NOAA Technical Report NWS 26

# Frequency and Motion of Atlantic Tropical Cyclones

Washington, D.C.
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U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

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NWS 13 The March-April 1969 Snowmelt Floods in the Red River of the North, Upper Mississippi, and Missouri Basins. Joseph L. H. Paulhus, Office of Hydrology, October 1970, 92 p. (COM-71-50269)

NWS 14 Weekly Synoptic Analyses, 5-, 2-, and 0.4-Millibar Surfaces for 1968. Staff, Upper Air Branch, National Meteorological Center, May 1971, 169 p. (COM-71-50383)

NWS 15 Some Climatological Characteristics of Hurricanes and Tropical Storms, Gulf and East Coasts of the United States. Francis P. Ho, Richard W. Schwerdt, and Hugo V. Goodyear, May 1975, 87 p. (COM-75-11088)

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# Frequency and Motion of Atlantic Tropical Cyclones

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National Hurricane Center
Coral Gables, Fla.

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**U. S. DEPARTMENT OF COMMERCE**
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National Weather Service
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# FREQUENCY AND MOTION OF ATLANTIC TROPICAL CYCLONES

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ABSTRACT. Over the period 1899-1978, 663 tropical storms and hurricanes were recorded over the Atlantic area. This study presents a statistical analysis of these storms and includes charts of: (1) average storm frequency per unit area per 100-year interval, (2) mean resultant speed and direction, and (3) storm tracks upon which (1) and (2) are based. Tables also present the means and standard deviations of storm translation speed. The charts and tables are stratified by overlapping 30-day periods and by storm intensity.

## 1. INTRODUCTION

Over the past decade, statistical studies relating to frequency and motion of Atlantic tropical cyclones have been prepared in various formats, each study being tailored to the needs of a particular user group. For example, Simpson and Lawrence (1971), Sugg et al. (1971), and Hebert and Taylor (1975, 1978) dealt with statistical aspects of hurricanes that have affected the United States. These studies, conducted at the National Hurricane Center (NHC), were prompted by disaster preparedness needs. Additional studies by the NOAA/NWS Office of Hydrology in connection with the Federal Flood Insurance Program also focused on storms that affected the United States, but in relation to the storm surge (coastal inundation) problem. Examples within this category include Ho et al. (1975) and Schwerdt et al. (1979).

Other studies treat the entire Atlantic tropical cyclone basin. These include reports by Jarvinen and Neumann (1978), Neumann et al. (1978), and Crutcher (1971). Our analysis also treats the entire basin, but in greater temporal and spatial detail than before. It can be considered an update to the report of Hope and Neumann (1969), an out-of-print but often requested NHC publication.

The material presented here should be useful to both coastal and maritime interests. Included are charts and tables that depict frequency and motion characteristics for various storm intensities. The data are summarized for overlapping periods within the June through November Atlantic hurricane season.

## 2. DATA SOURCE

Tropical cyclone track and associated storm intensity data, 1899 through 1978, as described by Neumann et al. (1978) and Jarvinen and Caso (1978),

[1] Study partially supported by NOAA/ERL AOML-National Hurricane Research Laboratory (NHRL).

were the sole data sources used in the preparation of the charts. The question arises as to the accuracy of these data. Observations over oceanic areas traversed by tropical cyclones have always been meager and, before the era of aircraft reconnaissance that began in 1944, virtually nonexistent. Typically, pre-1944 track and intensity data were inferred from indirect evidence, such as peripheral ship and island reports. Even with the aid of aircraft weather reconnaissance, it was not until 24-hour weather satellite coverage began in the mid-1970s that frequent tropical cyclone position and wind estimates became available. Consequently, the quality of the data, particularly in the early years, is considerably better near populated land areas (such as the Gulf of Mexico or Caribbean Sea) than over the ocean. Many other factors relate to the quality and interpretation of the data. Users should be aware of these factors and refer to Neumann et al. (1978) before making further interpretations.

Although track and intensity data are available for years before 1899, these were excluded because they were considered questionable and too fragmented to be of value. Between 1899 and 1978, 663 tropical cyclones (sustained 1-minute average wind speeds of at least 34 knots) were recorded and used in this study. Of these storms, 383 (58%) became hurricanes (sustained 1-minute average wind speeds of at least 64 knots). After moving inland or over colder waters, tropical cyclones often became extratropical. These extratropical stages were included in the computations, provided the intensity criteria were satisfied. Tropical depressions (sustained wind speeds below 34 knots) were excluded.

## 3. COMPUTATIONAL PROCEDURES

### 3.1 Requirement for Interpolation

The data set (Jarvinen and Caso, 1978) upon which all computations were based gives the position and intensity of tropical cyclones at 6-hour intervals, 0000, 0600, 1200, and 1800 GMT. For the purposes of this study, positions and intensities were required at hourly intervals, rather than at the 6-hour intervals given on the tape. A bivariate scheme described by Akima (1970) was used for the interpolation.

### 3.2 Grid System

The computational procedure required that a grid system be established across the Atlantic tropical cyclone basin. For convenience, a grid was selected having equally spaced points on a Mercator projection, true at 22.5°N. The domain of the grid extended from the Equator to 50°N and from 15°W to 105°W. A 60-n.mi. (111.2-km) grid spacing at the Equator resulted in a grid array having 54 rows and 91 columns (4,914 points).

For digital counting purposes, a circle of 75-n.mi. (139-km) radius was centered at each of the 4,914 grid points. Hourly positions of the 663 storms were passed through the grid network and the following data were computed for each circular area:

1) The number of storms passing through the area

2) The average meridional component of storm motion

3) The average zonal component of storm motion

4) The average translation speed without regard to direction

5) The standard deviation of item 4.

The choice of a 75-n.mi. circle was prompted by the fact that this is the average area typically associated with damage, damage potential, or damage concern. The area of a 75-n.mi. circle approximates the area of the 2 1/2-degree latitude/longitude boxes used by Hope and Neumann (1969) in a similar study.

The speed and motion component tabulations were calculated so as to avoid bias toward slower moving storms, which have a greater number of hourly positions within a given area. We made this calculation by computing average components of motion and the means and standard deviations of storm speed for each storm and area. A similar procedure was used by Hope and Neumann (1969).

### 3.3 Additional Computations

Storm frequency - The tabulation procedure outlined above yields the number of tropical cyclones passing through each circular area over the 80-year period. For user convenience, a 100-year frequency was estimated by multiplying the 80-year frequencies by the factor 100/80. The data were also passed through the nine-point smoothing-desmoothing filter discussed by Gerrity (1977) and Shuman (1957). After smoothing, the fields were analyzed by a digital objective procedure.

Storm motion - To portray expected storm motion vectors graphically, the meridional and zonal components of storm motion were interpolated bi-linearly to a less dense grid (fig. 1) with points distributed every 2 1/2 degrees of latitude/longitude over the tropical cyclone basin. Storm translation speeds and standard deviations were similarly interpolated.

## 4. CHARTS AND TABLES

Charts and tabular data depicting frequency and motion characteristics are presented in appendix A for portions of the hurricane season and for three wind speed criteria. Chart Series A (pp. A-3 through 44) is based on all tropical cyclone track segments having winds of at least tropical storm strength (1-minute sustained winds of at least 34 knots). Chart Series B (pp. A-45 through 53) and C (pp. A55 through 57) are similar to Series A, except they are based on track segments that have at least 64 knots (hurricane strength) and 100 knots, respectively. Because sample sizes decrease with increasing wind speed, the number of stratifications in each series is greater with the lower wind speeds. Temporal stratifications included in each chart series are listed in the introduction to each series.

## 5. DISCUSSION

Graphical and tabular data presented in the appendix should satisfy the needs of many interests. Some of the more obvious uses are determination of storm tracks and frequencies by area and assessment of seasonal shifts in this activity. Since the essential purpose of the study is presentation rather than discussion of the data, no attempt will be made to further analyze the charts and tabular listings. However, several less obvious applications of the data are discussed in this section.

### 5.1 Variability of Tropical Cyclone Motion

It is known that tropical cyclone motion is much more persistent in some areas than others. A measure of this "steadiness" can be obtained by dividing mean resultant storm speed for a given site (column D in the appendix tabular data) by the average speed (column E). When this ratio is high (approximately 0.90 or greater), the resultant direction (column C) can be relied upon to represent the most likely direction of motion through that area. When the ratio is low (approximately 0.75 or less), the interpretation is that the resultant direction has been computed from storms moving in a variety of directions. Consequently, it is likely that a storm might move in a direction quite different from that of the resultant direction.

As an example, consider the 2 1/2-degree latitude/longitude box number 122 (fig. 1, p. A-2) for 1 May - 30 Nov. in Chart Series A (p. A-44). Note that the resultant direction and speed are 279° at 13 knots, while the mean speed is also 13 knots. The interpretation is that storms moving through this area of the Caribbean would not be expected to deviate from the 279°/13 knot vector motion. Such information is very useful for forecasting.

As a contrasting example, consider box number 296, in the Gulf of Mexico. The resultant direction and speed on page A-44 are 354°/7 knots and the mean speed is 10 knots. The ratio 0.70 of resultant to mean speed is low. Accordingly, storms in this area can be expected to move in a variety of directions during the season. Further discussion relative to these "steadiness" values is given by Hope and Neumann (1971).

### 5.2 Tropical Storms Versus Hurricanes

Tropical cyclones tend to be more intense in certain areas of the Atlantic basin. A measure of this intensity index can be obtained from the ratio of the number of expected hurricanes (given in Chart Series B) to the number of expected hurricanes and tropical storms combined (given in Chart Series A).

As an example, consider the Miami, Fla., area (box number 298 in fig. 1) and the northeastern Gulf of Mexico (box number 332) during the May-November season. In the Miami area, 51 storms can be expected per 100 years (p. A-44). Of these, 31, or 61%, attained hurricane strength (p. A-53). In the northeastern Gulf of Mexico, the number of storms passing within 75 n.mi. of the center of the box is 55 per 100 years, which is higher than for the Miami area, but the number reaching hurricane strength (21 per 100 years) is much lower than for the Miami area, giving a percentage of 38. Further information relative to the ratio of hurricanes to combined hurricanes and tropical storms along the Gulf and Atlantic coasts is given by Ho et al. (1975).

## 5.3 Poisson Probabilities of Storm Occurrence

As shown by Hope and Neumann (1969), the number of tropical cyclones passing through a given area for a given time interval is described by the Poisson distribution function,

$$P(x) = e^{-m}\, m^x/x!, \qquad (1)$$

where P(x) is the probability ($0 \leq P \leq 1$) of exactly x tropical cyclones, e is the base of natural logarithms ($\sim 2.7183$), m is the mean occurrence rate over the interval, and x! refers to x-factorial.

As an example of the computations, consider the 1 May - 30 Nov. period for box number 445 (off Cape Hatteras) on Chart Series A (p. A-44), where 76 storms can be expected per 100 years, giving a mean annual occurrence rate of 0.76. From eq. (1), the probability of having no storms pass within 75 n.mi. of the center of this box in a given year is 0.47. Similarly, the probability of observing exactly one, exactly two, or exactly three storms in a given year is 0.36, 0.14 and 0.03, respectively. The probability of having at least one storm is 0.53, at least two storms is 0.17, etc. Depending upon user requirements, the Poisson probabilities often provide a better measure of storm activity than the mean number of storms.

The chances of obtaining exactly x storms in N consecutive years can also be obtained by estimating an N-year mean by the algebraic product, N x m. For example, over a 2-year consecutive period, the mean occurrence rate is 1.52 storms. From eq. (1), the chance of no storms passing through the area is 0.22 and of at least one storm, 0.78. The chance of obtaining at least one storm over 5 consecutive years is 0.98.

## 5.4 Storm Translation Speeds

Mean storm translation speeds in each area are included in the tables under column E. The occurrence of speeds other than the mean can be accomplished by fitting the data to a statistical distribution. Since storm speeds are bounded at the lower end by zero but are theoretically unbounded at the upper end, the Gamma distribution may be expected to adequately describe the distribution of observed translation speeds. Properties of the distribution are described in detail by Crutcher et al. (1973, 1977, and 1978) and briefly by Burington and May (1958). The means and standard deviations of storm speeds given in columns E and F, respectively, are sufficient to provide moment estimates of the required shape and scale parameters of the Gamma distribution. Once the distribution has been fitted, inferences can be made as to the likelihood of storms moving through the area at speeds other than the mean.

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# APPENDIX A — CHARTS AND TABLES

## A.1 Introduction

Charts and tabular data depicting frequency and motion characteristics are presented for various portions of the hurricane season and for three wind speed criteria. Chart Series A (pp. A-3 through 44) is based on all tropical cyclone track segments having winds of at least tropical storm strength (1-minute sustained winds of at least 34 knots). Chart Series B (pp. A-45 through 53) and C (pp. A-55 through 57) are similar to Series A, except they are based on track segments having at least 64 knots (hurricane strength) and 100 knots, respectively. Because sample sizes decrease with increasing wind speed limits, the number of stratifications in each series is greater in the case of the smaller wind speed limits (20 stratifications are given for Chart Series A, four for Chart Series B, and one for Chart Series C).

## A.2 Chart Descriptions

Charts and associated tabular data are arranged in pairs on facing pages as follows:

UPPER LEFT: The initial panel in each set of charts depicts storm frequency. Isolines are at intervals of three storms passing within 75 n.mi. per 100 years, except in the case of the 1 May - 30 Nov. and 16 Jul. - 20 Sep. periods of Chart Series A where isolines are at intervals of five storms per 100 years.

LOWER LEFT: The lower left panel gives the vector speed (knots) and direction (toward which storms are moving) averaged over 2 1/2-degree latitude/longitude boxes. Vector motions were not computed when frequencies were less than five storms per 80 years.

