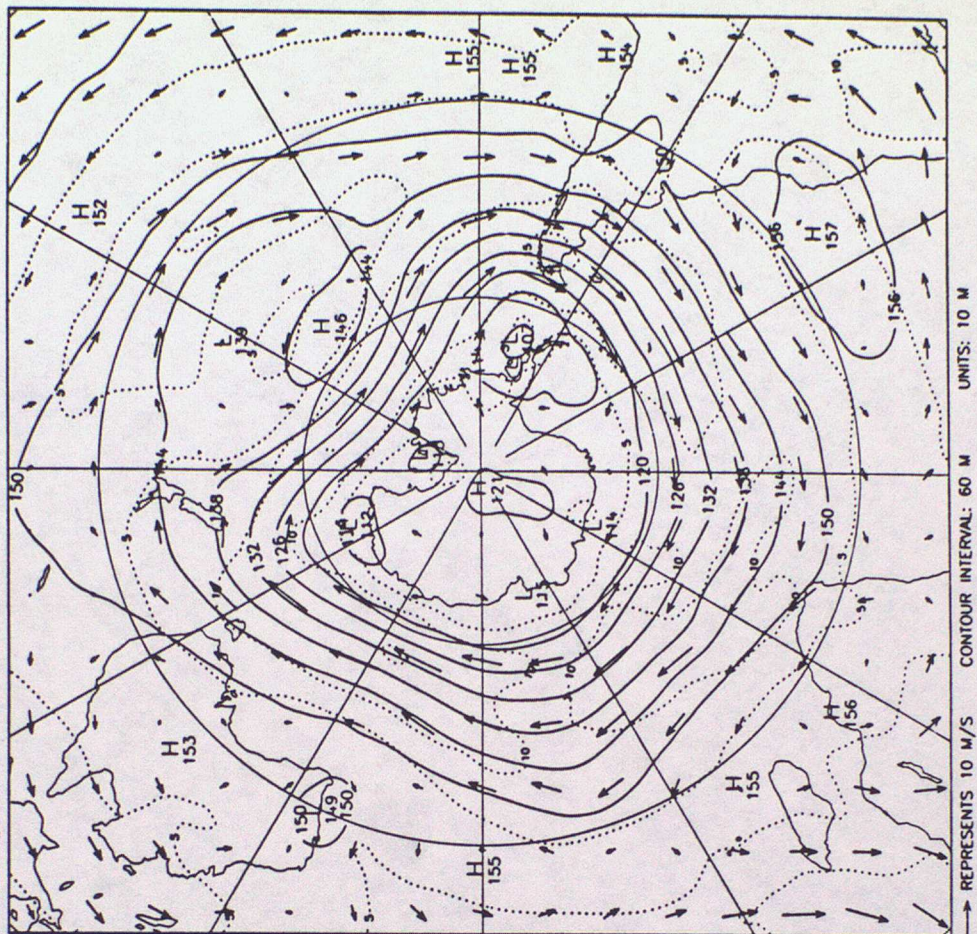
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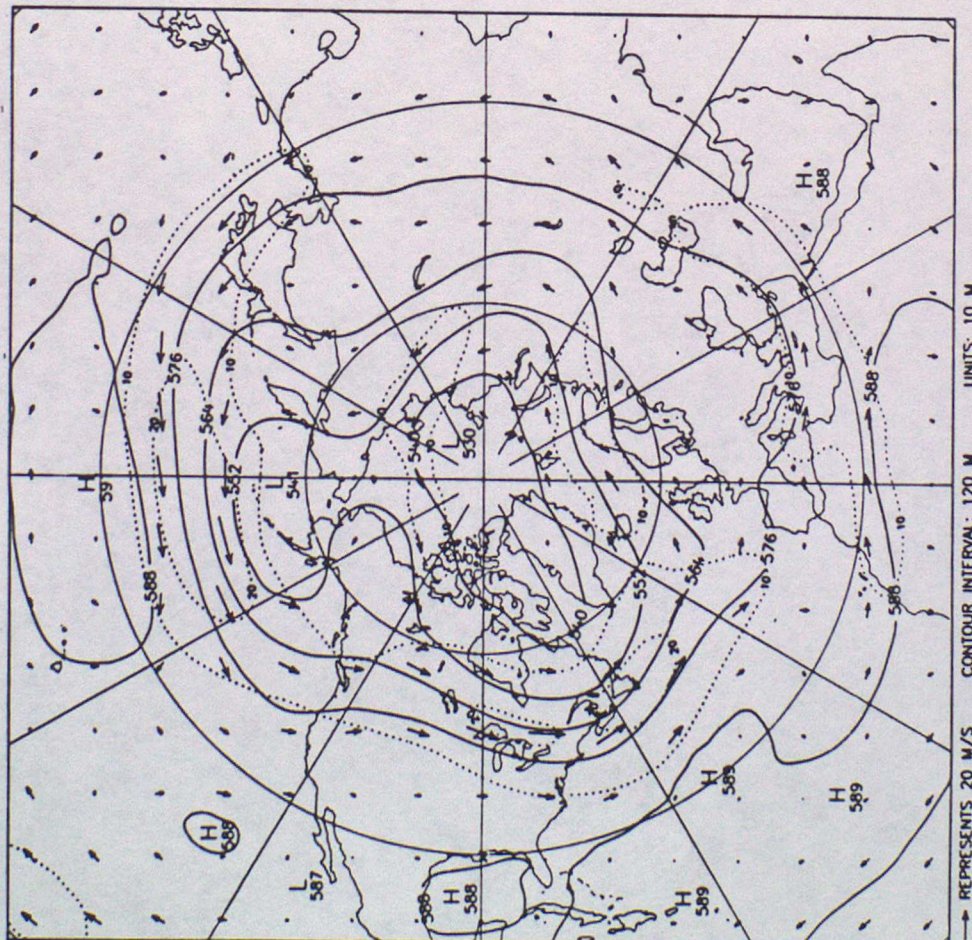
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 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
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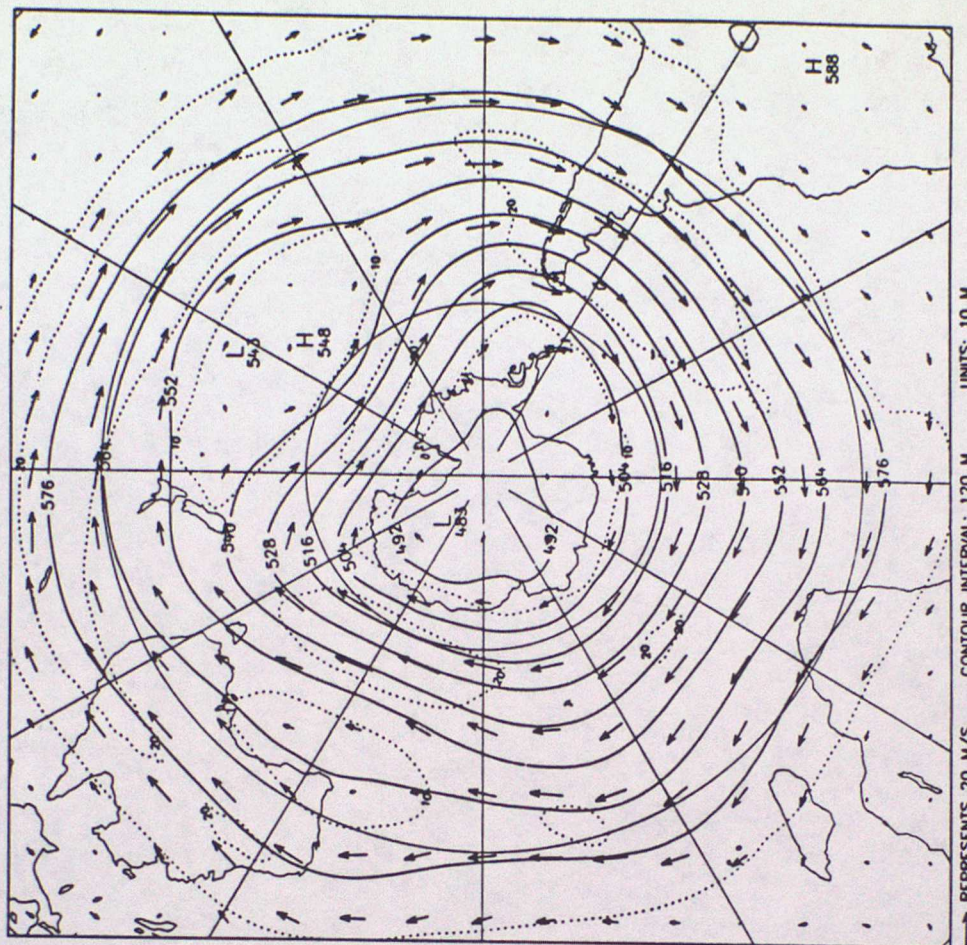
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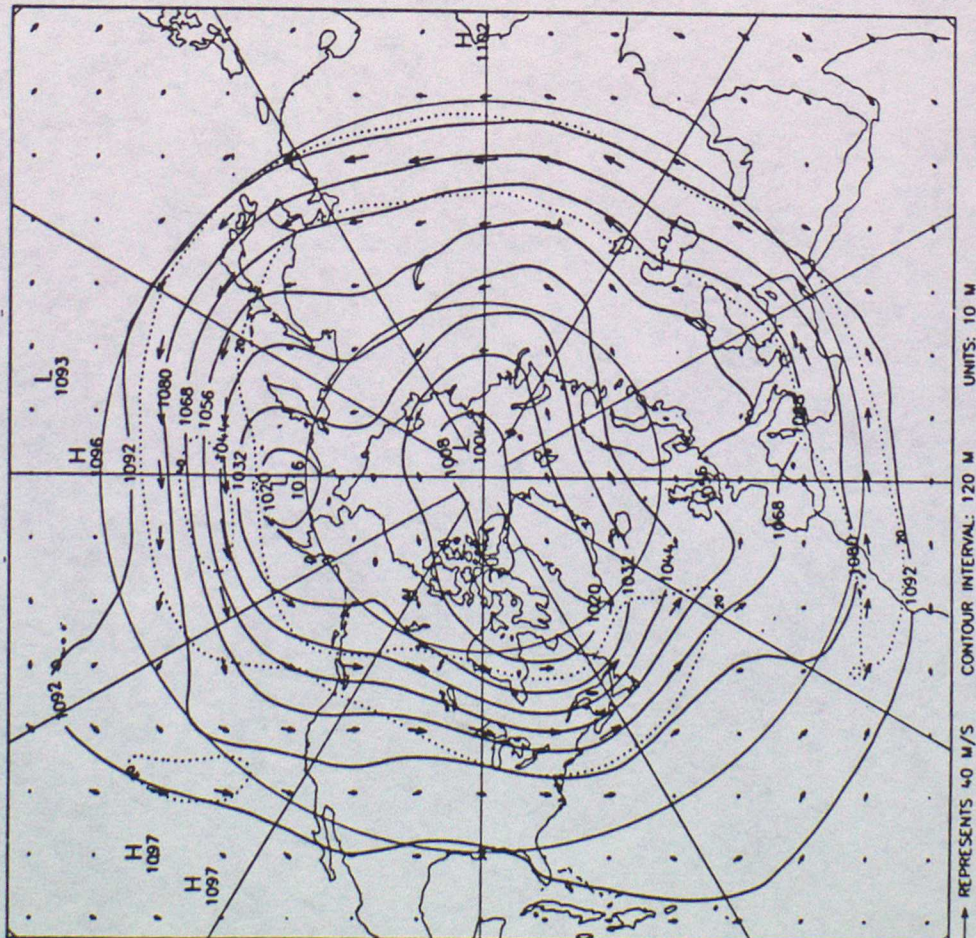
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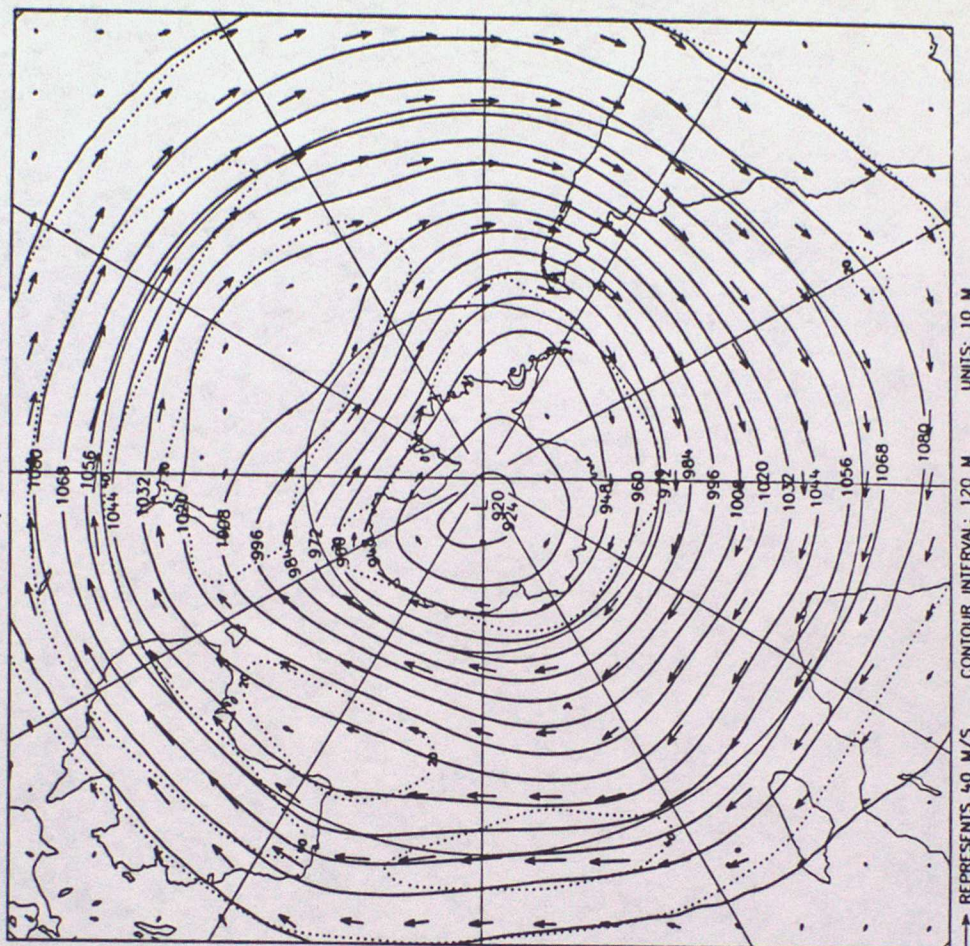
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 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
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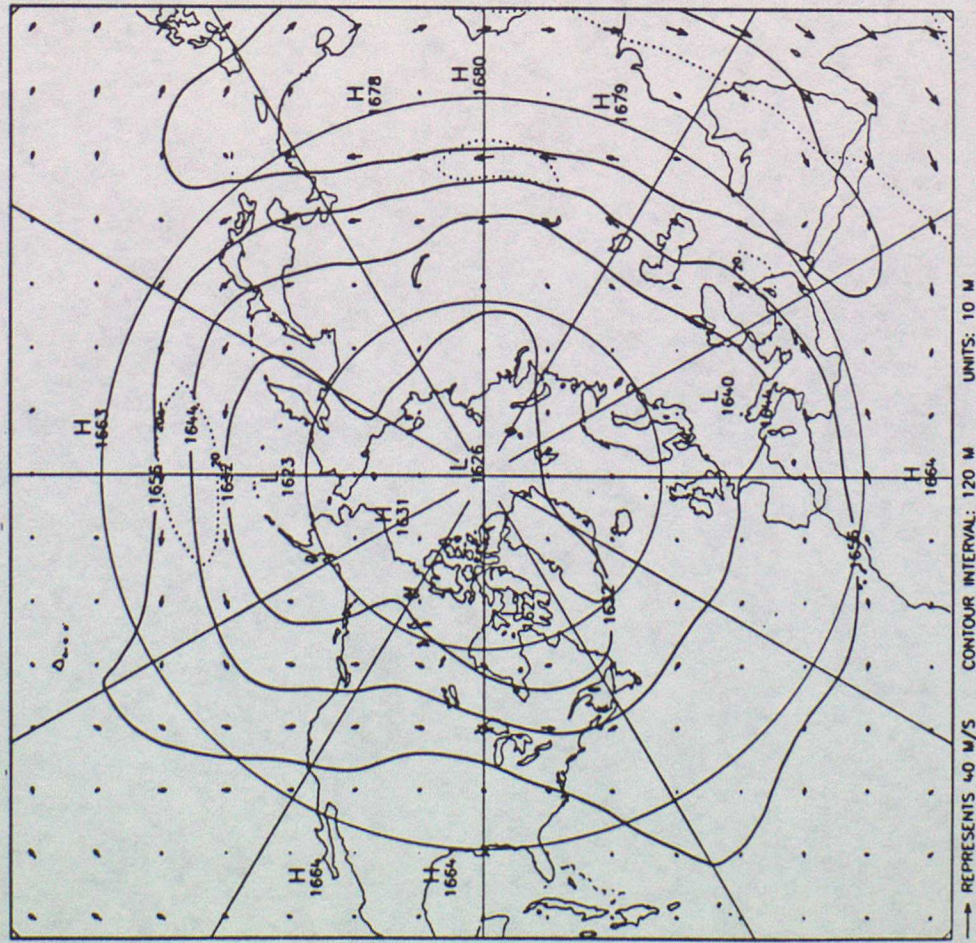
OPERATIONAL ARCHIVE MEANS. JUNE 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
 LEVEL: 250 MB



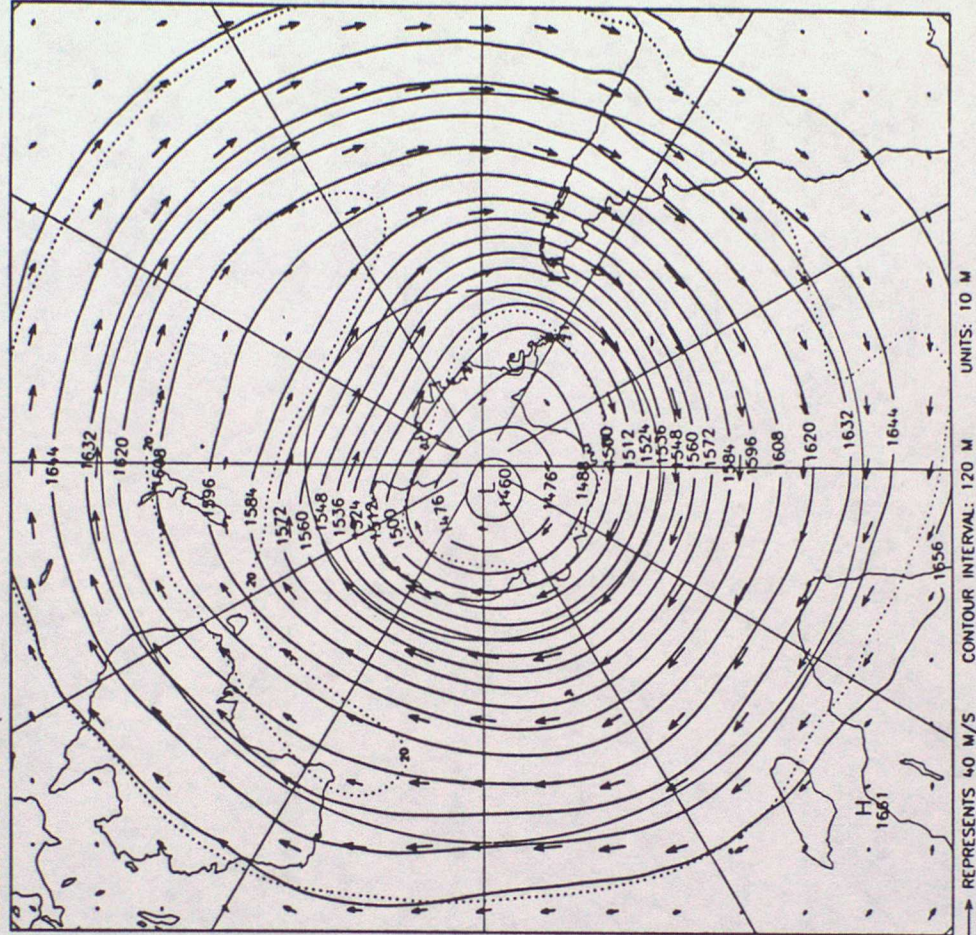
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 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
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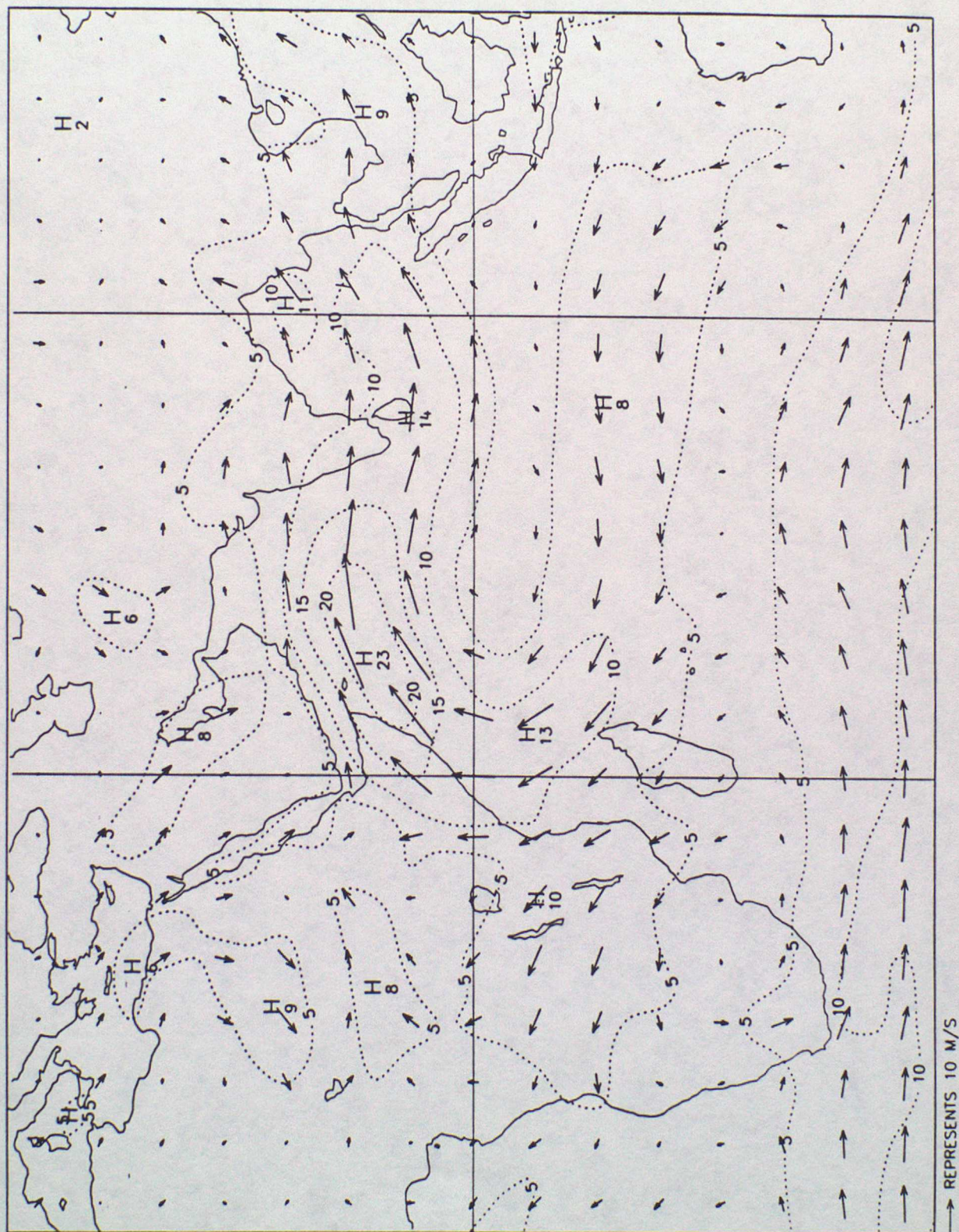
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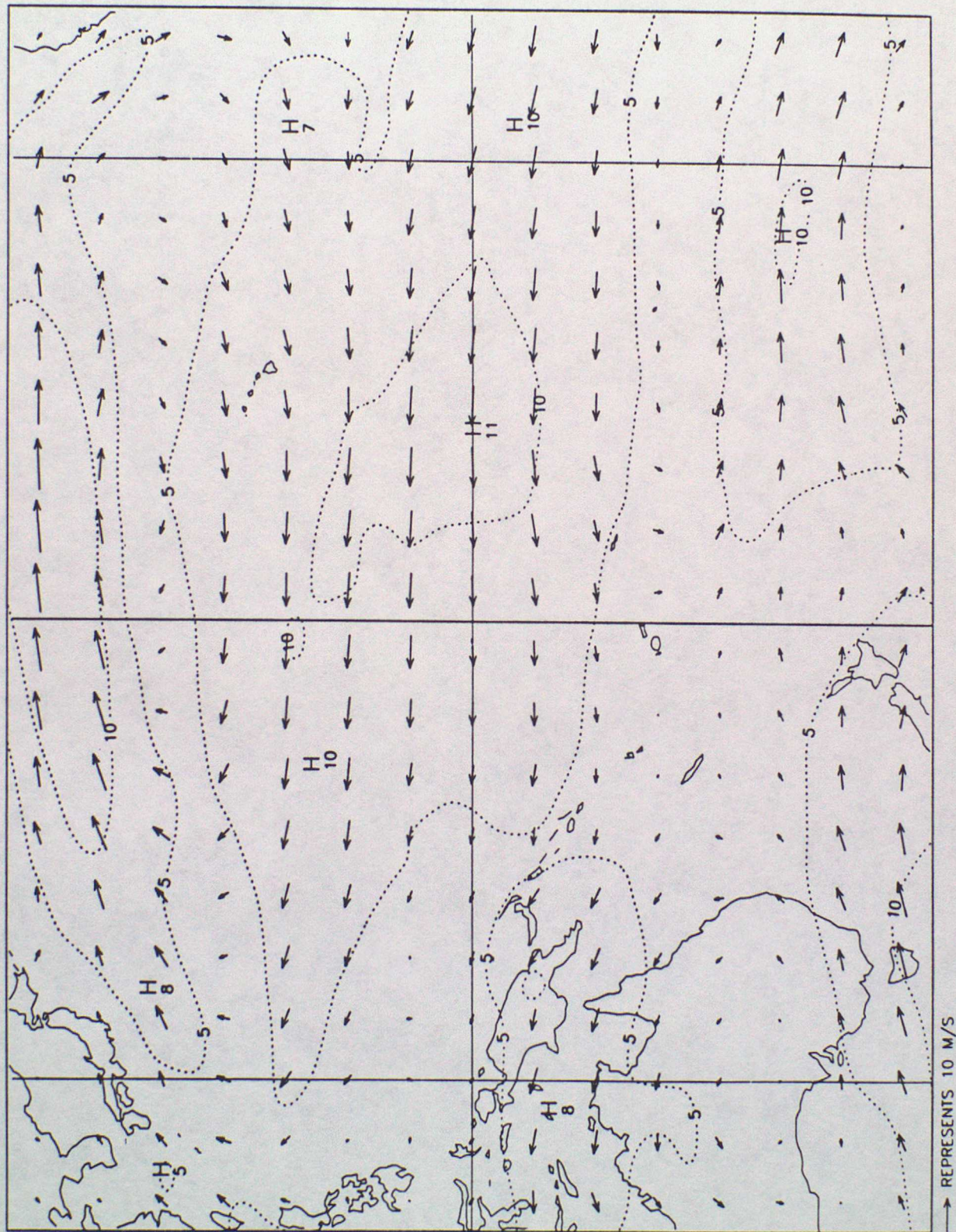
OPERATIONAL ARCHIVE MEANS. JUNE 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
 LEVEL: 100 MB



