IND/WAVE HINDCAST EXTREMES FOR THE EAST COAST OF CANADA VOLUME II GEORGES BANK TROPICAL STORM HINDCAST

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1.0 INTRODUCTION

The Wind/Wave Hindcast Study described in Volume 1, was principally concerned with the extreme wave climate in all Canadian east coast offshore exploration areas associated with extratropical cyclones. As a result, the storm selection identified potentially severe wave-producing extratropical storms over the period 1957-1988 for three study areas; The Grand Banks, Scotian Shelf and Georges Bank. It is well known that at least the Georges Bank part of the study area is affected by tropical cyclones. As a separate task of the storm selection activity therefore, a population of cyclones of tropical origin which had retained tropical characteristics upon crossing Georges Bank, was identified from all available data sources. A detailed description of the storm selection and ranking process is given in Volume I of the study report. Briefly, a total of 33 historical hurricanes were selected, and then ranked within two separate groups, representing the historical periods 1938-1956, and 1967-1987. The latter period overlaps the period used for the extratropical storms. The earlier period was included in order that the exceptional storms which occurred in 1938, 1944 and the early 1950's would be included.

The hindcast approach has been applied to mixed storm-type problems. Whereas site specific extremes are usually developed for extratropical storm regimes, usually a "site-average" approach is followed to determine the distribution of extremes at a specific site in a broad region more or less homogeneously exposed to tropical cyclones. For example, in the Ocean Data Gathering Program Applications Phase (Ward, Borgman, and Cardone, 1979), the ODGP cyclone wind model and general wave hindcast model were applied to a small fraction of the total Gulf of Mexico population of historical hurricanes observed this century. Only the highest-ranked, more recent storms, for which good information was available, were hindcast, regardless of specific point of coast-crossing, since the extensive hurricane track climatology suggested that the broad stretch of coastline in the Northern Gulf of Mexico was uniformly exposed to storms.

To develop even site-average extremes for tropical cyclones on the Georges Bank would seem to require the hindcast of about 30 cyclones. This report describes the results of a pilot study of tropical cyclone generated sea-states on Georges Bank. Only ten storms were hindcast, using the ODGP wind and wave models specifically adapted on time (1-hour time step) and space (20 n. mi. grid spacing) scales needed for accurate hindcasting of tropical cyclones. The hindcast methods and results are summarized and interpreted in terms of the degree to which tropical cyclones need to be considered for a full description of the extreme wind and wave climate on Georges Bank. The tropical

cyclone hindcasts are also summarized and compared to the extratropical storm extremes in Volume I.

2.0 STORM SELECTION

The previously noted storm selection activity identified 15 storms in the early historical period and 18 storms in the recent historical period. While there are considerably more data available in more recent storms, 6 of the 10 storms selected from these populations for numerical hindcasting are from the earlier period. The objective of the hindcast storm selection was to represent a variety of storm types from within the more intense storms. Tropical cyclone storm properties, such as minimum central pressure, radius of maximum wind, forward velocity, ambient pressure field strength and orientation, all interact in a complex way to affect the wave generation potential. While it would probably require more than 10 storm hindcasts to study these parameter interactions for Georges Bank storms thoroughly, the ten storms selected provide an indication of the sensitivities associated with typical intense east coast storms.

Figure 2.1 shows the tracks of the storms selected. The tracks intersect Georges Bank over its whole width. Obviously, a wide range of storm motions are represented, including the very fast moving storms of September, 1944, and September, 1969. On the other hand, the storm of October, 1962 decelerated as it approached Georges Bank. The September, 1954 storm produced the highest significant wave height when hindcast with a simple parametric model as part of the storm screening. Indeed, parametric hindcasts of all storms selected for hindcasting here predicted peak significant wave heights of greater than 10 m.

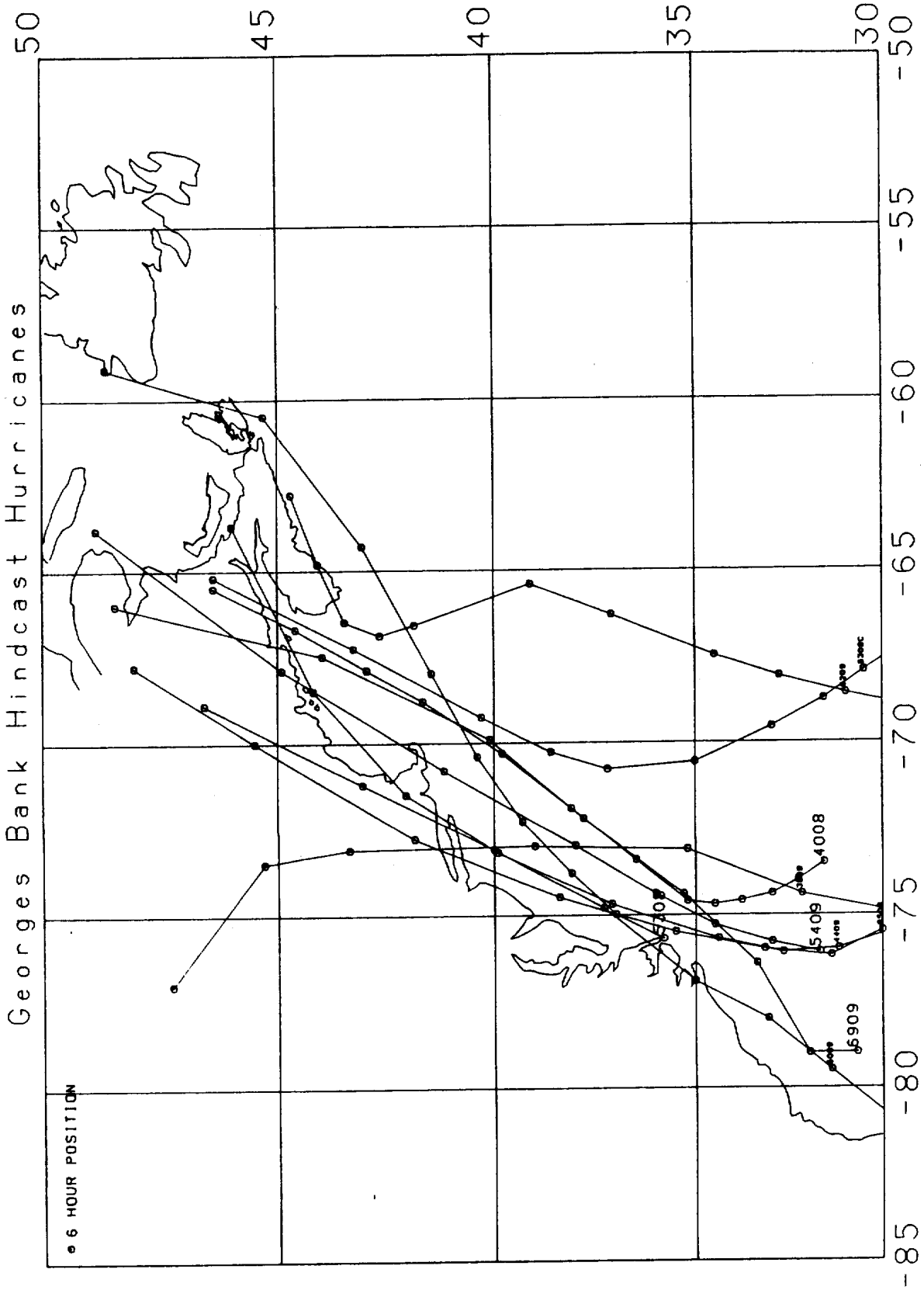


Figure 2.1 Tracks of Hindcast Storms (6-hour positions)

3.0 DATA ASSEMBLY

The meteorological data sets assembled for the storm survey and screening were also referred to for the specification of storm track and characteristics. The most useful of the sources are listed below:

1. the comprehensive magnetic tape file of North Atlantic tropical cyclones, known as HURDAT, which is maintained by the NOAA National Hurricane Center, Miami, Florida;

2. annual summaries of North Atlantic hurricanes published in the Monthly Weather Review;

3. storm reports on individual storms published by the National Hurricane Center;

4. published results of previous analyses of raw storm data aimed at establishing specific storm parameters;

5. estimates of storm location, maximum wind, radius of maximum wind and eye characteristics contained in "detailed vortex message" type reports filed by U.S.Navy and Air Force reconnaissance aircraft; and

6. sea level pressure maps and synoptic ship reports, mainly the NOAA Northern Hemisphere Surface Analysis-Final Analysis Series.

4.0 CYCLONE HINDCAST MODELS

As part of the Ocean Data Gathering Program (ODGP) (Cardone, Pierson, and Ward, 1976) noted in the Introduction, it was demonstrated that dynamically-based numerical models could realistically reproduce the surface wind and wave patterns in intense tropical cyclones. The data and experience of the ODGP has led to refined wind models and to the implementation of both first- and second-generation discrete spectral wave models. The models have been validated repeatedly against high quality data sets acquired in severe cyclones, as described below for both the wind and wave models.

4.1 TROPICAL CYCLONE SURFACE WIND MODEL

The model developed in the Ocean Data Gathering Program provides a complete description of the surface winds in the boundary layer of a tropical cyclone from the simple model parameters available in historical storms. The model is an application of a theoretical model of the horizontal air flow in the boundary layer of a moving vortex. That model solves, by numerical integration, the vertically-averaged equations of motion that govern a boundary layer subject to horizontal and vertical shear stresses. The equations are resolved in a Cartesian coordinate system whose origin translates at constant velocity (v_f) with the storm center of the pressure field associated with the cyclone. Variations in storm intensity and motion are represented by a series of quasi-steady-state solutions.

The non-linear system of equations is solved numerically on a fine-mesh nested grid system (inner nest grid spacing is prescribed). Transformation of the steady solution to earth-fixed coordinates provides the vertically-integrated wind field.

The Ocean Data Gathering Program wind model included an empirical scaling of the 20-metre wind speed from the vertically integrated wind. Since then we have been able to remove that scaling by replacing the surface drag treatment (Cardone et al., 1979) with a similarity boundary layer parameterization.

The model pressure field is described as the sum of an axially symmetric part $(\tilde{p})$ and a large-scale pressure field $(\bar{p})$ of constant gradient. The symmetric part is described in terms of an exponential pressure profile

$$\tilde{p} = \dot{p}_0 + \Delta p \exp(-r_a/r)$$

where p_o is central pressure, Δp is storm pressure anomaly, and r_a is a scaling radius nearly equivalent to the radius of maximum wind. The

model, therefore, can be initialized form parameters that are usually available from historical meteorological records: p_o, r_a, v_f and the ambient pressure field $(\bar{p})$. The entire wind field history is computed from knowledge of the variation of those parameters along the storm track.

For each hindcast, so-called "snapshots" are specified to describe the surface wind distribution on the nested grid as often as is necessary to describe different stages of intensity.

The interpolation of winds to the hindcast wave model grid from the snapshot wind fields, which are generated on a moving nested grid, proceeds in three stages. First, the hourly coordinates of the storm centre are linearly interpolated from a track table. Second, at each interval, the model wind components are linearly interpolated in time between adjacent snapshots. Third, for each grid point each hour, given the latitude and longitude of the eye and the latitude and longitude of the point, the smallest nest is found within which the grid point lies, and the wind components are interpolated bilinearly to the grid point from the four surrounding nest positions.

The model was validated originally against winds measured in several Ocean Data Gathering Program storms. It has since been applied to nearly every recent hurricane to affect the United States offshore area. Comparisons with overwater measurements from buoys and rigs support an accuracy specification of ±20 degrees in direction and ±2 metres/second in wind speed (1-hour average at 20-metre elevation). Most comparisons have been published (see e.g., Cardone et al., 1978; Ross and Cardone, 1978; Cardone and Ross, 1979; Forristall et al., 1977; 1978; 1980).

The cyclone wind model has also been applied to the study of tropical cyclones in foreign basins. The model has been used by the U. S. National Aeronautics and Space Administration (NASA) and by the National Oceanic and Atmospheric Administration (NOAA) to evaluate marine winds sensed remotely from SKYLAB and SEASAT in several Pacific Ocean typhoons. More recently, in proprietary industry-sponsored studies, the model has been applied to model tropical cyclones in the Caribbean Sea, offshore Borneo, in the Gulf of Thailand, the Arafura Sea, offshore NW Australia, and the South China Sea.

As presently formulated, the wind model is free of arbitrary calibration constants which might link the model to a particular storm type. The variations in structure between tropical storm types manifest themselves basically in the characteristics of the pressure field of the vortex itself and of the surrounding region. The interaction of a cyclone and its environment, therefore, can be accounted for by a proper specification of the input parameters. The

assignable parameters of the planetary boundary layer (PBL) formulation, namely planetary boundary layer depth and stability, and of the sea surface roughness formulation, can probably safely be taken from studies performed in the Gulf of Mexico, since tropical cyclones world-wide share a common set of thermodynamic constraints.

4.2 WAVE HINDCAST MODEL

Oceanweather presently operate deep-water spectral wave hindcast models incorporating first- and second-generation source term formulations and have experimentally checked a third-generation source term formulation.

The first-generation model, developed in the ODGP, is part of a family of fully-discrete spectral models which have evolved from the model originally proposed by Pierson, Tick and Baer (1966). The model is based on the energy balance equation, which is solved by the successive simulation of the processes of wave growth, dissipation and propagation, each time step on a regular grid array of points covering the spatial domain of interest.

The original ODGP model represented the Gulf of Mexico by a hexagonal system of 1265 points spaced 20 n. mi. apart, with the spectrum resolved in 15 frequency and 24 direction bands, and with a time step of one hour.

Substantial recalibration of the PTB model was effected in successive trial hindcasts of intense hurricane Camille. That calibration has been found to be quite stable in hindcasts of many well-documented storms which have occurred since the ODGP measurement period. Indeed, the model has provided a substantial improvement in hindcasts of extratropical storms as well. For the latter, different wind-field specification procedures, as described by Cardone et al. (1980), are necessary.

With an increased understanding of the effects of wave-wave interactions on the spectral energy balance, wave hindcast models continue to undergo refinement. At Oceanweather, a more recent deep-water model, known as SAIL and documented by Greenwood, Cardone and Lawson (1985), incorporates parts of the ODGP model but models the growth of wave energy on the forward face of the spectrum and the shape of the high-frequency part of the spectrum somewhat differently. The growth of wave energy with fetch and direction of that model follows a similarity scaling more closely than the ODGP, but the overall scale of the growth rates on the duration side follows the ODGP model, which is evidently finely tuned. Both models exhibit comparable levels of skill when tested against wave measurements in tropical cyclones.

The behaviour of about a dozen different wave models in ideal wave-generation situations was investigated in the wave model

intercomparison activity known as SWAMP, which was reported at the ITJCRM Symposium on Wave Dynamics and Radio Probing of the Sea Surface, held in Miami, Florida in May, 1981, and recently published (SWAMP, 1985). Large differences were found in SWAMEP when the models were tested against an idealized tropical cyclone wind field. In fact, there was found to be range of a factor of 2 in the prediction of peak significant wave height in the modelled storm. This case points out the importance of selecting a wave hindcast model which has been specifically validated in severe tropical cyclones.

The ODGP/SAIL family of hindcast models has indeed been checked against data in severe tropical cyclones, as reported in numerous published studies. For example, the ODGP hindcast model has, prior to this study, already been extensively verified against wave measurements acquired at platforms offshore Louisiana and Mississippi. Model hindcasts of maximum wave height were compared to measurements at the platforms in five Gulf of Mexico storms (Camille, 1969; Felice, 1979; Betsy, 1965; Carla, 1961; Hilda, 1964). Maximum wave height was derived from the first two moments of the hindcast spectrum using a statistical distribution of individual wave heights. Figure 4.1 shows the good agreement achieved.

Following the ODGP, the model was applied to every major storm to affect the U. S. Gulf or East Coast. Comparisons of measured and hindcast wave height and frequency spectra in hurricanes Eloise and Belle were reported by Cardone and Ross (1979). Comparisons in Gulf of Mexico Hurricanes Delia (1973) and Eloise (1975) of modelled and measured directional wave properties are reported by Forristall et al. (1978, 1980). The ODGP model has also been applied to extratropical cyclones, which, like tropical storms, are characterized by moving quasi-circular wind fields. Altogether, the model has been applied to four different storm types in three different basins. Reece and Cardone (1982) evaluated the skill of the model in hindcasting the maximum significant wave height and associated peak frequency at a specific site in a storm. In over 60 individual comparisons in 19 different storms, including the Gulf of Mexico hurricanes, the model exhibited negligible bias and rms errors of less than 1 metre in height and 1 second in peak frequency (Figure 4.2). The SAIL model has also been found to provide comparable accuracy. Finally, we have recently tested the world!s only operational third-generation wave model (the so-called 3G-WAM model) against three Gulf of Mexico tropical cyclones and find skill comparable to that of our calibrated first-and second-generation models, though at a great cost in computer resources.

In this study, the ODGP model was implemented, thereby also providing consistency with the model used for the extratropical storms. The model was implemented on a grid of much finer spacing than that of the

grid used for the winter storm hindcasts. The finer grid was designed to provide sufficient domain for simulation of the entire hindcast period of each cyclone. Specific attributes of the model adopted are given below.

Grid domain:	32°N – 44°N; 60°W – 78°W
Grid spacing:	20 n. mi. nominal
Projection:	transverse Mercator
Time Step:	1 hour
Angular spectral resolution:	24 directions, 15-degree bandwidth
Frequency spectral resolution:	16 frequencies
Spectral growth algorithm:	ODGP2 (deep water)
Propagation:	Interpolatory deep water

The model grid system is shown in Figure 4.3

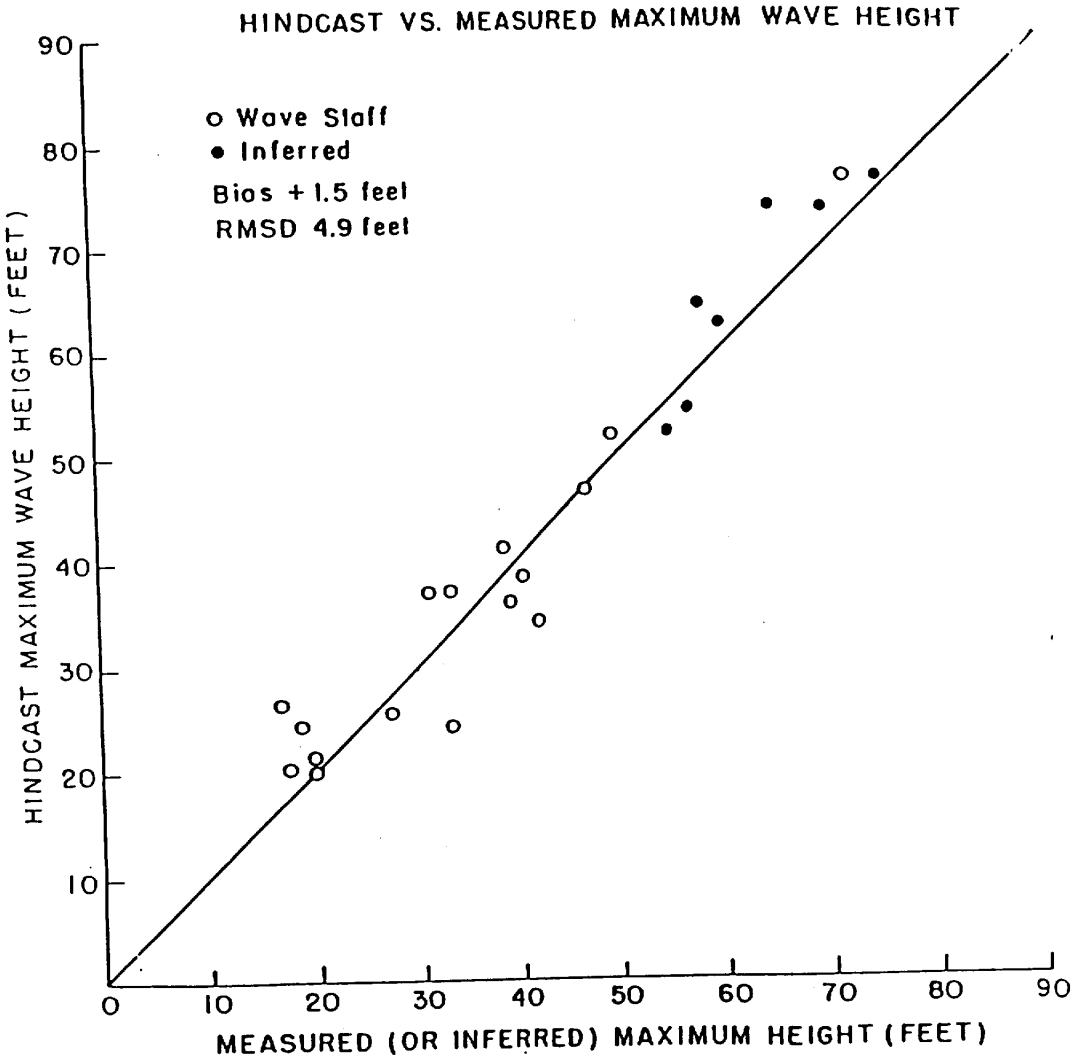
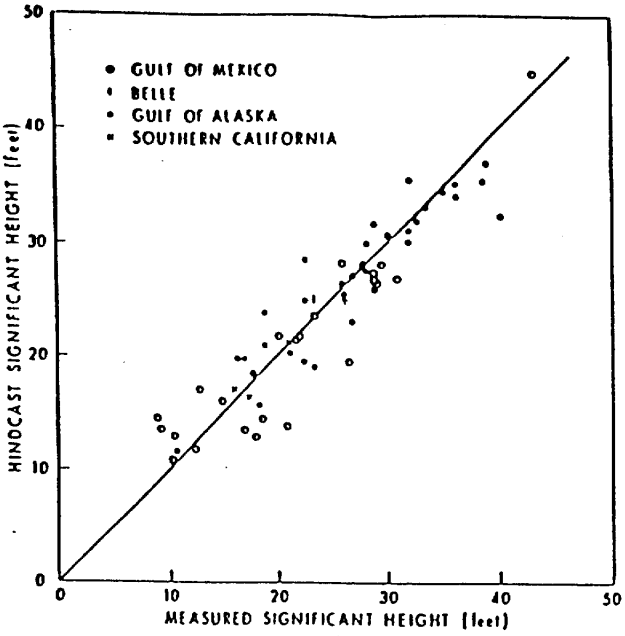


Figure 4.1 Comparison of measured and hindcast maximum wave height in Gulf of Mexico hurricanes



Scatter plot for significant wave height comparison

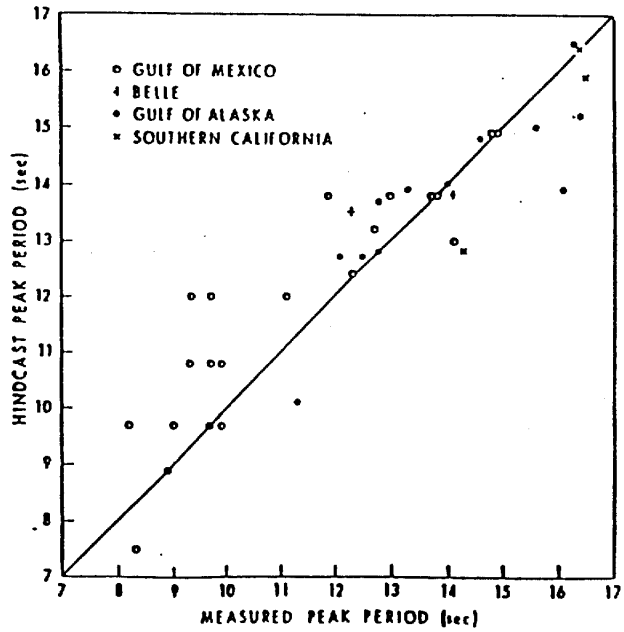


Figure 4.2 Comparison of measured and hindcast significant wave height and peak period in tropical and extratropical storms.

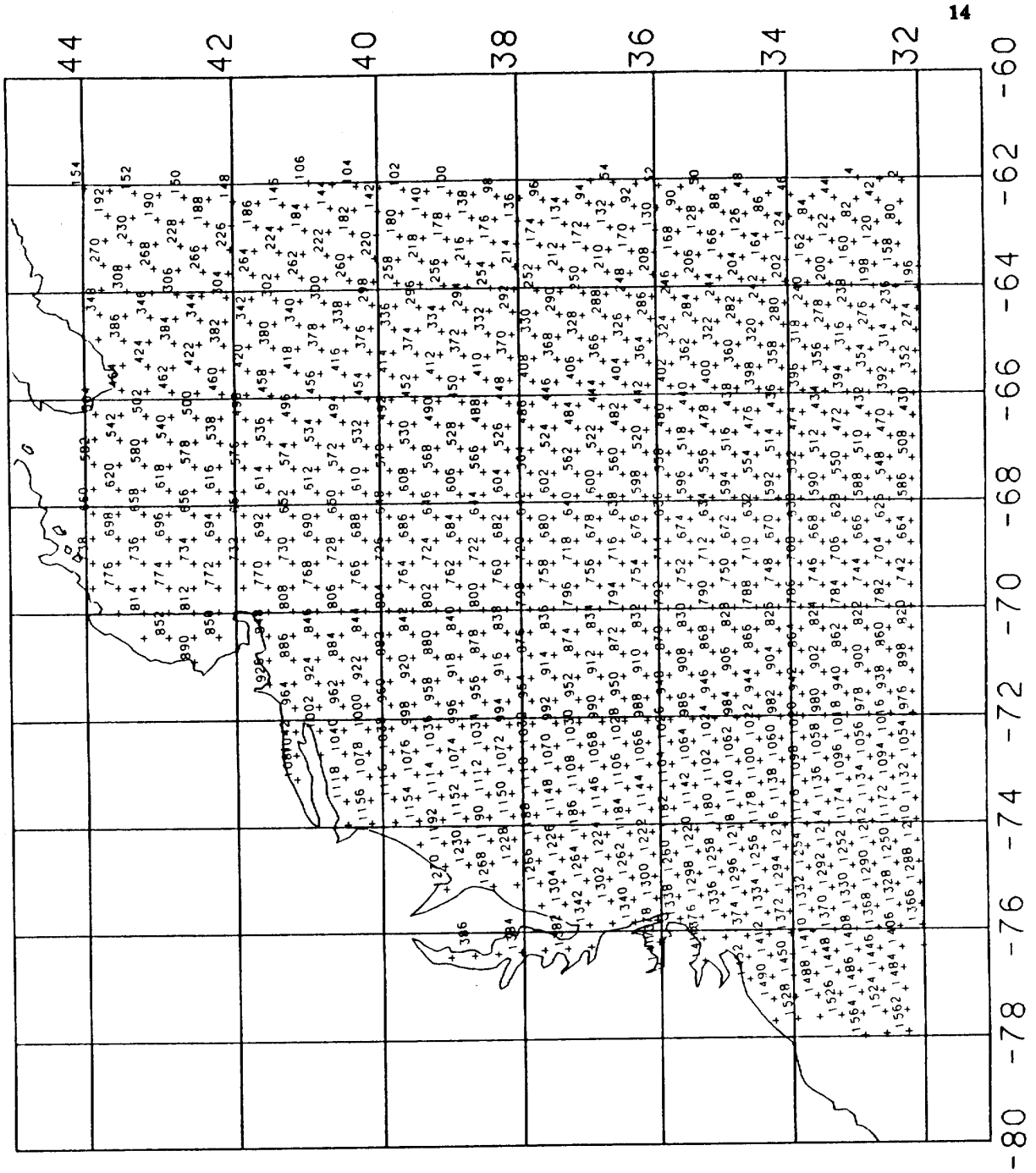


Figure 4.3 Hindcast Model Grid System

5.0 PRODUCTION HINDCASTS

5.1 PREPARATION OF STORM INPUT DATA

A cyclone hindcast comprises execution of two programs. The first program executed, generates a file of winds at 60-minute intervals on the wave hindcast model grid system, from supplied storm track and intensity inputs. The second program executed, runs the wave hindcast model.

Inputs to the wind program consist of a table of eye coordinates and specification of storm intensity and structure parameters for each "snapshot" to be generated by the vortex model. Input data for the storms hindcast are given in Appendix A .

Evaluation and quality control of the modelled winds consisted of review of time histories of modelled 20-m wind speed and direction at selected points, listing of the maximum wind on the grid each time step, and plotting of wind fields in the form of conventional wind "barbs" on the entire grid, at 6- or 12-hourly intervals. Appendix B gives the plotted wind fields for the all of the ten storms hindcast. These types of plots enable the comparisons of modelled winds and ship-report winds or winds observed at well-exposed island and coastal stations. In a few storms, these comparisons led to revision of the initially-derived storm input data, and recalculation of the wind fields.

5.2 SUMMARY OF HINDCAST RESULTS

The execution of a wave hindcast run produced basically two archive files of output.
One file holds fields of the following hindcast parameters at 60-minute intervals:
Wind speed (m/sec)
Wind direction (degrees, from which)
Friction velocity (m/sec)
Significant wave height (m)
Peak spectral period (sec)

Significant wave period (sec)
zero-crossing wave period (am)
Peak wave direction (degrees, to which)
Dominant wave direction (degrees, to which)
Spreading parameter
Vector mean wave direction (degrees, to which)

From these archived fields, tables of time histories of selected parameters were listed for selected points distributed over the Georges Bank area. These tables are included in Appendix B . The

significant wave height is also presented as a field for each storm in Appendix B , in the form of so-called "Custer plots", which show the distribution of significant wave height and vector mean wave direction as scaled vectors.

The second file archived holds the full two-dimensional hindcast spectrum each time step at four selected grid points.

A concise summary of hindcast results in terms of peak hindcast sea states and associated surface winds on Georges Bank, is presented in Table 5.1 . A wide range of sea states was evidently specified in these hindcasts. By far, the most severe storm was the hurricane of September, 1944, in which a combination of location, intensity and extent of the fetch zone of strongest winds to the right of the center, coupled with the storm translation speed to produce a strong resonant growth of sea states. This feature of fast-moving, and intense tropical cyclones of relatively large spatial scale has been noted previously, but we know of no direct measurements of sea states in such storms to verify the model behaviour in these relatively rare storm types. Storm forward speed also appeared to strongly influence the stage of wave development reached in hurricane Gerda, but in the opposite sense. The numerical hindcasts of peak sea states in this storm are quite a bit lower than expected, based upon the storm screening indications, and we speculate that storm translation speed, which was also very fast for Gerda, inhibited wave development, despite the strong peak wind speeds specified. The September, 1938 hurricane and Gloria, 1985 are both known to be "great" east coast storms, but because their tracks were west of Georges Bank, and perhaps because they weakened north of 40 degrees N, they evidently rank fairly low in terms of peak sea states in the area of interest.

A comparison of these results with hindcasts of extratropical winter storms in the Georges Bank shows that tropical cyclones can generate sea states of comparable magnitude. This suggests that particularly for descriptions of the extreme wave climate for rare recurrence intervals (50 years and greater), both storm types may have to be considered, and at least over the western parts of Georges Bank, a joint extremal analysis of hindcast results of both storm types might yield reliable extremes. However, over eastern Georges Bank, more storms need to be considered, and for those hindcast it is probably necessary to extend the grid system eastward.

Table 5.1 List of Georges Bank Tropical Cyclones (Hurricanes)

Maximum Significant Wave Height and Associated Parameters

Storm #	Name	YYMM	Grid Point #	WS	WD	HS	TP	VMD
1	Sept. '38	3809	496	16.00	157.0	4.67	10.34	331.0
			617	6.84	205.3	5.22	10.97	8.6
			695	18.01	166.6	5.73	11.33	332.0
2	Aug. '40	4008	617	32.57	185.4	9.08	12.46	9.7
			695	27.85	46.8	7.34	12.93	329.5
3	Sept. '44	4409	617	27.81	200.8	10.92	17.60	21.2
			695	31.53	203.7	12.21	17.50	19.3
4	Barbara	5308	496	24.59	220.7	7.55	12.78	33.4
			617	13.97	10.8	5.19	12.39	1.1
			695	13.09	22.3	4.50	12.19	351.8
5	Carol	5309	383	23.65	184.7	8.11	13.02	7.5
			496	25.29	187.1	8.81	13.68	6.7
			617	28.69	131.4	8.57	14.49	332.5
6	Edna	5409	617	10.47	263.7	6.54	16.57	30.1
			695	23.44	225.7	7.23	14.04	13.2
7	Donna	6009	496	14.20	156.3	3.52	8.54	325.7
			617	4.35	271.4	4.51	16.16	16.9
			695	8.22	268.9	4.96	16.23	22.9
8	Daisy	6210	383	21.78	143.3	8.58	13.66	327.4
			496	5.17	166.3	7.97	13.30	311.6
			617	8.15	85.9	7.54	12.82	290.9
			695	14.30	21.6	6.90	12.12	169.4
9	Gerda	6909	383	3.89	237.0	3.66	8.83	32.2
			496	3.04	229.2	4.14	9.63	38.4
			617	34.88	165.2	5.27	8.75	338.7
			695	16.97	289.0	3.88	9.20	331.0
10	Gloria	8509	496	7.61	220.0	3.61	14.23	27.0
			617	7.82	234.6	4.58	14.79	26.4
			695	18.59	192.8	5.16	10.59	354.1

WS - wind speed (meters/second)
WD - wind direction (from which/degrees)
HS - significant wave height (meters)
TP - peak period (seconds)
VMD - vector mean direction (to which/degrees)

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Appendix A

Cyclone wind program input data files for 10 hindcast hurricanes

Explanation of Inputs

NAME1: KZM is year and month of storm, KDH is day and hour of starting time step of run, KMIN is time step in minutes, DX is grid spacing of innermost nest of wind model in km.

NAME2: gives snapshot parameters for each of snapshots specified; EYELAT is latitude of eye, DIREC is the direction of motion (degrees), speed is the forward speed (knots), EYPRES is the central pressure (mb), RADIUS is the scale of radius of the exponential pressure profile (n. mi.), PFAR is peripheral pressure (mb), SGW is magnitude of the geostropic wind of the ambient pressure field (m/sec), AN1 is the direction of the ambient geostrophic wind (degrees, from which). Below the snapshot inputs is the table of hourly eye coordinates (hour, latitude in degrees and minutes, longitude in degrees and minutes, rotation angle) and the assignment of snapshots to locations along the track.

```
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 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 4008, kdh = 310600, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 1, nwind = 1599  $end
 $name2  eyelat = 32., direc = 325., speed =10., eypres = 972.,
   radius = 12., pfar = 1017., sgw = 10., an1 = 160., qfour = .false.  $end
 $name2  eyelat = 38., direc = 35., speed = 18., eypres = 972.,
   radius = 16., pfar = 1013., sgw = 8., an1 = 160., qfour = .false.  $end
 $name2  eyelat = 42., direc = 30., speed = 22., eypres = 975.,
   radius = 20., pfar = 1013., sgw = 6., an1 = 145., qfour = .false.  $end
 $name2  eyelat = 46., direc = 32., speed = 19., eypres = 990.,
   radius = 20., pfar = 1013., sgw = 8., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0  31  36 -73  30   1
   6  32  18 -74  00
  12  33  00 -74  24
  18  33  48 -74  36
  24  34  30 -74  42
  30  35  12 -74  36
  36  36  30 -73  24
  42  38  06 -71  54   2
  48  39  48 -70  18
  54  41  42 -68  48   3
  60  43  00 -67  54
  66  44  36 -66  42
  72  46  24 -65  30   4
 999
 $what  kstep2 = 72  $end
```

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   nstres = 0, kstres = 0, kwind = 1, nwind = 1599  $end
 $name2  eyelat = 30., direc = 360., speed = 13., eypres = 940.,
   radius = 30., pfar = 1017., sgw = 5., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 33., direc = 360., speed = 16., eypres = 940.,
   radius = 38., pfar = 1017., sgw = 5., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 34., direc = 360., speed = 16., eypres = 948.,
   radius = 50., pfar = 1017., sgw = 5., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 40., direc = 360., speed = 30., eypres = 955.,
   radius = 70., pfar = 1017., sgw = 5., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 42., direc = 360., speed = 28., eypres = 966.,
   radius = 70., pfar = 1016., sgw = 4., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 46., direc = 360., speed = 35., eypres = 982.,
   radius = 70., pfar = 1016., sgw = 4., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0  29  42 -75  30   1 -35
   6  31  12 -76  00     -20
  12  32  42 -76  06   2 -05
  18  34  24 -75  42   3  15
  24  37  06 -74  42      15
  30  39  54 -73  12   4  25
  36  42  06 -71  30   5  30
  42  44  12 -68  30      45
  48  46  00 -63  42   6  60
 999
 $what  kstep2 = 48  $end
```

```
DISK$USER:[DNV2.6TYPHS]055309.DAT;1

 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 5309, kdh = 051200, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 1, nwind = 1599  $end
 $name2  eyelat = 29., direc = 330., speed =17., eypres = 937.,
   radius = 15., pfar = 1014., sgw = 5., an1 = 145., qfour = .false.  $end
 $name2  eyelat = 33., direc = 335., speed = 14., eypres = 958.,
   radius = 30., pfar = 1016., sgw = 7., an1 = 160., qfour = .false.  $end
 $name2  eyelat = 40., direc = 25., speed = 16., eypres = 972.,
   radius = 40., pfar = 1017., sgw = 7., an1 = 185., qfour = .false.  $end
 $name2  eyelat = 46., direc = 25., speed = 34., eypres = 980.,
   radius = 80., pfar = 1016., sgw = 6., an1 = 175., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0   29   12 -67   06    1
   6   29   54 -67   36
  12   30   30 -68   00
  18   31   36 -68   48
  24   33   00 -69   36    2
  30   35   00 -70   36
  36   37   12 -70   48
  42   38   36 -70   18
  48   40   18 -69   18    3
  54   43   18 -67   18
  60   46   24 -65   12    4
 999
 $what  kstep2 = 60  $end
```

DISK$USER:[DNV2.6TYPHS]055409.DAT;1

```
 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 5409, kdh = 101200, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 1, nwind = 1599  $end
 $name2  eyelat = 30., direc = 360., speed =12., eypres = 960.,
   radius = 22., pfar = 1013., sgw = 8., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 35., direc = 360., speed = 17., eypres = 943.,
   radius = 22., pfar = 1013., sgw = 8., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 38., direc = 360., speed = 20., eypres = 947.,
   radius = 22., pfar = 1013., sgw = 6., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 45., direc = 360., speed = 40., eypres = 982.,
   radius = 35., pfar = 1011., sgw = 5., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 49., direc = 360., speed = 45., eypres = 990.,
   radius = 35., pfar = 1011., sgw = 5., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0  31  42 -76  06   1   0
   6  33  00 -75  48       0
  12  34  30 -75  18   2  15
  18  36  00 -74  24      25
  24  38  00 -73  00   3  25
  30  41  12 -70  48      27
  36  44  54 -67  54   4  30
  42  48  54 -63  48   5  35
 999
 $what  kstep2 = 42  $end
```

DISK$USER:[DNV2.6TYPHS]056210.DAT;1

```
 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 6210, kdh = 050000, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 1, nwind = 1599  $end
 $name2  eyelat = 25., direc = 360., speed = 9., eypres = 984.,
   radius = 60., pfar = 1014., sgw = 6., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 29., direc = 360., speed = 10., eypres = 967.,
   radius = 60., pfar = 1014., sgw = 7., an1 = 160., qfour = .false.  $end
 $name2  eyelat = 33., direc = 360., speed = 19., eypres = 965.,
   radius = 80., pfar = 1013., sgw = 6., an1 = 140., qfour = .false.  $end
 $name2  eyelat = 37., direc = 360., speed = 24., eypres = 968.,
   radius = 100., pfar = 1012., sgw = 8., an1 = 120., qfour = .false.  $end
 $name2  eyelat = 42., direc = 360., speed = 24., eypres = 975.,
   radius = 200., pfar = 1013., sgw = 7., an1 = 120., qfour = .false.  $end
 $name2  eyelat = 43., direc = 360., speed = 9., eypres = 977.,
   radius = 200., pfar = 1013., sgw = 6., an1 = 120., qfour = .false.  $end
 $name2  eyelat = 45., direc = 360., speed = 15., eypres = 985.,
   radius = 200., pfar = 1013., sgw = 6., an1 = 120., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0   25   30 -69   24    1 -45
   6   26   24 -69   48      -15
  12   27   12 -68   48       20
  18   28   00 -69   24       05
  24   29   12 -69   00    2 -10
  30   31   00 -68   36        0
  36   32   48 -68   06    3  15
  42   34   30 -67   30       20
  48   37   06 -66   18    4  10
  54   39   06 -65   24       20
  60   41   54 -66   36    5 -25
  66   42   42 -66   54      -20
  72   43   30 -66   30    6  20
  78   44   06 -64   48       65
  84   44   42 -62   48    7  65
999
 $what  kstep2 = 84  $end
```

```
DISK$USER:[DNV2.6TYPHS]056909.DAT;1

 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 6909, kdh = 081200, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 1, nwind = 1599  $end
 $name2  eyelat = 31., direc = 35., speed =15., eypres = 1002.,
   radius = 22., pfar = 1013., sgw = 6., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 33., direc = 40., speed = 18., eypres = 991.,
   radius = 17., pfar = 1011., sgw = 8., an1 = 190., qfour = .false.  $end
 $name2  eyelat = 38., direc = 40., speed = 28., eypres = 984.,
   radius = 24., pfar = 1013., sgw = 7., an1 = 200., qfour = .false.  $end
 $name2  eyelat = 42., direc = 35., speed = 32., eypres = 979.,
   radius = 32., pfar = 1013., sgw = 5., an1 = 200., qfour = .false.  $end
 $name2  eyelat = 48., direc = 30., speed = 36., eypres = 983.,
   radius = 40., pfar = 1013., sgw = 4., an1 = 200., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0  30  42 -79  00   1
   6  32  00 -78  00
  12  33  24 -76  24   2
  18  35  18 -74  24
  24  37  48 -72  12   3
  30  40  06 -69  54   4
  36  44  00 -67  30   4
  42  48  30 -66  00   5
 999
 $what  kstep2 = 42  $end
```

```
DISK$USER:[RBEAL.PERD.TYPHOON]053809.DAT;2

 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 3809, kdh = 201800, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 10, nwind = 1599  $end
 $name2 eyelat=28.,direc=345.,speed=12.,eypres=920.,
  radius=50.,pfar=1014.,sgw=9.,an1=160.,qfour=.false.  $end
 $name2 eyelat=41.,direc=357.,speed=42.,eypres=940.,
  radius=50.,pfar=1010.,sgw=7.,an1=180.,qfour=.false.  $end
 $name2 eyelat=47.,direc=310.,speed=26.,eypres=987.,
  radius=50.,pfar=1007.,sgw=6.,an1=200.,qfour=.false.  $end
 $name2  eyelat=999  $end
   0   28   00 -74   48    1
   6   29   48 -74   54
  12   32   12 -74   24
  18   35   12 -73   06
  24   39   00 -73   00
  27   41   12 -73   03    2
  30   43   24 -73   06
  36   45   18 -73   30
  42   47   18 -77   00    3
 999
 $what  kstep2=42  $end
```

```
DISK$USER:[RBEAL.PERD.TYPHOON]055308.DAT;1

 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 5308, kdh = 140600, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 10, nwind = 1599  $end
 $name2  eyelat = 36., direc = 10., speed = 12., eypres = 987.,
   radius = 90., pfar = 1018., sgw = 4., an1 = 170., qfour = .false.  $end
 $name2  eyelat = 39., direc = 45., speed = 15., eypres = 984.,
   radius = 70., pfar = 1016., sgw = 5., an1 = 190., qfour = .false.  $end
 $name2  eyelat = 42., direc = 60., speed = 20., eypres = 984.,
   radius = 50., pfar = 1014., sgw = 6., an1 = 210., qfour = .false.  $end
 $name2  eyelat = 49., direc = 15., speed = 36., eypres = 986.,
   radius = 90., pfar = 1014., sgw = 3., an1 = 240., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0  35  48 -75  42   1
   6  37  00 -75  00
  12  38  06 -73  48
  18  39  18 -72  18   2
  24  40  24 -70  24
  30  41  30 -68  00   3
  36  43  06 -64  18
  42  45  18 -60  30
  48  48  42 -59  06   4
 999
 $what  kstep2 = 48  $end
```

```
DISK$USER:[RBEAL.PERD.TYPHOON]056009.DAT;1

 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 6009, kdh = 111200, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 10, nwind = 1599  $end
 $name2  eyelat = 30., direc = 360., speed = 14., eypres = 970.,
   radius = 35., pfar = 1012., sgw = 4., an1 = 90., qfour = .false.  $end
 $name2  eyelat = 33., direc = 360., speed = 20., eypres = 958.,
   radius = 46., pfar = 1012., sgw = 5., an1 = 90., qfour = .false.  $end
 $name2  eyelat = 37., direc = 360., speed = 25., eypres = 960.,
   radius = 70., pfar = 1010., sgw = 6., an1 = 90., qfour = .false.  $end
 $name2  eyelat = 43., direc = 360., speed = 32., eypres = 975.,
   radius = 80., pfar = 1010., sgw = 6., an1 = 90., qfour = .false.  $end
 $name2  eyelat = 47., direc = 360., speed = 32., eypres = 989.,
   radius = 80., pfar = 1010., sgw = 6., an1 = 90., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0  29  54 -80  48   1  20
   6  31  24 -79  30      28
  12  33  06 -78  00   2  36
  18  35  00 -76  54      34
  24  37  18 -74  48   3  32
  30  40  00 -73  06      28
  36  43  06 -71  12   4  26
  42  46  36 -68  54   5  26
 999
 $what  kstep2 = 42  $end
```