UPPER RIGHT: This panel gives specific storm tracks used in the computations. Solid lines depict portions of storm tracks meeting speed and temporal stratification criteria. Dashed portions refer to track segments that do not meet at least one of the criteria and, thus, are excluded from the computations.

LOWER RIGHT: Data used in construction of the upper-left and lower-left charts, as well as additional statistics for the given temporal and wind stratification, are tabulated on the lower portion of the right-hand page. Columnar headings A through F are identified as follows:

Column A: The index number of the 2 1/2-degree latitude/longitude box as specified in fig. 1

Column B: Expected number of tropical cyclones passing within 75 n.mi. (139 km) of given box center per 100 years

Column C: Resultant (vector) direction in degrees toward which the storm is expected to move on the average

Column D: Resultant (vector) speed in knots

Column E: Average translation speed without regard to direction (knots)

Column F: Standard deviation (knots) of column E data

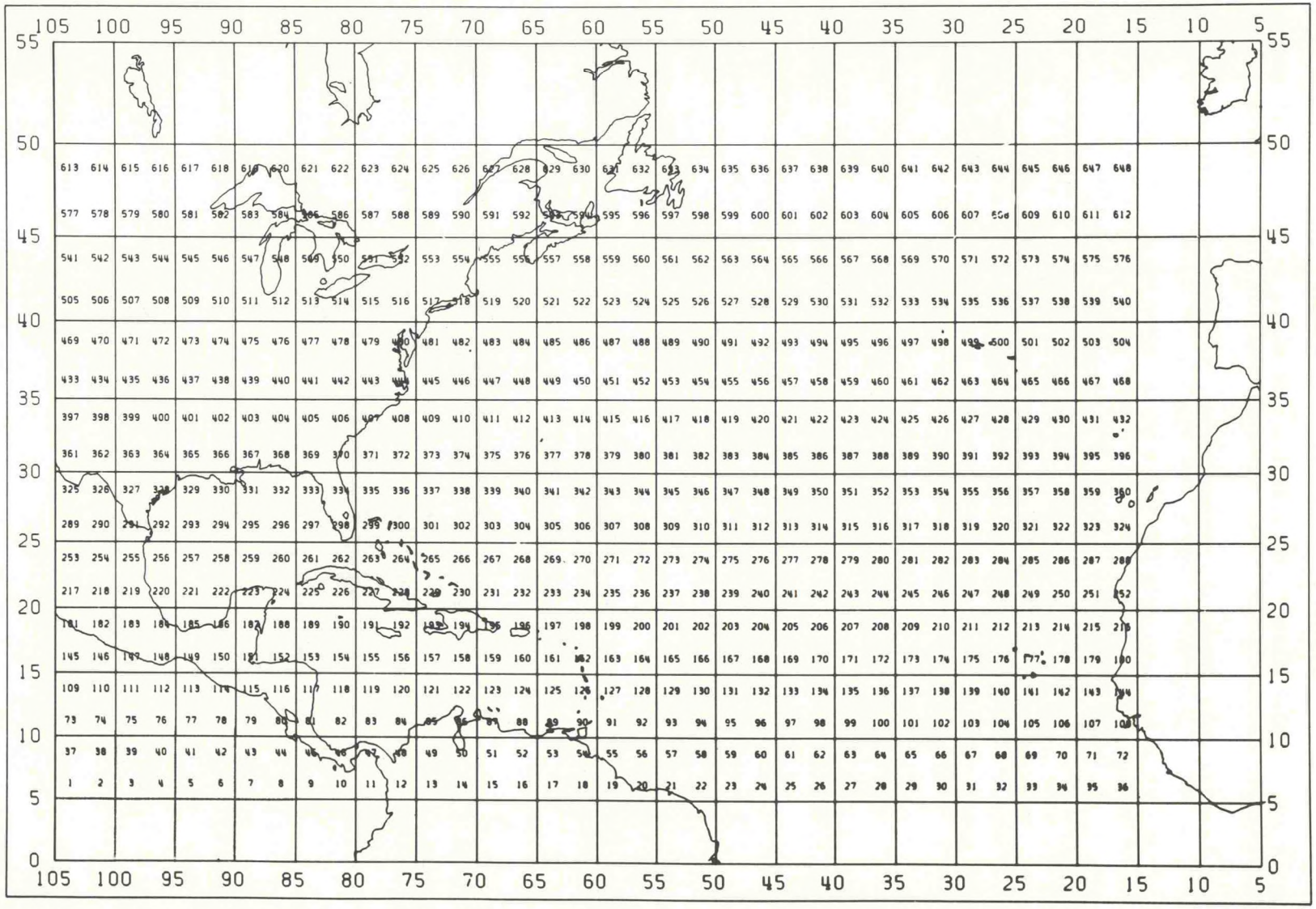
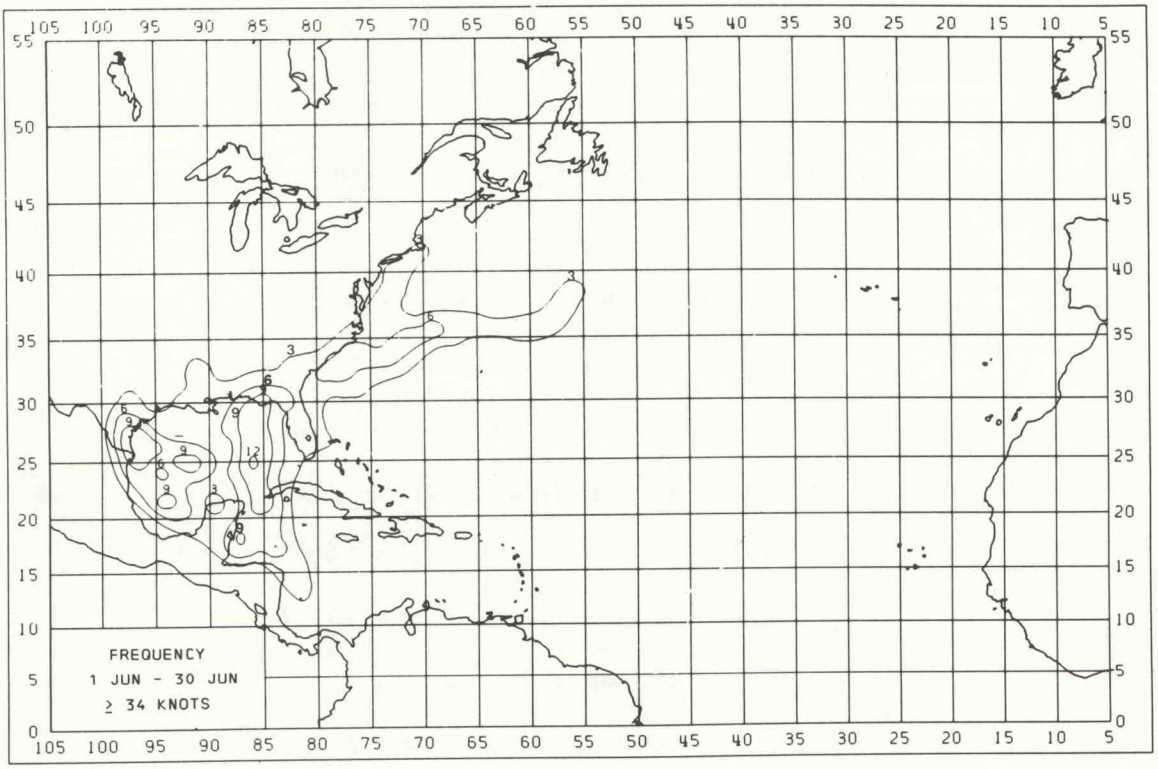
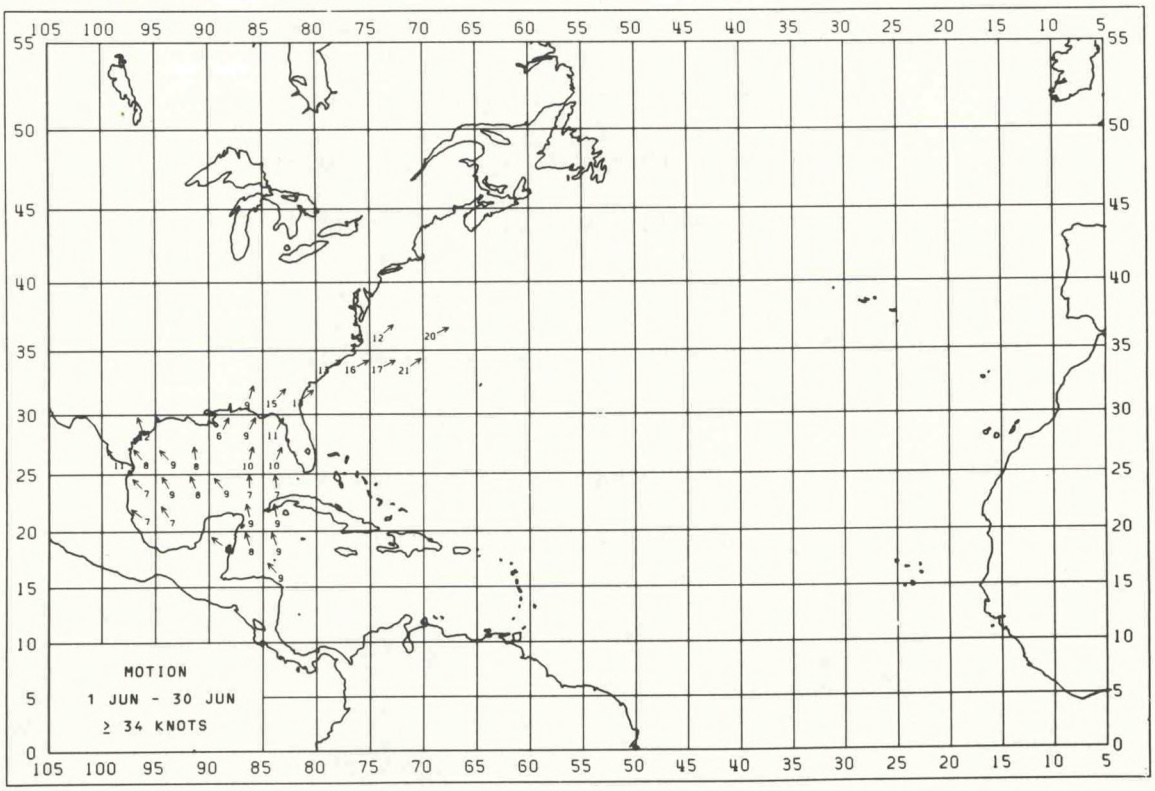


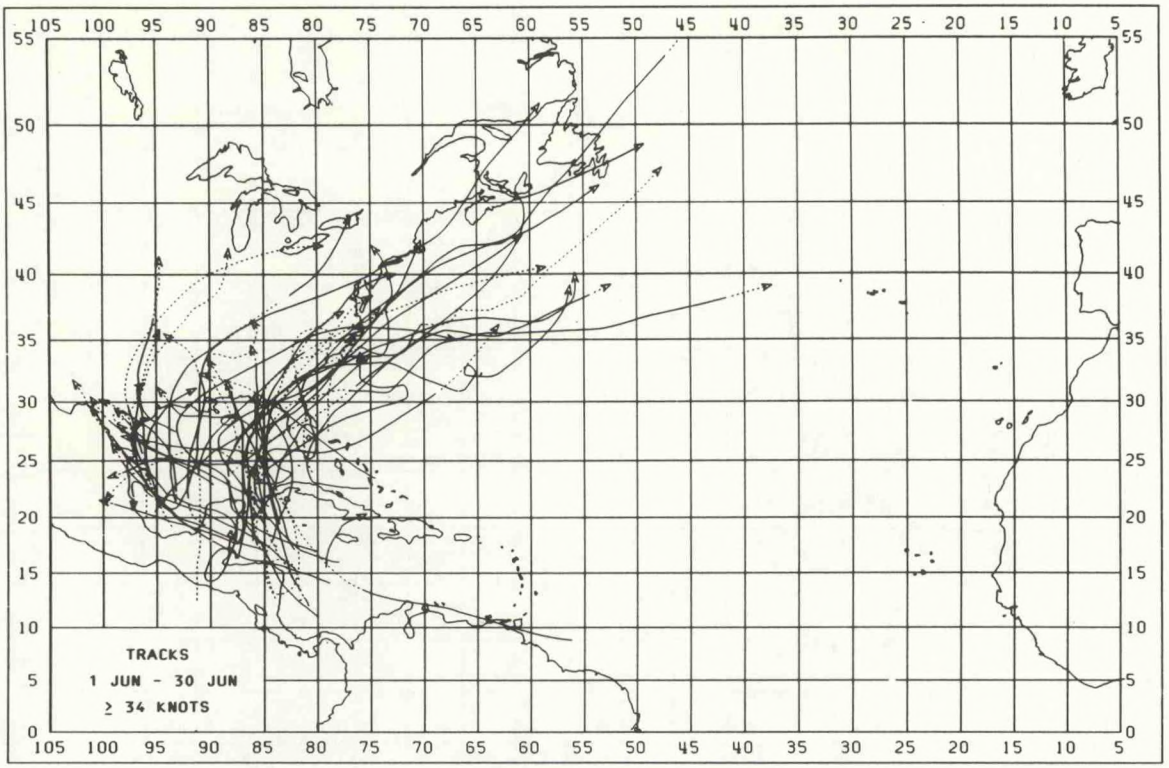

Figure 1.--Index numbers for 2 1/2-degree latitude/longitude boxes.