OPERATIONAL ARCHIVE MEANS. JUNE 1986
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
 850 MBS. BETWEEN LONGS. 0 E - 120 E

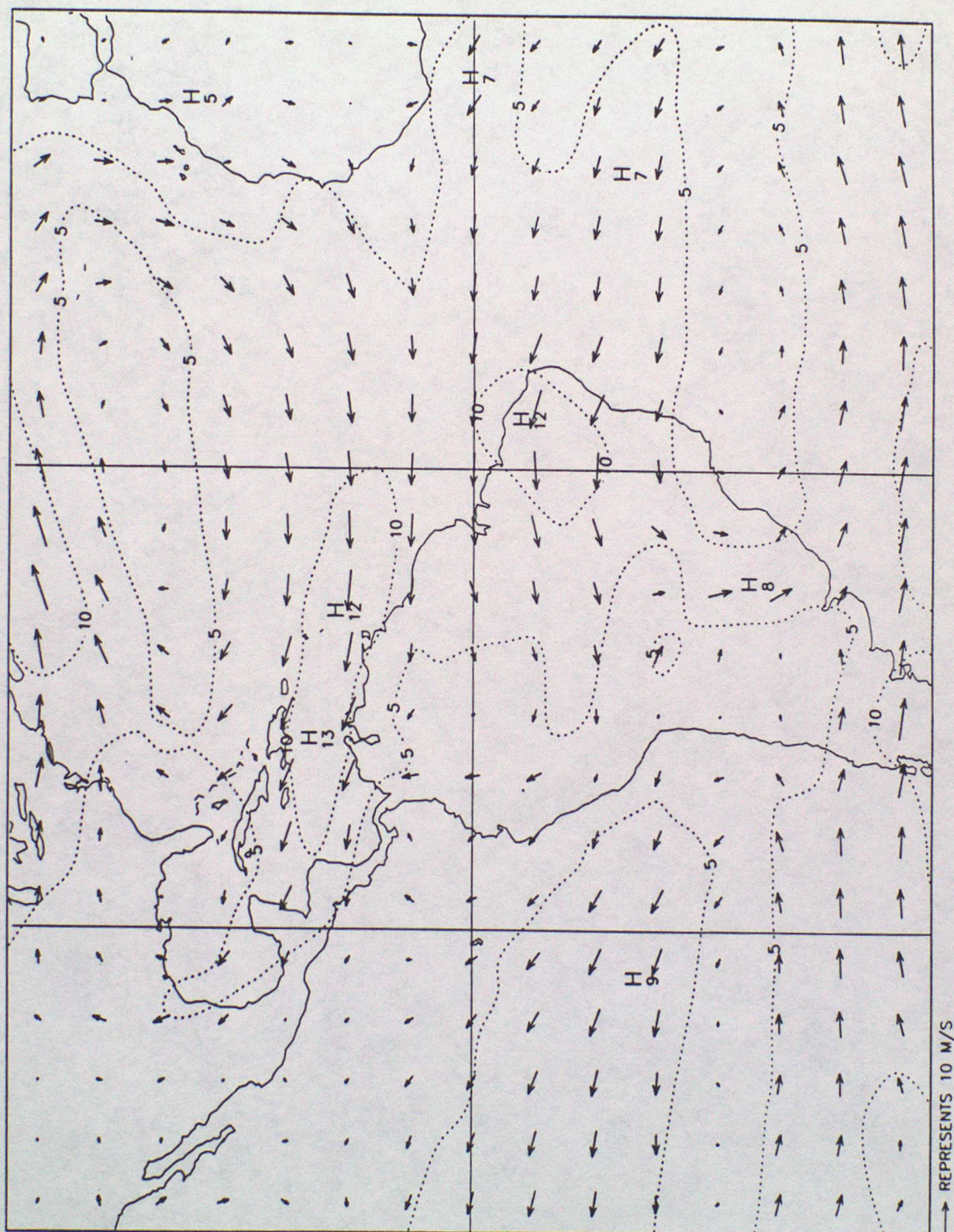


OPERATIONAL ARCHIVE MEANS. JUNE 1986
 WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
 850 MBS.
 BETWEEN LONGS. 120 E - 120 W



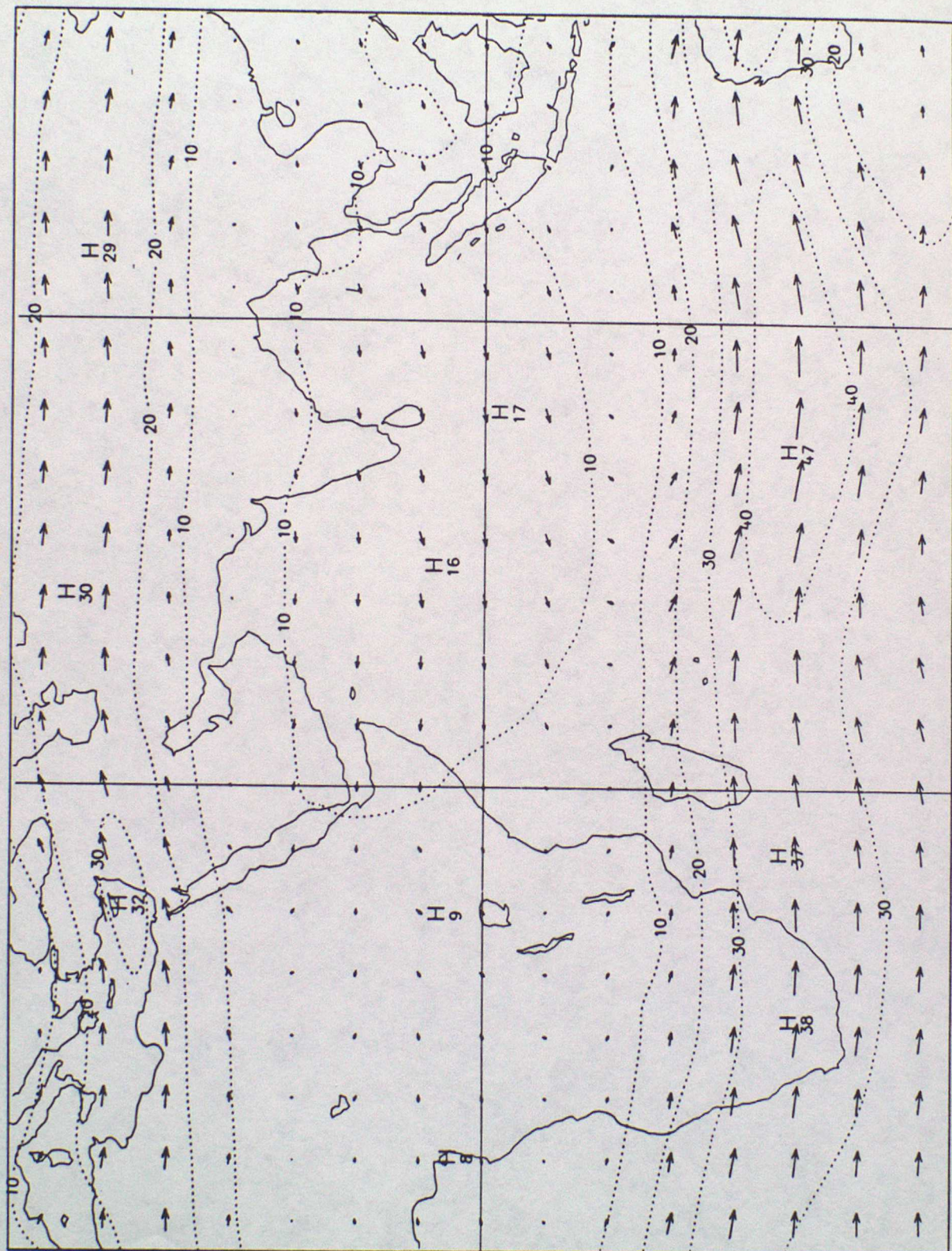
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OPERATIONAL ARCHIVE MEANS. JUNE 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
850 MBS.
BETWEEN LONGS. 120 W - 0 W



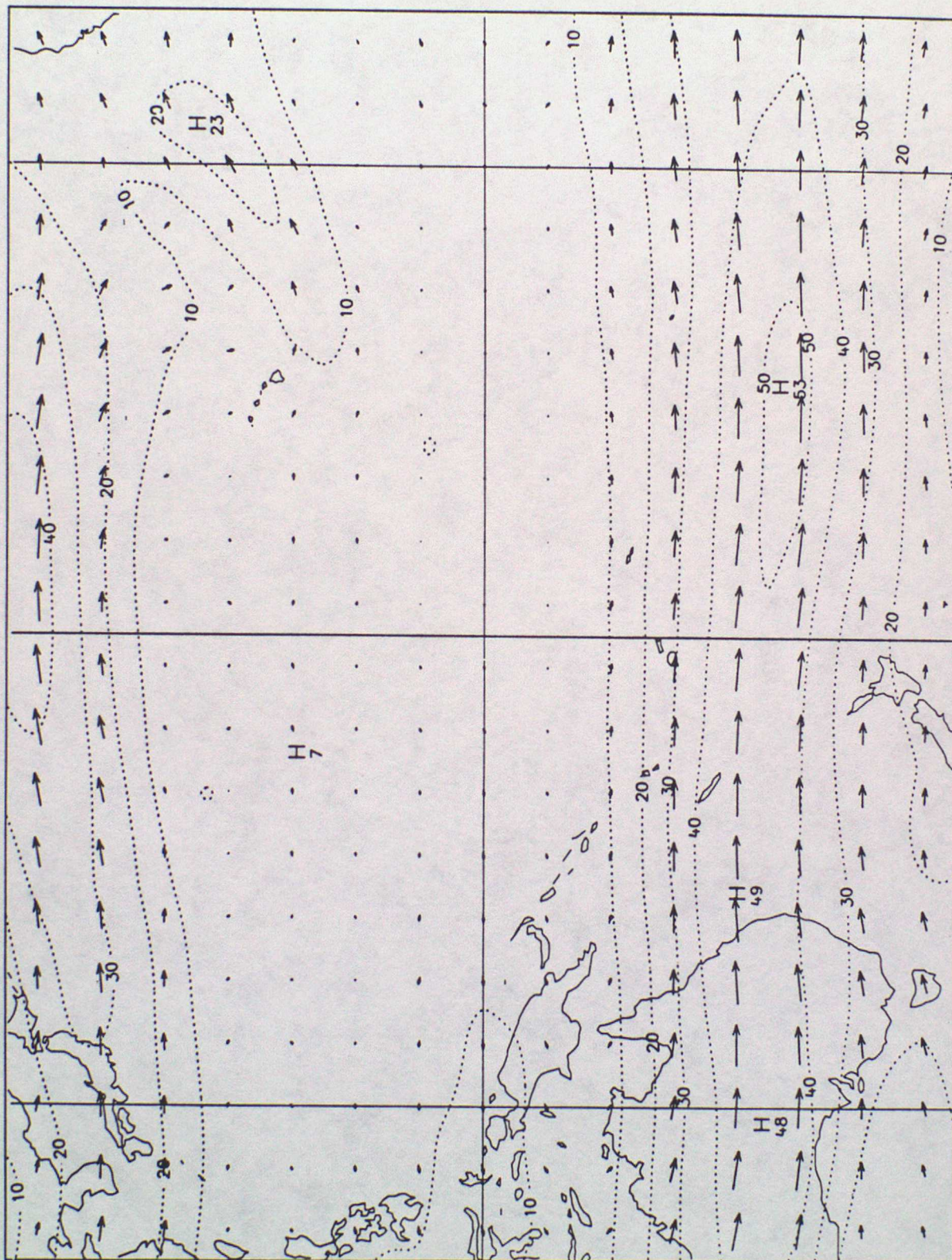
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OPERATIONAL ARCHIVE MEANS. JUNE 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 30/6/1986 DAY 181
250 MBS. BETWEEN LONGS. 0 E - 120 E



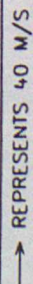
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OPERATIONAL ARCHIVE MEANS. JUNE 1986
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
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 250 MBS. BETWEEN LONGS. 120 E - 120 W



→ REPRESENTS 40 M/S

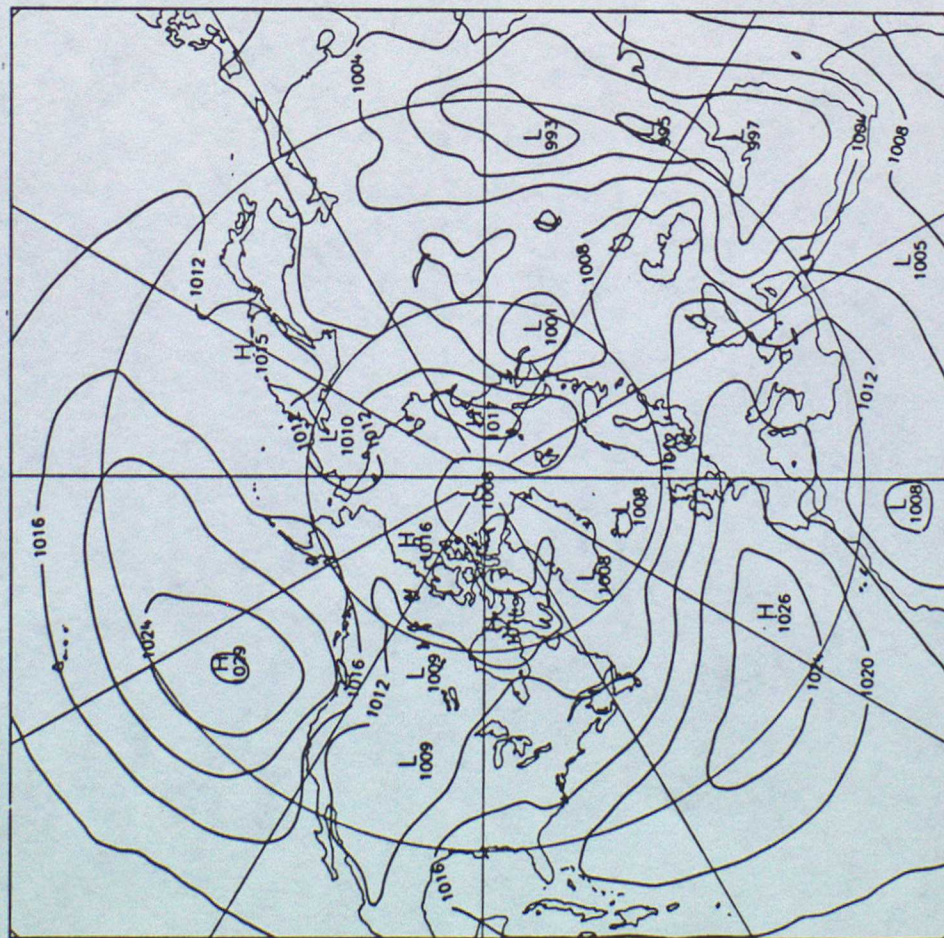
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JULY
1986

OPERATIONAL ARCHIVE MEANS. JULY 1986
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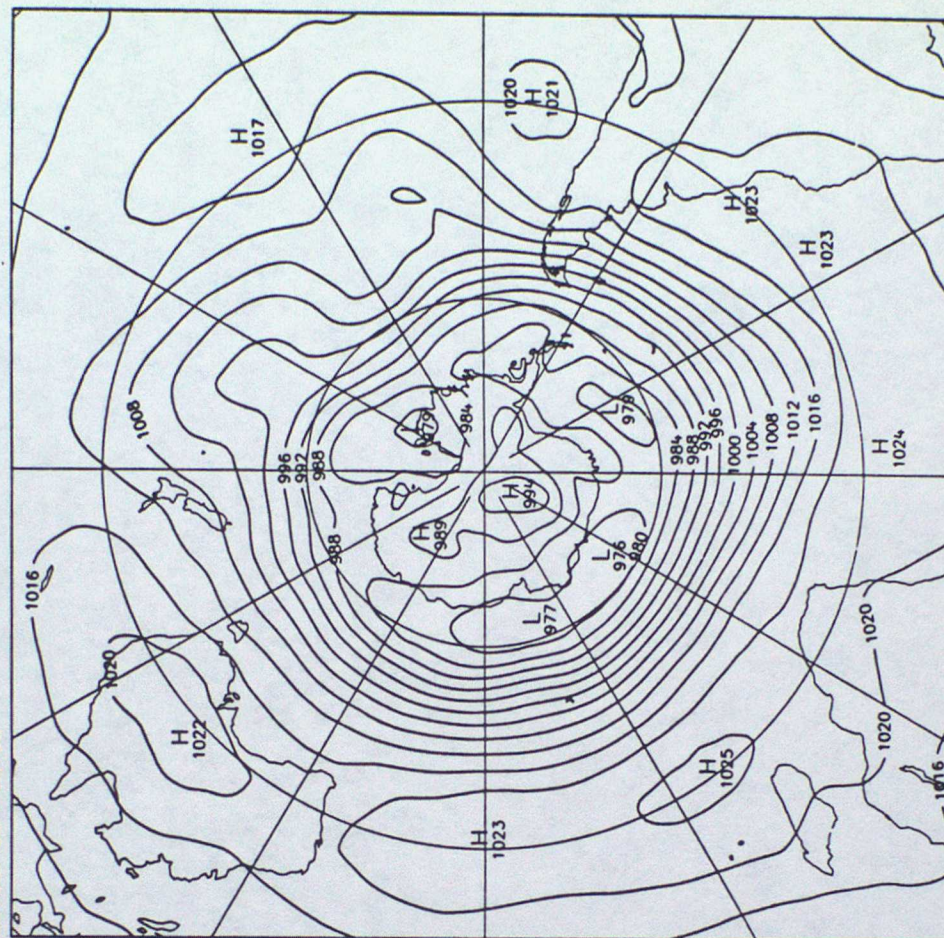
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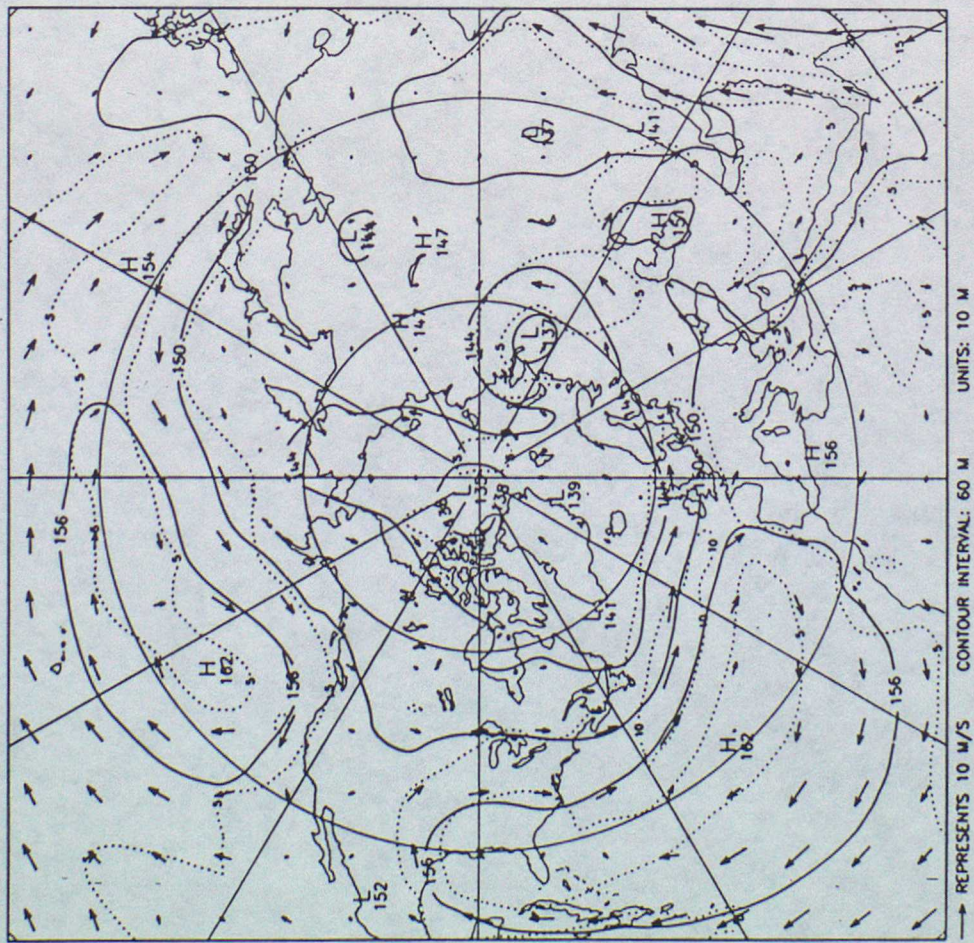
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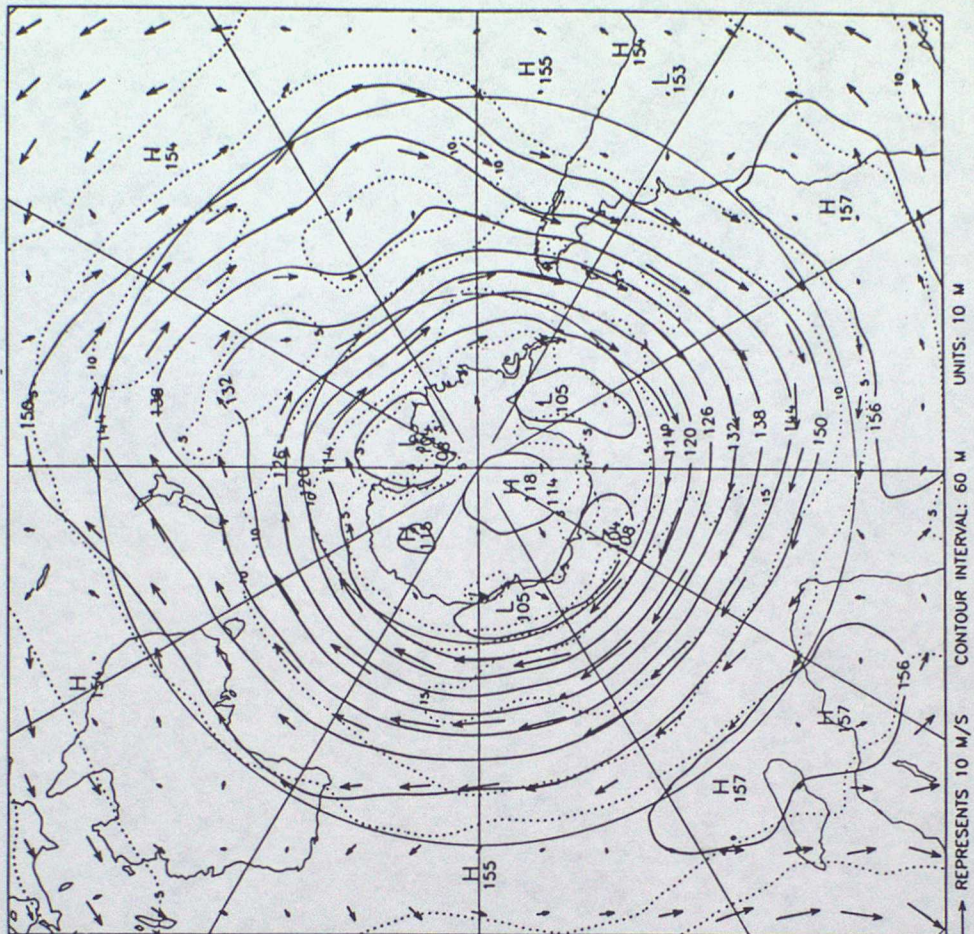