```
DISK$USER:[RBEAL.PERD.TYPHOON]058509.DAT;1

 $terrain  lland = 0, zcoeff = 12*0.  $end
 $name1  kzm = 8509, kdh = 260000, kmin = 60, dx = 10,
   nstres = 0, kstres = 0, kwind = 10, nwind = 1599  $end
 $name2  eyelat = 28., direc = 360., speed = 12., eypres = 940.,
   radius = 25., pfar = 1013., sgw = 7., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 31., direc = 360., speed = 14., eypres = 944.,
   radius = 30., pfar = 1013., sgw = 7., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 33., direc = 360., speed = 18., eypres = 942.,
   radius = 35., pfar = 1013., sgw = 7., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 38., direc = 360., speed = 26., eypres = 951.,
   radius = 40., pfar = 1013., sgw = 7., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 46., direc = 360., speed = 40., eypres = 986.,
   radius = 50., pfar = 1013., sgw = 7., an1 = 180., qfour = .false.  $end
 $name2  eyelat = 999  $end
   0  27  48 -74  00   1 -45
   6  28  54 -75  00     -30
  12  30  00 -75  30     -30
  18  31  24 -76  12   2 -20
  24  33  12 -76  00   3  10
  30  35  30 -75  30      15
  36  38  24 -74  30   4  15
  42  41  54 -72  48      25
  48  45  30 -70  00   5  30
  54  48  06 -67  48   5  35
 999
 $what  kstep2 = 54  $end
```

Appendix B

Display of hindcast fields of 20-m average wind speed and direction as wind vector/barbs (knots) at 6-hourly intervals, followed by display of hindcast fields of significant wave height and vector mean wave direction as scaled vectors at 6-hourly intervals.

Time history of selected wind and wave parameters at six grid points.

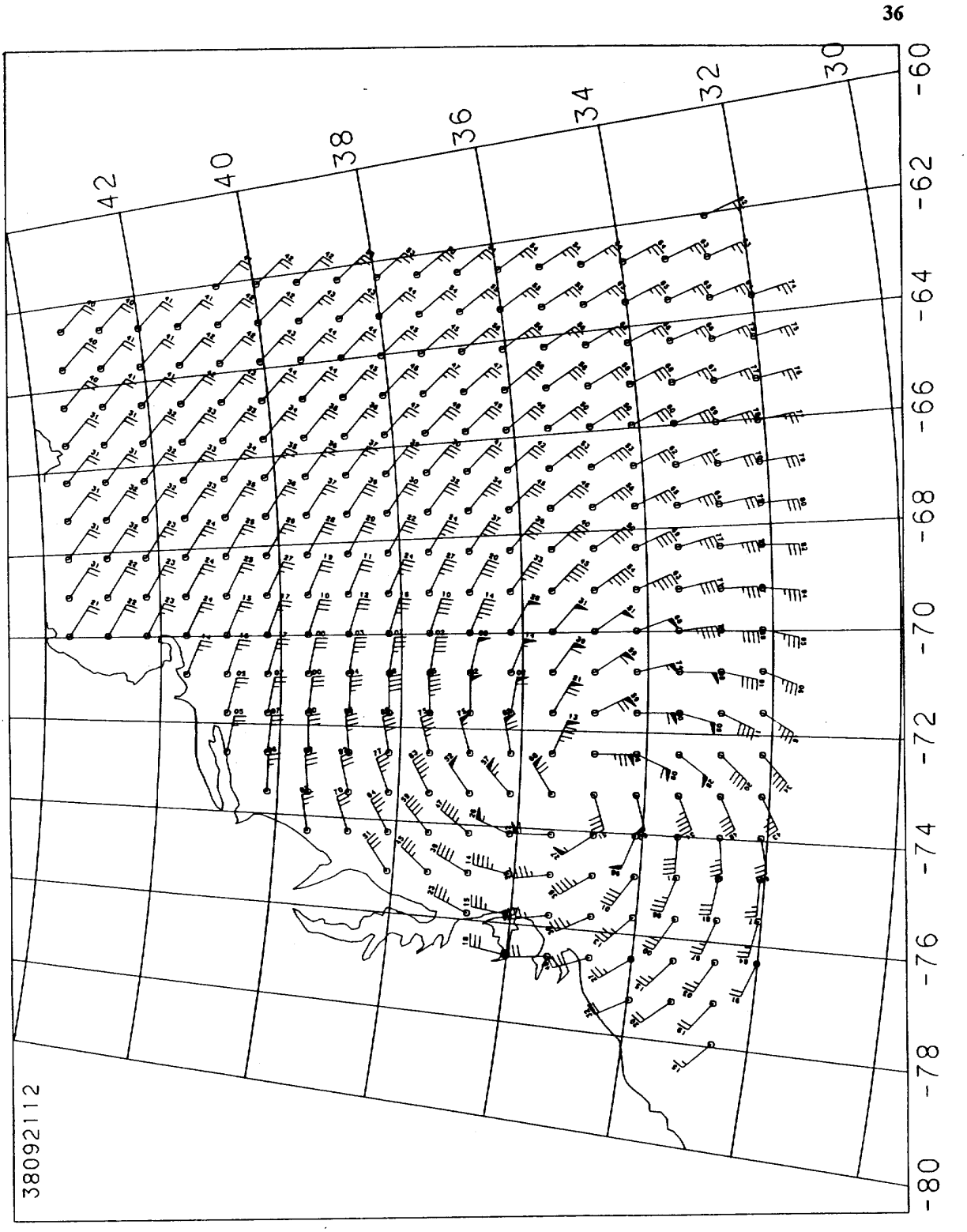
Selected grid points:	G. P. #	Latitude	Longitude
	383	42.47	64.99
	496	41.18	66.43
	500	42.52	66.36
	617	42.55	67.72
	691	41.22	68.66
	695	42.57	68.63

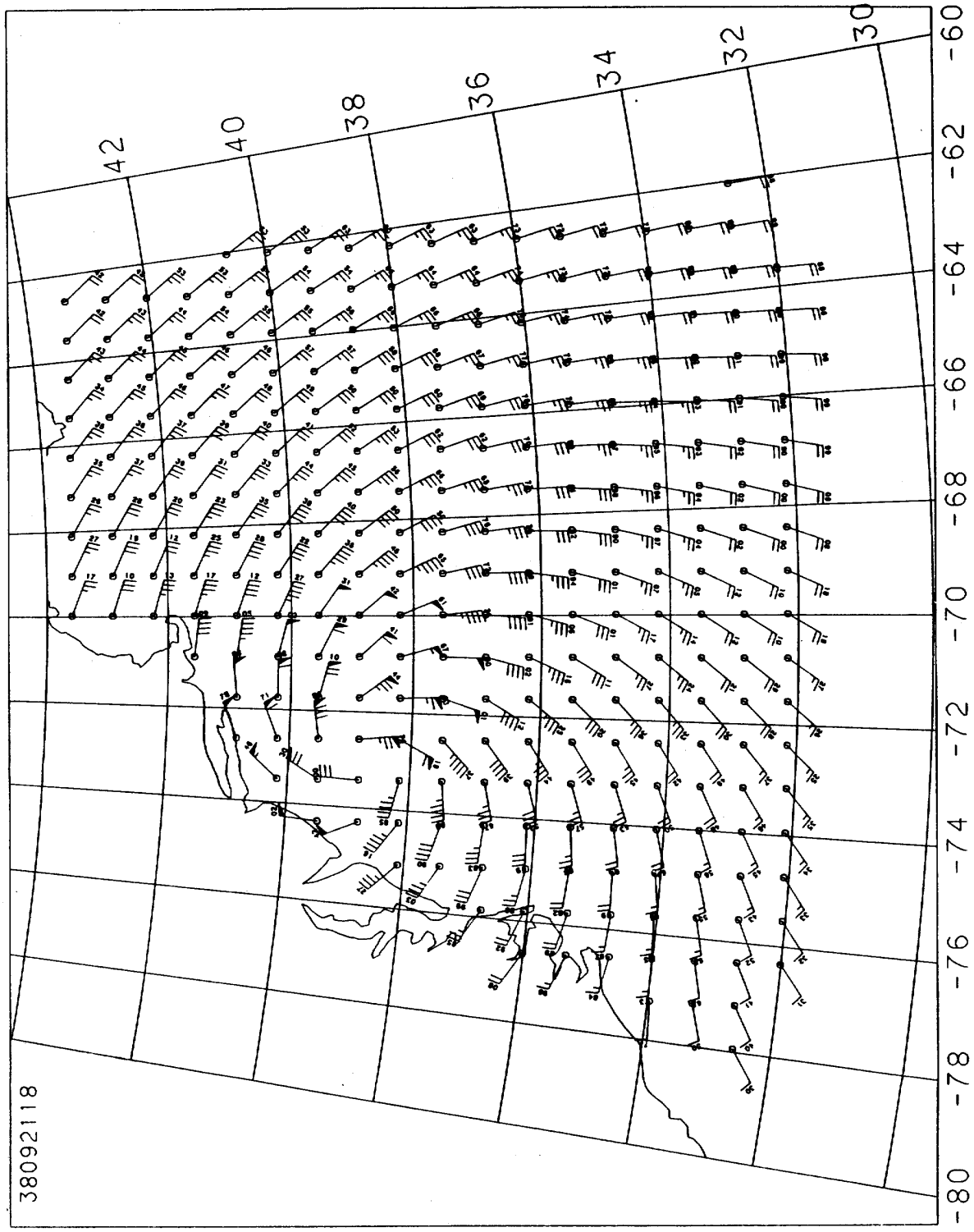
Table entries :

ddhh	day and hour (GMT)
WS	wind speed (m/sec)
WD	wind direction (degrees, from which)
U*	friction velocity (m/sec)
Hs	significant wave height (m)
Tp	spectral peak period (sec)
VMD	vector mean wave direction (degrees, to which)

STORM #1

Hurricane of September 1938


36
42
40
38
36
34
32
30
-60
-62
-64
-66
-68
-70
-72
-74
-76
-78
-80
38092112


42
40
38
36
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32
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-64
-66
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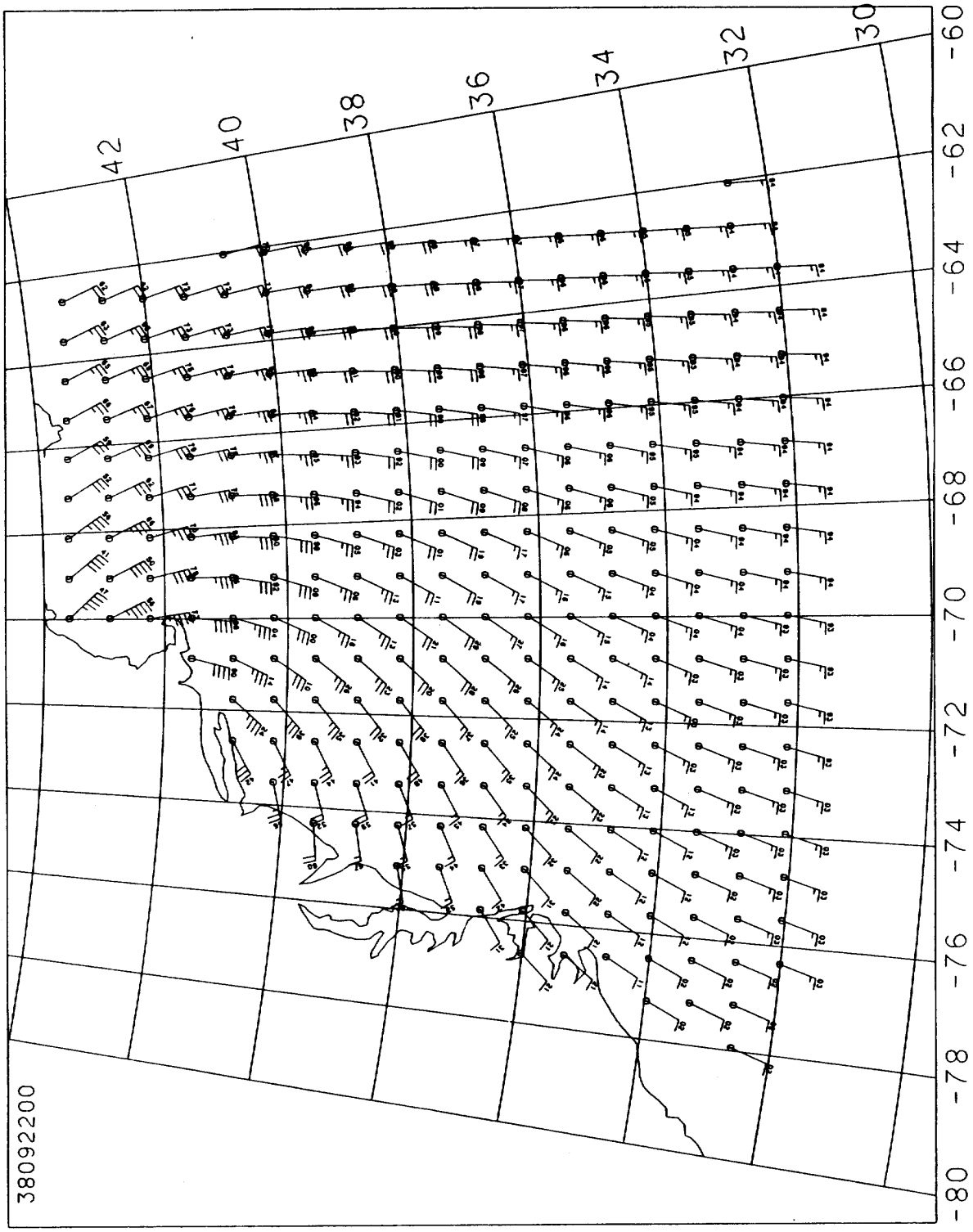
-70
-72
-74
-76
-78
-80
38092118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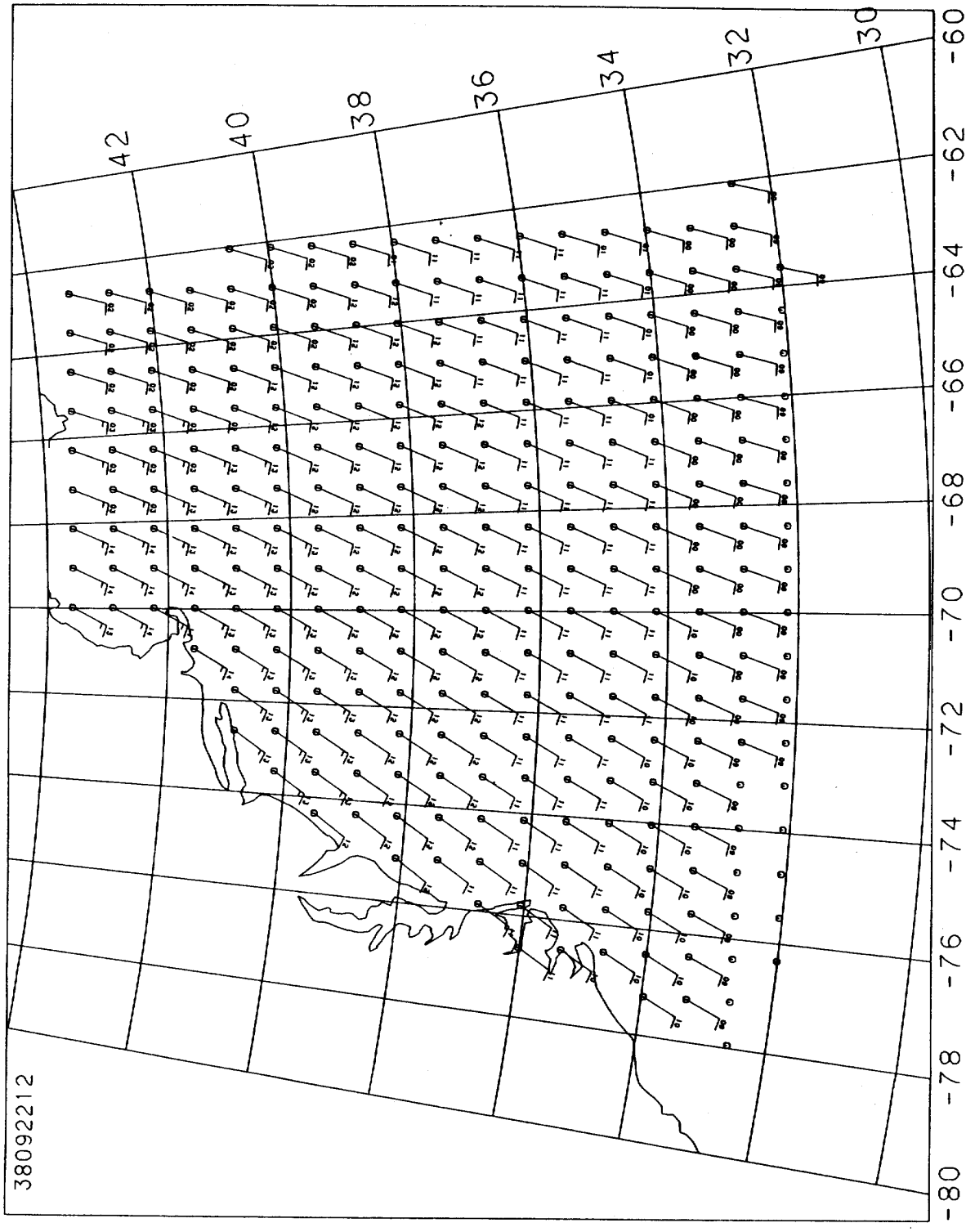
38092200


42
40
38
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-60
-62
-64
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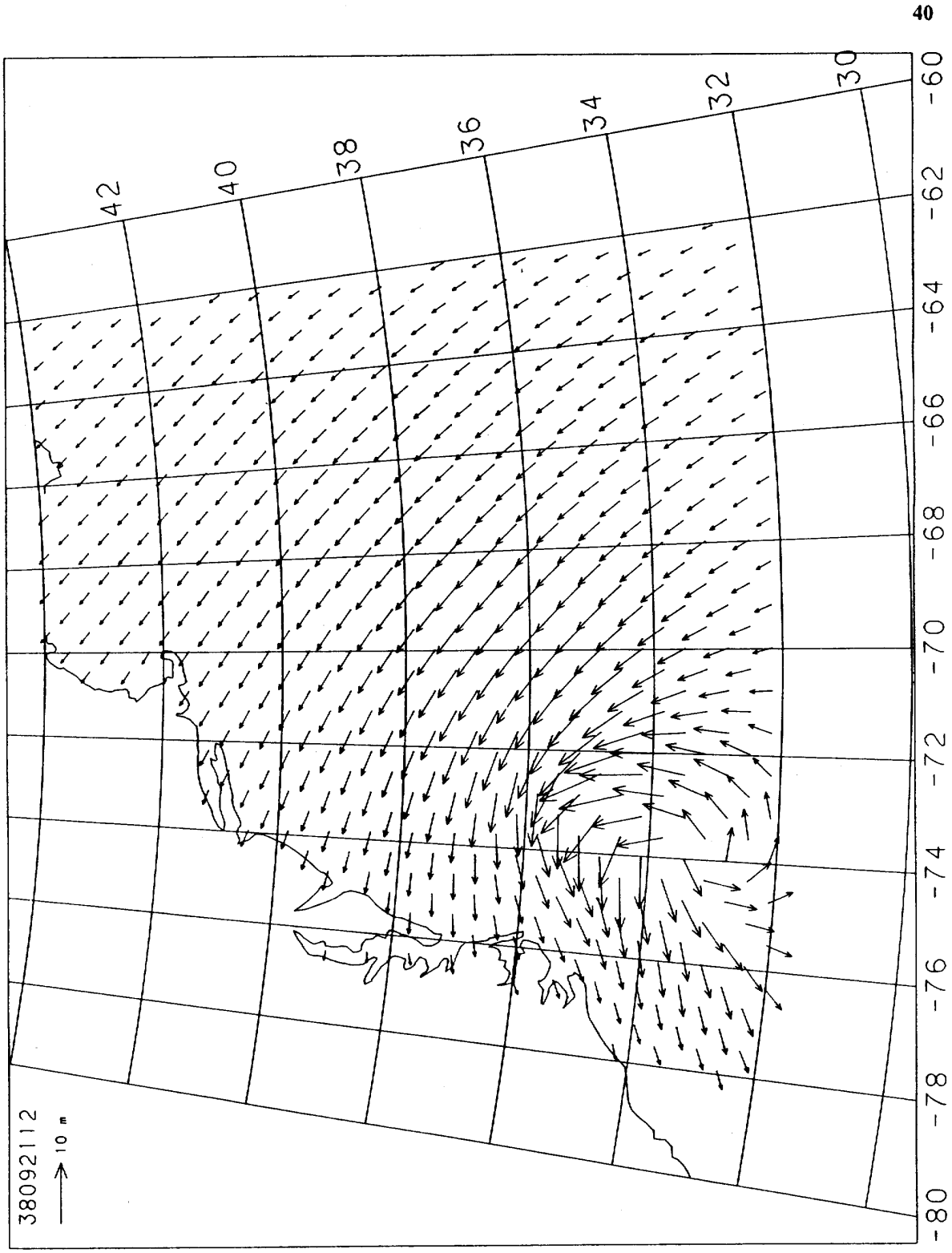
-72
-74
-76
-78
-80
38092212


40
42
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38
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34
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-62
-64
-66
-68
-70
-72
-74
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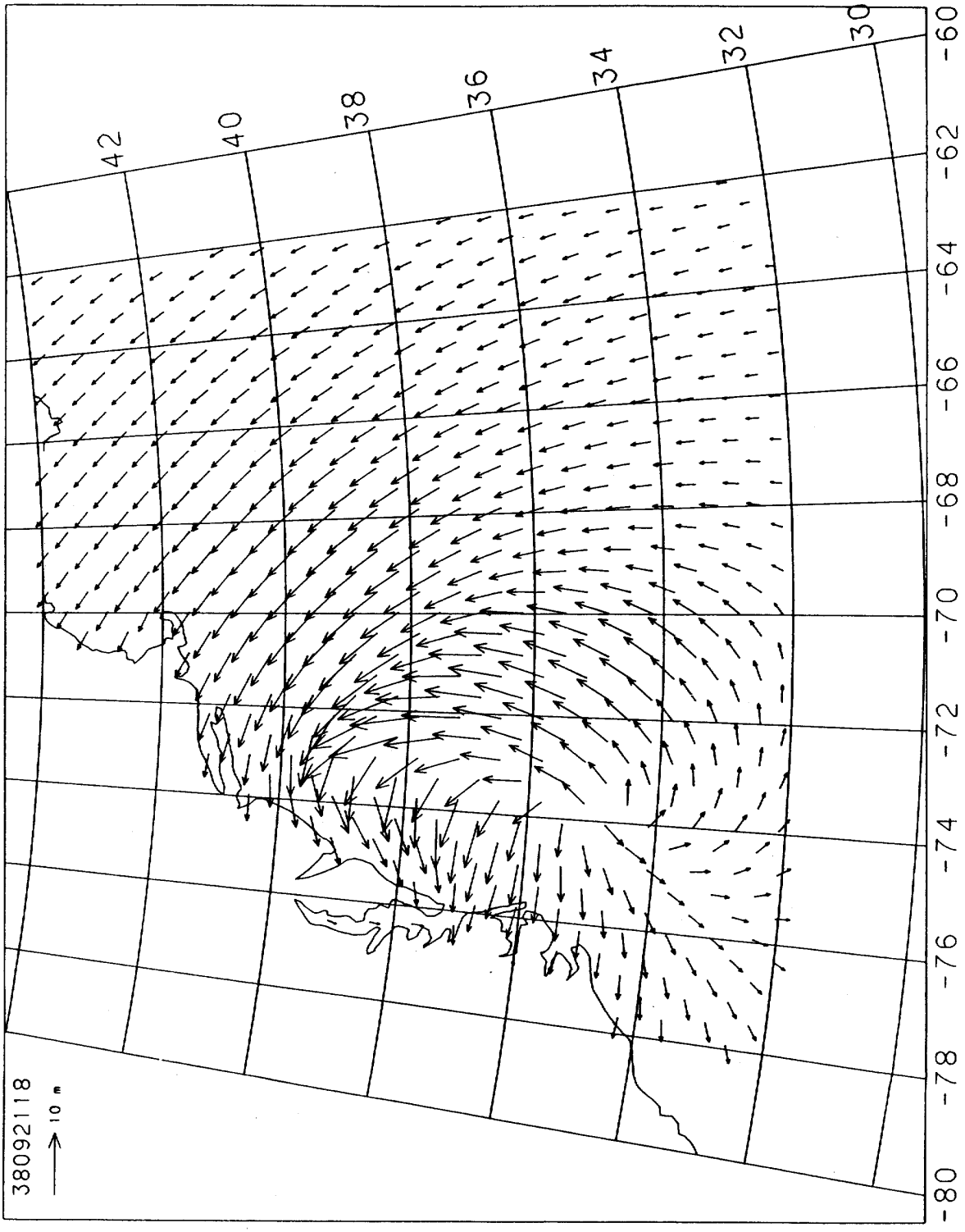
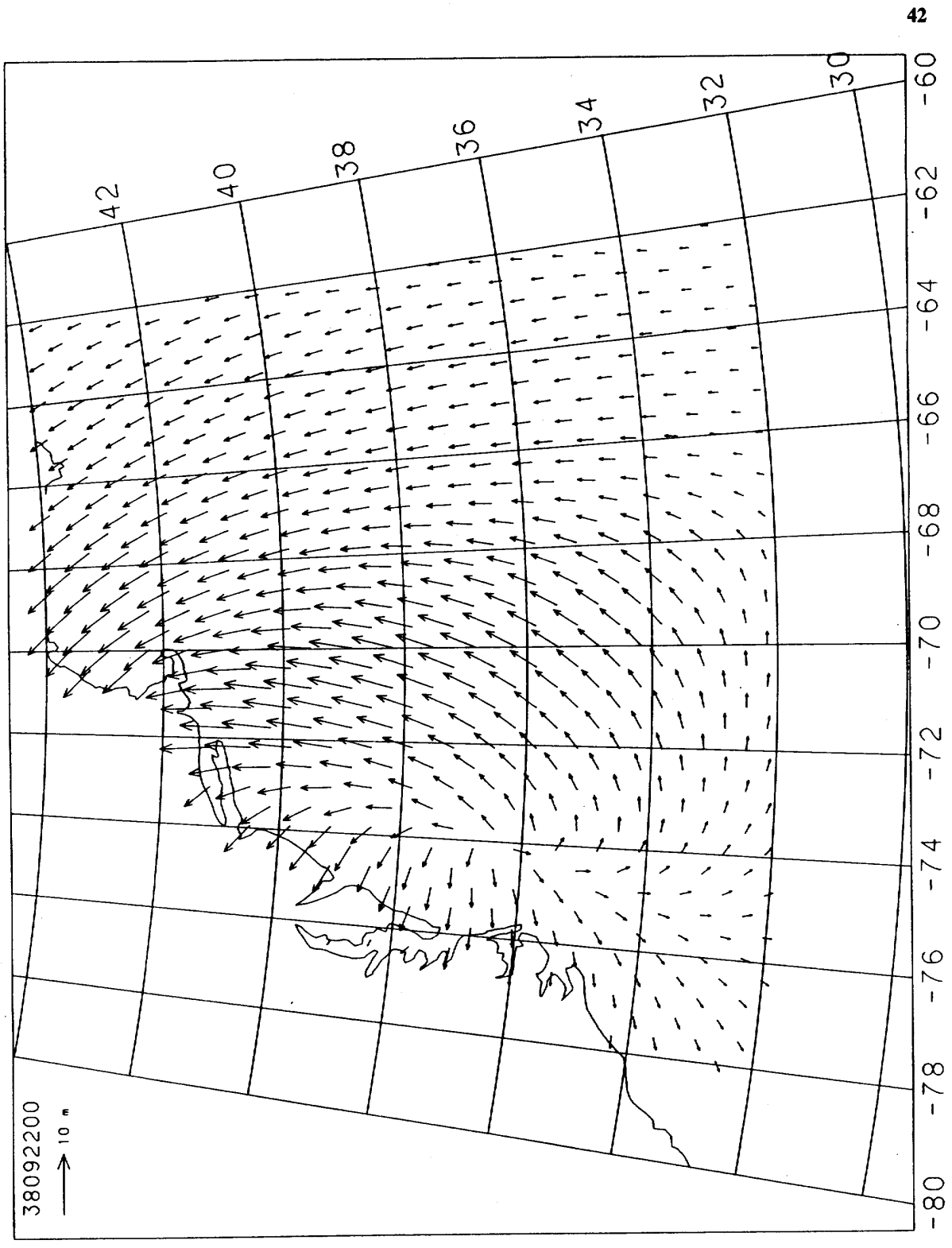
-78
-80
38092112
10 m

41




42
42
40
38
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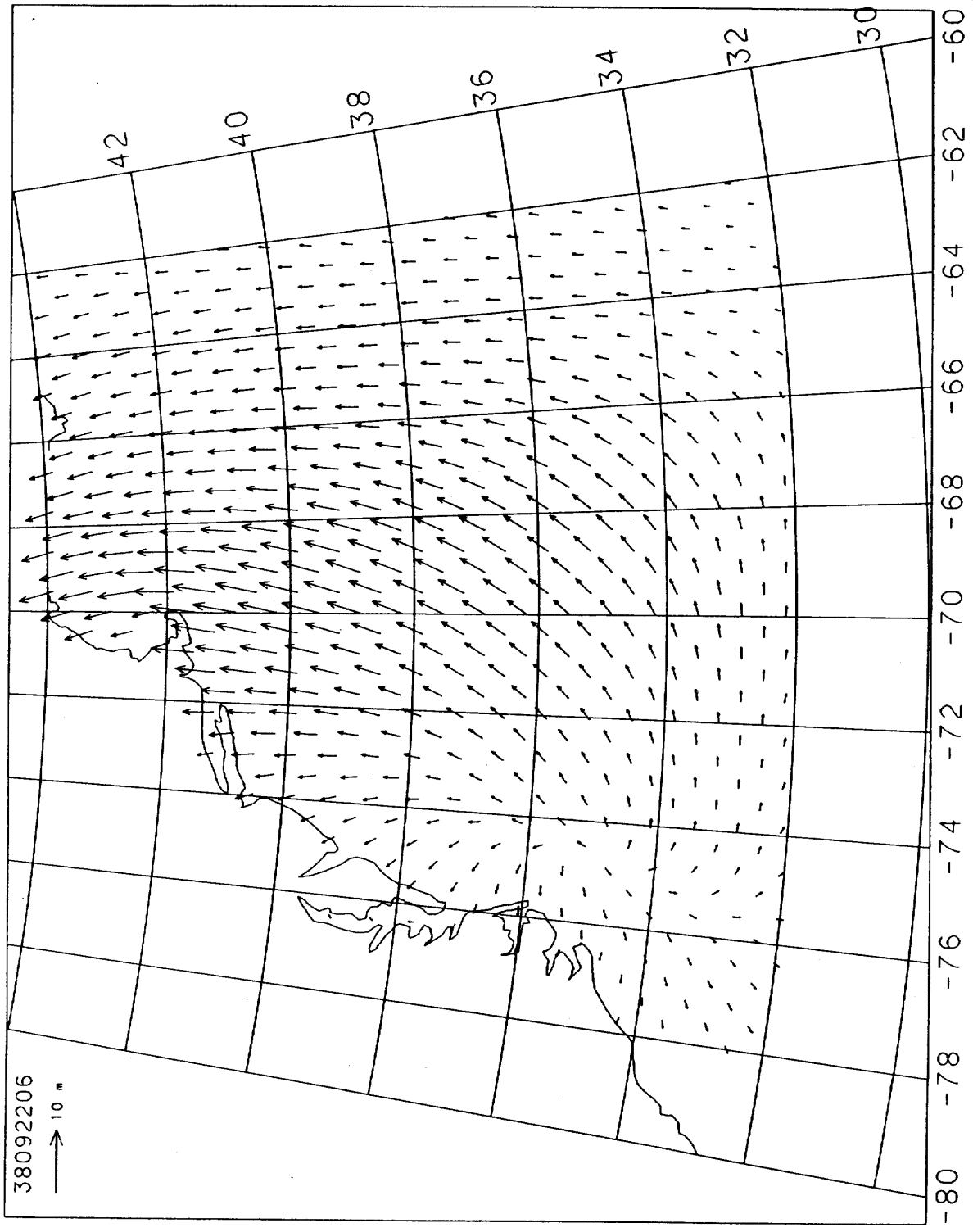
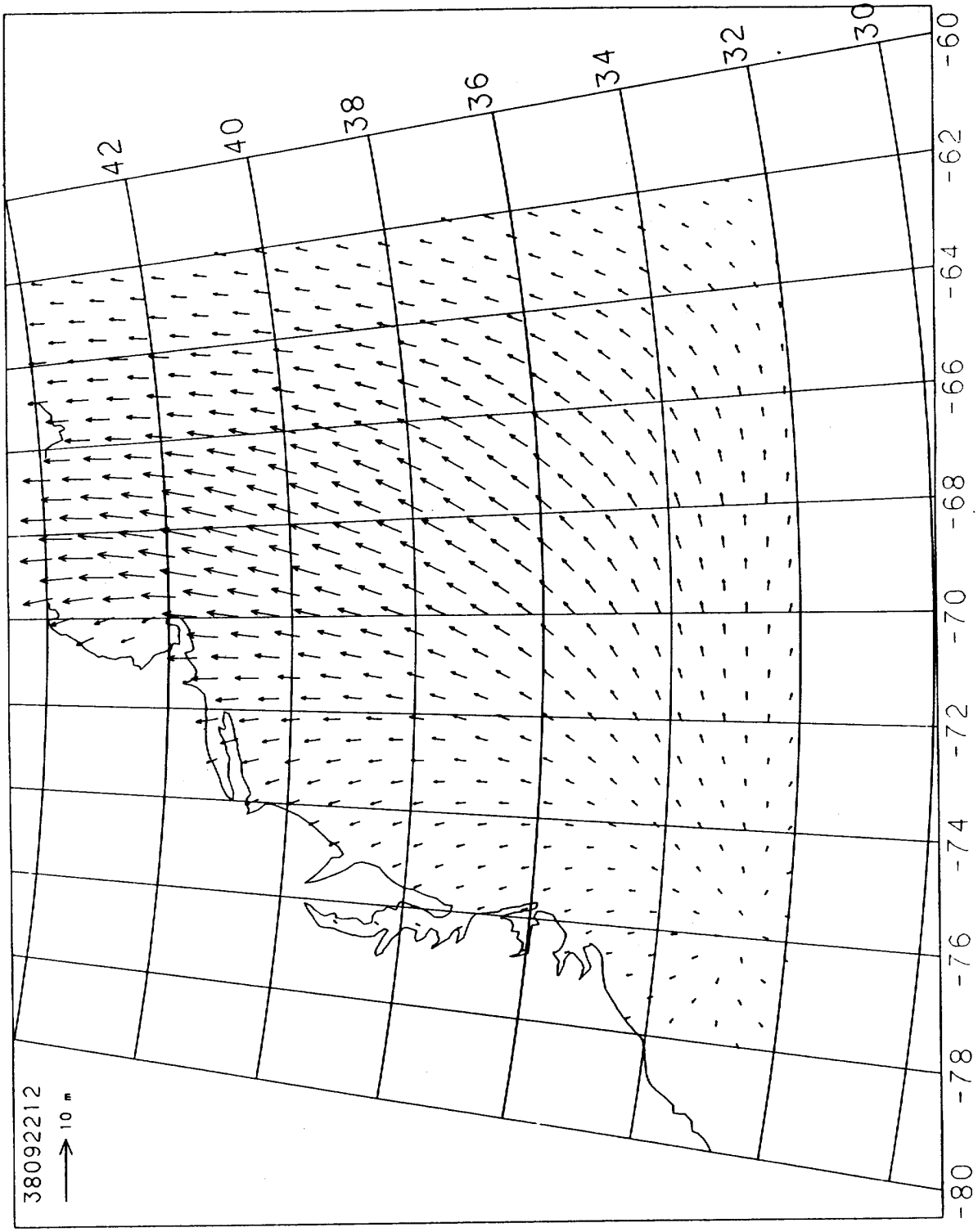
38092200
10 K

EC 9

43



44



Storm of 38092018 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
2019.	10.47	135.1	0.385	0.13	3.24	315.0
2020.	10.44	135.3	0.384	0.55	3.24	315.0
2021.	10.45	135.3	0.384	0.85	3.24	314.4
2022.	10.44	135.4	0.384	1.04	3.24	314.9
2023.	10.44	135.4	0.384	1.31	4.33	315.6
2100.	10.43	135.4	0.383	1.56	4.95	316.1
2101.	10.48	135.1	0.386	1.75	5.72	316.1
2102.	10.53	134.8	0.388	1.89	5.89	316.1
2103.	10.59	134.4	0.391	1.99	6.34	316.0
2104.	10.64	134.1	0.394	2.07	6.93	315.8
2105.	10.72	133.8	0.398	2.16	7.03	315.5
2106.	10.80	133.5	0.402	2.24	7.13	315.2
2107.	10.95	132.8	0.409	2.31	7.24	315.0
2108.	11.13	132.1	0.419	2.39	7.36	314.9
2109.	11.32	131.3	0.429	2.47	7.53	314.6
2110.	11.52	130.5	0.439	2.55	7.75	314.4
2111.	11.79	129.9	0.453	2.65	8.05	314.3
2112.	12.09	129.2	0.468	2.76	8.17	314.0
2113.	12.47	129.2	0.488	2.89	8.29	313.9
2114.	12.90	129.5	0.511	3.04	8.43	314.1
2115.	13.39	130.2	0.538	3.22	8.61	314.8
2116.	13.94	131.2	0.567	3.42	8.96	315.9
2117.	14.54	132.8	0.601	3.64	9.23	317.2
2118.	15.17	135.0	0.635	3.86	9.39	318.8
2119.	15.82	138.8	0.672	4.11	9.60	321.0
2120.	16.31	143.6	0.700	4.35	9.96	323.9
2121.	16.57	149.7	0.715	4.56	10.34	327.1
2122.	16.00	157.9	0.682	4.67	10.34	331.0
2123.	15.14	166.7	0.634	4.62	10.31	335.1
2200.	14.06	175.4	0.574	4.45	10.42	339.7
2201.	13.21	179.3	0.528	4.35	10.36	342.6
2202.	12.37	182.9	0.483	4.23	10.25	345.8
2203.	11.58	186.5	0.442	4.16	10.19	348.8
2204.	10.82	189.6	0.403	4.11	10.16	351.4
2205.	10.12	192.8	0.368	4.11	10.13	354.5
2206.	9.48	195.5	0.336	4.14	10.06	357.6
2207.	8.73	196.7	0.300	4.15	9.95	360.0
2208.	8.12	198.2	0.272	4.19	9.82	2.9
2209.	7.61	199.6	0.249	4.26	14.93	6.0
2210.	7.16	201.2	0.231	4.28	14.06	8.4
2211.	6.79	203.2	0.218	4.31	13.53	10.8
2212.	6.48	205.4	0.207	4.37	13.21	13.3

Storm of 38092018 at grid point 617

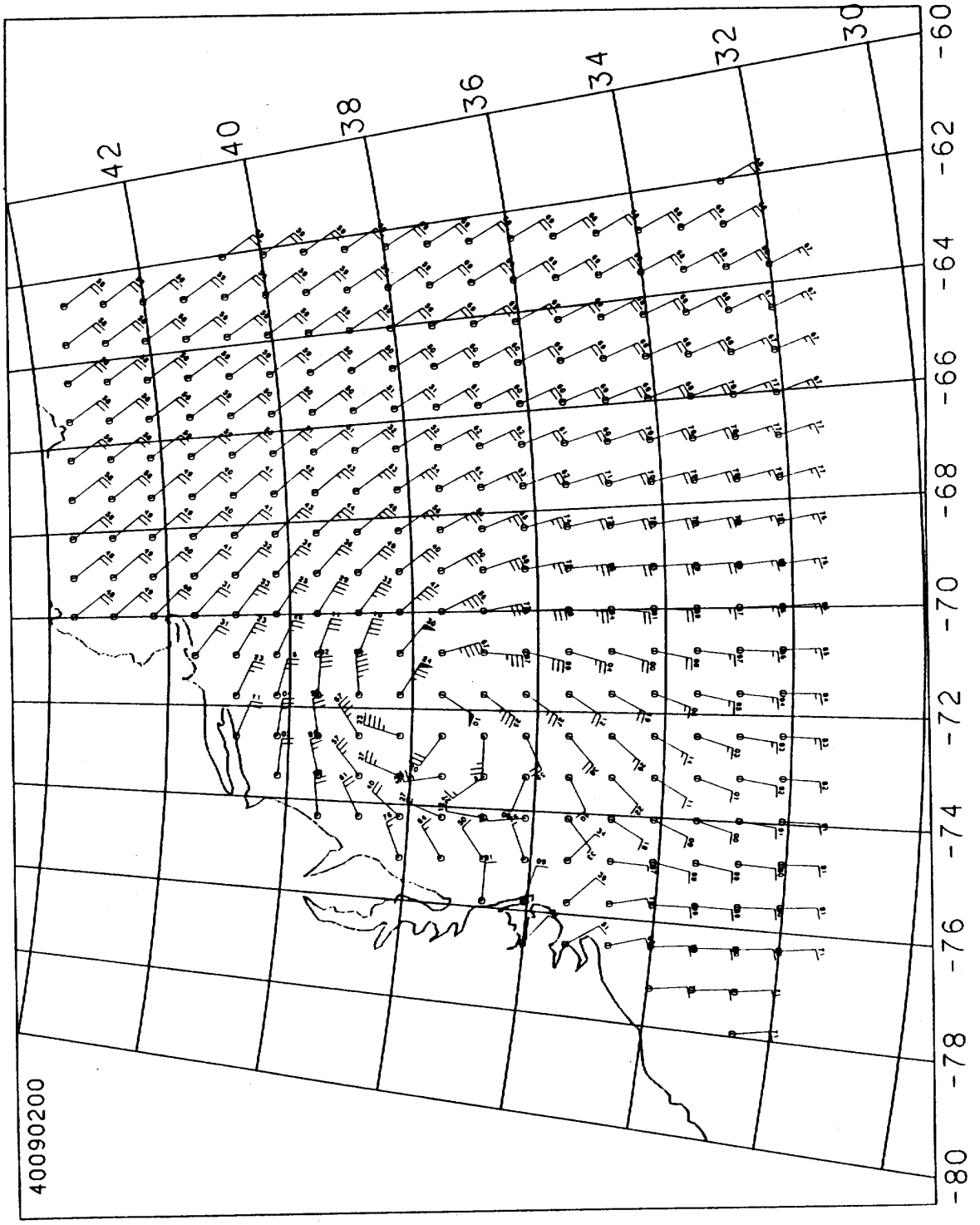
ddhh	WS	WD	U*	Hs	Tp	VMD
2019.	0.00	0.0	0.000	0.03	5.72	328.5
2020.	10.31	133.6	0.377	0.24	3.24	319.1
2021.	10.27	134.1	0.375	0.69	3.24	319.5
2022.	10.23	134.5	0.373	0.89	3.24	321.6
2023.	10.18	134.9	0.371	1.13	4.14	320.5
2100.	10.14	135.3	0.369	1.44	4.74	318.9
2101.	10.17	135.0	0.370	1.66	5.66	316.9
2102.	10.19	134.6	0.371	1.80	5.82	316.4
2103.	10.21	134.3	0.372	1.89	6.08	316.0
2104.	10.25	133.8	0.374	1.95	6.65	315.8
2105.	10.31	133.3	0.377	2.01	6.92	315.7
2106.	10.36	132.8	0.380	2.07	7.00	315.5
2107.	10.46	131.9	0.385	2.13	7.08	315.0
2108.	10.61	130.9	0.392	2.21	7.16	314.3
2109.	10.77	129.8	0.400	2.28	7.23	313.6
2110.	10.94	128.7	0.409	2.35	7.33	313.0
2111.	11.16	127.5	0.420	2.43	7.47	312.4
2112.	11.37	126.2	0.431	2.52	7.72	311.7
2113.	11.71	125.4	0.449	2.63	8.06	311.0
2114.	12.12	124.6	0.470	2.76	8.21	310.6
2115.	12.60	123.9	0.495	2.92	8.35	310.4
2116.	13.16	123.5	0.526	3.11	8.53	310.3
2117.	13.83	123.3	0.562	3.33	8.79	310.6
2118.	14.65	123.6	0.607	3.58	9.17	311.3
2119.	15.75	124.9	0.668	3.89	9.39	312.5
2120.	16.94	127.6	0.737	4.23	9.62	314.2
2121.	18.12	132.0	0.805	4.58	9.93	316.7
2122.	18.41	139.5	0.823	4.89	10.40	320.2
2123.	18.16	149.0	0.808	5.12	10.58	324.3
2200.	17.34	160.1	0.759	5.20	10.76	329.2
2201.	16.23	166.1	0.696	5.18	10.88	333.3
2202.	15.27	172.0	0.641	5.07	10.93	337.5
2203.	14.24	177.6	0.584	4.92	11.01	341.1
2204.	13.26	182.8	0.531	4.79	10.96	344.6
2205.	12.33	187.6	0.481	4.80	10.89	349.4
2206.	11.40	191.7	0.433	4.81	10.73	352.7
2207.	10.25	194.5	0.374	4.89	10.63	355.9
2208.	9.27	196.5	0.325	4.97	16.46	358.9
2209.	8.46	198.8	0.287	5.03	16.01	1.8
2210.	7.81	200.8	0.258	5.10	15.16	4.3
2211.	7.28	203.0	0.236	5.16	14.76	6.5
2212.	6.84	205.3	0.219	5.22	10.97	8.6

Storm of 38092018 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
2019.	0.00	0.0	0.000	0.03	5.73	327.7
2020.	10.32	132.7	0.378	0.26	3.24	317.6
2021.	10.28	133.1	0.376	0.70	3.24	318.3
2022.	10.24	133.5	0.374	0.91	3.24	320.0
2023.	10.20	133.9	0.371	1.15	4.21	319.0
2100.	10.16	134.2	0.370	1.46	4.78	317.5
2101.	10.19	133.8	0.371	1.67	5.67	315.8
2102.	10.21	133.4	0.372	1.80	5.82	315.3
2103.	10.24	132.9	0.373	1.89	6.09	314.9
2104.	10.28	132.4	0.376	1.96	6.71	314.7
2105.	10.34	131.8	0.379	2.02	6.93	314.5
2106.	10.40	131.2	0.382	2.08	7.01	314.1
2107.	10.50	130.2	0.387	2.15	7.09	313.5
2108.	10.64	128.9	0.394	2.22	7.17	312.7
2109.	10.79	127.7	0.401	2.29	7.24	311.9
2110.	10.97	126.3	0.410	2.36	7.33	311.3
2111.	11.20	124.8	0.422	2.45	7.49	310.4
2112.	11.44	123.3	0.435	2.54	7.78	309.6
2113.	11.82	122.0	0.454	2.66	8.10	308.8
2114.	12.27	120.8	0.478	2.81	8.25	308.2
2115.	12.81	119.6	0.507	2.99	8.40	307.7
2116.	13.46	118.6	0.542	3.19	8.60	307.4
2117.	14.25	117.7	0.585	3.43	8.93	307.4
2118.	15.26	117.3	0.641	3.72	9.25	307.8
2119.	16.67	118.6	0.721	4.07	9.51	308.9
2120.	18.29	121.3	0.816	4.47	9.79	310.8
2121.	19.96	126.1	0.917	4.90	10.18	313.4
2122.	20.61	134.7	0.957	5.29	10.49	317.0
2123.	20.37	146.0	0.942	5.59	10.72	321.5
2200.	19.28	159.5	0.875	5.68	11.00	326.8
2201.	18.01	166.6	0.799	5.73	11.33	332.0
2202.	16.76	173.4	0.726	5.69	11.63	337.0
2203.	15.46	179.6	0.652	5.51	11.77	341.5
2204.	14.25	185.4	0.584	5.49	11.62	347.3
2205.	13.13	190.5	0.524	5.45	11.56	351.1
2206.	12.07	195.0	0.468	5.46	11.38	354.6
2207.	10.78	197.5	0.401	5.52	11.29	358.0
2208.	9.69	199.1	0.346	5.56	16.08	0.6
2209.	8.79	201.0	0.302	5.61	11.21	2.8
2210.	8.05	202.7	0.268	5.67	11.19	4.6
2211.	7.45	204.4	0.243	5.66	11.12	6.2
2212.	6.99	206.4	0.225	5.60	11.06	7.4

STORM #2

Hurricane of August 1940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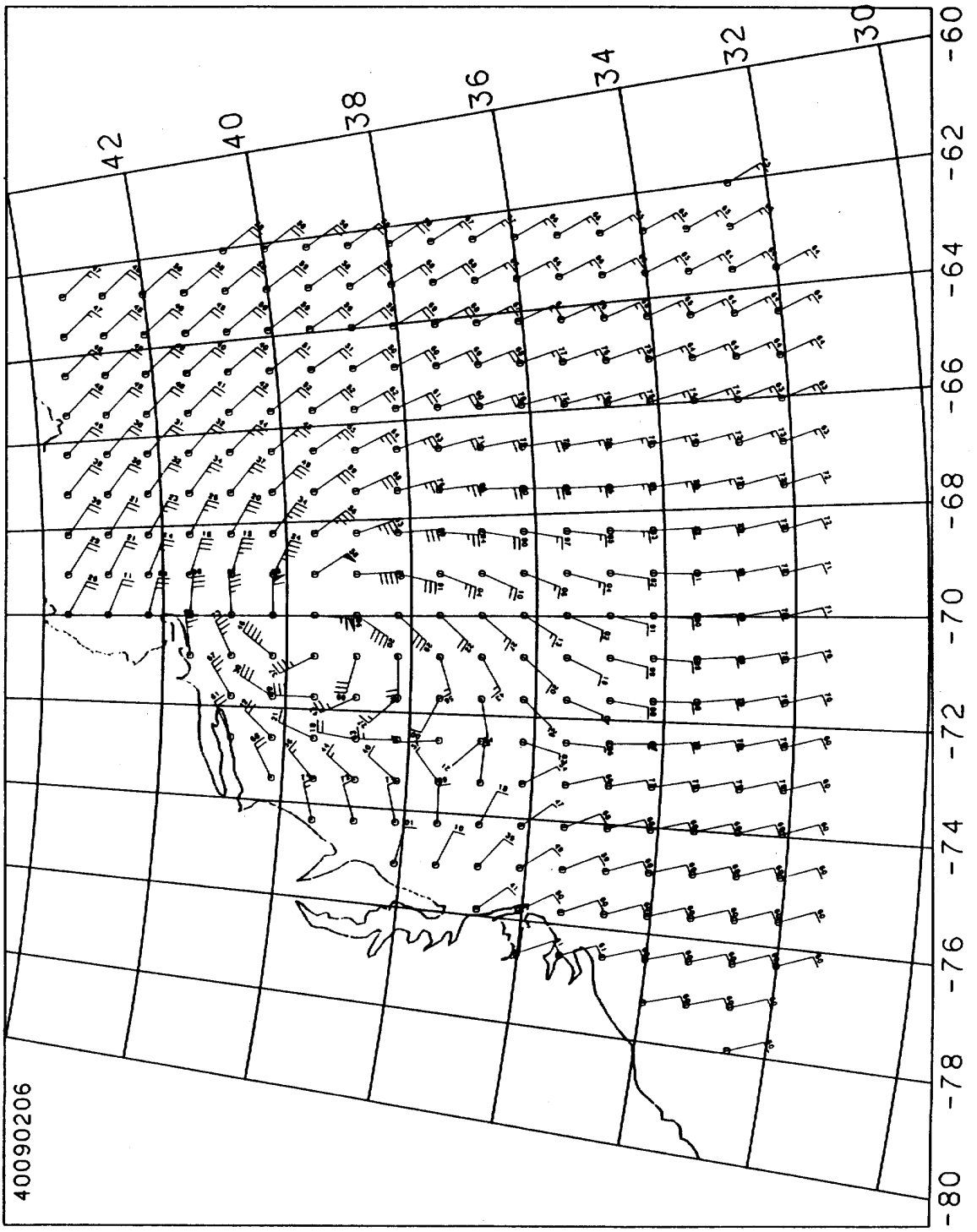
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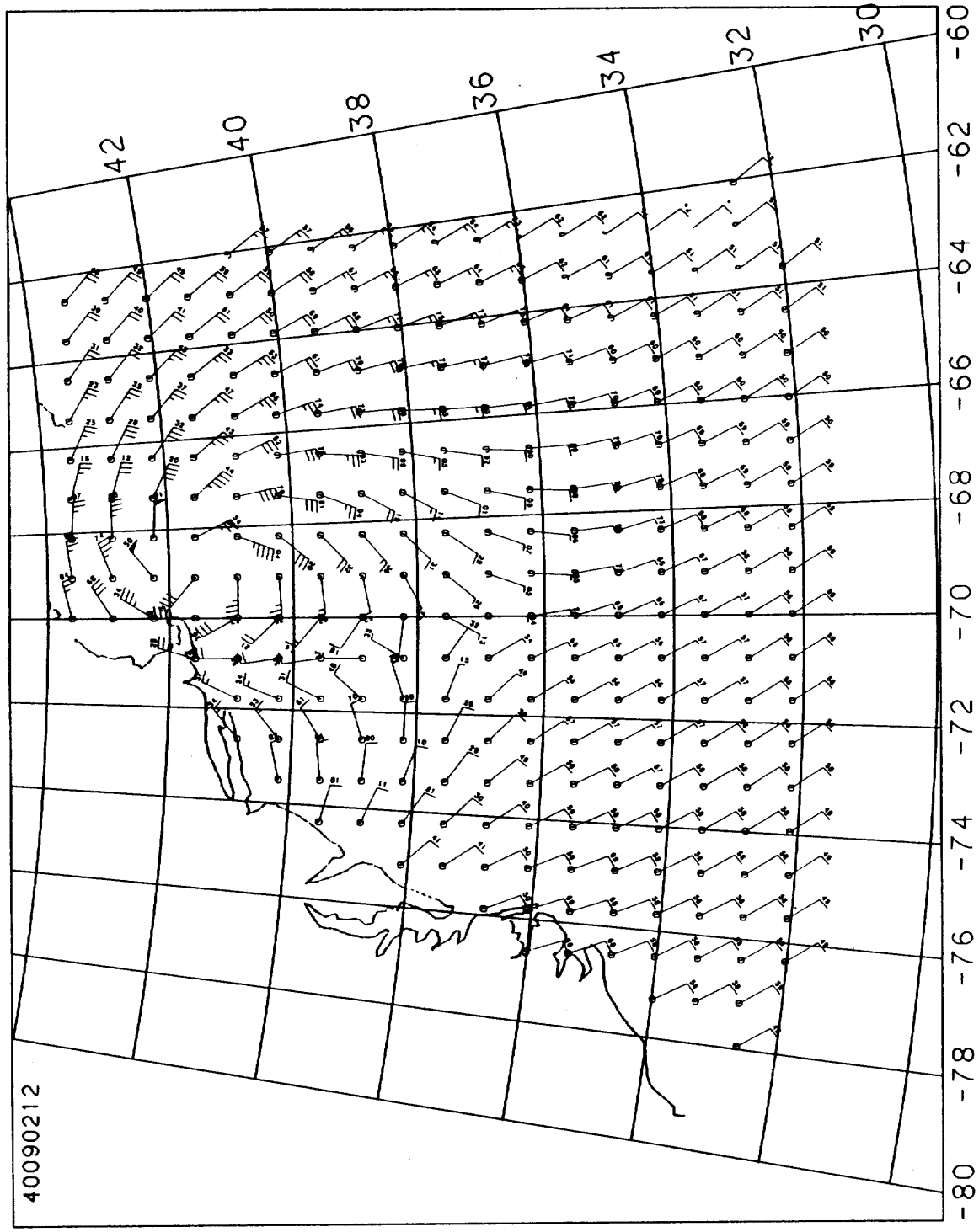
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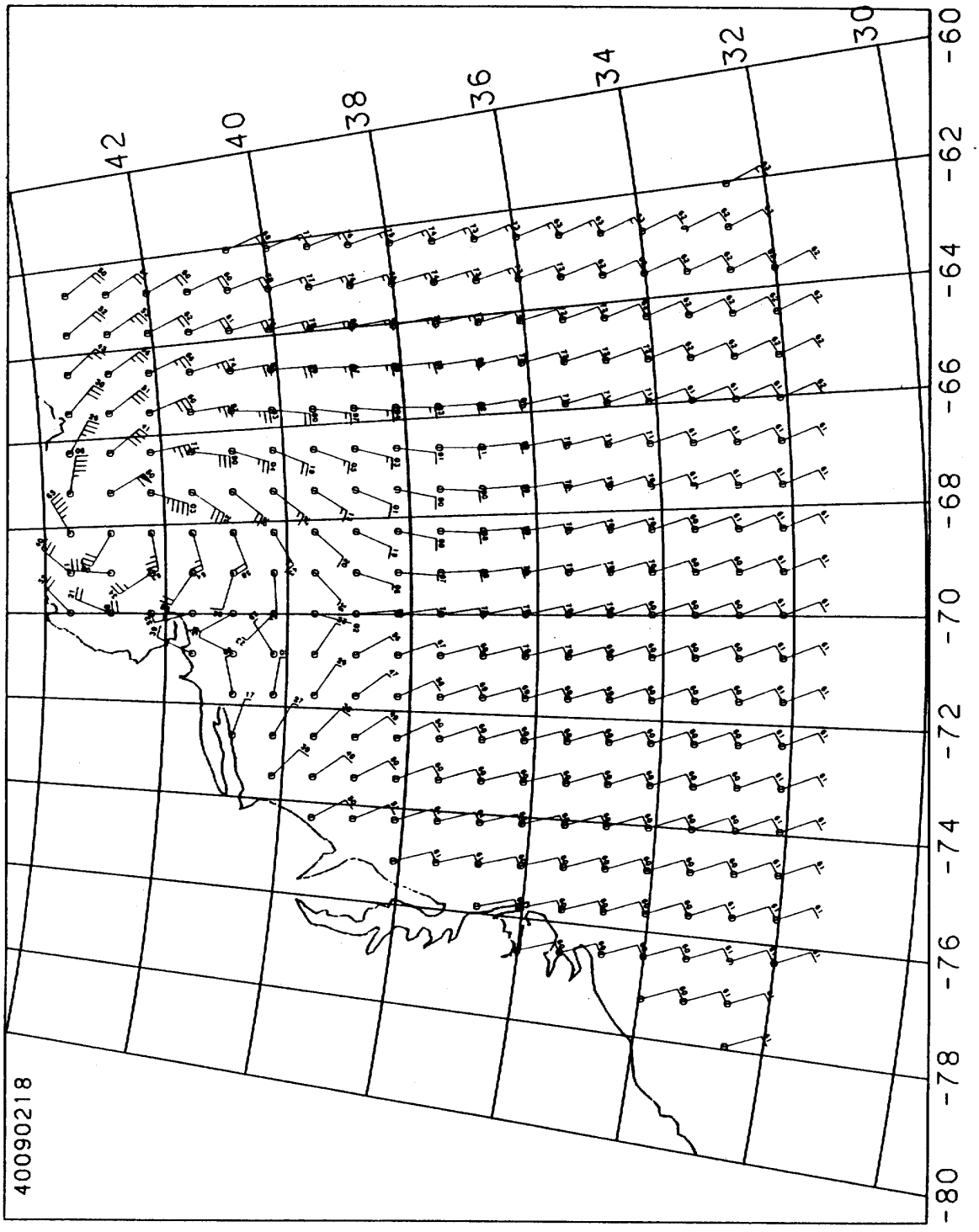

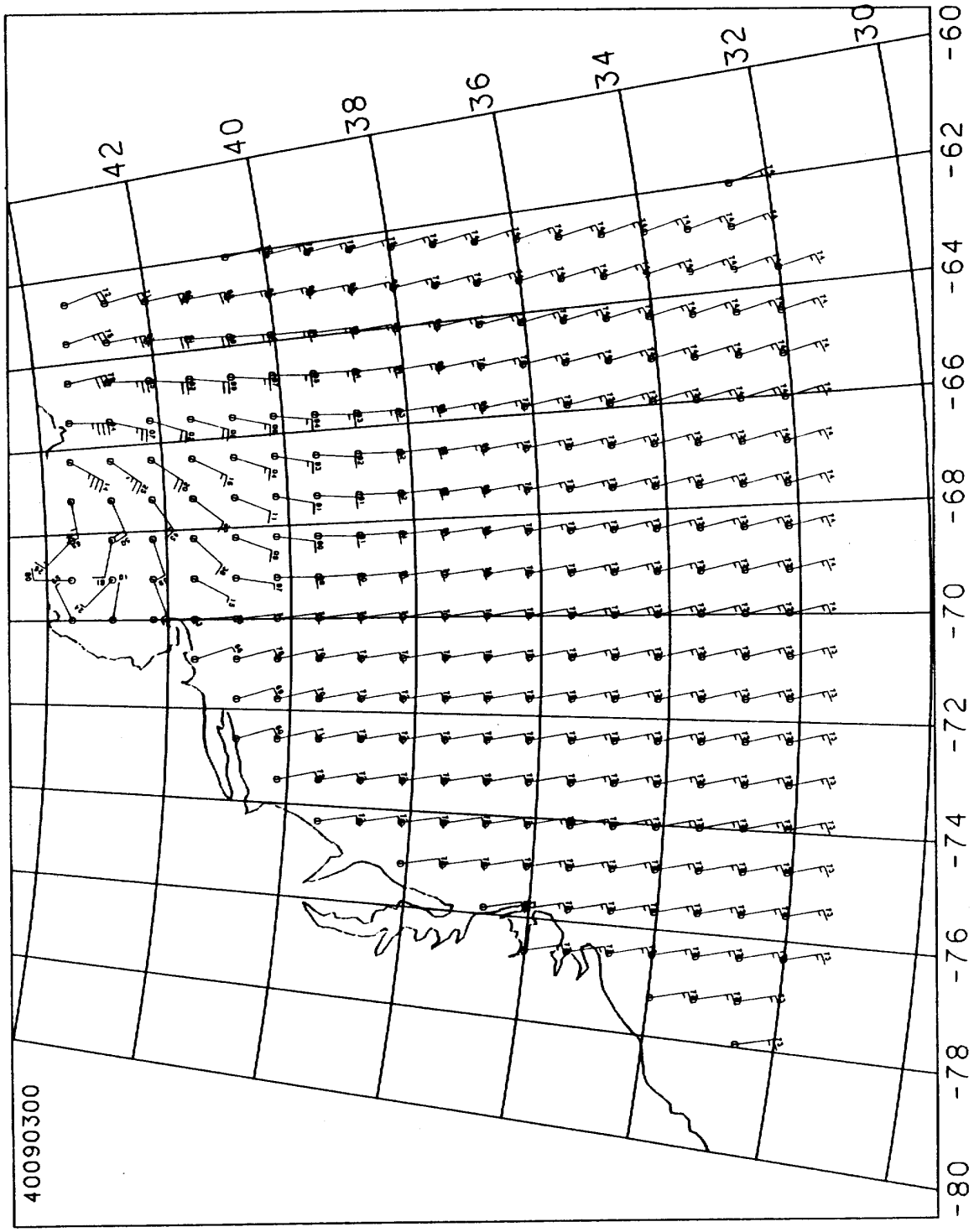
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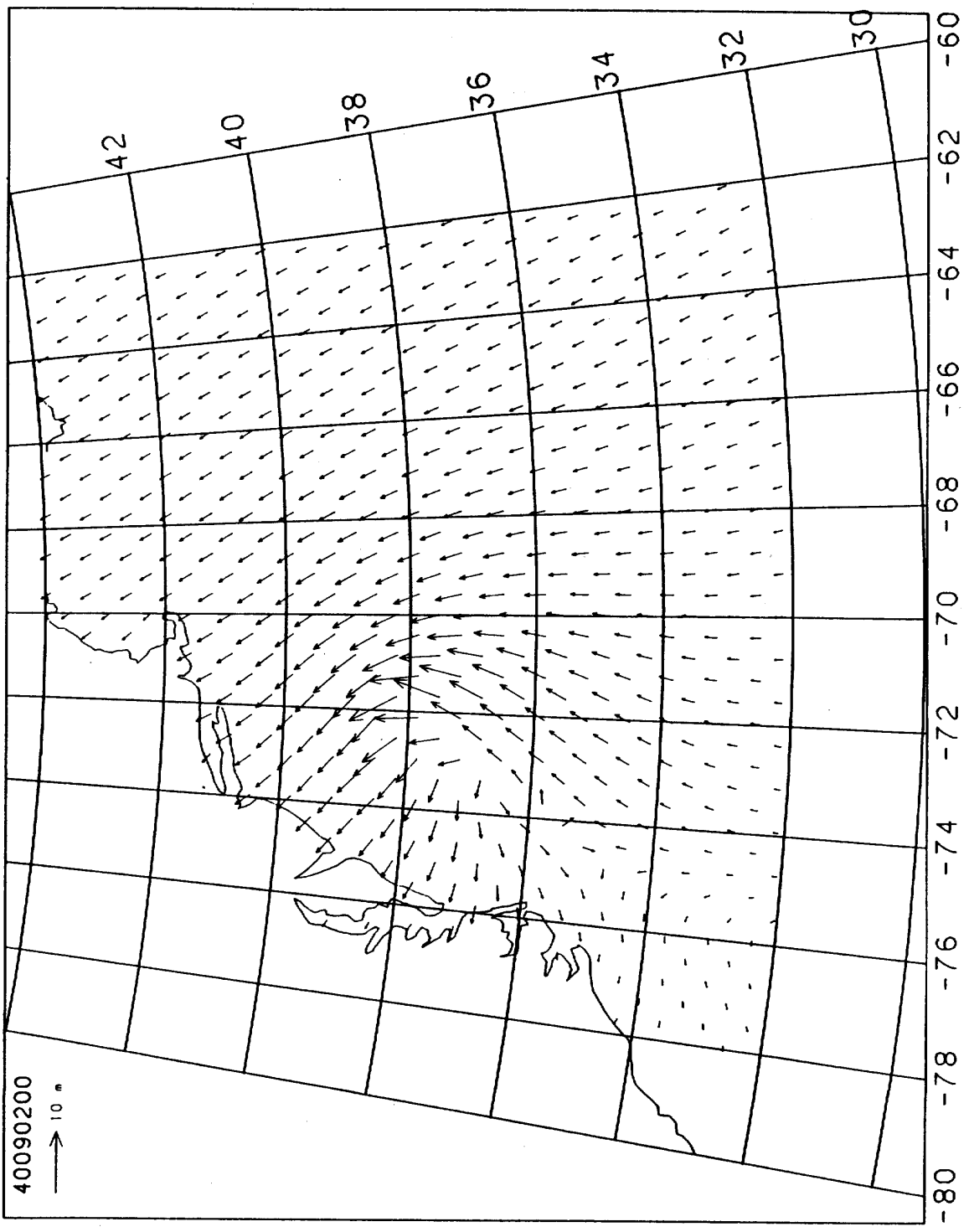
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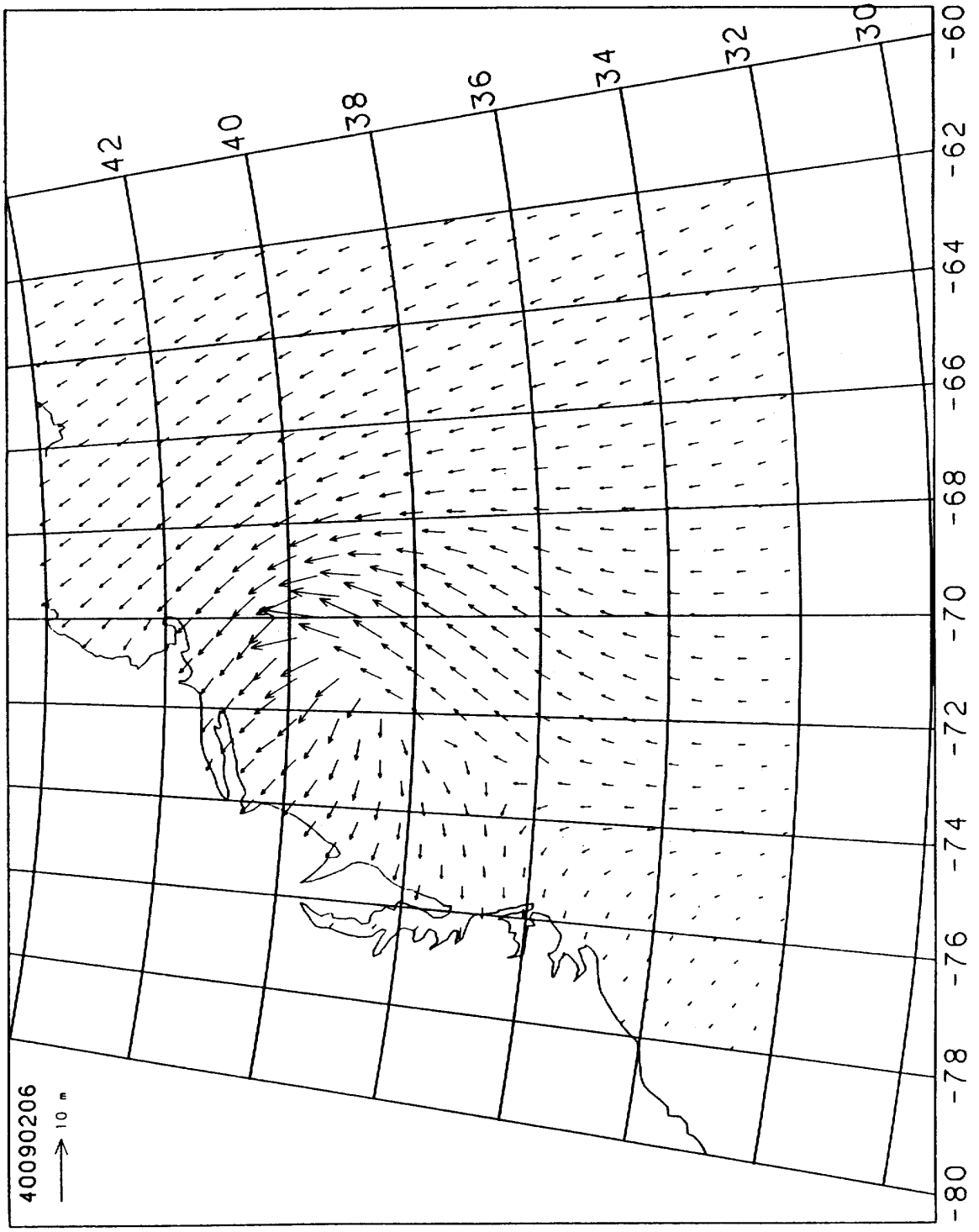
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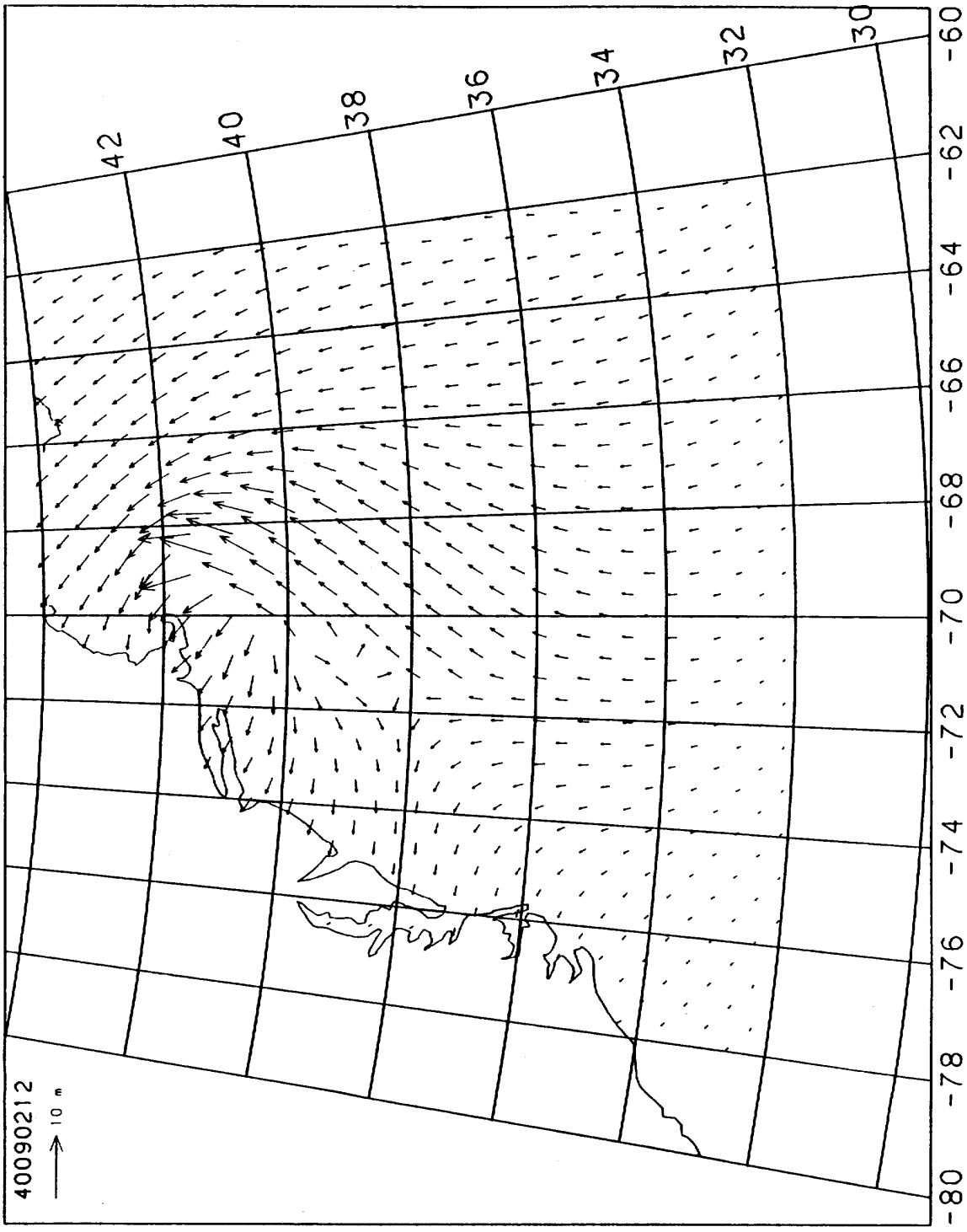

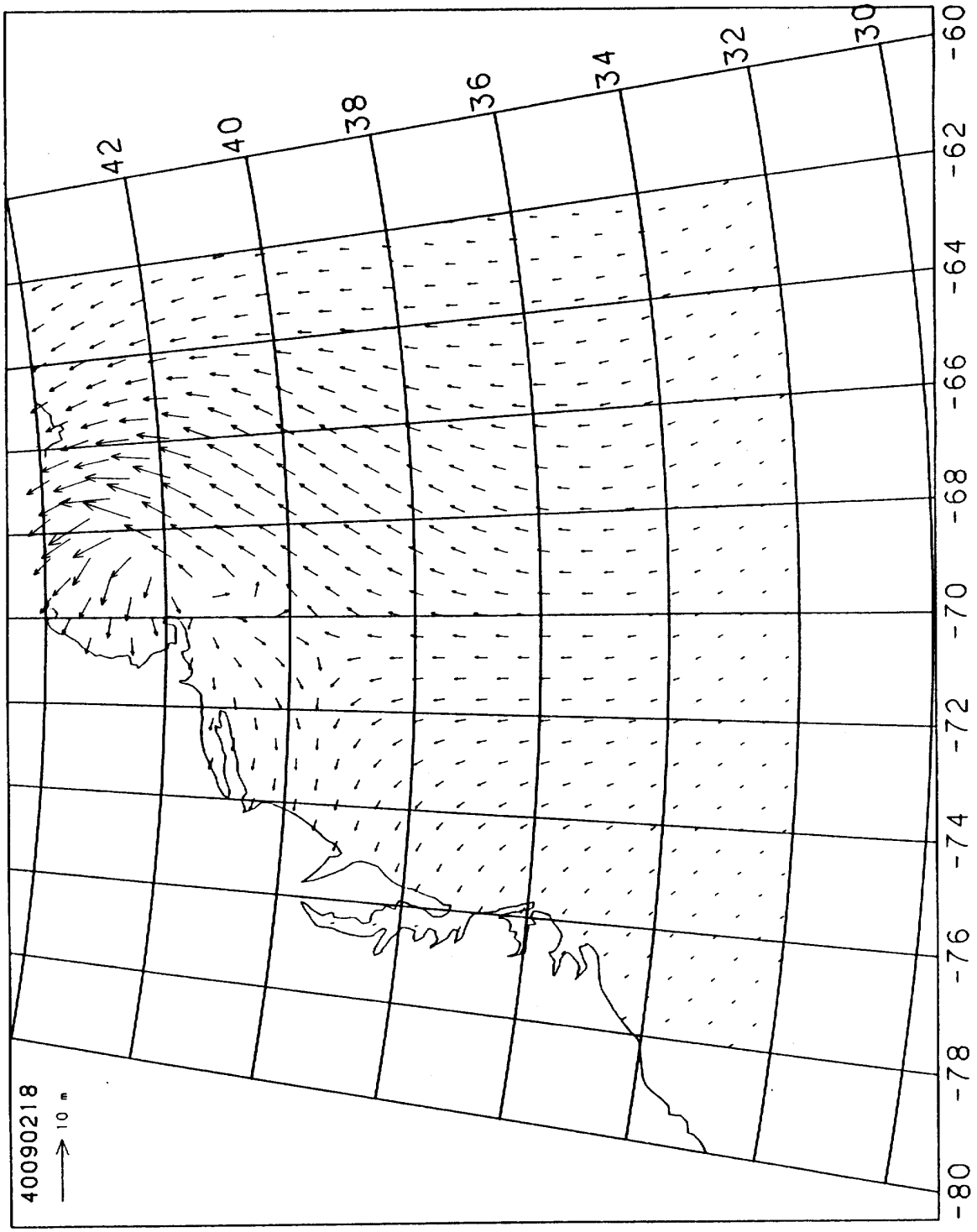
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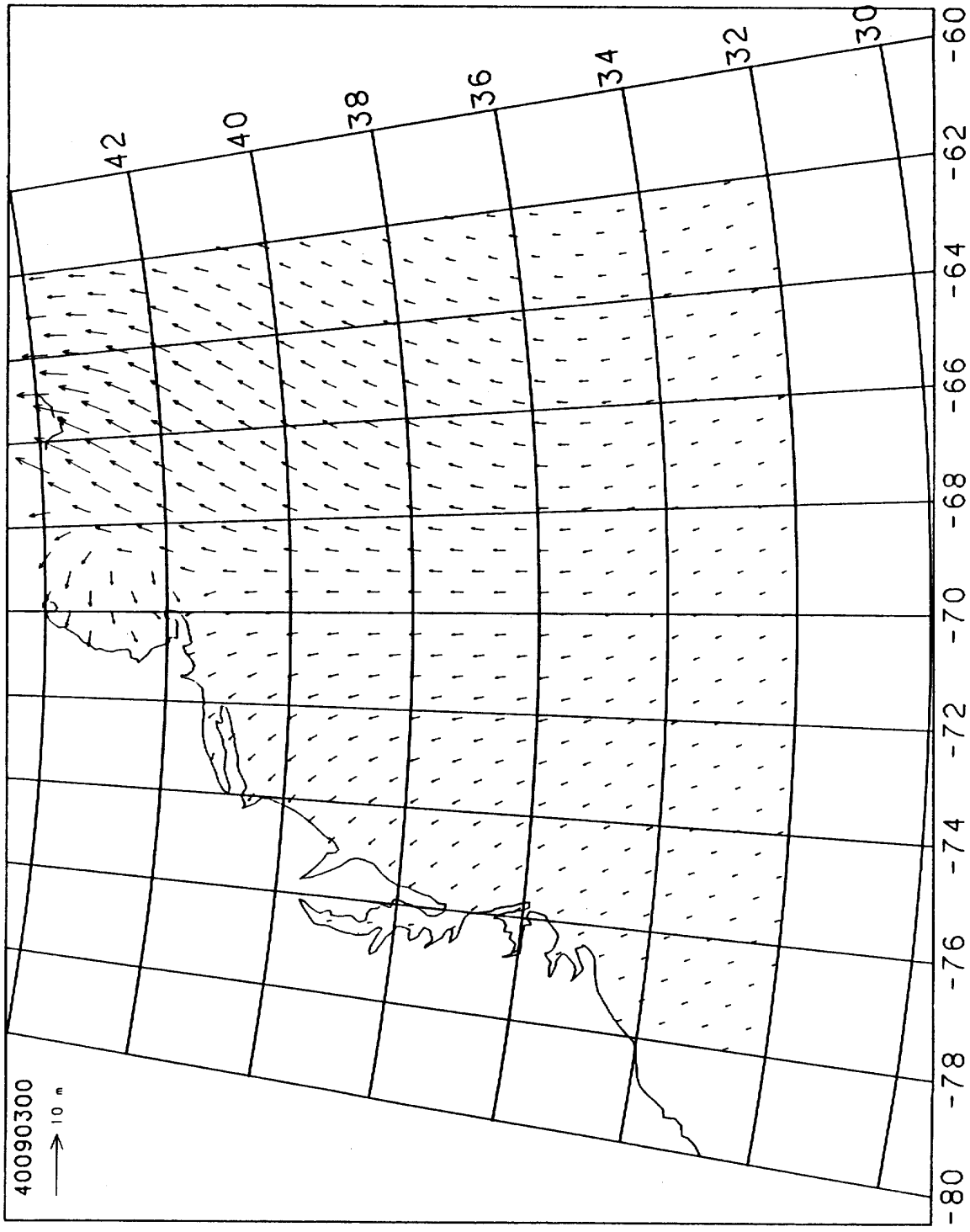
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Storm of 40083106 at grid point 383

ddhh	WS	WD	U*	Hs	Tp	VMD
3107.	9.47	147.7	0.335	0.10	4.18	328.0
3108.	9.46	147.8	0.335	0.31	3.24	328.1
3109.	9.45	147.9	0.334	0.71	3.24	328.3
3110.	9.44	148.0	0.334	0.94	3.24	327.2
3111.	9.43	148.1	0.333	1.16	4.18	327.4
3112.	9.42	148.2	0.333	1.36	4.41	327.4
3113.	9.41	148.3	0.332	1.49	5.52	327.7
3114.	9.40	148.4	0.332	1.58	5.66	328.2
3115.	9.39	148.5	0.331	1.64	5.71	328.7
3116.	9.37	148.6	0.331	1.68	5.80	329.1
3117.	9.37	148.7	0.330	1.72	5.90	329.2
3118.	9.36	148.8	0.330	1.75	5.99	329.2
3119.	9.35	148.9	0.330	1.77	6.05	329.1
3120.	9.34	149.0	0.329	1.79	6.09	329.0
3121.	9.34	149.1	0.329	1.80	6.14	329.0
3122.	9.33	149.2	0.328	1.82	6.17	329.0
3123.	9.32	149.2	0.328	1.83	6.21	329.1
100.	9.31	149.3	0.328	1.83	6.25	329.3
101.	9.30	149.4	0.327	1.84	6.30	329.4
102.	9.29	149.5	0.327	1.84	6.33	329.6
103.	9.28	149.6	0.326	1.85	6.36	329.7
104.	9.28	149.7	0.326	1.85	6.37	329.8
105.	9.27	149.8	0.326	1.85	6.39	329.9
106.	9.27	149.9	0.325	1.85	6.41	330.1
107.	9.26	149.9	0.325	1.86	6.42	330.3
108.	9.25	150.0	0.325	1.86	6.43	330.4
109.	9.25	150.1	0.324	1.86	6.44	330.6
110.	9.24	150.2	0.324	1.86	6.45	330.8
111.	9.23	150.2	0.324	1.87	6.46	330.9
112.	9.23	150.3	0.324	1.87	6.47	331.1
113.	9.23	150.3	0.324	1.87	6.47	331.2
114.	9.23	150.3	0.324	1.87	6.47	331.4
115.	9.23	150.2	0.324	1.87	6.48	331.6
116.	9.23	150.2	0.323	1.87	6.49	331.7
117.	9.22	150.2	0.323	1.87	6.50	331.9
118.	9.23	150.1	0.324	1.87	6.51	332.0
119.	9.25	150.0	0.325	1.88	6.53	332.2
120.	9.27	149.8	0.326	1.88	6.54	332.4
121.	9.30	149.6	0.327	1.88	6.55	332.5
122.	9.34	149.4	0.329	1.89	6.57	332.7
123.	9.39	149.1	0.332	1.90	6.65	332.7
200.	9.45	148.8	0.335	1.91	6.73	332.8
201.	9.43	147.3	0.334	1.92	6.77	332.9
202.	9.45	145.8	0.334	1.93	6.83	333.0
203.	9.48	144.2	0.336	1.94	6.87	333.1
204.	9.55	142.6	0.339	1.96	6.87	332.5
205.	9.67	140.8	0.345	2.00	6.89	331.5
206.	9.84	139.0	0.354	2.05	6.92	330.6
207.	10.08	137.5	0.366	2.10	6.96	329.4

208.	10.38	135.9	0.381	2.18	7.04	328.4
209.	10.75	134.7	0.399	2.27	7.13	327.8
210.	11.20	133.7	0.423	2.39	7.26	327.3
211.	11.76	133.2	0.451	2.53	7.46	327.3
212.	12.40	133.3	0.485	2.71	7.78	327.8
213.	12.81	135.7	0.507	2.88	8.09	329.1
214.	13.23	138.4	0.529	3.05	8.26	331.2
215.	13.60	141.5	0.549	3.23	8.43	334.0
216.	14.00	145.0	0.571	3.44	8.63	338.0
217.	14.30	149.1	0.588	3.68	8.88	344.1
218.	14.51	153.6	0.599	3.94	9.13	351.7
219.	14.80	159.9	0.615	4.18	13.92	358.3
220.	14.80	166.9	0.615	4.34	13.46	4.0
221.	14.53	174.1	0.600	4.42	12.85	10.2
222.	13.98	181.5	0.569	4.42	12.06	16.9
223.	13.22	187.8	0.529	4.30	11.80	23.7
300.	12.32	193.2	0.481	4.15	10.91	28.4
301.	11.36	196.9	0.431	3.97	10.60	32.0
302.	10.44	198.7	0.384	3.71	10.00	33.6
303.	9.70	198.6	0.347	3.48	9.31	33.4
304.	9.17	196.9	0.321	3.29	8.68	32.6
305.	8.79	194.3	0.303	3.11	8.42	31.2
306.	8.62	191.7	0.294	2.98	8.21	30.3

Storm of 40083106 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
3107.	9.58	147.1	0.341	0.10	4.19	327.4
3108.	9.57	147.1	0.340	0.33	3.24	327.4
3109.	9.56	147.2	0.340	0.73	3.24	327.6
3110.	9.55	147.3	0.339	0.95	3.24	326.4
3111.	9.54	147.4	0.339	1.17	4.20	326.7
3112.	9.52	147.5	0.338	1.38	4.46	326.7
3113.	9.51	147.6	0.338	1.52	5.56	327.2
3114.	9.50	147.7	0.337	1.62	5.68	327.9
3115.	9.49	147.8	0.336	1.68	5.75	328.3
3116.	9.48	147.9	0.336	1.73	5.86	328.5
3117.	9.47	148.0	0.335	1.77	5.98	328.4
3118.	9.46	148.1	0.335	1.80	6.09	328.3
3119.	9.46	148.2	0.335	1.82	6.17	328.1
3120.	9.45	148.2	0.335	1.84	6.24	327.9
3121.	9.45	148.3	0.334	1.86	6.29	328.0
3122.	9.44	148.4	0.334	1.87	6.35	328.1
3123.	9.44	148.5	0.334	1.88	6.41	328.2
100.	9.43	148.6	0.333	1.89	6.48	328.4
101.	9.42	148.6	0.333	1.90	6.53	328.5
102.	9.42	148.7	0.333	1.90	6.56	328.5
103.	9.41	148.8	0.332	1.91	6.59	328.6
104.	9.40	148.9	0.332	1.92	6.61	328.7
105.	9.39	148.9	0.332	1.92	6.62	328.8
106.	9.38	149.0	0.331	1.93	6.64	329.0
107.	9.38	149.1	0.331	1.93	6.66	329.1
108.	9.37	149.2	0.330	1.93	6.68	329.3
109.	9.36	149.2	0.330	1.94	6.70	329.4
110.	9.35	149.3	0.330	1.94	6.72	329.6
111.	9.35	149.4	0.329	1.95	6.75	329.8
112.	9.35	149.4	0.329	1.95	6.77	330.0
113.	9.36	149.4	0.330	1.96	6.79	330.3
114.	9.37	149.2	0.331	1.96	6.81	330.5
115.	9.40	149.1	0.332	1.97	6.83	330.7
116.	9.43	149.0	0.333	1.97	6.85	331.0
117.	9.46	148.8	0.335	1.97	6.86	331.3
118.	9.50	148.6	0.337	1.98	6.87	331.6
119.	9.56	148.3	0.340	1.99	6.87	331.8
120.	9.64	147.8	0.344	2.00	6.91	332.0
121.	9.74	147.4	0.349	2.02	6.94	332.0
122.	9.86	146.9	0.355	2.06	6.98	331.8
123.	10.00	146.4	0.361	2.10	7.03	331.6
200.	10.17	145.6	0.370	2.15	7.10	331.2
201.	10.30	143.8	0.376	2.21	7.17	330.8
202.	10.48	142.2	0.386	2.27	7.24	330.3
203.	10.72	140.4	0.398	2.35	7.33	329.7
204.	11.02	138.7	0.413	2.45	7.46	329.1
205.	11.42	137.0	0.434	2.56	7.68	328.3
206.	11.92	135.6	0.460	2.71	8.01	327.9
207.	12.56	134.6	0.493	2.89	8.18	327.8

208.	13.31	134.6	0.533	3.11	8.38	328.2
209.	14.21	135.4	0.582	3.36	8.62	329.2
210.	15.11	138.0	0.632	3.64	8.94	331.2
211.	16.09	142.2	0.687	3.95	9.20	334.7
212.	16.80	149.2	0.728	4.29	9.39	340.8
213.	16.98	156.4	0.739	4.66	9.63	349.2
214.	16.85	164.6	0.731	4.98	9.95	358.0
215.	16.46	173.1	0.709	5.21	13.35	7.2
216.	15.73	181.8	0.667	5.19	11.60	14.5
217.	14.83	189.5	0.617	4.99	11.87	22.7
218.	13.87	195.7	0.564	4.72	11.04	27.2
219.	12.54	202.6	0.492	4.38	10.59	31.6
220.	11.31	207.7	0.428	4.03	10.34	32.7
221.	10.12	210.8	0.368	3.75	9.06	33.5
222.	9.07	211.5	0.316	3.49	8.76	34.0
223.	8.21	209.9	0.276	3.31	8.55	33.9
300.	7.51	206.5	0.245	3.13	8.23	33.3
301.	7.14	202.1	0.230	2.97	7.88	32.2
302.	6.97	197.3	0.224	2.82	7.74	30.0
303.	6.97	192.3	0.224	2.68	7.65	27.5
304.	7.09	188.9	0.229	2.56	7.58	24.8
305.	7.29	185.9	0.237	2.46	7.49	22.3
306.	7.54	183.7	0.246	2.38	7.38	19.9

Storm of 40083106 at grid point 500

ddhh	WS	WD	U*	Hs	Tp	VMD
3107.	9.48	147.4	0.336	0.10	4.18	327.8
3108.	9.47	147.5	0.335	0.31	3.24	327.9
3109.	9.46	147.6	0.335	0.71	3.24	328.0
3110.	9.45	147.7	0.334	0.95	3.24	326.7
3111.	9.44	147.8	0.334	1.16	4.18	327.0
3112.	9.42	147.9	0.333	1.36	4.42	327.0
3113.	9.41	148.0	0.333	1.49	5.52	327.4
3114.	9.40	148.1	0.332	1.59	5.66	328.1
3115.	9.39	148.2	0.331	1.64	5.72	328.4
3116.	9.38	148.3	0.331	1.69	5.81	328.7
3117.	9.37	148.4	0.330	1.73	5.92	328.8
3118.	9.36	148.4	0.330	1.76	6.01	328.6
3119.	9.35	148.5	0.329	1.78	6.08	328.5
3120.	9.34	148.6	0.329	1.80	6.14	328.3
3121.	9.33	148.7	0.328	1.81	6.17	328.2
3122.	9.32	148.8	0.328	1.83	6.21	328.3
3123.	9.31	148.8	0.328	1.84	6.25	328.4
100.	9.30	148.9	0.327	1.84	6.29	328.5
101.	9.29	149.0	0.327	1.85	6.34	328.6
102.	9.28	149.1	0.326	1.86	6.36	328.7
103.	9.27	149.2	0.326	1.86	6.38	328.7
104.	9.26	149.2	0.325	1.87	6.39	328.8
105.	9.26	149.3	0.325	1.87	6.41	328.9
106.	9.25	149.4	0.325	1.87	6.43	329.0
107.	9.24	149.4	0.324	1.88	6.44	329.1
108.	9.23	149.5	0.324	1.88	6.46	329.2
109.	9.23	149.6	0.324	1.89	6.48	329.4
110.	9.22	149.6	0.323	1.89	6.50	329.5
111.	9.21	149.7	0.323	1.89	6.52	329.7
112.	9.21	149.7	0.323	1.89	6.54	329.8
113.	9.21	149.7	0.323	1.90	6.56	330.0
114.	9.21	149.6	0.323	1.90	6.58	330.1
115.	9.20	149.5	0.322	1.90	6.60	330.3
116.	9.20	149.4	0.322	1.91	6.61	330.4
117.	9.20	149.3	0.322	1.91	6.63	330.6
118.	9.21	149.1	0.323	1.91	6.64	330.8
119.	9.24	148.9	0.324	1.92	6.65	331.0