## A.3 Chart Series A

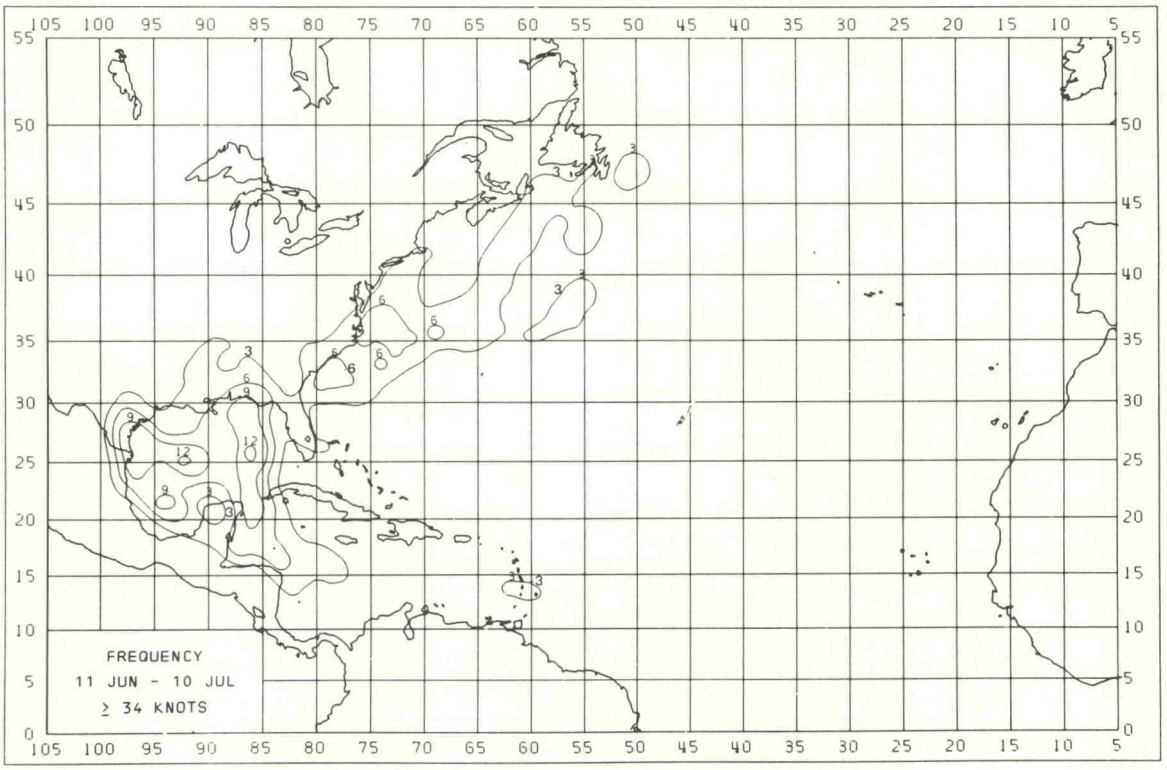
Charts and tabular data in this series are based on portions of storm tracks having intensities of at least 34 knots and for the following periods:

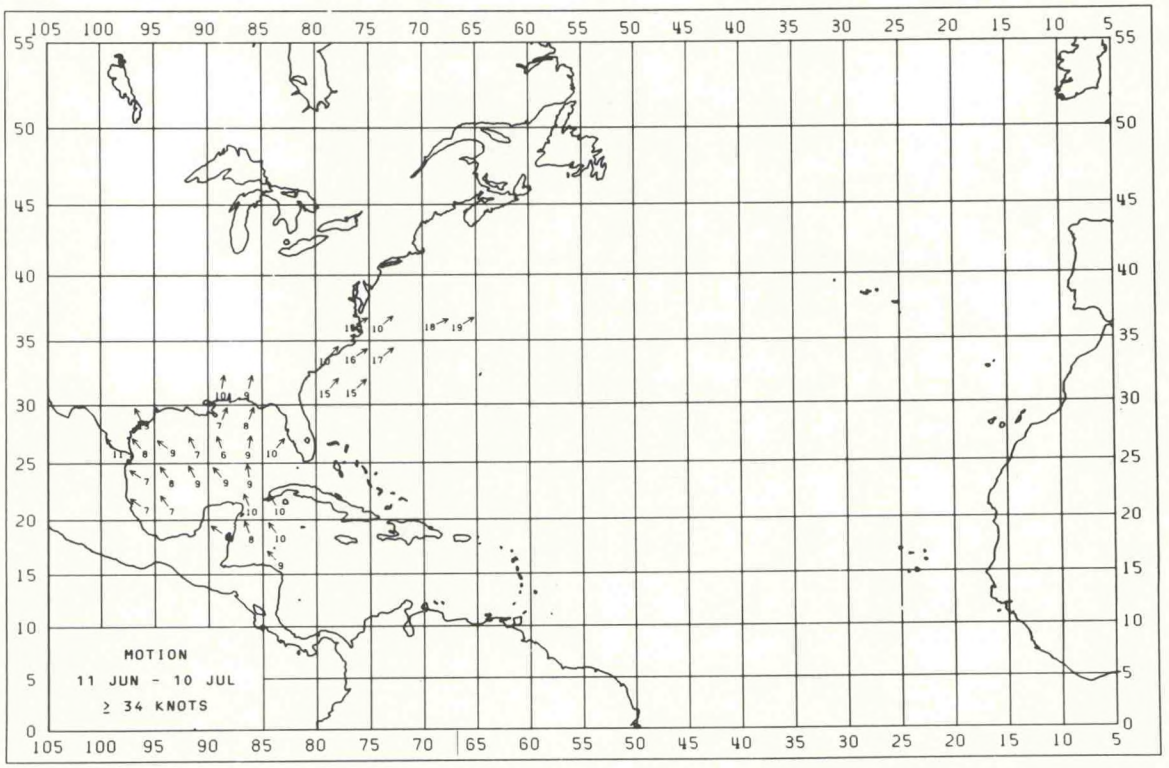

FREQUENCY
1 JUN - 30 JUN
≥ 34 KNOTS


MOTION
1 JUN - 30 JUN
≥ 34 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 153 | 6 | 319 | 9 | 9 | 2.34 |
| 187 | 6 | 308 | 8 | 9 | 2.79 |
| 188 | 7 | 343 | 8 | 10 | 2.48 |
| 189 | 6 | 339 | 9 | 9 | 3.73 |
| 220 | 5 | 307 | 7 | 8 | 3.05 |
| 221 | 9 | 326 | 7 | 9 | 3.97 |
| 224 | 9 | 347 | 9 | 11 | 3.04 |
| 225 | 9 | 350 | 9 | 10 | 3.15 |
| 256 | 8 | 316 | 7 | 8 | 3.23 |
| 257 | 6 | 330 | 9 | 10 | 3.88 |
| 258 | 8 | 337 | 8 | 10 | 5.48 |
| 259 | 5 | 322 | 9 | 10 | 4.88 |
| 260 | 11 | 358 | 7 | 9 | 4.46 |
| 261 | 7 | 354 | 7 | 8 | 3.29 |
| 291 | 6 | 323 | 11 | 11 | 3.79 |
| 292 | 11 | 322 | 8 | 9 | 4.42 |
| 293 | 8 | 316 | 9 | 10 | 2.84 |
| 294 | 6 | 353 | 8 | 11 | 5.23 |
| 296 | 12 | 014 | 10 | 12 | 7.95 |
| 297 | 8 | 022 | 10 | 13 | 8.83 |
| 328 | 5 | 341 | 12 | 13 | 3.99 |
| 331 | 5 | 027 | 6 | 12 | 3.89 |
| 332 | 12 | 026 | 9 | 12 | 6.76 |
| 333 | 7 | 031 | 11 | 15 | 6.62 |
| 368 | 6 | 016 | 9 | 12 | 6.55 |
| 369 | 6 | 043 | 15 | 15 | 7.48 |
| 370 | 6 | 050 | 13 | 14 | 5.95 |
| 407 | 5 | 060 | 13 | 14 | 4.48 |
| 408 | 7 | 063 | 16 | 17 | 10.34 |
| 409 | 7 | 064 | 17 | 19 | 14.73 |
| 410 | 5 | 055 | 21 | 21 | 16.66 |
| 445 | 5 | 050 | 12 | 14 | 4.97 |
| 447 | 6 | 066 | 20 | 21 | 20.21 |


FREQUENCY
11 JUN - 10 JUL
≥ 34 KNOTS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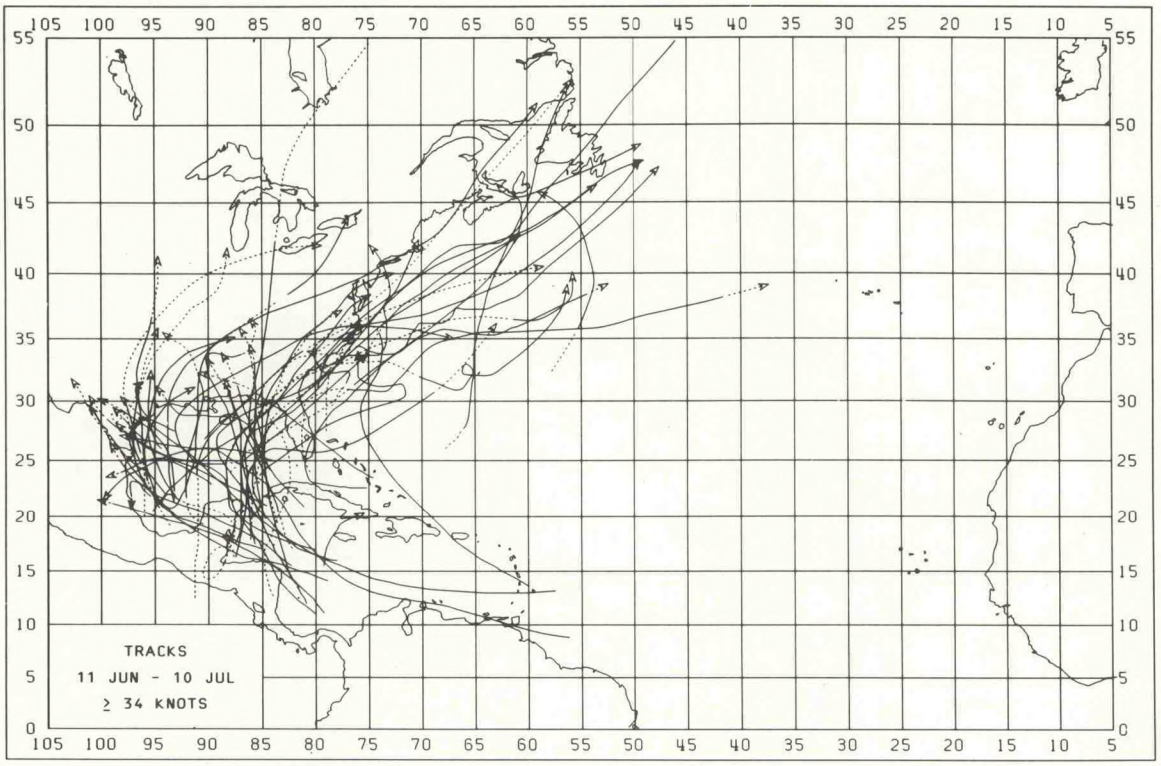
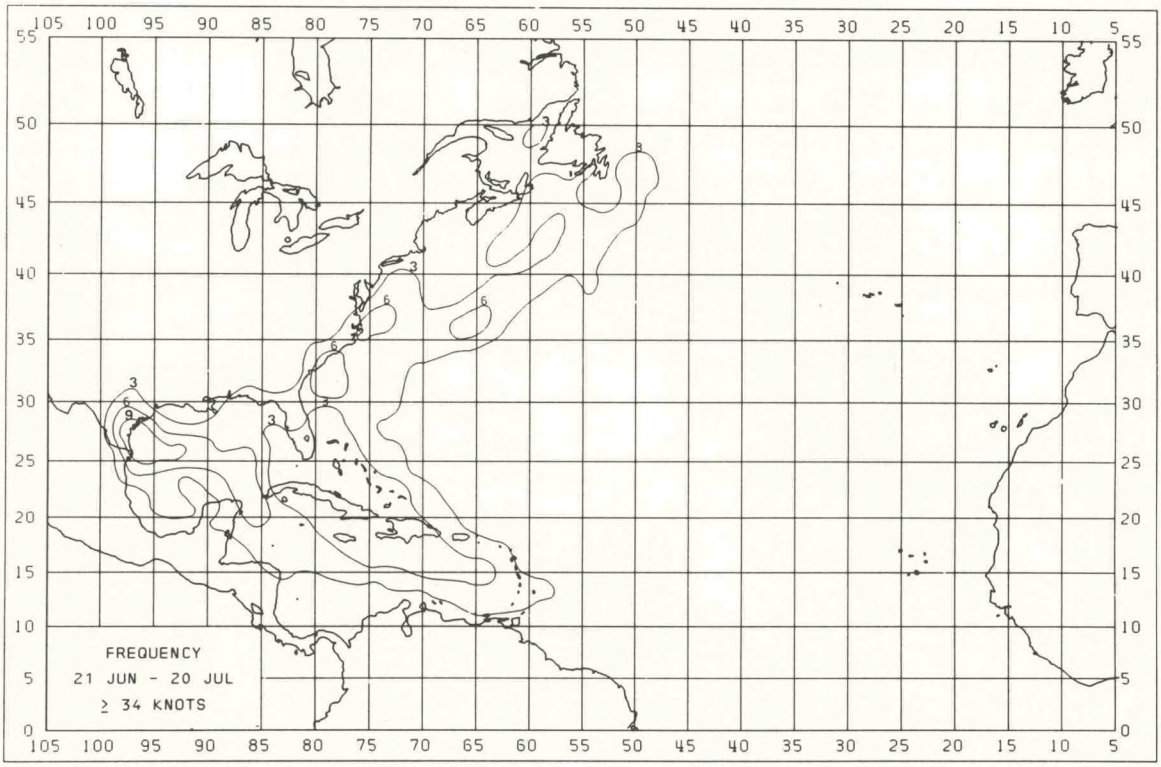
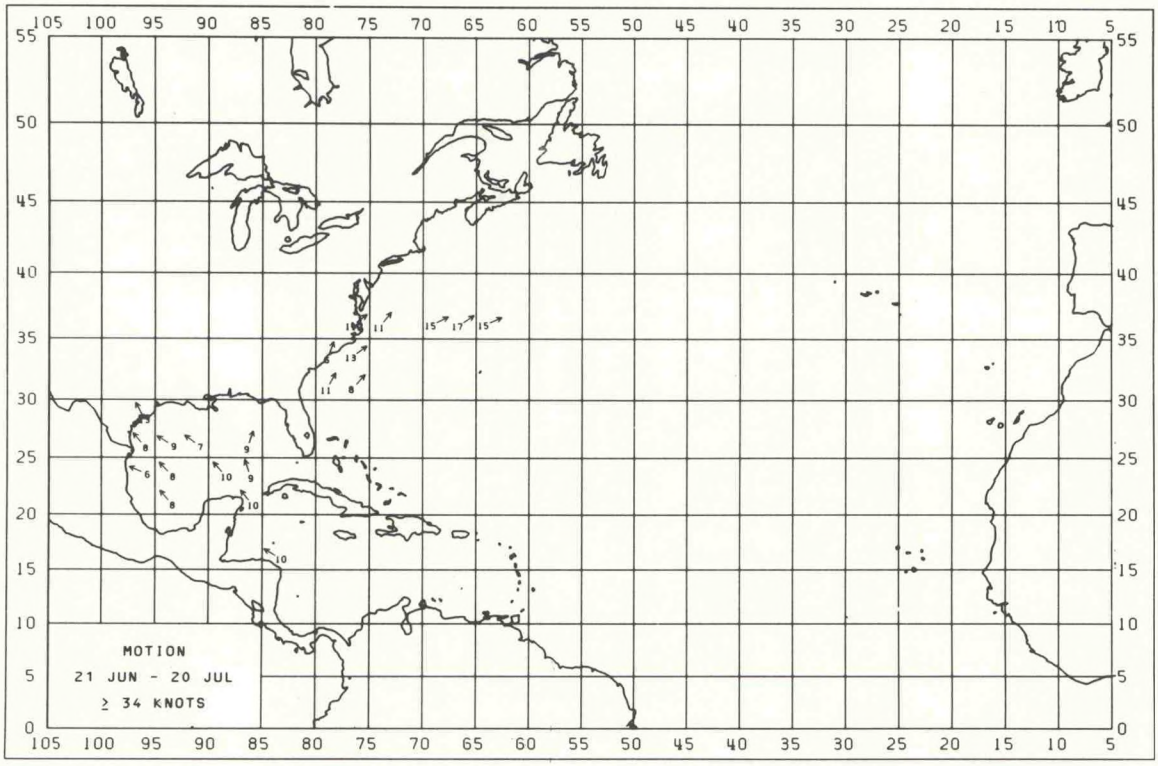
11 JUN - 10 JUL
≥ 34 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 153 | 7 | 318 | 9 | 9 | 2.26 |
| 187 | 5 | 305 | 8 | 9 | 2.91 |
| 188 | 8 | 341 | 8 | 9 | 2.79 |
| 189 | 5 | 326 | 10 | 10 | 3.10 |
| 220 | 5 | 307 | 7 | 8 | 3.05 |
| 221 | 9 | 326 | 7 | 9 | 3.97 |
| 224 | 10 | 338 | 10 | 11 | 2.79 |
| 225 | 6 | 330 | 10 | 10 | 3.12 |
| 256 | 9 | 304 | 7 | 9 | 3.21 |
| 257 | 6 | 326 | 8 | 10 | 3.72 |
| 258 | 9 | 333 | 9 | 10 | 5.10 |
| 259 | 6 | 321 | 9 | 10 | 4.11 |
| 260 | 10 | 353 | 9 | 10 | 4.05 |
| 291 | 6 | 323 | 11 | 11 | 3.79 |
| 292 | 12 | 321 | 8 | 9 | 4.47 |
| 293 | 10 | 309 | 9 | 11 | 3.10 |
| 294 | 9 | 336 | 7 | 11 | 4.58 |
| 295 | 6 | 341 | 6 | 9 | 2.29 |
| 296 | 12 | 007 | 9 | 11 | 7.15 |
| 297 | 6 | 039 | 10 | 13 | 10.82 |
| 328 | 6 | 334 | 13 | 14 | 3.61 |
| 331 | 8 | 022 | 7 | 11 | 3.18 |
| 332 | 12 | 021 | 8 | 10 | 4.63 |
| 367 | 5 | 010 | 10 | 13 | 6.40 |
| 368 | 8 | 014 | 9 | 11 | 5.91 |
| 371 | 6 | 043 | 15 | 16 | 12.26 |
| 372 | 6 | 049 | 15 | 16 | 11.29 |
| 407 | 6 | 042 | 10 | 11 | 4.70 |
| 408 | 5 | 056 | 16 | 17 | 12.92 |
| 409 | 6 | 052 | 17 | 18 | 16.71 |
| 444 | 6 | 059 | 15 | 16 | 3.00 |
| 445 | 9 | 049 | 10 | 12 | 4.87 |
| 447 | 6 | 066 | 18 | 19 | 19.89 |
| 448 | 6 | 058 | 19 | 20 | 19.62 |