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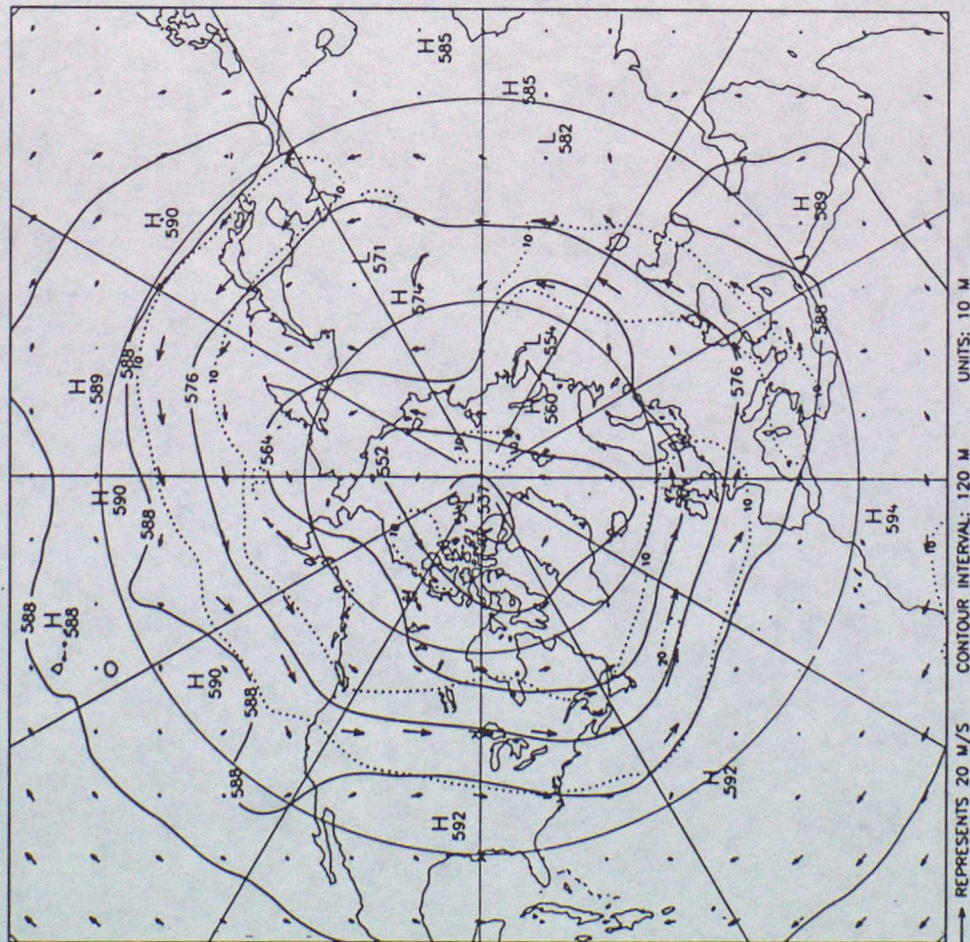
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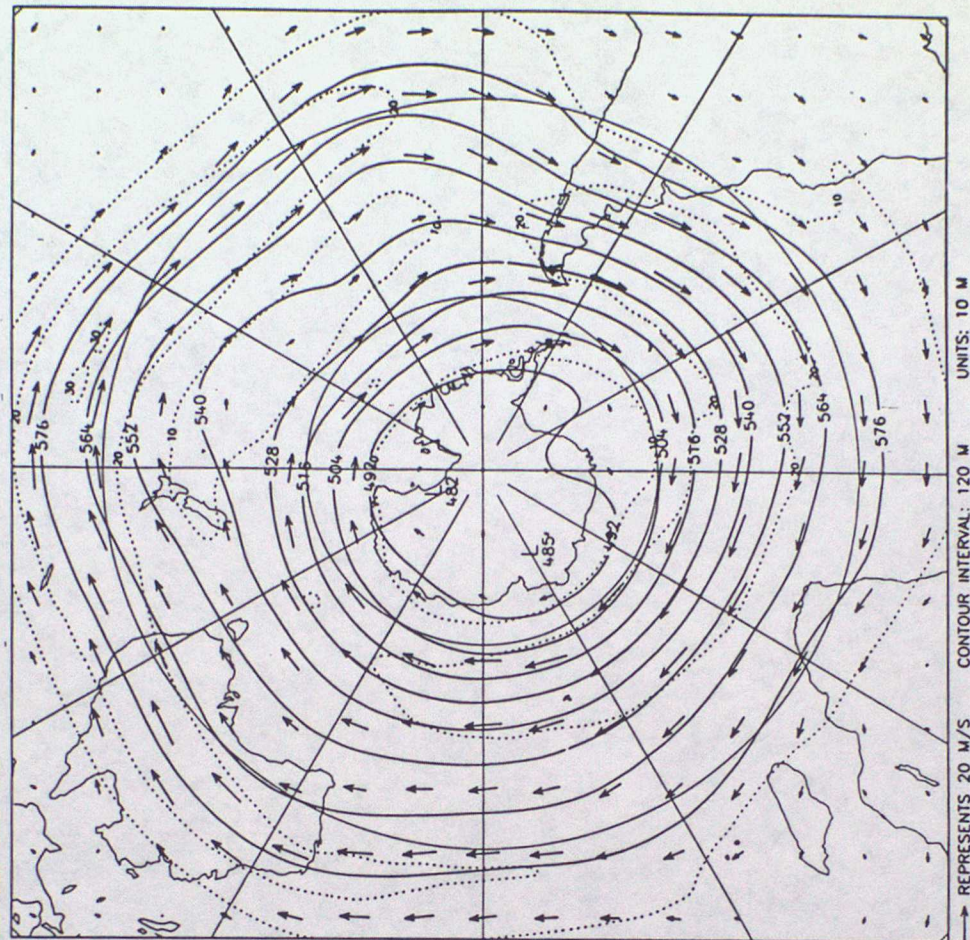
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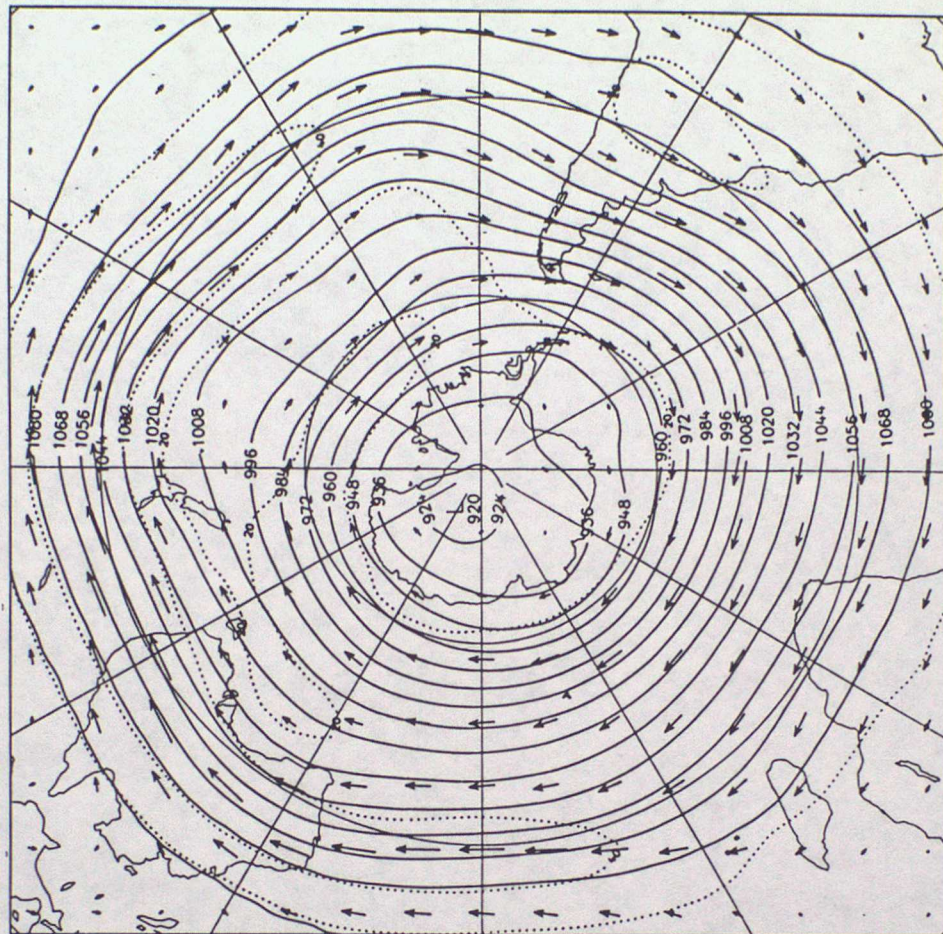
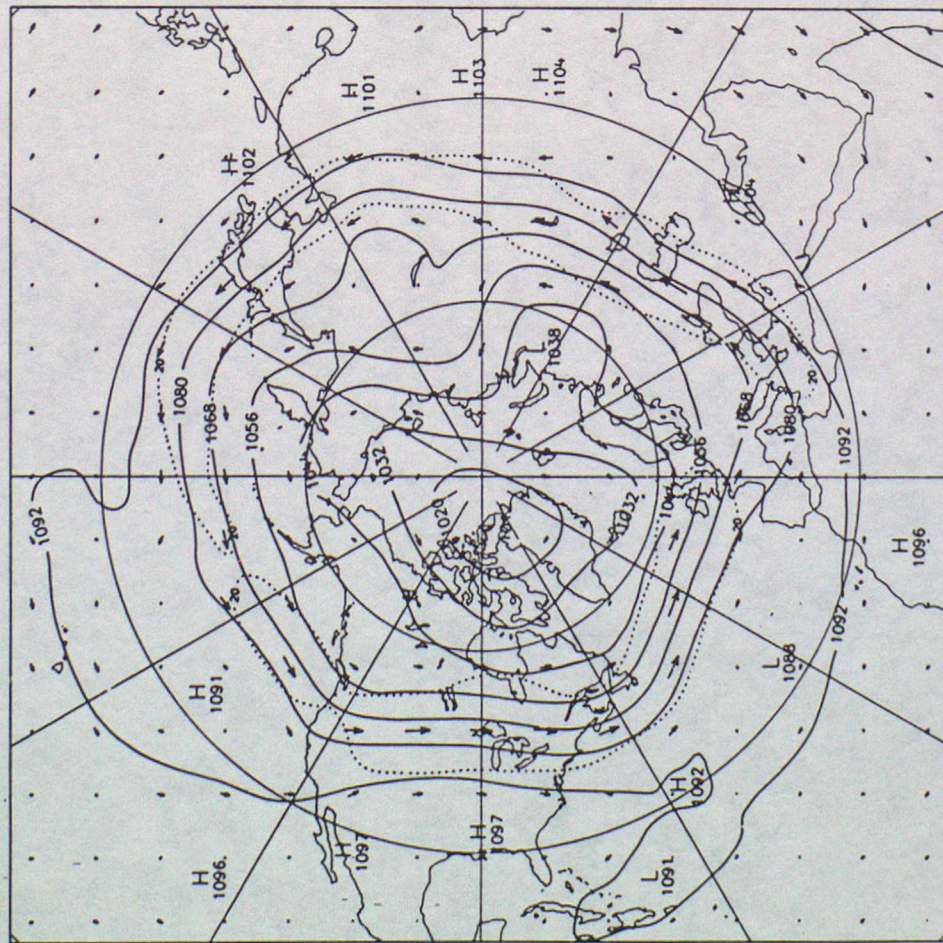
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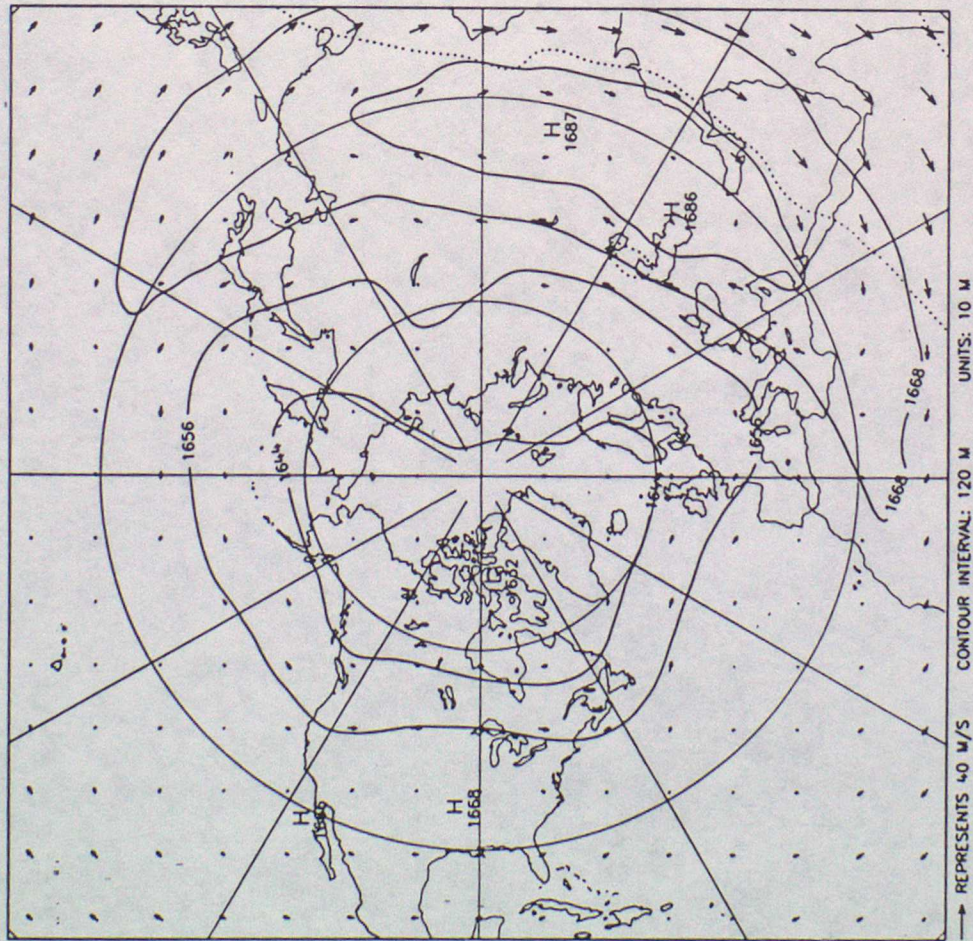
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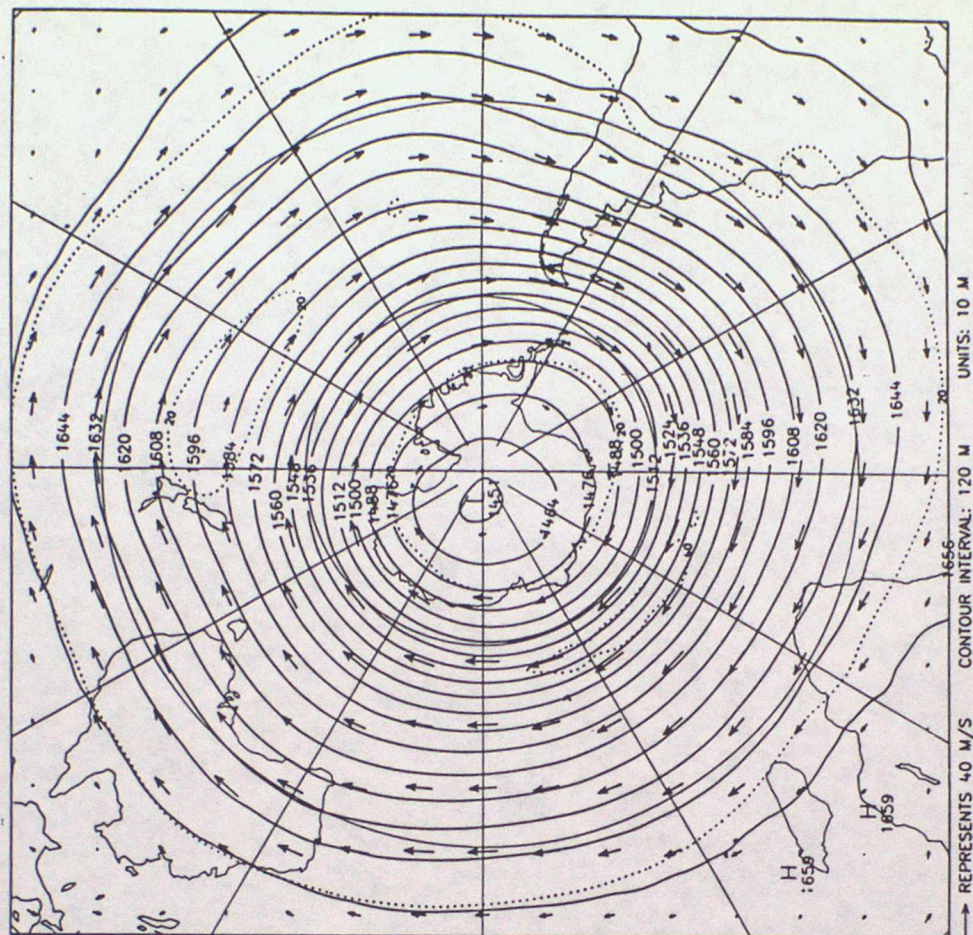
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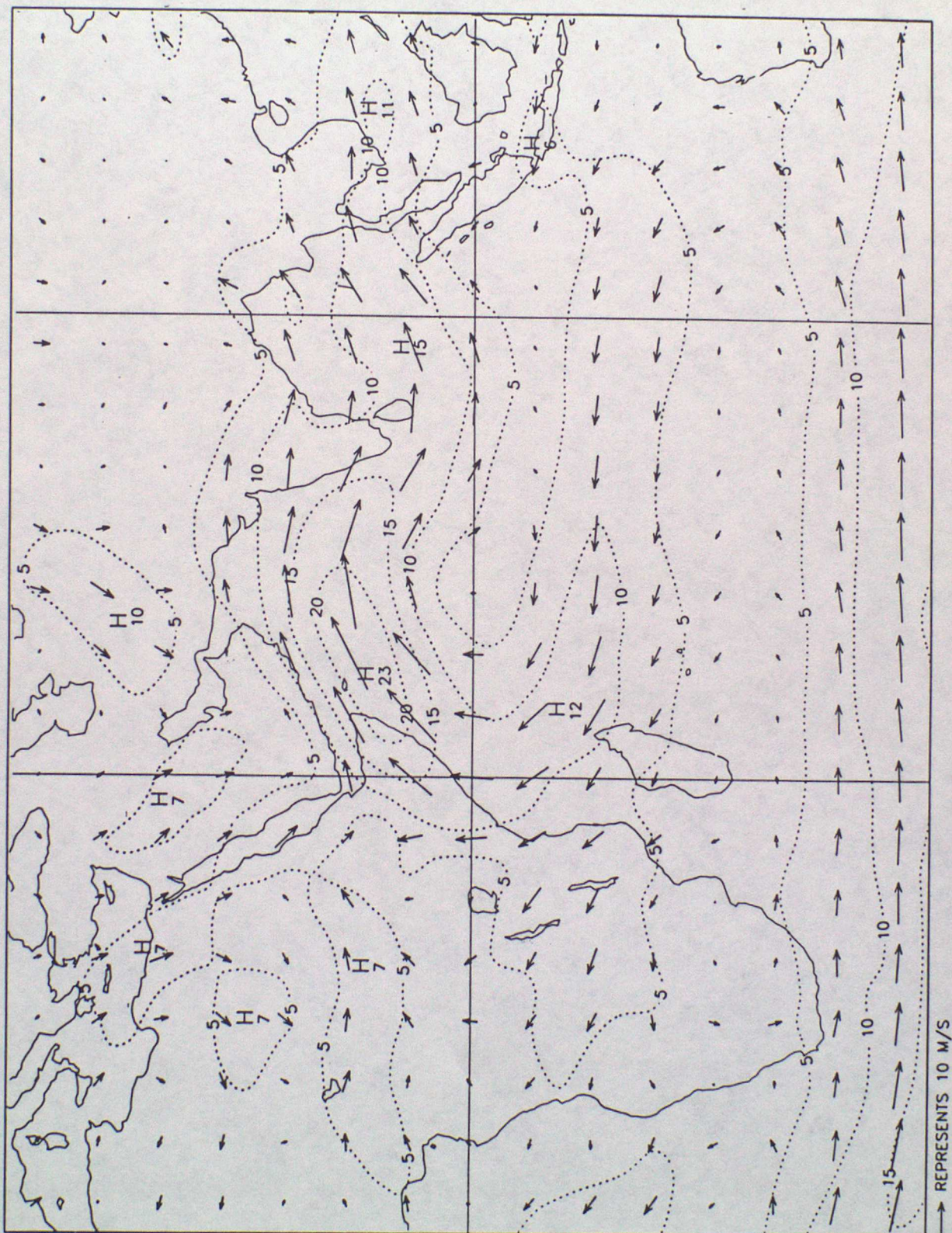
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 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/7/1986 DAY 182 TO 12Z ON 31/7/1986 DAY 212
 LEVEL: 100 MB