120.	9.28	148.5	0.326	1.92	6.67	331.3
121.	9.33	148.1	0.329	1.92	6.69	331.5
122.	9.39	147.7	0.331	1.93	6.71	331.7
123.	9.47	147.2	0.335	1.94	6.75	331.9
200.	9.57	146.5	0.340	1.96	6.87	331.8
201.	9.59	144.6	0.341	1.98	6.91	331.6
202.	9.67	142.7	0.345	2.01	6.92	331.0
203.	9.77	140.5	0.350	2.05	6.95	330.3
204.	9.92	138.3	0.358	2.10	6.99	329.4
205.	10.14	136.0	0.368	2.16	7.04	328.2
206.	10.43	133.6	0.383	2.24	7.11	327.1
207.	10.84	131.0	0.404	2.35	7.24	326.1

208.	11.37	128.6	0.431	2.49	7.45	325.0
209.	12.05	126.2	0.467	2.66	7.85	324.2
210.	12.92	124.3	0.513	2.87	8.16	323.5
211.	14.03	122.8	0.573	3.13	8.38	323.3
212.	15.40	122.7	0.648	3.44	8.63	324.1
213.	16.32	124.9	0.700	3.77	8.97	326.5
214.	17.33	128.2	0.759	4.14	9.27	330.8
215.	18.39	132.6	0.822	4.60	9.54	338.0
216.	19.37	138.6	0.881	5.10	9.91	345.5
217.	20.10	146.7	0.926	5.58	10.49	352.5
218.	20.50	157.1	0.950	6.02	10.84	359.8
219.	20.20	172.4	0.931	6.34	11.24	8.2
220.	18.78	186.7	0.845	6.32	11.59	16.3
221.	16.87	199.4	0.732	5.81	11.00	24.0
222.	14.90	209.2	0.620	5.17	10.48	29.2
223.	13.00	215.7	0.517	4.54	9.70	31.7
300.	11.35	219.8	0.430	4.06	9.23	31.9
301.	9.88	221.1	0.356	3.69	8.76	31.5
302.	8.75	219.1	0.301	3.38	8.54	30.3
303.	7.82	214.1	0.258	3.16	8.44	28.9
304.	7.36	207.8	0.239	2.96	8.32	26.5
305.	7.30	201.1	0.237	2.78	8.15	24.5
306.	7.37	196.6	0.240	2.63	7.92	21.9

Storm of 40083106 at grid point 617

ddhh	WS	WD	U*	Hs	Tp	VMD
3107.	9.49	147.1	0.336	0.10	4.18	327.5
3108.	9.48	147.2	0.336	0.31	3.24	327.6
3109.	9.47	147.3	0.335	0.71	3.24	327.8
3110.	9.46	147.3	0.335	0.95	3.24	326.2
3111.	9.44	147.4	0.334	1.16	4.18	326.6
3112.	9.43	147.5	0.333	1.36	4.42	326.6
3113.	9.41	147.6	0.333	1.50	5.53	327.1
3114.	9.40	147.7	0.332	1.59	5.66	327.8
3115.	9.39	147.8	0.331	1.65	5.72	328.1
3116.	9.38	147.9	0.331	1.69	5.81	328.3
3117.	9.37	147.9	0.330	1.73	5.92	328.4
3118.	9.35	148.0	0.330	1.76	6.01	328.2
3119.	9.34	148.1	0.329	1.78	6.08	328.0
3120.	9.33	148.1	0.329	1.80	6.14	327.8
3121.	9.32	148.2	0.328	1.82	6.18	327.7
3122.	9.31	148.3	0.328	1.83	6.23	327.7
3123.	9.30	148.3	0.327	1.84	6.27	327.8
100.	9.29	148.4	0.327	1.85	6.33	327.9
101.	9.28	148.5	0.326	1.86	6.36	328.0
102.	9.27	148.6	0.326	1.86	6.38	328.0
103.	9.26	148.6	0.325	1.87	6.41	328.0
104.	9.25	148.7	0.325	1.87	6.43	328.1
105.	9.24	148.7	0.324	1.88	6.45	328.1
106.	9.24	148.8	0.324	1.88	6.47	328.2
107.	9.23	148.8	0.324	1.89	6.50	328.3
108.	9.22	148.9	0.323	1.89	6.52	328.4
109.	9.22	148.9	0.323	1.90	6.54	328.5
110.	9.21	148.9	0.323	1.90	6.57	328.6
111.	9.20	149.0	0.322	1.91	6.59	328.7
112.	9.19	149.0	0.322	1.91	6.62	328.8
113.	9.20	148.9	0.322	1.92	6.65	329.0
114.	9.20	148.7	0.322	1.93	6.69	329.1
115.	9.19	148.6	0.322	1.93	6.72	329.3
116.	9.19	148.4	0.322	1.94	6.76	329.5
117.	9.20	148.1	0.322	1.94	6.80	329.7
118.	9.22	147.8	0.323	1.95	6.84	330.0
119.	9.26	147.3	0.325	1.96	6.86	330.2
120.	9.31	146.8	0.328	1.96	6.87	330.5
121.	9.39	146.2	0.331	1.97	6.88	330.8
122.	9.47	145.4	0.335	1.98	6.88	331.1
123.	9.58	144.5	0.341	1.99	6.89	331.4
200.	9.71	143.4	0.347	2.02	6.92	331.0
201.	9.78	141.1	0.351	2.06	6.97	330.5
202.	9.91	138.4	0.357	2.11	7.01	329.5
203.	10.08	135.5	0.366	2.17	7.07	328.1
204.	10.32	132.5	0.377	2.25	7.16	327.0
205.	10.64	129.1	0.394	2.34	7.29	325.7
206.	11.06	125.4	0.415	2.46	7.52	324.2
207.	11.67	121.3	0.446	2.60	7.95	322.5

208.	12.48	117.0	0.489	2.79	8.17	321.0
209.	13.55	112.5	0.546	3.03	8.38	319.5
210.	15.00	108.5	0.626	3.31	8.65	318.2
211.	17.03	104.1	0.742	3.63	9.01	316.7
212.	20.06	100.6	0.923	4.08	9.34	316.4
213.	22.62	101.7	1.084	4.66	9.73	318.6
214.	26.05	104.9	1.312	5.64	10.30	324.4
215.	30.56	114.4	1.633	7.31	10.73	339.7
216.	34.23	142.4	1.912	8.81	12.16	351.0
217.	32.57	185.4	1.784	9.08	12.46	9.7
218.	26.93	214.6	1.373	7.90	11.77	21.3
219.	20.12	237.6	0.927	6.12	10.97	25.0
220.	15.59	250.7	0.659	4.75	10.52	30.3
221.	12.77	258.4	0.505	3.96	10.73	31.3
222.	10.59	261.9	0.391	3.43	10.61	32.5
223.	8.64	260.3	0.296	3.12	10.30	29.5
300.	6.99	256.4	0.225	2.84	9.78	26.9
301.	5.79	246.3	0.185	2.67	9.56	24.7
302.	5.13	234.1	0.167	2.51	9.36	20.9
303.	4.98	220.6	0.162	2.34	9.09	16.9
304.	5.17	208.8	0.168	2.20	8.69	12.4
305.	5.67	200.5	0.182	2.09	8.50	9.4
306.	6.18	194.9	0.197	2.01	8.38	6.8

Storm of 40083106 at grid point 691

ddhh	WS	WD	U*	Hs	Tp	VMD
3107.	9.61	146.3	0.342	0.10	4.19	326.7
3108.	9.60	146.3	0.342	0.33	3.24	326.7
3109.	9.59	146.4	0.341	0.73	3.24	326.9
3110.	9.58	146.5	0.341	0.96	3.24	325.4
3111.	9.56	146.6	0.340	1.17	4.20	325.8
3112.	9.55	146.6	0.339	1.39	4.48	325.8
3113.	9.54	146.7	0.339	1.53	5.57	326.5
3114.	9.53	146.8	0.338	1.63	5.68	327.1
3115.	9.52	146.9	0.338	1.69	5.76	327.3
3116.	9.51	146.9	0.337	1.74	5.88	327.5
3117.	9.50	147.0	0.337	1.78	6.02	327.5
3118.	9.49	147.1	0.336	1.81	6.13	327.3
3119.	9.49	147.1	0.336	1.84	6.21	327.1
3120.	9.48	147.1	0.336	1.86	6.29	327.0
3121.	9.48	147.2	0.336	1.87	6.35	327.0
3122.	9.47	147.2	0.335	1.89	6.43	327.1
3123.	9.47	147.3	0.335	1.90	6.51	327.2
100.	9.46	147.3	0.335	1.91	6.58	327.3
101.	9.45	147.3	0.335	1.92	6.64	327.3
102.	9.44	147.4	0.334	1.93	6.68	327.4
103.	9.44	147.4	0.334	1.93	6.72	327.4
104.	9.43	147.5	0.333	1.94	6.76	327.5
105.	9.42	147.5	0.333	1.95	6.81	327.6
106.	9.41	147.5	0.332	1.96	6.86	327.7
107.	9.40	147.5	0.332	1.96	6.87	327.9
108.	9.39	147.6	0.331	1.97	6.88	328.0
109.	9.38	147.6	0.331	1.98	6.90	328.2
110.	9.37	147.6	0.331	1.99	6.91	328.4
111.	9.37	147.6	0.331	2.00	6.92	328.7
112.	9.37	147.6	0.331	2.01	6.93	328.9
113.	9.40	147.3	0.332	2.02	6.94	329.2
114.	9.43	146.9	0.334	2.03	6.96	329.5
115.	9.49	146.5	0.336	2.04	6.97	329.9
116.	9.54	146.1	0.339	2.06	6.98	330.2
117.	9.60	145.6	0.342	2.07	6.99	330.6
118.	9.69	145.0	0.346	2.08	7.00	331.0
119.	9.81	144.1	0.352	2.09	7.01	331.4
120.	9.95	143.0	0.359	2.13	7.06	331.2
121.	10.14	141.8	0.368	2.19	7.14	330.6
122.	10.34	140.5	0.379	2.27	7.23	330.0
123.	10.58	138.9	0.391	2.35	7.35	329.3
200.	10.87	137.3	0.406	2.46	7.54	328.8
201.	11.18	134.0	0.421	2.57	7.77	327.9
202.	11.61	130.5	0.443	2.71	8.05	327.0
203.	12.18	126.6	0.473	2.88	8.24	325.9
204.	12.91	122.4	0.512	3.08	8.48	324.6
205.	13.89	118.1	0.565	3.30	8.71	322.7
206.	15.19	113.7	0.637	3.55	9.12	321.0
207.	17.19	109.5	0.751	3.88	9.32	319.9

208.	20.17	106.5	0.930	4.33	9.58	319.9
209.	24.78	106.5	1.227	5.11	9.91	321.1
210.	31.84	117.2	1.729	6.64	10.49	328.7
211.	35.19	169.2	1.988	9.33	14.05	2.8
212.	27.12	219.2	1.387	8.46	13.16	18.8
213.	21.15	239.6	0.991	6.54	11.83	25.7
214.	16.86	252.9	0.731	5.21	11.75	29.8
215.	14.40	262.8	0.593	4.44	11.07	31.8
216.	12.48	269.2	0.489	3.92	10.82	36.0
217.	10.73	272.9	0.398	3.53	10.70	36.3
218.	9.03	273.4	0.314	3.20	10.44	36.0
219.	7.08	274.7	0.228	2.97	9.87	36.0
220.	5.38	269.9	0.174	2.79	9.56	36.7
221.	4.12	260.9	0.139	2.66	9.38	36.9
222.	3.34	244.6	0.116	2.53	9.14	33.8
223.	3.11	224.2	0.110	2.36	8.65	24.0
300.	3.43	206.9	0.119	2.21	8.47	16.4
301.	4.16	195.4	0.140	2.06	8.35	9.0
302.	4.80	189.3	0.157	1.96	8.23	4.7
303.	5.43	185.2	0.175	1.91	8.11	2.9
304.	5.93	183.1	0.190	1.87	7.88	1.6
305.	6.39	181.7	0.204	1.85	7.62	0.5
306.	6.81	180.5	0.219	1.85	7.47	359.3

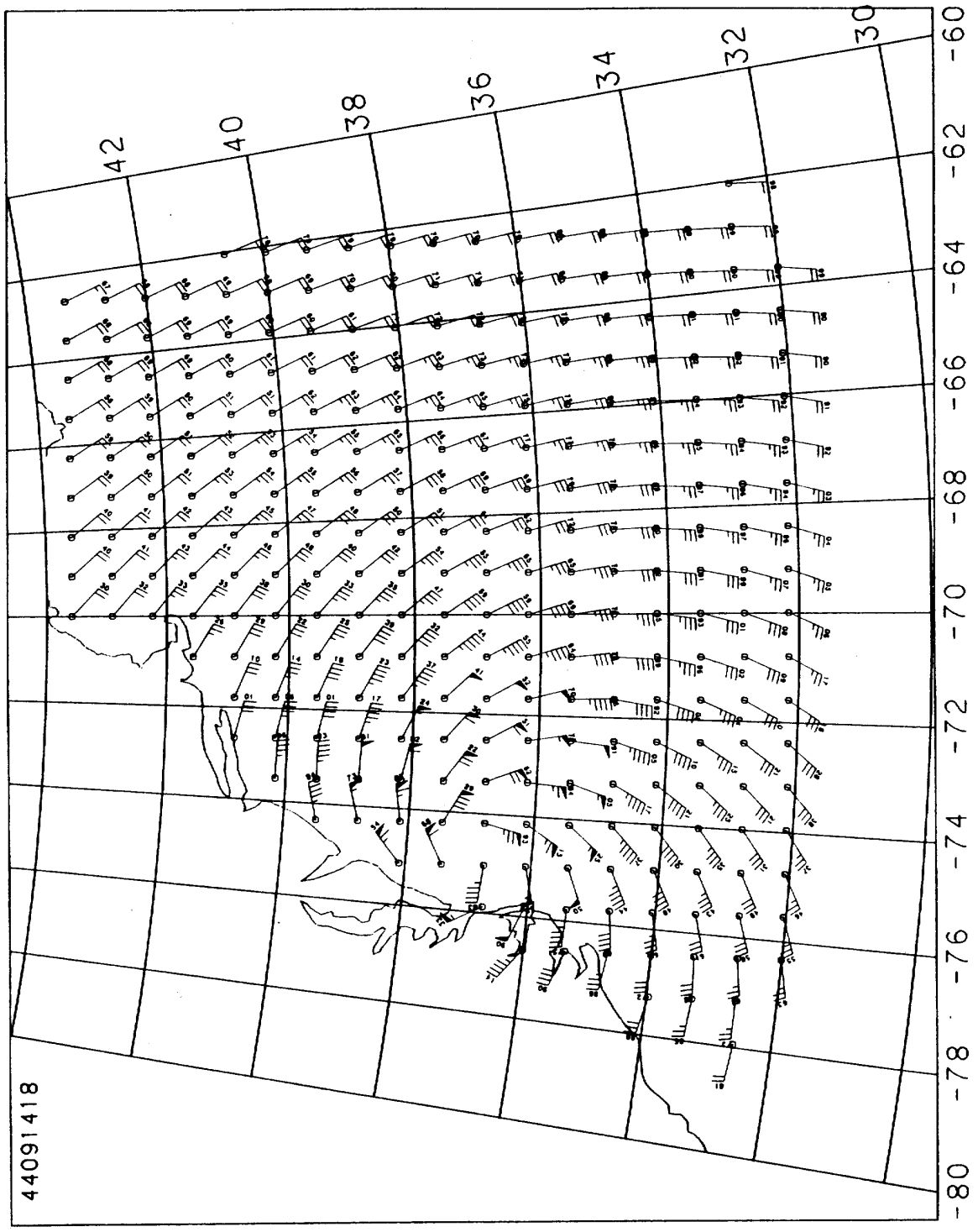
Storm of 40083106 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
3107.	9.49	146.9	0.336	0.10	4.18	327.3
3108.	9.48	146.9	0.336	0.31	3.24	327.4
3109.	9.47	147.0	0.335	0.71	3.24	327.6
3110.	9.46	147.1	0.335	0.95	3.24	325.8
3111.	9.44	147.2	0.334	1.16	4.18	326.3
3112.	9.43	147.3	0.333	1.36	4.42	326.3
3113.	9.41	147.3	0.333	1.50	5.53	326.9
3114.	9.40	147.4	0.332	1.59	5.66	327.6
3115.	9.39	147.5	0.331	1.65	5.72	327.8
3116.	9.38	147.6	0.331	1.69	5.82	328.0
3117.	9.37	147.6	0.330	1.73	5.93	328.0
3118.	9.35	147.7	0.330	1.76	6.02	327.9
3119.	9.34	147.8	0.329	1.78	6.09	327.7
3120.	9.33	147.8	0.329	1.80	6.14	327.4
3121.	9.32	147.9	0.328	1.82	6.19	327.3
3122.	9.31	147.9	0.328	1.83	6.24	327.4
3123.	9.30	148.0	0.327	1.84	6.29	327.5
100.	9.29	148.1	0.327	1.85	6.35	327.5
101.	9.28	148.1	0.326	1.86	6.38	327.5
102.	9.26	148.2	0.325	1.86	6.41	327.5
103.	9.26	148.2	0.325	1.87	6.43	327.5
104.	9.25	148.3	0.325	1.88	6.46	327.6
105.	9.24	148.3	0.324	1.88	6.49	327.6
106.	9.23	148.3	0.324	1.89	6.51	327.6
107.	9.23	148.4	0.323	1.89	6.54	327.7
108.	9.22	148.4	0.323	1.90	6.57	327.7
109.	9.21	148.4	0.323	1.90	6.60	327.8
110.	9.20	148.4	0.322	1.91	6.63	327.9
111.	9.19	148.5	0.322	1.92	6.67	328.0
112.	9.19	148.5	0.322	1.92	6.70	328.2
113.	9.19	148.3	0.322	1.93	6.74	328.3
114.	9.19	148.1	0.322	1.94	6.79	328.5
115.	9.19	147.8	0.322	1.94	6.84	328.7
116.	9.19	147.5	0.322	1.95	6.86	328.9
117.	9.20	147.2	0.322	1.96	6.88	329.1
118.	9.23	146.8	0.324	1.97	6.89	329.4
119.	9.28	146.1	0.326	1.98	6.90	329.7
120.	9.34	145.4	0.329	1.99	6.91	330.1
121.	9.43	144.6	0.333	2.00	6.92	330.4
122.	9.51	143.6	0.338	2.02	6.94	330.8
123.	9.64	142.4	0.344	2.03	6.95	331.1
200.	9.79	141.0	0.351	2.07	6.98	330.7
201.	9.89	138.2	0.356	2.13	7.03	329.7
202.	10.05	135.0	0.364	2.18	7.09	328.5
203.	10.23	131.5	0.373	2.25	7.18	327.4
204.	10.51	127.7	0.387	2.34	7.33	326.0
205.	10.88	123.5	0.406	2.44	7.56	324.4
206.	11.35	118.6	0.430	2.56	7.97	322.5
207.	12.07	113.2	0.467	2.72	8.14	320.3

208.	12.98	107.1	0.516	2.91	8.33	318.4
209.	14.24	100.4	0.584	3.10	8.53	315.2
210.	15.95	93.2	0.680	3.35	8.79	312.8
211.	18.40	84.7	0.822	3.63	9.17	309.9
212.	21.91	74.7	1.039	4.03	9.60	305.9
213.	24.97	68.7	1.239	4.65	10.23	303.3
214.	28.34	60.4	1.473	5.81	10.74	308.5
215.	27.85	46.8	1.438	7.34	12.93	329.5
216.	19.79	10.0	0.906	6.39	11.52	317.2
217.	17.32	335.7	0.759	4.81	11.10	318.6
218.	15.81	322.4	0.671	4.49	10.72	315.4
219.	13.45	315.7	0.541	3.84	10.82	335.3
220.	10.91	311.3	0.407	3.27	10.76	352.0
221.	8.76	308.5	0.301	2.93	10.69	354.9
222.	6.50	304.7	0.208	2.68	10.60	358.3
223.	4.60	293.9	0.152	2.44	10.46	5.3
300.	3.34	277.0	0.117	2.25	9.82	11.2
301.	2.93	248.4	0.104	2.09	9.58	8.5
302.	3.17	224.7	0.112	1.91	9.43	2.2
303.	3.72	209.5	0.127	1.79	9.26	358.5
304.	4.38	199.8	0.146	1.74	8.88	357.9
305.	5.09	194.1	0.165	1.71	8.59	357.1
306.	5.75	190.6	0.184	1.71	8.45	356.8

STORM #3

Hurricane of September 1944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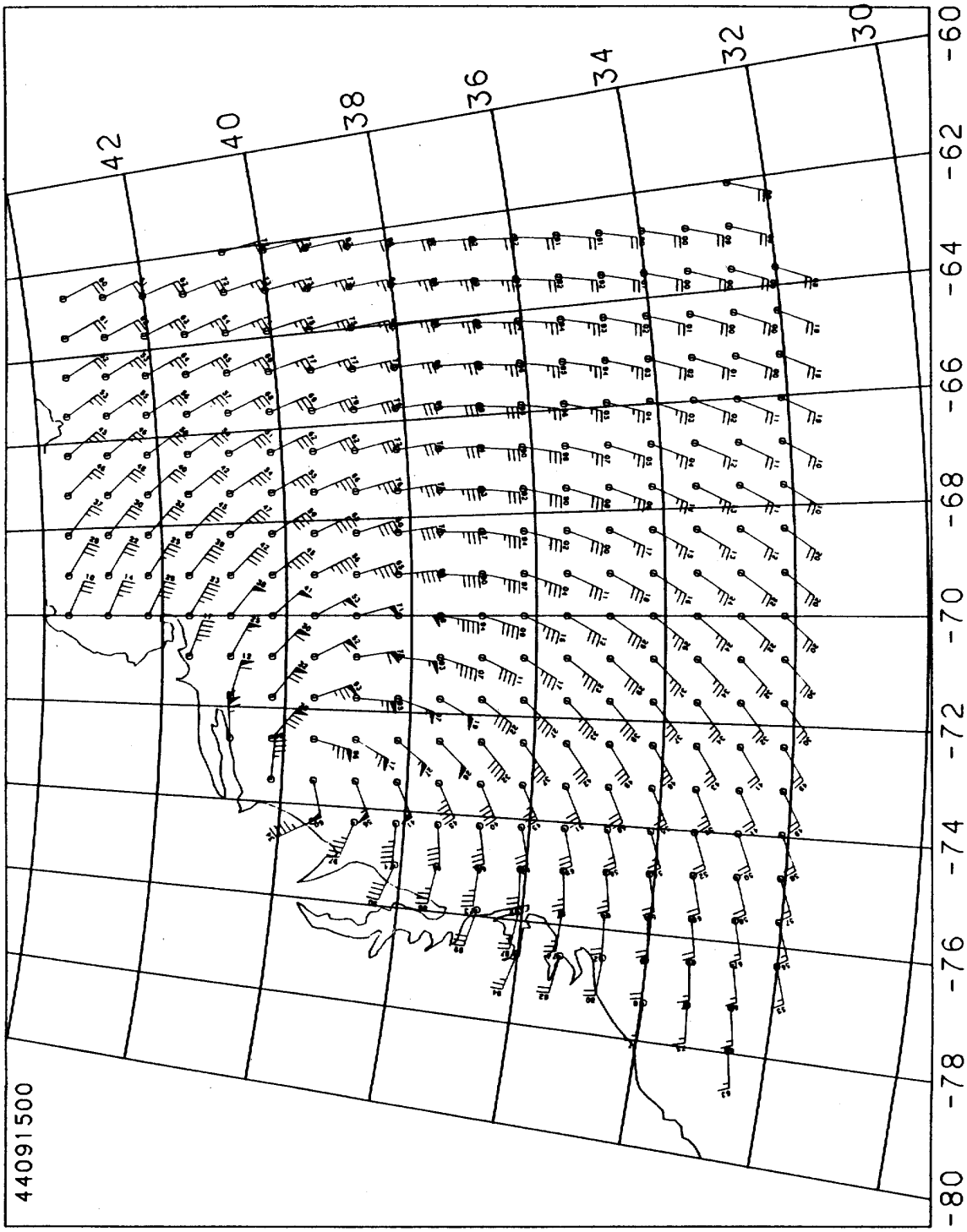
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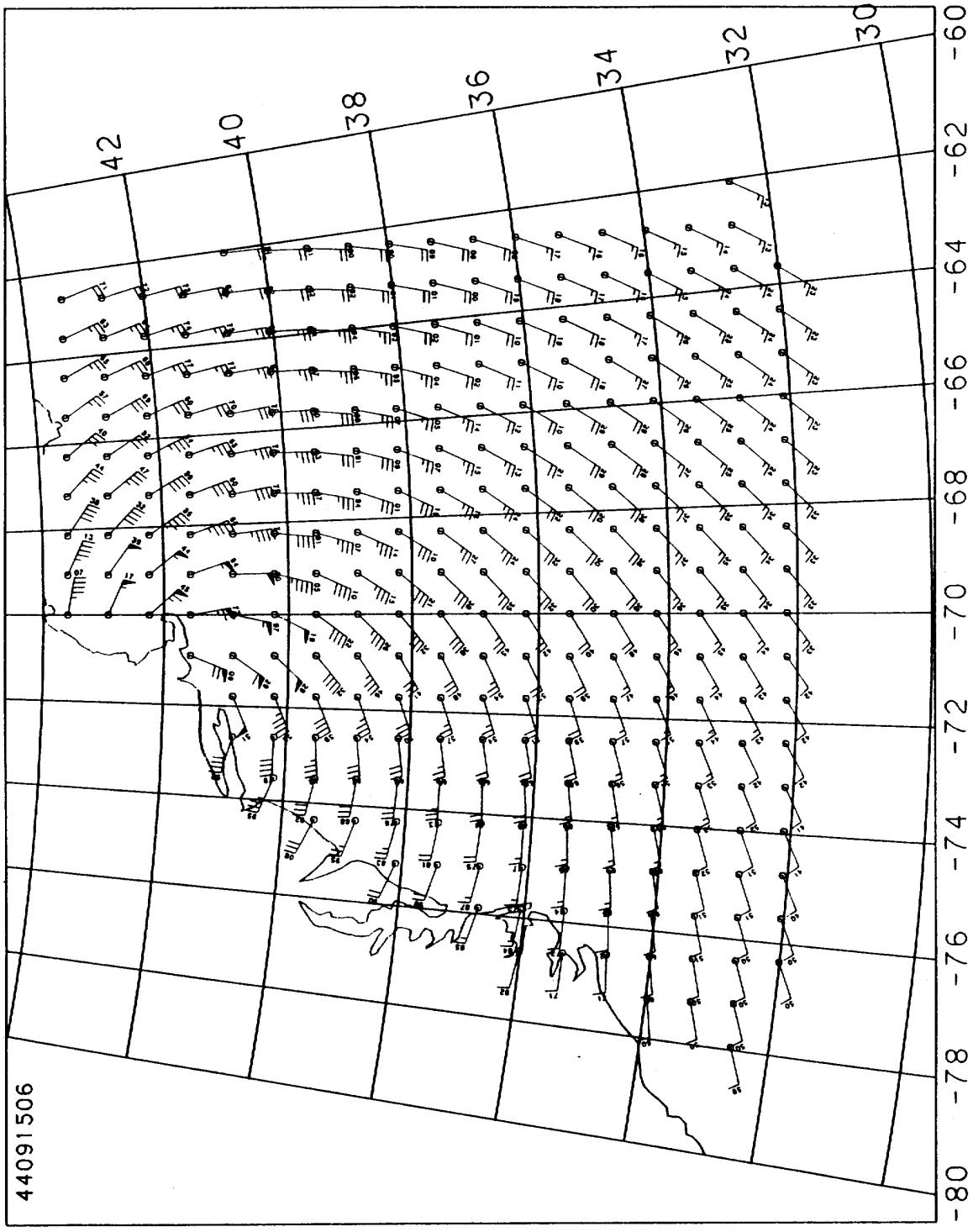
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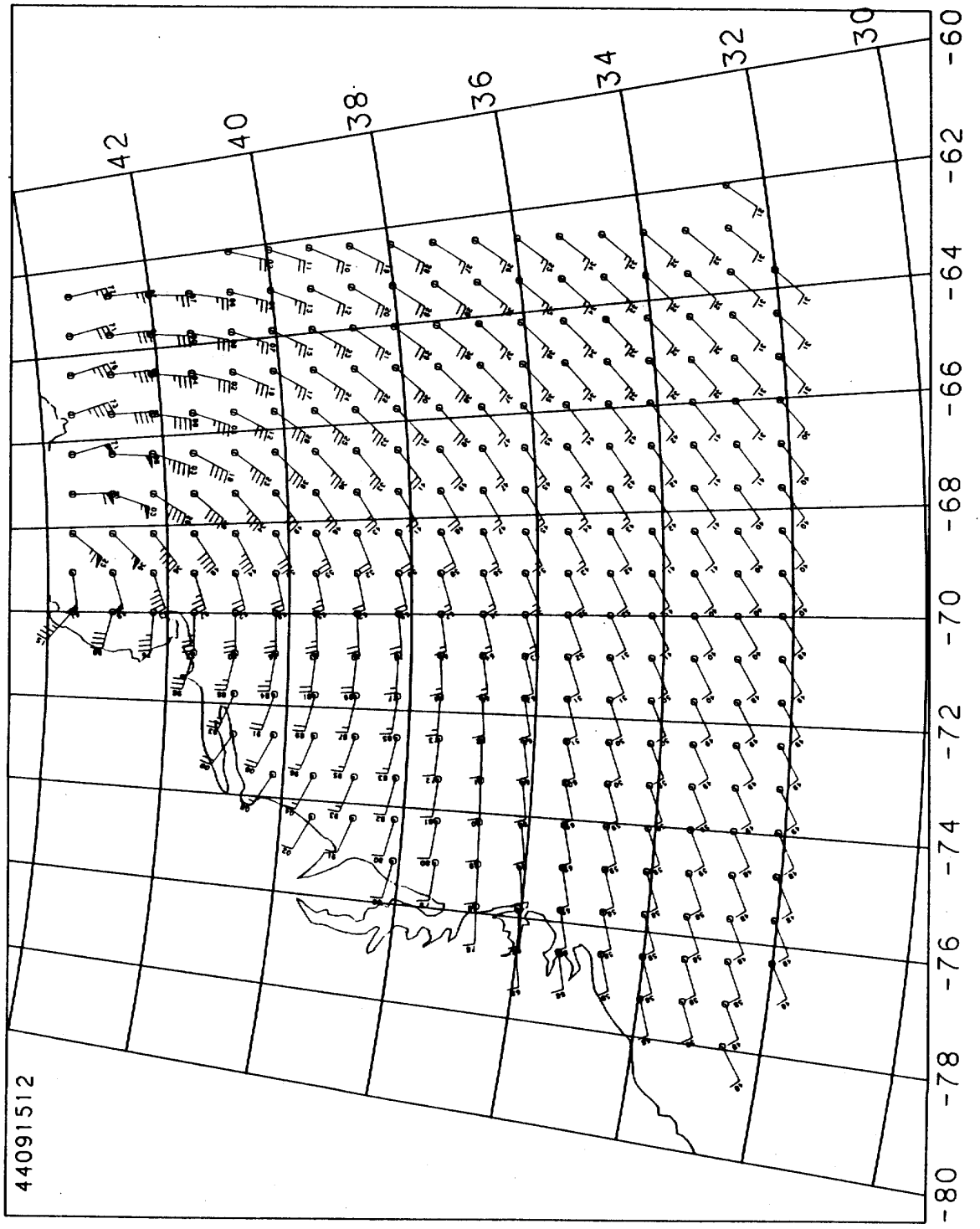

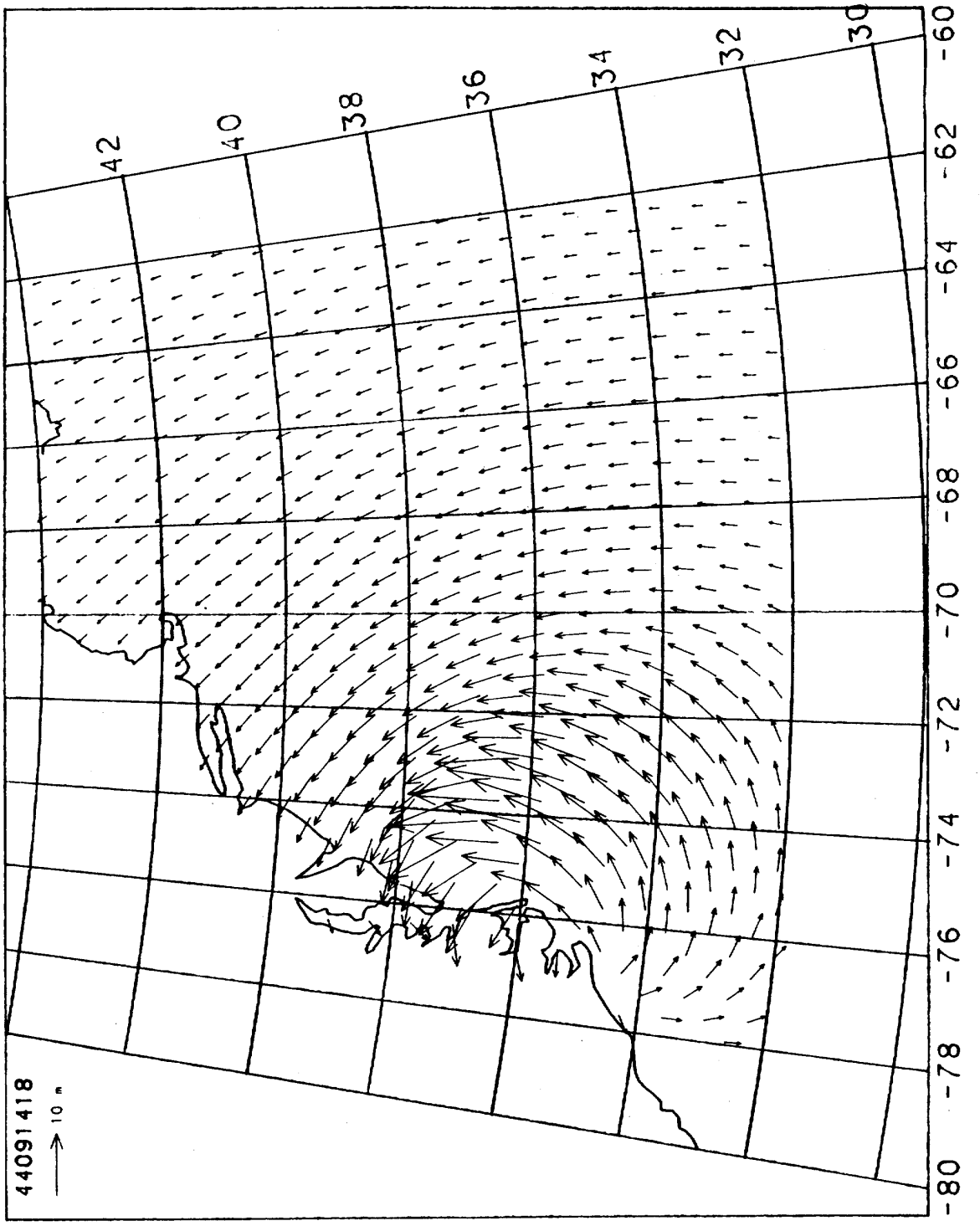
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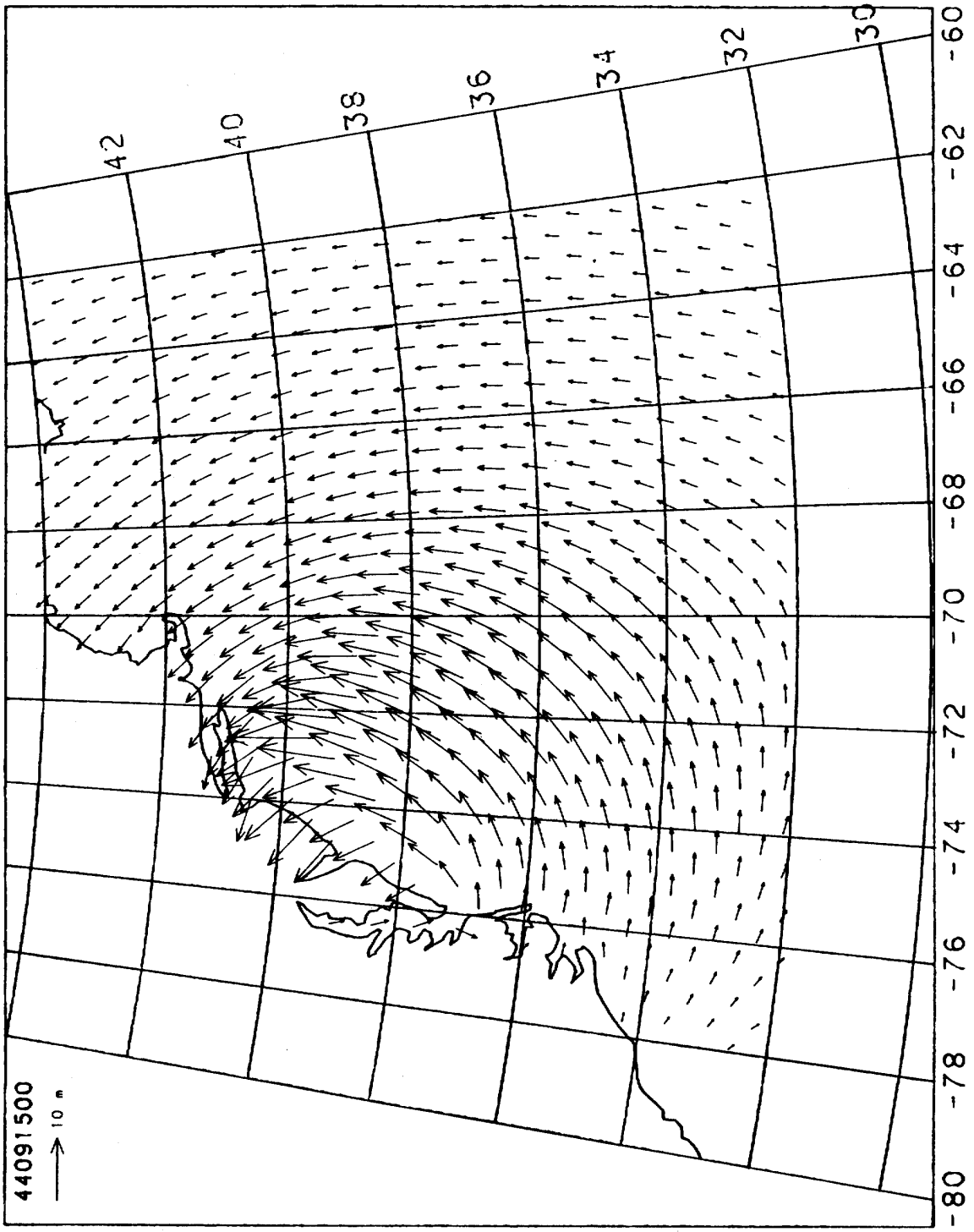

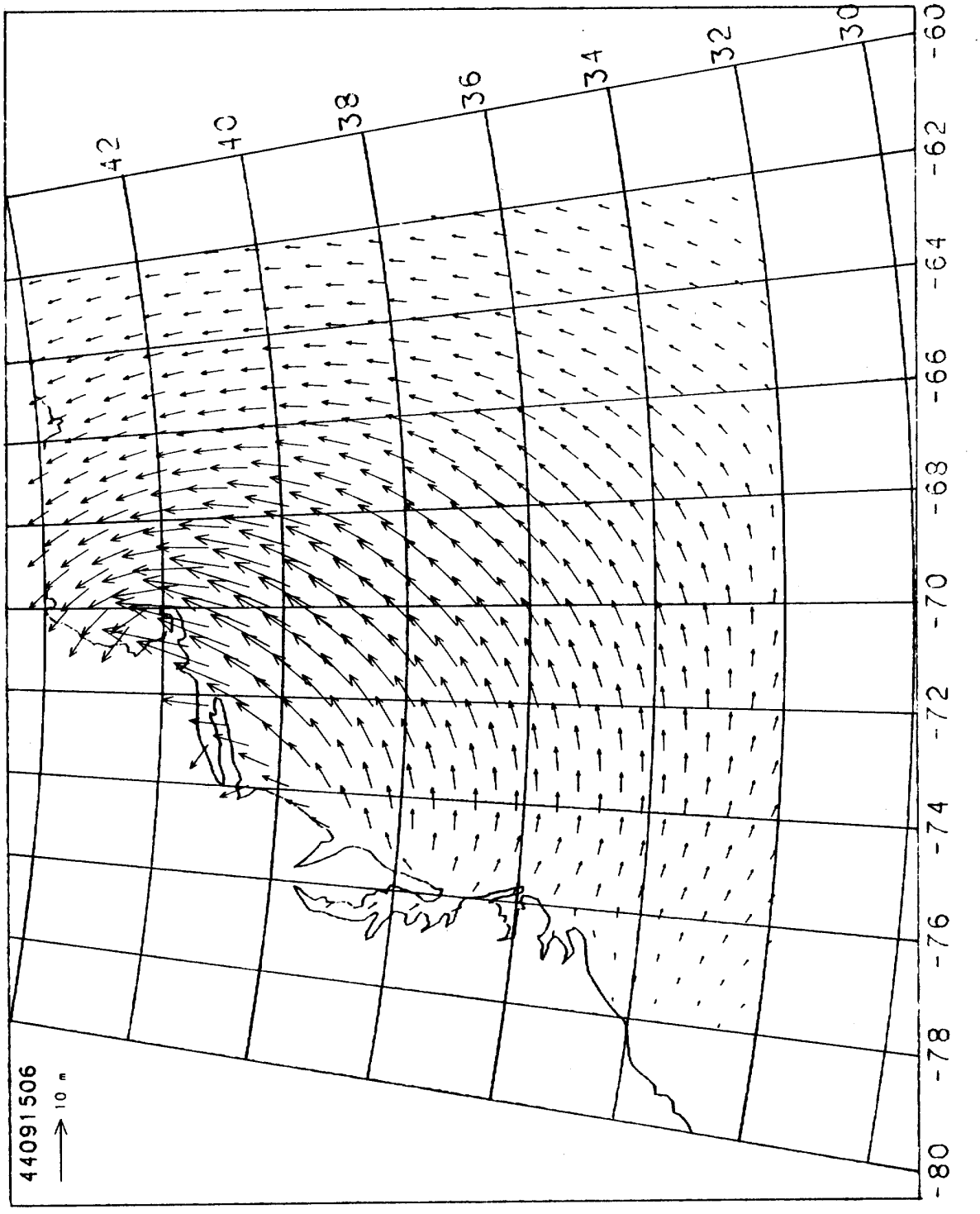
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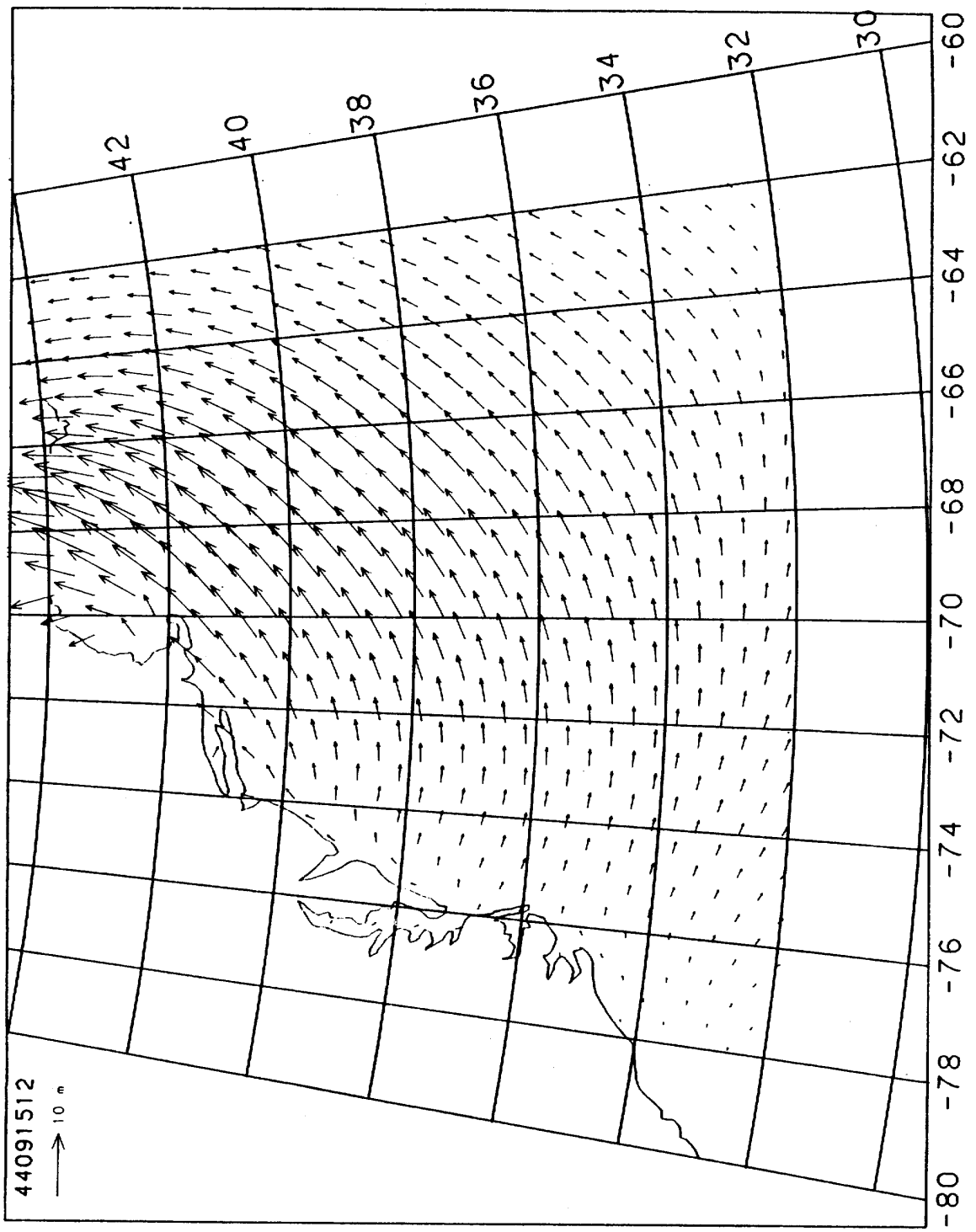
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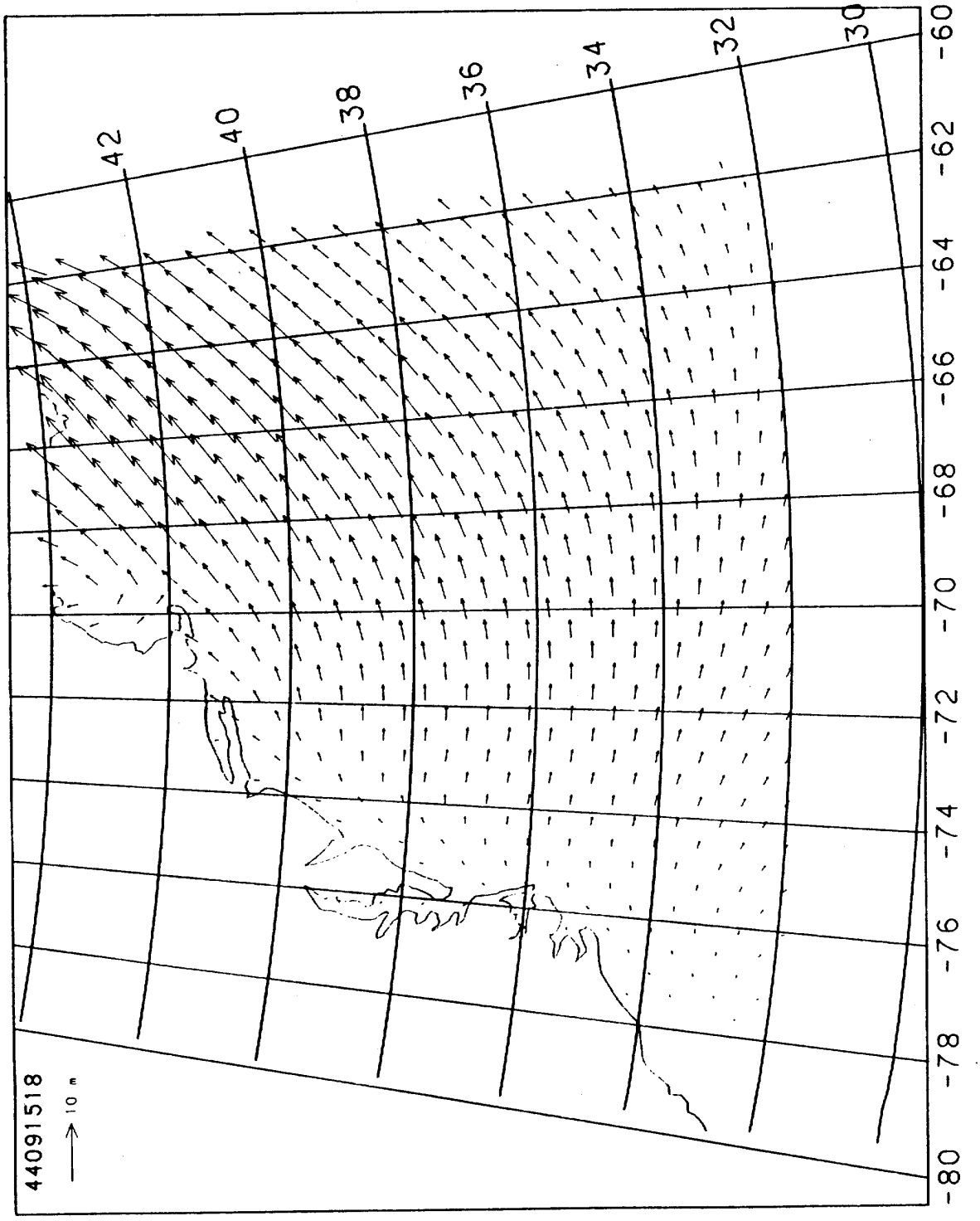
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Storm of 44091318 at grid point 383

ddhh	WS	WD	U*	Hs	Tp	VMD
1319.	6.90	132.0	0.222	0.05	3.24	311.2
1320.	7.00	134.2	0.225	0.12	3.24	312.2
1321.	7.09	135.7	0.229	0.29	3.24	313.3
1322.	7.19	137.9	0.233	0.58	3.24	314.6
1323.	7.28	139.5	0.236	0.73	3.24	316.6
1400.	7.38	141.9	0.240	0.85	3.24	318.6
1401.	7.47	143.3	0.244	0.96	4.08	319.4
1402.	7.55	145.5	0.247	1.00	4.12	320.7
1403.	7.63	146.9	0.250	1.04	4.15	322.6
1404.	7.70	149.1	0.253	1.07	4.16	324.5
1405.	7.77	150.4	0.256	1.10	4.20	325.7
1406.	7.82	152.4	0.258	1.14	4.28	327.4
1407.	7.88	154.2	0.261	1.19	4.42	328.8
1408.	7.91	156.5	0.262	1.22	4.57	329.9
1409.	7.97	158.2	0.265	1.24	4.78	331.3
1410.	8.02	159.6	0.267	1.27	5.01	333.0
1411.	8.06	161.7	0.269	1.30	5.19	334.9
1412.	8.12	163.1	0.272	1.33	5.38	336.4
1413.	8.39	161.4	0.284	1.38	5.54	337.4
1414.	8.69	159.8	0.298	1.46	5.66	337.9
1415.	8.97	158.3	0.311	1.54	5.76	337.6
1416.	9.26	156.9	0.325	1.62	5.88	337.0
1417.	9.57	155.6	0.340	1.72	6.03	336.4
1418.	9.89	154.4	0.356	1.82	6.29	336.1
1419.	10.22	154.0	0.372	1.94	6.82	336.4
1420.	10.62	153.5	0.393	2.07	6.97	336.9
1421.	11.04	153.3	0.414	2.20	7.10	337.3
1422.	11.51	153.2	0.438	2.35	7.28	337.8
1423.	12.06	152.9	0.467	2.51	7.58	338.4
1500.	12.63	153.1	0.497	2.69	8.03	339.2
1501.	12.84	153.4	0.508	2.84	8.15	339.8
1502.	13.07	153.9	0.521	2.97	8.29	340.2
1503.	13.36	154.8	0.536	3.12	8.50	340.7
1504.	13.70	155.6	0.554	3.29	8.71	341.7
1505.	14.04	157.5	0.573	3.47	8.98	343.2
1506.	14.36	159.5	0.590	3.64	9.23	345.0
1507.	15.18	161.6	0.636	3.89	9.44	347.3
1508.	16.09	163.3	0.688	4.22	9.73	350.1
1509.	16.98	166.8	0.739	4.61	10.29	354.1
1510.	17.90	171.1	0.793	5.10	10.53	359.2
1511.	18.65	177.0	0.837	5.66	10.83	5.1
1512.	19.17	184.5	0.868	6.23	11.36	11.4
1513.	20.21	195.0	0.932	6.81	12.22	17.6
1514.	20.61	208.9	0.957	7.26	13.60	24.2
1515.	19.81	225.1	0.907	7.31	16.12	32.1
1516.	18.17	241.4	0.808	7.02	15.98	40.5
1517.	16.33	255.9	0.701	6.69	15.43	47.0
1518.	14.46	268.7	0.596	6.50	14.80	52.2

Storm of 44091318 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
1319.	7.48	130.5	0.244	0.05	3.24	309.8
1320.	7.58	132.8	0.248	0.14	3.24	310.3
1321.	7.68	134.2	0.252	0.33	3.24	310.3
1322.	7.77	136.3	0.256	0.65	3.24	312.9
1323.	7.86	137.7	0.260	0.87	3.24	315.7
1400.	7.94	139.9	0.264	1.02	4.11	316.2
1401.	8.04	141.2	0.268	1.09	4.16	317.4
1402.	8.13	143.1	0.272	1.13	4.19	319.2
1403.	8.23	144.4	0.276	1.18	4.24	320.8
1404.	8.31	146.4	0.280	1.24	4.41	322.4
1405.	8.40	147.5	0.284	1.31	4.83	323.9
1406.	8.48	149.3	0.288	1.35	5.48	325.0
1407.	8.58	150.8	0.293	1.39	5.56	326.0
1408.	8.65	152.9	0.296	1.43	5.61	327.3
1409.	8.76	154.1	0.301	1.48	5.66	328.6
1410.	8.88	155.4	0.307	1.53	5.72	330.4
1411.	8.95	157.1	0.310	1.58	5.78	332.3
1412.	9.05	158.2	0.315	1.63	5.88	333.6
1413.	9.38	156.3	0.331	1.69	6.01	334.1
1414.	9.72	154.6	0.348	1.79	6.22	333.8
1415.	10.06	153.1	0.365	1.90	6.64	333.5
1416.	10.46	152.0	0.385	2.02	6.96	333.5
1417.	10.88	151.0	0.406	2.17	7.11	333.7
1418.	11.34	150.0	0.430	2.32	7.26	333.7
1419.	11.87	149.7	0.457	2.49	7.51	333.7
1420.	12.47	149.0	0.488	2.69	8.02	333.8
1421.	13.13	149.2	0.524	2.91	8.19	334.2
1422.	13.81	149.3	0.560	3.13	8.36	334.9
1423.	14.63	149.7	0.605	3.37	8.68	336.1
1500.	15.44	150.8	0.651	3.63	9.16	337.6
1501.	15.87	152.1	0.675	3.87	9.26	339.5
1502.	16.30	154.0	0.700	4.09	9.44	341.6
1503.	16.74	156.5	0.725	4.31	9.66	343.8
1504.	17.18	159.5	0.750	4.56	9.92	346.4
1505.	17.52	163.4	0.770	4.85	10.34	349.7
1506.	17.66	168.3	0.779	5.19	10.58	354.4
1507.	18.40	173.2	0.823	5.66	10.84	0.0
1508.	18.98	179.4	0.857	6.19	11.21	6.1
1509.	19.32	187.1	0.877	6.69	11.93	12.3
1510.	19.33	196.2	0.879	7.06	12.71	18.1
1511.	18.98	206.0	0.857	7.19	16.14	24.2
1512.	18.24	216.2	0.813	7.14	16.01	31.0
1513.	17.32	229.2	0.759	6.97	15.43	37.9
1514.	15.92	242.8	0.678	6.70	14.80	43.9
1515.	14.48	255.2	0.597	6.55	14.43	47.3
1516.	12.88	266.2	0.510	6.39	13.56	50.5
1517.	11.31	274.9	0.428	6.28	13.15	53.3
1518.	9.66	282.3	0.345	6.16	12.34	55.5

Storm of 44091318 at grid point 500

ddhh	WS	WD	U*	Hs	Tp	VMD
1319.	7.09	130.8	0.229	0.05	3.24	310.1
1320.	7.20	133.0	0.233	0.12	3.24	310.6
1321.	7.29	134.5	0.237	0.30	3.24	310.9
1322.	7.39	136.9	0.241	0.60	3.24	312.6
1323.	7.48	138.2	0.244	0.78	3.24	315.6
1400.	7.55	140.4	0.247	0.92	4.02	316.7
1401.	7.64	141.8	0.251	1.00	4.12	317.7
1402.	7.71	143.9	0.254	1.04	4.15	319.0
1403.	7.78	145.2	0.257	1.08	4.17	320.8
1404.	7.84	147.2	0.259	1.11	4.20	322.6
1405.	7.92	148.4	0.263	1.16	4.29	323.9
1406.	7.96	150.3	0.265	1.21	4.45	325.5
1407.	8.03	151.8	0.268	1.24	4.66	326.7
1408.	8.06	154.0	0.269	1.27	4.94	327.8
1409.	8.13	155.4	0.272	1.30	5.42	328.9
1410.	8.21	156.7	0.276	1.33	5.50	330.3
1411.	8.24	158.6	0.277	1.37	5.52	332.1
1412.	8.34	159.7	0.281	1.41	5.56	333.6
1413.	8.67	157.7	0.297	1.47	5.66	334.7
1414.	8.98	155.9	0.312	1.55	5.78	334.9
1415.	9.28	154.1	0.326	1.64	5.91	334.2
1416.	9.64	152.3	0.344	1.75	6.10	333.4
1417.	10.01	150.7	0.362	1.86	6.45	332.8
1418.	10.38	149.2	0.381	1.98	6.91	332.6
1419.	10.80	148.5	0.402	2.12	7.05	332.8
1420.	11.28	147.4	0.427	2.26	7.20	332.8
1421.	11.80	146.7	0.454	2.43	7.42	332.7
1422.	12.42	146.1	0.486	2.63	7.86	332.6
1423.	13.10	145.2	0.522	2.84	8.15	332.7
1500.	13.87	145.0	0.564	3.07	8.32	333.0
1501.	14.23	145.0	0.583	3.27	8.55	333.7
1502.	14.70	145.5	0.610	3.47	8.98	334.9
1503.	15.19	146.2	0.636	3.67	9.22	336.2
1504.	15.80	147.5	0.671	3.90	9.36	338.0
1505.	16.42	149.5	0.706	4.16	9.57	340.0
1506.	17.06	152.2	0.744	4.47	9.79	342.7
1507.	18.32	154.4	0.818	4.87	10.22	345.8
1508.	19.76	157.7	0.905	5.43	10.59	350.5
1509.	21.16	163.1	0.992	6.21	11.04	357.3
1510.	22.48	170.5	1.075	7.06	11.70	4.1
1511.	23.26	180.8	1.126	7.95	17.97	11.0
1512.	23.27	193.7	1.127	8.72	17.65	18.5
1513.	23.16	212.2	1.119	9.13	17.27	25.8
1514.	21.74	232.0	1.028	8.87	16.04	34.5
1515.	19.53	248.9	0.890	8.23	15.48	43.5
1516.	17.10	263.2	0.746	7.61	14.67	50.8
1517.	14.83	275.6	0.617	7.21	14.03	53.7
1518.	12.58	285.4	0.495	6.74	13.51	56.0

Storm of 44091318 at grid point 617