FREQUENCY
21 JUN - 20 JUL
≥ 34 KNOTS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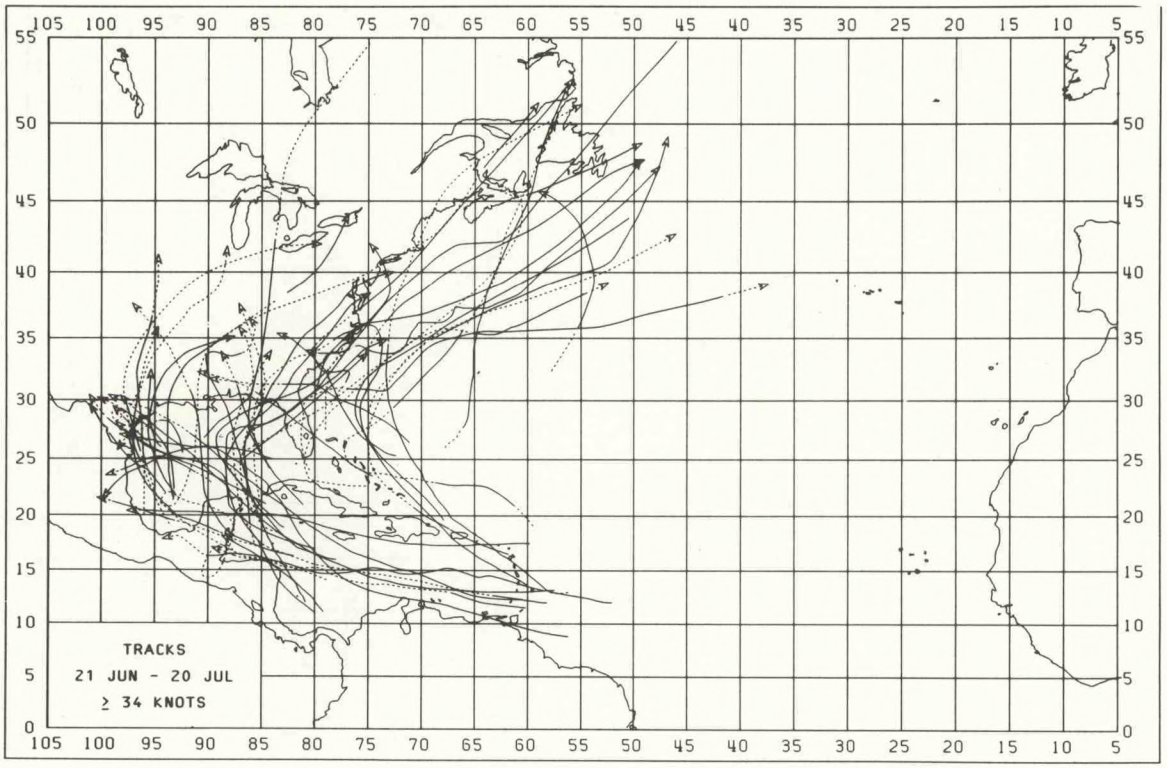
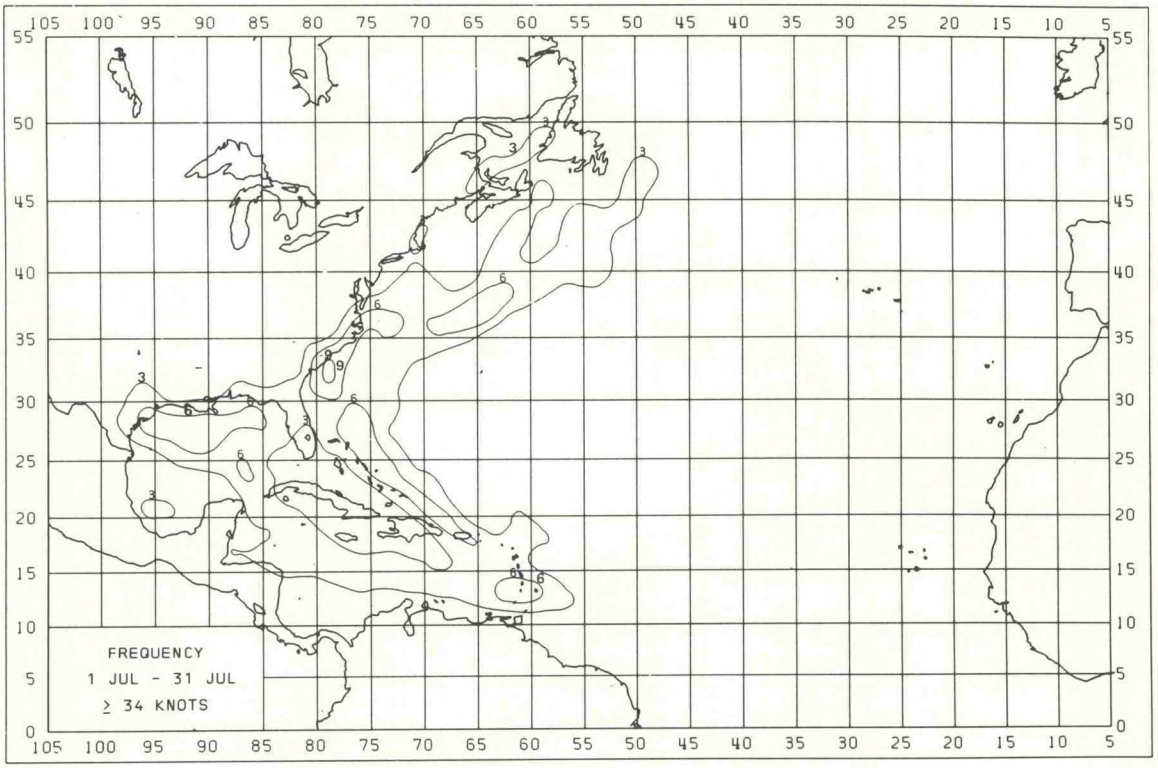
≥ 34 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 153 | 5 | 301 | 10 | 10 | 3.47 |
| 221 | 5 | 321 | 8 | 10 | 4.59 |
| 224 | 8 | 321 | 10 | 11 | 2.12 |
| 256 | 6 | 293 | 6 | 8 | 2.77 |
| 257 | 5 | 317 | 8 | 10 | 2.63 |
| 259 | 6 | 319 | 10 | 11 | 3.13 |
| 260 | 8 | 342 | 9 | 11 | 4.34 |
| 292 | 11 | 321 | 8 | 9 | 4.47 |
| 293 | 9 | 303 | 9 | 10 | 3.08 |
| 294 | 8 | 308 | 7 | 9 | 3.17 |
| 296 | 6 | 018 | 9 | 12 | 10.47 |
| 328 | 6 | 334 | 13 | 14 | 3.61 |
| 371 | 8 | 029 | 11 | 14 | 10.56 |
| 372 | 5 | 042 | 8 | 10 | 8.73 |
| 407 | 7 | 018 | 6 | 9 | 4.60 |
| 408 | 5 | 052 | 13 | 16 | 14.23 |
| 444 | 6 | 052 | 11 | 14 | 5.08 |
| 445 | 7 | 038 | 11 | 12 | 4.17 |
| 447 | 5 | 063 | 15 | 15 | 7.37 |
| 448 | 8 | 056 | 17 | 18 | 8.88 |
| 449 | 7 | 066 | 15 | 16 | 8.05 |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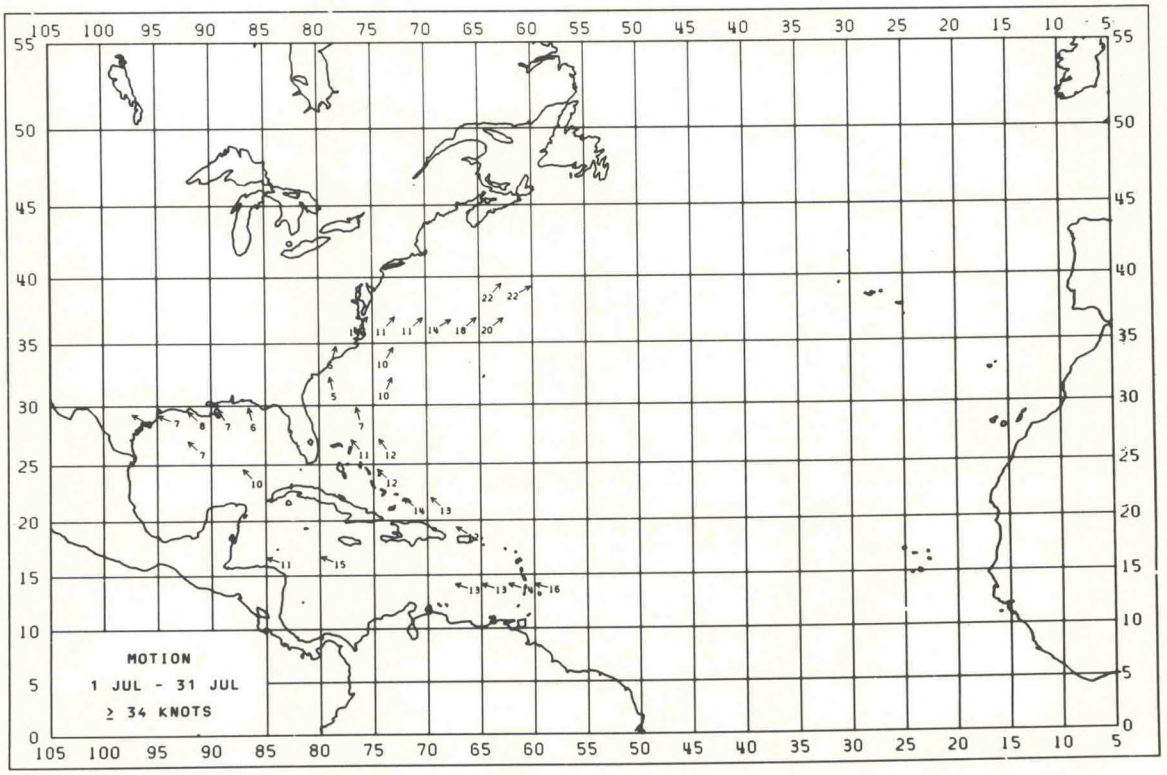
≥ 34 KNOTS