OPERATIONAL ARCHIVE MEANS. JULY 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/7/1986 DAY 182 TO 12Z ON 31/7/1986 DAY 212
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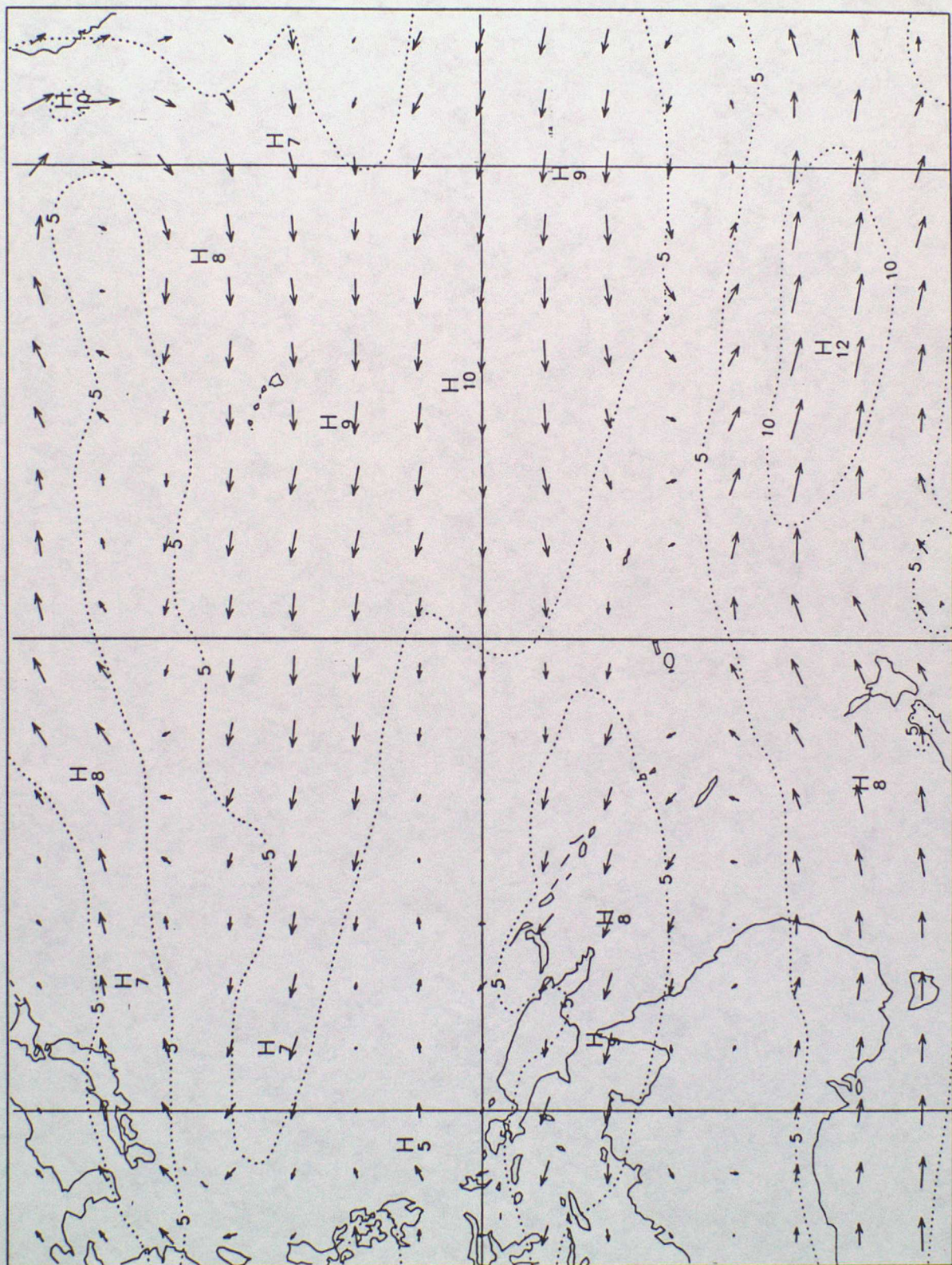


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 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
 AVERAGE FROM 0Z ON 1/7/1986 DAY 182 TO 12Z ON 31/7/1986 DAY 212
 850 MBS. BETWEEN LONGS. 0 E - 120 E



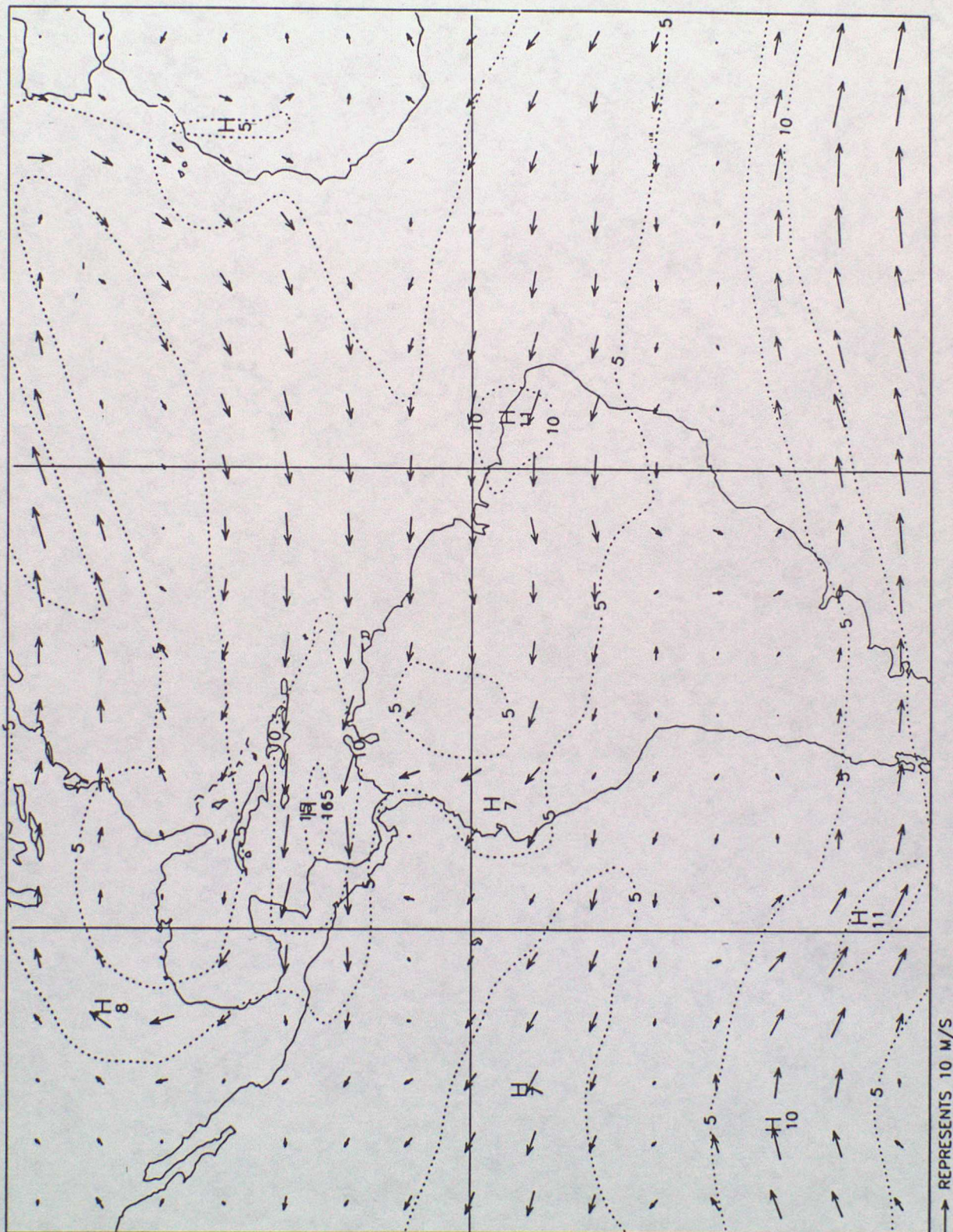
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OPERATIONAL ARCHIVE MEANS. JULY 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
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850 MBs.
BETWEEN LONGS. 120 E - 120 W



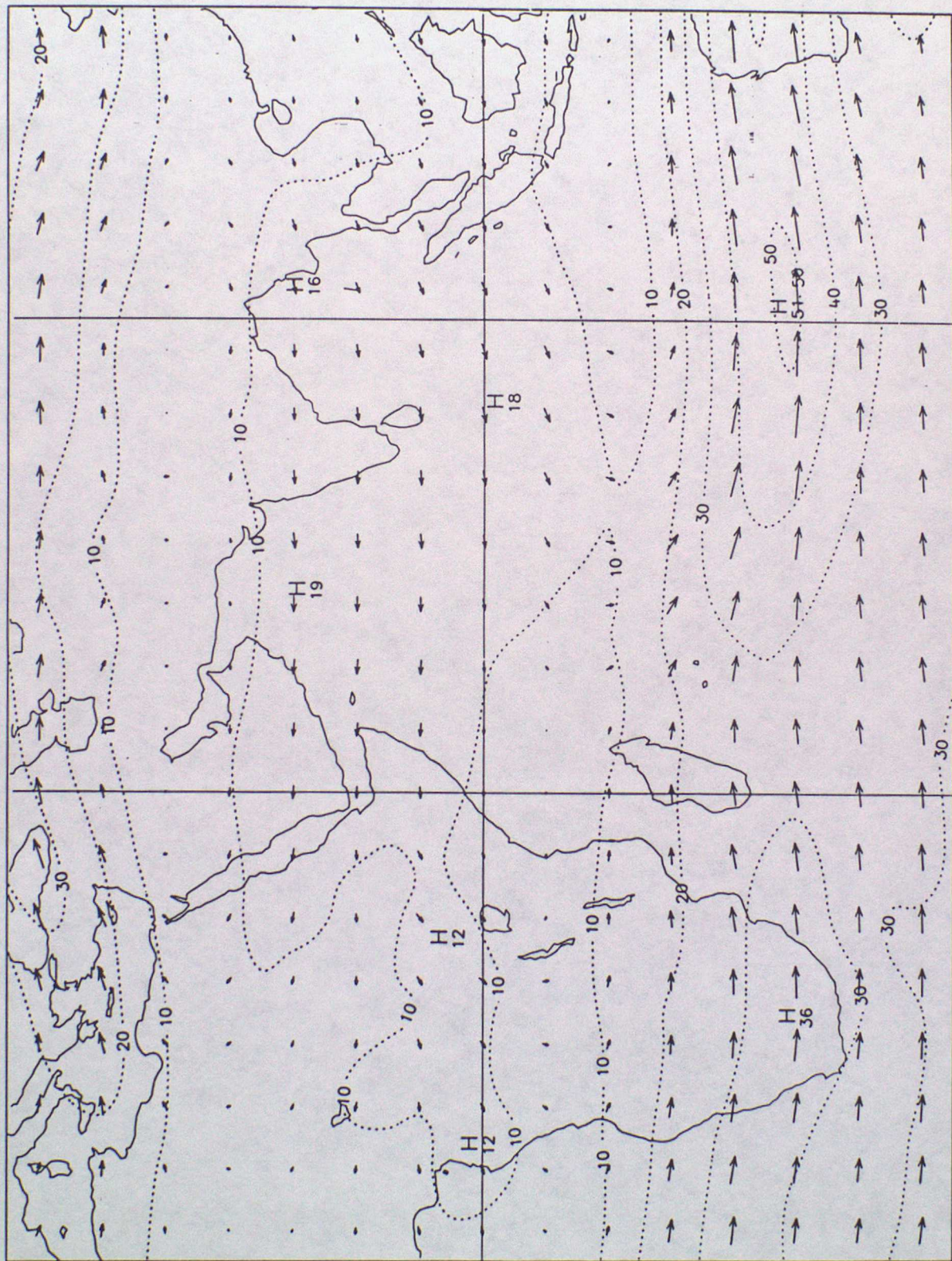
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OPERATIONAL ARCHIVE MEANS. JULY 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
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BETWEEN LONGS. 120 W - 0 W
850 MB.



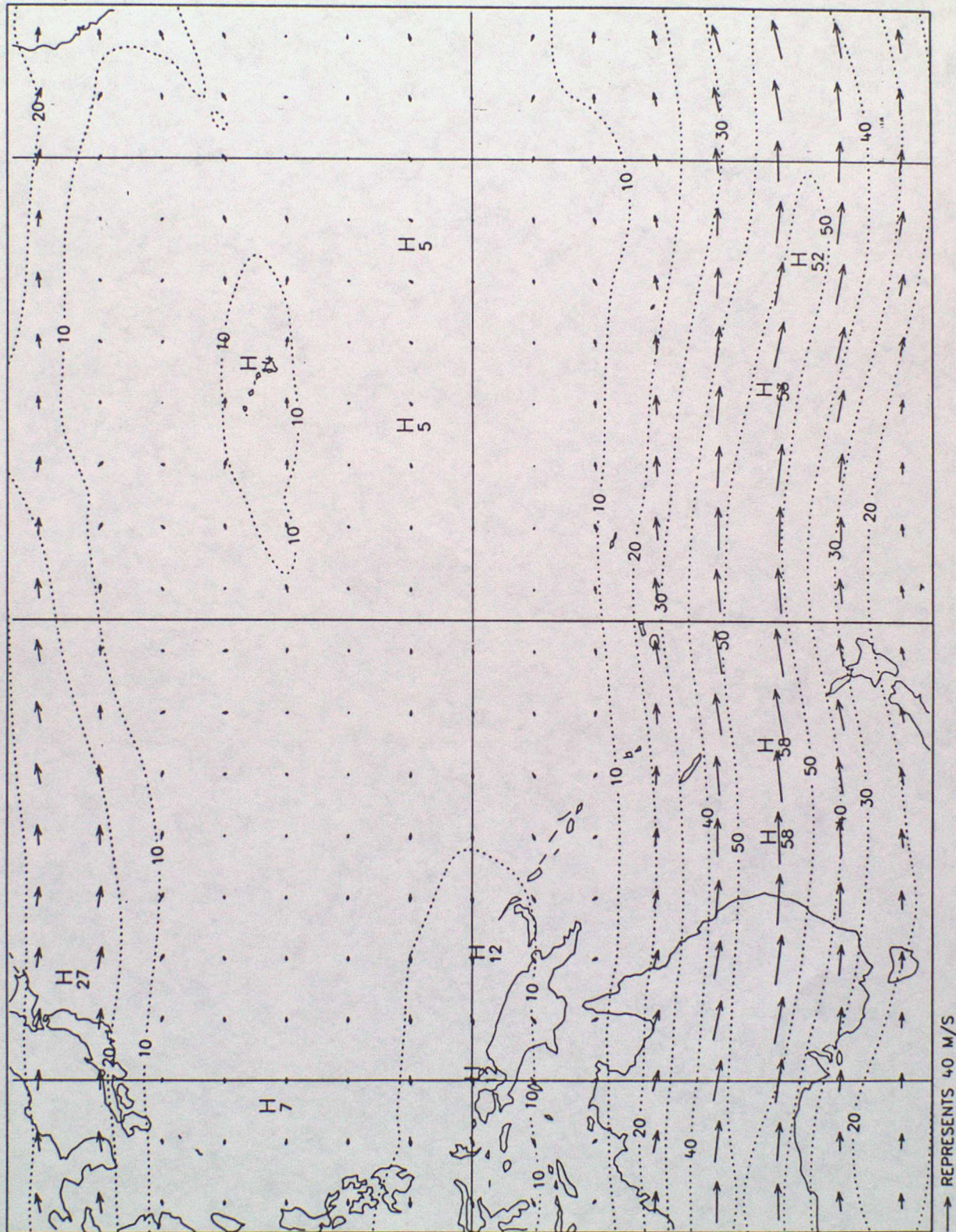
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OPERATIONAL ARCHIVE MEANS. JULY 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/7/1986 DAY 182 TO 12Z ON 31/7/1986 DAY 212
BETWEEN LONGS. 0 E - 120 E
250 MBS.

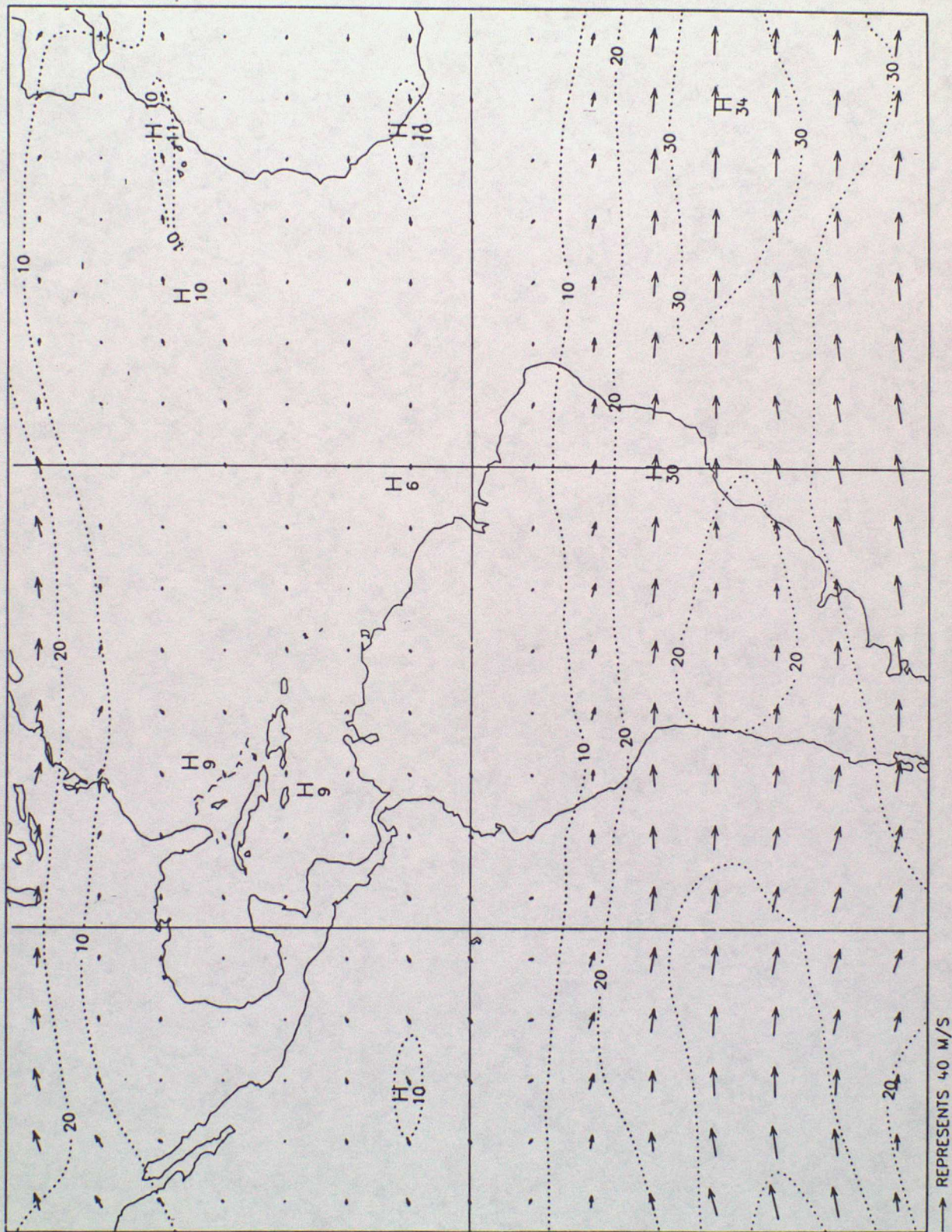


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WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/7/1986 DAY 182 TO 12Z ON 31/7/1986 DAY 212
250 MBS. BETWEEN LONGS. 120 E - 120 W



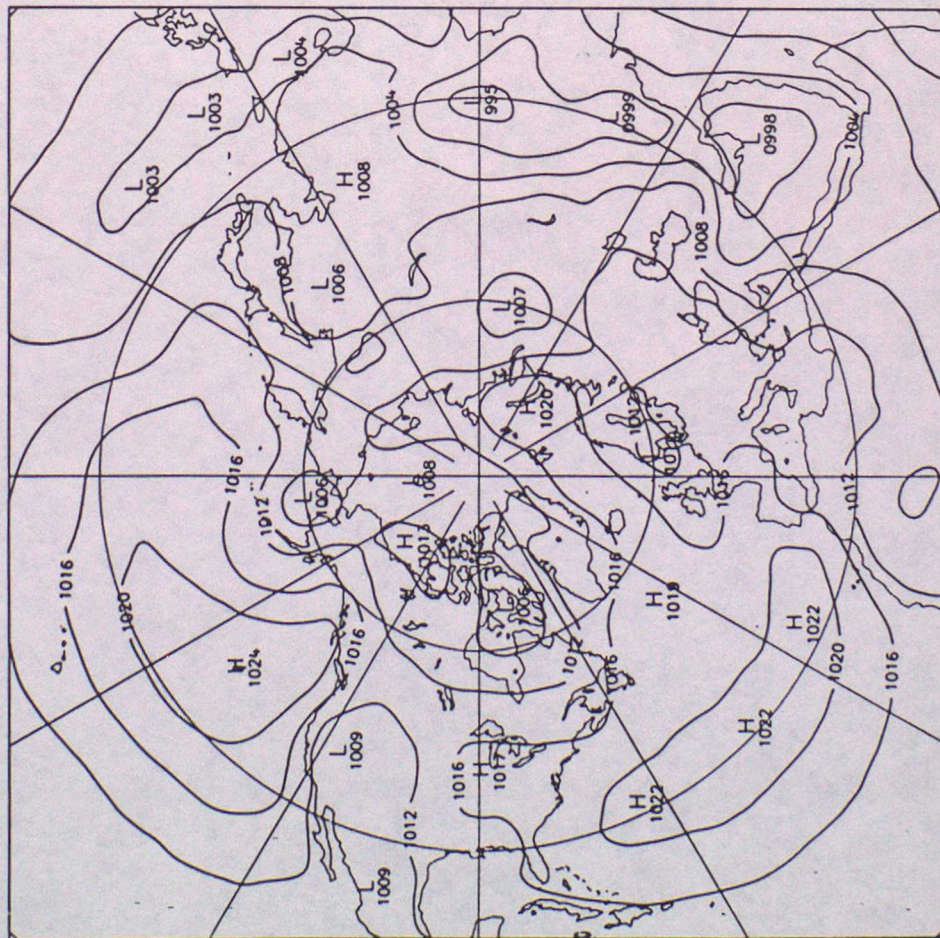
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 AVERAGE FROM 0Z ON 1/7/1986 DAY 182 TO 12Z ON 31/7/1986 DAY 212
 BETWEEN LONGS. 120 W - 0 W
 250 MBS.