ddhh	WS	WD	U*	Hs	Tp	VMD
1319.	7.27	129.6	0.236	0.05	3.24	308.8
1320.	7.37	131.8	0.240	0.13	3.24	309.3
1321.	7.45	133.2	0.243	0.31	3.24	309.4
1322.	7.53	135.3	0.246	0.62	3.24	311.4
1323.	7.62	136.8	0.250	0.82	3.24	314.5
1400.	7.68	138.9	0.252	0.97	4.08	315.2
1401.	7.76	140.1	0.256	1.04	4.14	316.1
1402.	7.83	142.1	0.259	1.07	4.17	317.6
1403.	7.91	143.2	0.262	1.11	4.20	319.1
1404.	7.96	145.0	0.264	1.15	4.26	320.8
1405.	8.04	146.1	0.268	1.20	4.42	322.0
1406.	8.09	147.9	0.270	1.25	4.68	323.5
1407.	8.16	149.2	0.273	1.29	5.04	324.4
1408.	8.21	151.2	0.276	1.32	5.47	325.5
1409.	8.28	152.3	0.279	1.35	5.53	326.5
1410.	8.38	153.4	0.283	1.39	5.57	327.6
1411.	8.44	155.0	0.286	1.42	5.61	329.1
1412.	8.54	155.7	0.291	1.47	5.66	330.7
1413.	8.90	153.5	0.308	1.54	5.77	331.7
1414.	9.19	151.4	0.322	1.63	5.90	331.5
1415.	9.57	149.0	0.340	1.74	6.09	330.6
1416.	9.97	146.7	0.360	1.85	6.41	329.7
1417.	10.36	144.7	0.380	1.98	6.90	328.9
1418.	10.86	143.0	0.405	2.13	7.07	328.2
1419.	11.34	141.7	0.430	2.30	7.26	327.5
1420.	11.97	139.9	0.462	2.49	7.51	326.7
1421.	12.65	138.5	0.498	2.70	7.95	326.4
1422.	13.37	137.2	0.537	2.91	8.19	326.7
1423.	14.32	135.9	0.589	3.15	8.42	327.3
1500.	15.32	135.2	0.644	3.41	8.69	328.1
1501.	15.99	134.8	0.682	3.66	9.14	329.2
1502.	16.72	134.8	0.724	3.90	9.33	330.1
1503.	17.59	135.7	0.774	4.18	9.52	331.5
1504.	18.64	137.1	0.836	4.53	9.76	333.4
1505.	19.74	139.6	0.904	4.95	10.03	336.0
1506.	20.93	143.3	0.977	5.44	10.38	339.7
1507.	22.97	146.5	1.107	6.18	10.76	345.5
1508.	25.23	153.2	1.257	7.24	11.29	353.8
1509.	27.26	163.9	1.397	8.49	19.17	1.9
1510.	28.28	180.0	1.468	9.89	18.37	11.3
1511.	27.81	200.8	1.435	10.92	17.60	21.2
1512.	26.15	220.2	1.320	10.88	16.56	28.8
1513.	23.61	241.1	1.149	10.11	15.82	37.6
1514.	20.05	257.7	0.922	8.63	15.26	45.8
1515.	17.00	272.0	0.740	7.60	14.73	49.9
1516.	14.31	283.6	0.588	6.70	14.09	52.2
1517.	12.03	292.7	0.465	5.99	13.66	54.2
1518.	10.04	300.3	0.364	5.55	13.33	53.9

Storm of 44091318 at grid point 691

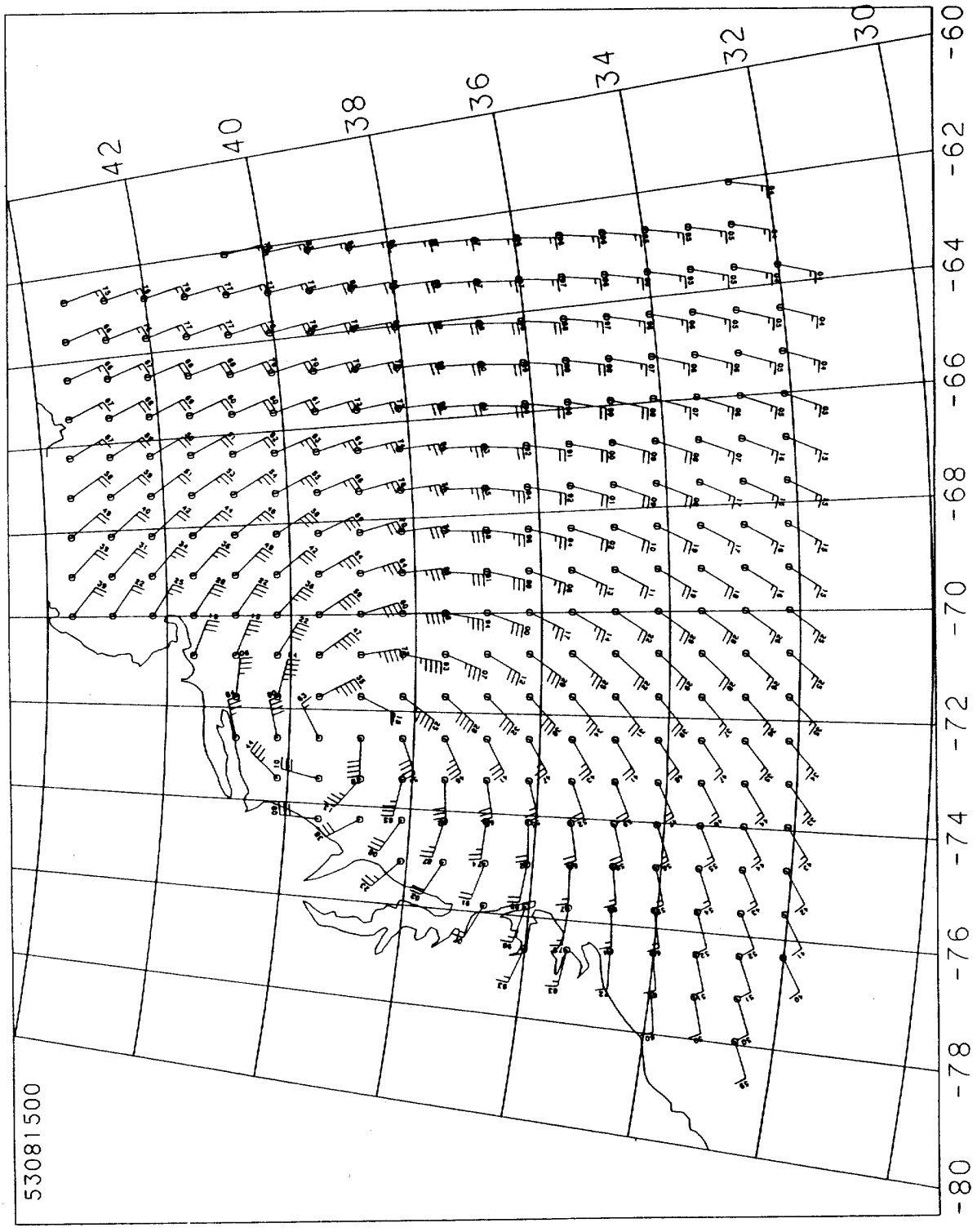
ddhh	WS	WD	U*	Hs	Tp	VMD
1319.	7.77	127.9	0.256	0.06	3.24	307.2
1320.	7.86	130.0	0.260	0.15	3.24	307.8
1321.	7.96	131.2	0.265	0.36	3.24	307.9
1322.	8.05	133.2	0.268	0.70	3.24	310.7
1323.	8.15	134.4	0.273	0.94	3.98	312.3
1400.	8.23	136.5	0.277	1.10	4.15	312.7
1401.	8.34	137.5	0.282	1.15	4.19	314.1
1402.	8.43	139.1	0.286	1.20	4.25	315.4
1403.	8.54	140.2	0.291	1.27	4.45	316.6
1404.	8.63	141.9	0.295	1.36	5.28	318.1
1405.	8.74	142.7	0.300	1.42	5.55	319.4
1406.	8.83	144.2	0.305	1.47	5.60	320.3
1407.	8.96	145.3	0.311	1.52	5.67	321.4
1408.	9.03	146.8	0.314	1.57	5.74	322.4
1409.	9.17	147.6	0.321	1.62	5.84	323.1
1410.	9.33	148.4	0.328	1.67	5.96	324.1
1411.	9.41	149.4	0.332	1.73	6.10	325.7
1412.	9.57	149.7	0.340	1.80	6.28	327.1
1413.	9.97	147.2	0.360	1.90	6.61	327.1
1414.	10.37	145.0	0.380	2.03	6.94	326.2
1415.	10.88	143.0	0.406	2.19	7.11	325.5
1416.	11.43	141.0	0.434	2.36	7.33	325.0
1417.	12.02	139.2	0.465	2.55	7.62	324.7
1418.	12.72	137.5	0.502	2.75	8.04	324.7
1419.	13.49	136.2	0.543	2.98	8.27	325.2
1420.	14.44	134.8	0.595	3.23	8.55	325.8
1421.	15.46	134.1	0.652	3.51	8.87	326.5
1422.	16.61	133.5	0.717	3.82	9.22	327.4
1423.	18.08	134.1	0.803	4.17	9.43	328.5
1500.	19.64	135.7	0.897	4.59	9.67	330.0
1501.	20.70	137.5	0.963	5.00	10.14	332.1
1502.	21.86	140.5	1.036	5.44	10.49	335.1
1503.	23.05	144.7	1.112	5.92	10.71	338.9
1504.	24.21	150.4	1.188	6.61	11.06	345.6
1505.	25.00	158.1	1.241	7.55	11.73	354.7
1506.	25.13	168.0	1.250	8.41	18.40	2.6
1507.	25.72	180.5	1.290	9.35	17.91	10.6
1508.	25.46	195.7	1.273	10.10	17.51	19.0
1509.	24.34	211.0	1.197	10.21	16.28	25.9
1510.	22.46	225.2	1.074	9.82	15.65	32.5
1511.	20.39	237.6	0.943	9.01	14.64	39.1
1512.	18.31	248.4	0.817	8.14	13.93	45.2
1513.	16.20	261.5	0.694	7.37	13.45	50.0
1514.	14.03	272.7	0.573	6.74	12.82	52.2
1515.	11.99	281.5	0.463	6.21	12.44	53.4
1516.	10.10	289.5	0.367	5.70	12.16	54.7
1517.	8.40	295.6	0.284	5.31	11.94	55.5
1518.	6.63	299.2	0.212	4.92	11.76	56.1

Storm of 44091318 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
1319.	7.36	128.7	0.239	0.05	3.24	308.0
1320.	7.45	130.8	0.243	0.13	3.24	308.4
1321.	7.53	132.2	0.246	0.32	3.24	308.5
1322.	7.61	134.3	0.249	0.63	3.24	310.7
1323.	7.68	135.6	0.253	0.84	3.24	313.5
1400.	7.75	137.7	0.255	0.99	4.09	314.2
1401.	7.83	138.9	0.259	1.05	4.14	315.0
1402.	7.89	140.7	0.261	1.09	4.17	316.6
1403.	7.97	141.7	0.265	1.13	4.21	317.8
1404.	8.03	143.5	0.268	1.18	4.31	319.3
1405.	8.11	144.5	0.271	1.23	4.53	320.6
1406.	8.16	146.1	0.273	1.28	4.89	322.0
1407.	8.25	147.4	0.277	1.32	5.43	322.9
1408.	8.29	149.1	0.279	1.35	5.52	323.9
1409.	8.39	150.1	0.284	1.38	5.57	324.9
1410.	8.49	151.0	0.288	1.42	5.62	325.7
1411.	8.55	152.3	0.291	1.46	5.67	326.8
1412.	8.70	152.8	0.298	1.51	5.73	328.4
1413.	9.04	150.4	0.315	1.59	5.84	329.4
1414.	9.38	147.9	0.331	1.69	6.00	329.0
1415.	9.80	145.1	0.352	1.81	6.25	328.0
1416.	10.22	142.7	0.372	1.94	6.76	326.7
1417.	10.67	140.4	0.395	2.08	7.00	325.4
1418.	11.18	138.3	0.421	2.25	7.18	324.3
1419.	11.73	136.4	0.450	2.43	7.41	323.5
1420.	12.41	134.1	0.486	2.62	7.74	323.0
1421.	13.22	132.2	0.528	2.83	8.10	323.0
1422.	14.12	130.5	0.577	3.06	8.33	323.2
1423.	15.19	128.7	0.637	3.32	8.61	323.7
1500.	16.48	127.4	0.710	3.62	8.94	324.5
1501.	17.32	126.6	0.759	3.89	9.24	325.1
1502.	18.39	126.6	0.822	4.21	9.43	325.7
1503.	19.60	127.2	0.895	4.59	9.65	327.0
1504.	21.06	128.6	0.985	5.03	10.12	329.1
1505.	22.65	131.5	1.087	5.57	10.55	332.5
1506.	24.45	136.5	1.204	6.35	10.84	338.4
1507.	27.40	142.0	1.406	7.54	11.56	346.3
1508.	30.49	153.6	1.628	9.02	19.27	355.2
1509.	32.22	175.2	1.758	10.97	19.09	7.4
1510.	31.53	203.7	1.705	12.21	17.50	19.3
1511.	28.94	225.8	1.516	11.61	16.60	27.8
1512.	25.34	242.0	1.264	10.19	16.05	34.4
1513.	20.92	260.6	0.976	8.17	16.23	41.8
1514.	17.27	275.5	0.755	6.93	15.32	45.3
1515.	14.53	287.5	0.600	6.07	14.86	48.0
1516.	12.05	296.9	0.466	5.33	14.14	49.8
1517.	10.15	303.4	0.369	4.80	13.63	51.2
1518.	8.32	308.7	0.281	4.35	13.34	51.6

STORM #4

Hurricane Barbara, August 1953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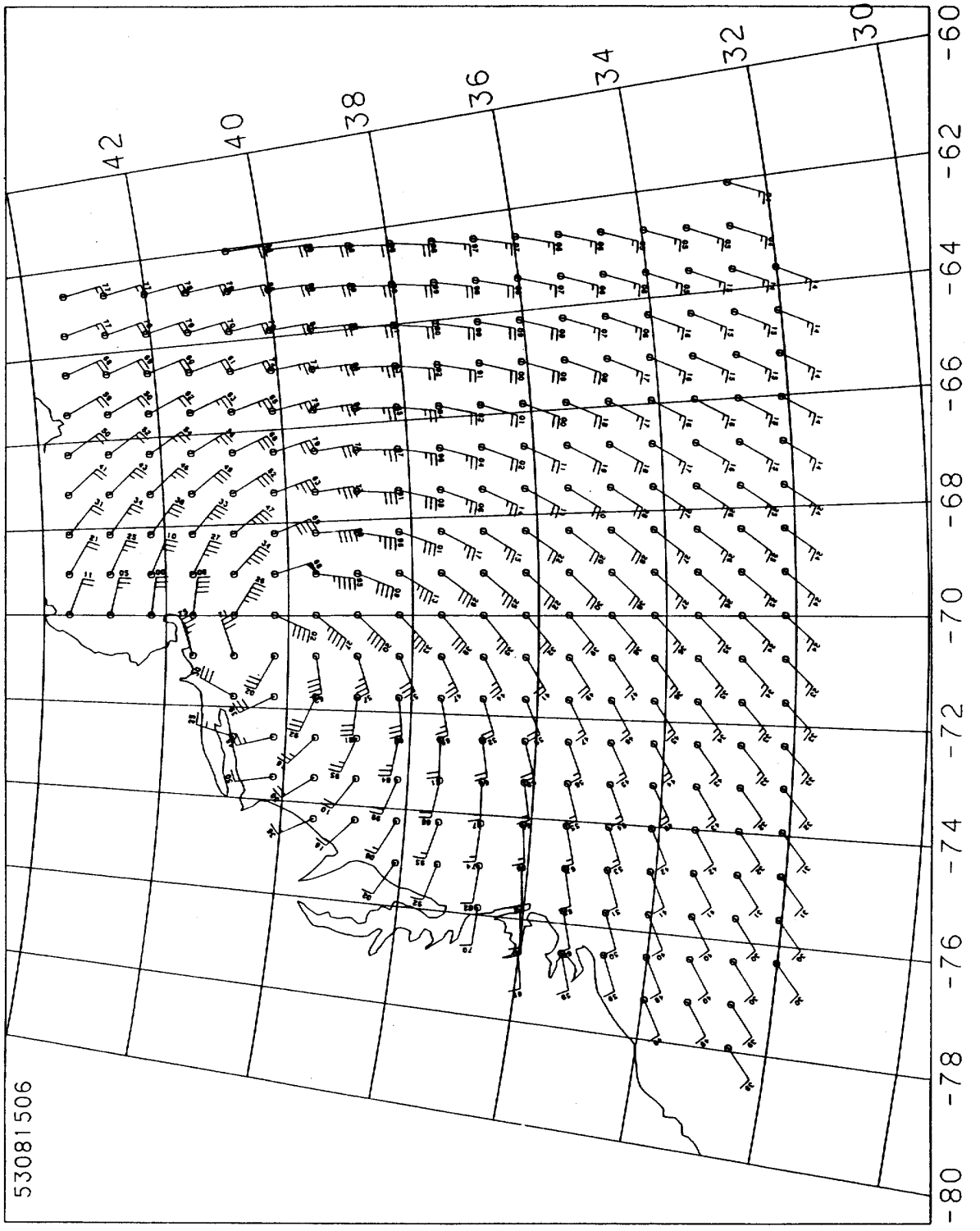

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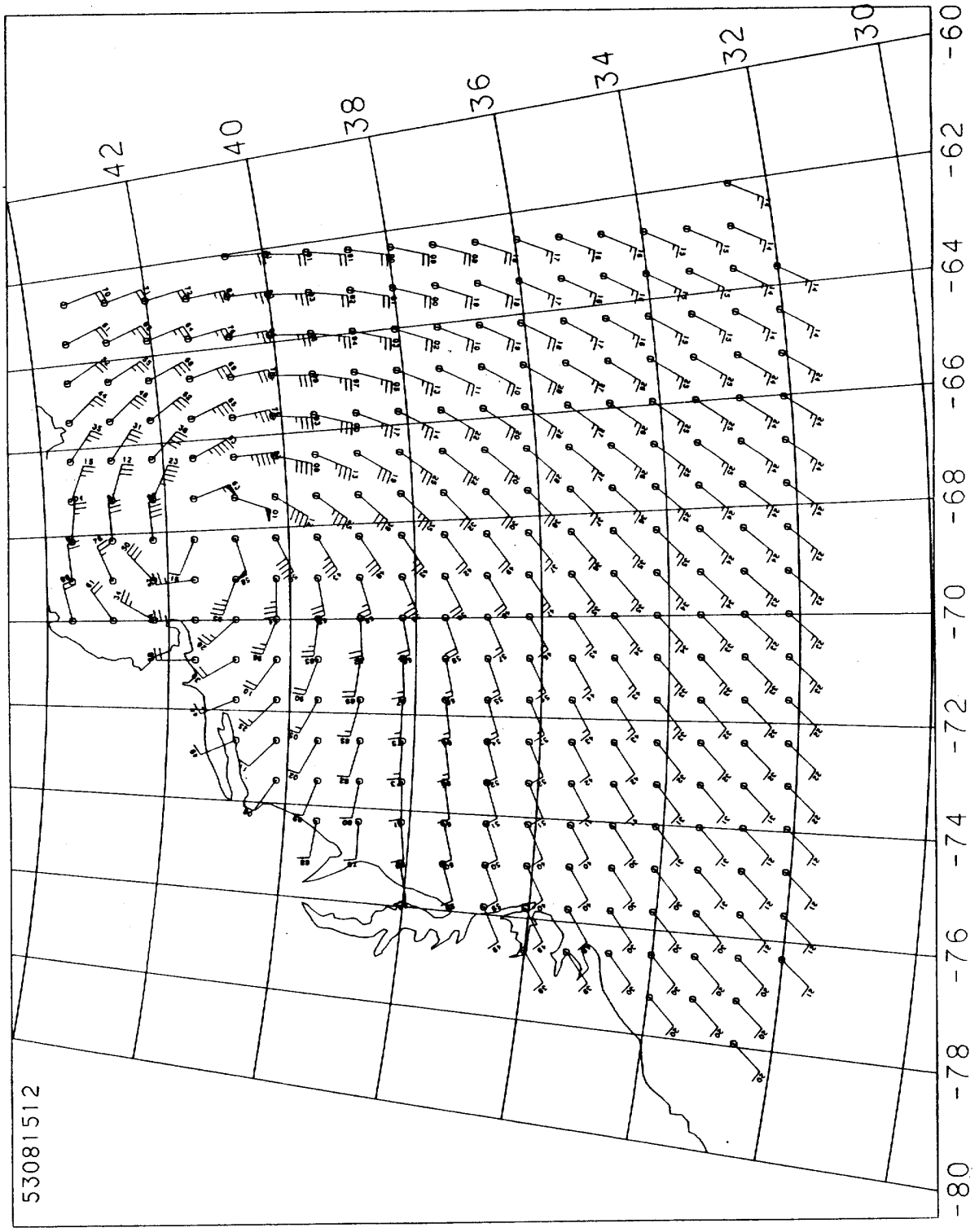

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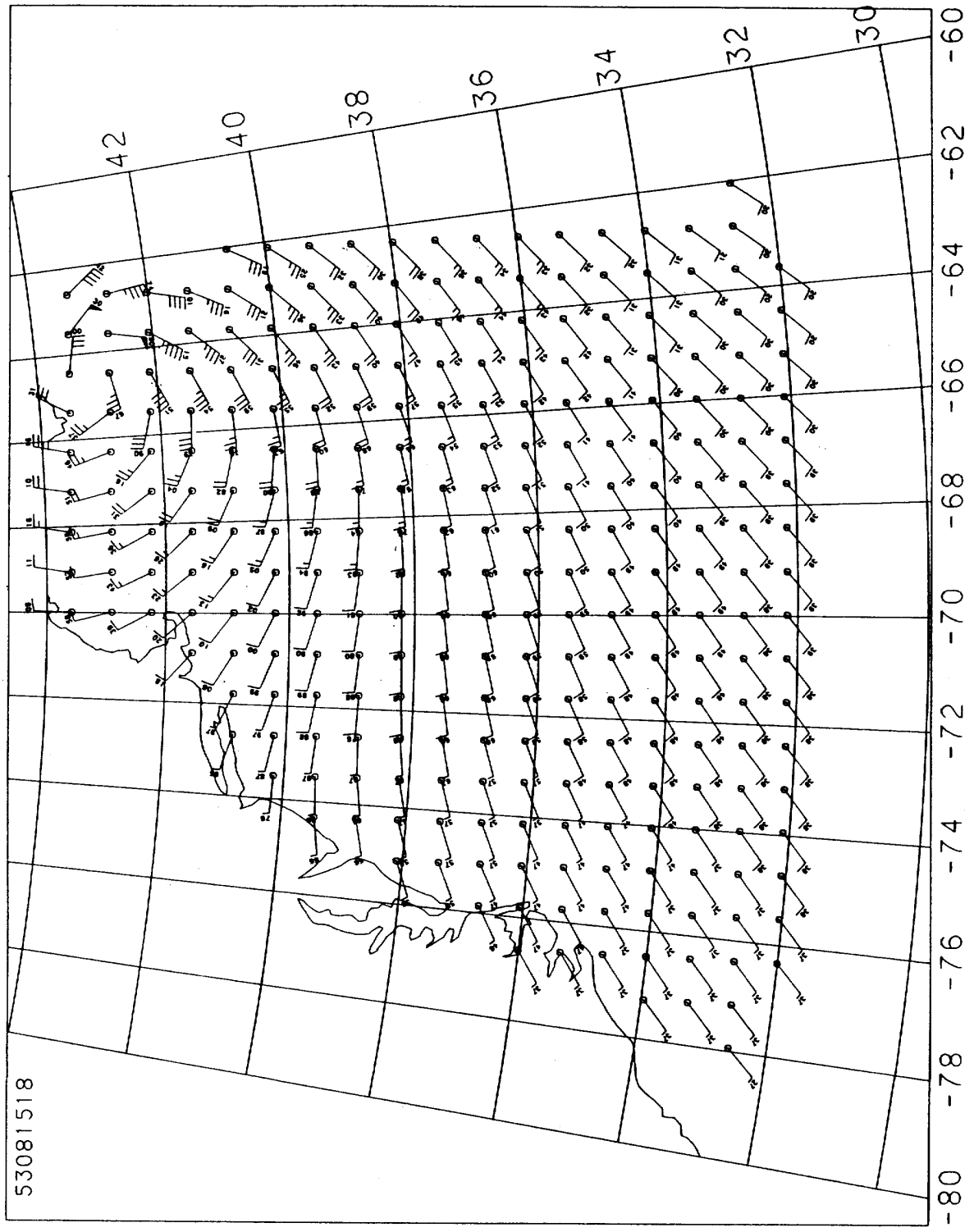

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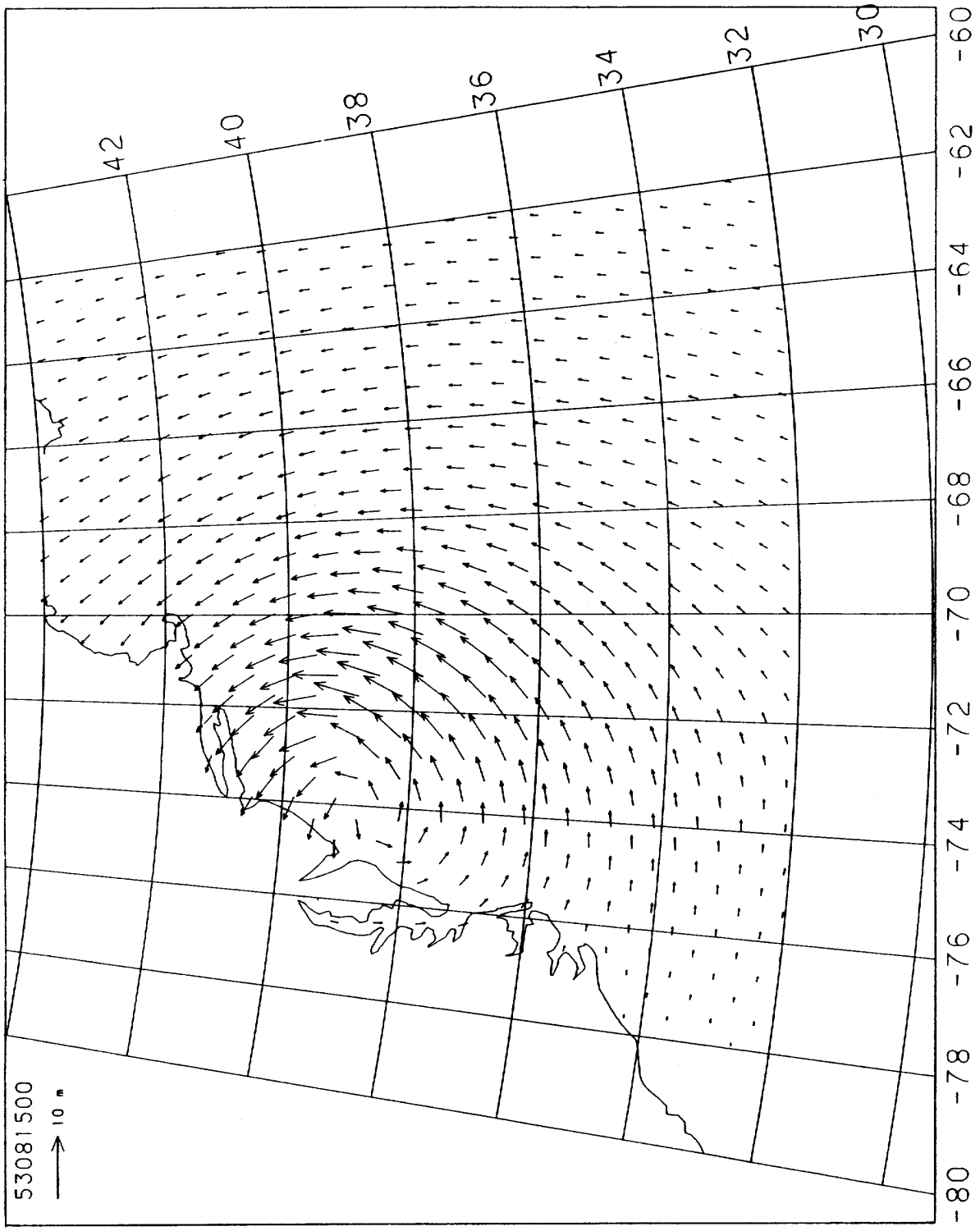

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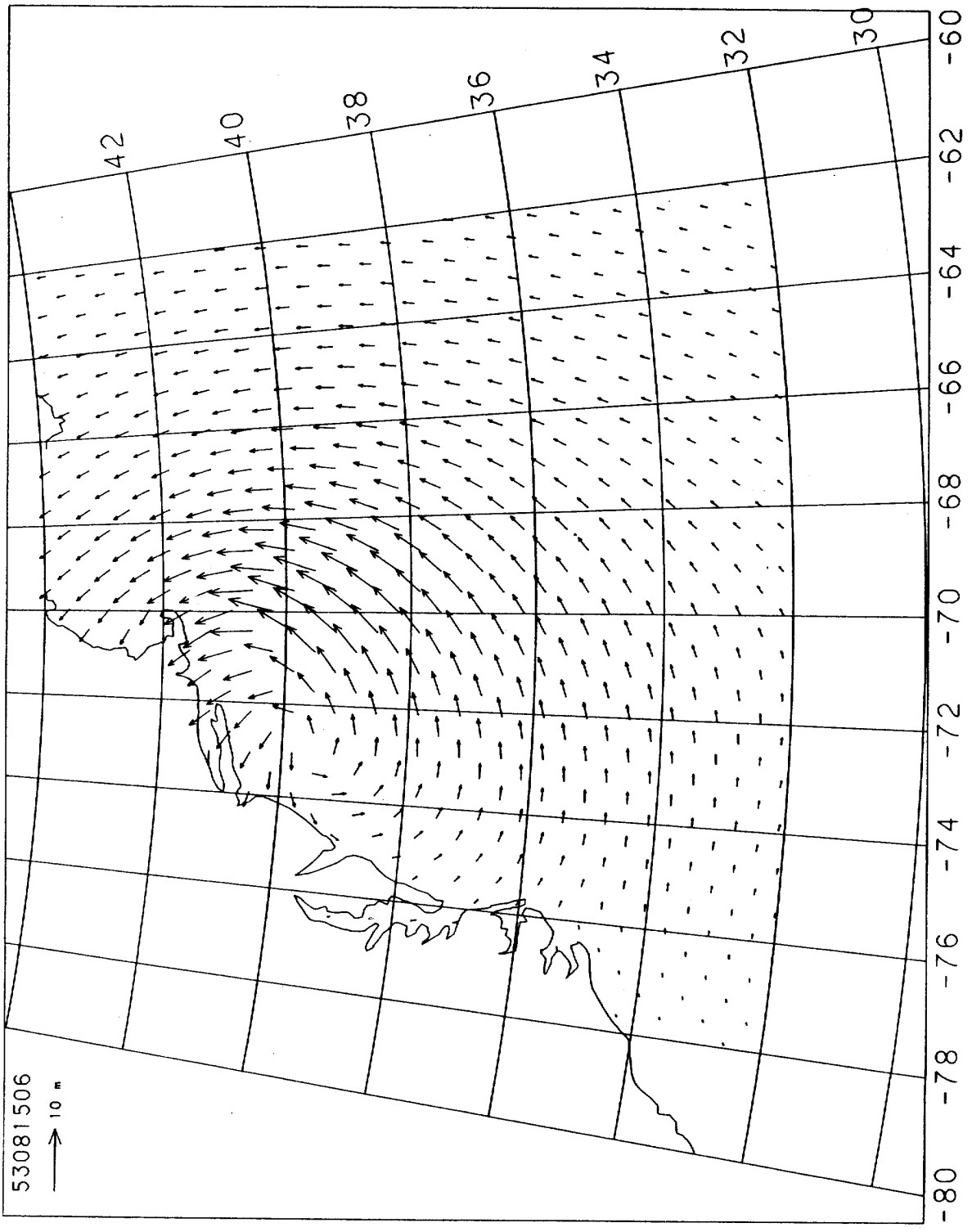

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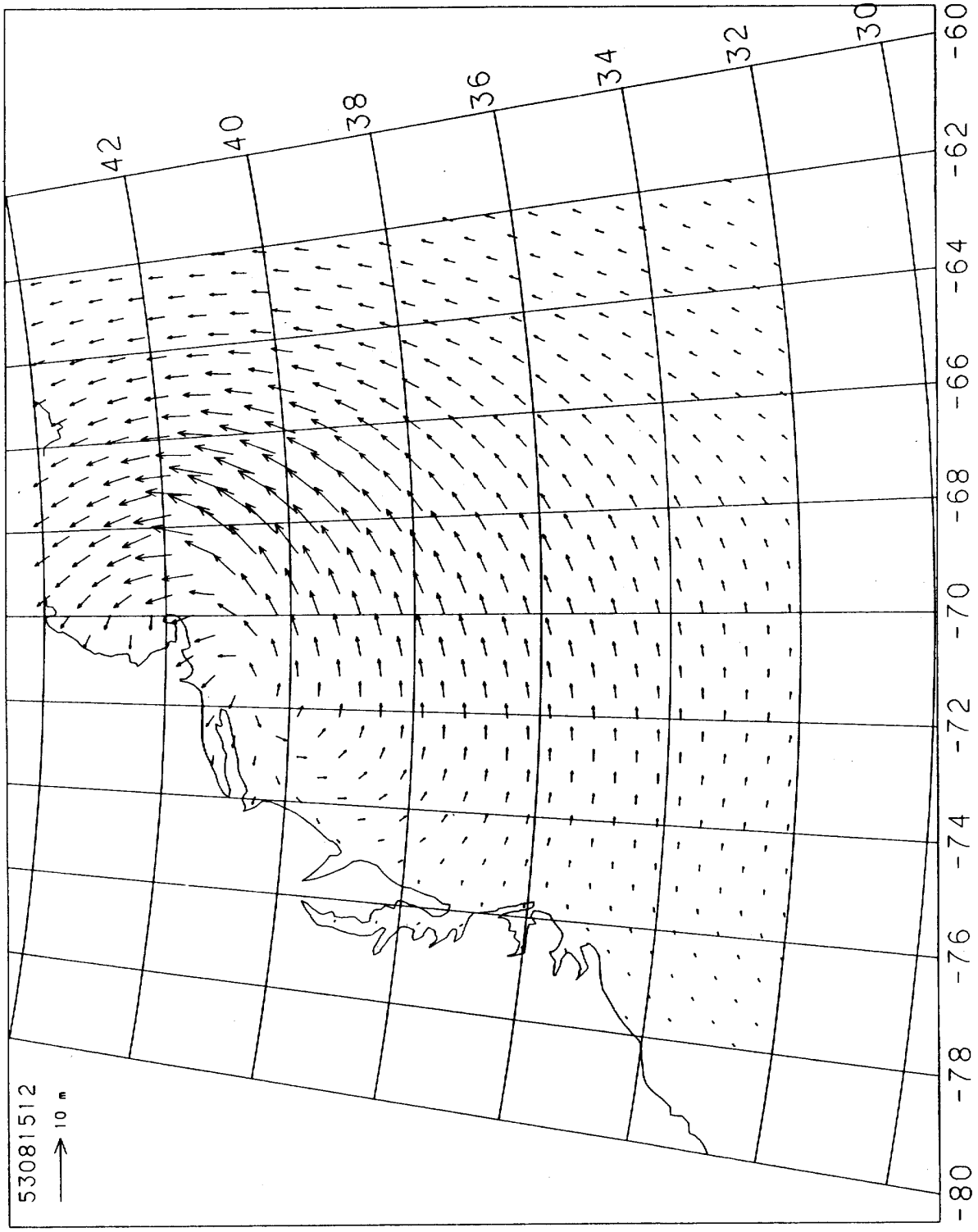

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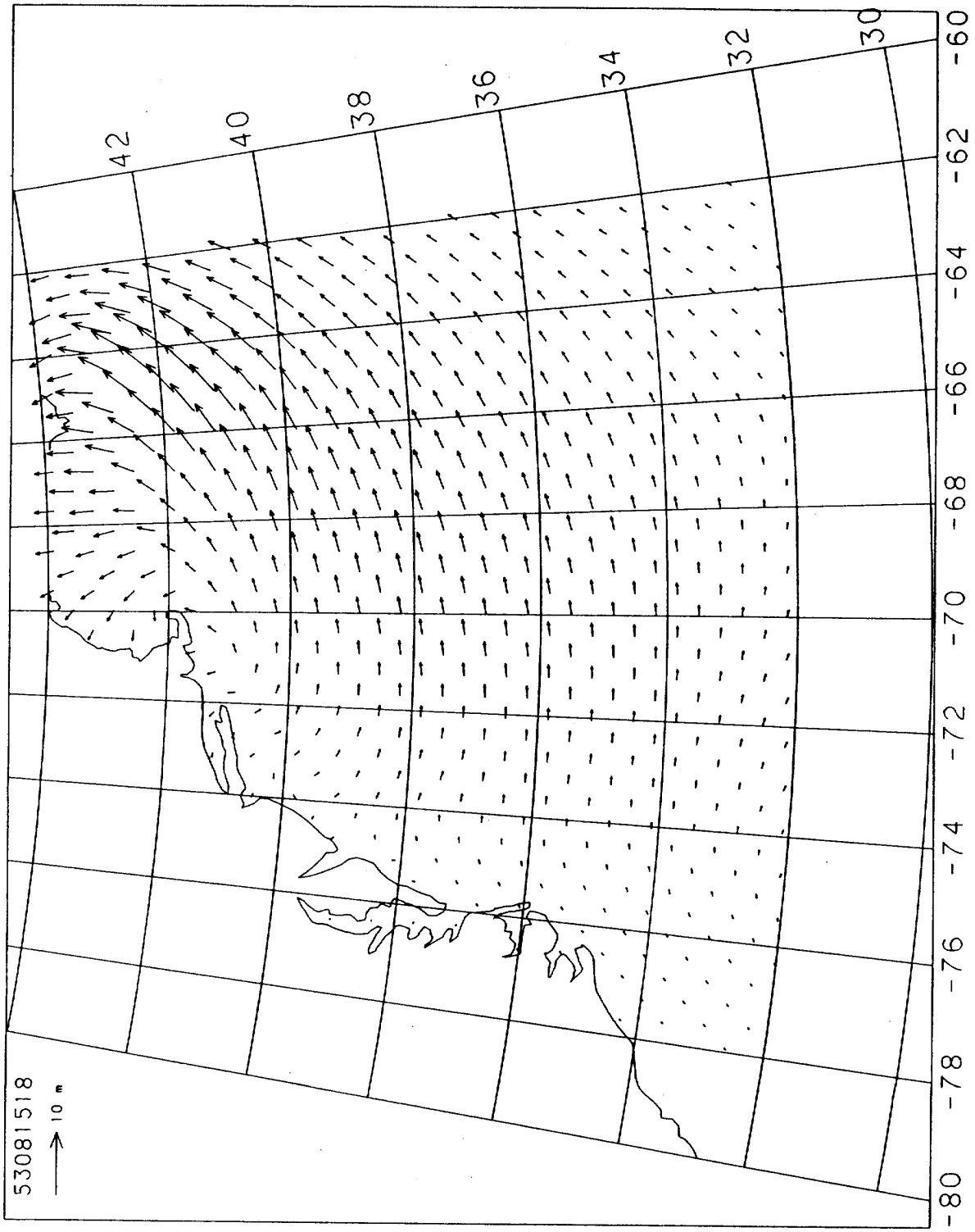

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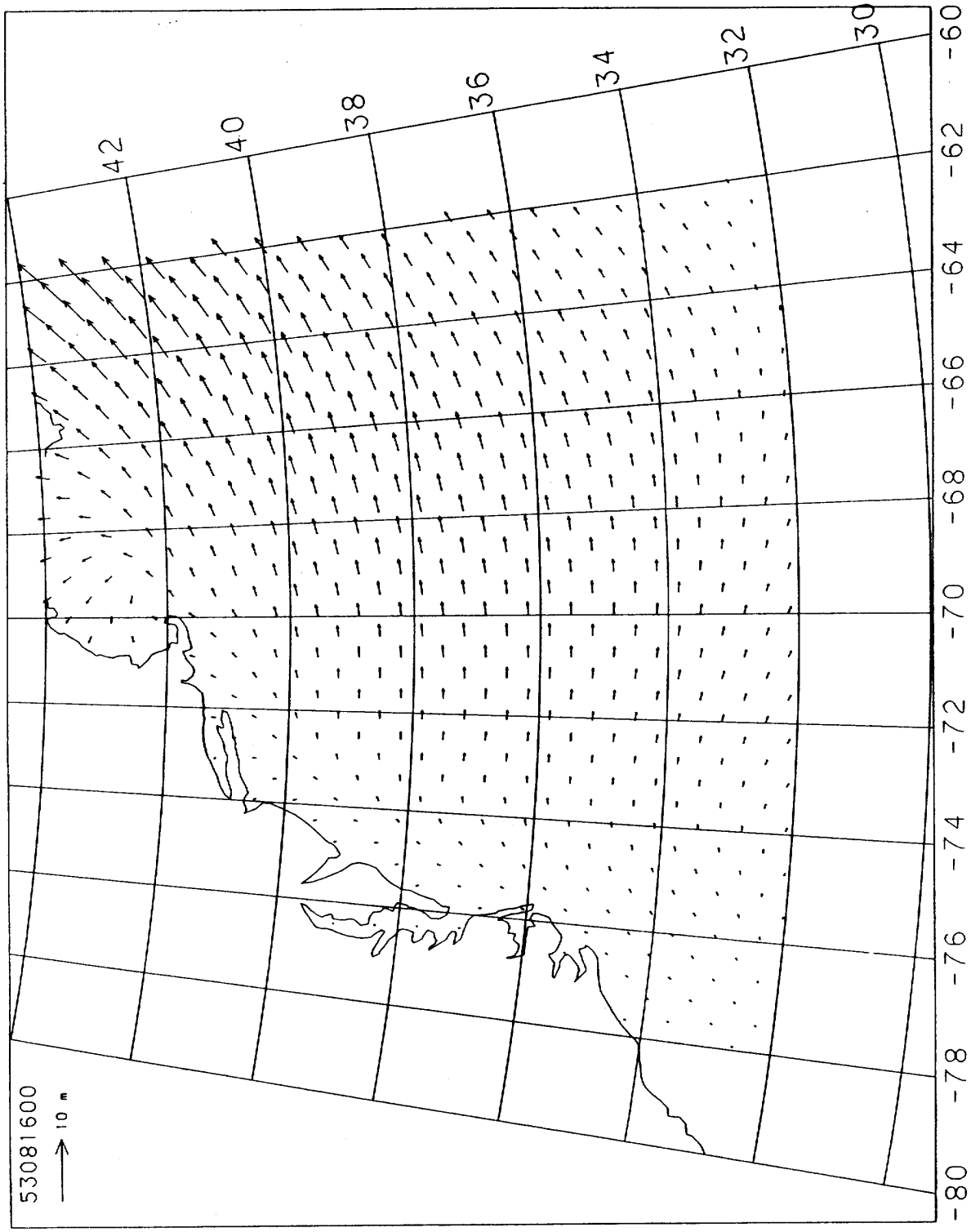


Storm of 53081406 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
1407.	7.83	151.8	0.259	0.06	3.92	331.8
1408.	7.92	152.4	0.263	0.15	3.24	332.3
1409.	8.02	152.9	0.267	0.37	3.24	332.9
1410.	8.12	153.5	0.271	0.73	3.24	333.1
1411.	8.22	154.0	0.276	0.96	4.02	333.8
1412.	8.33	154.5	0.281	1.11	4.16	334.6
1413.	8.47	154.6	0.287	1.18	4.21	335.0
1414.	8.61	154.8	0.294	1.25	4.30	335.8
1415.	8.77	155.0	0.302	1.34	4.72	336.9
1416.	8.94	155.1	0.310	1.42	5.54	337.3
1417.	9.11	155.2	0.318	1.50	5.64	337.4
1418.	9.30	155.3	0.327	1.57	5.70	337.2
1419.	9.55	155.1	0.339	1.65	5.79	337.1
1420.	9.81	154.8	0.352	1.74	5.96	337.3
1421.	10.09	154.8	0.366	1.84	6.24	338.0
1422.	10.40	154.5	0.382	1.95	6.68	338.5
1423.	10.74	154.1	0.399	2.06	6.92	338.8
1500.	11.09	154.1	0.417	2.19	7.05	339.5
1501.	11.43	154.0	0.434	2.32	7.21	340.1
1502.	11.83	153.7	0.455	2.45	7.36	340.5
1503.	12.25	153.5	0.477	2.60	7.62	341.4
1504.	12.70	153.7	0.501	2.76	8.03	342.6
1505.	13.24	153.8	0.529	2.94	8.18	344.0
1506.	13.84	153.9	0.562	3.14	8.33	346.0
1507.	14.70	153.5	0.609	3.40	8.48	348.3
1508.	15.74	153.3	0.668	3.71	8.65	351.3
1509.	16.99	153.7	0.739	4.08	8.91	355.1
1510.	18.51	155.2	0.829	4.54	9.29	359.5
1511.	20.41	158.9	0.945	5.10	9.65	4.4
1512.	22.53	165.9	1.079	5.82	12.07	10.3
1513.	25.34	187.6	1.265	6.89	12.27	20.5
1514.	24.59	220.7	1.214	7.55	12.78	33.4
1515.	20.97	245.9	0.980	7.12	13.05	44.2
1516.	16.91	264.9	0.735	6.24	12.59	51.7
1517.	14.09	279.6	0.576	5.38	12.25	56.9
1518.	12.01	288.3	0.464	4.88	11.92	59.3
1519.	10.24	293.9	0.374	4.38	11.36	61.9
1520.	8.77	297.9	0.302	3.93	10.90	63.9
1521.	7.58	300.0	0.248	3.59	10.63	65.3
1522.	6.63	301.2	0.212	3.28	10.38	67.1
1523.	5.84	301.4	0.187	3.06	9.86	68.0
1600.	5.16	302.6	0.167	2.86	9.61	69.1
1601.	4.82	301.4	0.158	2.70	9.46	69.5
1602.	4.53	301.0	0.150	2.56	9.32	69.8
1603.	4.30	301.4	0.144	2.43	9.13	70.1
1604.	4.13	302.1	0.139	2.32	8.72	70.4
1605.	3.98	302.9	0.135	2.19	8.52	71.8
1606.	3.82	304.1	0.130	2.09	8.39	72.6

Storm of 53081406 at grid point 617

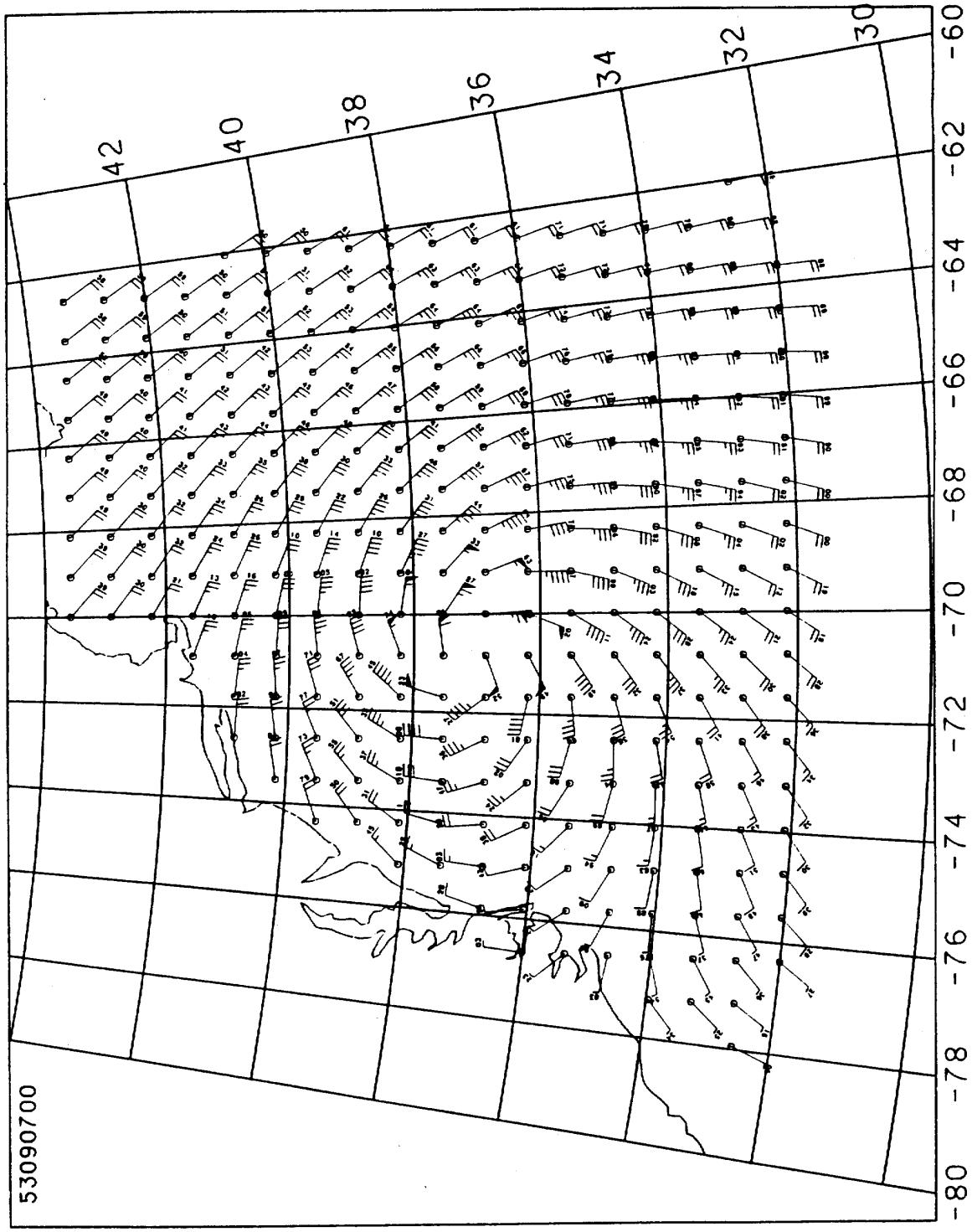
ddhh	WS	WD	U*	Hs	Tp	VMD
1407.	7.56	147.7	0.247	0.05	3.24	327.8
1408.	7.64	148.1	0.251	0.14	3.24	328.1
1409.	7.72	148.5	0.254	0.34	3.24	328.0
1410.	7.82	148.7	0.258	0.68	3.24	328.8
1411.	7.91	149.0	0.262	0.90	3.94	330.1
1412.	8.01	149.2	0.267	1.05	4.14	330.1
1413.	8.15	149.2	0.273	1.12	4.18	330.1
1414.	8.29	149.1	0.279	1.18	4.23	329.9
1415.	8.43	148.8	0.286	1.25	4.42	329.8
1416.	8.58	148.5	0.293	1.33	5.29	330.1
1417.	8.76	148.2	0.301	1.40	5.57	330.2
1418.	8.94	147.9	0.310	1.48	5.63	330.5
1419.	9.17	147.2	0.321	1.56	5.72	330.9
1420.	9.42	146.3	0.333	1.65	5.85	330.8
1421.	9.70	145.4	0.346	1.74	6.02	330.4
1422.	10.00	144.4	0.361	1.84	6.28	330.1
1423.	10.32	143.4	0.378	1.95	6.87	330.1
1500.	10.69	142.3	0.396	2.07	7.01	330.1
1501.	11.00	141.2	0.412	2.19	7.14	330.2
1502.	11.33	139.9	0.429	2.32	7.30	330.1
1503.	11.70	138.3	0.448	2.46	7.49	329.9
1504.	12.10	136.5	0.469	2.61	7.73	329.9
1505.	12.58	134.6	0.494	2.77	8.04	330.1
1506.	13.09	132.2	0.521	2.96	8.21	330.7
1507.	13.78	128.6	0.559	3.18	8.37	331.7
1508.	14.56	124.0	0.602	3.41	8.60	333.2
1509.	15.59	119.1	0.659	3.67	8.81	334.9
1510.	16.71	113.1	0.723	3.93	8.99	336.8
1511.	17.92	105.8	0.794	4.10	8.99	337.0
1512.	19.00	97.0	0.858	4.42	13.28	338.9
1513.	19.16	76.8	0.868	4.49	13.27	340.8
1514.	16.09	43.6	0.687	4.53	13.23	353.4
1515.	13.97	10.8	0.569	5.19	12.39	1.1
1516.	12.65	353.4	0.498	4.78	11.86	356.4
1517.	10.92	343.8	0.408	3.87	11.63	359.0
1518.	9.55	339.0	0.339	3.34	11.93	3.2
1519.	8.34	333.3	0.281	2.87	11.89	11.2
1520.	7.24	328.6	0.235	2.57	11.96	21.2
1521.	6.47	324.0	0.207	2.27	11.84	30.7
1522.	5.67	320.6	0.182	2.05	11.10	39.0
1523.	5.18	317.6	0.168	1.88	10.82	45.3
1600.	4.72	315.9	0.155	1.74	10.69	51.2
1601.	4.62	313.8	0.152	1.63	10.41	55.1
1602.	4.48	312.6	0.148	1.53	9.81	58.3
1603.	4.33	312.1	0.144	1.44	9.60	60.5
1604.	4.20	312.0	0.141	1.36	9.50	61.6
1605.	4.11	312.3	0.138	1.29	9.41	62.0
1606.	4.03	313.0	0.136	1.23	9.24	62.4

Storm of 53081406 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
1407.	7.75	144.6	0.255	0.06	3.87	324.8
1408.	7.83	145.0	0.259	0.15	3.24	325.1
1409.	7.93	145.2	0.263	0.36	3.24	325.1
1410.	8.04	145.3	0.268	0.71	3.24	326.0
1411.	8.15	145.4	0.273	0.95	4.00	327.1
1412.	8.26	145.5	0.278	1.11	4.15	326.3
1413.	8.41	145.2	0.285	1.18	4.20	326.4
1414.	8.56	144.9	0.292	1.24	4.32	326.6
1415.	8.72	144.4	0.299	1.34	4.87	326.5
1416.	8.89	143.9	0.307	1.42	5.56	326.3
1417.	9.08	143.4	0.317	1.49	5.64	326.2
1418.	9.29	142.8	0.326	1.57	5.73	326.5
1419.	9.54	141.8	0.339	1.67	5.88	326.8
1420.	9.83	140.6	0.353	1.77	6.08	326.6
1421.	10.14	139.3	0.368	1.87	6.43	326.3
1422.	10.48	138.0	0.386	1.99	6.92	326.2
1423.	10.86	136.7	0.405	2.12	7.06	325.8
1500.	11.26	135.2	0.426	2.26	7.22	325.4
1501.	11.60	133.6	0.443	2.40	7.40	325.3
1502.	11.95	131.6	0.461	2.55	7.66	325.1
1503.	12.34	129.3	0.482	2.71	8.02	325.2
1504.	12.78	126.8	0.505	2.88	8.17	325.5
1505.	13.27	123.8	0.531	3.06	8.34	326.2
1506.	13.78	120.3	0.559	3.24	8.58	327.1
1507.	14.46	115.2	0.596	3.43	8.75	328.4
1508.	15.17	108.9	0.635	3.60	8.92	329.7
1509.	15.96	101.6	0.680	3.75	8.89	330.2
1510.	16.62	93.0	0.718	3.88	13.21	331.0
1511.	16.88	82.5	0.733	4.00	13.25	333.0
1512.	16.36	70.0	0.703	4.07	13.11	335.8
1513.	14.78	44.8	0.614	3.92	13.19	342.4
1514.	13.09	22.3	0.521	4.50	12.19	351.8
1515.	11.28	6.0	0.426	4.03	11.71	350.6
1516.	9.84	355.6	0.354	3.54	11.11	345.0
1517.	8.53	348.8	0.291	3.19	10.83	341.0
1518.	7.40	343.5	0.241	2.87	10.69	339.1
1519.	6.46	335.5	0.206	2.50	11.64	342.2
1520.	5.67	328.3	0.182	2.19	11.63	347.9
1521.	5.15	322.6	0.167	1.91	10.87	352.9
1522.	4.66	318.3	0.153	1.69	10.72	358.9
1523.	4.38	315.5	0.146	1.54	10.60	13.2
1600.	4.07	314.0	0.137	1.42	10.37	24.9
1601.	4.03	312.7	0.136	1.31	9.76	36.6
1602.	3.96	312.0	0.134	1.22	9.58	47.8
1603.	3.87	311.9	0.132	1.15	9.49	54.8
1604.	3.80	312.0	0.130	1.09	9.40	59.1
1605.	3.73	312.6	0.128	1.03	9.20	61.4
1606.	3.69	313.5	0.126	0.98	8.66	62.3

STORM #5

Hurricane Carol, September 1953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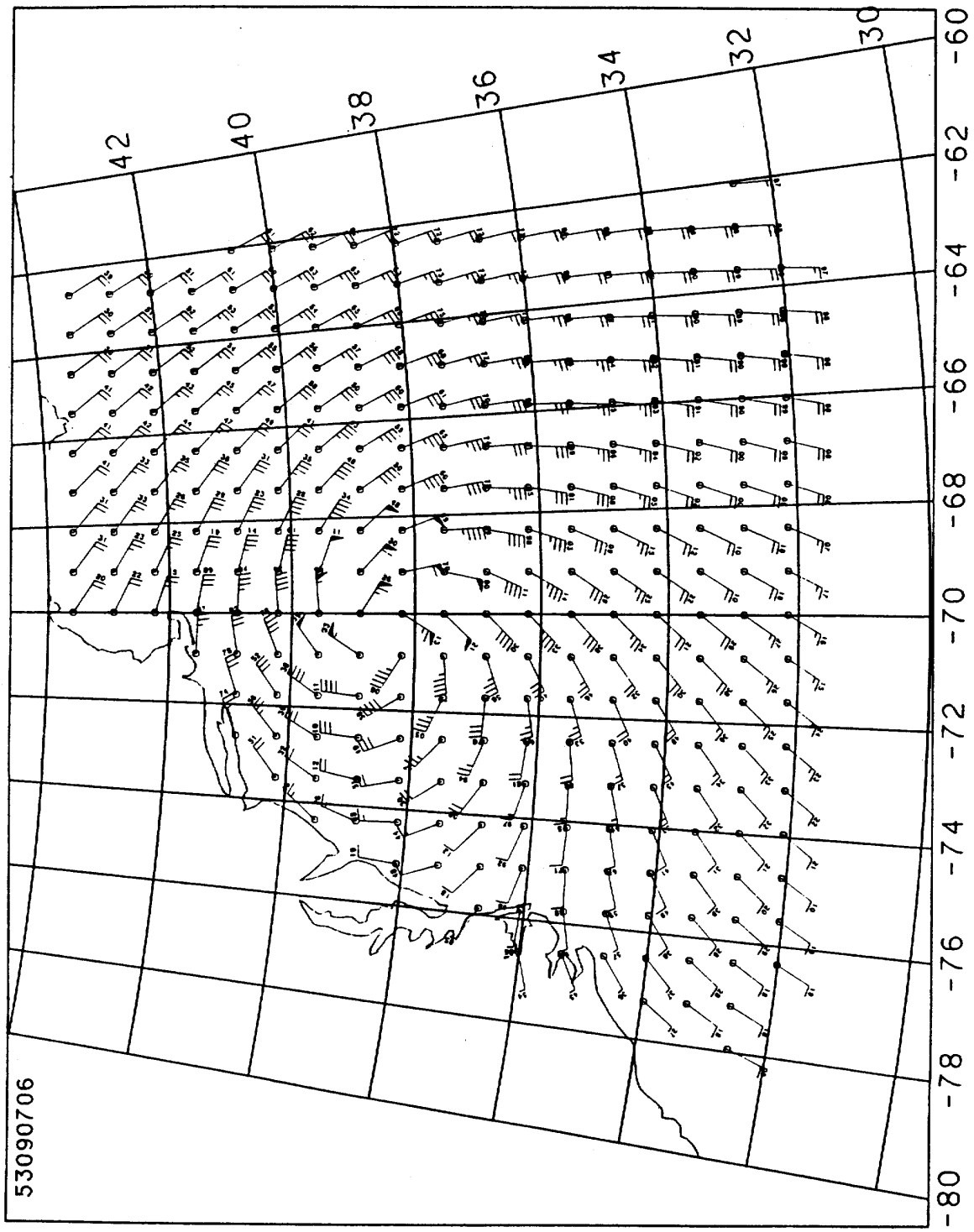

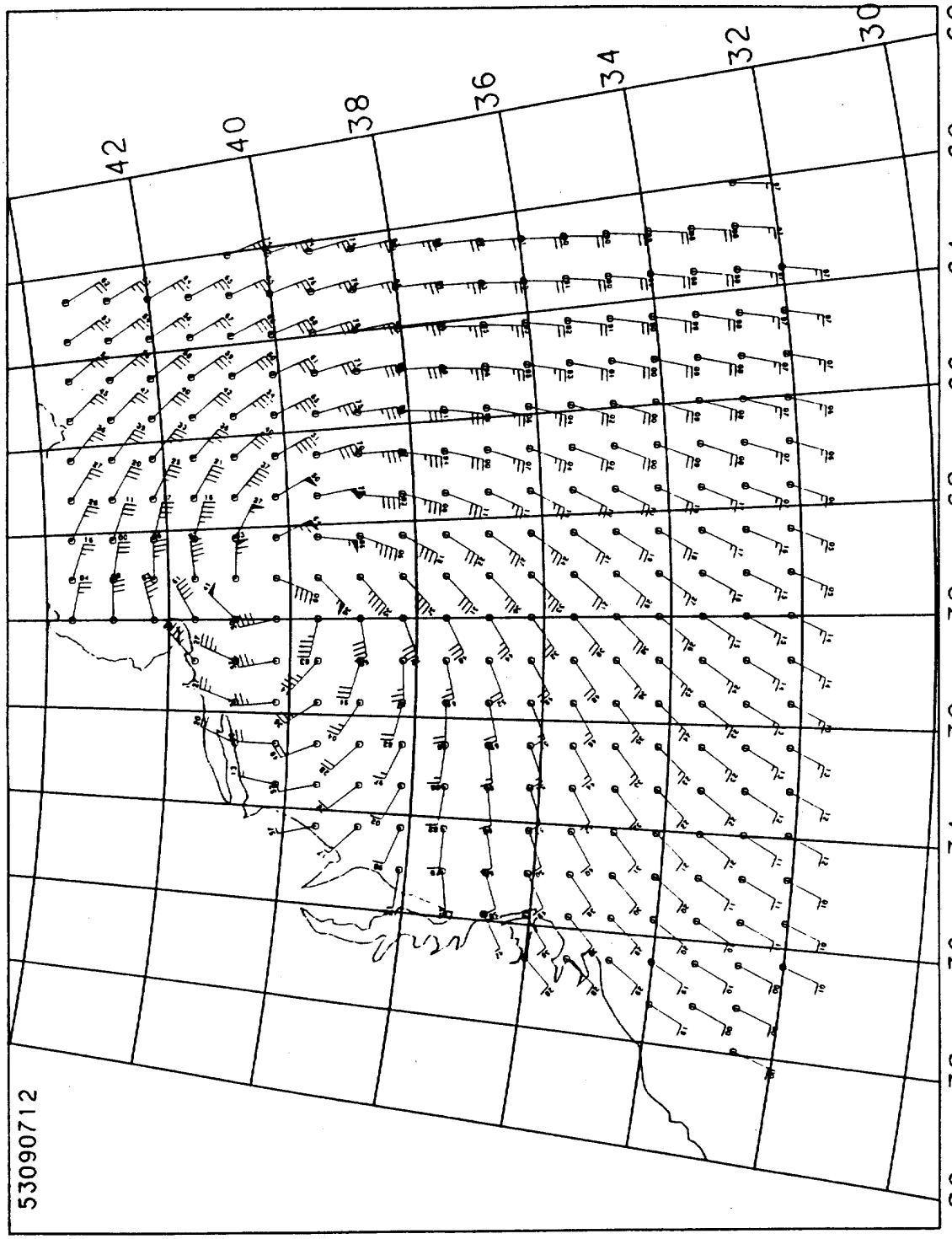
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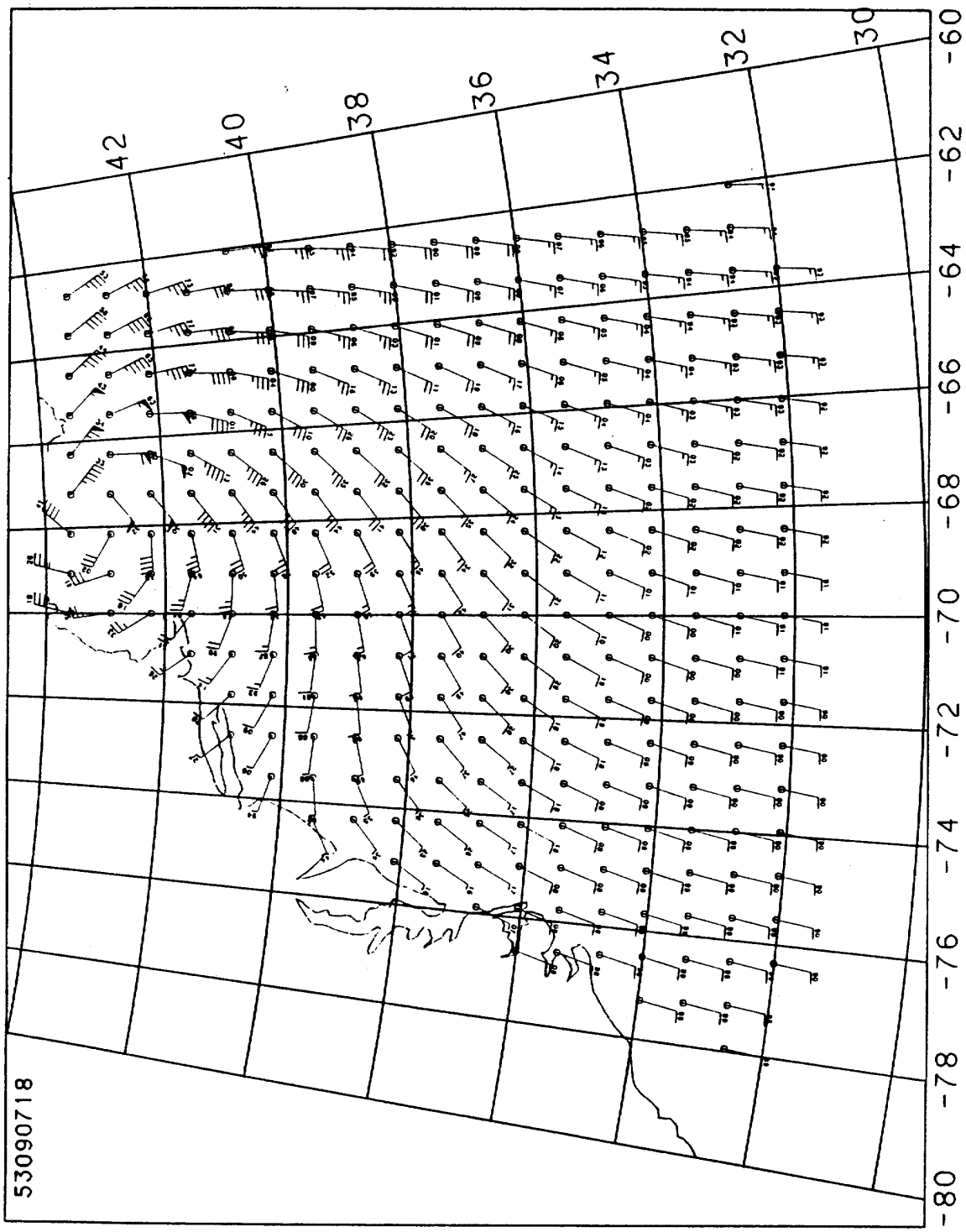

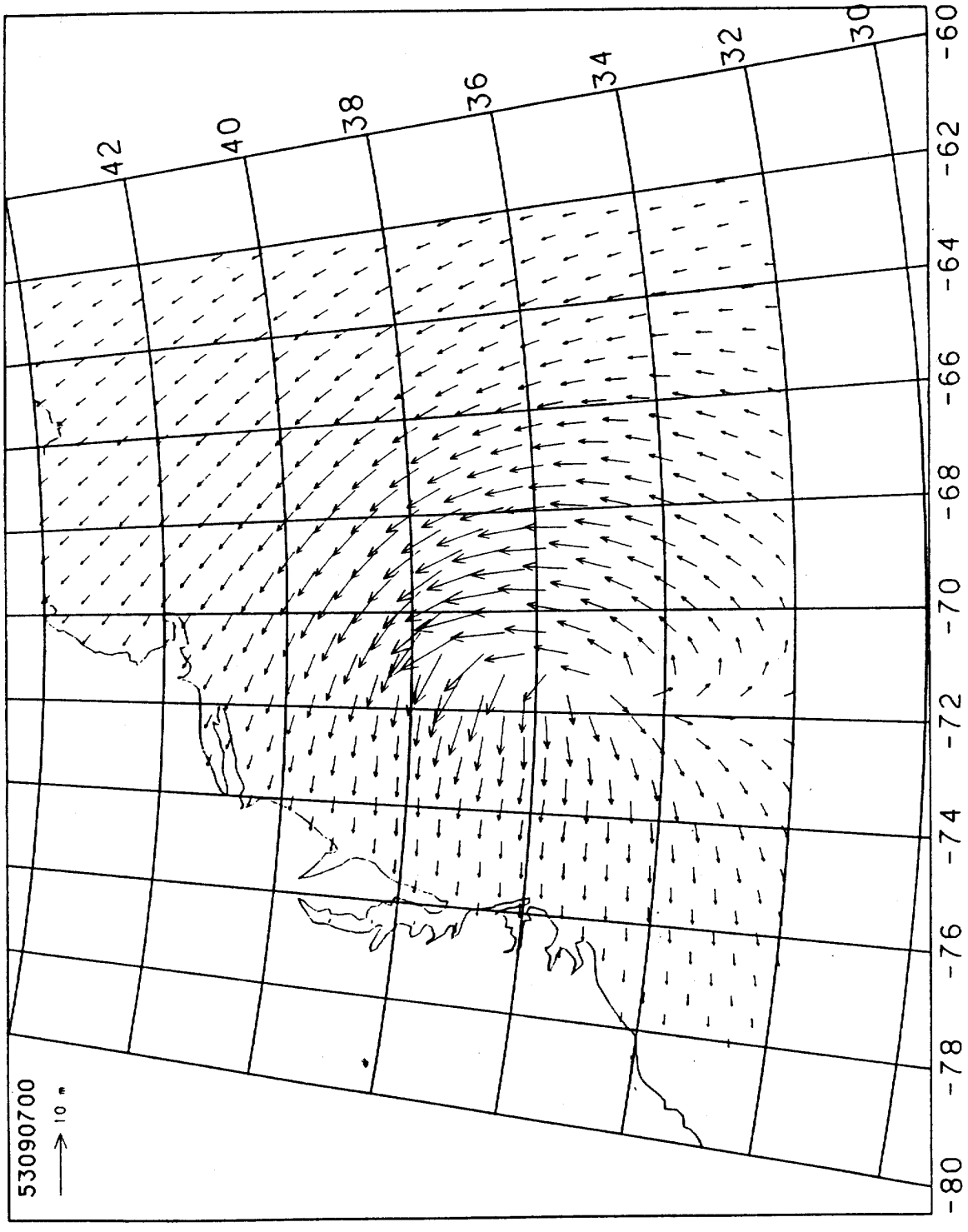
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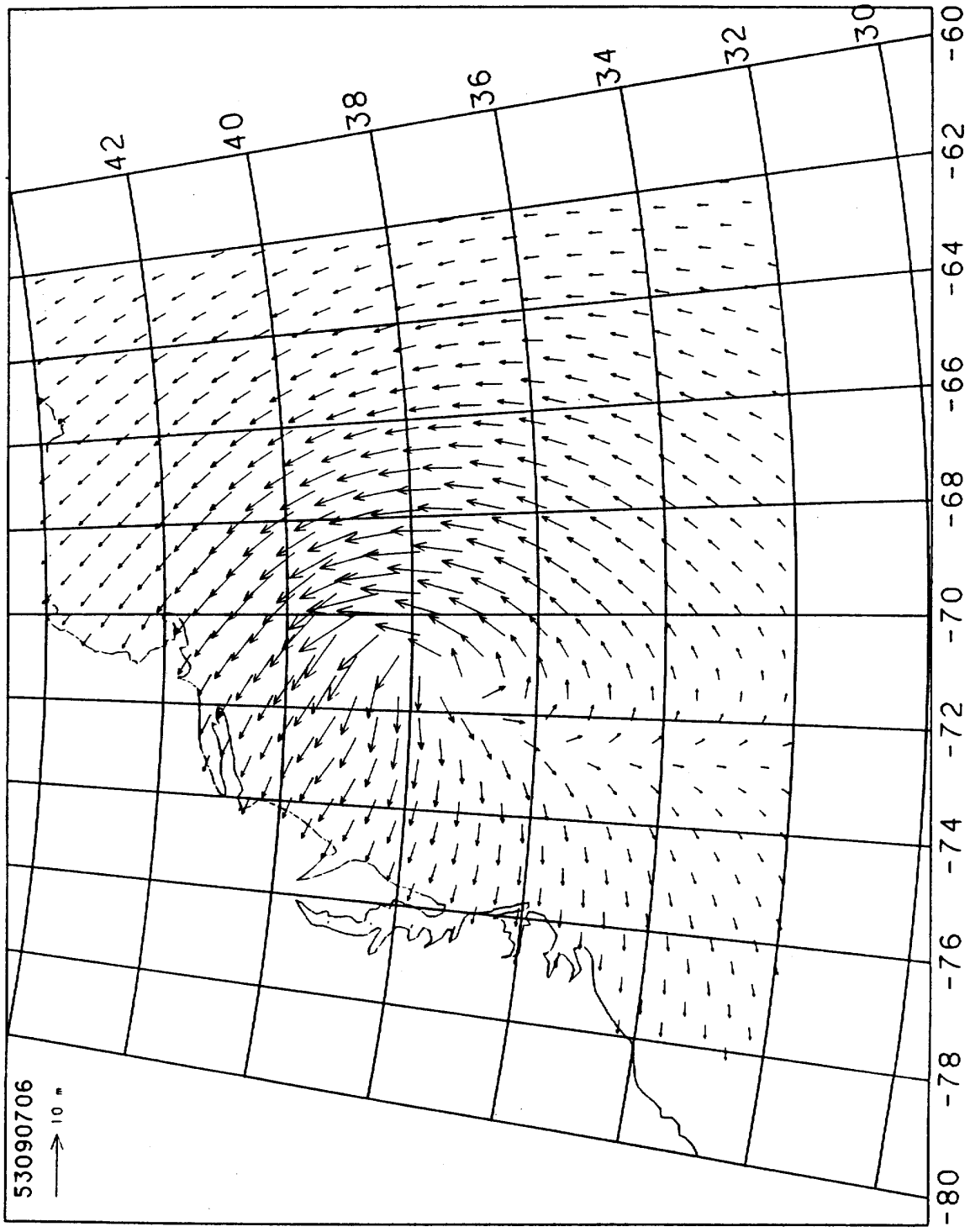
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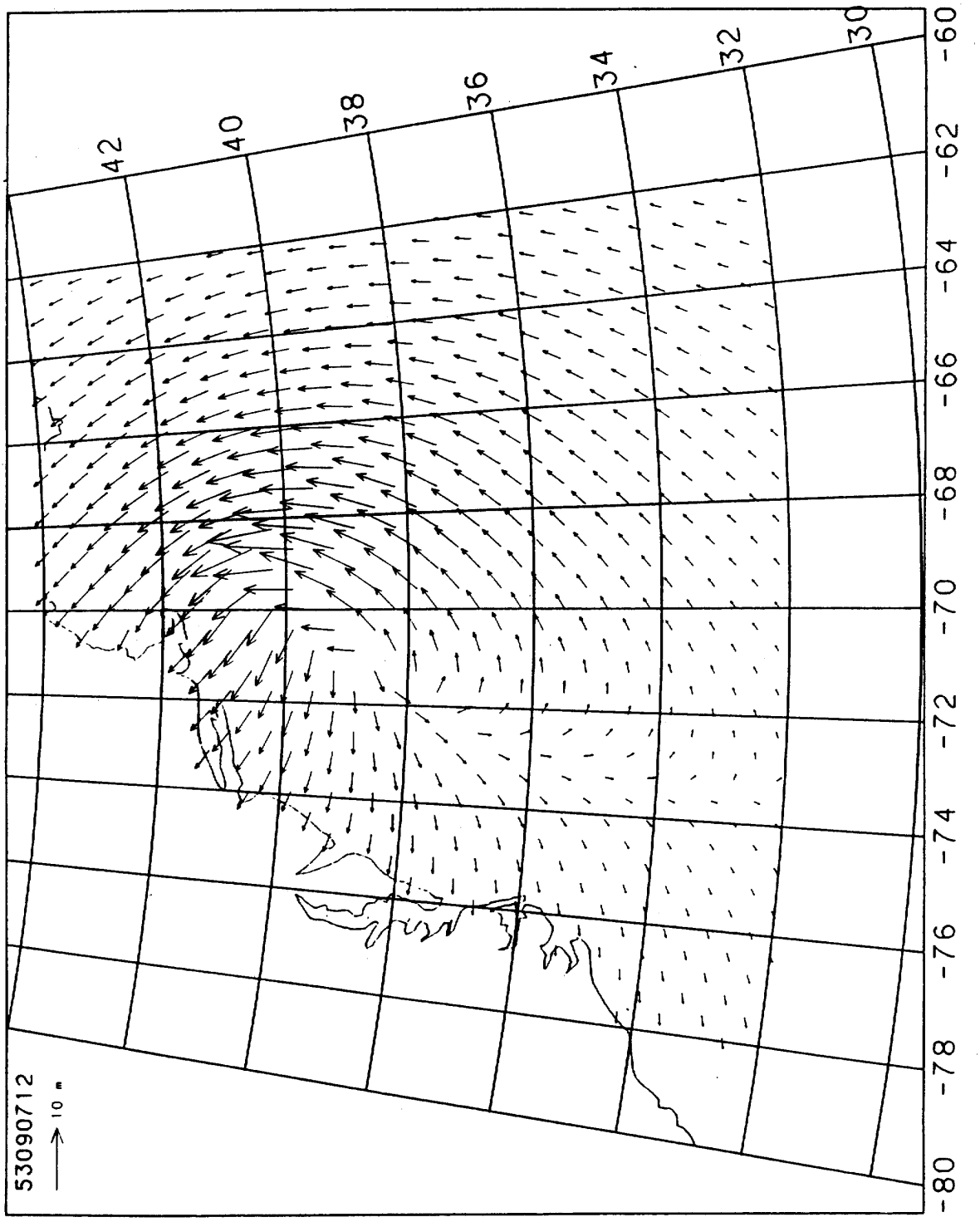
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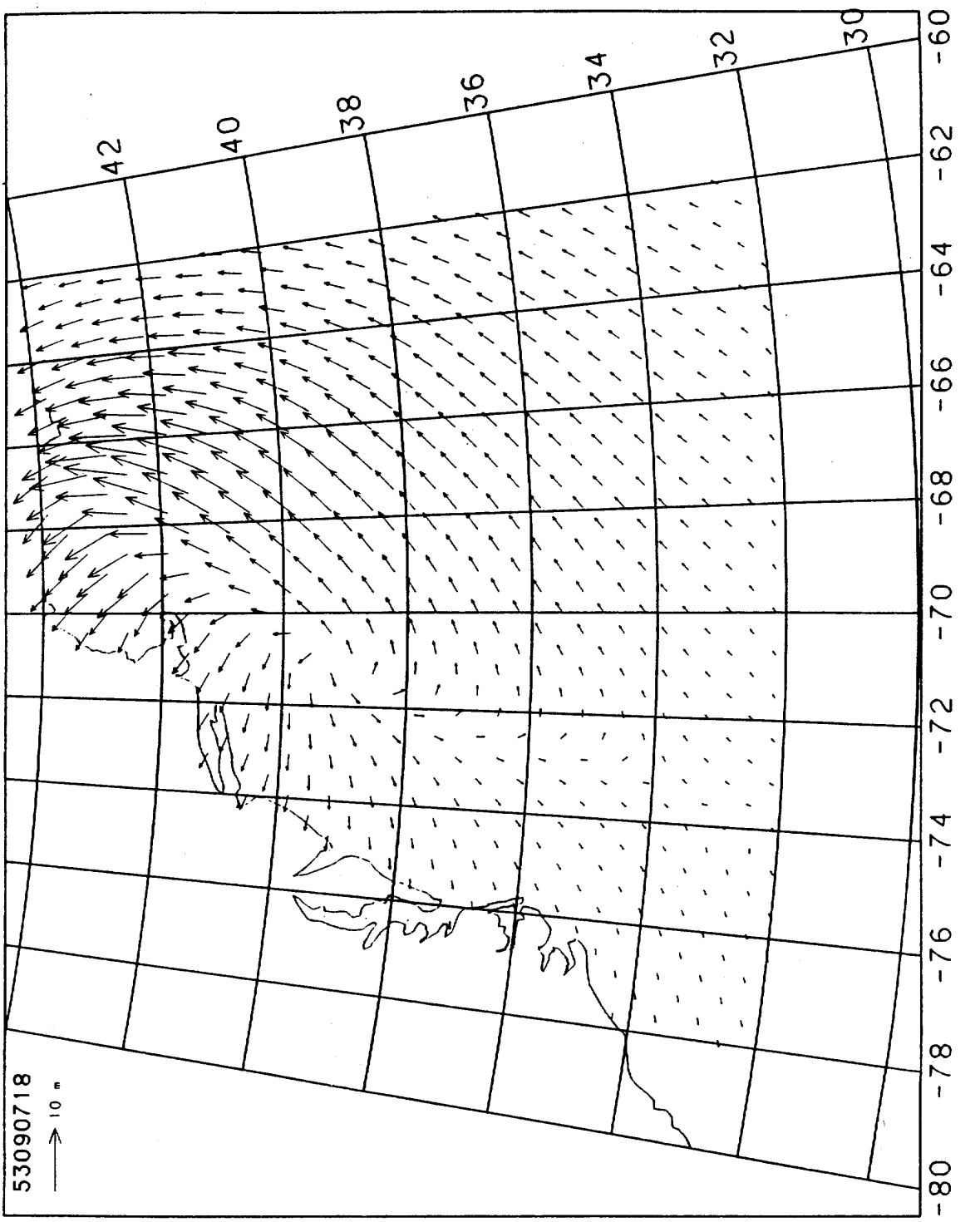
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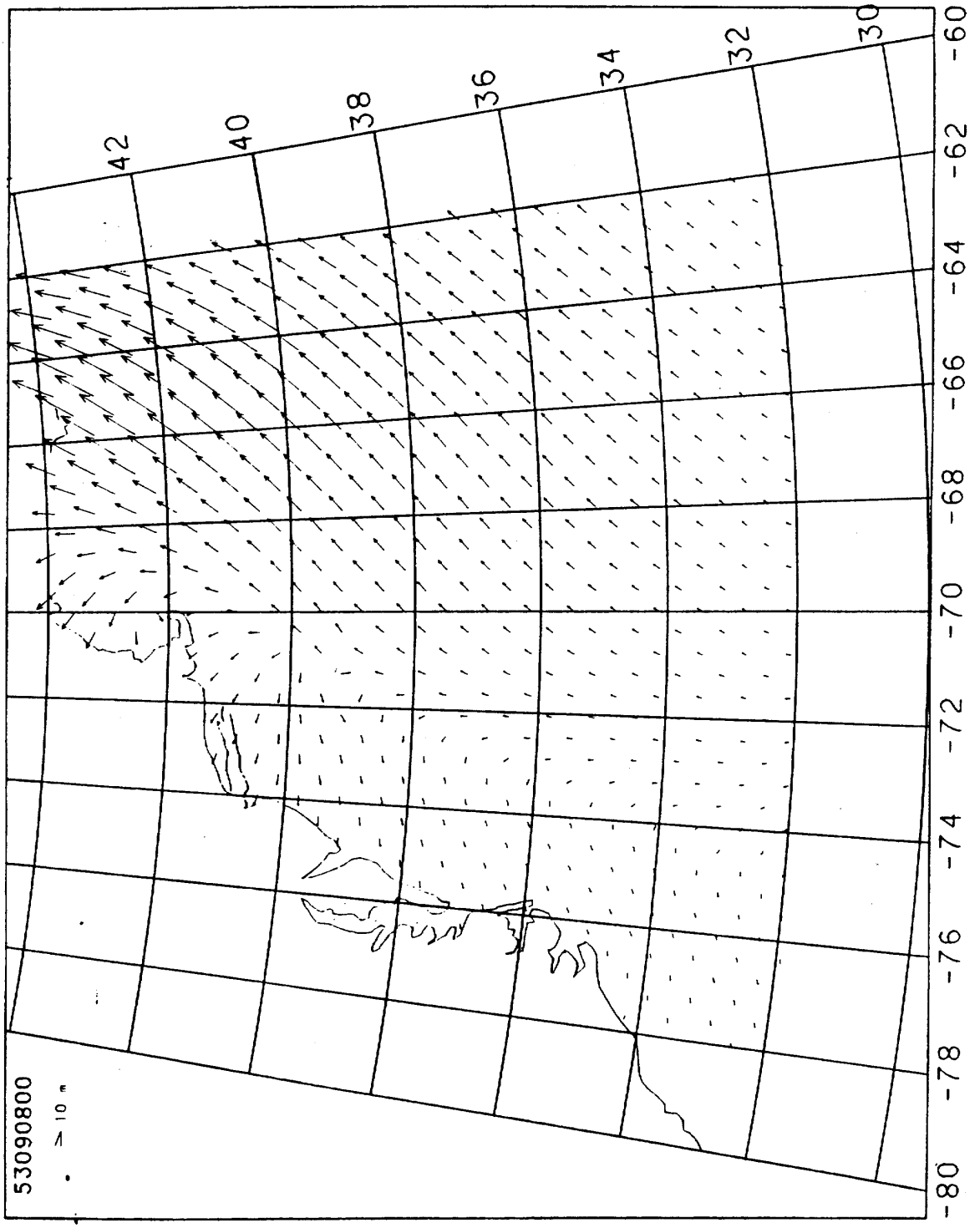
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Storm of 53090512 at grid point 383

ddhh	WS	WD	U*	Hs	Tp	VMD
513.	6.42	126.7	0.205	0.04	3.24	306.3
514.	6.50	127.4	0.208	0.11	3.24	306.5
515.	6.58	128.2	0.211	0.28	3.24	306.7
516.	6.68	128.8	0.214	0.56	3.24	307.2
517.	6.78	129.5	0.217	0.66	3.24	309.5
518.	6.88	130.1	0.221	0.73	3.24	309.4
519.	6.97	130.7	0.224	0.83	3.96	308.9
520.	7.06	131.4	0.228	0.90	4.06	308.9
521.	7.15	132.0	0.231	0.95	4.10	310.1
522.	7.24	132.5	0.235	0.97	4.12	311.1
523.	7.34	133.1	0.238	1.00	4.14	311.5
600.	7.43	133.7	0.242	1.03	4.18	312.1
601.	7.54	134.2	0.247	1.08	4.25	312.7
602.	7.66	134.7	0.251	1.13	4.35	313.0
603.	7.78	135.1	0.256	1.17	4.49	313.2
604.	7.90	135.5	0.262	1.21	4.70	313.6
605.	8.03	135.9	0.267	1.25	5.08	314.1
606.	8.15	136.3	0.273	1.29	5.48	314.6
607.	8.29	136.6	0.279	1.33	5.53	315.0
608.	8.42	137.0	0.285	1.37	5.59	315.7
609.	8.55	137.3	0.291	1.42	5.64	316.6
610.	8.69	137.6	0.298	1.48	5.71	317.5
611.	8.84	137.9	0.305	1.53	5.78	318.1
612.	8.97	138.2	0.311	1.58	5.85	318.5
613.	9.02	138.7	0.314	1.61	5.92	318.8
614.	9.07	139.4	0.316	1.63	5.97	319.1
615.	9.13	140.0	0.319	1.66	6.02	319.5
616.	9.21	140.6	0.323	1.69	6.10	320.1
617.	9.30	141.2	0.327	1.73	6.22	320.7
618.	9.38	141.9	0.331	1.76	6.34	321.3
619.	9.49	142.3	0.336	1.80	6.45	321.9
620.	9.62	142.6	0.343	1.85	6.55	322.6
621.	9.76	143.0	0.350	1.90	6.76	323.4
622.	9.94	143.3	0.358	1.97	6.88	324.0
623.	10.11	143.6	0.367	2.03	6.97	324.6
700.	10.33	144.0	0.378	2.11	7.07	325.2
701.	10.47	144.1	0.385	2.18	7.19	325.6
702.	10.63	144.2	0.393	2.25	7.29	326.0
703.	10.82	144.3	0.403	2.32	7.40	326.5
704.	11.01	144.3	0.412	2.40	7.53	326.8
705.	11.22	144.4	0.423	2.49	7.73	327.3
706.	11.45	144.5	0.435	2.59	8.02	327.8
707.	11.80	144.0	0.454	2.71	8.15	328.2
708.	12.20	143.7	0.474	2.86	8.30	328.7
709.	12.64	143.3	0.497	3.03	8.49	329.2
710.	13.11	142.8	0.523	3.22	8.74	329.8
711.	13.65	142.6	0.552	3.44	9.13	330.9
712.	14.23	142.4	0.583	3.68	9.33	332.3
713.	15.65	140.0	0.662	4.04	9.56	333.8

714.	17.38	138.8	0.762	4.50	9.88	335.7
715.	19.45	139.9	0.885	5.07	10.34	338.4
716.	21.54	144.8	1.015	5.77	10.84	343.1
717.	23.48	153.9	1.140	6.58	11.72	349.4
718.	24.47	167.6	1.206	7.47	12.46	357.8
719.	23.65	184.7	1.151	8.11	13.02	7.5
720.	21.47	201.3	1.011	8.09	14.64	15.5
721.	19.12	215.1	0.866	7.70	14.45	22.9
722.	16.70	226.3	0.722	7.22	13.41	28.9
723.	14.37	234.9	0.591	6.72	13.06	33.7
800.	12.30	241.4	0.480	6.33	12.34	36.4

Storm of 53090512 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
513.	6.80	124.3	0.218	0.04	3.24	304.0
514.	6.89	125.0	0.221	0.12	3.24	304.1
515.	6.98	125.6	0.224	0.29	3.24	304.1
516.	7.07	126.3	0.228	0.58	3.24	305.7
517.	7.16	126.8	0.231	0.73	3.24	306.5
518.	7.26	127.4	0.235	0.85	3.93	305.6
519.	7.35	127.9	0.239	0.95	4.09	305.9
520.	7.44	128.5	0.242	0.99	4.13	307.0
521.	7.53	129.0	0.246	1.03	4.15	307.9
522.	7.62	129.5	0.250	1.06	4.18	308.2
523.	7.72	130.0	0.254	1.11	4.25	308.5
600.	7.81	130.5	0.258	1.16	4.40	309.3
601.	7.93	130.9	0.263	1.21	4.60	309.8
602.	8.06	131.3	0.269	1.25	4.93	310.1
603.	8.19	131.6	0.275	1.29	5.48	310.5
604.	8.32	131.9	0.280	1.34	5.56	310.8
605.	8.45	132.2	0.287	1.39	5.62	311.0
606.	8.59	132.4	0.293	1.43	5.68	311.2
607.	8.76	132.6	0.301	1.48	5.75	311.6
608.	8.91	132.7	0.308	1.54	5.83	312.0