MOTION
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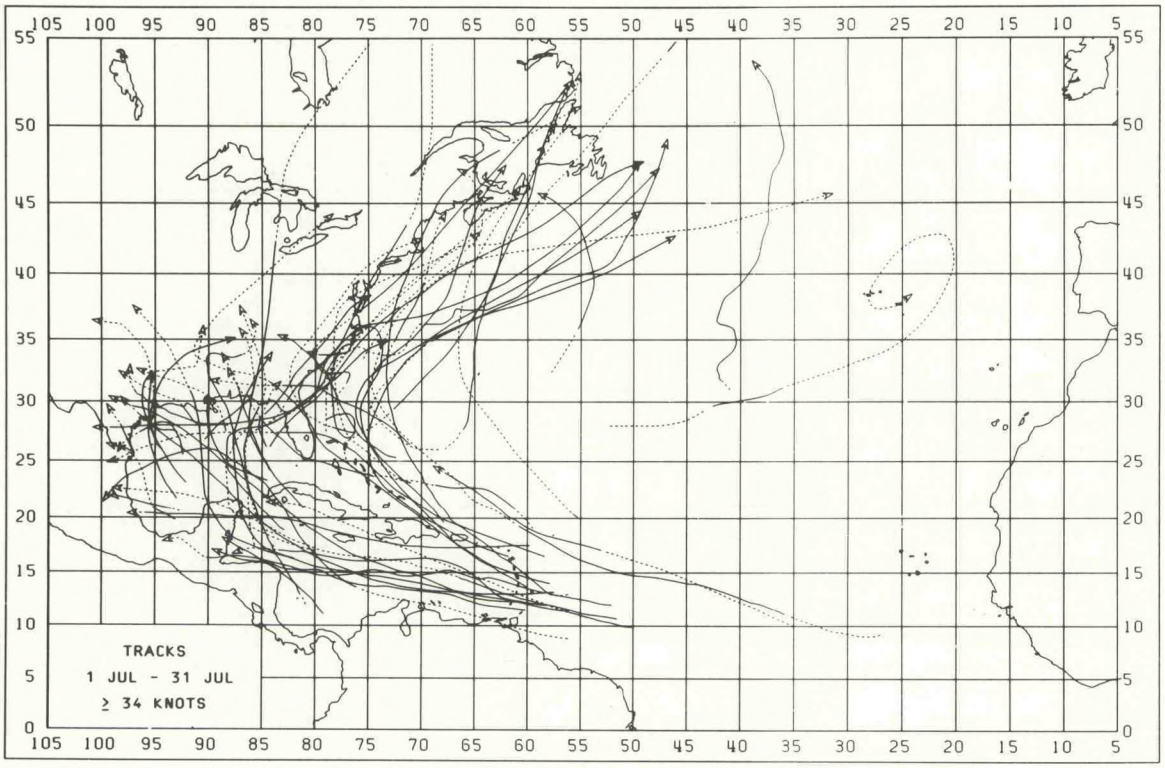


| A | B | C | D | E | F |
|---|---|---|---|---|---|
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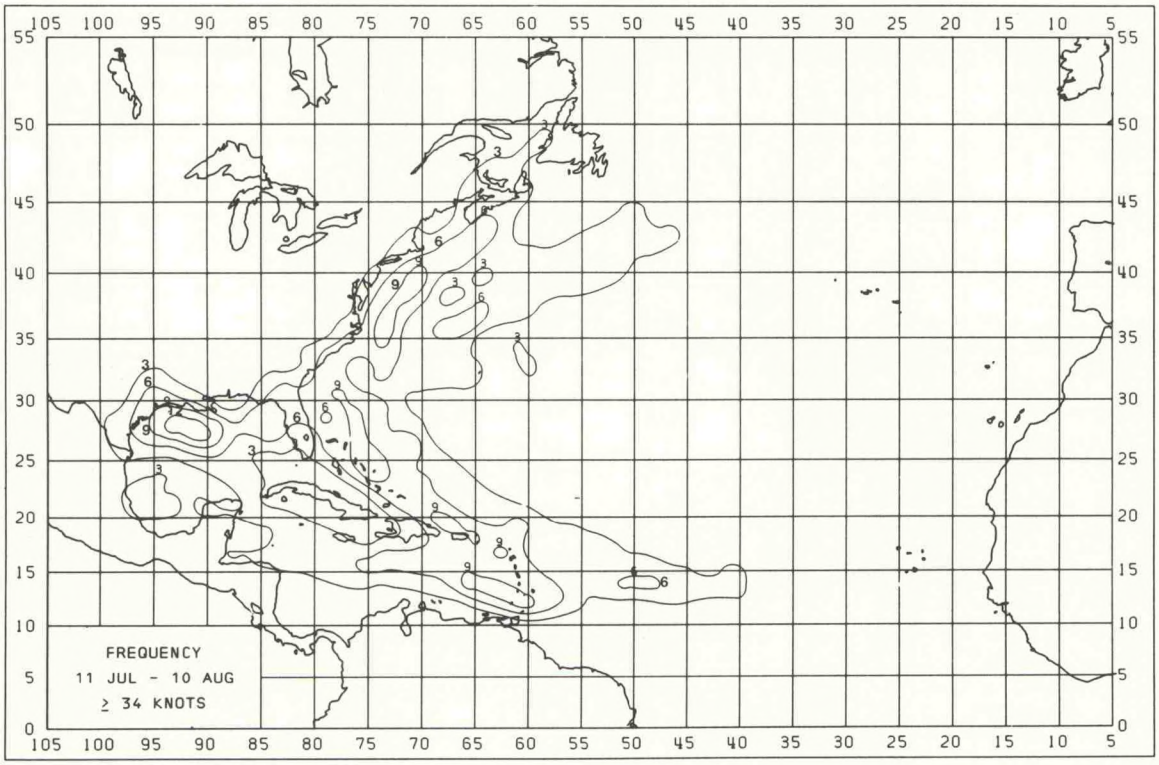
| 125 | 5 | 287 | 13 | 13 | 4.31 |
| 126 | 7 | 288 | 14 | 14 | 4.35 |
| 127 | 6 | 286 | 16 | 16 | 8.60 |
| 153 | 6 | 289 | 11 | 11 | 3.54 |
| 155 | 6 | 292 | 15 | 16 | 4.08 |
| 196 | 6 | 302 | 12 | 12 | 3.62 |
| 230 | 6 | 310 | 14 | 14 | 5.27 |
| 231 | 5 | 313 | 13 | 13 | 6.84 |
| 260 | 6 | 318 | 10 | 11 | 3.09 |
| 265 | 8 | 315 | 12 | 12 | 4.72 |
| 294 | 7 | 314 | 7 | 10 | 3.56 |
| 300 | 8 | 320 | 11 | 12 | 6.00 |
| 301 | 5 | 325 | 12 | 13 | 3.98 |
| 328 | 7 | 299 | 9 | 11 | 4.53 |
| 329 | 6 | 292 | 7 | 7 | 2.34 |
| 330 | 6 | 314 | 8 | 10 | 4.09 |
| 331 | 7 | 331 | 7 | 11 | 2.81 |
| 332 | 7 | 346 | 6 | 10 | 2.20 |
| 336 | 8 | 345 | 7 | 10 | 3.96 |
| 371 | 8 | 347 | 5 | 9 | 3.64 |
| 373 | 5 | 023 | 10 | 11 | 3.85 |
| 407 | 9 | 015 | 5 | 9 | 6.57 |
| 409 | 5 | 031 | 10 | 11 | 2.51 |
| 444 | 7 | 041 | 14 | 16 | 8.00 |
| 445 | 7 | 041 | 11 | 13 | 7.26 |
| 446 | 5 | 049 | 11 | 12 | 6.39 |
| 447 | 7 | 060 | 14 | 14 | 5.74 |
| 448 | 7 | 050 | 18 | 19 | 9.81 |
| 449 | 7 | 052 | 20 | 21 | 10.84 |
| 485 | 5 | 042 | 22 | 24 | 11.12 |
| 486 | 6 | 061 | 22 | 23 | 8.65 |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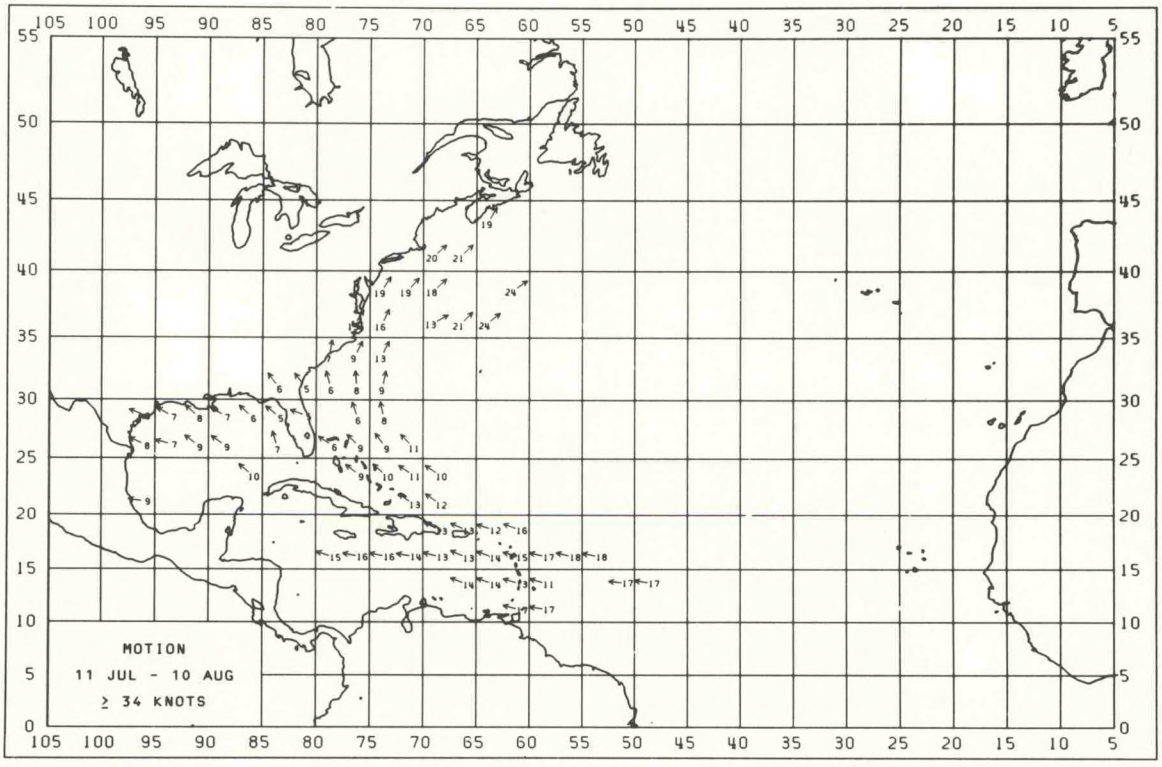
≥ 34 KNOTS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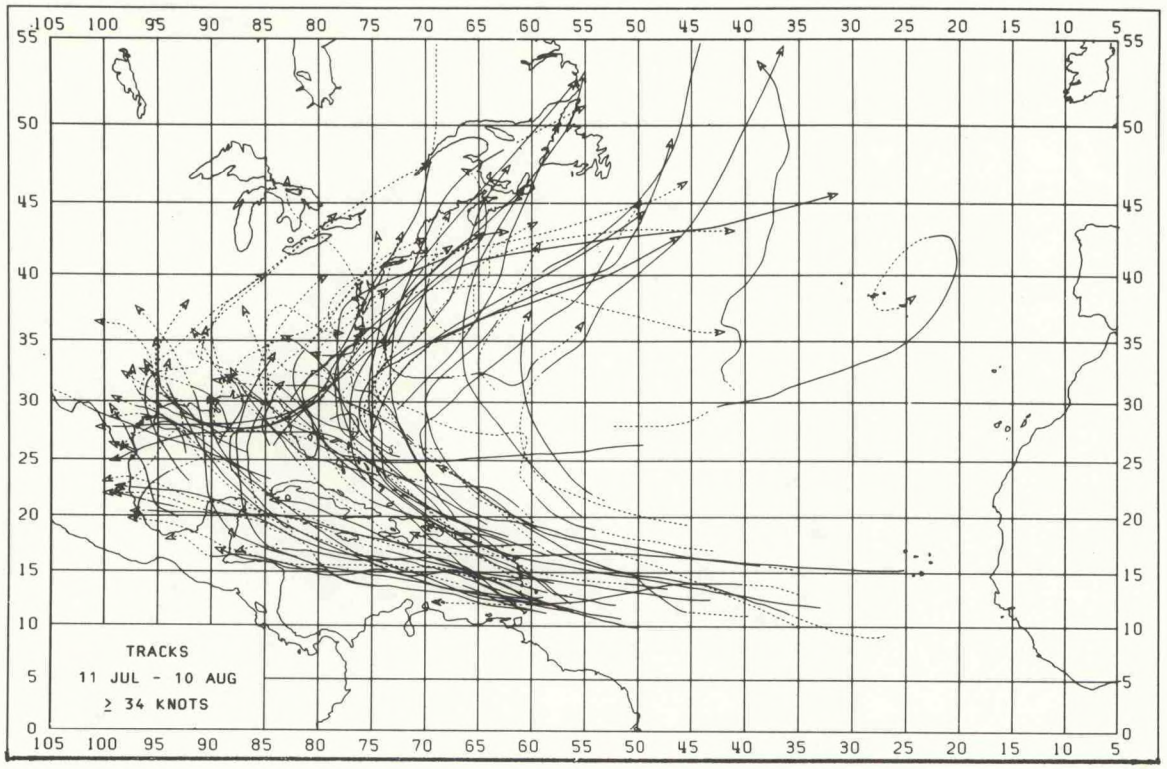
≥ 34 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 90 | 6 | 285 | 17 | 17 | 4.95 |
| 91 | 6 | 278 | 17 | 17 | 6.53 |
| 124 | 10 | 291 | 14 | 15 | 5.27 |
| 125 | 10 | 290 | 14 | 15 | 4.27 |
| 126 | 9 | 287 | 13 | 14 | 4.02 |
| 127 | 7 | 286 | 11 | 12 | 3.77 |
| 130 | 7 | 275 | 17 | 17 | 3.96 |
| 131 | 7 | 279 | 17 | 17 | 2.21 |
| 155 | 6 | 287 | 15 | 15 | 5.67 |
| 156 | 6 | 281 | 16 | 16 | 6.39 |
| 157 | 7 | 281 | 16 | 16 | 6.12 |
| 158 | 7 | 279 | 14 | 14 | 6.09 |
| 159 | 7 | 283 | 13 | 13 | 4.45 |
| 160 | 8 | 292 | 13 | 14 | 2.41 |
| 161 | 7 | 289 | 14 | 15 | 2.68 |
| 162 | 7 | 285 | 15 | 15 | 3.14 |
| 163 | 5 | 283 | 17 | 17 | 3.66 |
| 164 | 5 | 283 | 18 | 19 | 5.65 |
| 165 | 5 | 281 | 18 | 18 | 3.85 |
| 195 | 8 | 298 | 13 | 13 | 2.20 |
| 196 | 9 | 293 | 13 | 13 | 3.76 |
| 197 | 7 | 288 | 12 | 13 | 4.01 |
| 198 | 7 | 290 | 16 | 16 | 5.44 |
| 220 | 5 | 279 | 9 | 11 | 3.12 |
| 230 | 7 | 305 | 13 | 13 | 2.07 |
| 231 | 8 | 306 | 12 | 12 | 4.41 |
| 260 | 5 | 311 | 10 | 11 | 3.41 |
| 264 | 7 | 308 | 9 | 9 | 2.43 |
| 265 | 10 | 311 | 10 | 11 | 2.98 |
| 266 | 7 | 304 | 11 | 12 | 2.96 |
| 267 | 6 | 304 | 10 | 10 | 2.82 |
| 292 | 6 | 297 | 8 | 10 | 2.62 |
| 293 | 6 | 285 | 7 | 9 | 3.17 |
| 294 | 8 | 310 | 9 | 10 | 3.78 |
| 295 | 7 | 307 | 9 | 10 | 4.08 |
| 297 | 5 | 345 | 7 | 9 | 3.37 |
| 299 | 7 | 305 | 6 | 6 | 1.63 |
| 300 | 10 | 317 | 9 | 10 | 5.19 |
| 301 | 8 | 324 | 9 | 10 | 4.08 |
| 302 | 7 | 318 | 11 | 12 | 7.28 |
| 328 | 8 | 291 | 9 | 10 | 3.97 |
| 329 | 13 | 300 | 7 | 8 | 3.58 |
| 330 | 11 | 313 | 8 | 9 | 4.32 |
| 331 | 6 | 301 | 7 | 10 | 4.03 |
| 332 | 7 | 313 | 6 | 8 | 2.78 |
| 333 | 7 | 310 | 5 | 10 | 3.72 |
| 334 | 8 | 290 | 5 | 10 | 4.09 |
| 336 | 10 | 342 | 6 | 8 | 2.69 |
| 337 | 7 | 348 | 8 | 9 | 3.88 |
| 369 | 6 | 324 | 6 | 8 | 3.37 |
| 370 | 5 | 322 | 5 | 12 | 3.74 |
| 371 | 9 | 345 | 6 | 10 | 3.80 |
| 372 | 6 | 356 | 8 | 9 | 4.22 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 373 | 6 | 011 | 9 | 10 | 4.72 |
| 407 | 8 | 010 | 7 | 11 | 7.32 |
| 408 | 6 | 026 | 9 | 12 | 6.43 |
| 409 | 8 | 025 | 13 | 14 | 7.09 |
| 444 | 5 | 031 | 13 | 16 | 9.67 |
| 445 | 10 | 026 | 16 | 18 | 8.00 |
| 447 | 7 | 060 | 13 | 15 | 5.87 |
| 448 | 6 | 044 | 21 | 23 | 7.21 |
| 449 | 5 | 051 | 24 | 25 | 8.54 |
| 481 | 6 | 034 | 19 | 20 | 5.44 |
| 482 | 10 | 042 | 19 | 21 | 8.68 |
| 483 | 5 | 047 | 18 | 20 | 11.40 |
| 486 | 5 | 056 | 24 | 26 | 6.79 |
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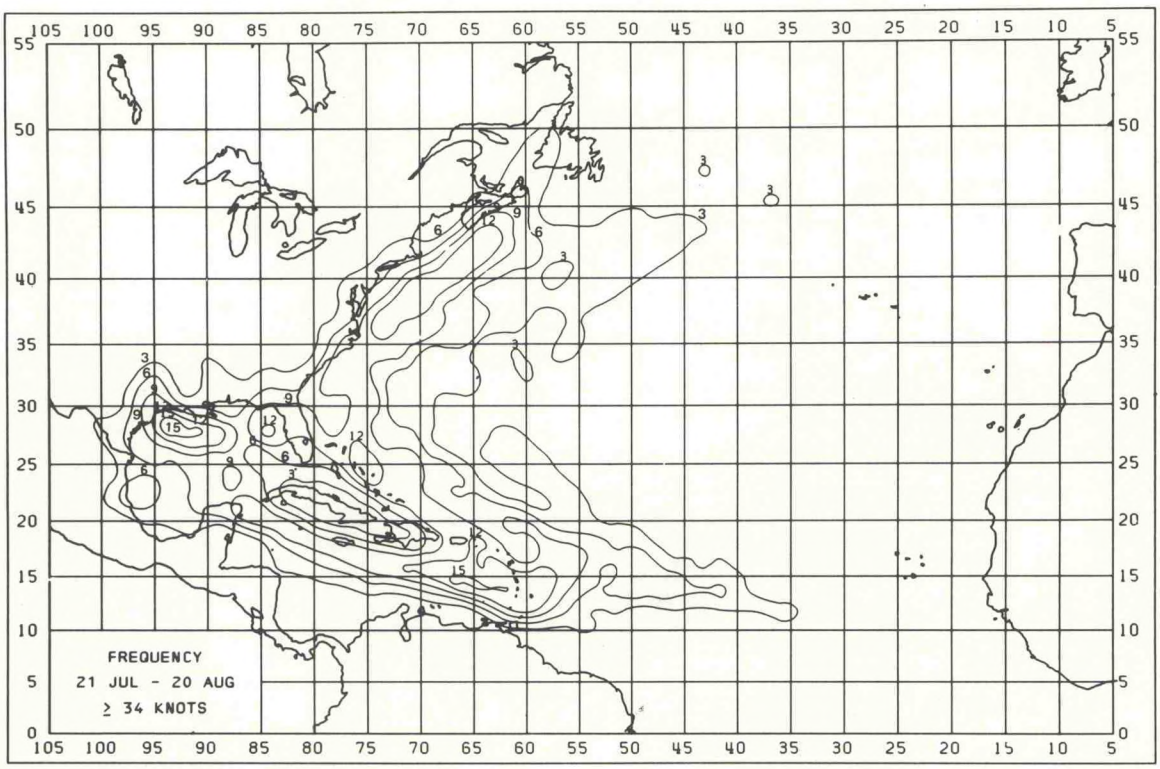
| 520 | 7 | 046 | 21 | 22 | 7.27 |
| 557 | 6 | 031 | 19 | 21 | 10.04 |