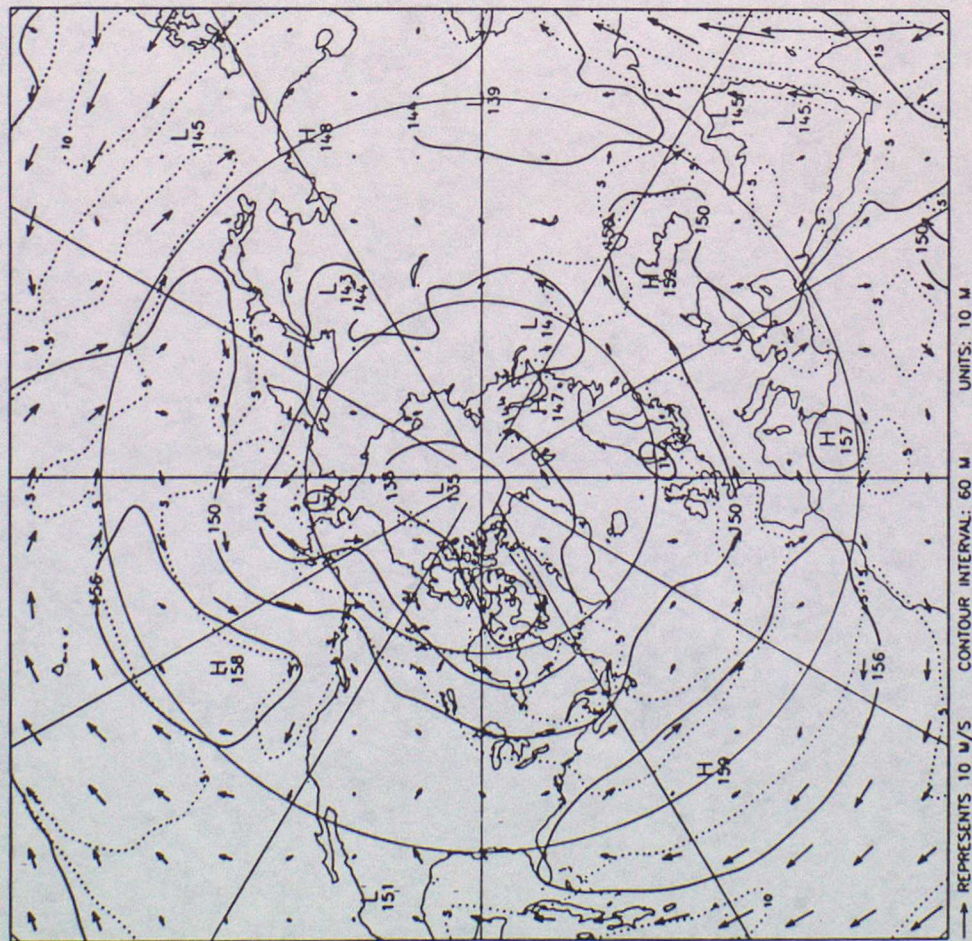
→ REPRESENTS 40 M/S

AUGUST
1986

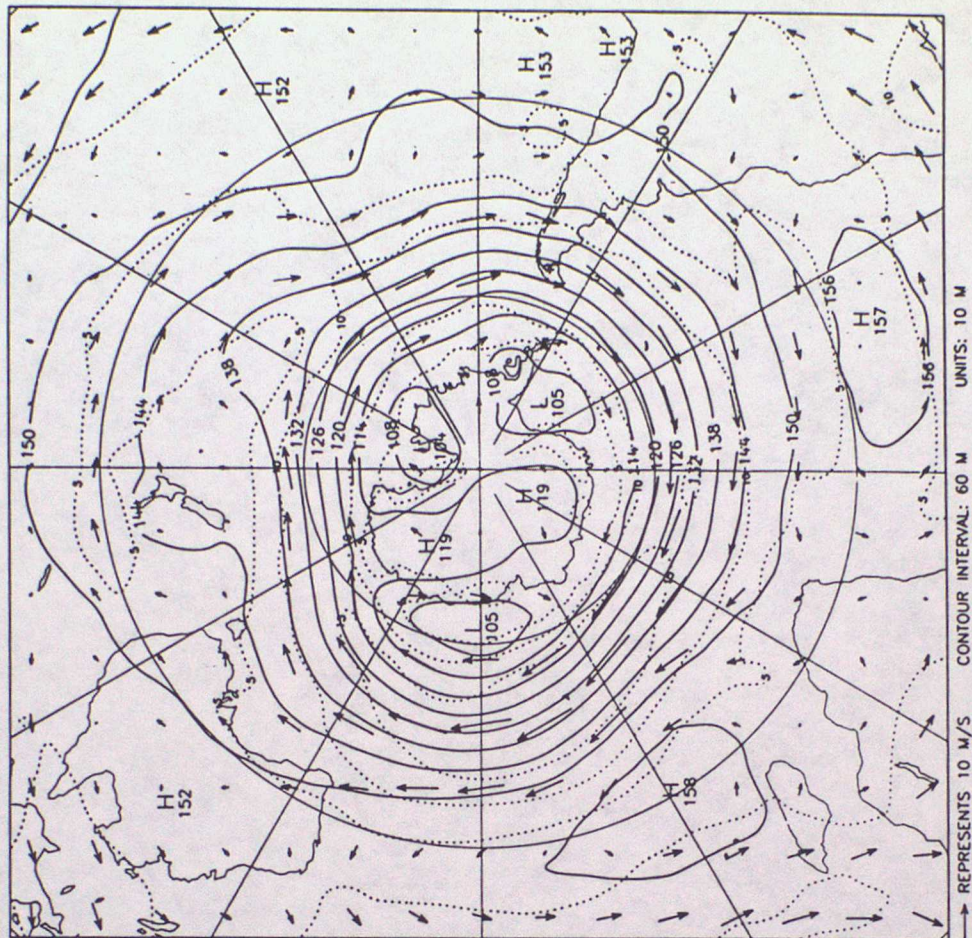
OPERATIONAL ARCHIVE MEANS. AUGUST 1986
PMSL
AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
LEVEL: SEA LEVEL



OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
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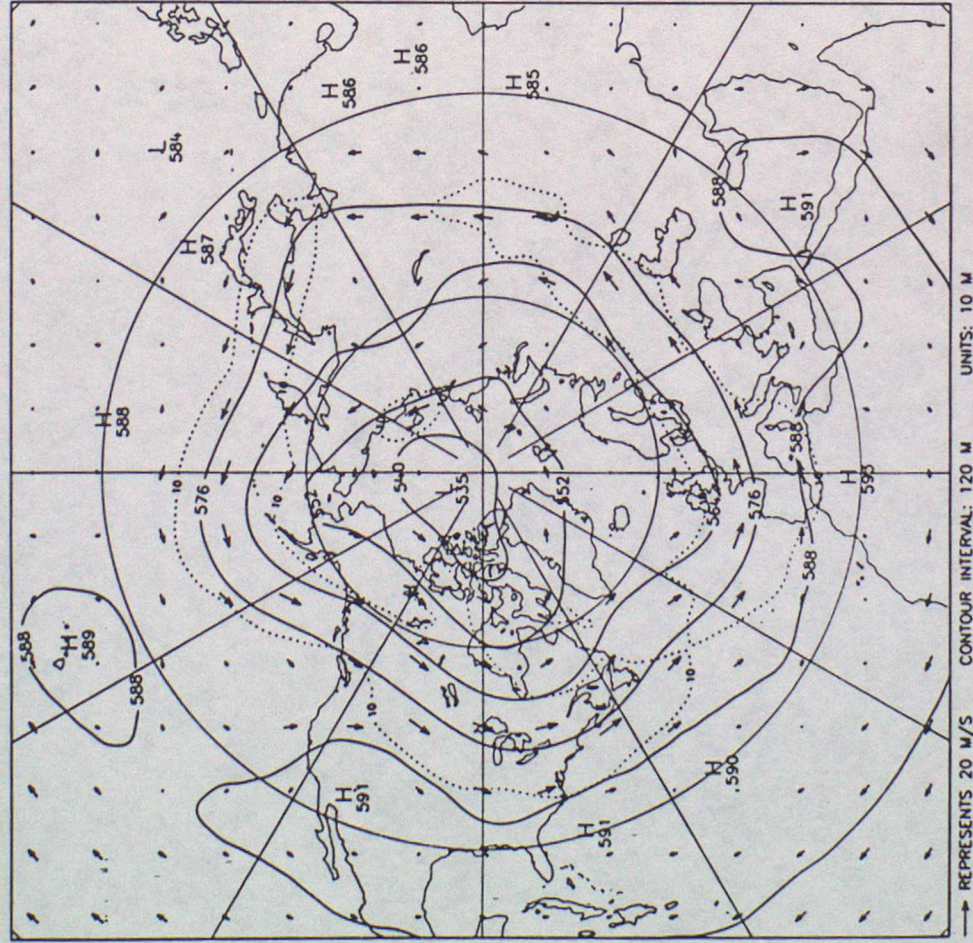


OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
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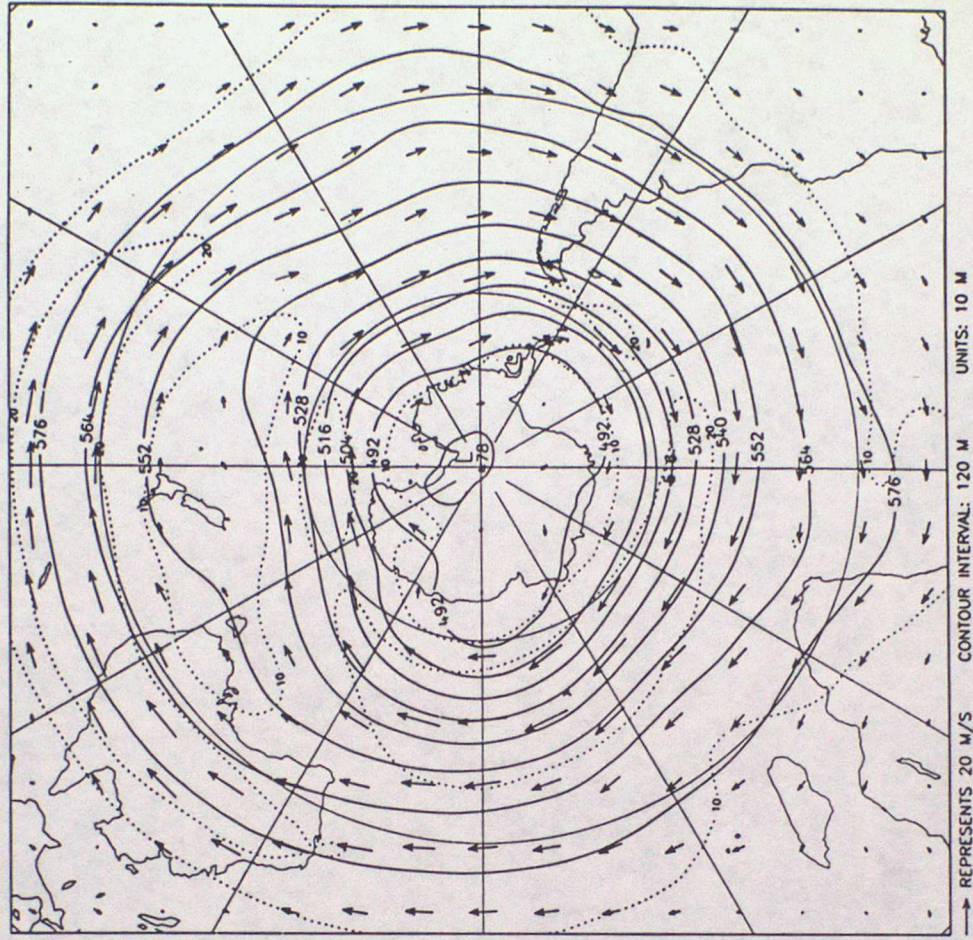
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HEIGHTS, WIND ARROWS AND ISOTACHS.

AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
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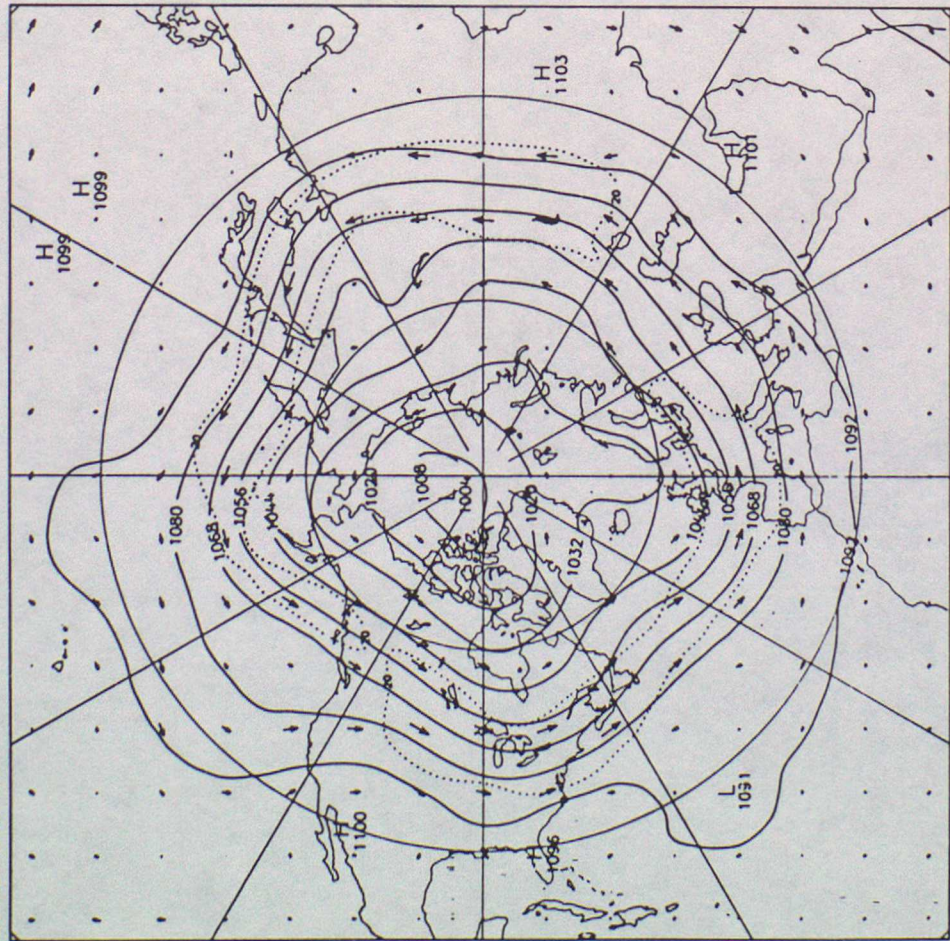


OPERATIONAL ARCHIVE MEANS. AUGUST 1986
HEIGHTS, WIND ARROWS AND ISOTACHS.

AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
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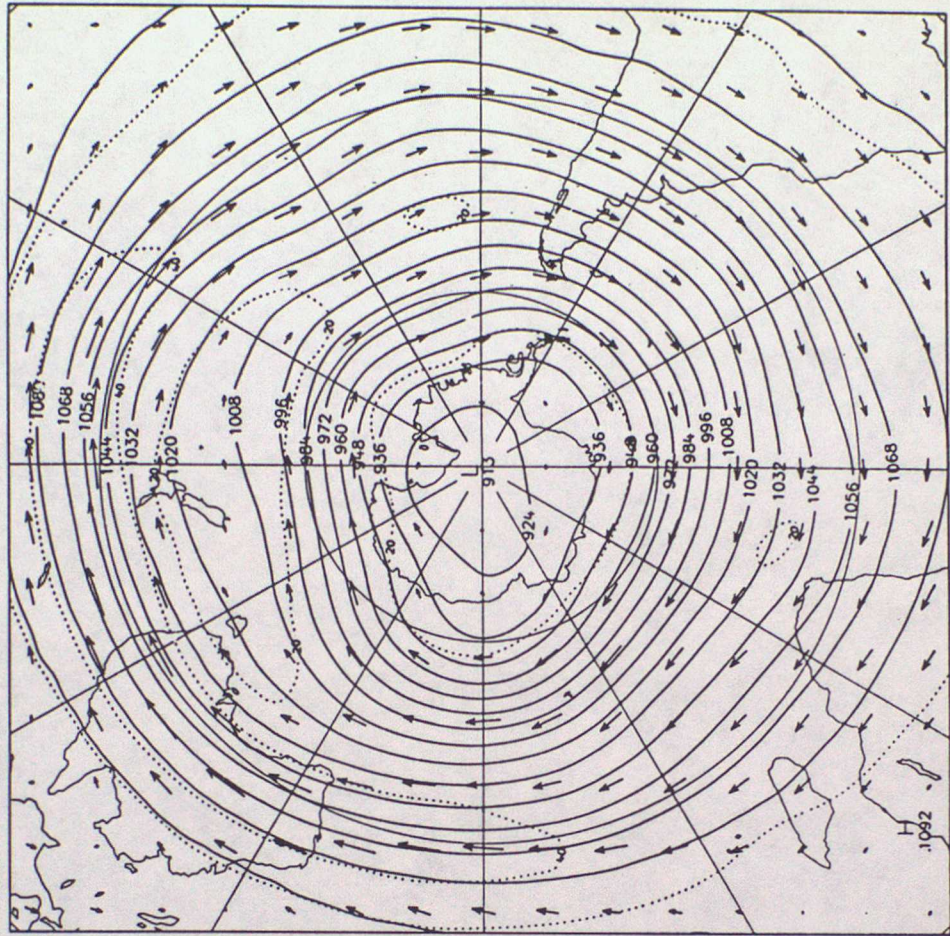


OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
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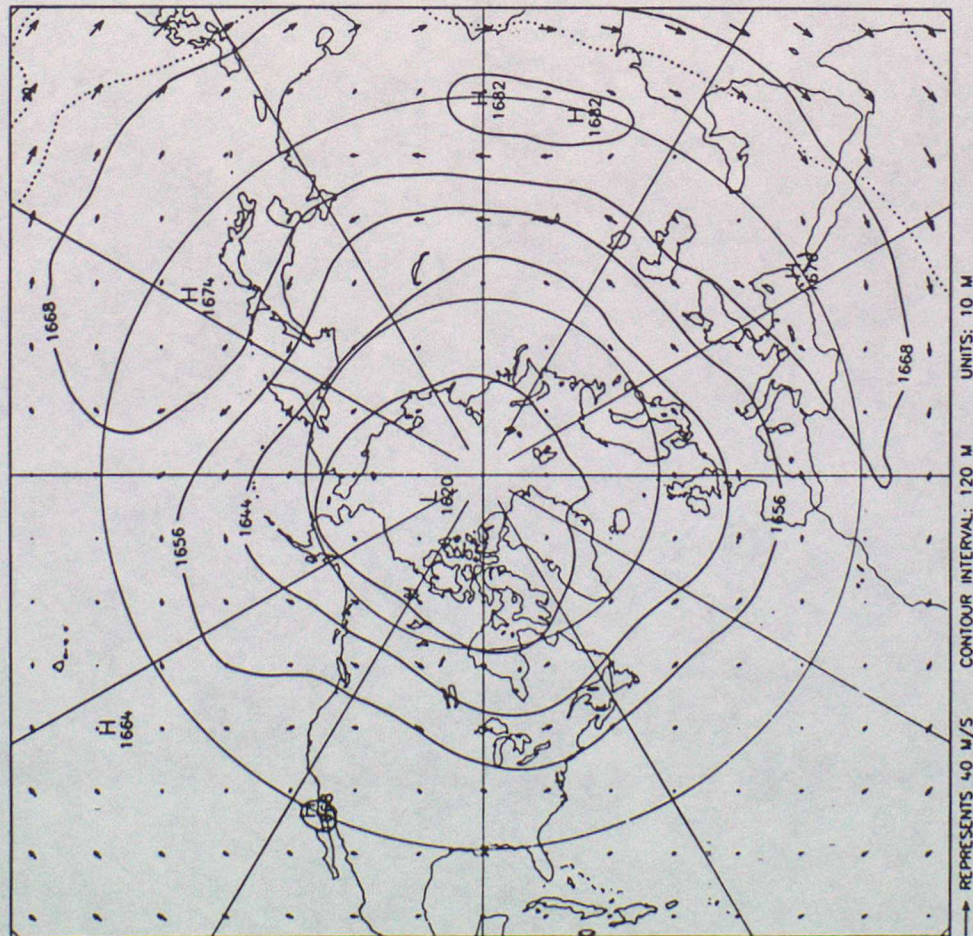
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OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
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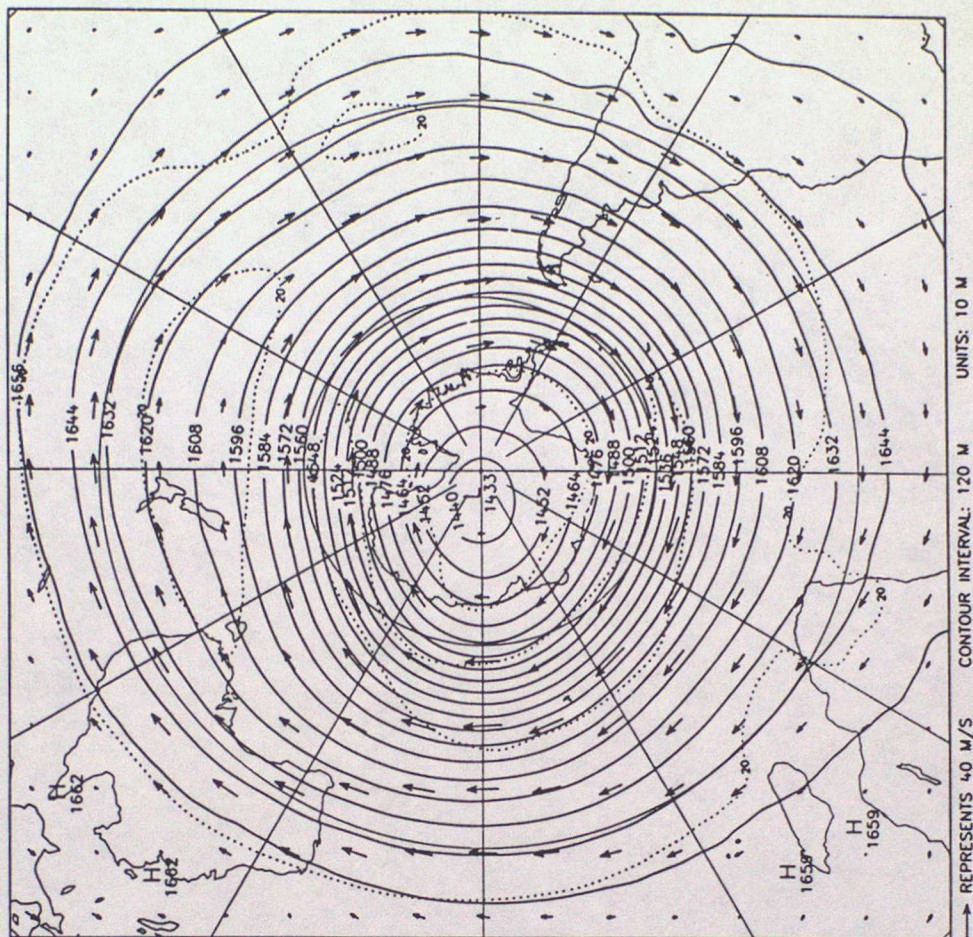