609.	9.05	132.9	0.315	1.60	5.91	312.8
610.	9.18	133.1	0.321	1.65	6.00	313.7
611.	9.35	133.1	0.329	1.71	6.10	314.1
612.	9.52	133.1	0.338	1.78	6.23	314.2
613.	9.62	133.3	0.343	1.83	6.43	314.2
614.	9.73	133.7	0.348	1.88	6.67	314.2
615.	9.84	134.1	0.354	1.93	6.89	314.3
616.	9.99	134.5	0.361	1.99	6.97	314.6
617.	10.12	134.9	0.368	2.04	7.05	315.0
618.	10.29	135.4	0.376	2.11	7.11	315.4
619.	10.50	135.3	0.387	2.18	7.18	315.8
620.	10.76	135.2	0.400	2.27	7.27	316.2
621.	11.03	135.2	0.414	2.38	7.41	316.6
622.	11.35	135.2	0.430	2.50	7.67	317.2
623.	11.68	135.3	0.447	2.64	8.02	317.7
700.	12.06	135.5	0.467	2.79	8.20	318.3
701.	12.35	135.3	0.482	2.93	8.43	318.9
702.	12.65	135.1	0.498	3.07	8.71	319.4
703.	13.01	135.3	0.518	3.23	9.10	320.2
704.	13.39	135.3	0.538	3.40	9.24	320.9
705.	13.80	135.3	0.560	3.59	9.35	321.9
706.	14.24	135.5	0.584	3.79	9.48	323.1
707.	14.90	135.0	0.620	4.04	9.67	324.6
708.	15.65	134.6	0.662	4.35	9.98	326.6
709.	16.50	134.5	0.711	4.72	10.36	329.2
710.	17.45	134.6	0.766	5.11	10.65	331.8
711.	18.51	135.5	0.829	5.53	10.97	334.6
712.	19.65	137.3	0.898	6.01	11.50	338.1
713.	22.32	140.7	1.065	6.67	12.56	341.8

714.	24.80	150.6	1.228	7.50	12.65	347.4
715.	26.31	167.1	1.330	8.42	13.18	356.6
716.	25.29	187.1	1.261	8.81	13.68	6.7
717.	22.92	204.4	1.103	8.59	13.75	15.5
718.	20.12	217.4	0.927	8.01	13.46	23.7
719.	17.36	228.1	0.761	7.24	13.19	31.3
720.	14.84	236.7	0.617	6.78	12.21	34.5
721.	12.59	242.5	0.495	6.15	11.90	38.6
722.	10.63	247.7	0.393	5.64	11.28	40.1
723.	8.93	252.4	0.309	5.18	10.88	41.0
800.	6.96	255.1	0.224	4.76	10.61	42.0

Storm of 53090512 at grid point 500

ddhh	WS	WD	U*	Hs	Tp	VMD
513.	6.37	126.1	0.203	0.04	3.24	305.6
514.	6.45	126.8	0.206	0.11	3.24	305.8
515.	6.53	127.5	0.209	0.28	3.24	306.0
516.	6.62	128.2	0.212	0.55	3.24	306.4
517.	6.72	128.8	0.215	0.65	3.24	308.7
518.	6.82	129.4	0.219	0.71	3.24	308.8
519.	6.91	130.0	0.222	0.81	3.92	308.4
520.	7.00	130.6	0.225	0.88	4.05	308.2
521.	7.09	131.2	0.229	0.93	4.09	309.2
522.	7.18	131.7	0.232	0.96	4.11	310.2
523.	7.27	132.3	0.236	0.99	4.13	310.6
600.	7.37	132.8	0.239	1.02	4.17	311.1
601.	7.48	133.3	0.244	1.06	4.23	311.6
602.	7.60	133.7	0.249	1.11	4.33	311.9
603.	7.72	134.1	0.254	1.15	4.46	312.2
604.	7.84	134.5	0.259	1.19	4.64	312.5
605.	7.97	134.8	0.265	1.23	4.96	312.9
606.	8.09	135.2	0.270	1.27	5.47	313.3
607.	8.23	135.5	0.277	1.32	5.53	313.5
608.	8.37	135.7	0.283	1.36	5.59	313.8
609.	8.51	136.0	0.289	1.41	5.65	314.5
610.	8.65	136.2	0.296	1.47	5.71	315.5
611.	8.81	136.3	0.304	1.53	5.79	316.2
612.	8.96	136.4	0.311	1.58	5.87	316.7
613.	9.02	136.9	0.314	1.62	5.95	317.0
614.	9.09	137.3	0.317	1.64	6.00	317.3
615.	9.16	137.8	0.320	1.67	6.05	317.6
616.	9.27	138.0	0.326	1.71	6.14	318.0
617.	9.36	138.4	0.330	1.75	6.26	318.3
618.	9.46	138.8	0.335	1.79	6.43	318.7
619.	9.57	138.9	0.340	1.83	6.64	319.0
620.	9.74	138.9	0.348	1.89	6.87	319.3
621.	9.90	139.0	0.357	1.95	6.93	319.6
622.	10.12	138.9	0.367	2.03	7.01	319.9
623.	10.33	138.8	0.378	2.11	7.11	320.2
700.	10.60	138.7	0.392	2.22	7.24	320.5
701.	10.78	138.5	0.401	2.30	7.39	320.7
702.	10.98	138.2	0.411	2.39	7.54	320.8
703.	11.22	137.9	0.423	2.49	7.70	321.0
704.	11.46	137.6	0.436	2.59	7.87	321.2
705.	11.74	137.2	0.450	2.71	8.06	321.3
706.	12.06	136.9	0.467	2.84	8.22	321.6
707.	12.48	135.7	0.489	3.00	8.44	321.7
708.	12.99	134.6	0.516	3.20	8.80	322.0
709.	13.59	133.6	0.548	3.44	9.20	322.8
710.	14.22	132.4	0.583	3.70	9.42	323.8
711.	14.95	131.2	0.623	4.00	9.64	325.3
712.	15.81	130.1	0.672	4.34	9.95	327.3
713.	17.92	125.9	0.794	4.83	10.33	329.1

714.	20.76	124.0	0.966	5.47	10.66	331.0
715.	24.46	125.9	1.205	6.34	11.14	333.4
716.	28.63	136.0	1.493	7.58	12.17	338.5
717.	31.05	161.2	1.670	9.11	13.48	350.3
718.	29.40	194.5	1.549	10.03	14.56	5.5
719.	25.73	216.1	1.291	9.72	15.00	17.7
720.	21.34	228.6	1.002	8.64	14.66	25.9
721.	17.92	238.6	0.794	7.48	13.98	31.0
722.	15.13	247.3	0.633	6.60	13.38	34.4
723.	12.74	254.0	0.503	5.94	12.66	35.5
800.	10.62	259.6	0.393	5.47	12.13	35.3

Storm of 53090512 at grid point 617

ddhh	WS	WD	U*	Hs	Tp	VMD
513.	6.30	125.5	0.201	0.04	3.24	305.1
514.	6.38	126.3	0.204	0.10	3.24	305.3
515.	6.46	127.0	0.206	0.27	3.24	305.4
516.	6.55	127.6	0.209	0.55	3.24	305.8
517.	6.64	128.2	0.213	0.64	3.24	307.9
518.	6.74	128.8	0.216	0.69	3.24	308.2
519.	6.83	129.4	0.219	0.79	3.24	308.0
520.	6.92	129.9	0.222	0.86	4.03	307.7
521.	7.01	130.5	0.226	0.91	4.08	308.3
522.	7.10	131.1	0.229	0.94	4.10	309.4
523.	7.19	131.6	0.232	0.97	4.12	309.9
600.	7.28	132.1	0.236	0.99	4.15	310.3
601.	7.39	132.6	0.240	1.04	4.20	310.8
602.	7.50	133.0	0.245	1.08	4.28	311.2
603.	7.62	133.4	0.250	1.13	4.39	311.3
604.	7.75	133.7	0.255	1.17	4.53	311.5
605.	7.87	134.0	0.261	1.21	4.75	311.9
606.	8.00	134.2	0.266	1.25	5.20	312.2
607.	8.14	134.4	0.273	1.29	5.50	312.4
608.	8.28	134.6	0.279	1.34	5.57	312.6
609.	8.43	134.8	0.285	1.39	5.63	313.0
610.	8.57	134.9	0.292	1.44	5.69	313.7
611.	8.74	134.8	0.300	1.50	5.76	314.4
612.	8.91	134.8	0.308	1.56	5.84	315.0
613.	8.97	135.0	0.311	1.60	5.92	315.3
614.	9.03	135.2	0.314	1.63	5.97	315.5
615.	9.10	135.5	0.317	1.66	6.03	315.7
616.	9.21	135.5	0.323	1.70	6.10	315.7
617.	9.32	135.6	0.328	1.74	6.22	315.7
618.	9.43	135.7	0.333	1.78	6.38	315.8
619.	9.55	135.6	0.339	1.83	6.62	315.9
620.	9.75	135.1	0.349	1.89	6.89	315.8
621.	9.94	134.7	0.359	1.97	6.99	315.7
622.	10.19	134.0	0.371	2.06	7.06	315.5
623.	10.44	133.5	0.384	2.15	7.15	315.3
700.	10.77	132.7	0.400	2.27	7.26	315.2
701.	10.97	132.1	0.411	2.38	7.41	315.1
702.	11.22	131.4	0.423	2.48	7.62	315.1
703.	11.48	130.6	0.437	2.59	7.91	315.0
704.	11.75	129.7	0.451	2.71	8.13	315.0
705.	12.06	128.8	0.467	2.84	8.33	315.0
706.	12.42	127.7	0.486	3.00	8.60	315.2
707.	12.90	125.7	0.511	3.18	8.94	315.4
708.	13.51	123.7	0.544	3.42	9.23	315.9
709.	14.21	121.5	0.582	3.70	9.42	317.0
710.	14.99	119.1	0.625	4.03	9.67	318.7
711.	15.87	116.3	0.675	4.41	10.01	321.0
712.	16.98	113.4	0.739	4.82	10.41	323.3
713.	19.77	106.0	0.905	5.31	10.71	323.8

714.	23.96	100.3	1.172	5.95	11.19	323.2
715.	29.97	99.1	1.590	7.07	11.38	322.8
716.	28.69	131.4	1.498	8.57	14.49	332.5
717.	19.51	246.9	0.889	7.55	15.33	345.4
718.	23.90	256.2	1.168	7.22	13.46	5.1
719.	19.85	259.6	0.910	6.38	14.97	15.4
720.	16.31	263.7	0.700	5.55	14.53	21.9
721.	13.82	268.1	0.561	4.86	13.91	25.9
722.	11.71	272.1	0.449	4.40	13.39	28.3
723.	9.84	276.4	0.354	4.03	13.17	28.2
800.	7.90	280.2	0.262	3.66	12.17	28.3

Storm of 53090512 at grid point 691

ddhh	WS	WD	U*	Hs	Tp	VMD
513.	6.63	123.3	0.212	0.04	3.24	302.9
514.	6.72	123.9	0.215	0.11	3.24	303.1
515.	6.80	124.6	0.218	0.29	3.24	303.1
516.	6.89	125.2	0.221	0.57	3.24	304.1
517.	6.98	125.7	0.225	0.69	3.24	305.8
518.	7.07	126.2	0.228	0.80	3.24	304.8
519.	7.16	126.7	0.231	0.90	4.04	304.6
520.	7.25	127.2	0.235	0.95	4.10	305.1
521.	7.33	127.7	0.238	0.99	4.13	306.3
522.	7.42	128.2	0.242	1.02	4.15	306.9
523.	7.51	128.6	0.245	1.05	4.19	307.0
600.	7.60	129.1	0.249	1.10	4.27	307.3
601.	7.72	129.3	0.254	1.15	4.41	308.0
602.	7.85	129.6	0.260	1.19	4.58	308.4
603.	7.97	129.9	0.265	1.23	4.85	308.6
604.	8.11	130.0	0.271	1.28	5.46	308.8
605.	8.25	130.0	0.277	1.32	5.55	308.9
606.	8.38	130.1	0.284	1.37	5.61	309.1
607.	8.54	130.0	0.291	1.42	5.68	309.2
608.	8.70	129.9	0.299	1.47	5.74	309.3
609.	8.87	129.9	0.306	1.52	5.82	309.4
610.	9.01	129.8	0.313	1.58	5.90	309.6
611.	9.17	129.5	0.321	1.65	6.02	309.9
612.	9.35	129.1	0.330	1.72	6.16	309.9
613.	9.47	128.8	0.335	1.78	6.35	309.6
614.	9.59	128.7	0.341	1.84	6.51	309.3
615.	9.71	128.6	0.347	1.89	6.69	309.3
616.	9.90	128.2	0.357	1.95	6.89	309.3
617.	10.09	127.9	0.366	2.03	6.98	309.3
618.	10.33	127.5	0.378	2.11	7.08	309.2
619.	10.59	126.5	0.391	2.20	7.20	308.9
620.	10.92	125.4	0.408	2.32	7.37	308.7
621.	11.28	124.3	0.427	2.46	7.61	308.5
622.	11.73	123.0	0.450	2.62	8.02	308.2
623.	12.20	121.8	0.474	2.80	8.24	308.0
700.	12.78	120.6	0.505	3.01	8.48	308.0
701.	13.17	119.4	0.526	3.21	8.71	308.0
702.	13.59	118.2	0.549	3.41	8.94	308.2
703.	14.11	117.0	0.577	3.64	9.25	308.7
704.	14.67	115.7	0.607	3.90	9.79	309.6
705.	15.27	114.3	0.641	4.19	10.35	311.0
706.	15.99	112.7	0.682	4.54	10.57	313.0
707.	17.09	109.8	0.745	4.96	10.84	315.7
708.	18.34	106.8	0.819	5.45	11.21	318.7
709.	19.88	103.8	0.912	5.88	11.61	320.2
710.	22.02	101.5	1.046	6.31	13.15	320.3
711.	24.49	99.4	1.207	6.86	12.51	320.9
712.	27.56	98.3	1.418	7.62	12.85	323.0
713.	33.62	108.9	1.865	9.15	13.78	326.1

714.	8.63	235.8	0.295	9.80	14.52	340.3
715.	24.51	262.9	1.208	7.46	13.35	357.4
716.	20.94	263.5	0.978	6.68	12.91	8.3
717.	17.51	265.4	0.770	5.65	12.17	20.1
718.	14.64	266.8	0.606	4.90	13.14	27.2
719.	12.41	268.9	0.485	4.38	12.73	29.5
720.	10.47	271.8	0.385	3.84	11.95	33.2
721.	8.62	273.1	0.294	3.57	11.95	31.2
722.	6.75	276.0	0.216	3.27	11.85	30.5
723.	5.16	276.4	0.167	2.95	11.18	33.9
800.	3.77	274.5	0.129	2.70	10.74	38.3

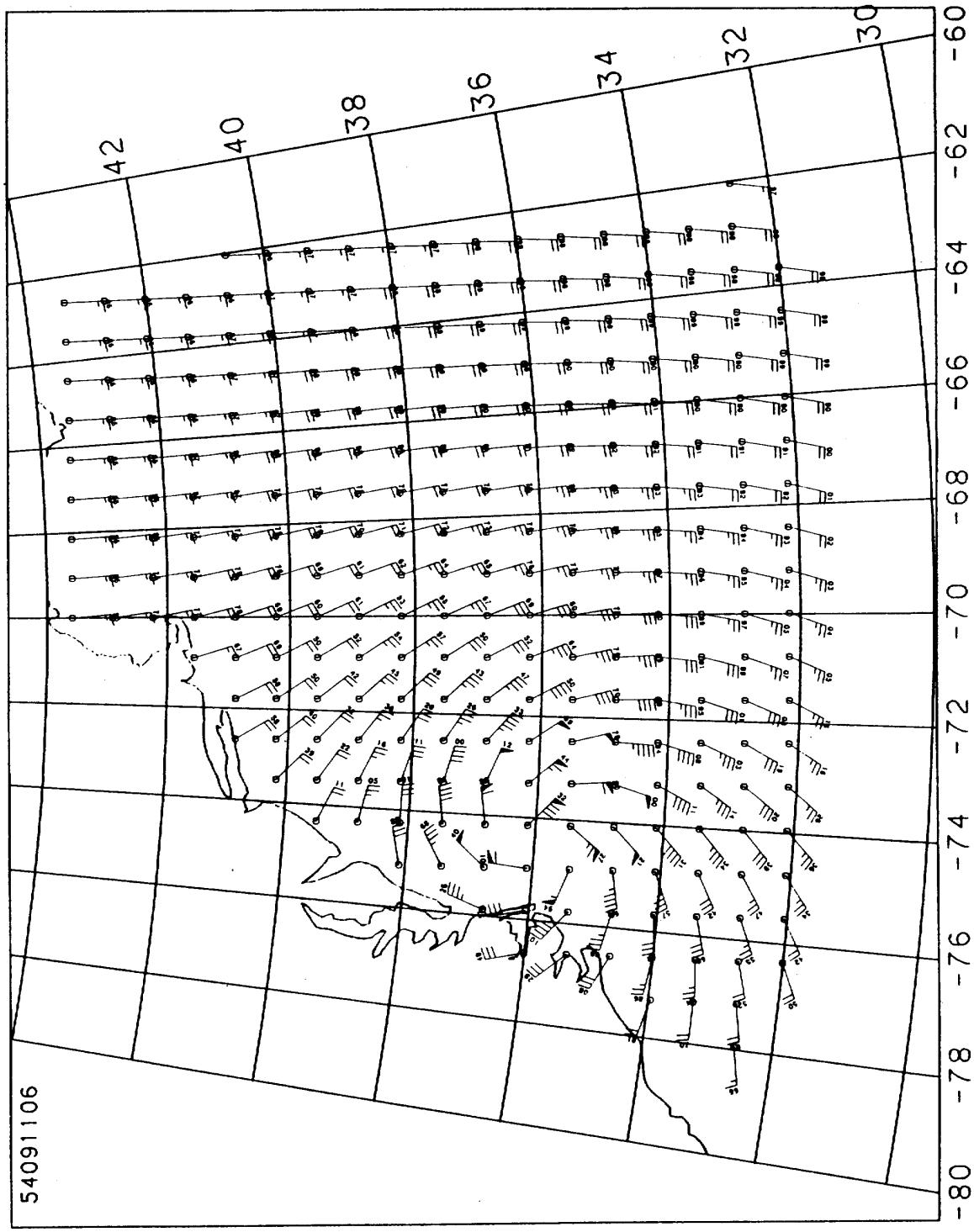
Storm of 53090512 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
513.	6.25	125.3	0.200	0.04	3.24	304.8
514.	6.33	126.0	0.202	0.10	3.24	305.0
515.	6.40	126.7	0.204	0.27	3.24	305.1
516.	6.49	127.3	0.207	0.54	3.24	305.6
517.	6.58	127.9	0.210	0.63	3.24	307.5
518.	6.68	128.5	0.214	0.68	3.24	307.9
519.	6.76	129.1	0.217	0.77	3.24	307.8
520.	6.85	129.7	0.220	0.84	4.01	307.6
521.	6.94	130.2	0.223	0.89	4.06	308.0
522.	7.03	130.8	0.226	0.93	4.09	309.0
523.	7.12	131.3	0.230	0.95	4.11	309.4
600.	7.20	131.8	0.233	0.98	4.13	309.8
601.	7.32	132.2	0.238	1.02	4.18	310.3
602.	7.43	132.6	0.242	1.06	4.25	310.7
603.	7.55	132.9	0.247	1.11	4.35	310.9
604.	7.67	133.2	0.252	1.15	4.47	311.0
605.	7.80	133.4	0.258	1.18	4.64	311.2
606.	7.92	133.6	0.263	1.22	4.95	311.6
607.	8.06	133.8	0.269	1.27	5.47	311.7
608.	8.20	133.9	0.275	1.31	5.54	311.9
609.	8.34	134.0	0.282	1.36	5.60	312.1
610.	8.48	134.1	0.288	1.41	5.66	312.7
611.	8.65	134.0	0.296	1.47	5.72	313.3
612.	8.81	133.9	0.304	1.53	5.80	313.8
613.	8.88	134.0	0.307	1.57	5.88	314.2
614.	8.95	134.1	0.310	1.60	5.93	314.4
615.	9.02	134.2	0.314	1.63	5.99	314.5
616.	9.14	133.9	0.319	1.67	6.07	314.4
617.	9.27	133.7	0.325	1.72	6.18	314.2
618.	9.39	133.6	0.332	1.77	6.32	314.1
619.	9.51	133.3	0.338	1.81	6.52	313.9
620.	9.70	132.5	0.347	1.88	6.86	313.6
621.	9.89	131.8	0.356	1.95	6.95	313.3
622.	10.15	130.8	0.369	2.04	7.04	312.8
623.	10.41	129.9	0.382	2.14	7.13	312.3
700.	10.77	128.7	0.400	2.27	7.25	311.8
701.	10.98	127.8	0.411	2.37	7.39	311.5
702.	11.23	126.7	0.424	2.48	7.59	311.3
703.	11.51	125.4	0.438	2.60	7.94	311.2
704.	11.78	124.2	0.452	2.73	8.19	311.2
705.	12.09	122.8	0.469	2.87	8.38	311.2
706.	12.46	121.2	0.488	3.04	8.56	311.4
707.	12.93	118.5	0.513	3.24	8.77	311.7
708.	13.55	115.6	0.546	3.50	9.07	312.2
709.	14.25	112.5	0.585	3.81	9.44	313.3
710.	15.06	108.9	0.629	4.16	10.08	315.2
711.	15.95	104.9	0.680	4.56	10.52	317.3
712.	17.07	100.4	0.744	4.97	10.96	319.4
713.	19.82	89.6	0.908	5.27	15.72	318.1

714.	23.69	78.1	1.154	5.69	13.61	316.1
715.	27.32	65.2	1.400	6.37	14.61	314.9
716.	21.26	45.0	0.998	6.35	15.69	320.6
717.	15.78	334.3	0.670	7.23	14.51	323.8
718.	16.05	303.5	0.685	7.35	13.62	330.6
719.	14.58	295.7	0.603	5.40	13.24	334.1
720.	12.70	291.4	0.501	4.55	12.64	343.6
721.	10.94	290.6	0.409	3.85	12.80	353.9
722.	9.32	291.7	0.328	3.44	13.30	3.1
723.	7.56	294.1	0.248	3.11	13.16	9.0
800.	5.87	295.3	0.188	2.79	12.12	13.6

STORM #6

Hurricane Edna, September 1954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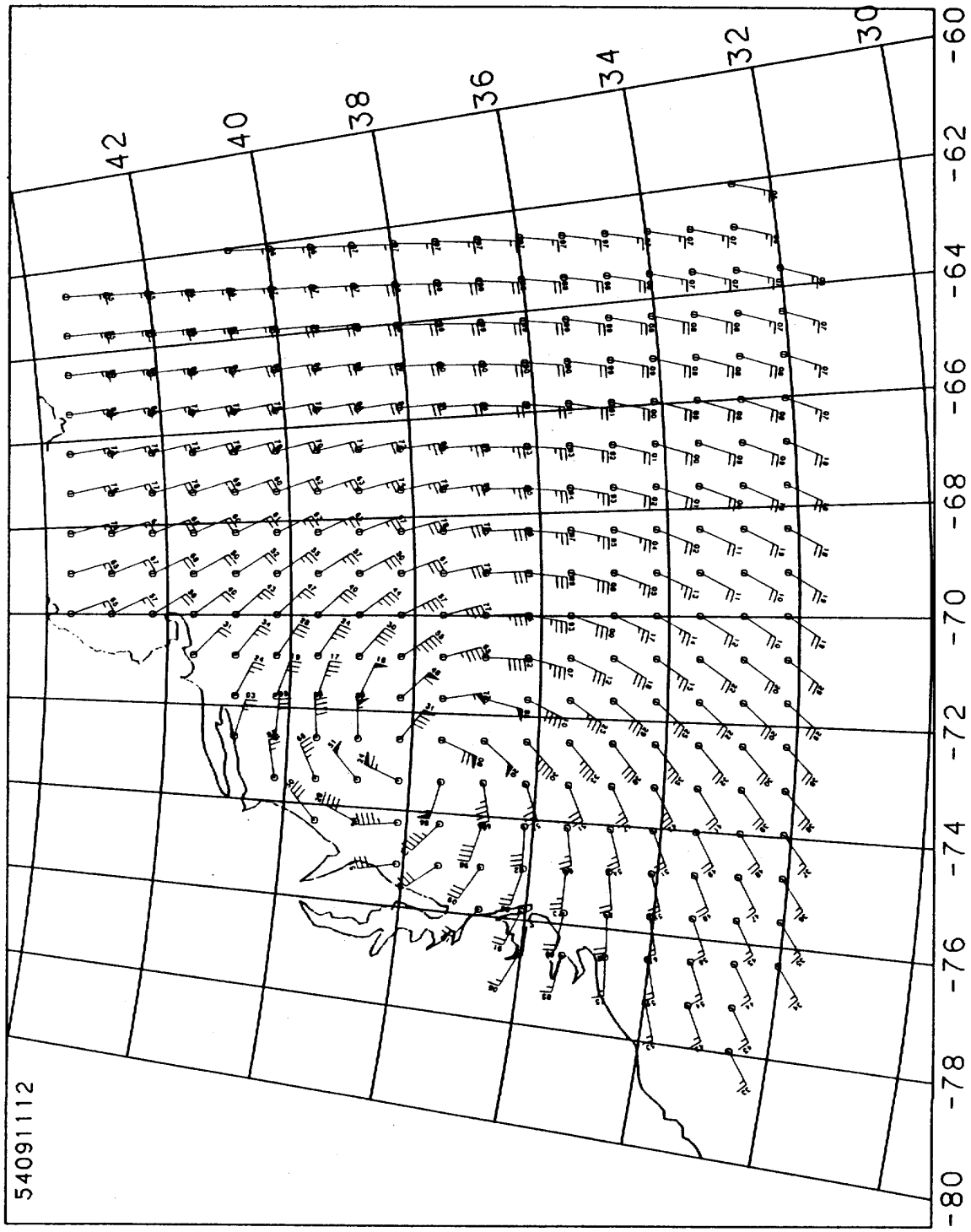

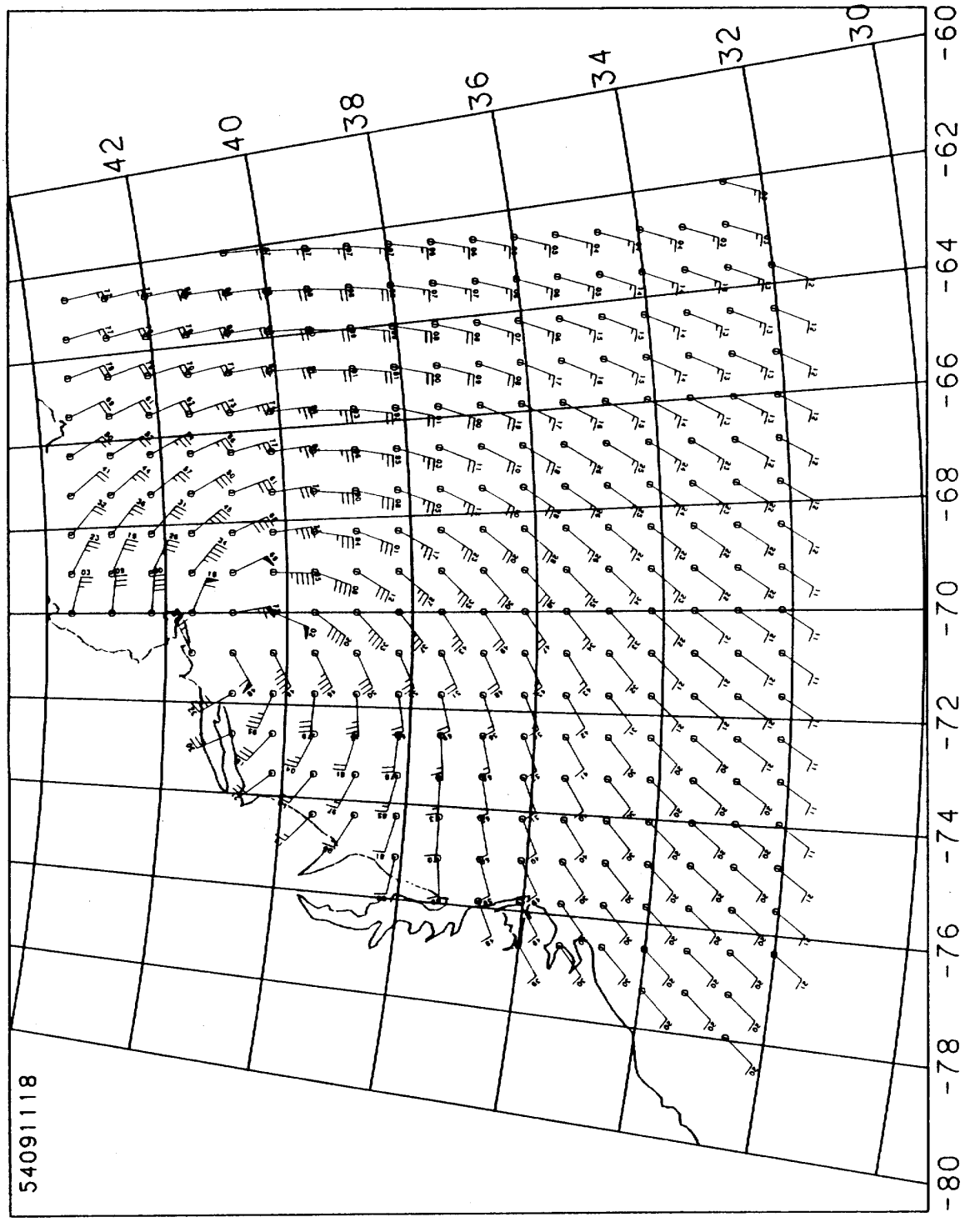
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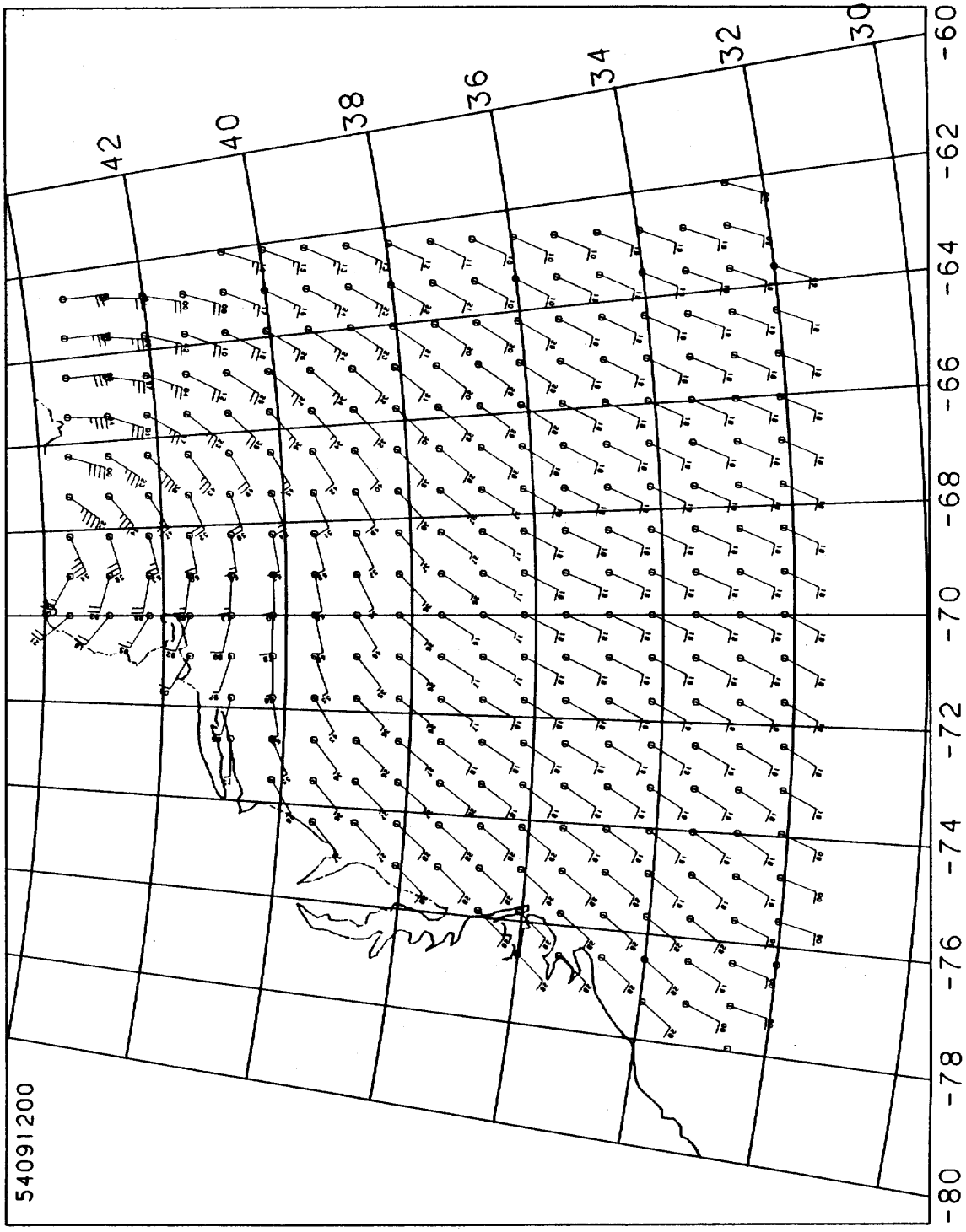
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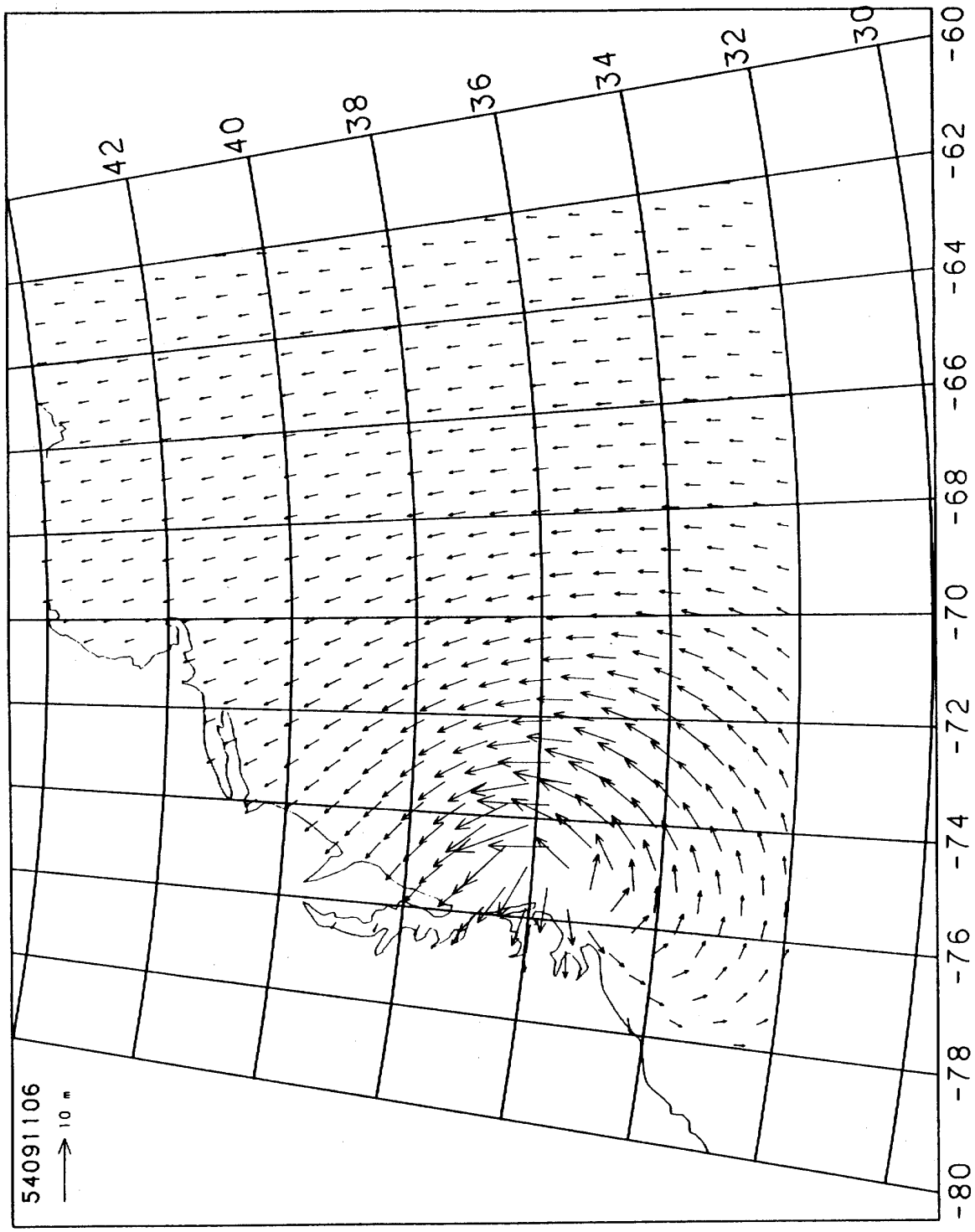
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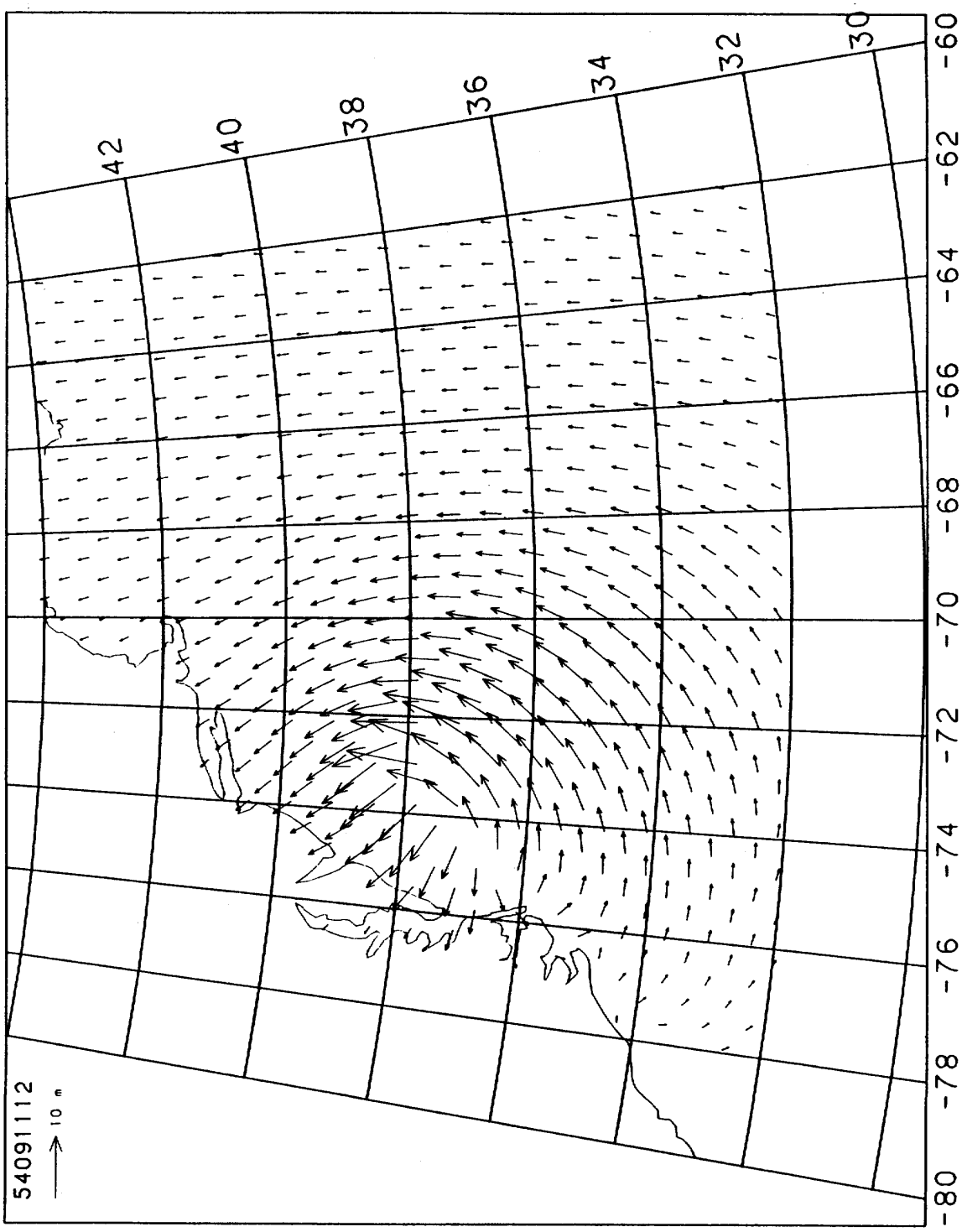
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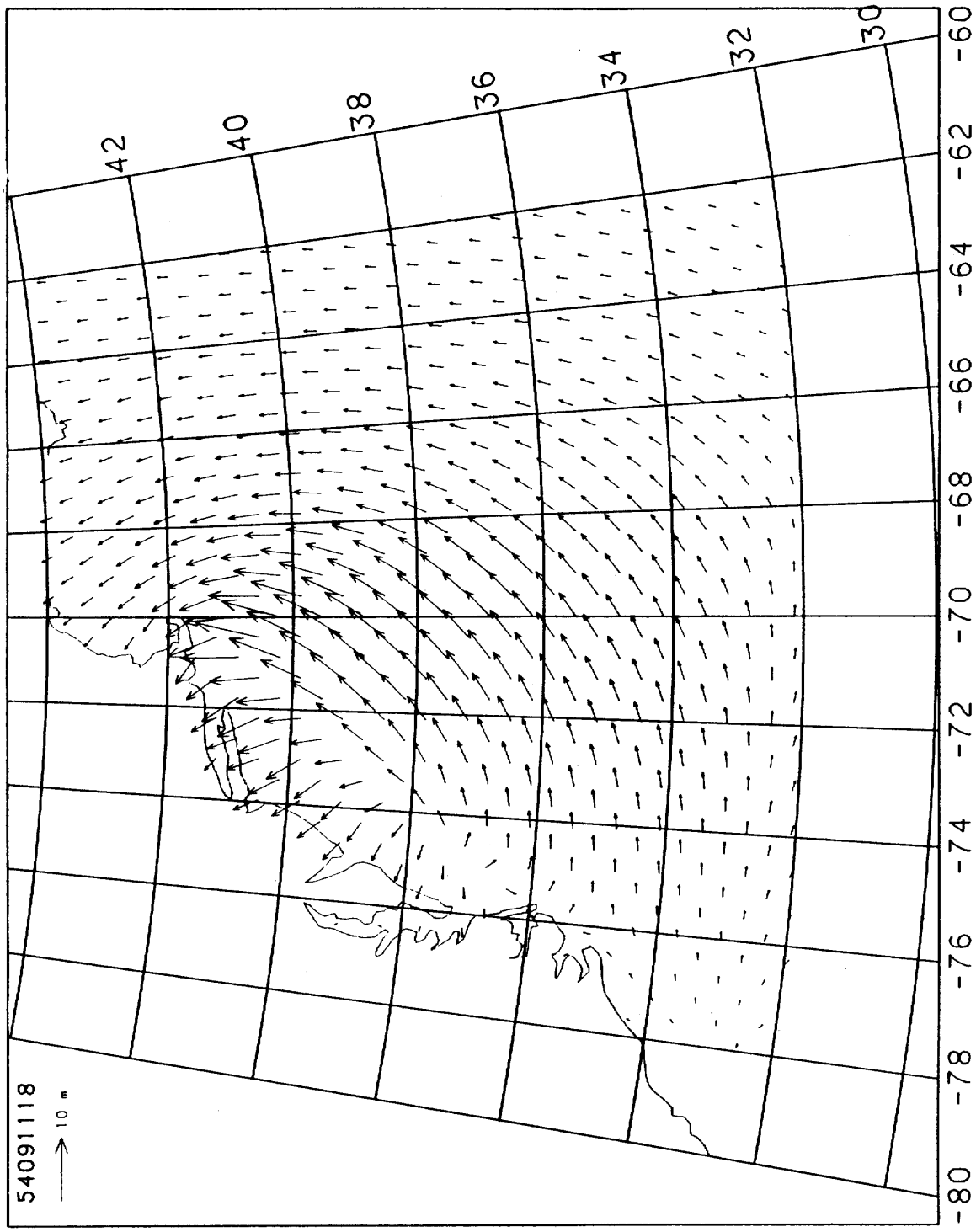
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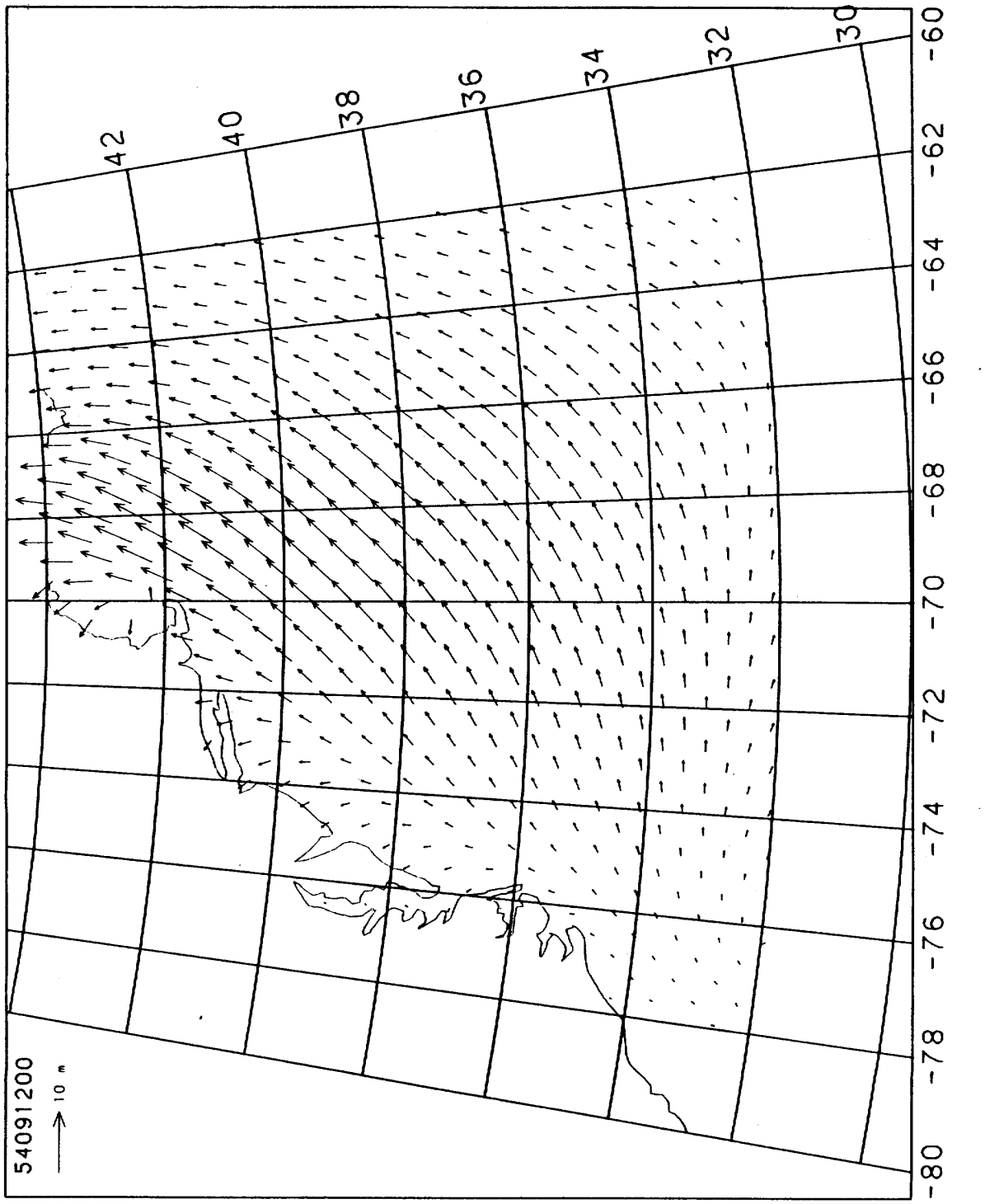

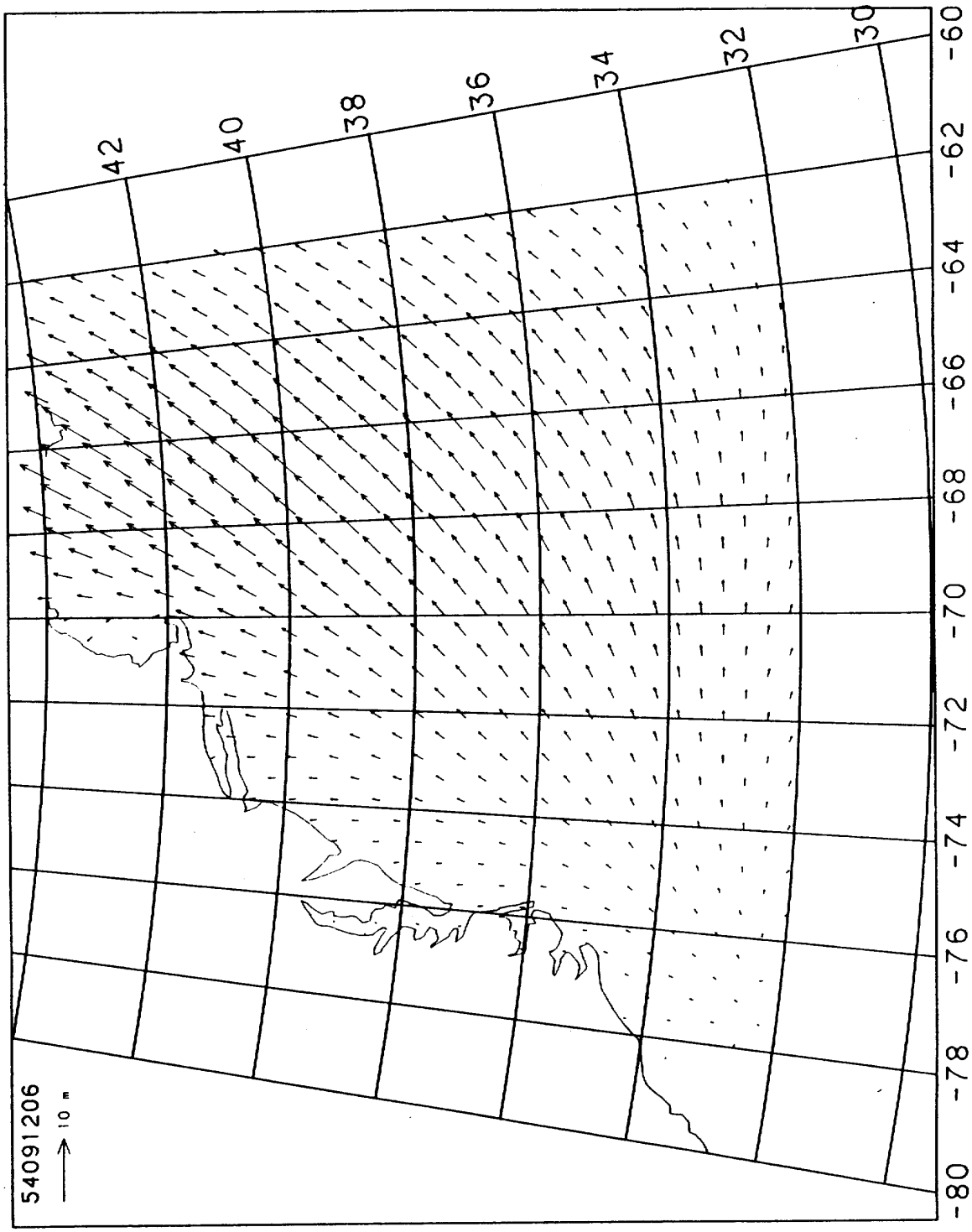
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Storm of 54091012 at grid point 383

ddhh	WS	WD	U*	Hs	Tp	VMD
1013.	8.57	166.1	0.292	0.07	4.11	346.2
1014.	8.63	165.7	0.295	0.20	3.24	346.3
1015.	8.69	165.4	0.298	0.51	3.24	346.6
1016.	8.75	165.0	0.301	0.84	3.24	346.3
1017.	8.81	164.7	0.304	1.07	4.10	345.1
1018.	8.88	164.3	0.307	1.23	4.22	344.7
1019.	8.91	166.6	0.308	1.31	4.36	344.8
1020.	8.95	168.0	0.310	1.41	5.06	345.3
1021.	8.97	170.3	0.311	1.49	5.57	346.8
1022.	9.01	171.7	0.313	1.53	5.61	347.9
1023.	9.04	173.9	0.314	1.58	5.67	348.8
1100.	9.07	175.2	0.316	1.62	5.73	349.7
1101.	8.96	176.7	0.311	1.64	5.80	350.3
1102.	8.87	177.2	0.307	1.66	5.84	350.6
1103.	8.75	178.6	0.300	1.66	5.88	351.1
1104.	8.61	180.0	0.294	1.66	5.91	351.6
1105.	8.50	180.5	0.289	1.67	5.93	351.9
1106.	8.36	181.8	0.283	1.67	5.96	352.5
1107.	8.31	181.2	0.280	1.68	5.98	352.7
1108.	8.30	180.2	0.280	1.68	6.00	352.9
1109.	8.30	179.2	0.280	1.69	6.02	353.1
1110.	8.31	178.3	0.280	1.70	6.05	353.3
1111.	8.31	177.3	0.280	1.71	6.08	353.5
1112.	8.37	176.3	0.283	1.71	6.11	353.7
1113.	8.64	173.7	0.295	1.72	6.15	353.8
1114.	8.91	171.8	0.308	1.74	6.19	353.9
1115.	9.22	169.1	0.323	1.77	6.26	353.3
1116.	9.60	166.5	0.342	1.84	6.39	352.0
1117.	10.03	165.0	0.363	1.95	6.69	351.0
1118.	10.52	163.6	0.388	2.09	7.00	350.4
1119.	11.28	163.1	0.426	2.29	7.28	350.4
1120.	12.21	164.1	0.475	2.56	7.89	351.4
1121.	13.17	168.2	0.526	2.88	8.24	353.6
1122.	14.05	175.8	0.573	3.22	8.56	357.2
1123.	14.44	187.6	0.595	3.51	9.16	2.3
1200.	14.16	203.0	0.580	3.66	9.15	9.3
1201.	12.60	221.3	0.495	3.51	9.42	18.0
1202.	10.33	239.0	0.378	3.45	9.05	24.0
1203.	7.73	253.3	0.255	3.59	17.26	29.1
1204.	4.94	259.3	0.161	3.74	16.19	32.9
1205.	2.69	254.8	0.097	3.92	15.68	35.3
1206.	1.41	214.8	0.056	4.10	14.92	37.5

Storm of 54091012 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
1013.	8.80	164.4	0.303	0.08	4.13	344.6
1014.	8.88	164.0	0.307	0.22	3.24	344.9
1015.	8.94	163.5	0.310	0.57	3.24	345.3
1016.	9.00	163.1	0.313	0.88	3.24	344.1
1017.	9.07	162.7	0.316	1.10	4.11	343.1
1018.	9.14	162.3	0.319	1.27	4.26	342.9
1019.	9.17	164.4	0.321	1.38	4.52	342.8
1020.	9.23	165.6	0.324	1.49	5.55	343.6
1021.	9.27	167.8	0.326	1.56	5.64	345.1
1022.	9.32	168.9	0.328	1.62	5.69	345.9
1023.	9.36	170.9	0.330	1.68	5.78	346.9
1100.	9.43	172.0	0.333	1.73	5.90	347.7
1101.	9.35	173.3	0.329	1.76	6.02	348.2
1102.	9.28	173.6	0.326	1.78	6.10	348.4
1103.	9.19	174.7	0.322	1.79	6.18	348.8
1104.	9.11	175.8	0.318	1.81	6.27	349.2
1105.	9.05	176.0	0.315	1.82	6.33	349.4
1106.	8.98	177.0	0.312	1.83	6.42	349.8
1107.	9.01	175.9	0.313	1.84	6.51	350.0
1108.	9.06	174.7	0.316	1.85	6.62	350.3
1109.	9.15	173.4	0.320	1.87	6.75	350.5
1110.	9.27	172.0	0.325	1.89	6.86	350.7
1111.	9.43	170.5	0.334	1.91	6.89	351.0
1112.	9.63	168.9	0.343	1.95	6.93	351.2
1113.	10.10	165.8	0.367	2.03	6.98	350.4
1114.	10.64	163.7	0.394	2.17	7.15	349.3
1115.	11.25	161.7	0.425	2.37	7.42	348.4
1116.	11.98	160.6	0.463	2.61	7.86	348.1
1117.	12.76	161.1	0.504	2.89	8.22	348.5
1118.	13.62	163.1	0.550	3.20	8.62	350.1
1119.	14.70	168.5	0.609	3.57	9.21	353.2
1120.	15.55	177.9	0.657	3.98	9.51	358.1
1121.	15.74	192.0	0.668	4.34	10.07	4.8
1122.	14.82	209.0	0.616	4.41	10.09	13.4
1123.	12.90	224.8	0.512	4.31	10.12	22.1
1200.	10.73	239.7	0.399	4.34	15.94	29.3
1201.	8.22	252.6	0.276	4.47	15.54	33.2
1202.	5.49	258.4	0.177	4.63	14.92	36.2
1203.	3.23	254.9	0.113	4.80	14.70	38.2
1204.	1.83	224.3	0.070	4.91	14.41	39.7
1205.	2.09	184.7	0.078	4.93	13.48	40.9
1206.	2.82	176.2	0.101	4.87	13.16	41.2

Storm of 54091012 at grid point 500

ddhh	WS	WD	U*	Hs	Tp	VMD
1013.	8.60	165.3	0.294	0.08	4.11	345.4
1014.	8.66	164.9	0.296	0.20	3.24	345.5
1015.	8.72	164.5	0.299	0.52	3.24	345.8
1016.	8.79	164.1	0.303	0.85	3.24	345.4
1017.	8.86	163.7	0.306	1.08	4.10	344.2
1018.	8.92	163.2	0.309	1.24	4.23	343.7
1019.	8.95	165.5	0.310	1.32	4.38	343.7
1020.	8.99	166.8	0.312	1.42	5.28	344.3
1021.	9.01	169.0	0.313	1.50	5.58	345.7
1022.	9.05	170.3	0.315	1.55	5.63	346.7
1023.	9.08	172.4	0.316	1.59	5.69	347.5
1100.	9.13	173.5	0.319	1.64	5.76	348.4
1101.	9.01	174.9	0.313	1.66	5.83	348.9
1102.	8.92	175.3	0.309	1.68	5.88	349.2
1103.	8.80	176.6	0.303	1.68	5.92	349.5
1104.	8.67	177.8	0.297	1.69	5.96	350.0
1105.	8.56	178.2	0.292	1.69	5.99	350.2
1106.	8.41	179.4	0.285	1.70	6.02	350.6
1107.	8.42	178.2	0.285	1.71	6.05	350.7
1108.	8.42	176.9	0.285	1.72	6.09	350.8
1109.	8.43	175.7	0.286	1.73	6.13	351.0
1110.	8.45	174.4	0.287	1.74	6.17	351.1
1111.	8.53	172.9	0.290	1.76	6.23	351.1
1112.	8.63	171.2	0.295	1.77	6.29	351.2
1113.	8.98	167.8	0.312	1.79	6.35	351.1
1114.	9.34	164.7	0.329	1.83	6.45	350.3
1115.	9.84	160.9	0.354	1.92	6.67	348.7
1116.	10.44	157.3	0.384	2.06	6.96	346.9
1117.	11.10	154.9	0.417	2.25	7.21	345.4
1118.	11.98	152.8	0.463	2.50	7.68	344.2
1119.	13.37	151.9	0.537	2.84	8.17	344.1