FREQUENCY
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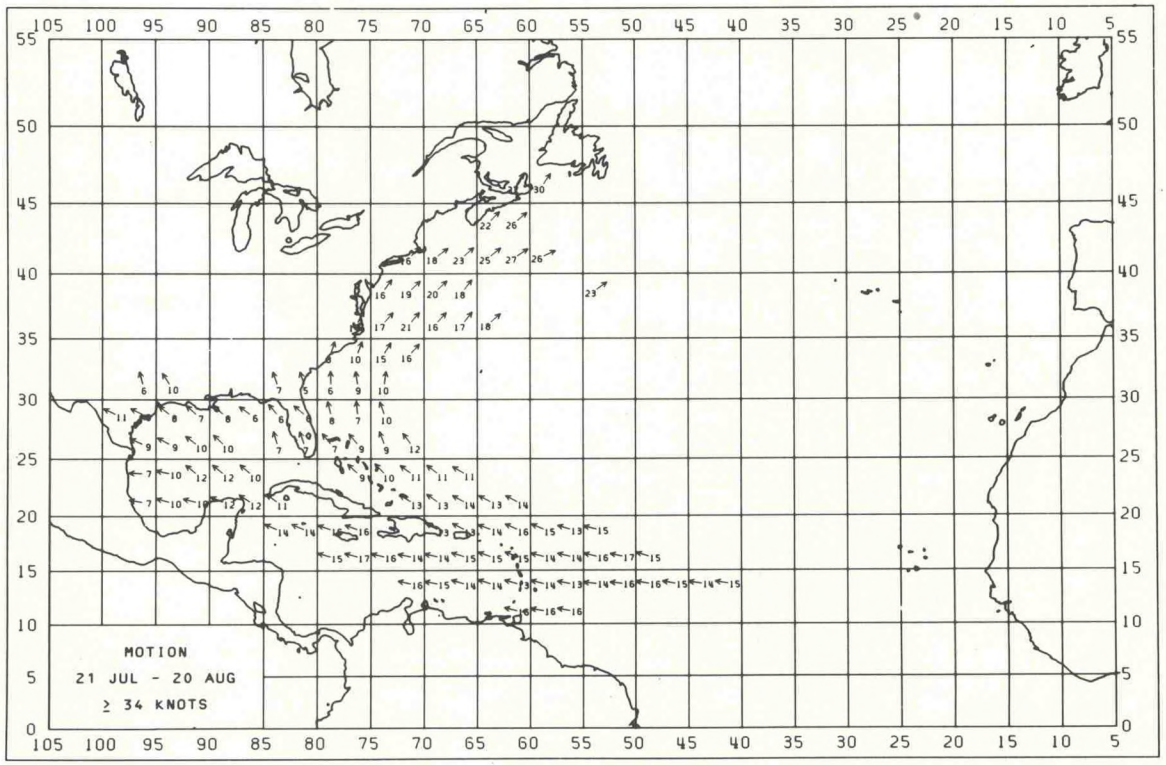
≥ 34 KNOTS