→ REPRESENTS 40 M/S CONTOUR INTERVAL: 120 M UNITS: 10 M

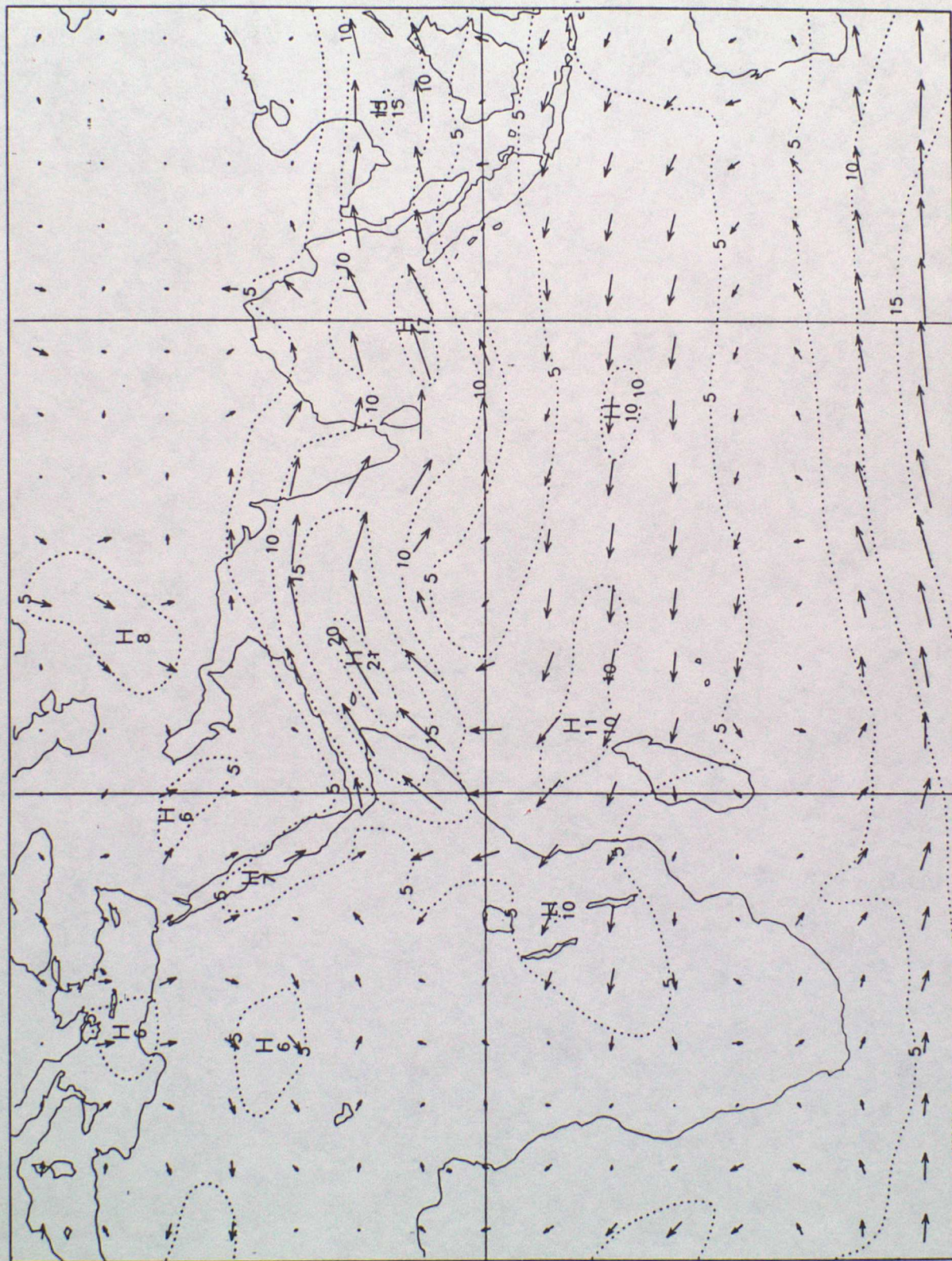
OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 100 MB



OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 100 MB

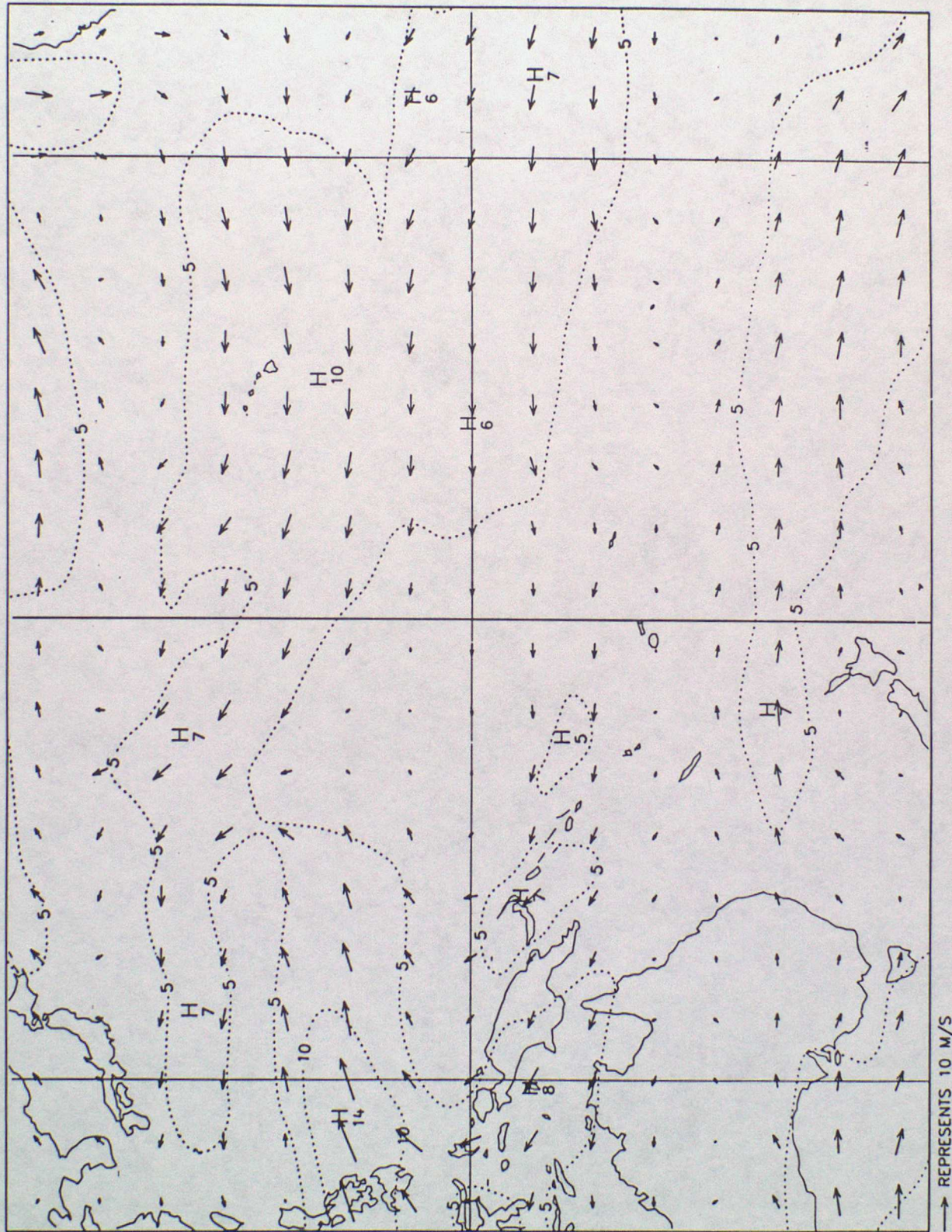


OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.
 AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
 850 MBS. BETWEEN LONGS. 0 E - 120 E



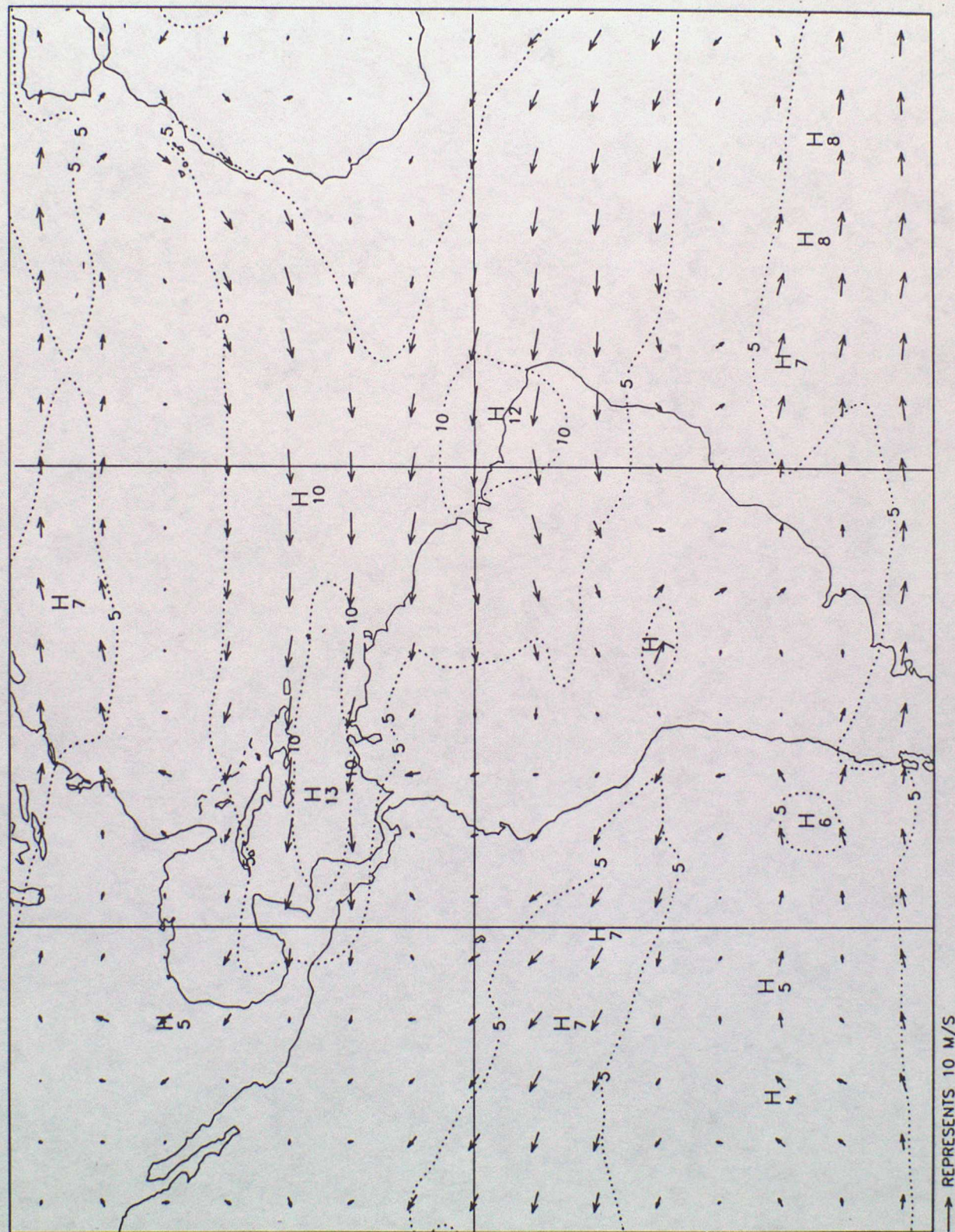
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OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
 AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
 850 MBS.
 BETWEEN LONGS. 120 E - 120 W



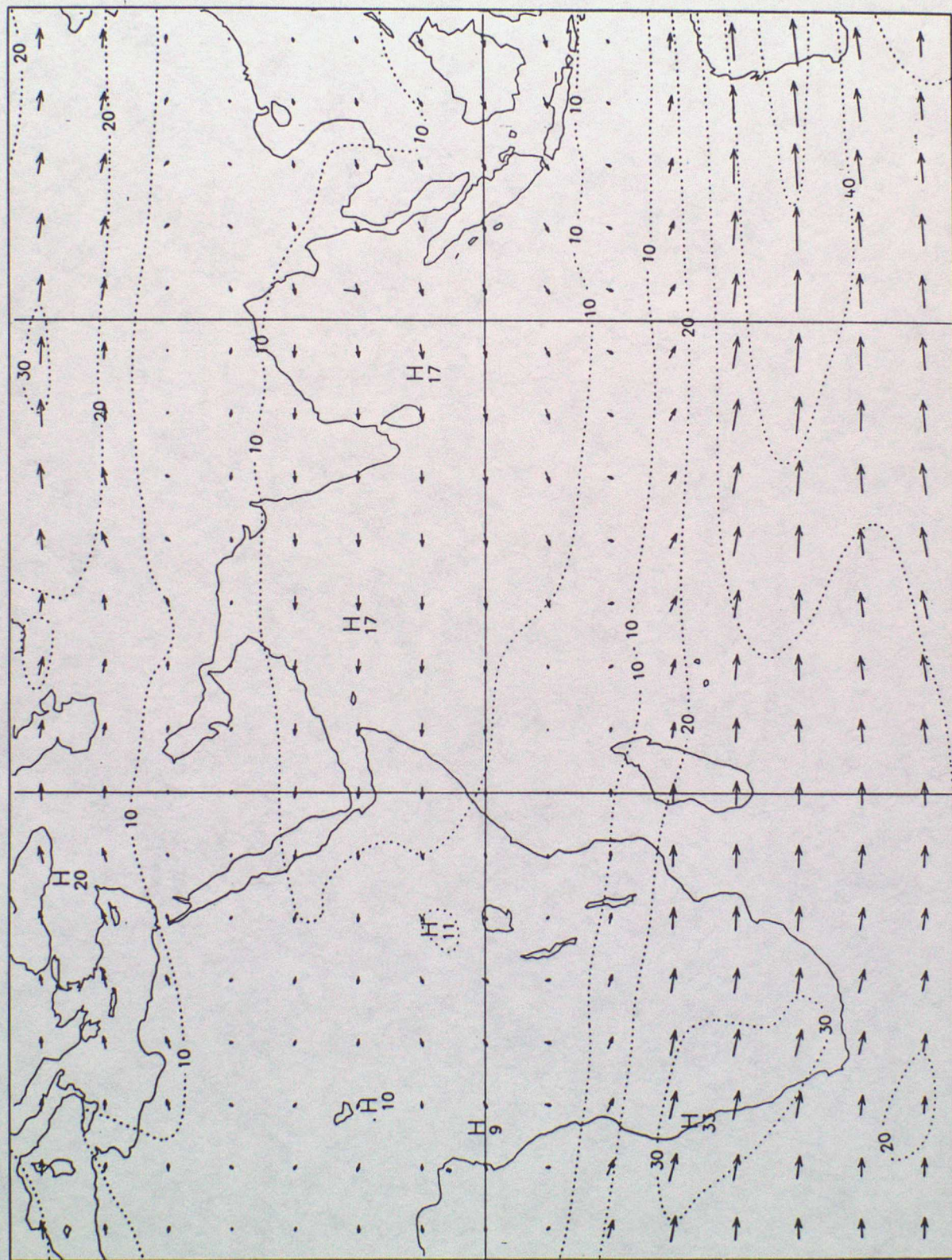
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. AUGUST 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
850 MBS. BETWEEN LONGS. 120 W - 0 W



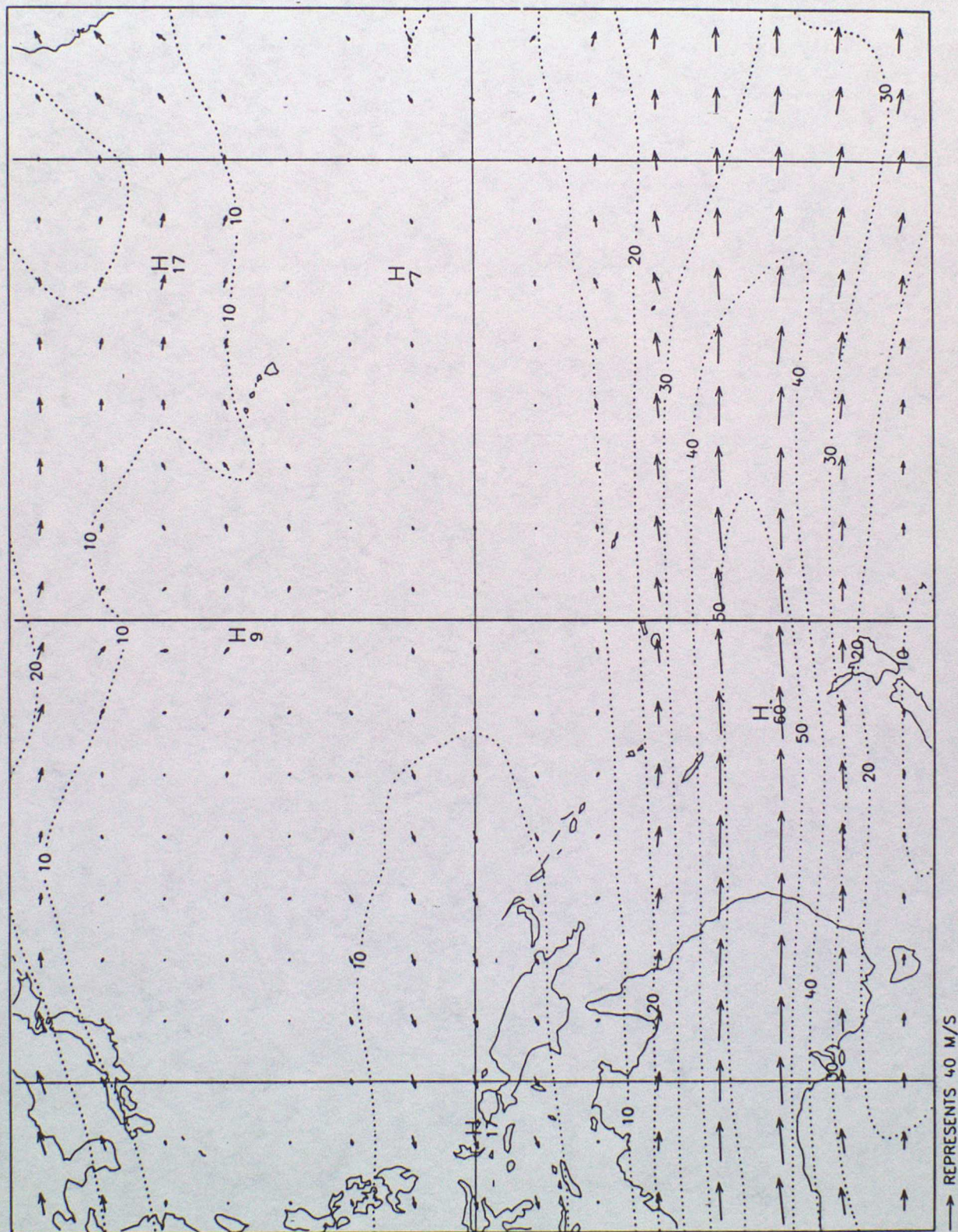
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OPERATIONAL ARCHIVE MEANS. AUGUST 1986
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
 AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
 250 MBS. BETWEEN LONGS. 0 E - 120 E

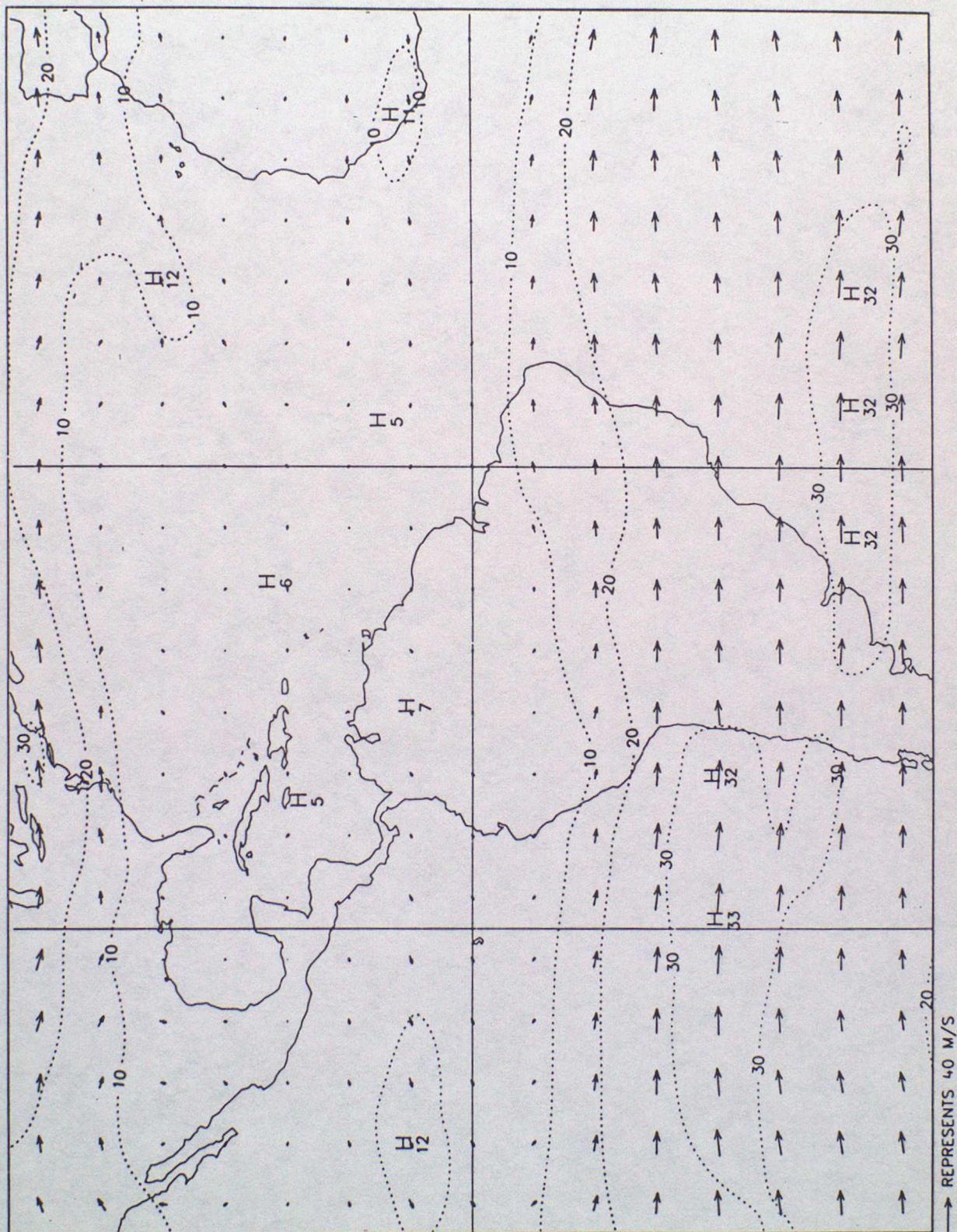


↑ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. AUGUST 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
BETWEEN LONGS. 120 E - 120 W
250 MBS.