1120.	15.17	154.1	0.636	3.28	8.56	345.8
1121.	17.06	162.2	0.743	3.80	9.20	349.6
1122.	18.35	177.8	0.819	4.35	9.56	356.0
1123.	17.97	201.3	0.797	4.82	10.33	6.8
1200.	15.48	223.3	0.653	4.88	11.01	18.3
1201.	12.69	242.8	0.500	4.89	17.27	25.8
1202.	9.64	258.7	0.344	5.08	17.27	29.8
1203.	6.33	268.0	0.202	5.13	16.02	32.4
1204.	3.44	270.1	0.119	5.14	15.31	34.7
1205.	1.45	248.8	0.057	5.09	14.71	36.2
1206.	1.46	175.0	0.057	5.05	14.45	37.2

Storm of 54091012 at grid point 617

ddhh	WS	WD	U*	Hs	Tp	VMD
1013.	8.62	164.3	0.294	0.08	4.12	344.5
1014.	8.68	163.9	0.297	0.20	3.24	344.6
1015.	8.75	163.5	0.301	0.52	3.24	344.9
1016.	8.82	163.0	0.304	0.85	3.24	344.4
1017.	8.89	162.5	0.307	1.08	4.10	343.1
1018.	8.96	162.1	0.310	1.24	4.23	342.7
1019.	8.98	164.2	0.312	1.33	4.40	342.6
1020.	9.02	165.4	0.314	1.43	5.46	343.1
1021.	9.05	167.5	0.315	1.51	5.59	344.5
1022.	9.09	168.7	0.317	1.56	5.64	345.4
1023.	9.11	170.7	0.318	1.60	5.70	346.1
1100.	9.15	171.7	0.320	1.65	5.78	346.9
1101.	9.05	172.9	0.315	1.67	5.86	347.4
1102.	8.95	173.2	0.310	1.69	5.91	347.6
1103.	8.81	174.4	0.304	1.70	5.95	347.9
1104.	8.66	175.6	0.297	1.70	5.99	348.2
1105.	8.59	175.5	0.293	1.72	6.03	348.3
1106.	8.48	176.1	0.288	1.72	6.07	348.6
1107.	8.48	174.6	0.288	1.74	6.12	348.6
1108.	8.49	173.1	0.288	1.75	6.18	348.6
1109.	8.52	171.4	0.290	1.76	6.24	348.6
1110.	8.59	169.5	0.293	1.78	6.31	348.6
1111.	8.72	167.3	0.299	1.79	6.40	348.5
1112.	8.89	164.8	0.307	1.81	6.50	348.5
1113.	9.33	160.0	0.328	1.85	6.52	347.5
1114.	9.83	155.4	0.353	1.94	6.78	345.6
1115.	10.52	150.1	0.387	2.09	6.99	342.7
1116.	11.35	145.0	0.430	2.30	7.24	339.9
1117.	12.39	140.9	0.485	2.57	7.68	337.8
1118.	13.94	137.3	0.568	2.92	8.29	336.7
1119.	16.56	135.5	0.715	3.41	8.96	337.1
1120.	20.53	140.8	0.952	4.18	9.33	339.5
1121.	24.52	161.9	1.209	5.27	9.94	347.4
1122.	23.78	201.6	1.160	5.97	10.81	4.3
1123.	19.29	226.3	0.876	6.36	17.53	18.2
1200.	14.52	245.0	0.600	6.44	17.43	27.2
1201.	10.47	263.7	0.385	6.54	16.57	30.1
1202.	6.90	276.6	0.221	6.24	15.92	31.3
1203.	4.05	280.8	0.137	5.99	15.53	32.3
1204.	1.83	269.7	0.070	5.61	14.49	32.8
1205.	1.10	202.6	0.045	5.26	13.54	32.7
1206.	2.09	170.7	0.078	4.96	13.25	32.8

Storm of 54091012 at grid point 691

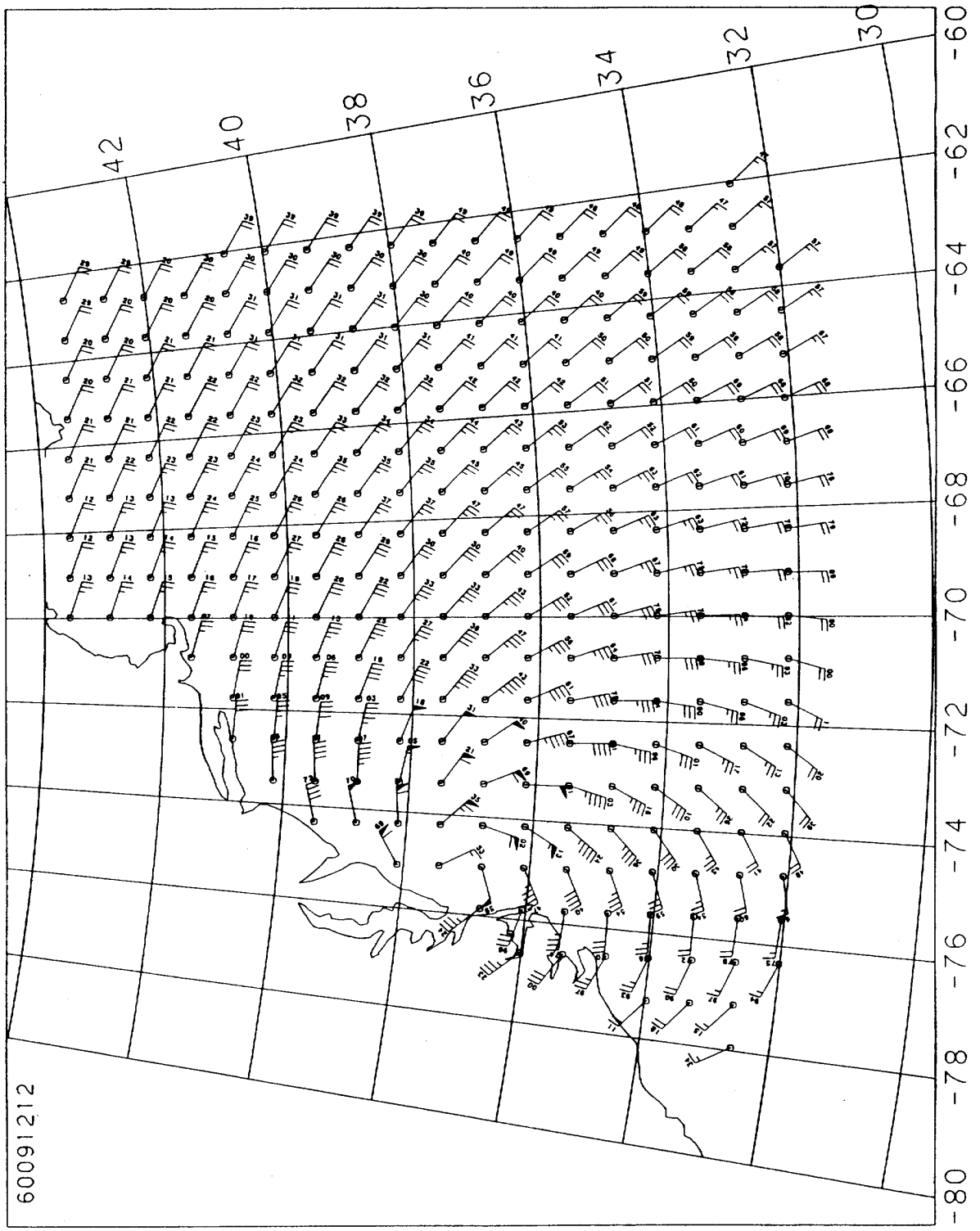
ddhh	WS	WD	U*	Hs	Tp	VMD
1013.	8.87	162.3	0.307	0.08	4.14	342.7
1014.	8.94	161.8	0.310	0.22	3.24	343.0
1015.	9.01	161.2	0.313	0.59	3.24	343.2
1016.	9.08	160.7	0.317	0.89	3.24	341.6
1017.	9.16	160.1	0.320	1.11	4.12	340.9
1018.	9.25	159.5	0.324	1.29	4.27	340.5
1019.	9.28	161.5	0.326	1.40	4.63	340.4
1020.	9.35	162.5	0.330	1.52	5.59	341.0
1021.	9.39	164.3	0.332	1.59	5.67	341.9
1022.	9.46	165.2	0.335	1.66	5.74	342.9
1023.	9.50	166.8	0.337	1.72	5.86	343.9
1100.	9.58	167.6	0.341	1.77	6.02	344.6
1101.	9.50	168.5	0.337	1.81	6.18	344.9
1102.	9.43	168.5	0.334	1.84	6.30	344.9
1103.	9.34	169.3	0.329	1.86	6.42	345.0
1104.	9.26	169.9	0.325	1.88	6.57	345.2
1105.	9.24	169.5	0.324	1.90	6.77	345.3
1106.	9.19	169.8	0.322	1.92	6.89	345.5
1107.	9.30	167.7	0.327	1.94	6.93	345.7
1108.	9.44	165.3	0.334	1.97	6.97	345.8
1109.	9.66	162.6	0.345	2.00	7.02	345.9
1110.	9.91	159.8	0.357	2.06	7.08	345.2
1111.	10.27	156.5	0.375	2.16	7.15	343.8
1112.	10.66	153.3	0.395	2.29	7.27	341.9
1113.	11.54	147.8	0.440	2.50	7.60	339.4
1114.	12.55	143.7	0.493	2.77	8.18	337.8
1115.	13.97	139.8	0.569	3.12	8.58	337.0
1116.	15.87	137.5	0.675	3.56	9.13	337.5
1117.	18.30	138.6	0.816	4.15	9.47	339.4
1118.	21.39	145.6	1.006	4.98	10.06	343.7
1119.	24.55	167.2	1.211	6.16	10.82	354.4
1120.	23.31	202.8	1.129	7.28	12.59	11.7
1121.	19.03	226.0	0.860	7.38	16.71	22.9
1122.	14.57	243.4	0.602	7.16	16.05	29.4
1123.	11.24	257.5	0.424	6.85	15.40	31.7
1200.	8.25	269.0	0.277	6.47	14.54	33.7
1201.	5.19	274.8	0.168	5.97	13.54	34.9
1202.	2.92	269.2	0.104	5.59	13.19	35.4
1203.	1.65	235.9	0.064	5.22	12.46	35.7
1204.	2.00	192.0	0.076	4.88	12.04	35.5
1205.	2.78	182.7	0.100	4.53	11.84	34.4
1206.	3.41	179.6	0.119	4.23	11.66	33.1

Storm of 54091012 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
1013.	8.62	163.7	0.295	0.08	4.12	343.9
1014.	8.69	163.2	0.298	0.20	3.24	344.0
1015.	8.76	162.8	0.301	0.53	3.24	344.2
1016.	8.82	162.3	0.304	0.85	3.24	343.7
1017.	8.90	161.8	0.308	1.08	4.11	342.4
1018.	8.97	161.2	0.311	1.25	4.23	341.9
1019.	8.99	163.3	0.312	1.33	4.41	341.7
1020.	9.04	164.4	0.314	1.44	5.47	342.1
1021.	9.05	166.5	0.315	1.51	5.60	343.4
1022.	9.09	167.5	0.317	1.56	5.65	344.3
1023.	9.12	169.4	0.318	1.61	5.71	345.1
1100.	9.15	170.4	0.320	1.65	5.79	345.8
1101.	9.03	171.6	0.314	1.68	5.87	346.3
1102.	8.93	171.8	0.309	1.70	5.92	346.5
1103.	8.80	172.8	0.303	1.71	5.97	346.6
1104.	8.70	173.5	0.298	1.72	6.01	346.8
1105.	8.61	173.3	0.294	1.73	6.05	346.8
1106.	8.46	174.0	0.287	1.73	6.11	347.0
1107.	8.46	172.4	0.287	1.75	6.17	346.9
1108.	8.47	170.6	0.287	1.76	6.24	346.8
1109.	8.53	168.4	0.290	1.78	6.33	346.7
1110.	8.63	165.9	0.295	1.79	6.43	346.5
1111.	8.79	163.0	0.303	1.81	6.56	346.4
1112.	8.99	159.8	0.312	1.83	6.73	346.2
1113.	9.46	154.0	0.335	1.89	6.86	344.7
1114.	10.02	148.1	0.363	2.00	6.95	341.8
1115.	10.86	141.1	0.405	2.18	7.11	338.1
1116.	11.92	134.6	0.460	2.41	7.40	334.6
1117.	13.37	128.6	0.537	2.72	8.08	332.3
1118.	15.56	123.2	0.657	3.12	8.66	331.2
1119.	19.83	119.8	0.909	3.75	9.11	330.5
1120.	27.29	130.2	1.398	5.07	9.57	332.8
1121.	31.87	188.5	1.732	6.84	10.95	353.8
1122.	23.44	225.7	1.138	7.23	14.04	13.2
1123.	16.13	250.3	0.690	6.87	17.55	22.0
1200.	11.71	269.0	0.449	6.62	17.26	25.1
1201.	8.17	284.0	0.274	6.21	15.84	26.7
1202.	5.10	288.9	0.166	5.70	15.42	28.7
1203.	2.74	285.5	0.099	5.30	14.57	28.7
1204.	1.17	250.0	0.047	4.85	13.69	28.6
1205.	1.52	186.4	0.060	4.44	13.24	28.6
1206.	2.44	177.0	0.090	4.16	12.85	27.8

STORM #7

Hurricane Donna, September 1960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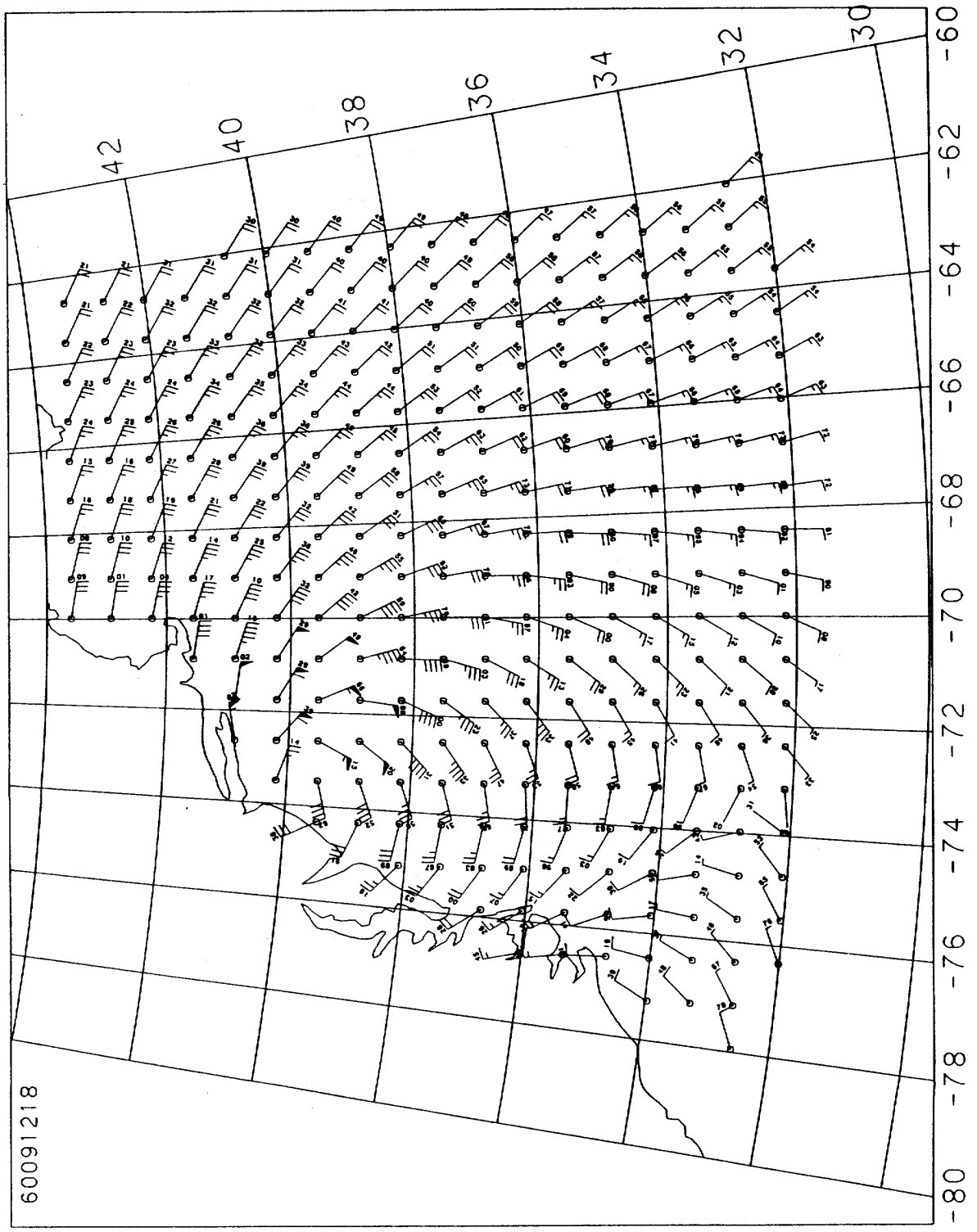
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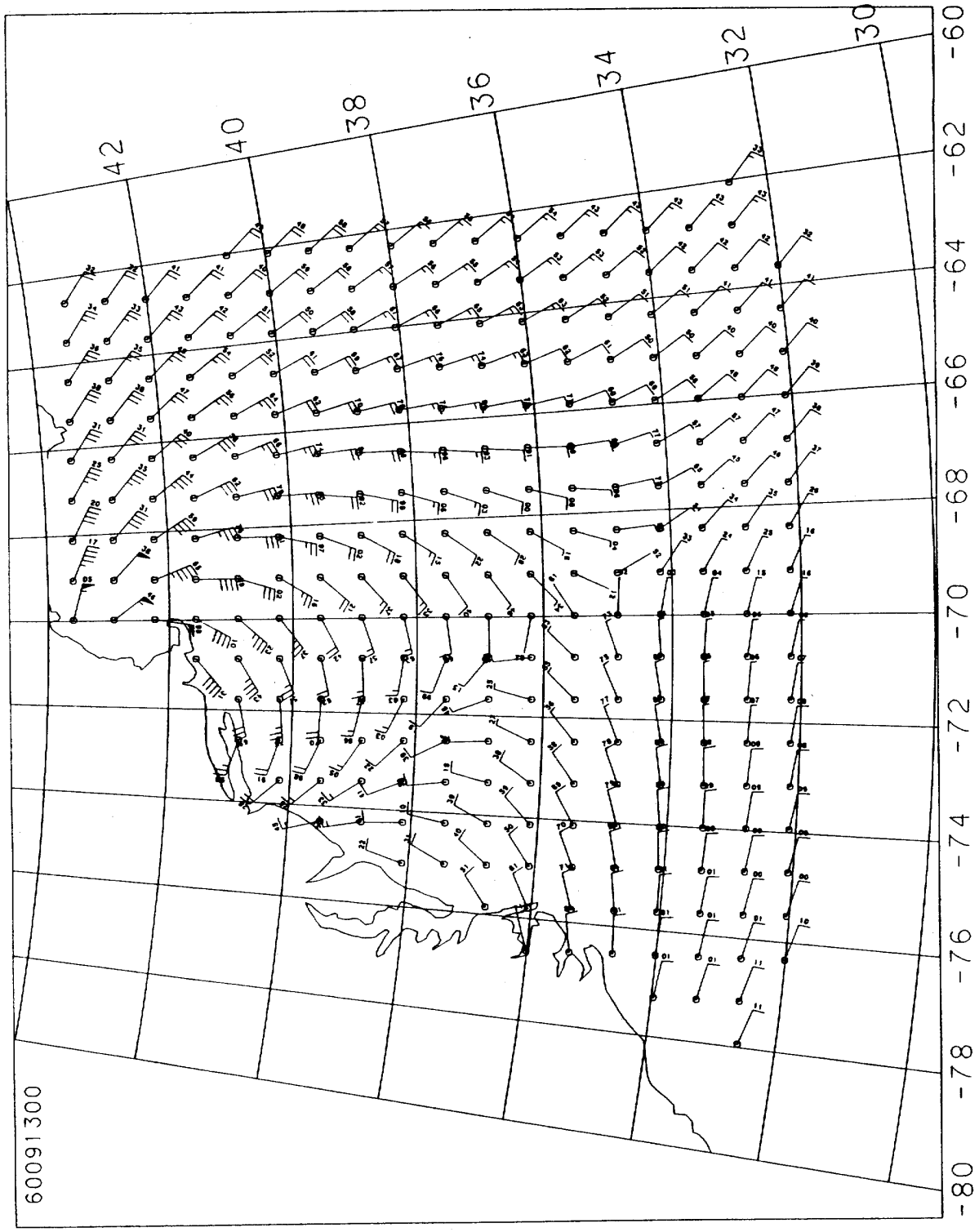
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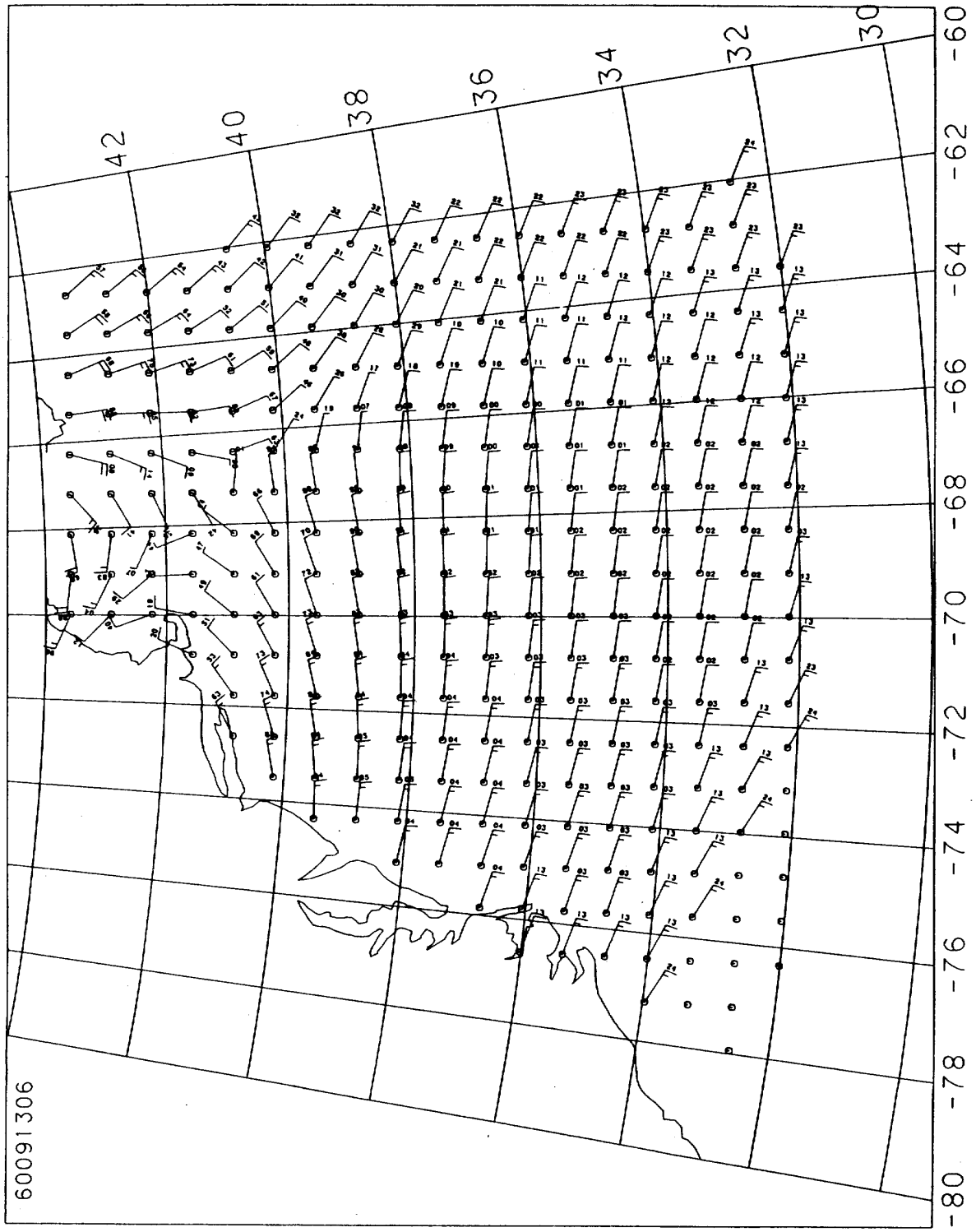
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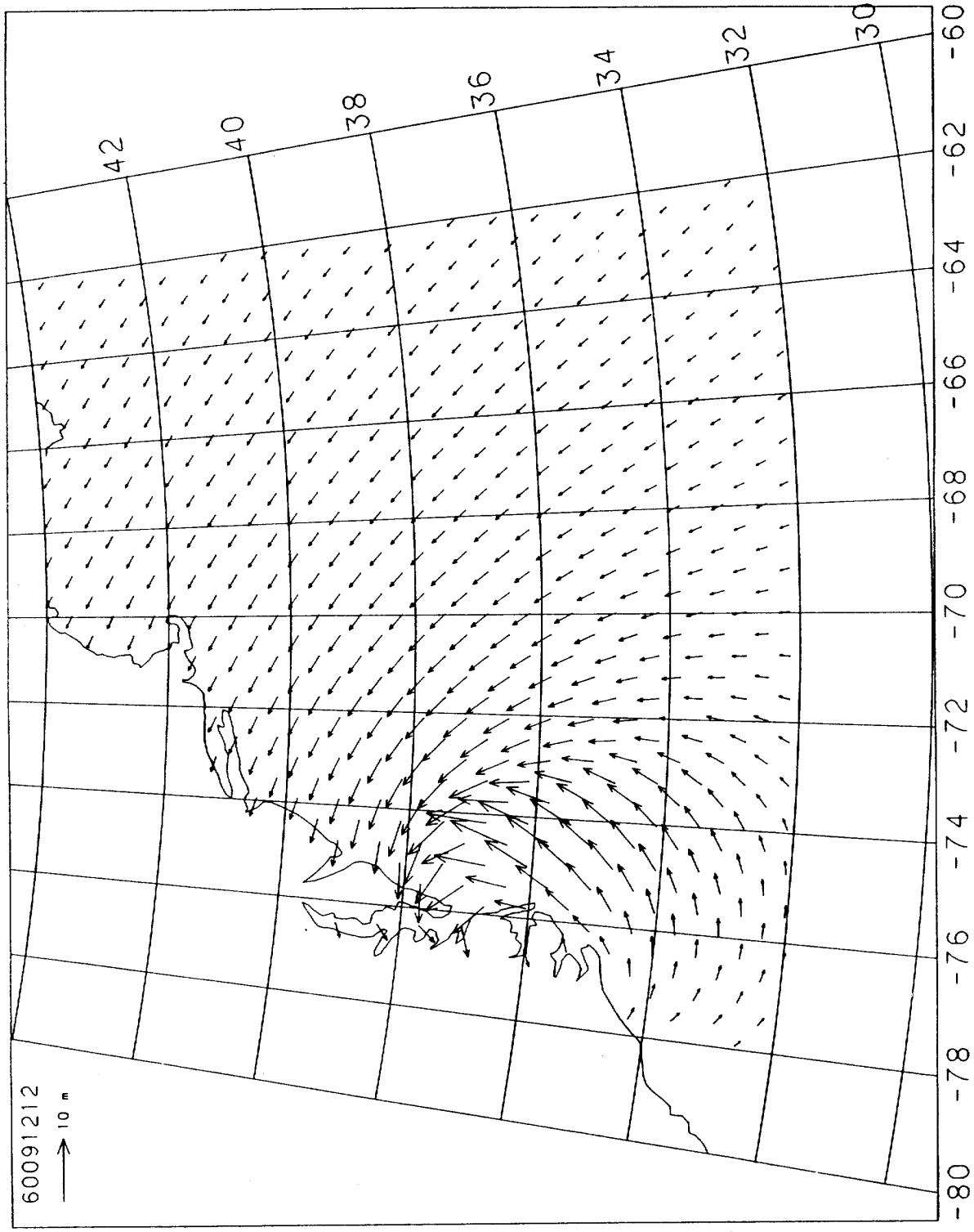
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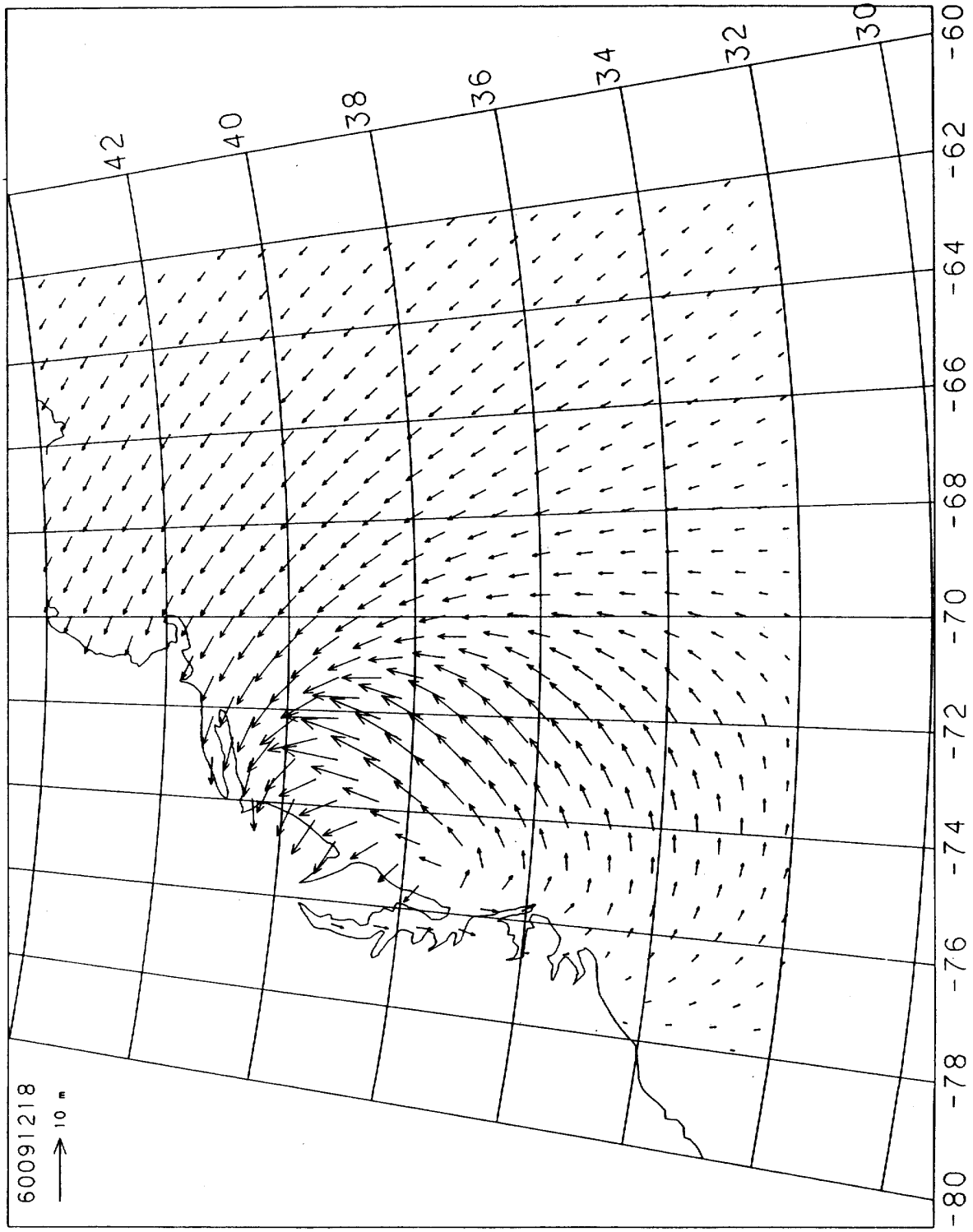

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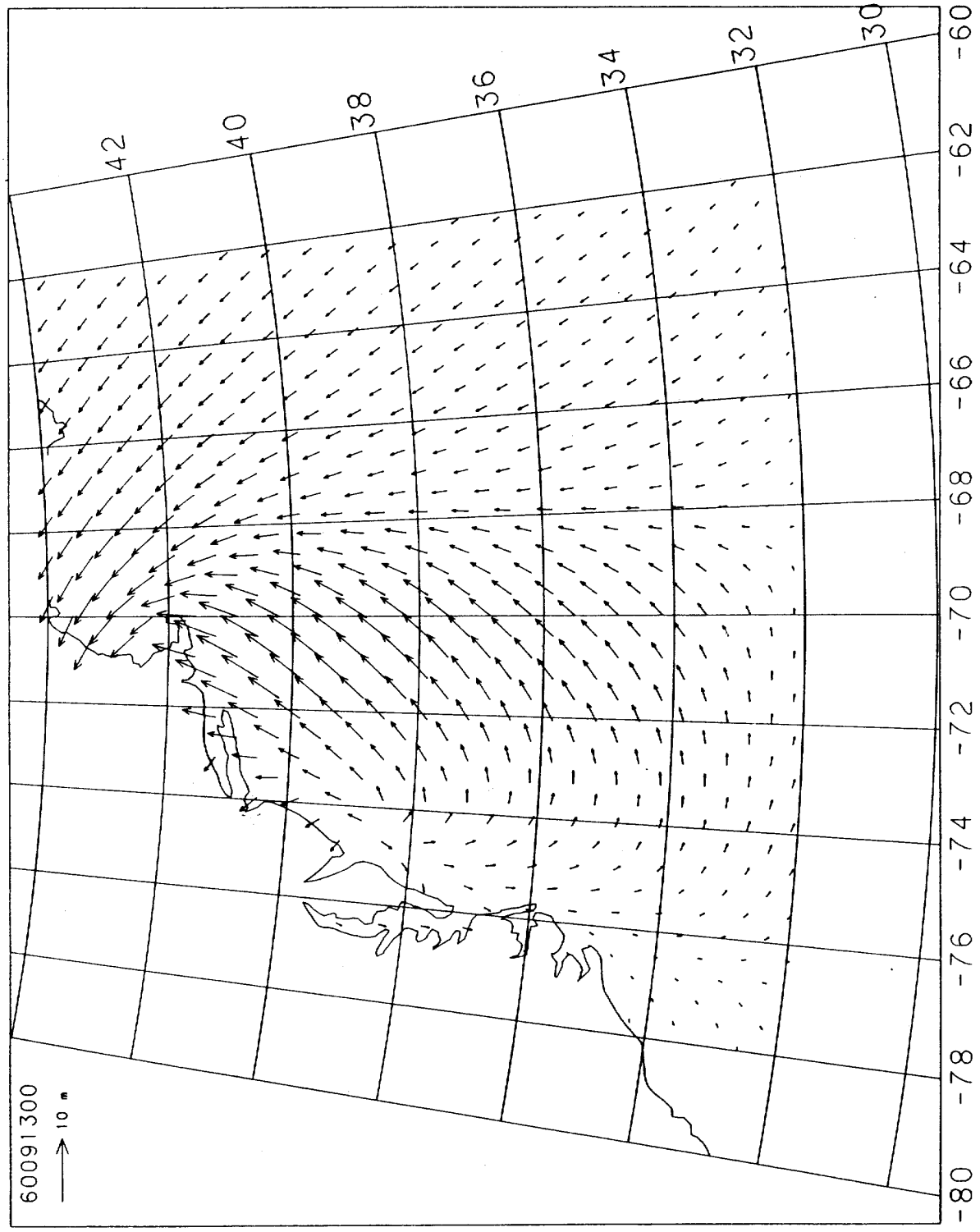

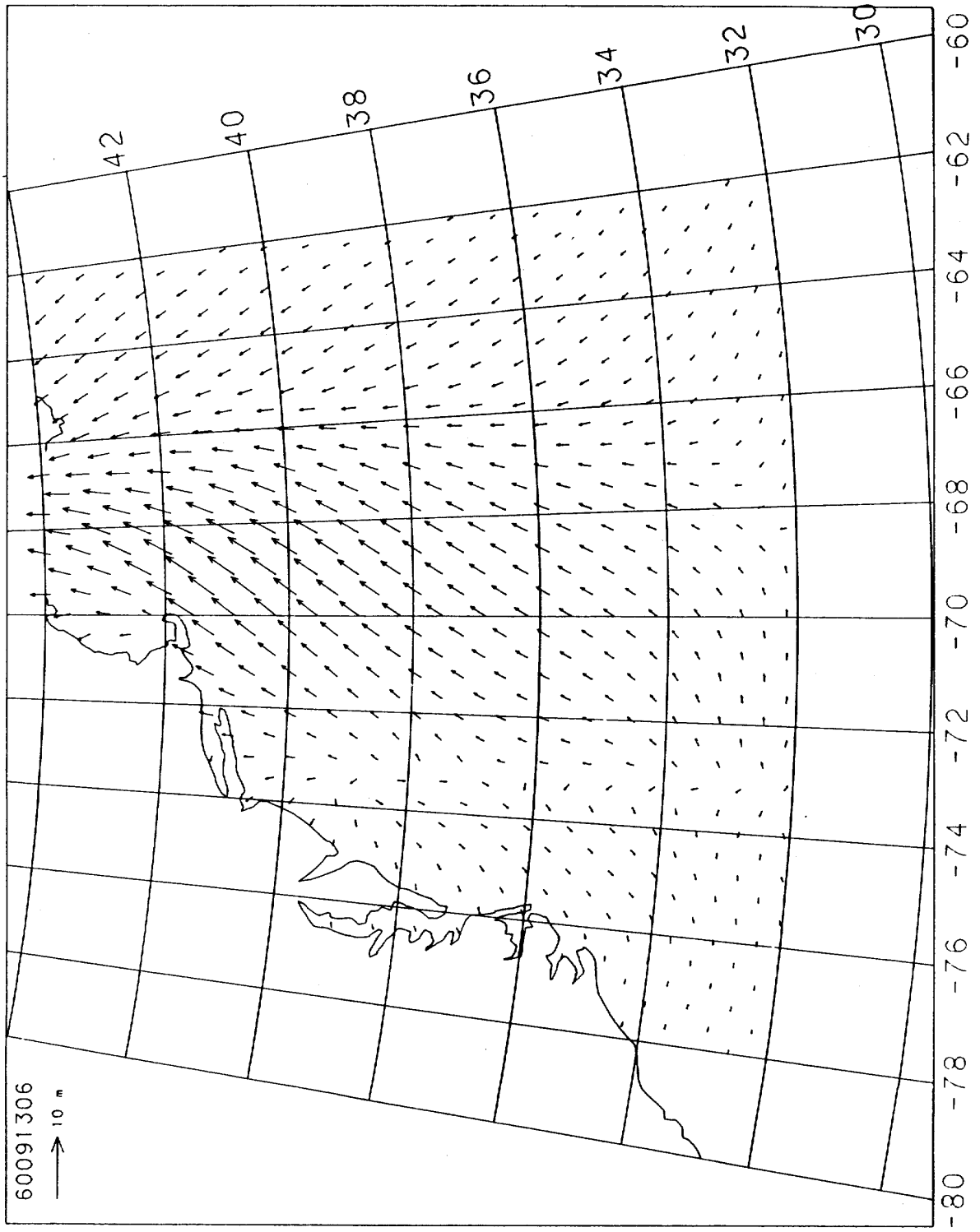
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Storm of 60091112 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
1113.	0.00	0.0	0.000	0.00	3.24	0.0
1114.	0.00	0.0	0.000	0.00	3.24	0.0
1115.	0.00	0.0	0.000	0.02	3.24	318.1
1116.	6.65	119.7	0.213	0.10	3.24	319.0
1117.	6.83	121.1	0.219	0.31	3.24	320.1
1118.	7.00	121.7	0.225	0.51	3.24	314.3
1119.	7.17	122.3	0.232	0.63	3.24	309.2
1120.	7.35	123.6	0.239	0.75	3.24	306.6
1121.	7.52	124.1	0.246	0.89	3.99	305.5
1122.	7.72	124.5	0.254	0.97	4.10	305.4
1123.	7.92	125.7	0.263	1.04	4.14	305.8
1200.	8.13	126.0	0.272	1.09	4.17	306.5
1201.	8.31	125.7	0.280	1.13	4.19	306.8
1202.	8.51	124.7	0.290	1.19	4.24	306.3
1203.	8.74	124.5	0.300	1.27	4.37	306.6
1204.	8.96	124.3	0.310	1.36	4.86	307.0
1205.	9.18	123.4	0.321	1.44	5.54	306.7
1206.	9.43	123.3	0.333	1.52	5.62	306.1
1207.	9.75	123.1	0.349	1.61	5.67	305.6
1208.	10.07	122.2	0.365	1.69	5.71	304.8
1209.	10.43	122.0	0.383	1.78	5.77	304.5
1210.	10.83	121.8	0.403	1.89	5.91	304.6
1211.	11.21	121.0	0.423	2.02	6.22	304.7
1212.	11.64	120.9	0.445	2.14	6.87	305.1
1213.	11.90	121.0	0.459	2.25	6.97	305.6
1214.	12.18	121.7	0.473	2.35	7.04	305.8
1215.	12.49	122.1	0.490	2.46	7.11	305.8
1216.	12.82	122.8	0.507	2.60	7.21	306.0
1217.	13.16	124.1	0.525	2.75	7.40	306.7
1218.	13.50	125.3	0.544	2.89	7.76	307.6
1219.	13.92	127.9	0.566	3.03	8.07	309.1
1220.	14.26	131.1	0.585	3.16	8.16	310.9
1221.	14.52	135.7	0.599	3.28	8.23	313.4
1222.	14.63	141.3	0.605	3.40	8.28	316.7
1223.	14.52	148.1	0.599	3.49	8.38	320.5
1300.	14.20	156.3	0.582	3.52	8.54	325.7
1301.	13.07	166.4	0.520	3.39	8.64	331.4
1302.	11.43	176.9	0.434	3.19	8.58	336.7
1303.	9.49	186.9	0.336	3.01	8.47	343.1
1304.	7.26	195.2	0.235	3.03	8.36	350.5
1305.	4.60	197.6	0.152	3.10	16.63	359.1
1306.	2.18	180.5	0.081	3.27	16.11	7.5

Storm of 60091112 at grid point 617

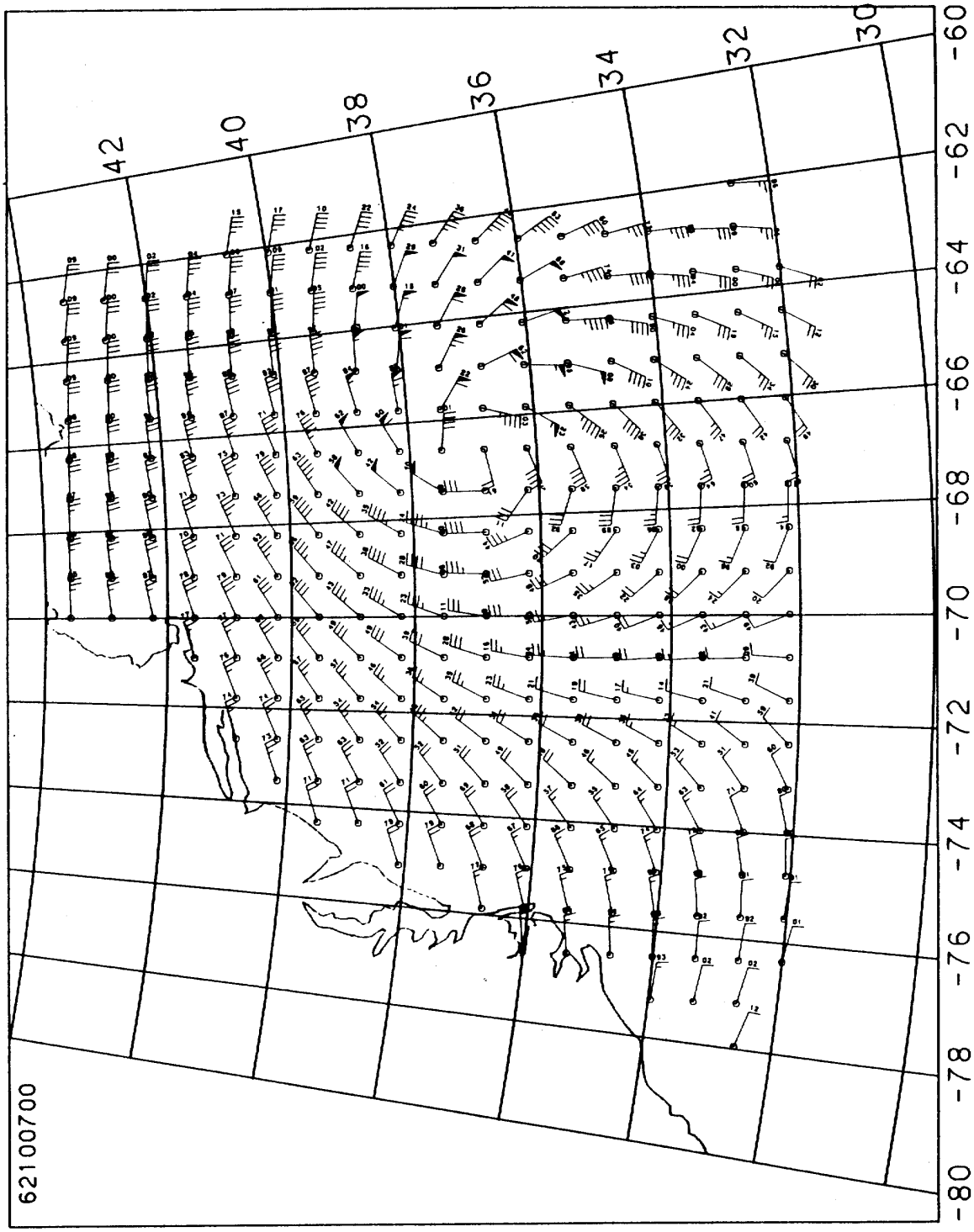
ddhh	WS	WD	U*	Hs	Tp	VMD
1113.	0.00	0.0	0.000	0.00	3.24	0.0
1114.	0.00	0.0	0.000	0.00	3.24	0.0
1115.	0.00	0.0	0.000	0.00	3.24	0.0
1116.	0.00	0.0	0.000	0.00	3.24	0.0
1117.	0.00	0.0	0.000	0.00	5.59	330.5
1118.	7.02	120.5	0.226	0.10	3.24	326.9
1119.	7.19	121.0	0.232	0.31	3.24	326.0
1120.	7.36	122.2	0.239	0.49	3.24	320.3
1121.	7.53	122.7	0.246	0.66	3.24	313.5
1122.	7.69	123.0	0.253	0.84	3.88	307.7
1123.	7.87	124.1	0.261	0.97	4.08	306.6
1200.	8.08	124.3	0.270	1.05	4.14	306.7
1201.	8.26	123.9	0.278	1.10	4.17	306.2
1202.	8.45	122.7	0.287	1.16	4.20	305.9
1203.	8.65	122.3	0.296	1.23	4.27	305.4
1204.	8.88	121.9	0.307	1.32	4.49	305.6
1205.	9.12	120.7	0.318	1.41	5.46	305.4
1206.	9.35	120.3	0.330	1.49	5.58	304.6
1207.	9.66	119.7	0.345	1.57	5.65	303.8
1208.	10.02	118.4	0.362	1.67	5.70	302.8
1209.	10.36	117.7	0.380	1.76	5.76	302.2
1210.	10.76	117.0	0.400	1.86	5.88	301.9
1211.	11.21	115.6	0.423	1.99	6.15	301.4
1212.	11.65	114.9	0.446	2.11	6.74	301.0
1213.	11.95	114.3	0.461	2.22	6.95	300.8
1214.	12.29	114.3	0.479	2.34	7.02	300.5
1215.	12.68	113.9	0.500	2.49	7.11	300.0
1216.	13.15	113.5	0.525	2.64	7.24	300.1
1217.	13.67	113.8	0.553	2.81	7.49	300.5
1218.	14.24	113.8	0.584	2.97	7.98	301.0
1219.	15.01	114.6	0.626	3.16	8.10	301.6
1220.	15.85	115.9	0.674	3.35	8.18	302.4
1221.	16.79	118.7	0.728	3.58	8.27	303.8
1222.	17.74	123.0	0.783	3.84	8.38	306.3
1223.	18.58	129.4	0.833	4.09	8.56	309.5
1300.	19.15	138.7	0.867	4.32	9.06	314.1
1301.	18.82	153.2	0.847	4.42	9.27	321.5
1302.	16.99	171.7	0.739	4.30	9.37	332.3
1303.	14.17	193.7	0.580	4.03	9.43	348.5
1304.	10.85	216.1	0.404	4.18	17.86	3.4
1305.	7.61	240.5	0.250	4.44	17.10	10.5
1306.	4.35	271.4	0.145	4.51	16.16	16.9

Storm of 60091112 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
1113.	0.00	0.0	0.000	0.00	3.24	0.0
1114.	0.00	0.0	0.000	0.00	3.24	0.0
1115.	0.00	0.0	0.000	0.00	3.24	0.0
1116.	0.00	0.0	0.000	0.00	3.24	325.4
1117.	6.90	119.4	0.222	0.08	3.24	323.3
1118.	7.07	119.9	0.228	0.29	3.24	324.1
1119.	7.24	120.3	0.234	0.48	3.24	317.7
1120.	7.40	121.5	0.241	0.64	3.24	311.5
1121.	7.56	121.9	0.248	0.82	3.24	305.9
1122.	7.76	122.2	0.256	0.95	4.07	304.7
1123.	7.96	123.1	0.265	1.03	4.13	304.7
1200.	8.16	123.2	0.273	1.08	4.17	304.7
1201.	8.35	122.7	0.282	1.13	4.19	304.5
1202.	8.56	121.5	0.292	1.20	4.24	304.0
1203.	8.79	121.0	0.302	1.28	4.38	304.1
1204.	9.02	120.6	0.313	1.38	4.92	304.4
1205.	9.25	119.4	0.325	1.46	5.55	303.7
1206.	9.50	118.9	0.337	1.54	5.62	302.9
1207.	9.84	118.1	0.354	1.63	5.68	302.1
1208.	10.19	116.7	0.371	1.72	5.73	301.3
1209.	10.58	115.8	0.391	1.82	5.82	300.9
1210.	11.02	114.9	0.413	1.94	6.03	300.4
1211.	11.47	113.3	0.437	2.06	6.48	299.8
1212.	11.96	112.4	0.462	2.19	6.92	299.4
1213.	12.32	111.6	0.481	2.31	7.01	298.8
1214.	12.75	111.2	0.503	2.45	7.08	298.4
1215.	13.25	110.5	0.530	2.61	7.18	298.3
1216.	13.80	109.8	0.560	2.77	7.38	298.4
1217.	14.43	109.6	0.594	2.95	7.77	298.7
1218.	15.21	109.2	0.638	3.14	8.06	298.9
1219.	16.21	109.8	0.694	3.35	8.16	299.2
1220.	17.47	111.1	0.767	3.61	8.25	299.8
1221.	18.87	114.1	0.850	3.91	8.37	301.5
1222.	20.34	119.4	0.940	4.25	8.58	304.3
1223.	21.62	128.0	1.020	4.61	9.17	308.4
1300.	22.50	141.6	1.077	4.89	9.33	315.3
1301.	21.05	165.0	0.984	4.91	9.44	327.0
1302.	17.53	194.0	0.771	4.74	9.51	347.5
1303.	14.04	221.7	0.573	4.59	18.03	6.0
1304.	11.09	244.7	0.417	4.84	17.44	19.0
1305.	8.22	268.9	0.276	4.96	16.23	22.9
1306.	5.35	298.1	0.173	4.88	15.96	26.2

STORM #8

Hurricane Daisy, October 1962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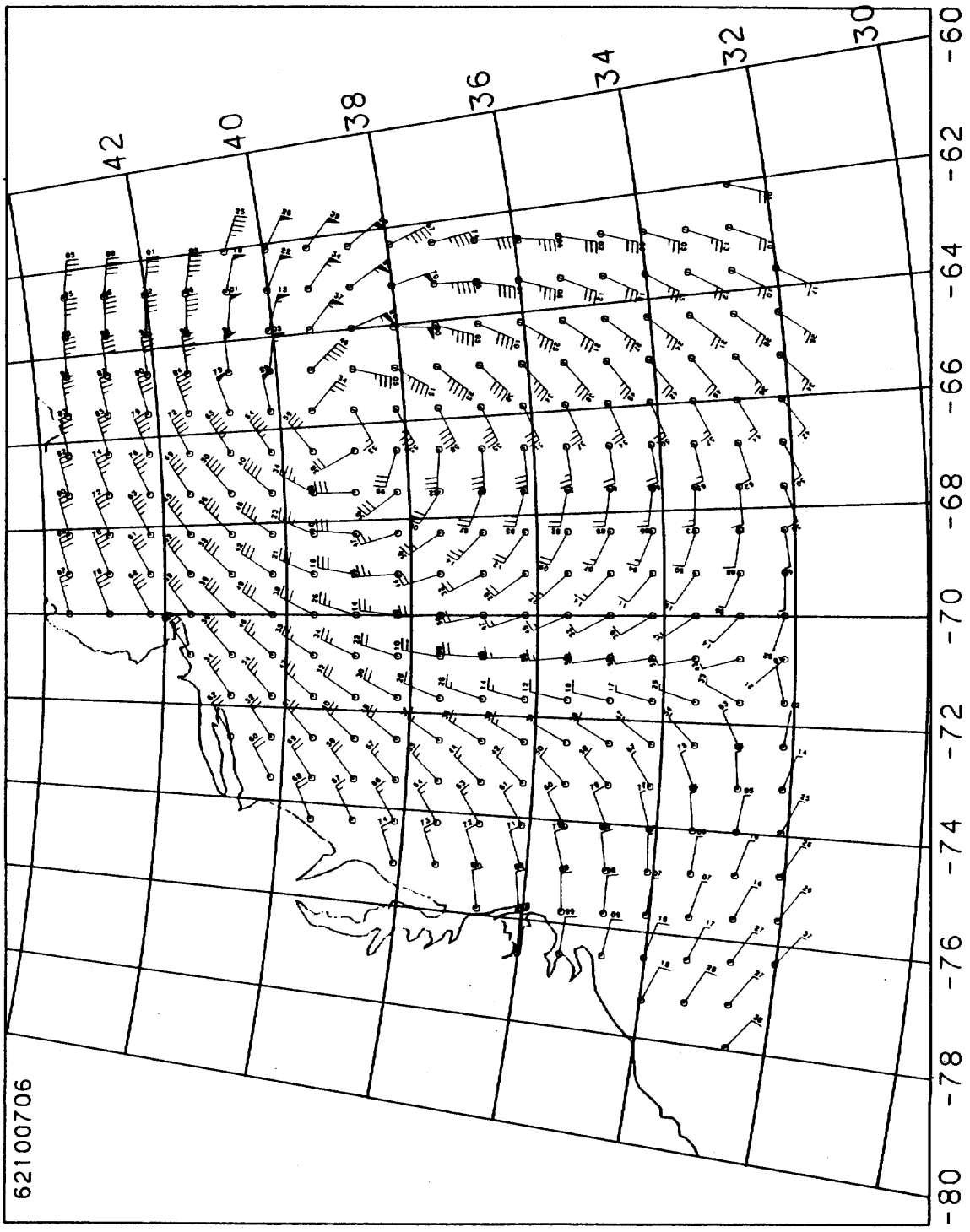

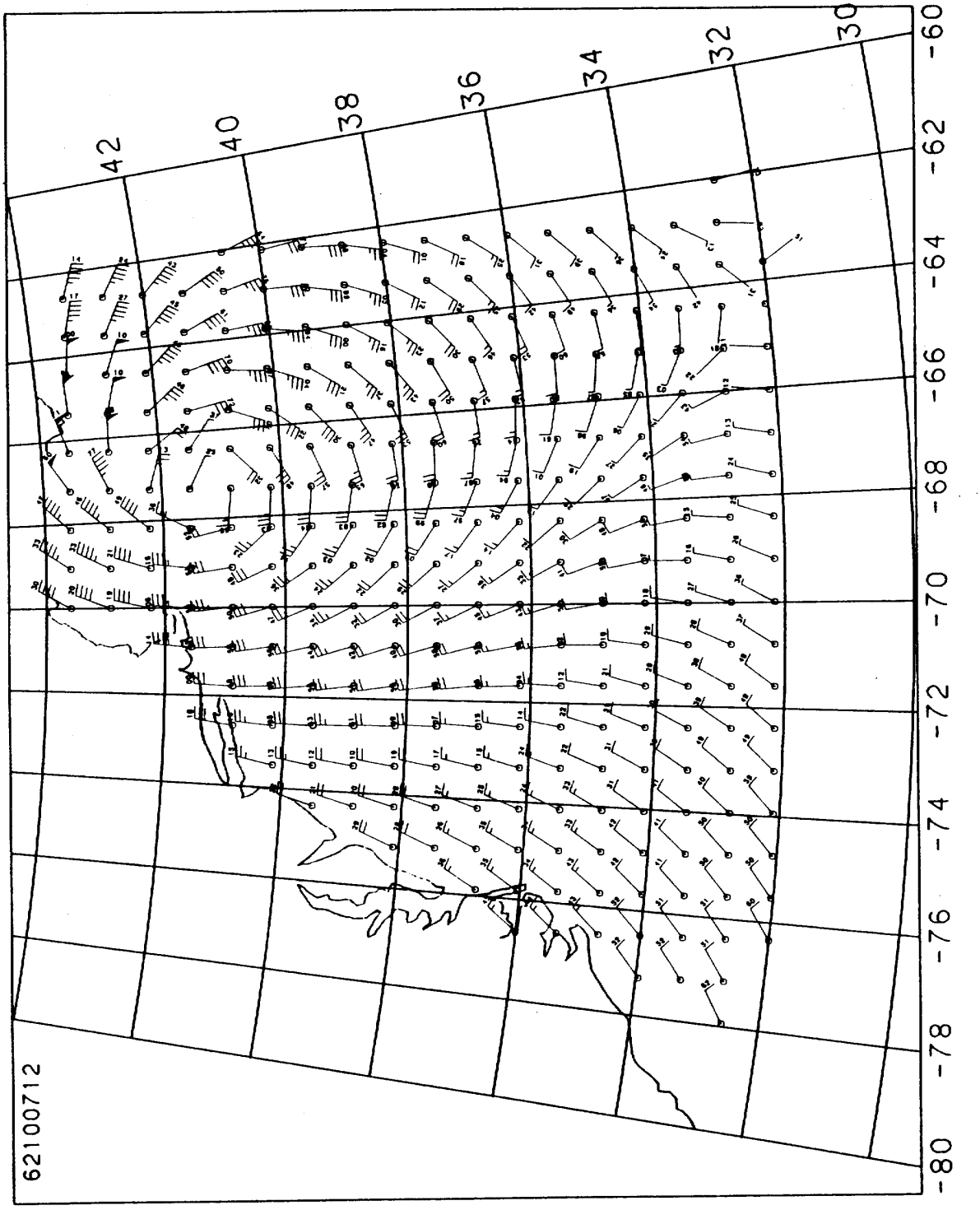
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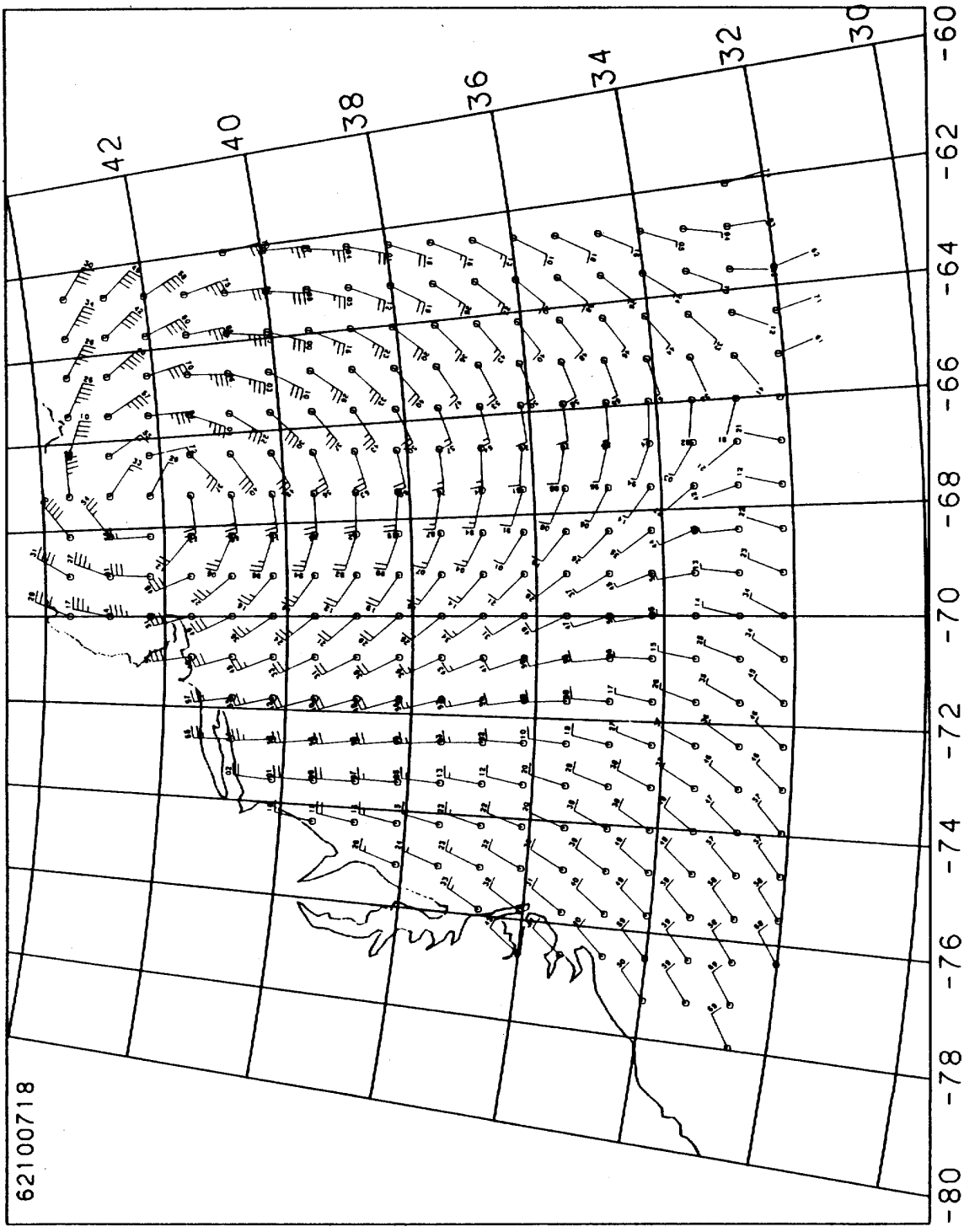
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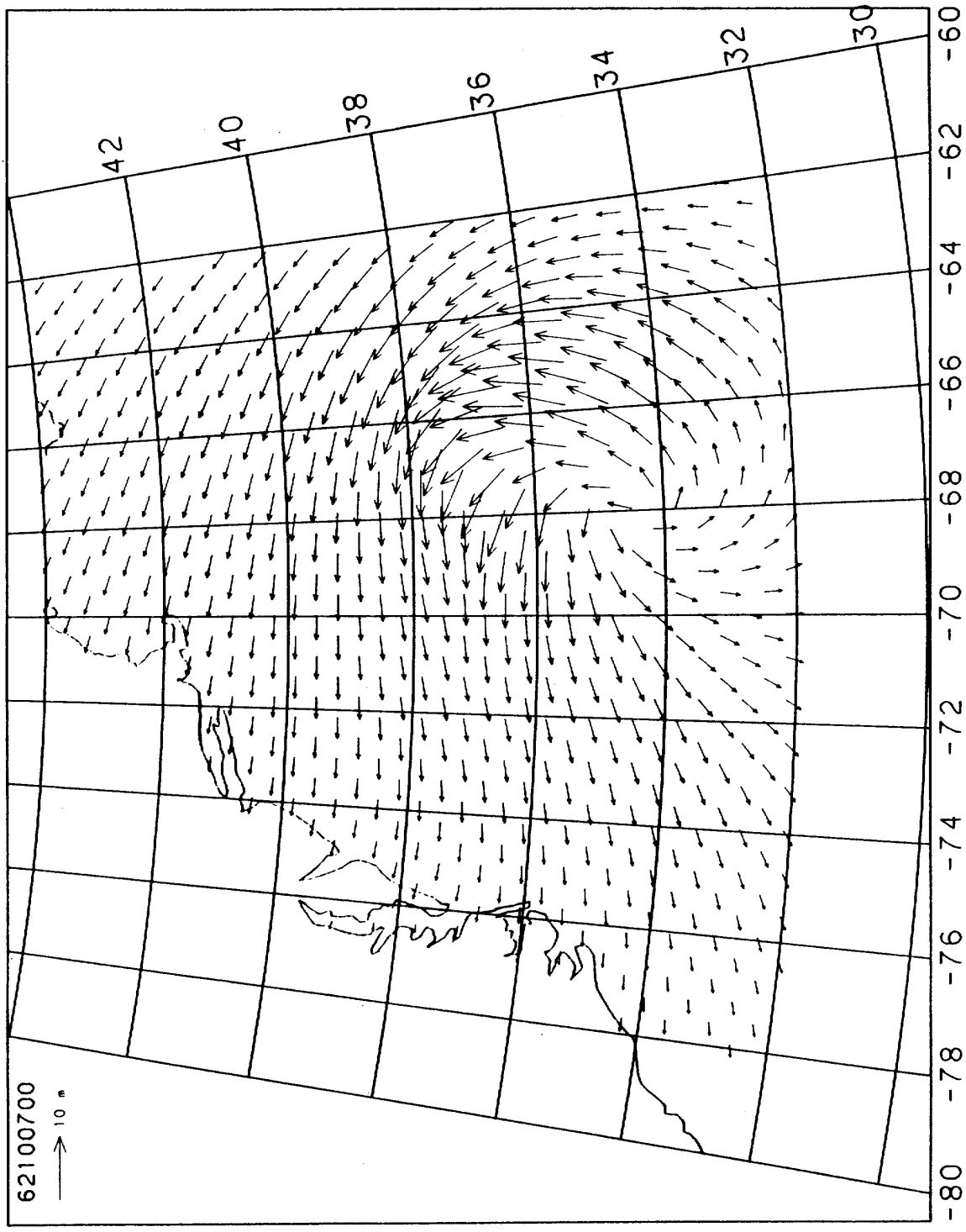
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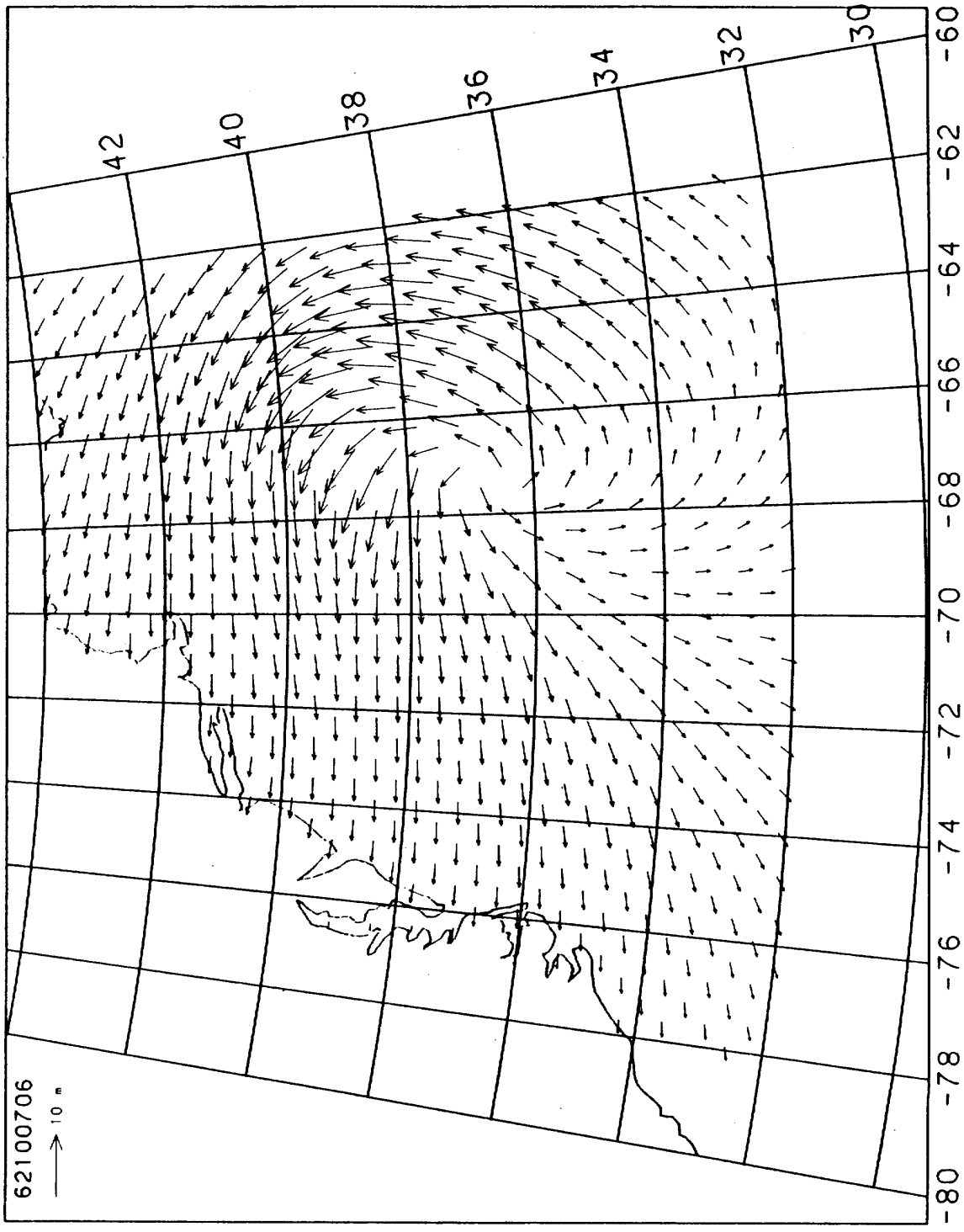

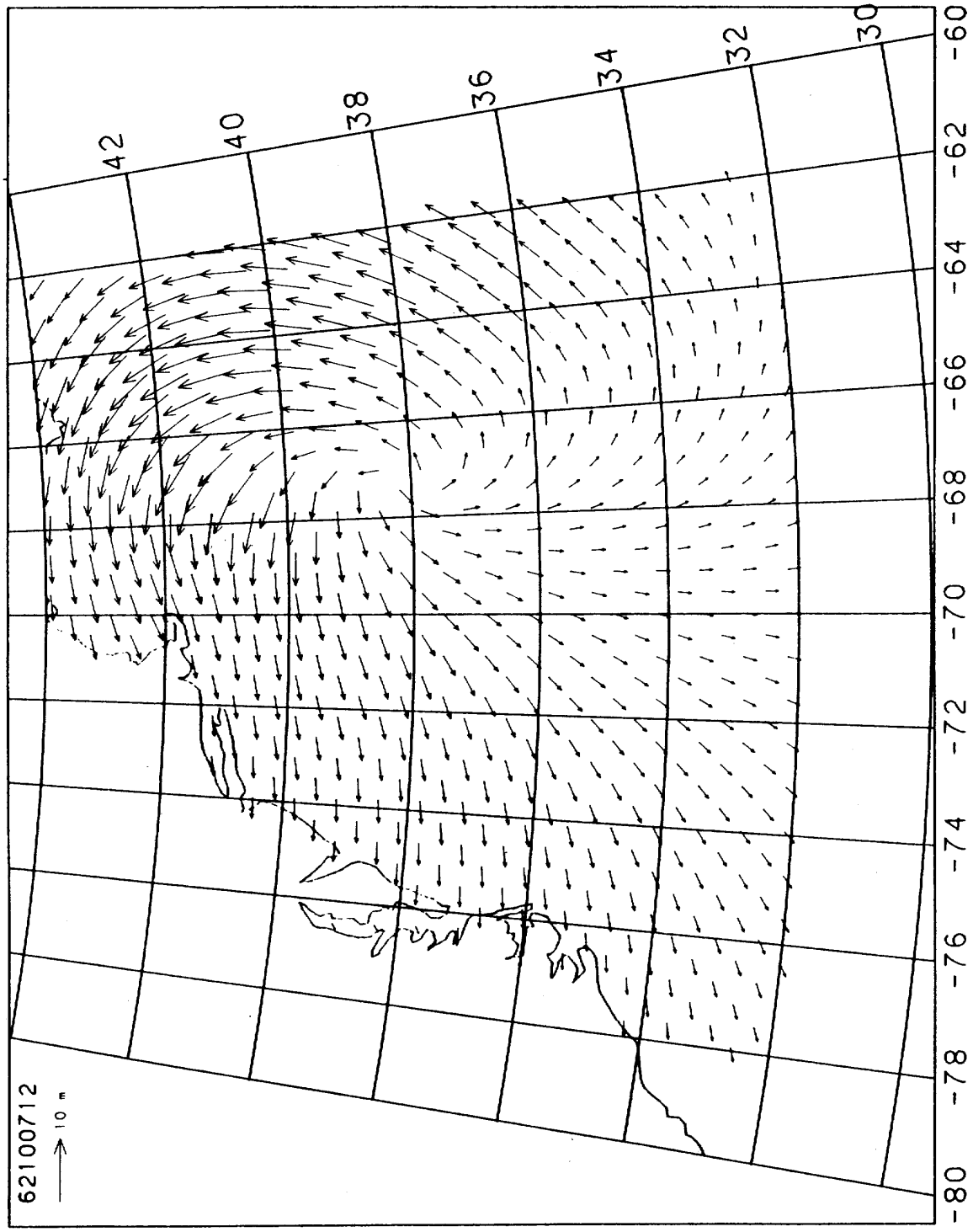
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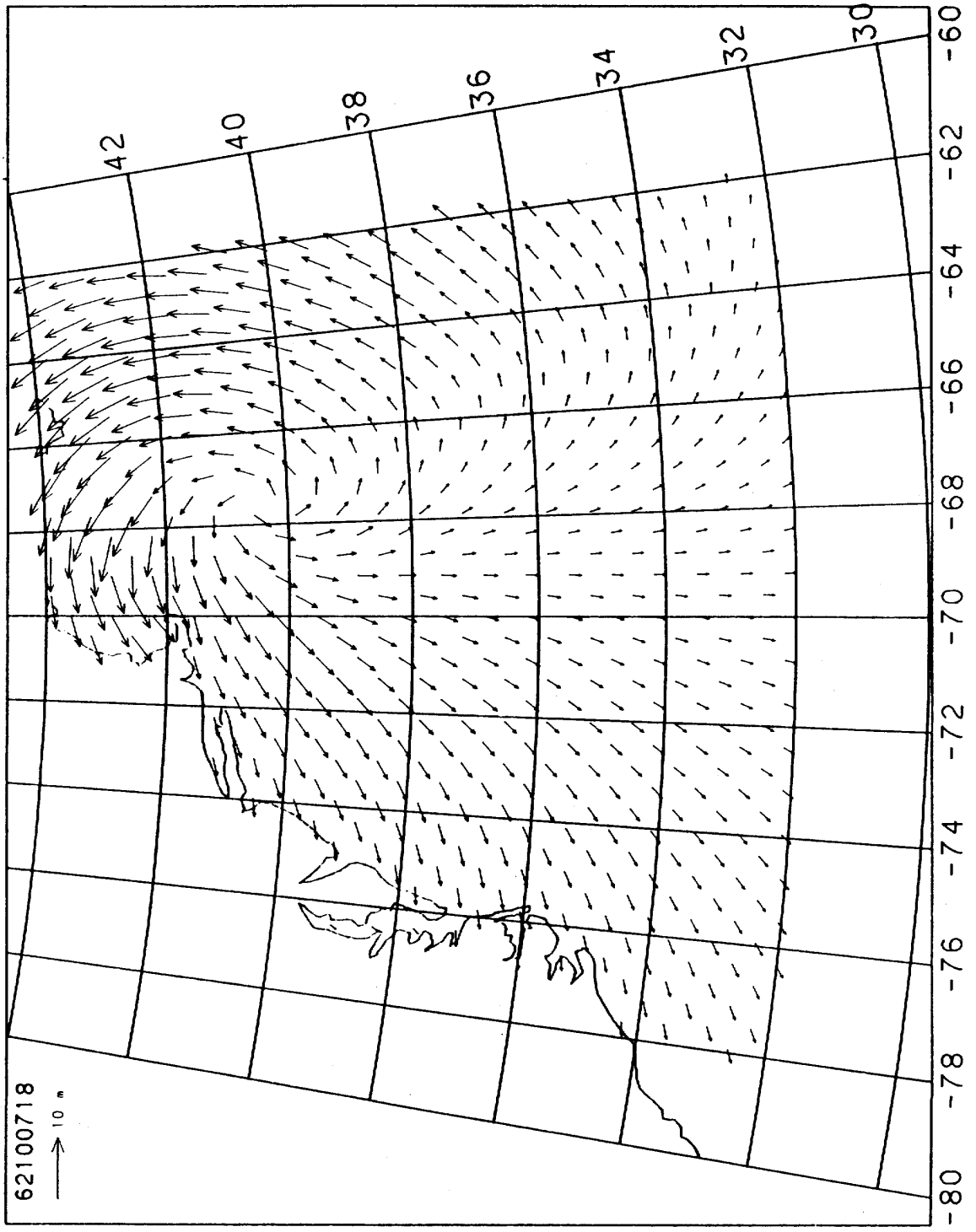

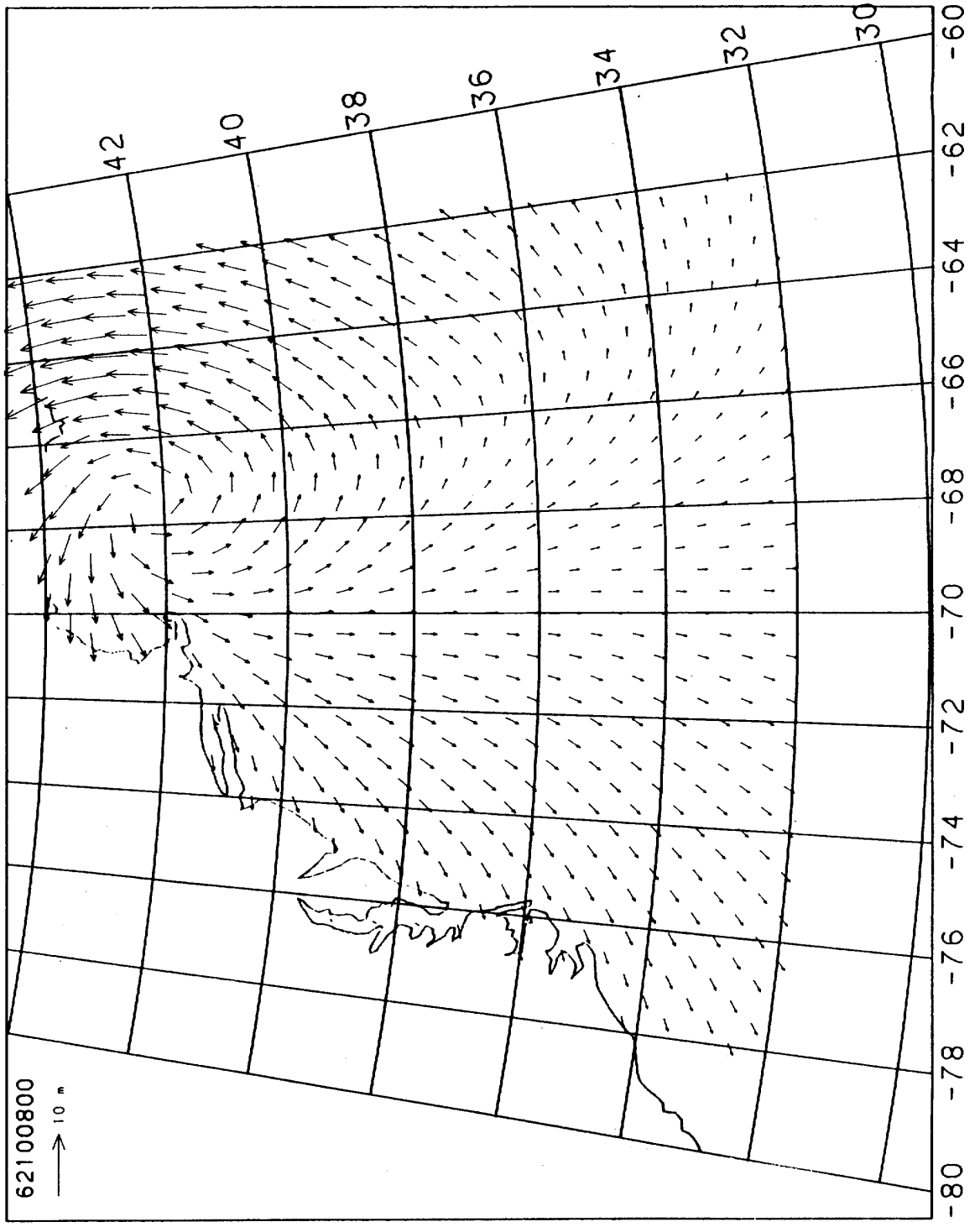
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Storm of 62100500 at grid point 383

ddhh	WS	WD	U*	Hs	Tp	VMD
501.	7.10	125.7	0.229	0.04	3.24	305.2
502.	7.12	129.7	0.230	0.11	3.24	307.2
503.	7.15	133.7	0.231	0.27	3.24	308.8
504.	7.18	136.8	0.232	0.55	3.24	312.2
505.	7.20	139.3	0.233	0.72	3.24	314.0
506.	0.00	0.0	0.000	0.78	3.24	314.8
507.	0.00	0.0	0.000	0.81	3.24	315.9
508.	0.00	0.0	0.000	0.83	3.24	316.6
509.	0.00	0.0	0.000	0.85	3.92	317.0
510.	0.00	0.0	0.000	0.87	3.96	317.4
511.	0.00	0.0	0.000	0.88	3.99	317.7
512.	0.00	0.0	0.000	0.89	4.01	318.1
513.	0.00	0.0	0.000	0.90	4.03	318.6
514.	0.00	0.0	0.000	0.91	4.05	319.1
515.	0.00	0.0	0.000	0.92	4.06	319.7
516.	0.00	0.0	0.000	0.93	4.07	320.5
517.	0.00	0.0	0.000	0.95	4.09	321.7
518.	0.00	0.0	0.000	0.97	4.12	323.1
519.	0.00	0.0	0.000	1.01	4.18	325.1
520.	8.40	142.2	0.284	1.21	4.58	327.5
521.	8.56	139.4	0.292	1.34	5.51	326.8
522.	8.70	137.5	0.298	1.41	5.59	325.3
523.	8.82	134.9	0.304	1.47	5.66	324.0
600.	8.98	132.5	0.312	1.53	5.72	322.5
601.	9.03	131.9	0.314	1.57	5.78	322.0
602.	9.10	130.6	0.317	1.61	5.81	321.2
603.	9.15	130.0	0.320	1.64	5.84	320.4
604.	9.22	129.3	0.323	1.67	5.87	319.8
605.	9.32	127.8	0.328	1.71	5.92	318.6
606.	9.41	127.1	0.332	1.75	5.98	317.6
607.	9.50	126.9	0.337	1.79	6.06	316.9
608.	9.63	125.8	0.343	1.84	6.16	315.8
609.	9.74	125.6	0.349	1.89	6.27	314.8
610.	9.88	124.7	0.356	1.95	6.39	313.9
611.	10.02	124.4	0.362	2.00	6.54	313.1
612.	10.18	123.4	0.371	2.06	6.86	312.4
613.	10.48	122.0	0.385	2.13	6.95	311.2
614.	10.77	120.6	0.401	2.22	7.07	310.5
615.	11.08	119.3	0.416	2.31	7.18	309.9
616.	11.41	117.5	0.433	2.41	7.30	309.2
617.	11.75	116.1	0.451	2.52	7.45	308.6
618.	12.11	114.7	0.470	2.63	7.61	307.5
619.	12.67	110.8	0.499	2.76	7.82	305.9
620.	13.21	107.8	0.528	2.88	8.01	304.1
621.	13.86	103.9	0.563	3.00	8.08	302.9
622.	14.53	100.1	0.600	3.13	8.13	301.9
623.	15.24	96.7	0.639	3.26	8.19	300.8
700.	16.07	92.5	0.687	3.38	8.25	298.8
701.	16.57	91.6	0.715	3.51	8.34	297.6

702.	17.21	89.7	0.752	3.67	8.41	296.3
703.	17.83	88.4	0.788	3.84	8.46	295.0
704.	18.56	86.6	0.832	4.04	8.53	293.6
705.	19.33	84.7	0.878	4.24	8.59	291.7
706.	20.11	83.4	0.926	4.48	8.73	290.3
707.	21.98	81.4	1.043	4.83	9.13	288.9
708.	23.99	81.1	1.174	5.30	9.40	287.7
709.	25.68	83.4	1.287	5.86	9.63	288.1
710.	26.92	90.0	1.373	6.56	10.44	292.2
711.	27.00	102.9	1.378	7.30	10.81	299.7
712.	24.46	123.0	1.205	7.91	11.69	311.1
713.	23.45	129.9	1.138	8.31	12.10	317.7
714.	22.59	136.8	1.082	8.53	12.81	322.7
715.	21.78	143.3	1.031	8.58	14.48	327.4
716.	21.17	149.4	0.992	8.50	13.84	331.6
717.	20.70	155.2	0.963	8.20	13.55	335.2
718.	20.32	160.5	0.939	7.78	13.25	337.7
719.	20.11	167.1	0.926	7.54	12.73	342.1
720.	19.87	173.7	0.911	7.29	12.21	347.2
721.	19.82	180.2	0.908	7.13	12.04	351.5
722.	19.80	186.4	0.907	6.90	11.94	356.0
723.	19.77	192.3	0.905	6.72	11.78	359.6
800.	19.92	197.7	0.914	6.52	11.42	2.5
801.	19.42	206.8	0.884	6.17	11.04	6.8
802.	19.00	216.0	0.858	5.79	10.71	11.8
803.	18.79	225.0	0.846	5.44	10.08	16.8
804.	18.68	233.3	0.839	5.09	9.74	22.9
805.	18.77	240.6	0.844	4.89	9.52	29.7
806.	18.90	246.7	0.852	4.76	9.35	37.2
807.	18.32	253.1	0.818	4.62	9.19	45.2
808.	17.65	258.5	0.778	4.47	8.88	53.7
809.	16.88	263.4	0.733	4.35	8.73	61.0
810.	16.00	267.7	0.682	4.24	8.67	67.7
811.	15.16	272.2	0.635	4.12	8.63	74.5
812.	14.27	276.0	0.586	3.95	8.64	80.3

Storm of 62100500 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
501.	7.27	124.9	0.236	0.05	3.24	302.6
502.	7.30	128.6	0.237	0.13	3.24	303.2
503.	7.32	132.2	0.238	0.31	3.24	303.6
504.	7.34	135.7	0.238	0.61	3.24	309.7
505.	7.34	138.7	0.238	0.79	3.24	311.8
506.	7.36	141.4	0.239	0.92	4.03	313.8
507.	7.33	144.7	0.238	0.97	4.10	315.9
508.	0.00	0.0	0.000	0.99	4.11	316.6
509.	0.00	0.0	0.000	1.00	4.13	317.4
510.	0.00	0.0	0.000	1.02	4.14	318.8
511.	7.10	160.6	0.229	1.03	4.18	323.1
512.	6.99	165.7	0.225	1.03	4.20	325.8
513.	7.17	162.8	0.232	1.06	4.23	327.0
514.	7.39	158.9	0.240	1.09	4.28	328.0
515.	7.57	156.2	0.248	1.13	4.37	328.9
516.	7.79	152.7	0.257	1.19	4.53	329.5
517.	7.97	150.2	0.265	1.25	4.91	329.2
518.	8.17	147.0	0.274	1.30	5.49	327.9
519.	8.35	144.7	0.282	1.36	5.56	326.6
520.	8.55	141.5	0.291	1.42	5.62	325.1
521.	8.78	137.9	0.302	1.49	5.69	323.4
522.	8.95	135.3	0.310	1.55	5.75	321.8
523.	9.12	132.0	0.319	1.61	5.81	320.2
600.	9.28	129.5	0.326	1.67	5.88	318.8
601.	9.35	128.7	0.330	1.72	5.94	317.8
602.	9.45	127.0	0.335	1.76	6.02	316.7
603.	9.54	126.0	0.339	1.80	6.11	315.9