MOTION
21 JUL - 20 AUG
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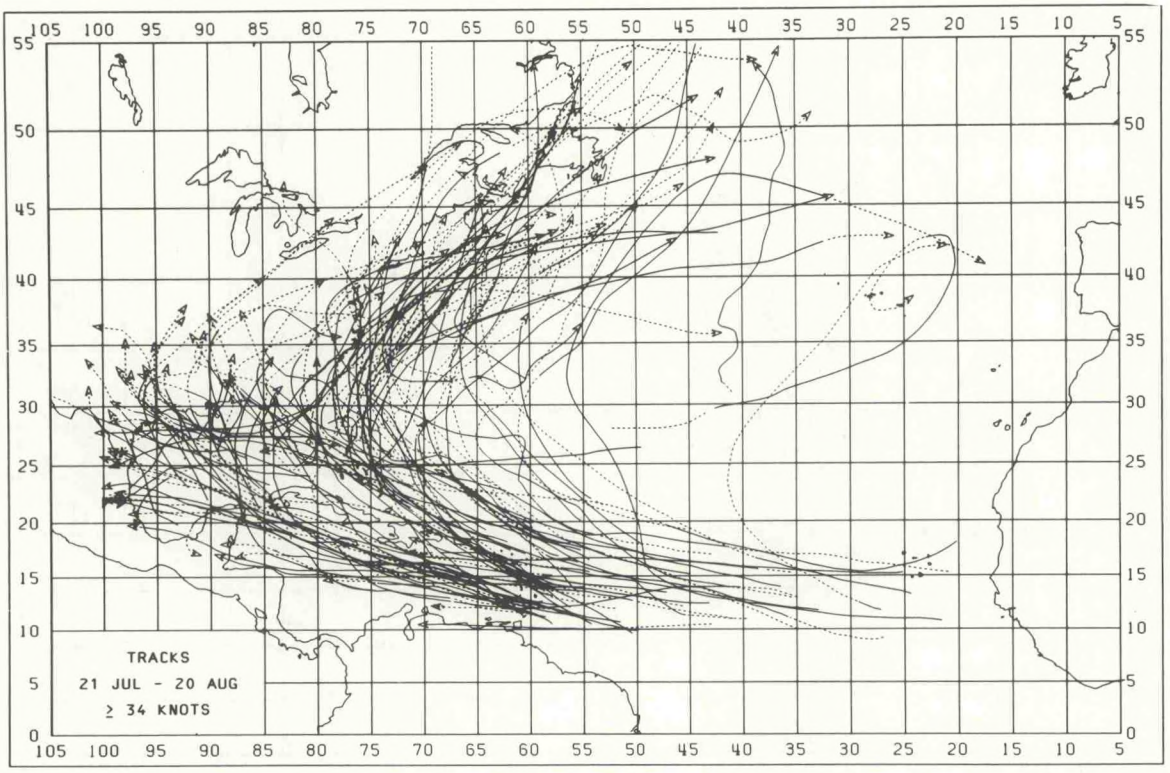


| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 90 | 9 | 284 | 16 | 17 | 5.27 |
| 91 | 9 | 279 | 16 | 16 | 5.74 |
| 92 | 6 | 280 | 16 | 16 | 6.63 |
| 122 | 5 | 283 | 16 | 16 | 6.78 |
| 123 | 7 | 281 | 15 | 16 | 6.14 |
| 124 | 14 | 287 | 14 | 14 | 4.92 |
| 125 | 15 | 288 | 14 | 14 | 3.75 |
| 126 | 15 | 286 | 13 | 14 | 3.04 |
| 127 | 14 | 285 | 14 | 14 | 3.74 |
| 128 | 8 | 281 | 13 | 14 | 4.12 |
| 129 | 6 | 276 | 14 | 14 | 3.29 |
| 130 | 8 | 276 | 16 | 17 | 3.67 |
| 131 | 7 | 279 | 16 | 17 | 2.26 |
| 132 | 7 | 280 | 15 | 15 | 2.41 |
| 133 | 6 | 278 | 14 | 15 | 1.75 |
| 134 | 6 | 279 | 15 | 15 | 2.11 |
| 155 | 7 | 286 | 15 | 15 | 5.92 |
| 156 | 10 | 285 | 17 | 17 | 6.04 |
| 157 | 11 | 284 | 16 | 16 | 5.72 |
| 158 | 11 | 281 | 14 | 14 | 5.78 |
| 159 | 13 | 283 | 14 | 15 | 5.98 |
| 160 | 13 | 287 | 15 | 15 | 4.51 |
| 161 | 12 | 290 | 15 | 16 | 3.24 |
| 162 | 10 | 290 | 15 | 15 | 1.62 |
| 163 | 10 | 285 | 14 | 14 | 4.82 |
| 164 | 10 | 284 | 14 | 15 | 6.47 |
| 165 | 8 | 284 | 16 | 16 | 4.34 |
| 166 | 6 | 282 | 17 | 17 | 4.36 |
| 167 | 7 | 287 | 15 | 16 | 5.08 |
| 189 | 7 | 295 | 14 | 14 | 4.60 |
| 190 | 11 | 294 | 14 | 14 | 3.84 |
| 191 | 9 | 289 | 16 | 16 | 3.97 |
| 192 | 6 | 289 | 16 | 16 | 2.42 |
| 195 | 8 | 299 | 13 | 13 | 2.67 |
| 196 | 11 | 298 | 13 | 14 | 2.66 |
| 197 | 9 | 291 | 14 | 14 | 3.52 |
| 198 | 9 | 294 | 16 | 16 | 5.11 |
| 199 | 9 | 294 | 15 | 15 | 5.69 |
| 200 | 7 | 287 | 13 | 13 | 2.09 |
| 201 | 6 | 284 | 15 | 16 | 4.17 |
| 220 | 6 | 280 | 7 | 9 | 3.21 |
| 221 | 6 | 286 | 10 | 10 | 3.14 |
| 222 | 7 | 285 | 10 | 11 | 2.79 |
| 223 | 8 | 293 | 12 | 12 | 3.99 |
| 224 | 11 | 305 | 12 | 13 | 4.11 |
| 225 | 6 | 306 | 11 | 11 | 3.74 |
| 230 | 8 | 302 | 13 | 13 | 2.61 |
| 231 | 11 | 306 | 13 | 13 | 3.34 |
| 232 | 7 | 300 | 14 | 14 | 5.50 |
| 233 | 7 | 299 | 13 | 14 | 7.58 |
| 234 | 6 | 298 | 14 | 15 | 5.99 |
| 256 | 6 | 273 | 7 | 9 | 2.76 |
| 257 | 6 | 283 | 10 | 12 | 7.18 |
| 258 | 7 | 308 | 12 | 12 | 5.31 |
| 259 | 8 | 309 | 12 | 13 | 3.80 |
| 260 | 8 | 310 | 10 | 10 | 3.37 |
| 264 | 9 | 313 | 9 | 10 | 2.58 |
| 265 | 12 | 316 | 10 | 11 | 3.16 |
| 266 | 10 | 306 | 11 | 12 | 4.16 |
| 267 | 8 | 306 | 11 | 11 | 4.82 |
| 268 | 6 | 300 | 11 | 11 | 6.34 |
| 292 | 8 | 295 | 9 | 10 | 4.08 |
| 293 | 8 | 299 | 9 | 11 | 4.90 |
| 294 | 10 | 307 | 10 | 11 | 3.49 |
| 295 | 10 | 314 | 10 | 11 | 3.69 |
| 297 | 7 | 344 | 7 | 9 | 2.84 |
| 298 | 6 | 341 | 7 | 10 | 5.22 |
| 299 | 10 | 322 | 7 | 8 | 4.38 |
| 300 | 12 | 320 | 9 | 10 | 4.50 |
| 301 | 10 | 339 | 9 | 11 | 5.16 |
| 302 | 10 | 323 | 12 | 13 | 7.95 |
| 327 | 5 | 295 | 11 | 12 | 3.45 |
| 328 | 10 | 296 | 9 | 10 | 3.53 |
| 329 | 17 | 308 | 8 | 9 | 3.92 |
| 330 | 12 | 311 | 7 | 9 | 4.67 |
| 331 | 9 | 311 | 8 | 9 | 3.76 |
| 332 | 8 | 306 | 6 | 8 | 2.48 |
| 333 | 11 | 320 | 6 | 9 | 2.99 |
| 334 | 11 | 310 | 6 | 10 | 3.75 |
| 335 | 6 | 347 | 8 | 9 | 4.41 |
| 336 | 10 | 355 | 7 | 8 | 2.80 |
| 337 | 7 | 341 | 10 | 11 | 4.31 |
| 364 | 7 | 346 | 6 | 7 | 2.27 |
| 365 | 6 | 328 | 10 | 11 | 5.25 |
| 369 | 7 | 342 | 7 | 9 | 3.33 |
| 370 | 6 | 342 | 5 | 12 | 4.03 |
| 371 | 10 | 359 | 6 | 10 | 3.93 |
| 372 | 9 | 352 | 9 | 10 | 2.97 |
| 373 | 9 | 007 | 10 | 11 | 4.04 |
| 407 | 7 | 016 | 8 | 12 | 7.03 |
| 408 | 11 | 019 | 10 | 11 | 5.29 |
| 409 | 9 | 029 | 15 | 16 | 6.44 |
| 410 | 8 | 039 | 16 | 17 | 7.73 |
| 444 | 8 | 028 | 14 | 14 | 8.39 |
| 445 | 14 | 042 | 17 | 19 | 7.43 |
| 446 | 11 | 040 | 21 | 22 | 8.81 |
| 447 | 11 | 041 | 16 | 18 | 7.67 |
| 448 | 8 | 038 | 17 | 19 | 9.20 |
| 449 | 5 | 049 | 18 | 19 | 11.90 |
| 481 | 7 | 034 | 16 | 17 | 7.25 |
| 482 | 14 | 045 | 19 | 20 | 8.98 |
| 483 | 14 | 044 | 20 | 22 | 9.37 |
| 484 | 9 | 036 | 18 | 20 | 8.79 |
| 489 | 6 | 053 | 23 | 25 | 3.89 |
| 518 | 6 | 046 | 16 | 18 | 6.13 |
| 519 | 9 | 053 | 18 | 19 | 5.68 |
| 520 | 15 | 048 | 23 | 24 | 8.34 |
| 521 | 12 | 051 | 25 | 27 | 14.97 |
| 522 | 8 | 056 | 27 | 29 | 15.69 |
| 523 | 6 | 066 | 26 | 27 | 14.73 |
| 557 | 12 | 044 | 22 | 23 | 11.34 |
| 558 | 9 | 049 | 26 | 27 | 10.33 |
| 594 | 6 | 032 | 27 | 28 | 8.59 |
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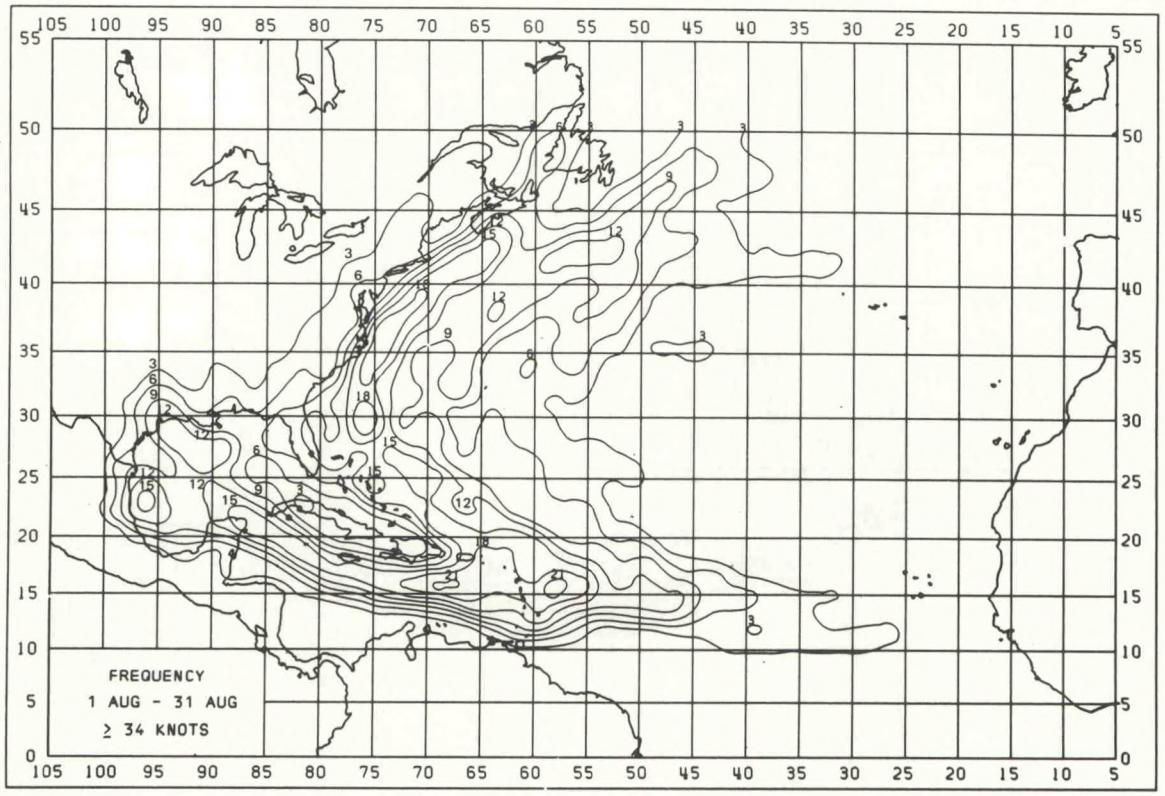
FREQUENCY
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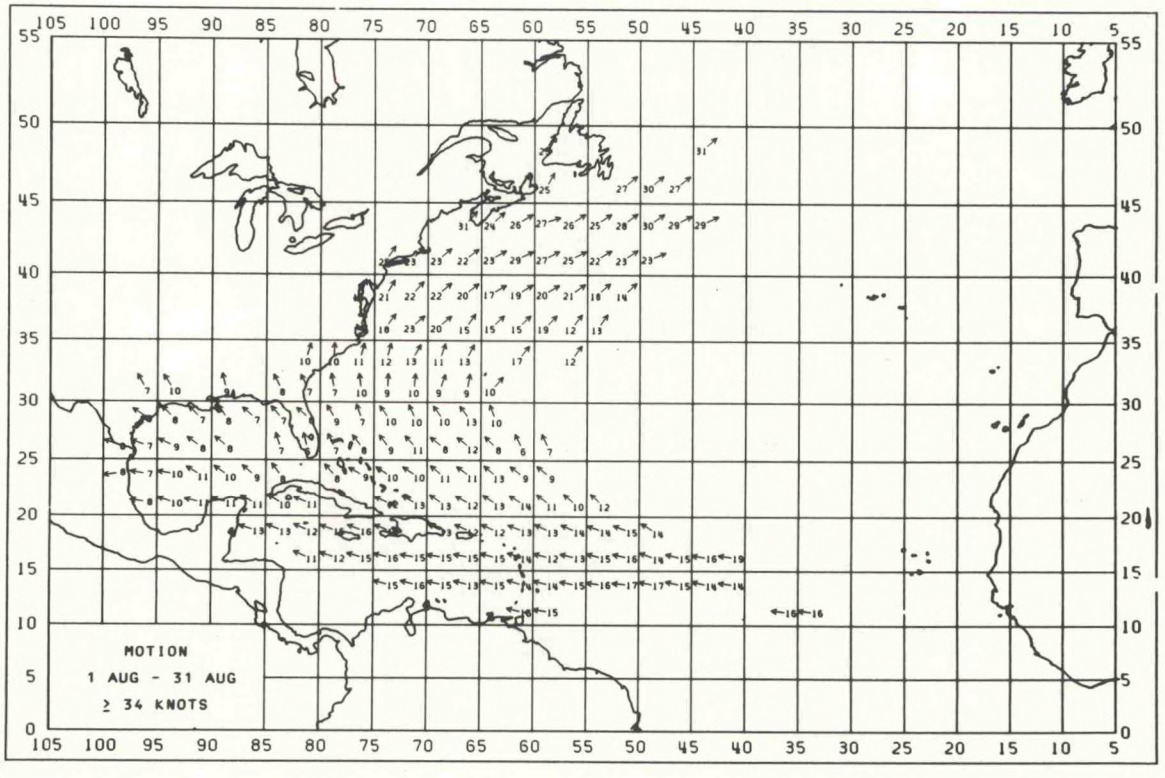
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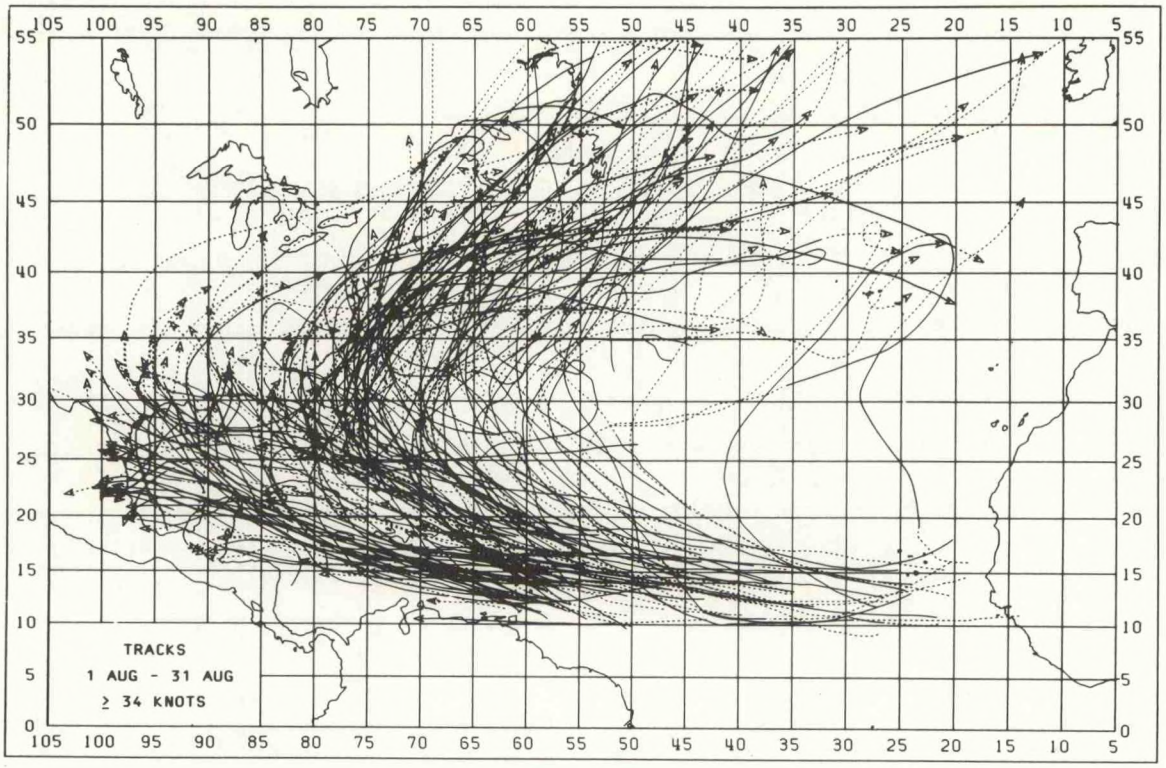