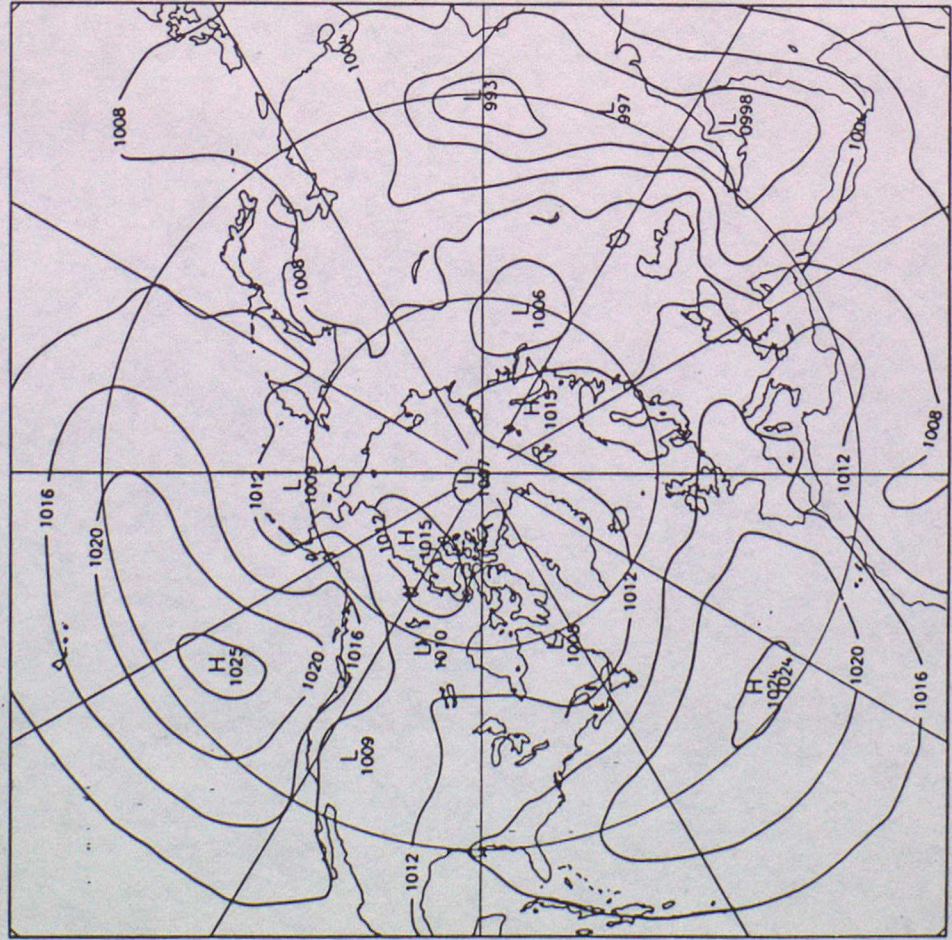


OPERATIONAL ARCHIVE MEANS. AUGUST 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/8/1986 DAY 213 TO 12Z ON 31/8/1986 DAY 243
250 MBS. BETWEEN LONGS. 120 W - 0 W

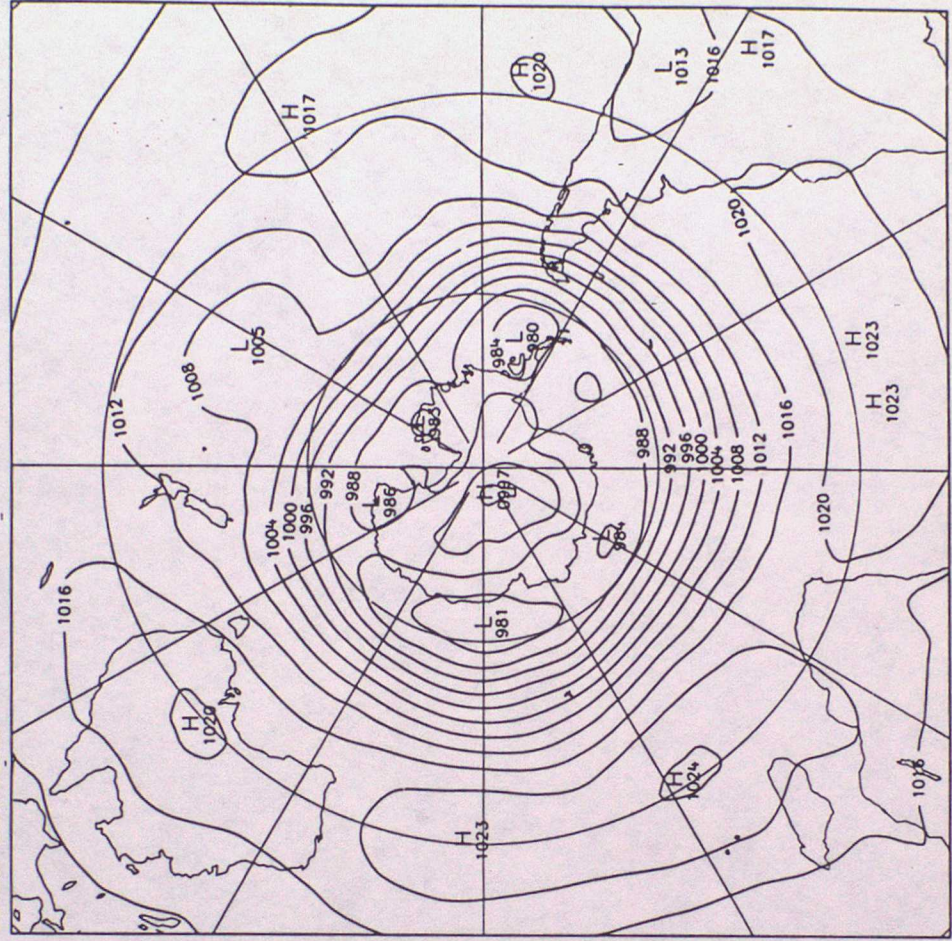


JUNE/JULY/AUGUST
1986

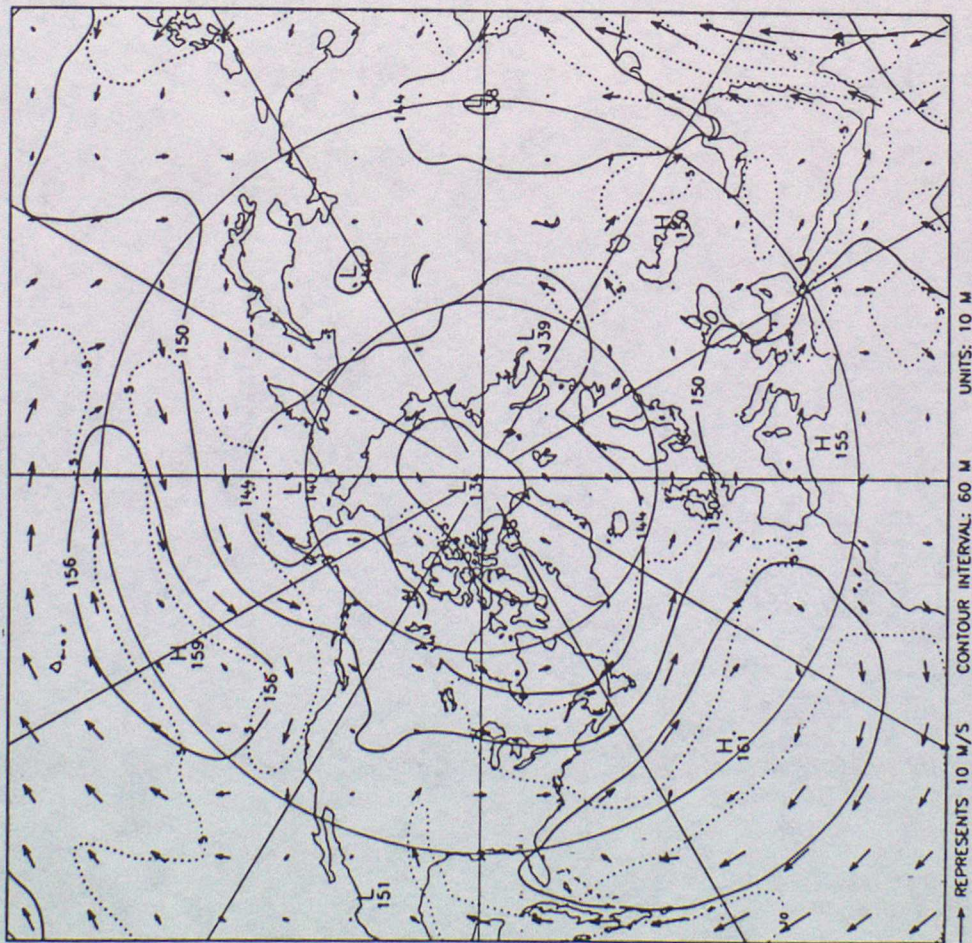
OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
PMSL
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
LEVEL: SEA LEVEL



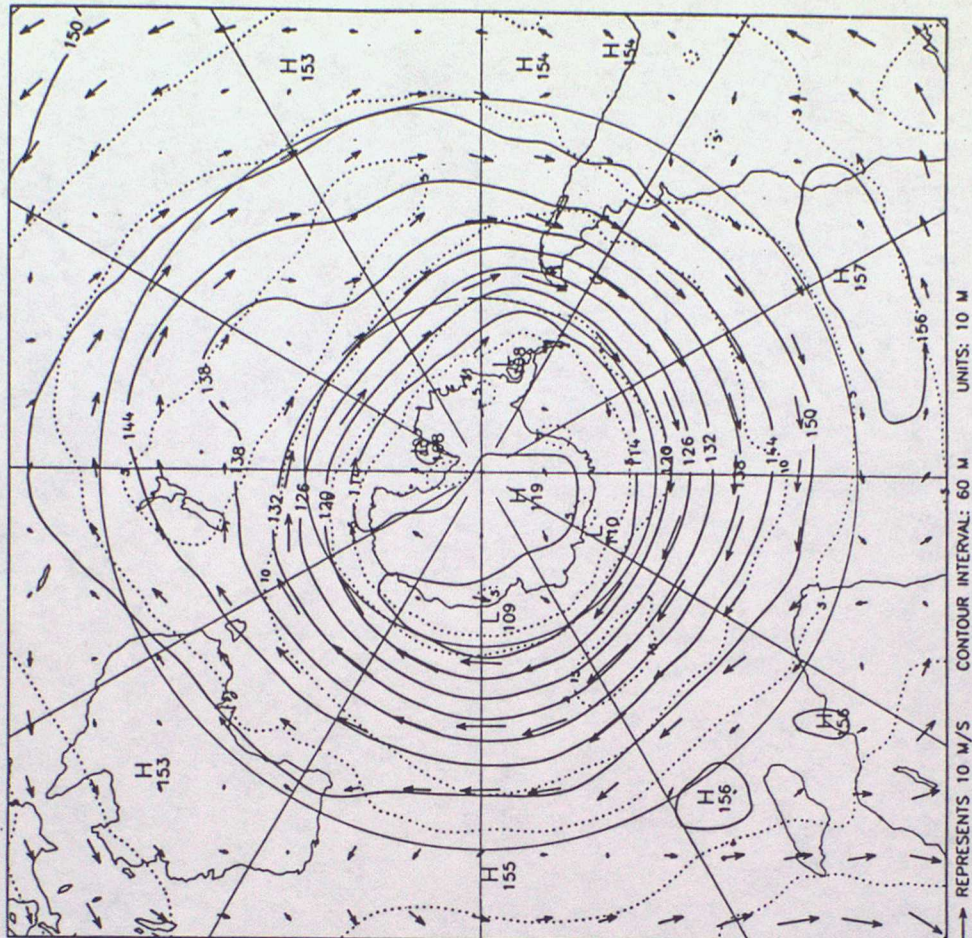
OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
PMSL
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
LEVEL: SEA LEVEL



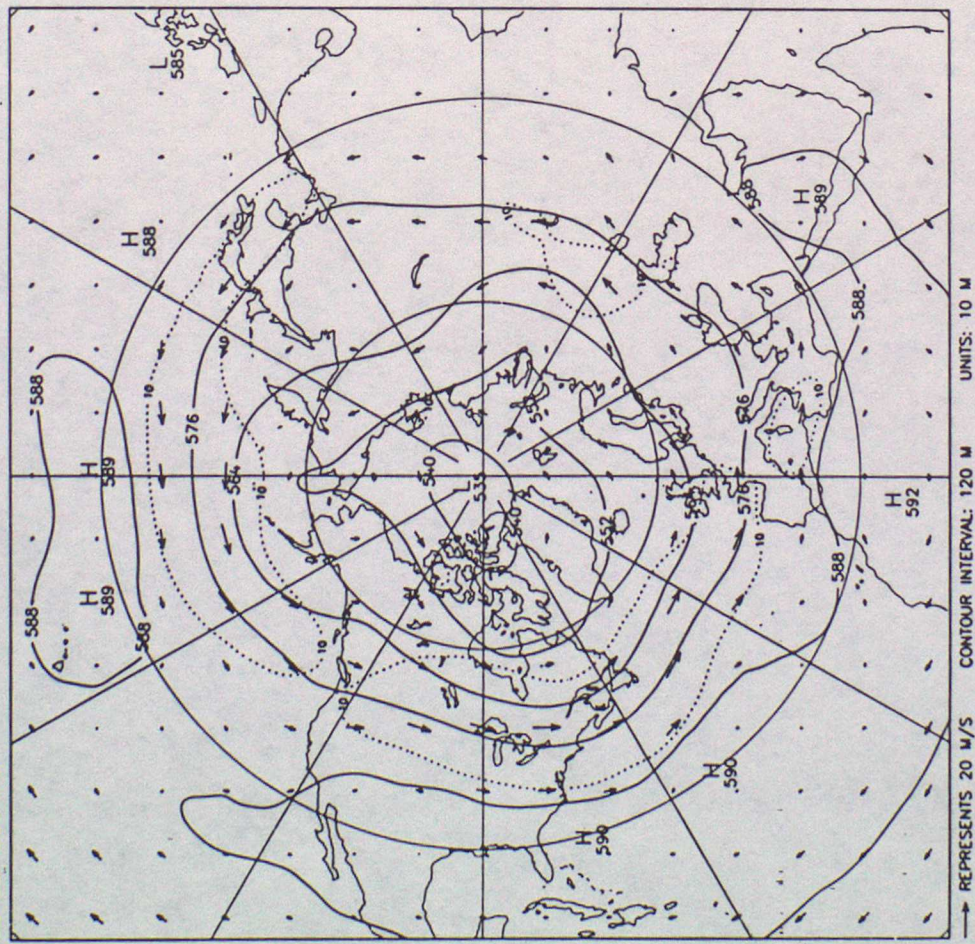
OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 850 MB



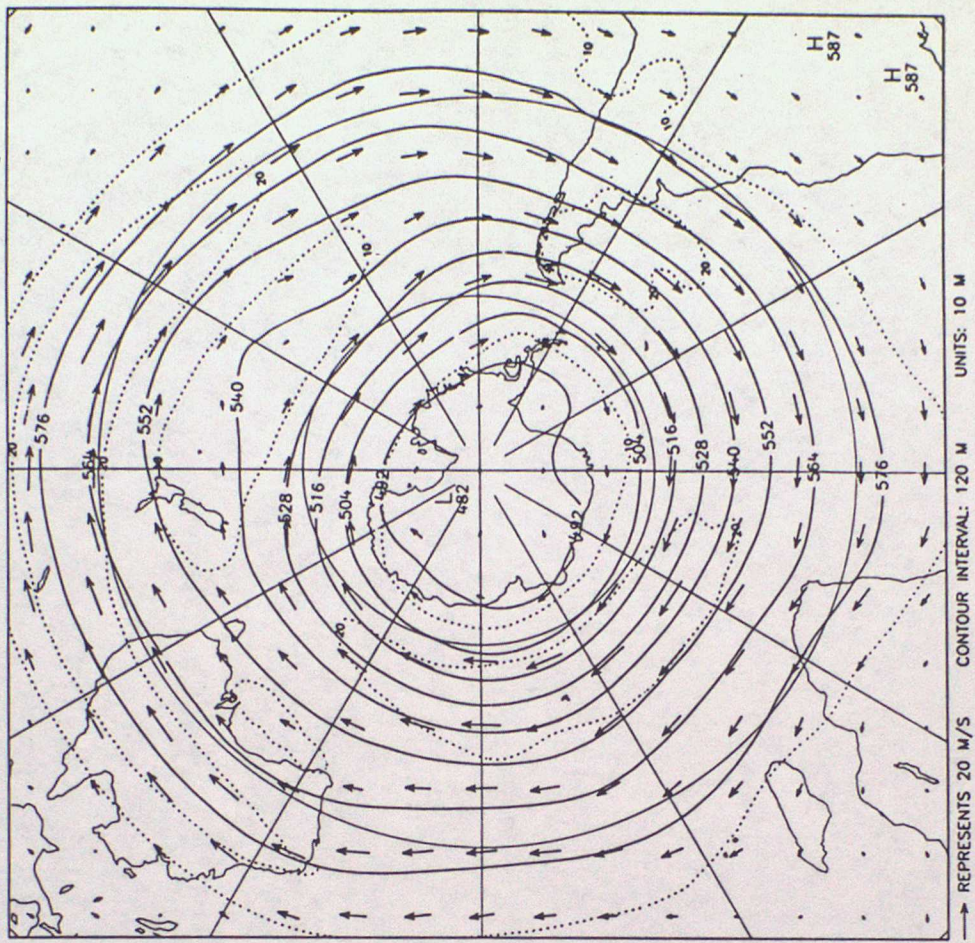
OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 850 MB



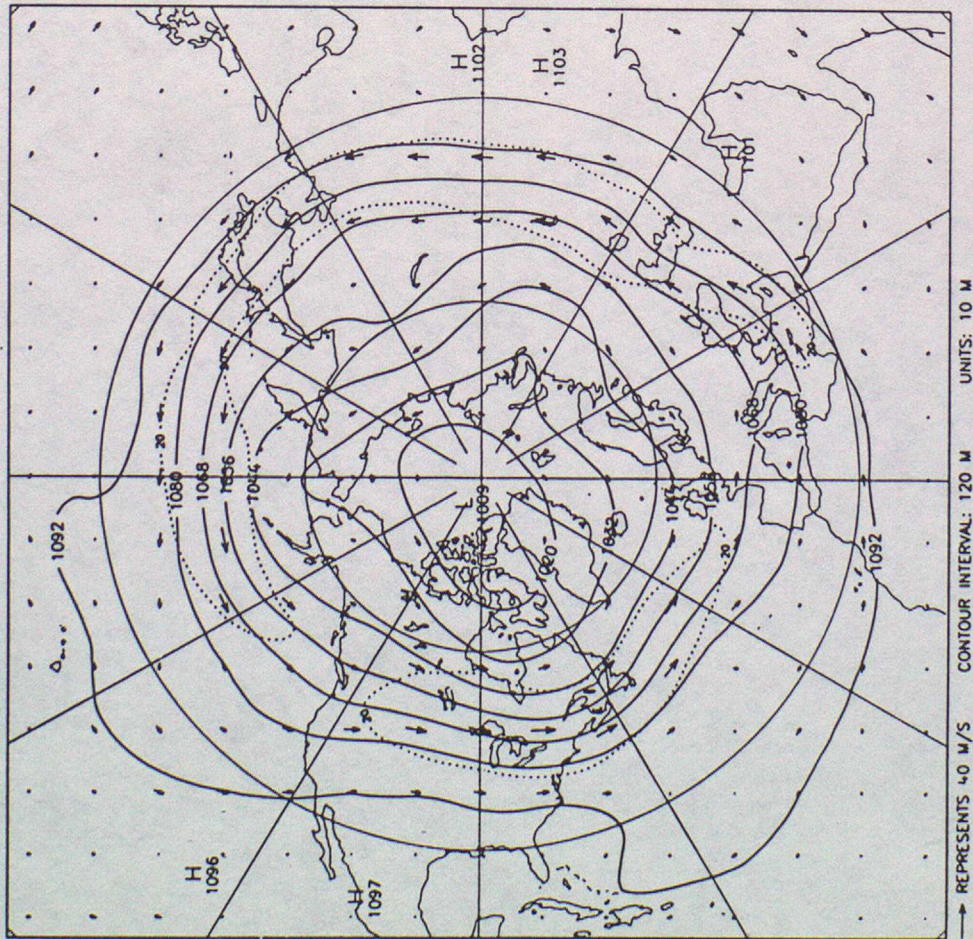
OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 500 MB



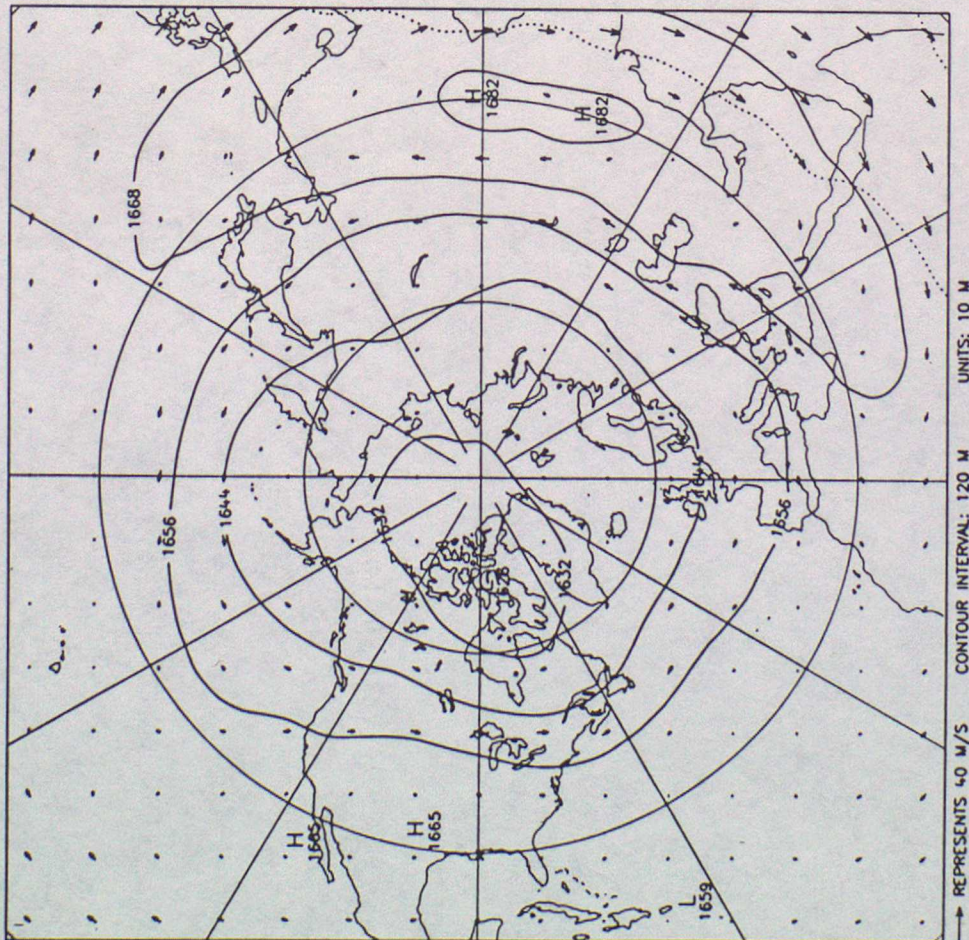
OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 500 MB



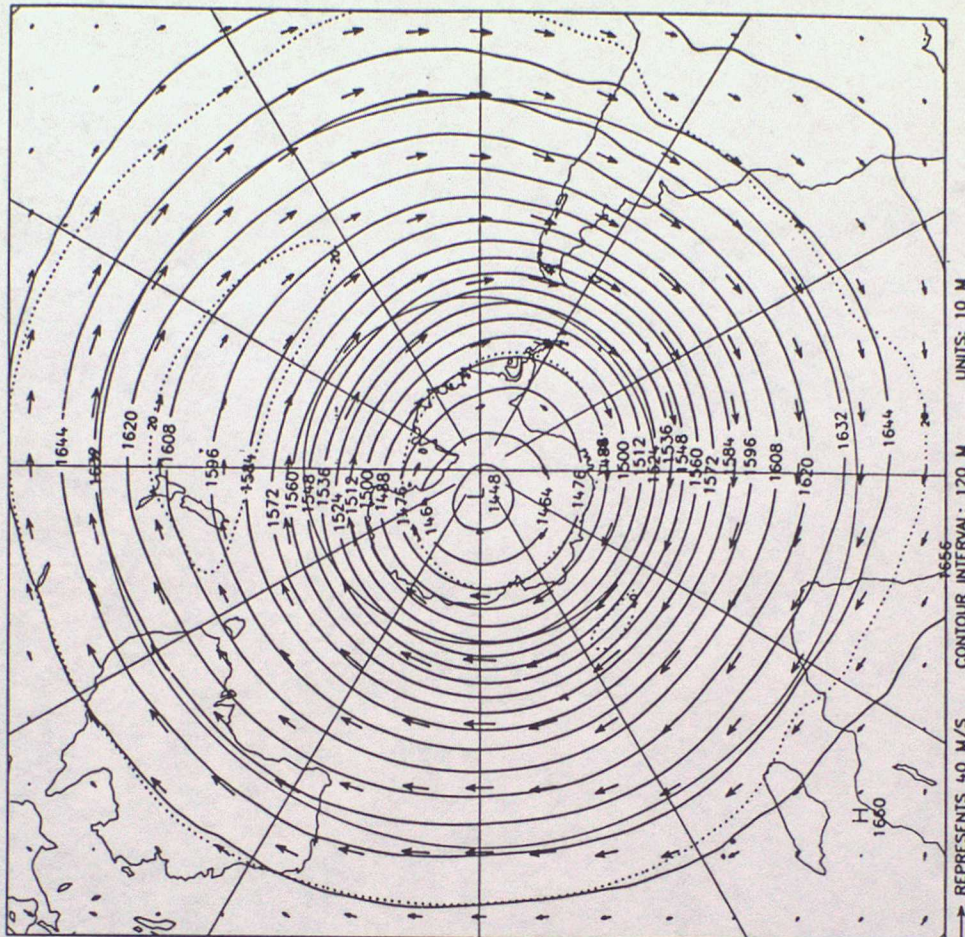
OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 250 MB