604.	9.63	125.0	0.343	1.84	6.21	315.1
605.	9.76	123.3	0.349	1.89	6.30	313.9
606.	9.88	122.2	0.356	1.93	6.41	312.2
607.	9.99	121.7	0.361	1.98	6.56	311.2
608.	10.15	120.4	0.369	2.05	6.80	310.1
609.	10.31	119.7	0.377	2.11	6.94	309.2
610.	10.50	118.5	0.387	2.18	7.03	308.5
611.	10.64	118.1	0.394	2.24	7.12	308.1
612.	10.88	116.6	0.406	2.31	7.21	307.4
613.	11.23	114.7	0.424	2.41	7.34	306.2
614.	11.59	112.9	0.443	2.54	7.52	304.5
615.	11.95	111.3	0.461	2.67	7.79	302.9
616.	12.34	109.3	0.482	2.80	8.05	301.7
617.	12.73	107.6	0.503	2.93	8.18	300.9
618.	13.11	106.2	0.523	3.05	8.30	300.2
619.	13.80	101.7	0.560	3.19	8.42	299.2
620.	14.47	97.9	0.597	3.35	8.55	298.2
621.	15.27	93.3	0.641	3.50	8.66	296.7
622.	16.14	88.4	0.690	3.64	8.74	294.4
623.	17.06	84.0	0.743	3.81	8.77	292.5
700.	18.16	78.8	0.808	4.00	8.82	290.8
701.	18.80	76.9	0.846	4.17	8.93	288.2

702.	19.64	74.0	0.897	4.38	9.07	286.2
703.	20.41	71.6	0.945	4.62	9.22	284.6
704.	21.17	69.0	0.992	4.89	9.40	282.2
705.	21.88	66.0	1.037	5.18	9.53	280.6
706.	22.35	63.5	1.067	5.48	9.74	279.2
707.	24.09	62.2	1.180	5.95	10.31	276.5
708.	24.69	66.8	1.221	6.56	10.69	278.4
709.	18.97	88.6	0.857	6.75	11.01	284.8
710.	9.30	142.5	0.327	7.13	11.66	293.2
711.	4.26	143.8	0.142	7.73	12.62	303.6
712.	5.17	166.3	0.168	7.97	13.30	311.5
713.	8.41	204.9	0.285	7.34	13.35	319.1
714.	10.94	220.8	0.409	5.67	13.31	325.4
715.	12.76	227.8	0.504	4.67	13.49	331.9
716.	14.04	231.2	0.573	4.27	13.46	342.9
717.	14.85	233.2	0.618	4.14	13.26	352.4
718.	15.38	234.3	0.647	4.07	12.60	0.5
719.	15.79	236.9	0.671	4.05	12.07	7.6
720.	16.05	238.8	0.685	4.00	11.94	14.1
721.	16.28	240.2	0.698	3.96	11.87	20.9
722.	16.60	241.2	0.717	3.93	8.25	28.5
723.	16.78	241.9	0.727	3.91	8.07	35.2
800.	17.03	242.0	0.742	3.92	7.99	41.4
801.	16.90	246.1	0.734	3.90	7.93	48.4
802.	16.69	249.9	0.722	3.89	7.95	55.0
803.	16.52	252.9	0.712	3.87	8.02	61.0
804.	16.27	255.7	0.698	3.85	8.08	67.3
805.	16.13	257.8	0.690	3.82	8.16	73.8
806.	15.90	259.7	0.677	3.82	8.21	78.6
807.	15.05	263.3	0.629	3.77	8.25	83.3
808.	14.19	266.5	0.581	3.72	8.29	86.7
809.	13.30	269.2	0.533	3.60	8.29	90.1
810.	12.41	271.7	0.485	3.44	8.22	93.2
811.	11.52	274.1	0.439	3.25	8.15	97.8
812.	10.66	276.2	0.395	3.04	8.03	101.3

Storm of 62100500 at grid point 500

ddhh	WS	WD	U*	Hs	Tp	VMD
501.	7.08	125.6	0.228	0.05	3.24	303.0
502.	7.12	129.6	0.230	0.12	3.24	303.6
503.	7.14	133.1	0.230	0.30	3.24	303.9
504.	7.15	135.6	0.231	0.59	3.24	309.9
505.	0.00	0.0	0.000	0.68	3.24	311.5
506.	0.00	0.0	0.000	0.74	3.24	312.1
507.	0.00	0.0	0.000	0.77	3.24	312.5
508.	0.00	0.0	0.000	0.80	3.24	313.1
509.	0.00	0.0	0.000	0.81	3.24	313.8
510.	0.00	0.0	0.000	0.83	3.90	314.5
511.	0.00	0.0	0.000	0.85	3.94	315.1
512.	0.00	0.0	0.000	0.87	3.98	315.6
513.	0.00	0.0	0.000	0.88	4.01	316.2
514.	0.00	0.0	0.000	0.90	4.03	316.7
515.	0.00	0.0	0.000	0.92	4.05	317.4
516.	0.00	0.0	0.000	0.93	4.07	318.3
517.	0.00	0.0	0.000	0.96	4.11	320.0
518.	0.00	0.0	0.000	1.00	4.16	322.1
519.	0.00	0.0	0.000	1.08	4.31	325.0
520.	8.33	141.3	0.281	1.24	4.80	326.3
521.	8.52	138.4	0.290	1.35	5.52	325.1
522.	8.67	136.3	0.297	1.42	5.60	323.6
523.	8.82	133.6	0.304	1.48	5.68	322.1
600.	8.96	131.4	0.311	1.54	5.75	320.8
601.	9.00	130.8	0.312	1.57	5.80	320.2
602.	9.06	129.4	0.316	1.61	5.82	319.1
603.	9.13	128.6	0.319	1.64	5.86	318.4
604.	9.19	127.9	0.322	1.68	5.91	317.6
605.	9.27	126.3	0.326	1.72	5.97	316.5
606.	9.36	125.4	0.330	1.76	6.04	315.6
607.	9.44	125.1	0.334	1.79	6.11	315.0
608.	9.56	124.0	0.340	1.84	6.19	313.9
609.	9.67	123.6	0.345	1.89	6.28	312.7
610.	9.80	122.6	0.351	1.94	6.41	311.6
611.	9.90	122.4	0.357	1.98	6.65	310.4
612.	10.09	121.0	0.366	2.04	6.88	309.6
613.	10.39	119.4	0.381	2.13	6.98	308.7
614.	10.67	118.1	0.396	2.21	7.09	308.0
615.	10.96	116.9	0.410	2.31	7.20	307.3
616.	11.31	114.7	0.428	2.41	7.34	306.3
617.	11.64	113.1	0.445	2.53	7.51	305.0
618.	11.97	111.7	0.463	2.66	7.72	303.3
619.	12.53	107.6	0.491	2.80	8.01	301.6
620.	13.06	104.1	0.520	2.94	8.13	299.9
621.	13.66	100.0	0.553	3.07	8.25	298.8
622.	14.31	95.8	0.588	3.21	8.36	297.6
623.	14.95	92.2	0.623	3.32	8.46	295.9
700.	15.71	87.6	0.666	3.45	8.54	294.1
701.	16.14	85.9	0.691	3.60	8.61	292.9

702.	16.69	83.4	0.722	3.74	8.61	291.2
703.	17.21	81.3	0.752	3.90	8.65	289.9
704.	17.75	79.2	0.784	4.07	8.74	288.4
705.	18.39	76.5	0.821	4.22	8.86	285.8
706.	19.01	74.0	0.859	4.42	9.01	284.1
707.	20.79	69.6	0.968	4.72	9.29	281.7
708.	22.72	66.4	1.091	5.12	9.45	279.3
709.	24.57	65.6	1.212	5.61	9.65	278.3
710.	26.17	68.7	1.321	6.28	10.37	278.0
711.	25.68	80.9	1.287	6.89	10.75	281.9
712.	17.62	117.1	0.776	6.79	11.48	296.1
713.	13.70	130.5	0.554	6.98	11.83	301.9
714.	10.52	140.9	0.388	7.26	12.19	306.6
715.	7.97	146.9	0.265	7.47	13.08	313.7
716.	6.16	148.2	0.197	7.54	13.44	317.9
717.	5.09	146.2	0.165	7.21	13.25	320.4
718.	5.06	147.5	0.164	6.37	12.64	320.8
719.	4.76	154.8	0.156	5.48	12.49	322.7
720.	5.44	172.8	0.175	4.92	12.32	323.8
721.	7.16	198.2	0.231	4.39	12.14	330.2
722.	9.64	219.4	0.344	4.01	12.01	338.7
723.	11.49	233.8	0.437	3.78	11.94	348.9
800.	13.12	242.0	0.523	3.72	11.76	358.9
801.	13.77	253.3	0.558	3.60	11.68	8.4
802.	14.59	262.5	0.603	3.53	9.69	20.0
803.	15.43	269.0	0.650	3.52	8.84	33.3
804.	16.02	273.4	0.684	3.58	8.38	47.5
805.	16.44	275.8	0.708	3.64	7.83	58.7
806.	16.55	277.8	0.714	3.67	7.63	67.7
807.	15.85	281.6	0.674	3.65	7.58	76.0
808.	15.15	285.4	0.634	3.58	7.59	83.8
809.	14.35	288.7	0.590	3.46	7.65	91.6
810.	13.48	291.6	0.543	3.35	7.78	97.8
811.	12.58	294.3	0.494	3.23	7.96	103.2
812.	11.65	296.8	0.446	3.05	7.88	107.8

Storm of 62100500 at grid point 617

ddhh	WS	WD	U*	Hs	Tp	VMD
501.	7.07	125.5	0.228	0.05	3.24	302.9
502.	7.09	129.3	0.229	0.12	3.24	303.5
503.	7.11	132.0	0.229	0.30	3.24	303.7
504.	7.12	134.5	0.230	0.59	3.24	309.3
505.	0.00	0.0	0.000	0.68	3.24	310.7
506.	0.00	0.0	0.000	0.68	3.24	310.7
507.	0.00	0.0	0.000	0.70	3.24	311.1
508.	0.00	0.0	0.000	0.73	3.24	311.5
509.	0.00	0.0	0.000	0.75	3.24	312.0
510.	0.00	0.0	0.000	0.77	3.24	312.4
511.	0.00	0.0	0.000	0.80	3.24	313.0
512.	0.00	0.0	0.000	0.82	3.90	313.5
513.	0.00	0.0	0.000	0.85	3.97	315.7
514.	0.00	0.0	0.000	0.88	4.01	317.3
515.	0.00	0.0	0.000	0.91	4.04	318.8
516.	0.00	0.0	0.000	0.94	4.08	320.4
517.	0.00	0.0	0.000	0.98	4.11	322.0
518.	0.00	0.0	0.000	1.04	4.21	324.6
519.	0.00	0.0	0.000	1.10	4.35	326.2
520.	8.25	140.6	0.277	1.24	4.77	326.0
521.	8.44	137.4	0.286	1.34	5.50	324.1
522.	8.60	135.3	0.294	1.41	5.59	322.4
523.	8.78	132.4	0.302	1.47	5.67	320.6
600.	8.91	130.4	0.308	1.53	5.73	319.4
601.	8.95	129.8	0.310	1.56	5.78	318.6
602.	9.01	128.2	0.313	1.60	5.81	317.4
603.	9.06	127.4	0.315	1.63	5.86	316.6
604.	9.12	126.5	0.318	1.67	5.93	315.6
605.	9.20	124.9	0.322	1.71	5.98	314.7
606.	9.26	124.0	0.325	1.74	6.03	314.1
607.	9.34	123.5	0.329	1.77	6.07	313.4
608.	9.45	122.4	0.334	1.81	6.13	312.2
609.	9.53	122.0	0.338	1.85	6.21	311.0
610.	9.66	120.8	0.345	1.90	6.32	309.4
611.	9.76	120.5	0.350	1.95	6.52	308.5
612.	9.92	119.1	0.358	2.00	6.77	307.8
613.	10.19	117.6	0.371	2.07	6.92	306.8
614.	10.46	116.3	0.385	2.15	7.03	306.0
615.	10.75	114.7	0.399	2.25	7.15	305.1
616.	11.09	112.3	0.417	2.36	7.30	303.6
617.	11.40	110.7	0.433	2.49	7.49	301.9
618.	11.71	109.2	0.449	2.61	7.71	300.2
619.	12.21	105.2	0.475	2.74	8.01	298.3
620.	12.71	101.4	0.502	2.87	8.13	297.0
621.	13.28	97.0	0.532	3.01	8.24	295.7
622.	13.87	92.4	0.564	3.14	8.35	294.3
623.	14.44	88.4	0.595	3.26	8.48	292.1
700.	15.07	83.7	0.630	3.41	8.59	290.1
701.	15.40	81.6	0.649	3.56	8.70	288.5

702.	15.79	79.0	0.671	3.70	8.84	287.2
703.	16.15	76.5	0.691	3.81	9.04	285.1
704.	16.54	74.0	0.713	3.94	9.18	283.5
705.	16.99	70.7	0.739	4.08	9.24	281.8
706.	17.37	67.7	0.761	4.22	9.20	279.7
707.	18.91	61.2	0.853	4.42	9.34	276.4
708.	20.55	55.1	0.953	4.69	9.45	273.2
709.	22.18	50.0	1.056	5.04	9.58	270.0
710.	23.46	46.8	1.139	5.45	9.77	267.1
711.	24.14	46.5	1.184	5.87	10.36	264.1
712.	21.44	56.6	1.009	6.23	10.65	265.9
713.	18.71	64.0	0.841	6.42	10.91	268.7
714.	14.96	73.4	0.624	6.62	11.21	277.4
715.	11.41	80.6	0.433	7.13	11.63	285.1
716.	8.15	85.9	0.273	7.54	12.82	290.9
717.	5.58	86.4	0.179	7.47	12.98	295.6
718.	3.77	82.8	0.129	7.03	12.43	296.6
719.	2.27	27.9	0.084	6.28	12.24	295.8
720.	4.22	334.6	0.141	5.40	12.10	294.3
721.	7.31	318.0	0.237	4.60	12.06	291.2
722.	10.04	309.8	0.364	3.83	12.08	287.6
723.	11.78	304.9	0.452	3.50	11.88	279.0
800.	13.26	301.2	0.531	3.21	11.87	261.3
801.	14.32	303.1	0.588	3.10	11.85	196.3
802.	14.69	303.8	0.609	3.07	11.76	155.2
803.	14.71	303.4	0.610	3.07	7.04	144.9
804.	14.72	303.2	0.610	3.06	7.04	140.0
805.	14.57	302.5	0.602	3.03	7.03	136.2
806.	14.38	301.7	0.592	3.00	7.03	133.6
807.	13.59	303.9	0.549	2.95	7.08	133.0
808.	12.73	305.8	0.502	2.88	7.12	133.1
809.	11.79	307.5	0.453	2.76	7.12	133.9
810.	10.79	308.9	0.401	2.60	7.08	135.2
811.	9.92	310.8	0.358	2.45	7.02	137.6
812.	9.04	312.9	0.314	2.27	6.92	140.2

Storm of 62100500 at grid point 691

ddhh	WS	WD	U*	Hs	Tp	VMD
501.	7.23	124.4	0.234	0.05	3.24	302.0
502.	7.25	127.9	0.235	0.13	3.24	302.6
503.	7.25	131.4	0.235	0.31	3.24	303.0
504.	7.26	134.0	0.235	0.61	3.24	308.6
505.	7.26	136.7	0.235	0.77	3.24	310.6
506.	7.26	139.5	0.235	0.90	4.02	312.6
507.	7.21	143.2	0.233	0.95	4.09	314.6
508.	0.00	0.0	0.000	0.97	4.10	315.2
509.	0.00	0.0	0.000	0.98	4.11	315.8
510.	7.00	155.5	0.225	0.99	4.15	320.4
511.	6.89	160.7	0.221	1.01	4.17	322.8
512.	6.77	166.4	0.217	0.99	4.19	326.0
513.	6.95	163.2	0.223	1.00	4.20	326.6
514.	7.16	159.0	0.232	1.03	4.23	327.7
515.	7.35	156.0	0.239	1.07	4.28	328.2
516.	7.57	152.2	0.248	1.12	4.38	328.5
517.	7.76	149.4	0.256	1.18	4.56	328.4
518.	7.98	146.0	0.266	1.24	4.97	327.0
519.	8.17	143.4	0.274	1.30	5.50	325.4
520.	8.39	139.9	0.284	1.37	5.57	323.4
521.	8.62	136.2	0.294	1.44	5.63	321.3
522.	8.83	133.5	0.304	1.51	5.70	319.3
523.	9.01	130.0	0.313	1.57	5.77	317.4
600.	9.18	127.5	0.321	1.63	5.84	315.7
601.	9.21	126.6	0.323	1.68	5.92	314.5
602.	9.30	124.7	0.327	1.72	6.01	313.6
603.	9.36	123.5	0.330	1.76	6.09	312.9
604.	9.44	122.3	0.334	1.79	6.15	312.0
605.	9.56	120.3	0.340	1.84	6.22	309.9
606.	9.67	119.0	0.345	1.89	6.33	308.3
607.	9.74	118.5	0.349	1.93	6.48	307.2
608.	9.89	116.9	0.356	1.98	6.72	306.2
609.	10.01	116.1	0.362	2.03	6.88	305.6
610.	10.16	114.9	0.369	2.08	6.94	304.9
611.	10.29	114.0	0.376	2.13	7.00	304.3
612.	10.49	112.2	0.386	2.20	7.09	303.1
613.	10.80	110.3	0.402	2.30	7.20	301.4
614.	11.11	108.6	0.418	2.42	7.33	299.4
615.	11.42	106.8	0.433	2.53	7.49	297.9
616.	11.78	104.4	0.452	2.65	7.70	296.6
617.	12.10	102.6	0.469	2.76	7.99	295.8
618.	12.43	100.7	0.487	2.88	8.16	294.9
619.	13.01	95.7	0.518	3.03	8.33	293.1
620.	13.57	91.2	0.548	3.20	8.49	291.1
621.	14.20	86.2	0.582	3.36	8.65	288.6
622.	14.85	81.0	0.618	3.52	8.80	286.9
623.	15.48	76.1	0.653	3.66	8.96	285.7
700.	16.18	70.5	0.692	3.76	9.19	283.3
701.	16.53	67.6	0.713	3.90	9.32	281.2

702.	16.93	64.1	0.736	4.03	9.29	279.1
703.	17.23	60.8	0.754	4.13	9.30	275.9
704.	17.42	57.5	0.764	4.24	9.33	273.3
705.	17.54	53.6	0.771	4.31	9.25	270.2
706.	17.44	50.0	0.766	4.46	9.39	268.9
707.	18.63	42.3	0.836	4.64	9.58	265.6
708.	19.61	34.7	0.896	4.84	9.75	262.8
709.	20.07	27.6	0.924	5.04	10.02	259.9
710.	19.63	20.9	0.897	5.22	10.20	258.5
711.	18.26	13.9	0.814	5.18	14.73	257.5
712.	15.68	4.4	0.664	5.20	14.39	263.0
713.	14.50	358.4	0.598	5.57	13.59	268.7
714.	13.62	350.6	0.550	5.75	13.14	269.5
715.	13.22	342.4	0.529	5.89	12.20	267.9
716.	12.95	333.5	0.514	5.75	12.07	267.5
717.	12.94	324.8	0.514	5.45	11.90	262.2
718.	13.10	317.3	0.522	4.93	11.23	250.2
719.	13.43	310.1	0.540	4.19	11.06	231.5
720.	13.85	305.1	0.562	3.90	10.81	208.9
721.	14.09	300.9	0.576	3.64	10.86	191.4
722.	14.30	297.3	0.587	3.51	10.11	177.5
723.	14.41	295.0	0.593	3.38	10.00	164.4
800.	14.46	292.2	0.596	3.29	9.38	154.8
801.	13.98	292.8	0.570	3.20	9.14	149.2
802.	13.47	293.2	0.542	3.12	7.91	145.0
803.	12.98	291.9	0.516	3.04	7.61	141.1
804.	12.48	290.6	0.489	2.94	7.50	138.6
805.	12.30	289.0	0.480	2.87	7.39	134.9
806.	12.11	287.5	0.470	2.81	7.32	131.9
807.	11.23	289.7	0.424	2.72	7.42	131.8
808.	10.34	292.1	0.378	2.57	7.46	133.2
809.	9.50	293.7	0.337	2.43	7.50	135.2
810.	8.59	295.3	0.293	2.32	7.39	137.8
811.	7.60	296.6	0.249	2.20	7.35	139.7
812.	6.69	297.3	0.214	2.08	7.22	141.6

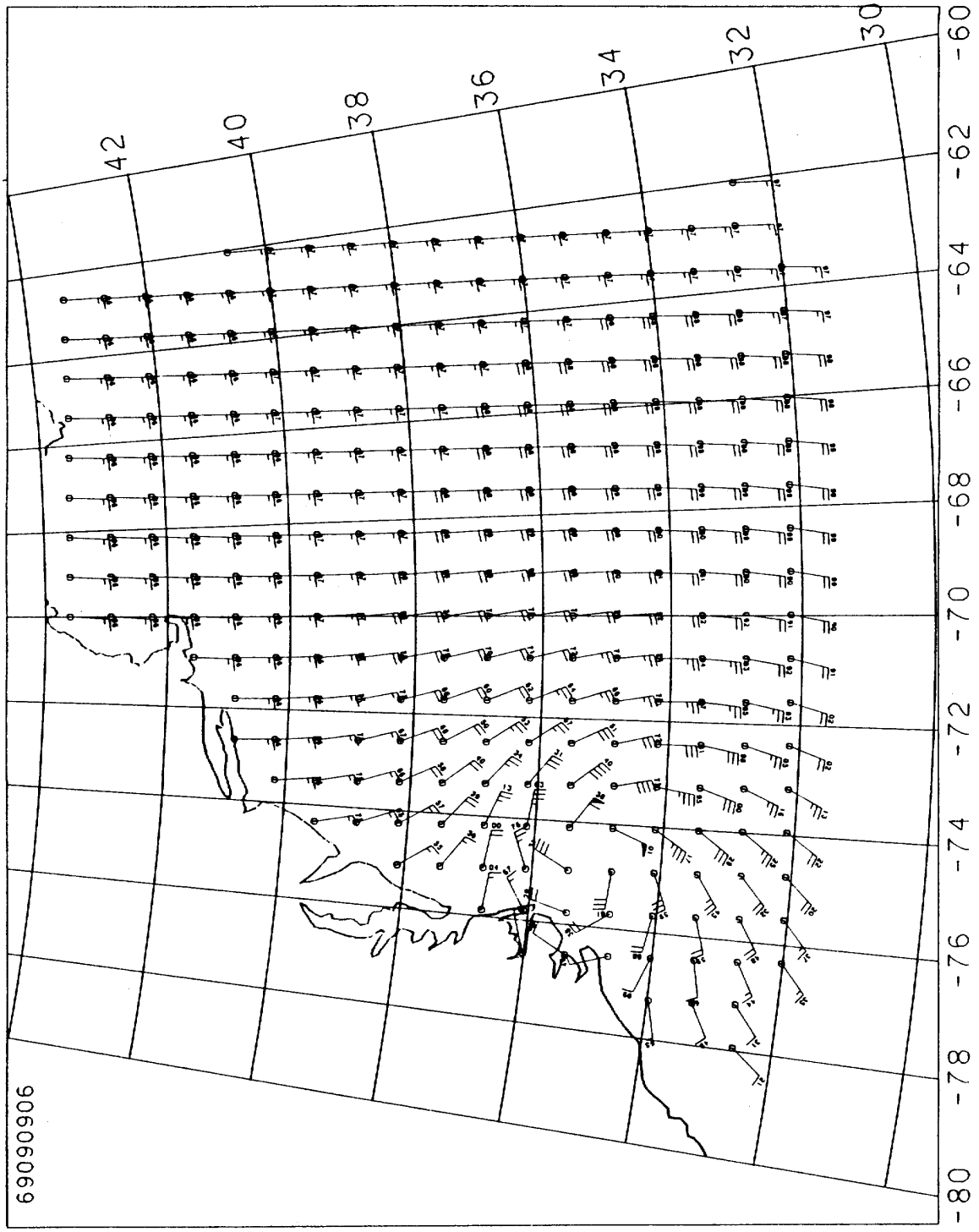
Storm of 62100500 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
501.	7.05	125.5	0.227	0.05	3.24	302.8
502.	7.07	128.7	0.228	0.12	3.24	303.3
503.	7.08	131.2	0.228	0.30	3.24	303.5
504.	0.00	0.0	0.000	0.45	3.24	305.4
505.	0.00	0.0	0.000	0.50	3.24	308.7
506.	0.00	0.0	0.000	0.54	3.24	310.1
507.	0.00	0.0	0.000	0.58	3.24	310.6
508.	0.00	0.0	0.000	0.61	3.24	311.0
509.	0.00	0.0	0.000	0.64	3.24	311.3
510.	0.00	0.0	0.000	0.68	3.24	311.6
511.	0.00	0.0	0.000	0.71	3.24	312.1
512.	0.00	0.0	0.000	0.75	3.24	312.6
513.	0.00	0.0	0.000	0.79	3.90	315.1
514.	0.00	0.0	0.000	0.85	4.00	318.7
515.	0.00	0.0	0.000	0.90	4.06	321.5
516.	0.00	0.0	0.000	0.95	4.11	323.8
517.	0.00	0.0	0.000	1.00	4.17	325.7
518.	0.00	0.0	0.000	1.05	4.23	327.0
519.	7.96	143.5	0.265	1.17	4.46	326.8
520.	8.17	140.1	0.274	1.26	4.97	325.3
521.	8.38	136.9	0.283	1.33	5.49	323.4
522.	8.55	134.6	0.291	1.40	5.58	321.8
523.	8.73	131.7	0.300	1.46	5.65	319.8
600.	8.88	129.6	0.307	1.51	5.71	318.5
601.	8.89	129.2	0.307	1.55	5.76	317.6
602.	8.95	127.6	0.310	1.58	5.79	316.3
603.	9.00	126.7	0.313	1.62	5.85	315.4
604.	9.04	125.8	0.315	1.66	5.91	314.6
605.	9.12	124.1	0.318	1.69	5.96	313.7
606.	9.18	123.1	0.321	1.71	6.00	313.1
607.	9.24	122.7	0.324	1.74	6.04	312.5
608.	9.34	121.5	0.329	1.78	6.10	311.1
609.	9.42	121.1	0.333	1.82	6.16	309.9
610.	9.52	120.1	0.338	1.86	6.27	308.3
611.	9.63	119.4	0.343	1.91	6.40	307.5
612.	9.77	118.0	0.350	1.95	6.56	306.6
613.	10.03	116.6	0.363	2.02	6.86	305.7
614.	10.28	115.4	0.376	2.10	6.97	304.8
615.	10.57	113.6	0.390	2.19	7.09	303.8
616.	10.89	111.2	0.407	2.30	7.23	302.2
617.	11.18	109.8	0.421	2.42	7.39	300.5
618.	11.47	108.5	0.436	2.54	7.56	298.8
619.	11.95	103.9	0.461	2.66	7.79	296.8
620.	12.41	100.1	0.486	2.79	8.04	295.4
621.	12.93	95.4	0.513	2.93	8.19	293.8
622.	13.47	90.9	0.542	3.05	8.31	291.6
623.	13.98	86.7	0.570	3.19	8.47	289.7
700.	14.55	82.1	0.601	3.35	8.62	287.7
701.	14.79	79.8	0.614	3.48	8.76	286.3

702.	15.09	77.2	0.631	3.61	8.88	285.1
703.	15.35	74.6	0.645	3.70	9.13	283.0
704.	15.62	72.0	0.661	3.81	9.26	281.4
705.	15.93	68.6	0.679	3.94	9.41	279.5
706.	16.11	65.6	0.689	4.06	9.40	277.4
707.	17.51	58.1	0.769	4.21	9.53	274.0
708.	18.95	50.8	0.855	4.40	9.52	270.5
709.	20.40	43.8	0.944	4.62	9.53	266.3
710.	21.59	37.9	1.018	4.92	9.64	262.3
711.	22.51	32.3	1.077	5.23	9.85	258.7
712.	22.57	28.5	1.081	5.51	10.26	254.5
713.	21.84	28.9	1.034	5.81	10.44	251.8
714.	20.79	29.2	0.968	6.04	10.67	250.1
715.	19.53	28.8	0.890	6.21	11.24	250.8
716.	17.86	28.2	0.790	6.26	13.62	254.8
717.	16.04	26.2	0.685	6.56	12.79	263.8
718.	14.30	21.6	0.587	6.90	12.12	269.4
719.	12.97	11.4	0.515	6.64	12.03	270.1
720.	12.56	359.1	0.493	5.99	12.00	268.7
721.	12.68	346.4	0.500	5.32	11.91	265.1
722.	13.24	335.6	0.530	4.76	11.76	255.6
723.	14.01	327.9	0.571	4.17	11.80	242.8
800.	14.68	322.1	0.608	3.82	11.84	221.3
801.	14.64	320.9	0.606	3.61	11.71	205.5
802.	14.30	319.8	0.588	3.39	8.18	190.4
803.	14.04	318.5	0.573	3.22	8.01	179.1
804.	13.65	317.4	0.552	3.07	7.55	171.2
805.	13.26	315.4	0.531	2.94	7.33	164.3
806.	12.82	313.1	0.507	2.81	7.18	158.5
807.	11.89	314.2	0.458	2.69	7.11	154.7
808.	10.98	315.5	0.411	2.53	7.06	153.7
809.	10.13	317.2	0.368	2.39	7.04	154.7
810.	9.26	319.1	0.325	2.23	6.97	155.9
811.	8.31	321.0	0.280	2.11	6.87	157.6
812.	7.29	322.7	0.237	1.98	6.38	159.1

STORM #9

Hurricane Gerda, September 1969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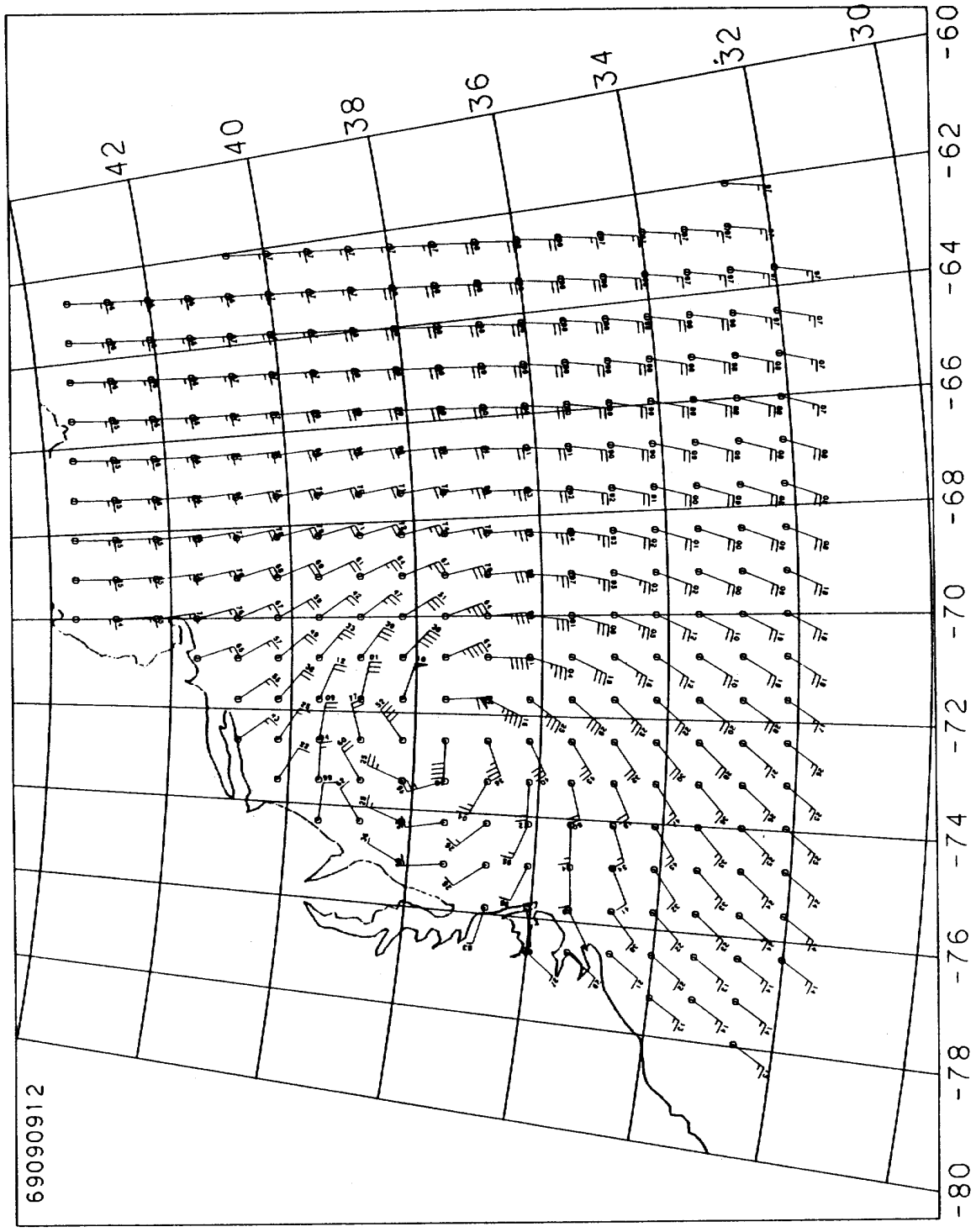

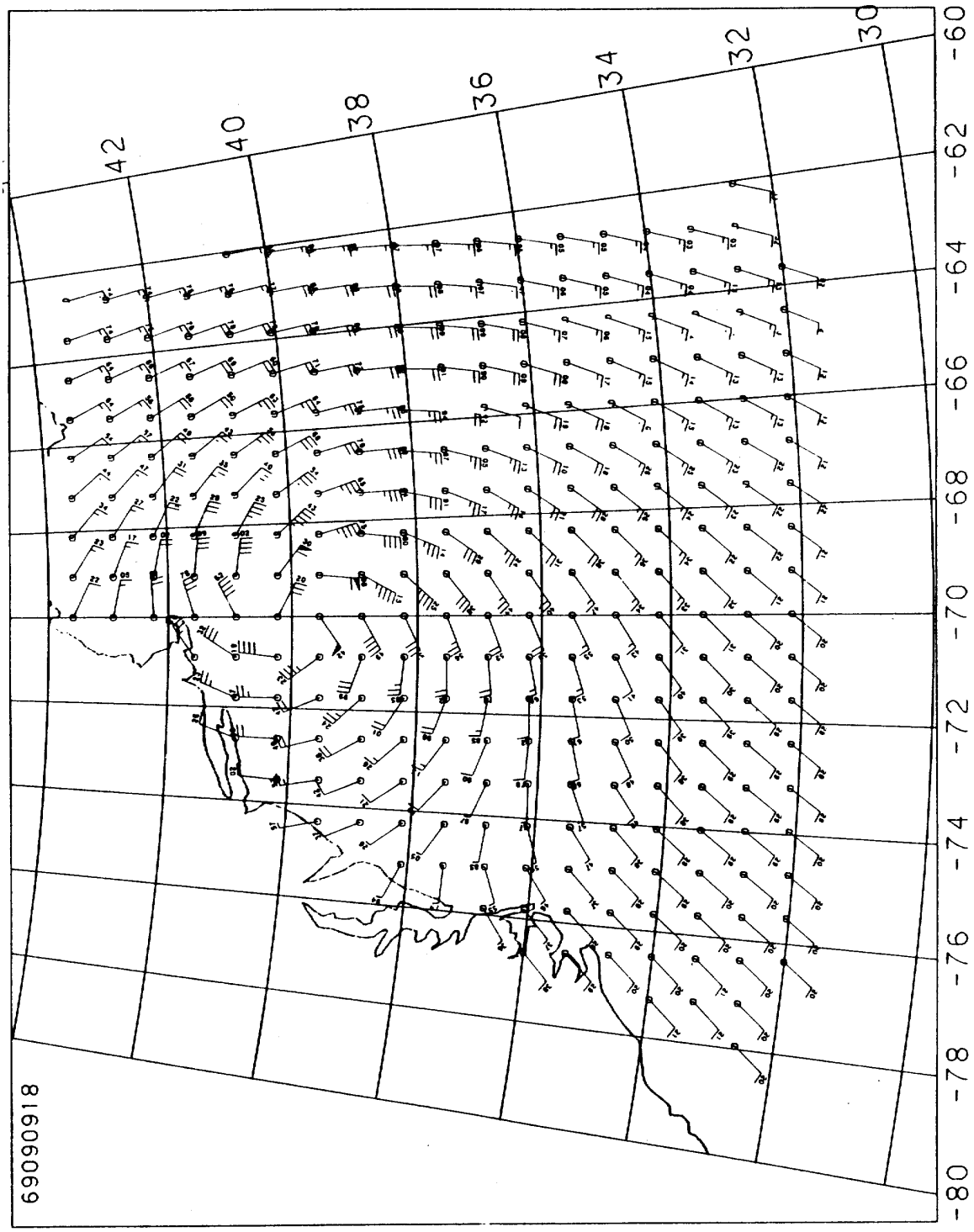
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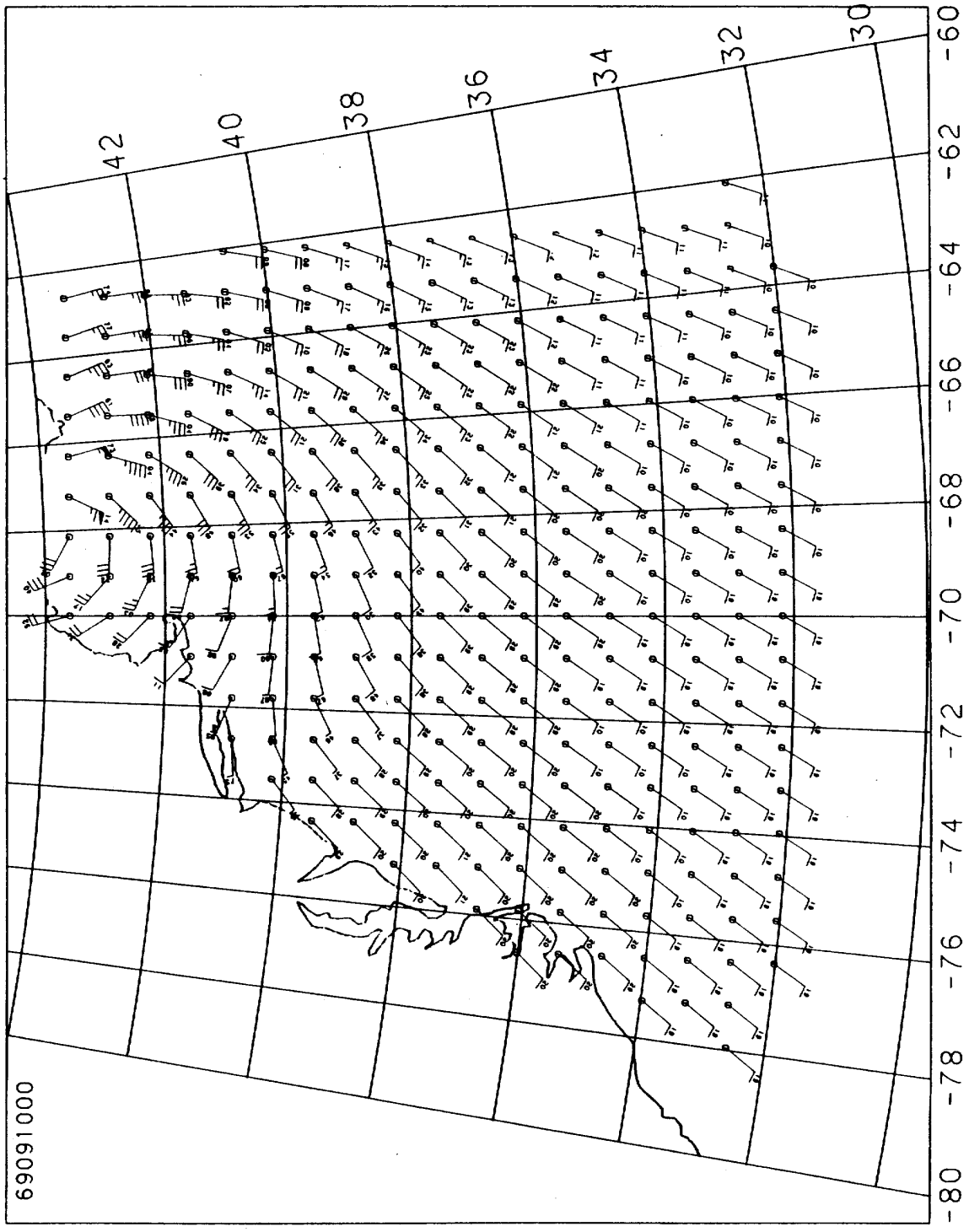
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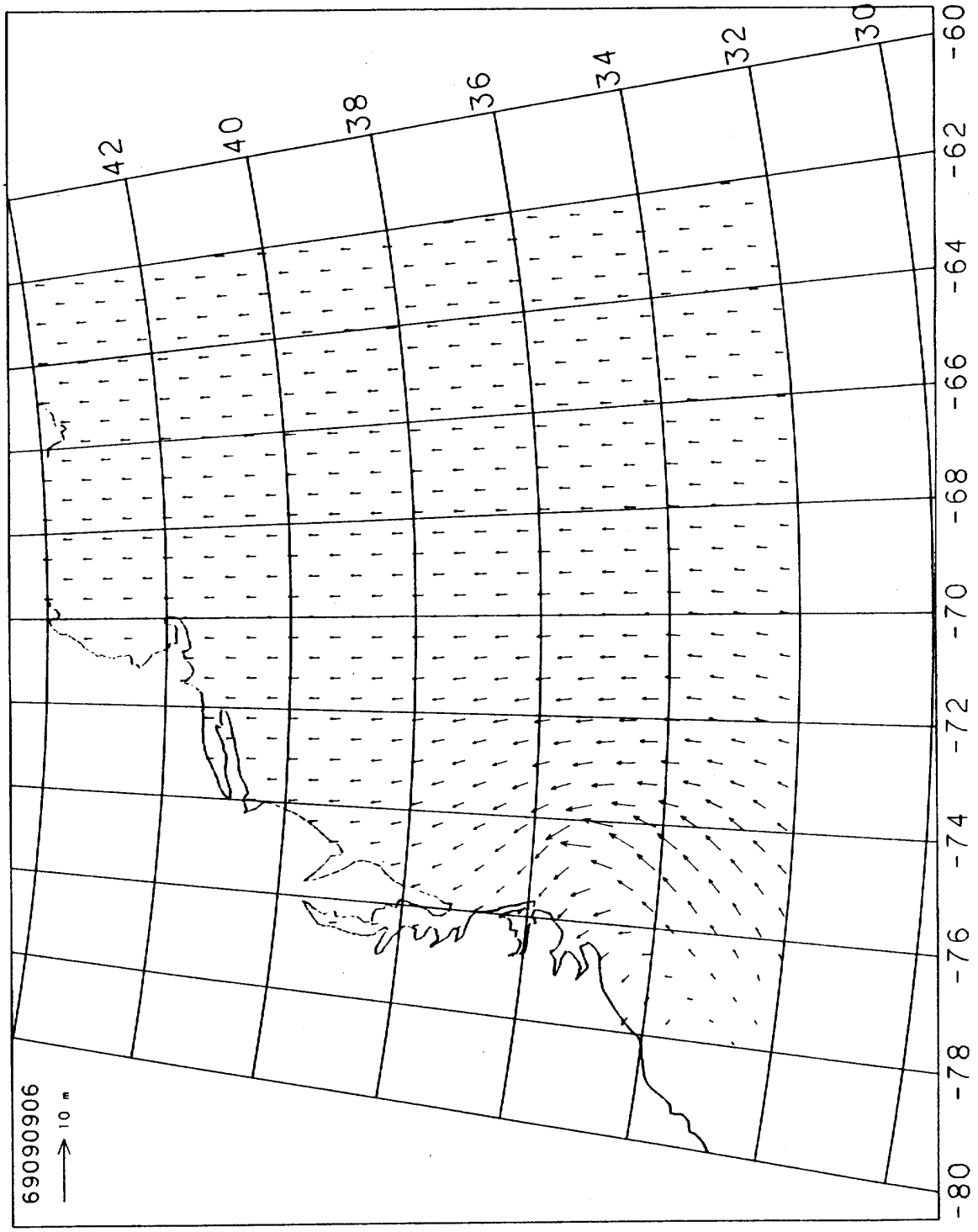

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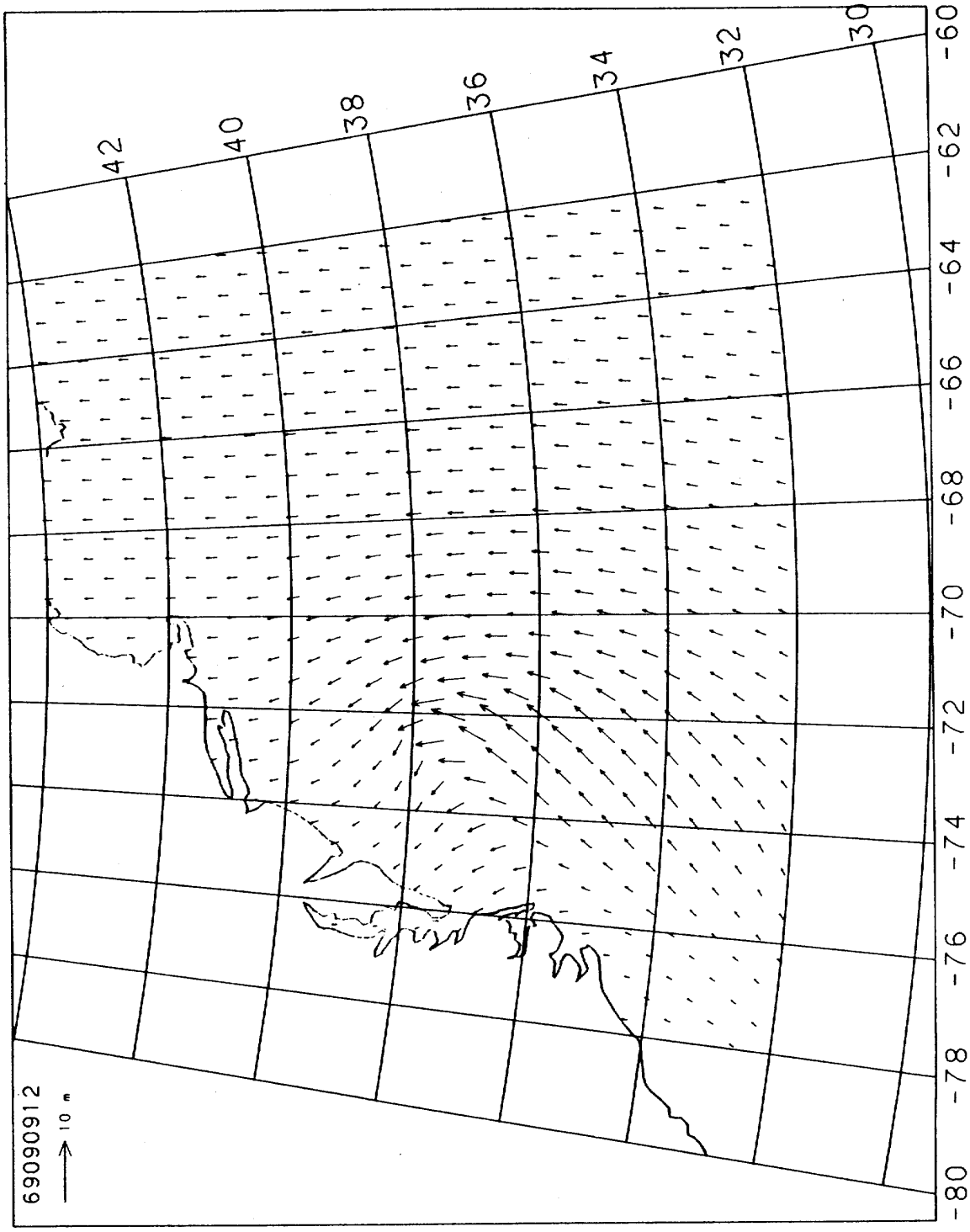

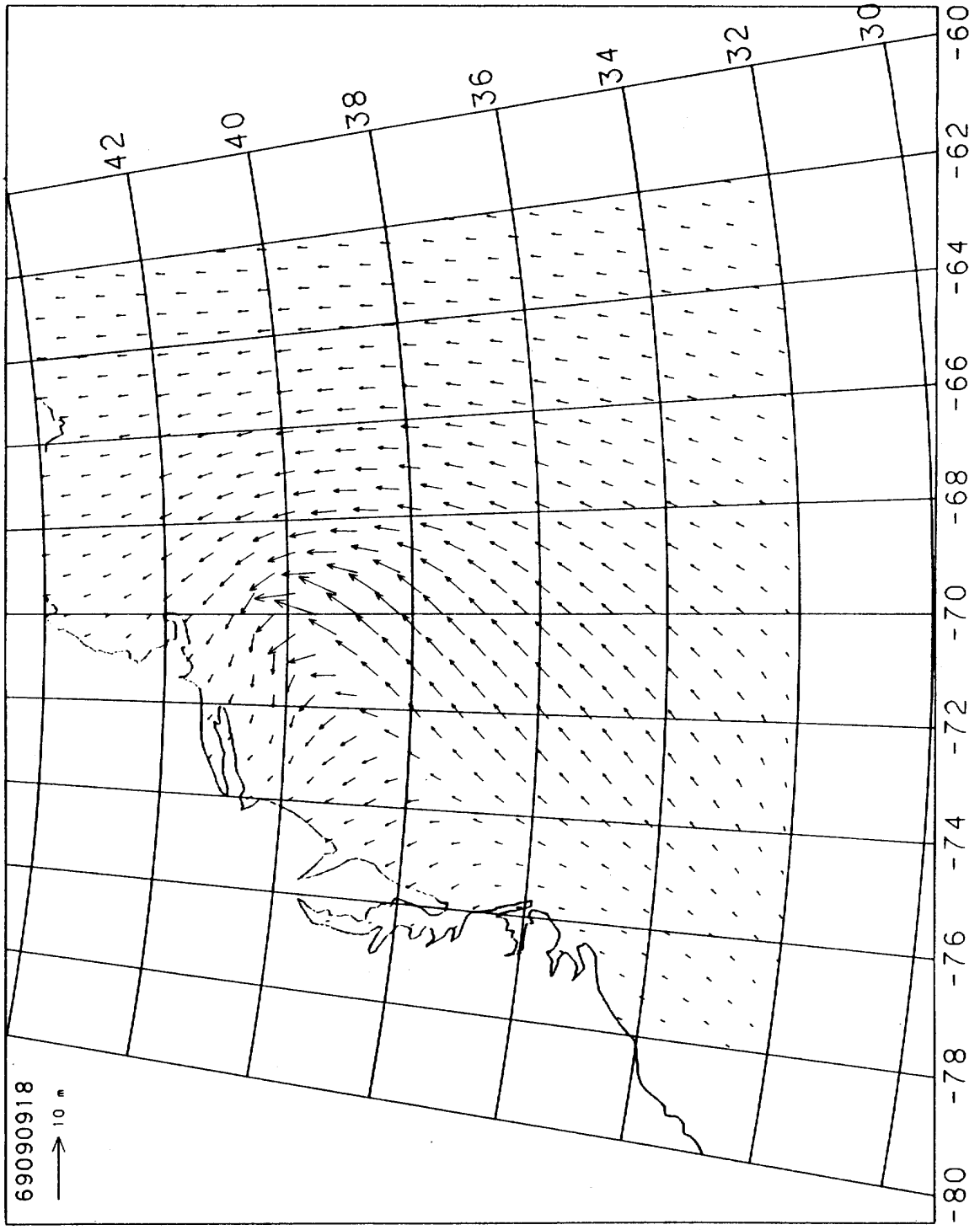
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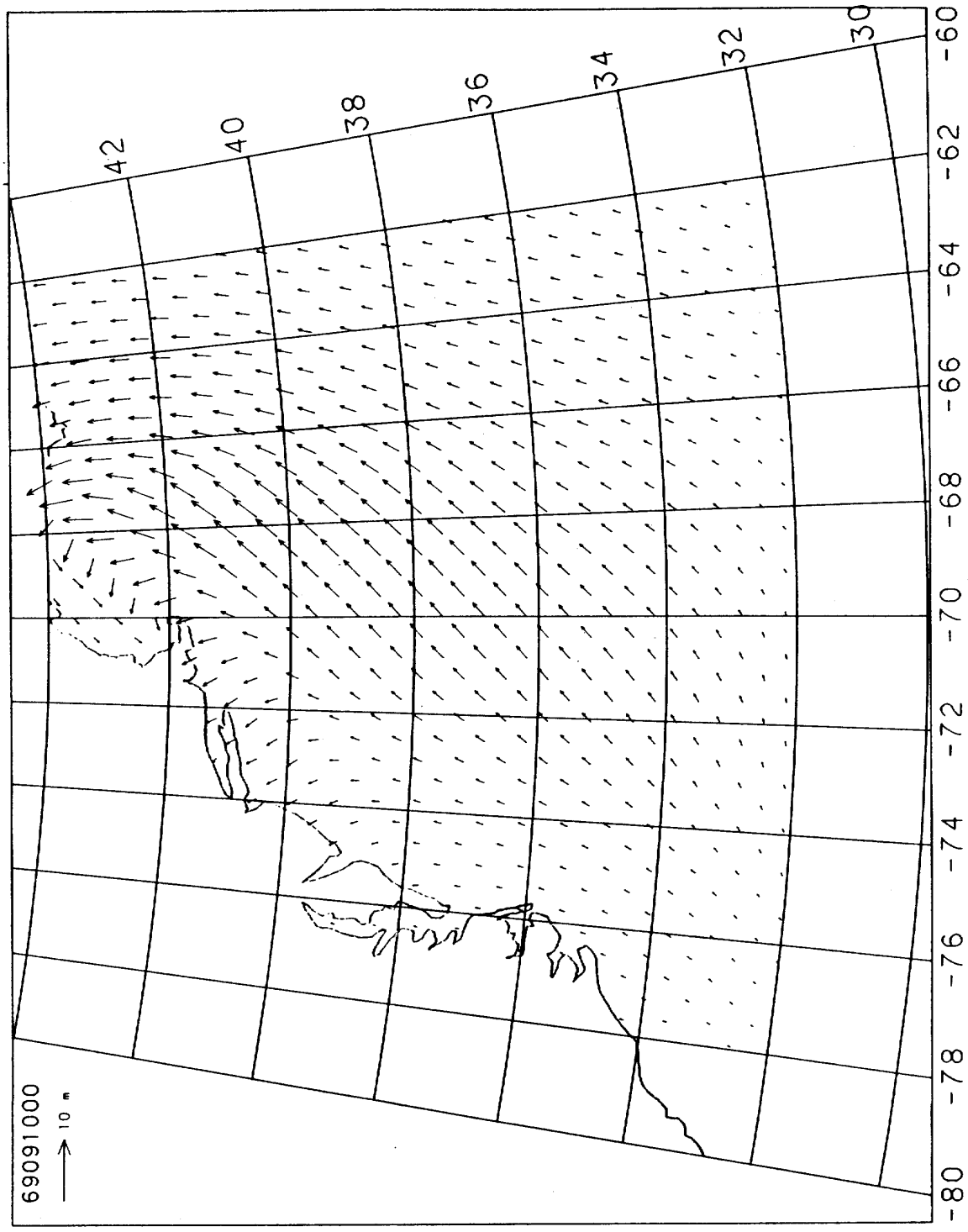

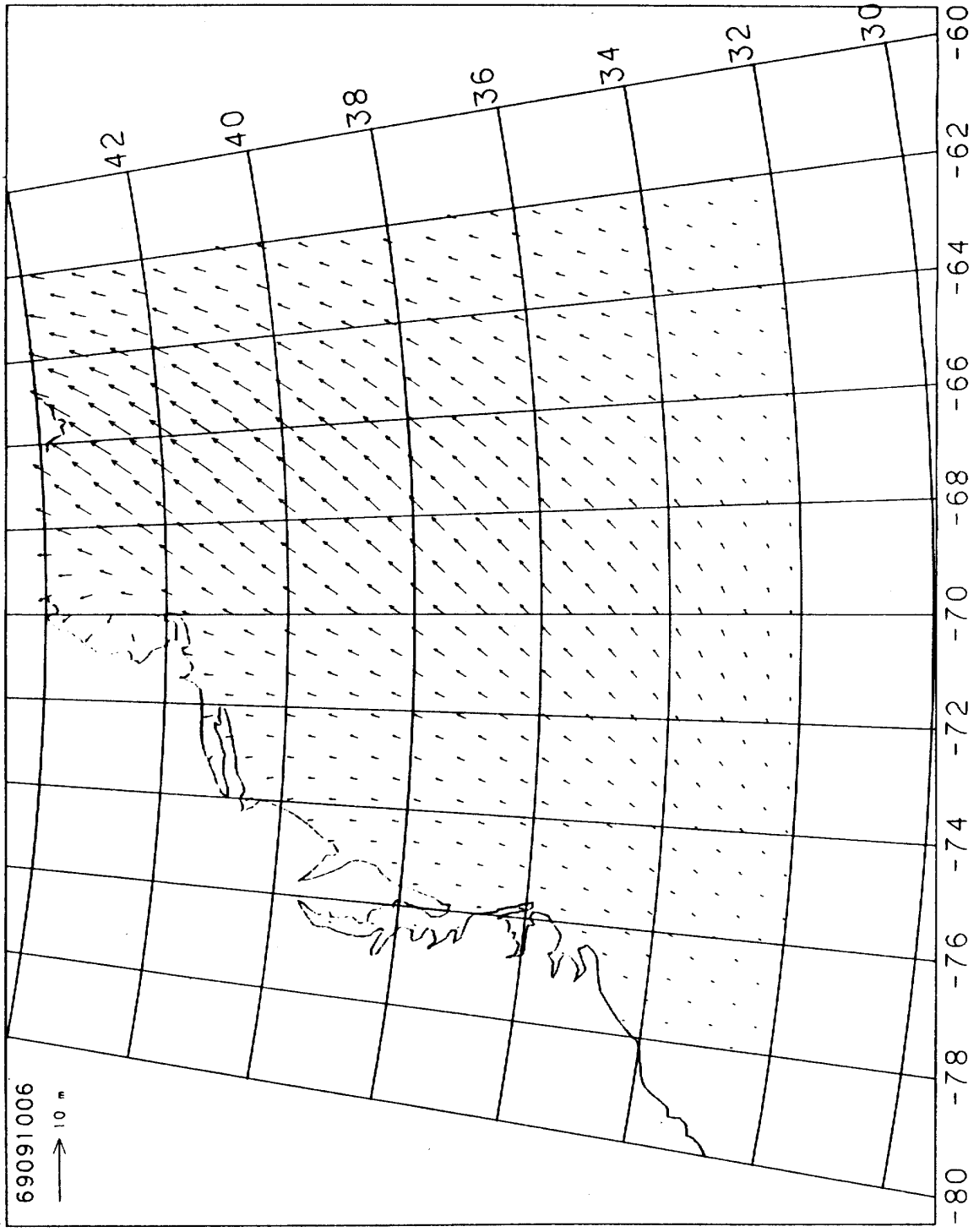
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Storm of 69090812 at grid point 383

ddhh	WS	WD	U*	Hs	Tp	VMD
813.	7.00	176.2	0.225	0.05	3.24	355.7
814.	7.16	177.2	0.231	0.12	3.24	355.8
815.	7.32	178.1	0.238	0.30	3.24	355.9
816.	7.48	178.9	0.244	0.60	3.24	356.8
817.	7.64	179.5	0.251	0.77	3.24	358.2
818.	7.79	180.1	0.257	0.93	4.02	359.2
819.	7.94	180.7	0.264	1.05	4.13	358.9
820.	8.09	181.2	0.270	1.11	4.16	358.9
821.	8.24	181.8	0.277	1.15	4.19	359.8
822.	8.39	182.3	0.284	1.20	4.24	0.1
823.	8.54	182.7	0.291	1.27	4.38	0.0
900.	8.68	183.0	0.298	1.35	4.95	0.5
901.	8.63	183.3	0.295	1.40	5.52	1.5
902.	8.57	183.6	0.292	1.43	5.56	2.2
903.	8.51	183.9	0.289	1.45	5.58	2.4
904.	8.46	184.1	0.287	1.47	5.61	2.5
905.	8.40	184.4	0.284	1.48	5.64	2.8
906.	8.35	184.6	0.282	1.49	5.66	2.8
907.	8.30	184.7	0.280	1.50	5.67	2.8
908.	8.26	184.9	0.278	1.50	5.68	2.9
909.	8.22	185.0	0.276	1.51	5.68	2.9
910.	8.20	184.8	0.275	1.51	5.69	2.9
911.	8.20	184.4	0.275	1.52	5.70	2.9
912.	8.22	183.7	0.276	1.52	5.70	2.9
913.	8.00	181.2	0.266	1.53	5.71	2.6
914.	7.84	177.8	0.259	1.53	5.72	2.4
915.	7.77	173.8	0.256	1.52	5.74	1.8
916.	7.86	168.9	0.260	1.52	5.77	0.9
917.	8.12	162.9	0.272	1.51	5.80	359.4
918.	8.71	156.9	0.299	1.57	5.83	356.1
919.	9.93	153.2	0.358	1.72	5.98	351.8
920.	11.51	151.2	0.438	1.98	6.85	349.0
921.	13.43	152.3	0.540	2.36	7.13	348.4
922.	15.45	158.6	0.651	2.81	7.48	349.8
923.	17.05	170.3	0.743	3.22	8.11	354.1
1000.	17.29	186.7	0.757	3.47	8.25	0.0
1001.	15.26	205.4	0.641	3.45	8.47	6.9
1002.	12.82	220.4	0.507	3.20	9.16	15.1
1003.	10.37	230.3	0.380	3.12	9.19	21.8
1004.	7.98	237.4	0.266	3.38	9.01	26.8
1005.	5.72	240.3	0.183	3.53	8.91	29.8
1006.	3.89	237.0	0.132	3.66	8.83	32.2

Storm of 69090812 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
813.	7.08	178.0	0.228	0.05	3.24	357.6
814.	7.23	178.7	0.234	0.12	3.24	357.8
815.	7.38	179.3	0.240	0.30	3.24	357.9
816.	7.53	180.0	0.246	0.61	3.24	357.7
817.	7.68	180.5	0.253	0.79	3.24	360.0
818.	7.83	181.0	0.259	0.95	4.05	0.2
819.	7.98	181.4	0.266	1.06	4.14	0.1
820.	8.13	181.8	0.272	1.11	4.17	0.0
821.	8.28	182.1	0.279	1.16	4.20	0.5
822.	8.43	182.5	0.286	1.21	4.25	0.6
823.	8.58	182.8	0.292	1.28	4.44	0.8
900.	8.72	183.0	0.299	1.37	5.23	1.3
901.	8.67	183.2	0.297	1.42	5.54	2.0
902.	8.62	183.4	0.295	1.44	5.57	2.3
903.	8.57	183.6	0.292	1.46	5.60	2.3
904.	8.52	183.8	0.290	1.48	5.64	2.4
905.	8.47	184.0	0.288	1.50	5.67	2.6
906.	8.43	184.0	0.286	1.51	5.69	2.6
907.	8.41	183.9	0.285	1.52	5.70	2.6
908.	8.41	183.4	0.285	1.53	5.72	2.5
909.	8.44	182.8	0.286	1.54	5.73	2.5
910.	8.49	181.8	0.289	1.55	5.75	2.4
911.	8.61	180.3	0.294	1.56	5.78	2.2
912.	8.80	178.4	0.303	1.59	5.84	1.6
913.	8.81	174.0	0.304	1.63	5.92	0.4
914.	8.99	168.8	0.312	1.68	6.01	358.2
915.	9.35	163.0	0.330	1.77	6.15	354.7
916.	9.97	156.7	0.360	1.91	6.41	350.8
917.	10.95	150.4	0.410	2.09	6.94	347.1
918.	12.38	144.9	0.484	2.33	7.20	344.9
919.	14.87	146.5	0.619	2.71	7.63	344.8
920.	17.57	154.7	0.773	3.19	8.11	347.4
921.	19.53	171.3	0.890	3.68	8.28	353.1
922.	18.88	193.3	0.851	3.89	8.55	0.6
923.	16.46	214.4	0.709	3.75	9.23	10.9
1000.	13.74	229.5	0.557	3.58	9.27	23.7
1001.	10.88	238.3	0.406	3.83	9.44	31.9
1002.	8.41	243.8	0.285	3.96	9.46	35.1
1003.	6.09	245.5	0.195	4.07	9.48	36.9
1004.	4.28	241.6	0.143	4.13	9.56	37.7
1005.	3.04	229.2	0.108	4.14	9.63	38.4
1006.	2.56	213.9	0.093	4.09	9.61	39.0

Storm of 69090812 at grid point 500

ddhh	WS	WD	U*	Hs	Tp	VMD
813.	7.03	177.1	0.226	0.05	3.24	356.6
814.	7.18	178.0	0.232	0.12	3.24	356.8
815.	7.34	178.9	0.238	0.30	3.24	356.9
816.	7.49	179.7	0.245	0.60	3.24	357.2
817.	7.65	180.3	0.251	0.78	3.24	359.4
818.	7.79	180.9	0.257	0.94	4.03	360.0
819.	7.94	181.4	0.264	1.05	4.14	359.9
820.	8.09	181.9	0.270	1.11	4.17	359.8
821.	8.23	182.4	0.277	1.15	4.19	0.4
822.	8.38	182.8	0.283	1.20	4.24	0.6
823.	8.52	183.1	0.290	1.27	4.40	0.9
900.	8.66	183.4	0.297	1.35	4.99	1.4
901.	8.61	183.6	0.294	1.40	5.52	2.1
902.	8.55	183.8	0.291	1.43	5.55	2.5
903.	8.49	184.0	0.288	1.44	5.58	2.6
904.	8.43	184.2	0.286	1.46	5.61	2.7
905.	8.38	184.3	0.283	1.48	5.64	2.8
906.	8.32	184.4	0.281	1.49	5.65	2.8
907.	8.27	184.5	0.278	1.49	5.66	2.8
908.	8.21	184.6	0.276	1.50	5.67	2.8
909.	8.17	184.5	0.274	1.50	5.68	2.8
910.	8.14	184.0	0.272	1.51	5.68	2.7
911.	8.14	183.1	0.273	1.51	5.69	2.6
912.	8.18	181.9	0.274	1.52	5.70	2.4
913.	7.96	178.2	0.265	1.52	5.71	2.1
914.	7.85	173.6	0.260	1.51	5.73	1.4
915.	7.84	167.7	0.259	1.51	5.76	360.0
916.	8.04	160.9	0.268	1.50	5.80	358.1
917.	8.51	152.9	0.290	1.53	5.84	354.9
918.	9.32	144.0	0.328	1.62	5.96	348.7
919.	11.15	137.6	0.420	1.85	6.44	343.9
920.	13.78	134.0	0.559	2.23	7.03	339.5
921.	17.39	136.2	0.763	2.76	7.32	338.7
922.	21.61	149.6	1.020	3.49	8.08	342.2
923.	23.43	178.1	1.137	4.16	8.37	352.0
1000.	20.59	208.1	0.956	4.12	9.16	4.5
1001.	16.11	227.1	0.688	3.88	9.20	19.8
1002.	12.65	240.3	0.498	3.95	9.50	32.8
1003.	9.72	248.3	0.348	4.11	9.47	36.9
1004.	7.10	254.2	0.229	4.12	15.98	37.7
1005.	4.77	255.3	0.156	4.08	9.53	38.2
1006.	2.93	248.0	0.104	4.04	9.60	38.0

Storm of 69090812 at grid point 617

ddhh	WS	WD	U*	Hs	Tp	VMD
813.	7.05	177.8	0.227	0.05	3.24	357.3
814.	7.20	178.7	0.233	0.12	3.24	357.6
815.	7.36	179.6	0.239	0.30	3.24	357.7
816.	7.50	180.3	0.245	0.60	3.24	357.7
817.	7.65	180.8	0.251	0.79	3.24	0.1
818.	7.80	181.4	0.257	0.94	4.04	0.3
819.	7.94	181.9	0.264	1.05	4.14	0.5
820.	8.08	182.4	0.270	1.10	4.17	0.7
821.	8.23	182.8	0.276	1.15	4.20	1.2
822.	8.37	183.1	0.283	1.20	4.24	1.3
823.	8.51	183.3	0.289	1.27	4.41	1.8
900.	8.65	183.5	0.296	1.35	5.03	2.0
901.	8.59	183.7	0.293	1.40	5.52	2.4
902.	8.53	183.9	0.290	1.42	5.55	2.5
903.	8.47	184.0	0.287	1.44	5.58	2.6
904.	8.41	184.1	0.285	1.46	5.61	2.7
905.	8.34	184.1	0.282	1.47	5.63	2.7
906.	8.28	184.1	0.279	1.48	5.65	2.7
907.	8.22	184.1	0.276	1.48	5.66	2.6
908.	8.15	184.0	0.273	1.49	5.67	2.5
909.	8.10	183.5	0.271	1.49	5.67	2.4
910.	8.06	182.6	0.269	1.49	5.68	2.2
911.	8.05	181.2	0.269	1.50	5.68	2.0
912.	8.07	179.2	0.270	1.50	5.69	1.8
913.	7.86	174.3	0.260	1.50	5.70	1.2
914.	7.76	167.9	0.256	1.48	5.74	359.6
915.	7.78	159.7	0.257	1.47	5.79	357.3
916.	8.08	150.2	0.270	1.46	5.84	354.2
917.	8.79	138.9	0.303	1.50	5.91	346.9
918.	9.87	126.8	0.355	1.60	6.24	340.3
919.	12.42	116.4	0.486	1.85	6.90	333.3
920.	16.58	109.2	0.716	2.31	7.06	326.3
921.	24.51	110.4	1.208	3.23	7.24	318.4
922.	34.88	165.2	1.964	5.27	8.75	337.8
923.	26.57	222.7	1.349	5.12	9.30	0.7
1000.	18.00	248.5	0.798	4.37	8.88	21.9
1001.	13.65	257.7	0.552	3.88	8.95	31.2
1002.	10.64	263.8	0.394	3.71	10.77	34.6
1003.	7.99	268.2	0.266	3.65	14.07	35.1
1004.	5.51	269.7	0.177	3.55	13.30	36.2
1005.	3.53	267.2	0.122	3.37	12.12	36.7
1006.	2.00	255.7	0.076	3.19	11.65	36.7

Storm of 69090812 at grid point 691

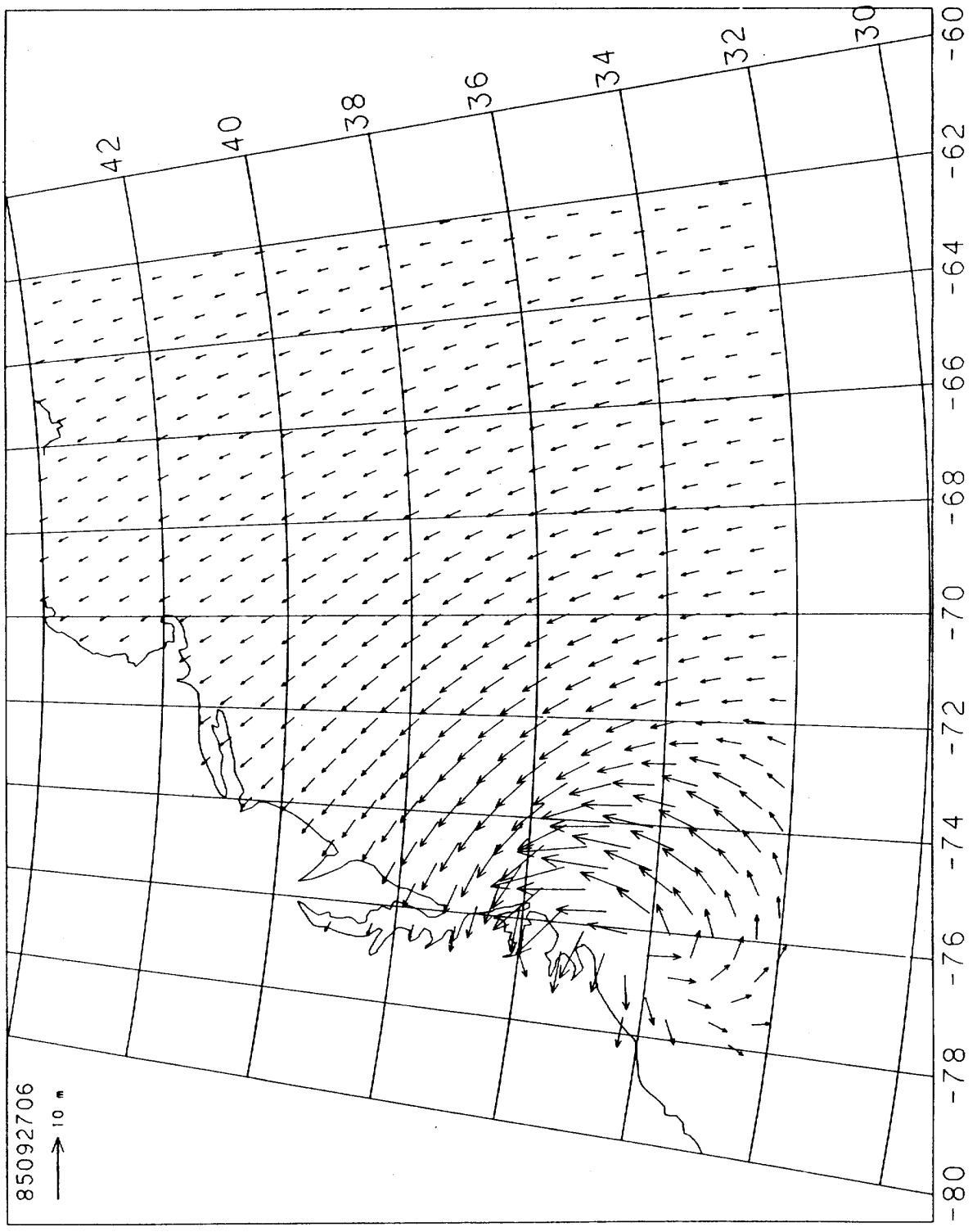
ddhh	WS	WD	U*	Hs	Tp	VMD
813.	7.13	179.2	0.230	0.05	3.24	358.9
814.	7.27	179.9	0.236	0.12	3.24	359.1
815.	7.42	180.5	0.241	0.30	3.24	359.1
816.	7.56	181.0	0.247	0.61	3.24	359.3
817.	7.70	181.4	0.253	0.81	3.24	0.7
818.	7.85	181.7	0.259	0.96	4.06	0.6
819.	7.99	182.0	0.266	1.06	4.14	0.9
820.	8.13	182.3	0.272	1.11	4.18	1.2
821.	8.27	182.5	0.279	1.16	4.20	1.6
822.	8.42	182.8	0.285	1.21	4.26	1.9
823.	8.56	182.9	0.292	1.29	4.48	2.0
900.	8.71	183.0	0.299	1.37	5.40	2.2
901.	8.66	183.1	0.296	1.42	5.54	2.1
902.	8.60	183.1	0.294	1.44	5.57	2.1
903.	8.54	183.2	0.291	1.46	5.60	2.2
904.	8.47	183.3	0.288	1.48	5.64	2.3
905.	8.41	183.2	0.285	1.49	5.66	2.2
906.	8.37	182.9	0.283	1.50	5.68	2.1
907.	8.34	182.1	0.281	1.51	5.70	2.0
908.	8.34	180.9	0.282	1.52	5.71	1.9
909.	8.38	179.2	0.283	1.53	5.72	1.7
910.	8.44	176.8	0.286	1.54	5.74	1.4
911.	8.62	173.4	0.294	1.56	5.79	0.6
912.	8.83	169.1	0.305	1.61	5.84	358.2
913.	8.95	161.3	0.310	1.67	5.94	354.4
914.	9.34	151.4	0.329	1.74	6.09	349.7
915.	10.16	140.1	0.369	1.87	6.40	343.5
916.	11.55	128.0	0.441	2.04	6.94	337.9
917.	13.72	116.8	0.555	2.25	7.13	332.8
918.	17.04	106.8	0.742	2.55	7.43	328.1
919.	25.71	108.0	1.290	3.55	7.48	318.1
920.	35.91	177.9	2.046	5.65	9.26	344.0
921.	25.02	230.6	1.242	5.15	9.88	4.3
922.	17.07	254.7	0.744	4.85	11.94	20.0
923.	13.10	265.6	0.522	4.60	13.61	29.6
1000.	10.36	271.0	0.380	4.20	12.75	35.2
1001.	7.82	270.6	0.258	3.74	12.30	37.7
1002.	5.61	268.2	0.180	3.41	11.69	38.9
1003.	3.89	262.1	0.132	3.19	11.41	39.2
1004.	2.67	247.6	0.096	3.01	11.28	38.7
1005.	2.04	223.4	0.077	2.89	10.96	37.7
1006.	2.09	206.7	0.078	2.76	10.55	36.8

Storm of 69090812 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
813.	7.06	178.1	0.228	0.05	3.24	357.6
814.	7.21	179.0	0.233	0.12	3.24	357.9
815.	7.36	179.9	0.239	0.30	3.24	358.0
816.	7.51	180.6	0.245	0.61	3.24	358.2
817.	7.65	181.1	0.251	0.79	3.24	0.3
818.	7.80	181.6	0.257	0.95	4.04	0.4
819.	7.94	182.1	0.264	1.05	4.14	0.6
820.	8.08	182.5	0.270	1.10	4.17	0.9
821.	8.22	182.9	0.276	1.14	4.20	1.5
822.	8.36	183.1	0.282	1.19	4.25	1.8
823.	8.50	183.4	0.289	1.26	4.41	2.0
900.	8.64	183.6	0.295	1.34	5.02	2.1
901.	8.58	183.7	0.293	1.40	5.51	2.2
902.	8.51	183.8	0.289	1.42	5.54	2.3
903.	8.45	183.8	0.287	1.43	5.57	2.3
904.	8.38	183.9	0.284	1.45	5.60	2.4
905.	8.32	183.8	0.281	1.46	5.63	2.4
906.	8.25	183.8	0.277	1.47	5.64	2.3
907.	8.17	183.6	0.274	1.47	5.65	2.1
908.	8.09	183.4	0.270	1.47	5.66	2.0
909.	8.03	182.7	0.268	1.48	5.66	1.7
910.	7.97	181.5	0.265	1.48	5.67	1.4
911.	7.95	179.7	0.264	1.48	5.67	1.0
912.	7.95	177.2	0.264	1.47	5.68	0.6
913.	7.70	171.3	0.253	1.47	5.69	359.7
914.	7.58	163.5	0.248	1.44	5.73	357.5
915.	7.58	153.6	0.248	1.42	5.80	354.7
916.	7.93	141.8	0.263	1.42	5.83	350.1
917.	8.74	128.2	0.300	1.41	5.95	341.8
918.	9.96	113.5	0.360	1.49	6.39	335.2
919.	12.81	99.1	0.507	1.72	6.81	325.8
920.	17.69	85.3	0.780	2.11	7.01	312.9
921.	27.27	73.3	1.397	3.09	6.21	287.5
922.	14.01	280.4	0.571	3.79	8.01	301.2
923.	16.97	289.0	0.738	3.88	9.20	331.0
1000.	14.09	288.4	0.576	3.83	9.53	349.7
1001.	11.15	284.0	0.420	3.39	9.63	1.7
1002.	8.63	283.8	0.295	3.20	14.64	16.1
1003.	6.16	282.5	0.197	3.07	13.63	24.3
1004.	4.22	279.0	0.141	2.84	13.29	29.4
1005.	2.66	271.6	0.096	2.57	12.51	33.4
1006.	1.50	252.3	0.059	2.44	11.85	33.2

STORM #10

Hurricane Gloria, September 1985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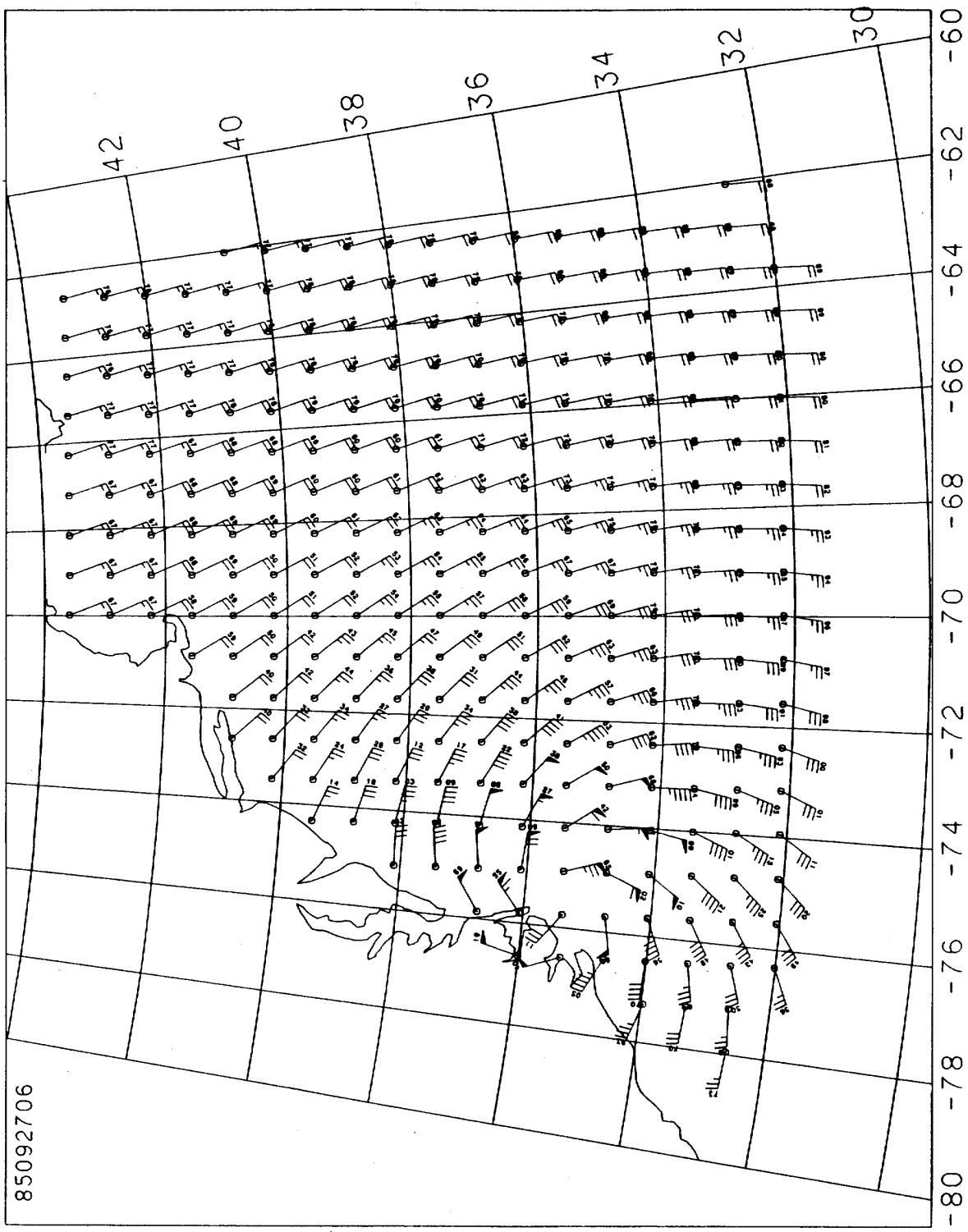

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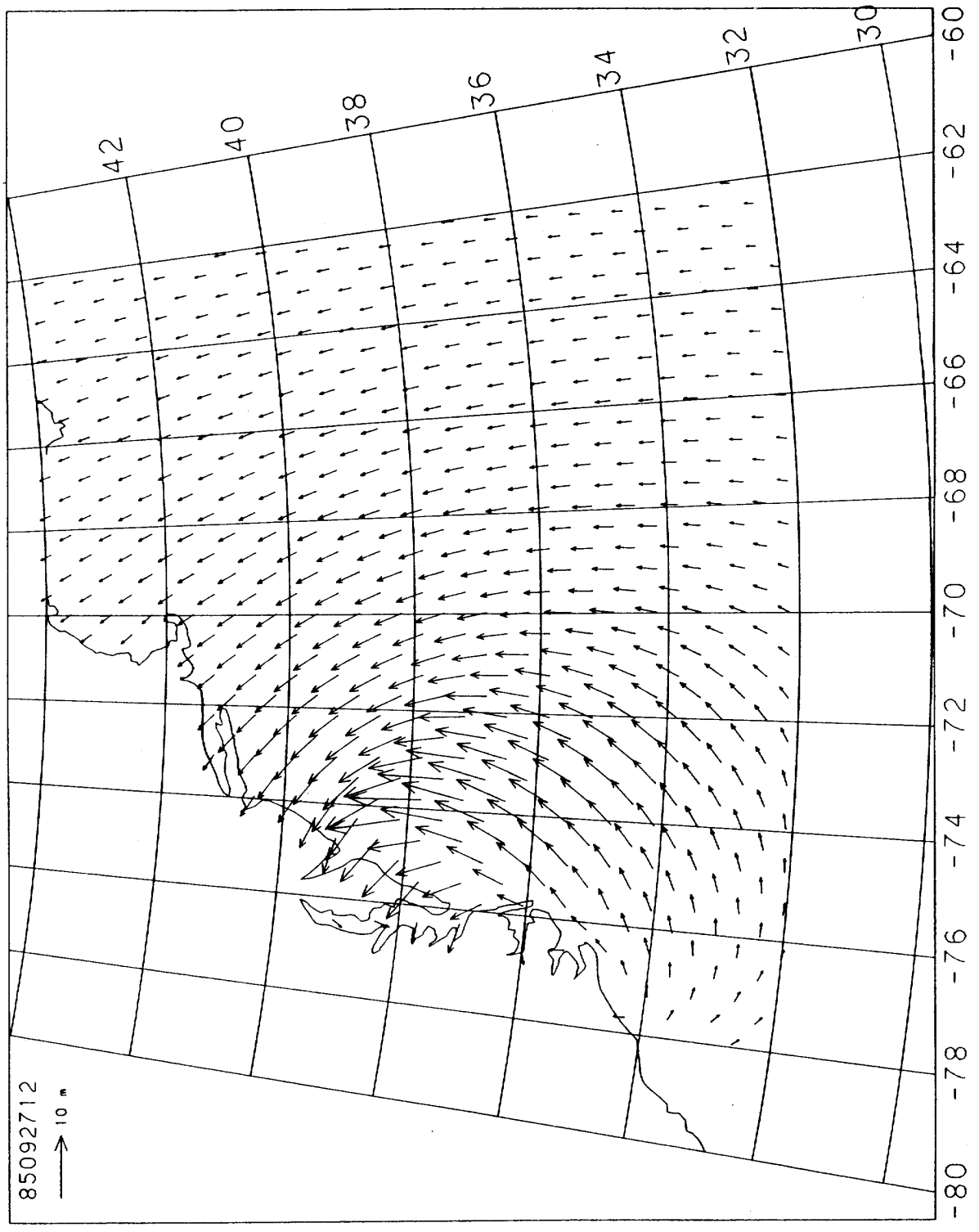

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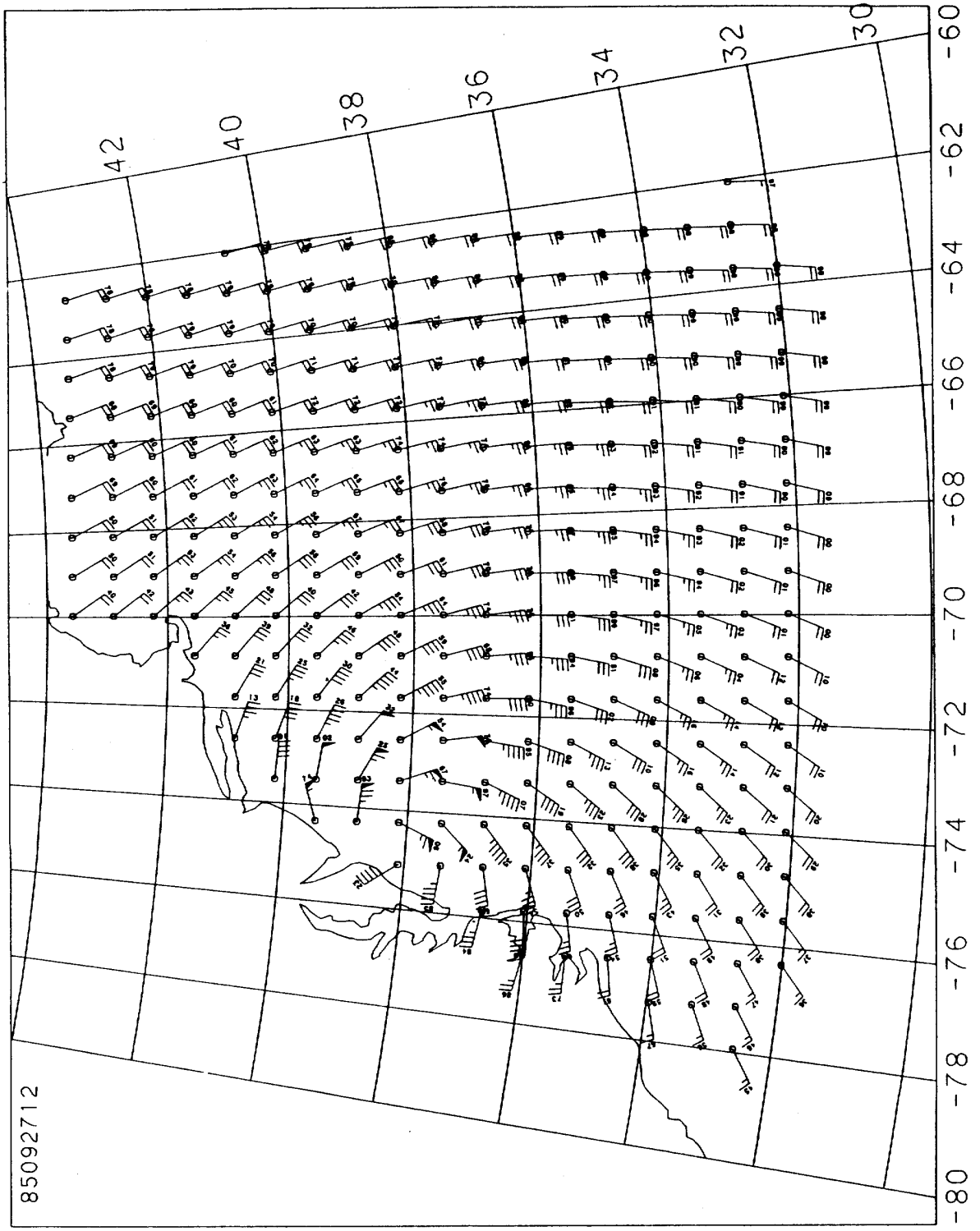

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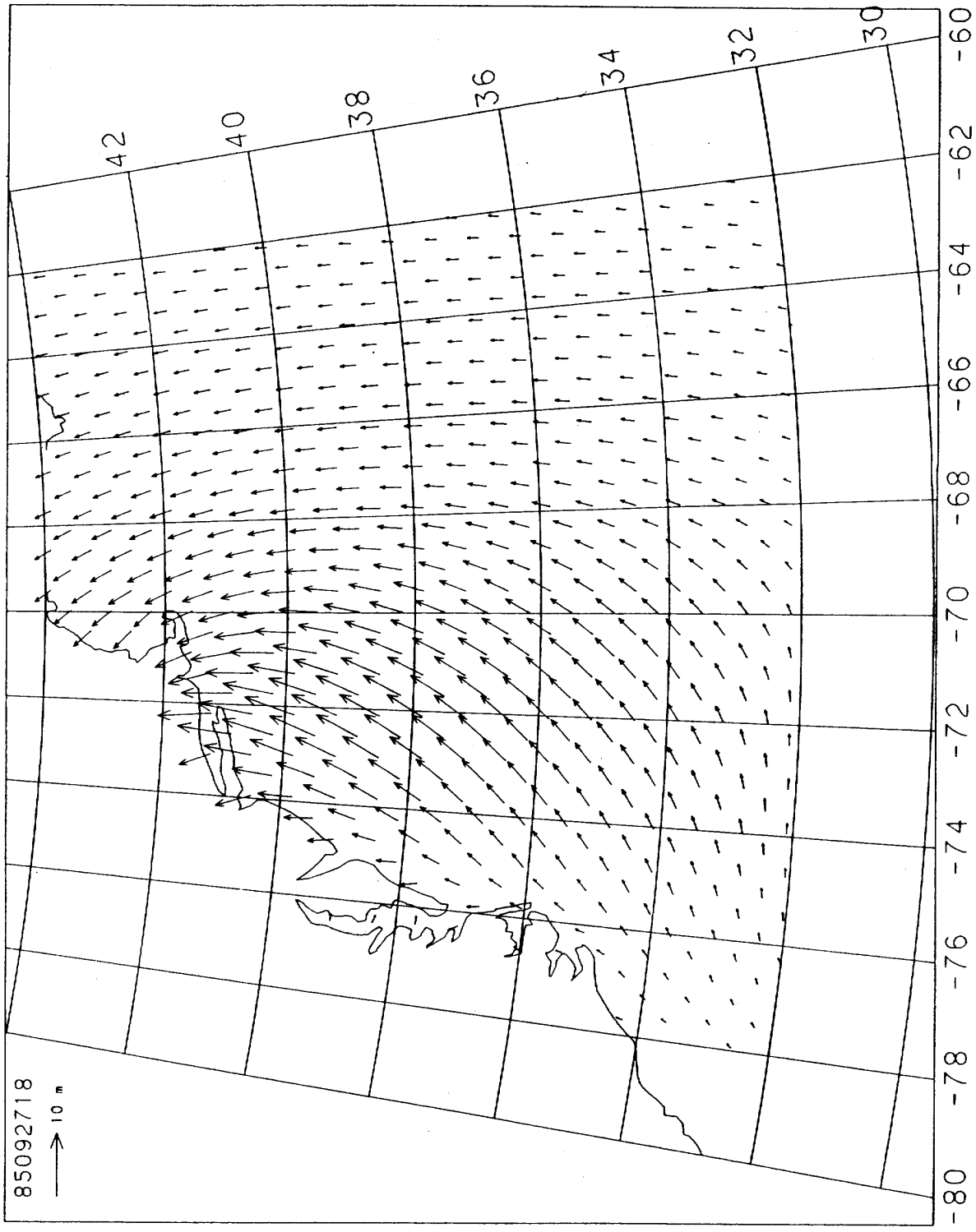

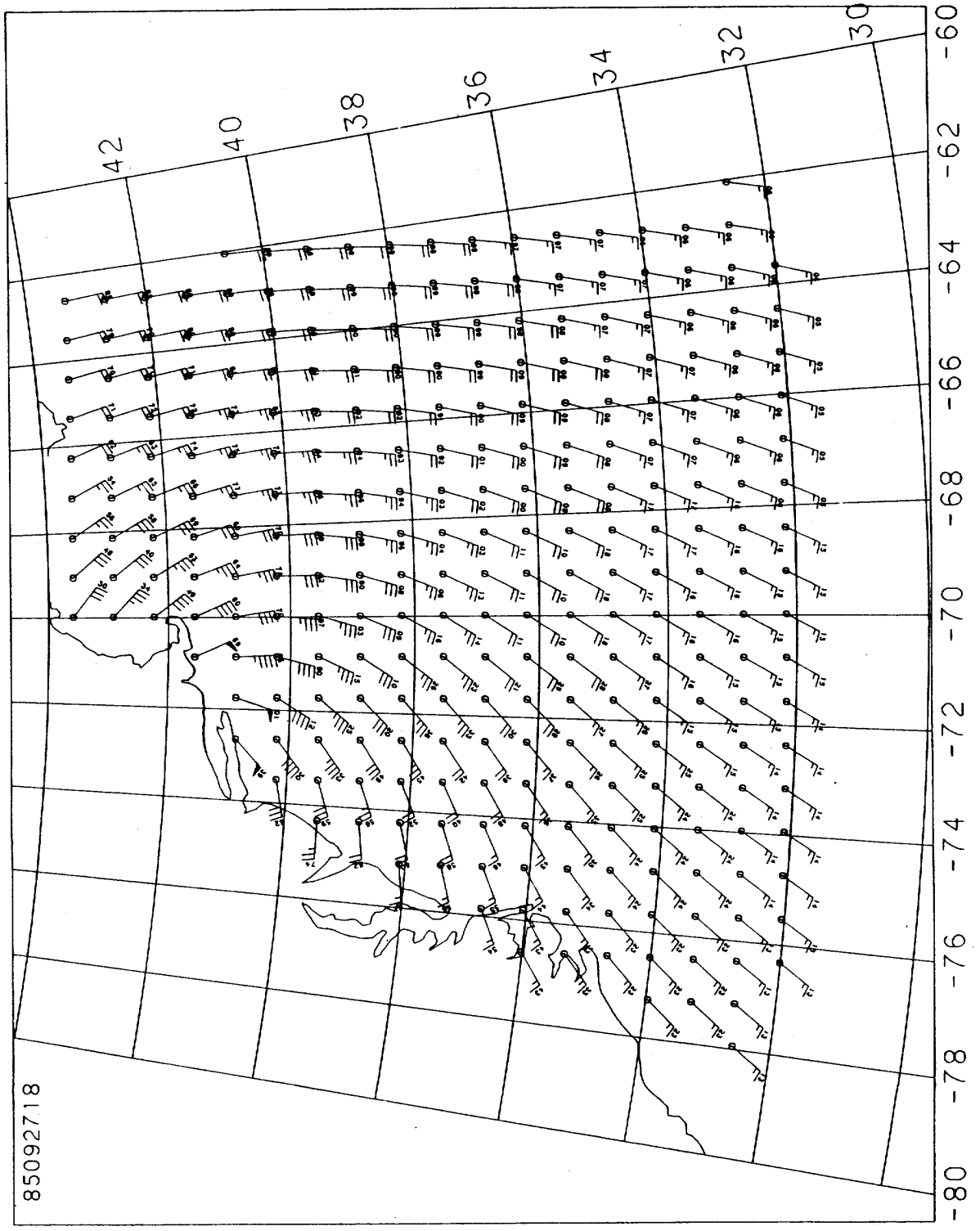
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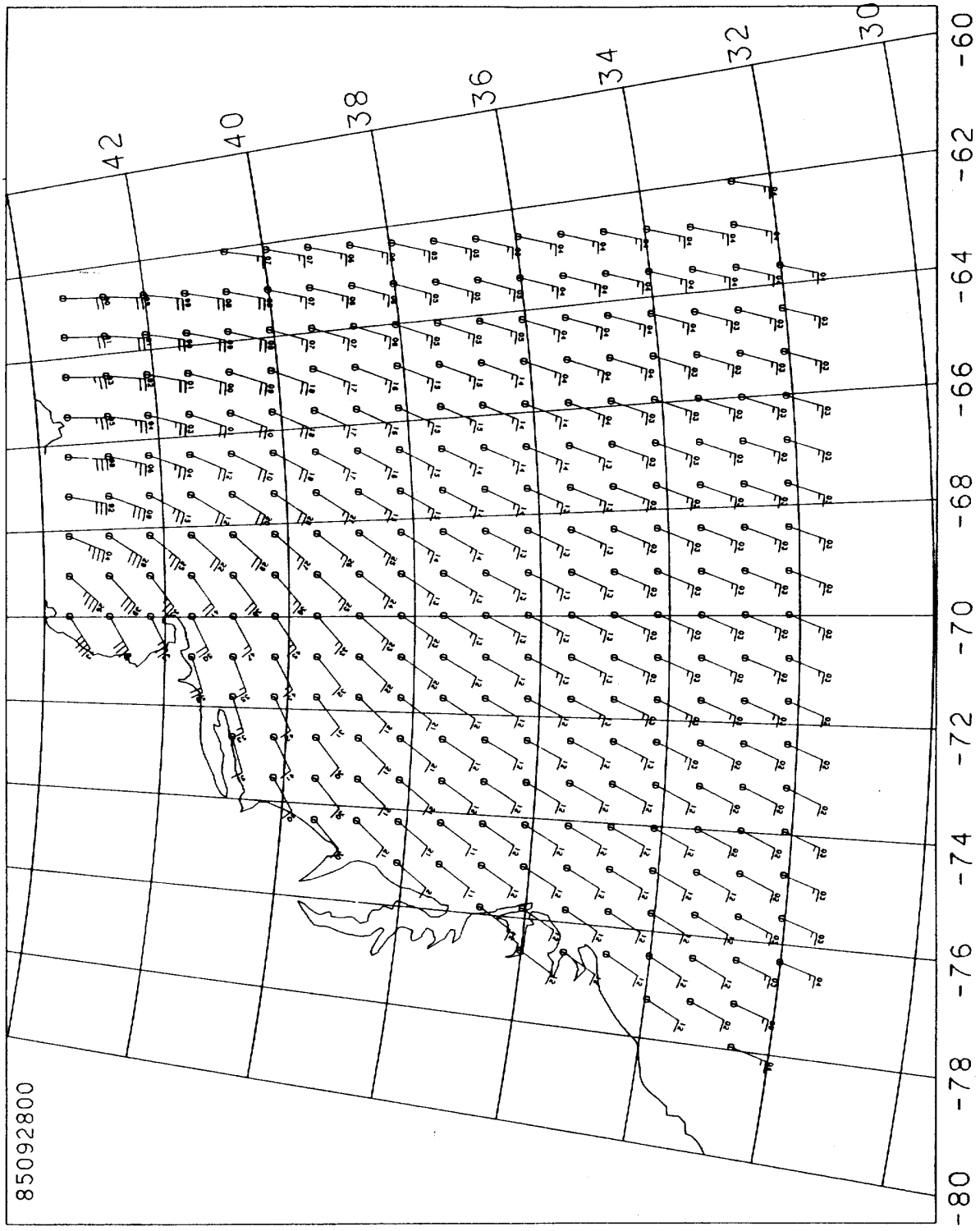
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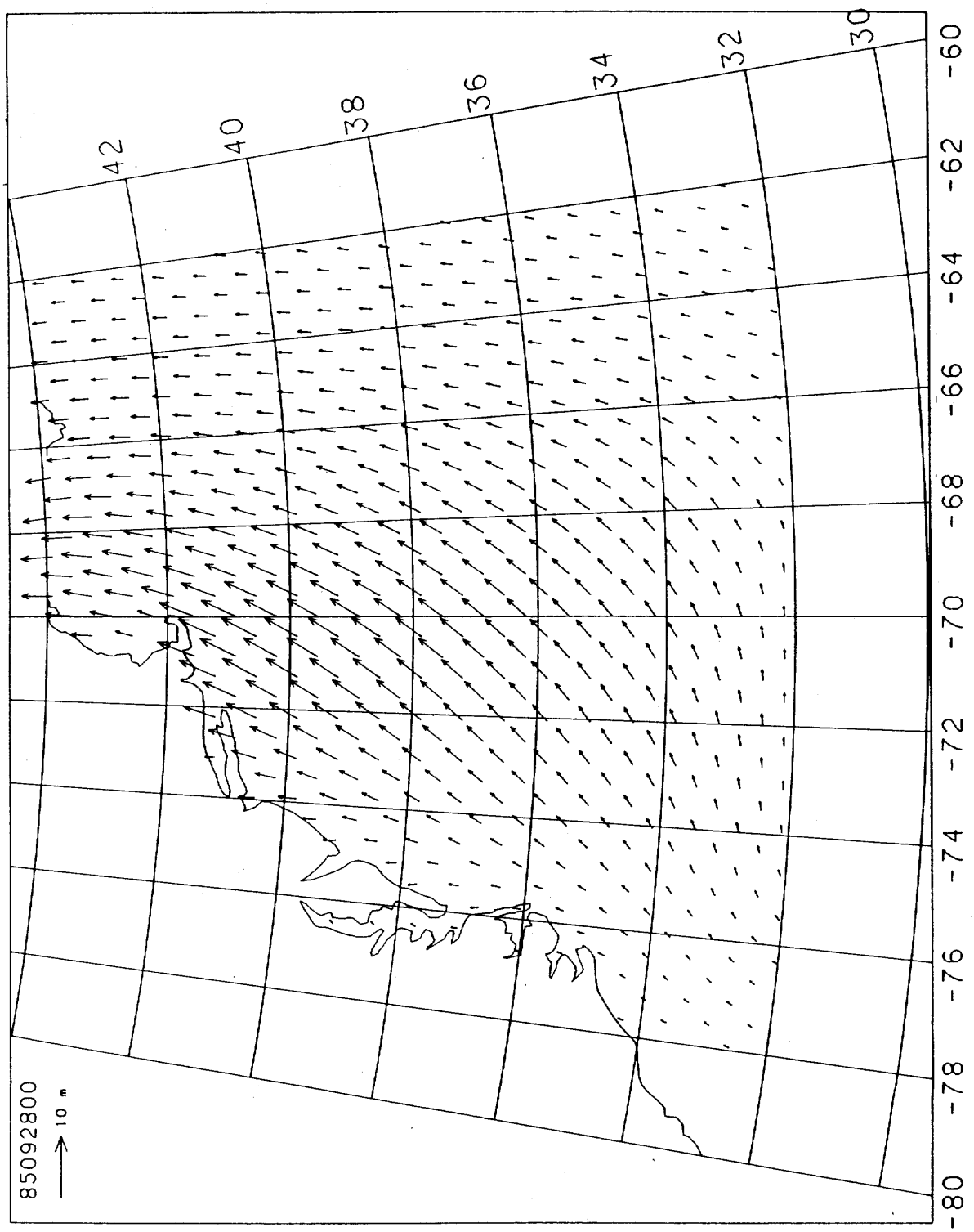
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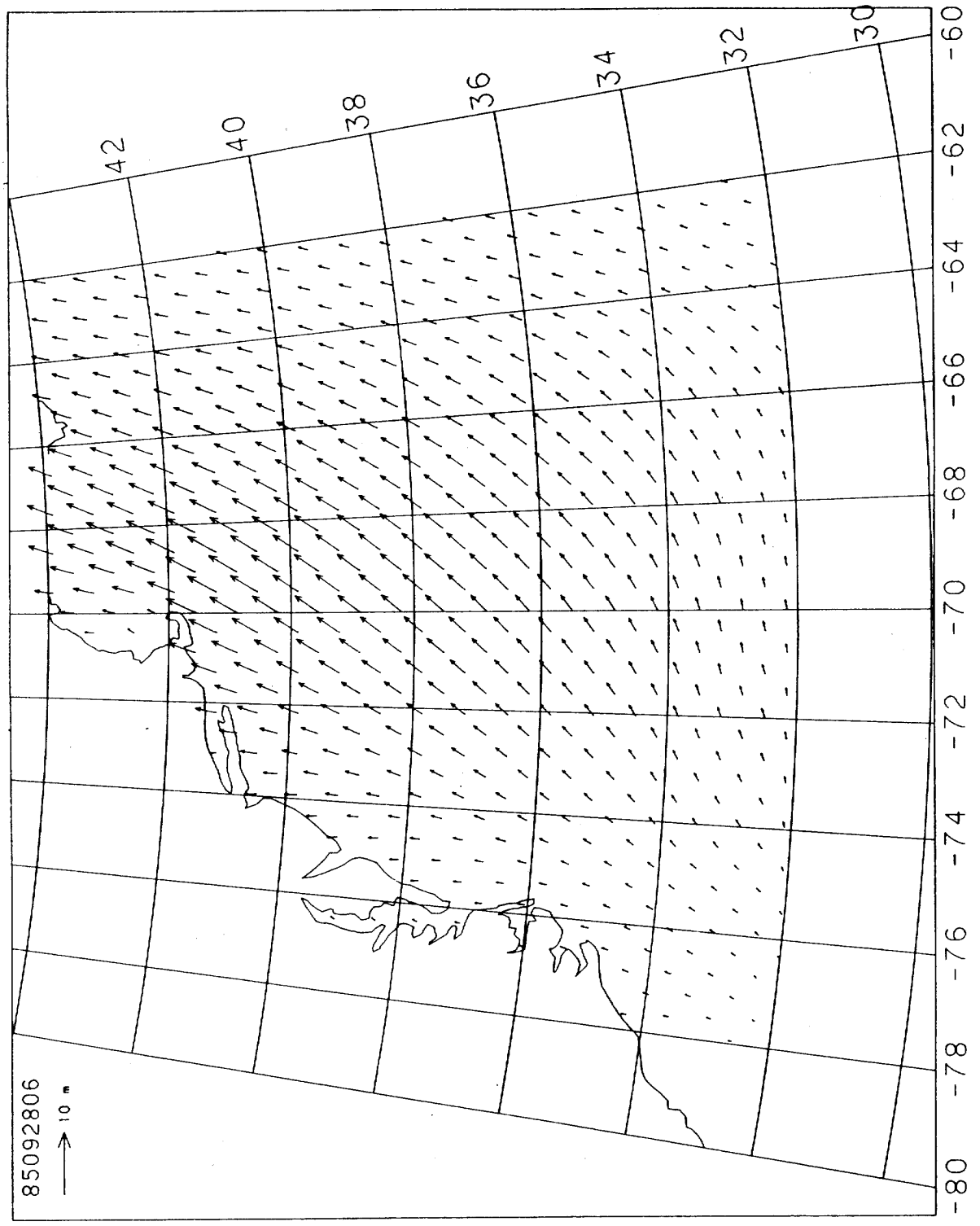

Storm of 85092600 at grid point 496

ddhh	WS	WD	U*	Hs	Tp	VMD
2601.	8.05	123.0	0.268	0.06	4.02	301.9
2602.	8.04	125.7	0.268	0.16	3.24	302.5
2603.	8.05	127.5	0.269	0.39	3.24	303.5
2604.	8.06	130.0	0.269	0.75	3.24	305.1
2605.	8.08	131.8	0.270	0.97	4.04	306.6
2606.	8.08	134.5	0.270	1.09	4.15	309.7
2607.	8.11	134.4	0,271	1.13	4.18	310.8
2608.	8.14	134.3	0.273	1.17	4.23	311.6
2609.	8.18	134.3	0.274	1.22	4.36	312.1
2610.	8.21	134.3	0.275	1.27	4.65	312.3
2611.	8.24	134.3	0.277	1.30	5.14	312.6
2612.	8.27	134.3	0.278	1.32	5.49	313.2
2613.	8.30	135.9	0.280	1.35	5.53	313.9
2614.	8.33	136.7	0.281	1.37	5.55	314.8
2615.	8.36	138.4	0.282	1.40	5.58	316.0
2616.	8.38	140.0	0.284	1.42	5.61	317.0
2617.	8.42	140.8	0.285	1.44	5.64	317.8
2618.	8.44	142.5	0.286	1.46	5.66	318.7
2619.	8.52	146.0	0.290	1.48	5.69	320.0
2620.	8.59	149.6	0.293	1.51	5.71	321.5
2621.	8.65	152.9	0.296	1.53	5.73	323.1
2622.	8.71	156.3	0.299	1.55	5.76	325.0
2623.	8.75	159.6	0.301	1.58	5.80	327.5
2700.	8.79	162.8	0.303	1.61	5.84	330.0
2701.	8.87	163.0	0.306	1.64	5.85	331.6
2702.	8.94	163.2	0.310	1.66	5.88	332.4
2703.	9.03	163.4	0.314	1.69	5.91	333.5
2704.	9.17	162.8	0.321	1.73	5.97	334.6
2705.	9.28	162.9	0.326	1.77	6.09	335.8
2706.	9.39	163.1	0.331	1.82	6.22	337.1
2707.	9.59	162.4	0.341	1.88	6.39	338.2
2708.	9.83	161.8	0.353	1.95	6.83	339.0
2709.	10.10	161.2	0.366	2.04	6.98	339.4
2710.	10.39	160.5	0.381	2.14	7.10	339.7
2711.	10.71	160.0	0.397	2.25	7.24	339.9
2712.	11.08	159.6	0.416	2.38	7.42	340.0
2713.	11.38	160.3	0.432	2.51	7.66	340.5
2714.	11.72	160.9	0.449	2.64	8.02	341.3
2715.	12.03	162.6	0.465	2.77	8.18	342.6
2716.	12.30	165.1	0.480	2.89	8.33	344.3
2717.	12.54	167.8	0.492	3.01	8.47	346.3
2718.	12.68	171.9	0.500	3.10	8.62	348.7
2719.	12.92	176.3	0.513	3.20	8.87	351.7
2720.	12.99	182.0	0.516	3.27	9.04	355.0
2721.	12.83	188.6	0.508	3.29	8.86	358.9
2722.	12.43	195.5	0.486	3.25	8.68	2.5
2723.	11.74	202.6	0.450	3.18	8.70	7.2
2800.	10.82	209.1	0.403	3.17	8.75	12.0
2801.	10.25	213.2	0.374	3.21	8.73	16.3
2802.	9.65	216.2	0.344	3.28	16.36	19.4
2803.	9.06	218.8	0.316	3.34	15.88	21.8
2804.	8.45	219.6	0.286	3.42	15.05	23.7
2805.	8.00	220.1	0.266	3.51	14.74	25.4
2806.	7.61	220.0	0.249	3.61	14.23	27.0

Storm of 85092600 at grid point 617

ddhh	WS	WD	U*	Hs	Tp	VMD
2601.	7.91	122.8	0.262	0.06	3.97	301.6
2602.	7.90	125.5	0.262	0.15	3.24	302.3
2603.	7.91	127.2	0.262	0.37	3.24	303.5
2604.	7.92	129.9	0.263	0.72	3.24	304.9
2605.	7.93	131.7	0.263	0.94	4.01	306.3
2606.	7.94	134.4	0.263	1.06	4.13	309.2
2607.	7.96	134.3	0.265	1.10	4.16	310.5
2608.	7.99	134.2	0.266	1.14	4.20	311.2
2609.	8.02	134.1	0.267	1.18	4.28	311.8
2610.	8.05	134.0	0.268	1.22	4.45	311.9
2611.	8.08	134.0	0.270	1.26	4.73	312.1
2612.	8.11	133.9	0.271	1.28	5.13	312.5
2613.	8.14	135.5	0.272	1.30	5.47	313.2
2614.	8.17	136.3	0.274	1.32	5.49	314.1
2615.	8.19	137.9	0.275	1.35	5.51	315.2
2616.	8.21	139.5	0.276	1.37	5.53	316.3
2617.	8.25	140.3	0.277	1.39	5.57	317.0
2618.	8.27	141.9	0.278	1.41	5.59	317.9
2619.	8.33	145.5	0.281	1.43	5.62	319.2
2620.	8.38	149.0	0.283	1.45	5.63	320.7
2621.	8.42	152.4	0.285	1.46	5.66	321.7
2622.	8.44	155.7	0.286	1.48	5.68	323.4
2623.	8.46	159.0	0.287	1.49	5.72	325.4
2700.	8.48	162.2	0.288	1.51	5.75	327.6
2701.	8.54	162.3	0.291	1.54	5.77	329.0
2702.	8.62	162.3	0.294	1.57	5.78	330.2
2703.	8.70	162.2	0.298	1.59	5.80	331.3
2704.	8.81	161.3	0.304	1.62	5.83	332.3
2705.	8.90	161.4	0.308	1.65	5.89	333.0
2706.	9.00	161.3	0.312	1.69	5.94	334.1
2707.	9.22	159.9	0.323	1.74	6.06	335.0
2708.	9.44	158.6	0.334	1.81	6.25	335.5
2709.	9.69	157.3	0.346	1.89	6.57	335.8
2710.	9.98	156.1	0.361	1.99	6.92	335.7
2711.	10.34	154.7	0.378	2.10	7.06	335.4
2712.	10.74	153.4	0.399	2.24	7.21	335.0
2713.	11.11	152.8	0.418	2.39	7.41	334.8
2714.	11.59	151.8	0.443	2.55	7.71	334.6
2715.	12.10	151.7	0.469	2.74	8.07	334.8
2716.	12.65	152.3	0.498	2.94	8.29	335.5
2717.	13.30	153.4	0.533	3.16	8.61	336.8
2718.	13.92	156.1	0.566	3.40	9.07	338.6
2719.	14.89	158.9	0.620	3.69	9.28	340.9
2720.	15.82	164.4	0.672	4.01	9.53	344.0
2721.	16.45	173.1	0.708	4.29	9.83	348.0
2722.	16.52	184.9	0.712	4.48	10.10	353.2
2723.	15.76	199.4	0.669	4.46	10.29	0.2
2800.	14.01	211.9	0.571	4.27	10.58	8.4
2801.	12.82	220.0	0.507	4.25	10.25	13.2
2802.	11.61	226.5	0.444	4.28	17.77	17.6
2803.	10.47	231.6	0.385	4.27	16.59	21.1
2804.	9.40	234.7	0.332	4.43	16.08	23.7
2805.	8.55	235.2	0.291	4.54	15.68	25.4
2806.	7.82	234.6	0.258	4.58	14.79	26.4

Storm of 85092600 at grid point 695

ddhh	WS	WD	U*	Hs	Tp	VMD
2601.	7.91	122.5	0.262	0.06	3.97	301.3
2602.	7.91	125.1	0.262	0.15	3.24	302.1
2603.	7.93	126.8	0.263	0.37	3.24	303.1
2604.	7.93	129.5	0.263	0.72	3.24	304.3
2605.	7.95	131.3	0.264	0.95	4.02	305.6
2606.	7.95	133.9	0.264	1.07	4.14	308.6
2607.	7.98	133.8	0.265	1.11	4.17	309.7
2608.	8.01	133.7	0.267	1.15	4.21	310.4
2609.	8.04	133.5	0.268	1.19	4.31	310.9
2610.	8.08	133.4	0.270	1.24	4.52	311.0
2611.	8.11	133.3	0.271	1.27	4.84	311.2
2612.	8.14	133.2	0.273	1.29	5.37	311.7
2613.	8.17	134.8	0.274	1.31	5.49	312.4
2614.	8.20	135.6	0.275	1.34	5.52	313.2
2615.	8.22	137.2	0.276	1.36	5.54	314.3
2616.	8.25	138.7	0.277	1.38	5.56	315.4
2617.	8.28	139.4	0.279	1.40	5.59	316.1
2618.	8.31	141.0	0.280	1.42	5.62	317.0
2619.	8.36	144.5	0.283	1.44	5.64	318.3
2620.	8.41	147.9	0.285	1.47	5.65	319.6
2621.	8.44	151.2	0.286	1.48	5.68	320.6
2622.	8.47	154.5	0.287	1.49	5.71	322.0
2623.	8.49	157.7	0.288	1.51	5.74	324.2
2700.	8.49	160.8	0.288	1.53	5.77	326.3
2701.	8.55	160.8	0.291	1.55	5.79	327.3
2702.	8.64	160.5	0.296	1.58	5.81	328.6
2703.	8.74	160.3	0.300	1.61	5.83	329.8
2704.	8.85	159.4	0.306	1.64	5.86	330.7
2705.	8.94	159.3	0.310	1.67	5.91	331.5
2706.	9.09	158.8	0.317	1.71	5.99	332.4
2707.	9.33	157.1	0.329	1.77	6.14	333.1
2708.	9.57	155.6	0.340	1.84	6.38	333.4
2709.	9.86	154.0	0.354	1.94	6.82	333.2
2710.	10.19	152.3	0.371	2.05	6.99	332.7
2711.	10.58	150.6	0.391	2.18	7.14	332.1
2712.	11.08	148.7	0.416	2.35	7.34	331.4
2713.	11.58	147.5	0.442	2.53	7.65	331.1
2714.	12.15	145.9	0.472	2.73	8.07	330.8
2715.	12.77	145.2	0.505	2.95	8.31	330.9
2716.	13.56	145.7	0.547	3.21	8.68	331.7
2717.	14.47	146.5	0.597	3.50	9.19	332.9
2718.	15.46	149.3	0.652	3.82	9.38	334.7
2719.	16.99	153.2	0.739	4.21	9.61	337.2
2720.	18.43	161.3	0.824	4.64	10.09	340.9
2721.	19.19	174.6	0.870	4.99	10.44	346.2
2722.	18.59	192.8	0.834	5.16	10.59	354.1
2723.	16.34	210.7	0.702	5.01	11.03	4.2
2800.	13.93	225.2	0.567	4.82	11.23	11.7
2801.	12.54	233.2	0.492	4.85	17.65	16.6
2802.	11.17	239.1	0.421	4.85	16.55	19.3
2803.	9.91	242.4	0.357	4.83	15.87	21.1
2804.	8.76	243.0	0.301	4.91	15.61	23.1
2805.	7.81	242.7	0.258	4.89	14.78	24.1
2806.	7.11	239.9	0.229	4.82	14.29	24.5