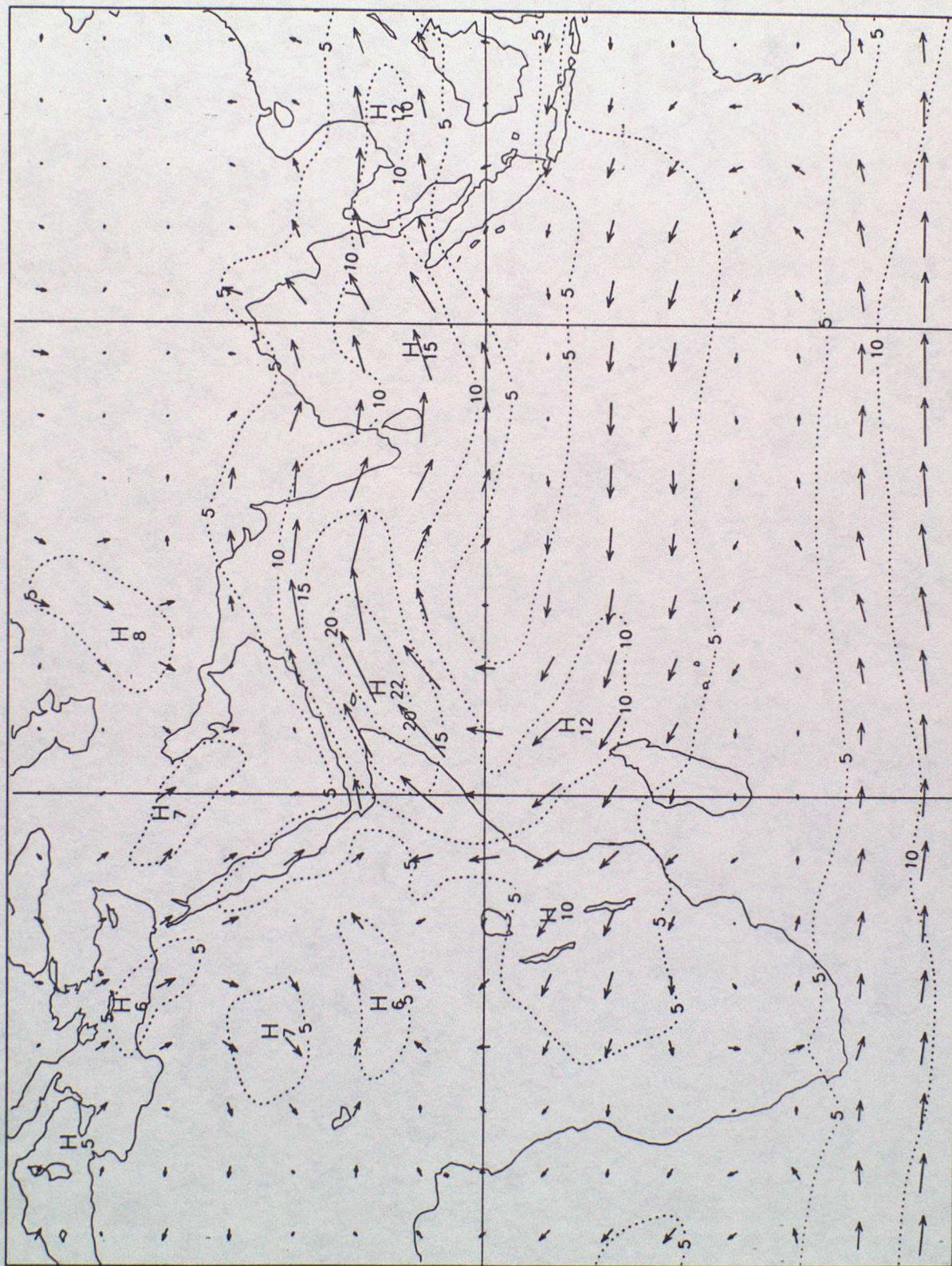
OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 100 MB



OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 HEIGHTS, WIND ARROWS AND ISOTACHS.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 LEVEL: 100 MB

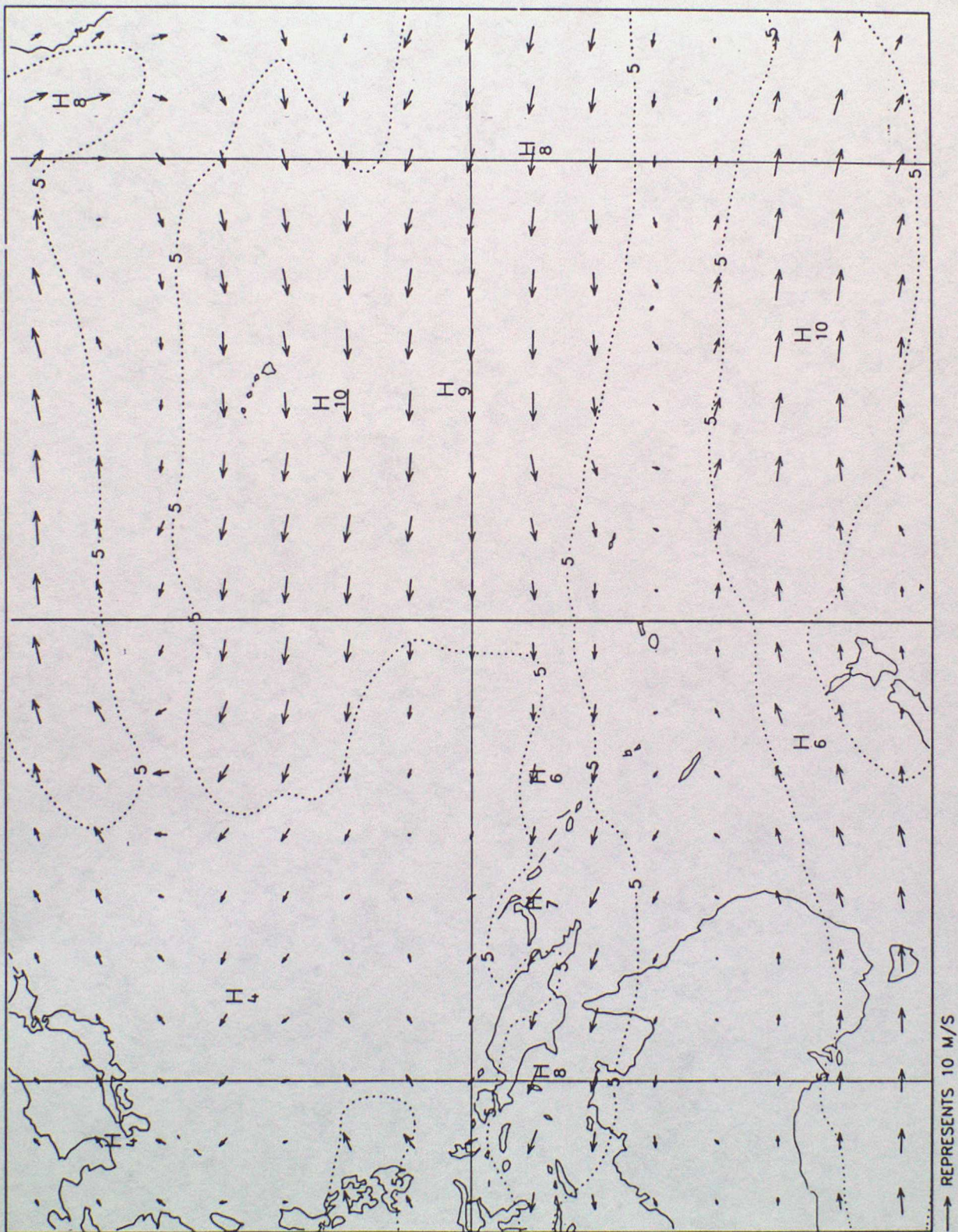


OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
850 MBS. BETWEEN LONGS. 0 E - 120 E

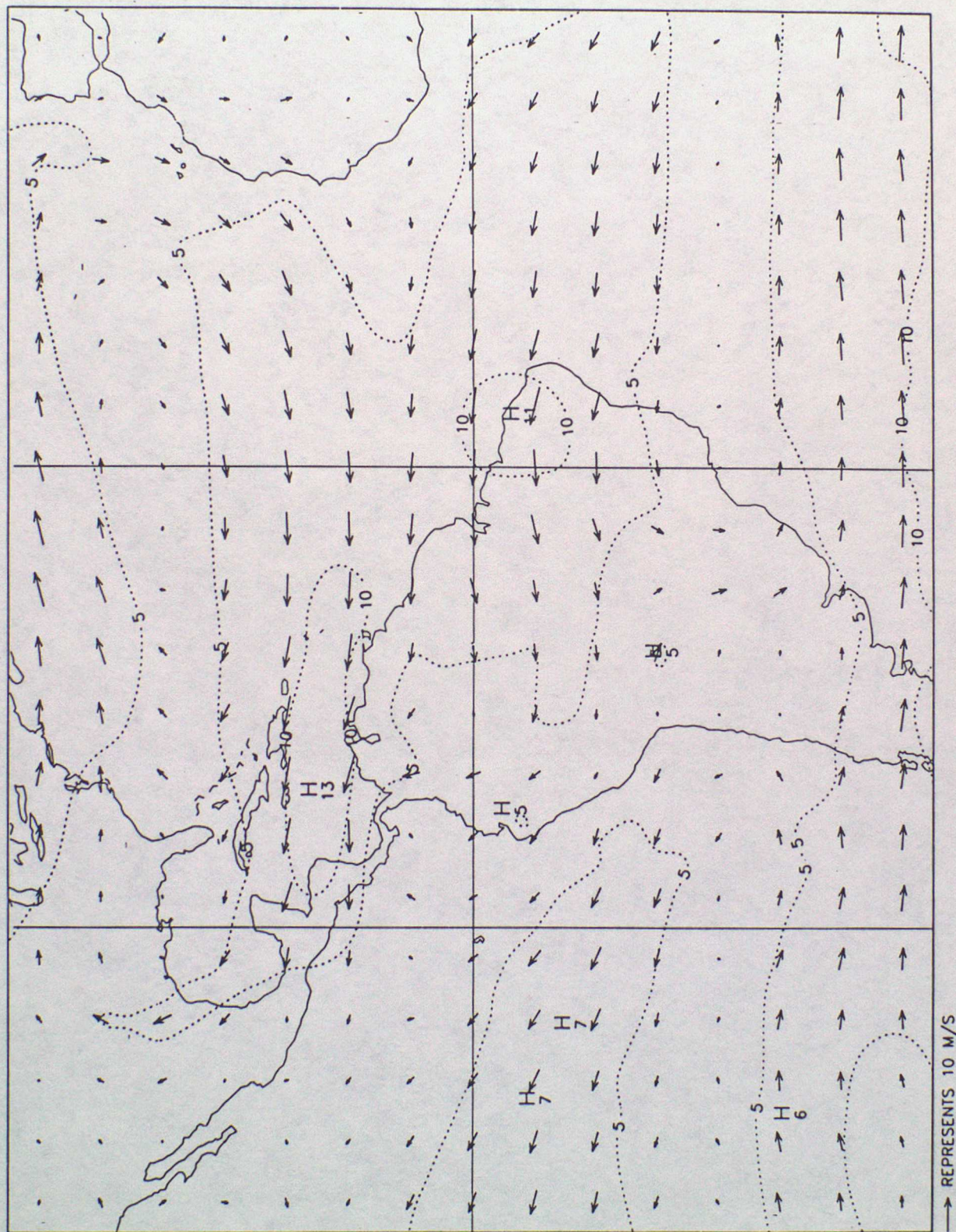


→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
850 MBs.
BETWEEN LONGS. 120 E - 120 W

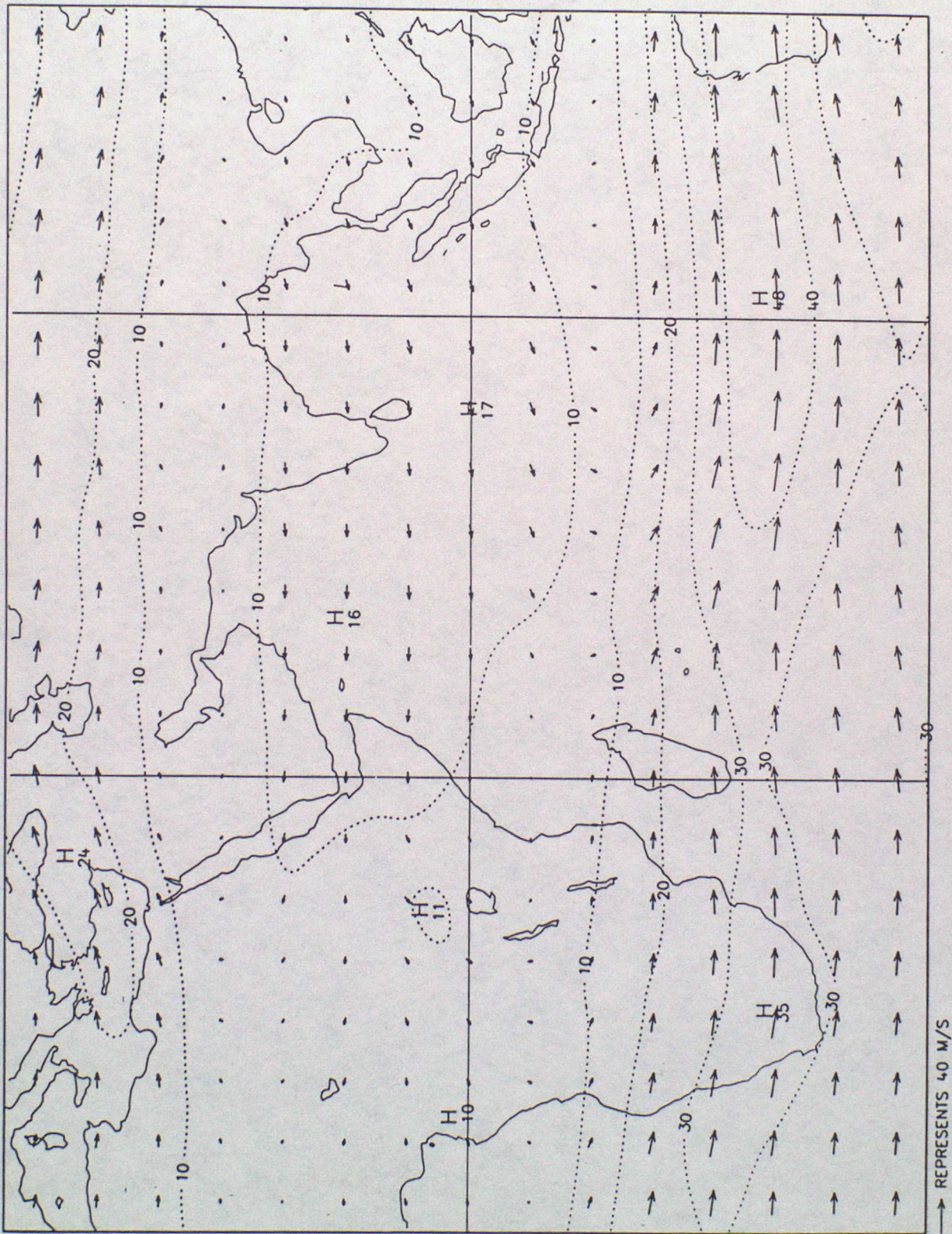


OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
850 MBS. BETWEEN LONGS. 120 W - 0 W



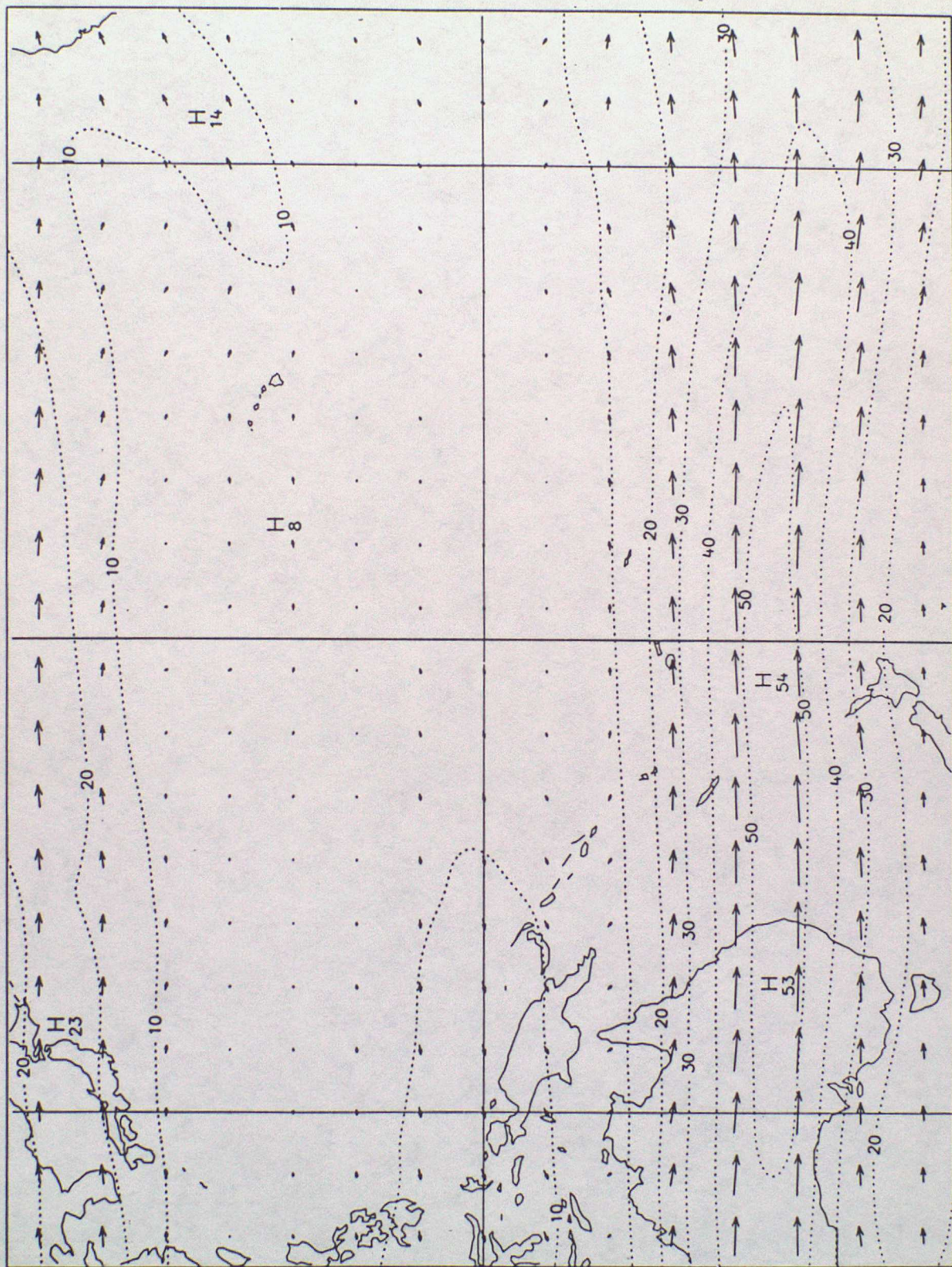
→ REPRESENTS 10 M/S

OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
250 MBS. BETWEEN LONGS. 0 E - 120 E



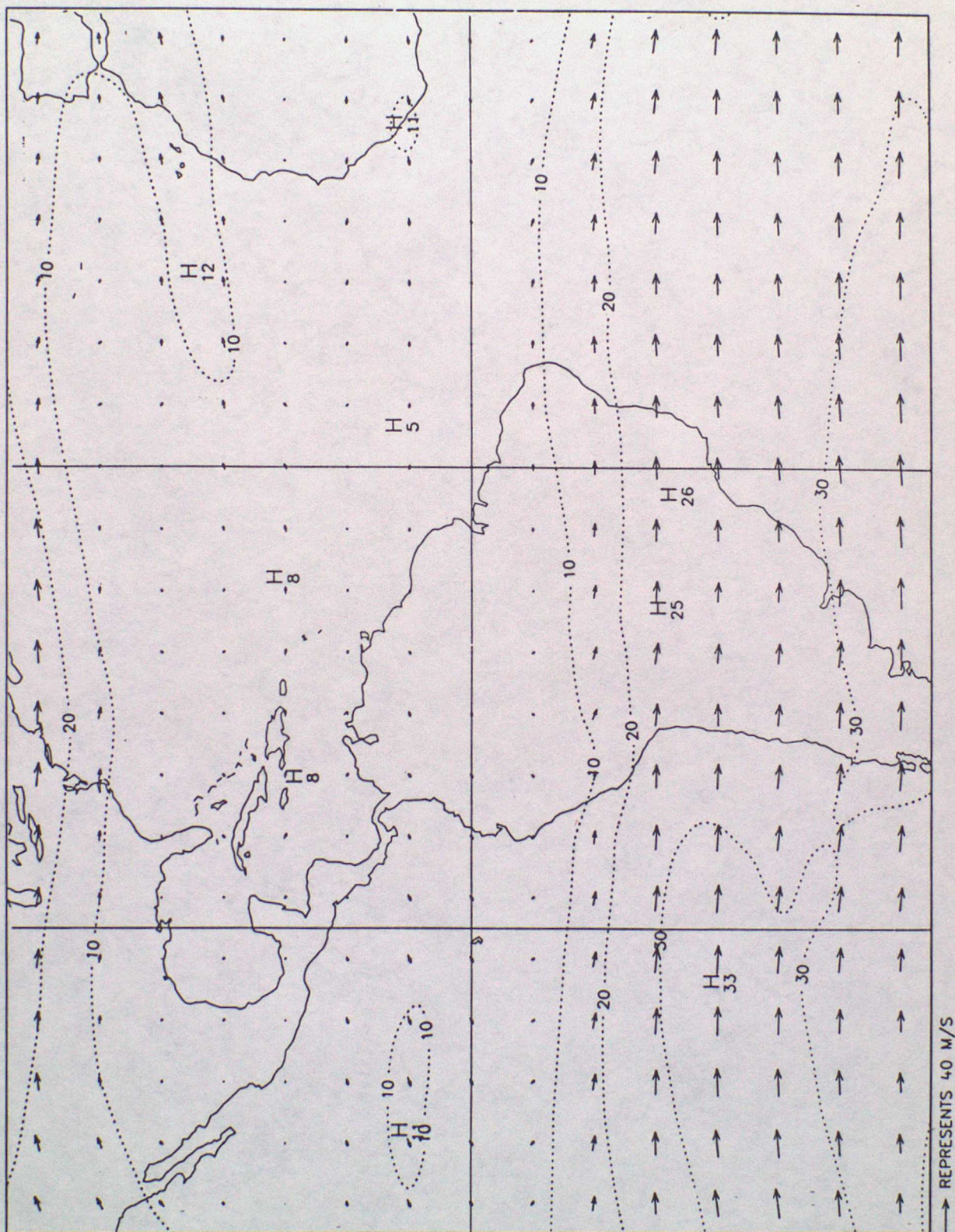
→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 WIND ARROWS AND ISOTACHS BETWEEN LATS. 45 N - 45 S.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 BETWEEN LONGS. 120 E - 120 W
 250 MBS.



→ REPRESENTS 40 M/S

OPERATIONAL ARCHIVE MEANS. JUN/JUL/AUG 1986
 WIND ARROWS AND ISOTACHS BETWEEN LATs. 45 N - 45 S.
 AVERAGE FROM 0Z ON 1/6/1986 DAY 152 TO 12Z ON 31/8/1986 DAY 243
 250 MBS. BETWEEN LONGS. 120 W - 0 W



→ REPRESENTS 40 M/S