| A | B | C | D | E | F |
|---|---|---|---|---|---|
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| 91 | 8 | 278 | 15 | 16 | 4.59 |
| 100 | 5 | 277 | 16 | 16 | 3.23 |
| 101 | 5 | 276 | 16 | 16 | 2.87 |
| 121 | 6 | 284 | 15 | 15 | 5.26 |
| 122 | 7 | 285 | 16 | 16 | 6.06 |
| 123 | 10 | 282 | 15 | 15 | 5.66 |
| 124 | 17 | 284 | 13 | 13 | 5.69 |
| 125 | 17 | 283 | 15 | 15 | 4.26 |
| 126 | 16 | 287 | 14 | 14 | 4.14 |
| 127 | 17 | 284 | 14 | 14 | 5.56 |
| 128 | 12 | 280 | 15 | 15 | 4.68 |
| 129 | 12 | 277 | 16 | 16 | 4.42 |
| 130 | 13 | 275 | 17 | 17 | 3.97 |
| 131 | 12 | 280 | 17 | 17 | 3.10 |
| 132 | 12 | 282 | 15 | 16 | 3.16 |
| 133 | 8 | 283 | 14 | 14 | 2.17 |
| 134 | 6 | 277 | 14 | 14 | 2.96 |
| 154 | 7 | 293 | 11 | 12 | 4.74 |
| 155 | 13 | 288 | 12 | 13 | 5.30 |
| 156 | 15 | 286 | 15 | 15 | 5.12 |
| 157 | 17 | 283 | 16 | 16 | 5.07 |
| 158 | 19 | 280 | 15 | 15 | 5.48 |
| 159 | 20 | 280 | 15 | 15 | 5.45 |
| 160 | 20 | 281 | 15 | 15 | 4.87 |
| 161 | 20 | 284 | 15 | 15 | 4.14 |
| 162 | 19 | 287 | 14 | 14 | 4.69 |
| 163 | 20 | 284 | 12 | 12 | 4.44 |
| 164 | 19 | 282 | 13 | 13 | 5.16 |
| 165 | 14 | 284 | 15 | 15 | 5.27 |
| 166 | 11 | 283 | 16 | 17 | 4.62 |
| 167 | 11 | 289 | 14 | 15 | 4.31 |
| 168 | 9 | 283 | 15 | 15 | 4.62 |
| 169 | 8 | 278 | 16 | 16 | 5.21 |
| 170 | 5 | 278 | 19 | 19 | 9.74 |
| 188 | 7 | 288 | 13 | 14 | 2.14 |
| 189 | 13 | 292 | 13 | 13 | 4.09 |
| 190 | 18 | 294 | 12 | 13 | 3.95 |
| 191 | 11 | 290 | 15 | 15 | 4.59 |
| 192 | 9 | 291 | 16 | 16 | 3.91 |
| 193 | 6 | 291 | 15 | 15 | 2.84 |
| 195 | 8 | 297 | 13 | 14 | 3.06 |
| 196 | 15 | 294 | 12 | 13 | 2.85 |
| 197 | 19 | 294 | 12 | 13 | 3.80 |
| 198 | 16 | 292 | 13 | 14 | 3.58 |
| 199 | 15 | 295 | 13 | 13 | 4.07 |
| 200 | 11 | 293 | 14 | 15 | 3.01 |
| 201 | 11 | 289 | 14 | 14 | 4.10 |
| 202 | 7 | 291 | 15 | 16 | 5.24 |
| 203 | 7 | 302 | 14 | 15 | 5.84 |
| 220 | 11 | 279 | 8 | 10 | 3.67 |
| 221 | 12 | 289 | 10 | 10 | 3.87 |
| 222 | 11 | 283 | 11 | 12 | 2.99 |
| 223 | 14 | 288 | 11 | 12 | 3.10 |
| 224 | 17 | 301 | 11 | 12 | 3.80 |
| 225 | 13 | 303 | 10 | 11 | 3.36 |
| 226 | 5 | 293 | 11 | 12 | 4.26 |
| 229 | 5 | 294 | 12 | 12 | 4.05 |
| 230 | 9 | 301 | 13 | 13 | 4.46 |
| 231 | 18 | 307 | 13 | 13 | 3.86 |
| 232 | 15 | 300 | 12 | 12 | 5.35 |
| 233 | 14 | 305 | 13 | 13 | 5.92 |
| 234 | 12 | 303 | 14 | 14 | 5.05 |
| 235 | 7 | 309 | 11 | 12 | 5.76 |
| 236 | 7 | 312 | 10 | 11 | 3.59 |
| 237 | 6 | 313 | 12 | 12 | 4.97 |
| 255 | 6 | 261 | 8 | 9 | 3.96 |
| 256 | 15 | 280 | 7 | 9 | 2.39 |
| 257 | 10 | 280 | 10 | 10 | 5.65 |
| 258 | 11 | 303 | 11 | 12 | 4.34 |
| 259 | 12 | 307 | 10 | 11 | 3.77 |
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| 261 | 6 | 326 | 8 | 9 | 2.61 |
| 263 | 7 | 321 | 8 | 9 | 1.83 |
| 264 | 11 | 301 | 9 | 10 | 3.22 |
| 265 | 14 | 304 | 10 | 11 | 2.94 |
| 266 | 15 | 304 | 10 | 11 | 4.70 |
| 267 | 13 | 311 | 11 | 12 | 5.49 |
| 268 | 12 | 306 | 11 | 11 | 6.17 |
| 269 | 8 | 311 | 13 | 13 | 4.21 |
| 270 | 7 | 308 | 9 | 10 | 4.45 |
| 271 | 6 | 310 | 9 | 9 | 4.80 |
| 291 | 7 | 292 | 8 | 9 | 3.29 |
| 292 | 9 | 291 | 7 | 9 | 4.65 |
| 293 | 9 | 296 | 9 | 11 | 5.22 |
| 294 | 13 | 308 | 8 | 9 | 4.16 |
| 295 | 12 | 311 | 8 | 9 | 3.24 |
| 297 | 6 | 343 | 7 | 10 | 4.00 |
| 298 | 9 | 347 | 6 | 11 | 4.15 |
| 299 | 13 | 336 | 7 | 9 | 4.20 |
| 300 | 11 | 324 | 8 | 9 | 3.10 |
| 301 | 14 | 324 | 9 | 10 | 4.47 |
| 302 | 17 | 318 | 11 | 12 | 6.76 |
| 303 | 10 | 310 | 8 | 9 | 3.97 |
| 304 | 6 | 309 | 12 | 13 | 4.88 |
| 305 | 8 | 315 | 8 | 11 | 4.53 |
| 306 | 8 | 335 | 6 | 10 | 3.42 |
| 307 | 5 | 336 | 7 | 13 | 1.80 |
| 328 | 9 | 304 | 8 | 9 | 4.00 |
| 329 | 15 | 319 | 8 | 9 | 4.01 |
| 330 | 10 | 317 | 7 | 8 | 4.42 |
| 331 | 9 | 327 | 8 | 10 | 3.75 |
| 332 | 7 | 313 | 7 | 9 | 3.28 |
| 333 | 10 | 321 | 7 | 9 | 1.82 |
| 334 | 13 | 312 | 8 | 10 | 3.39 |
| 335 | 11 | 331 | 9 | 10 | 3.77 |
| 336 | 19 | 342 | 7 | 9 | 4.23 |
| 337 | 13 | 325 | 10 | 11 | 4.35 |
| 338 | 10 | 338 | 10 | 12 | 4.34 |
| 339 | 10 | 326 | 10 | 12 | 3.85 |
| 340 | 6 | 325 | 13 | 15 | 3.50 |
| 341 | 8 | 341 | 10 | 12 | 4.97 |
| 364 | 8 | 332 | 7 | 7 | 2.25 |
| 365 | 9 | 326 | 10 | 11 | 4.07 |
| 367 | 5 | 347 | 9 | 10 | 4.48 |
| 369 | 8 | 334 | 8 | 9 | 3.76 |
| 370 | 7 | 334 | 7 | 8 | 2.94 |
| 371 | 13 | 350 | 7 | 9 | 4.06 |
| 372 | 17 | 354 | 10 | 11 | 3.95 |
| 373 | 13 | 003 | 9 | 11 | 3.90 |
| 374 | 10 | 005 | 10 | 12 | 7.59 |
| 375 | 8 | 019 | 9 | 11 | 5.63 |
| 376 | 7 | 009 | 9 | 13 | 4.99 |
| 377 | 6 | 041 | 10 | 13 | 5.38 |
| 406 | 6 | 016 | 10 | 11 | 5.09 |
| 407 | 6 | 003 | 10 | 11 | 4.99 |
| 408 | 19 | 015 | 11 | 12 | 5.07 |
| 409 | 14 | 014 | 12 | 14 | 6.33 |
| 410 | 8 | 029 | 13 | 16 | 8.21 |
| 411 | 8 | 019 | 11 | 13 | 6.26 |
| 412 | 10 | 028 | 13 | 14 | 4.19 |
| 414 | 6 | 039 | 17 | 18 | 6.35 |
| 416 | 6 | 036 | 12 | 15 | 6.02 |
| 444 | 11 | 021 | 13 | 14 | 8.52 |
| 445 | 20 | 036 | 18 | 19 | 6.95 |
| 446 | 13 | 049 | 23 | 24 | 8.19 |
| 447 | 12 | 049 | 20 | 22 | 8.23 |
| 448 | 10 | 035 | 15 | 16 | 5.38 |
| 449 | 7 | 046 | 15 | 16 | 6.64 |
| 450 | 5 | 046 | 15 | 15 | 8.24 |
| 451 | 5 | 044 | 19 | 19 | 8.45 |
| 452 | 8 | 036 | 12 | 13 | 6.61 |
| 453 | 6 | 035 | 13 | 14 | 9.16 |
| 480 | 6 | 024 | 15 | 17 | 6.48 |
| 481 | 11 | 032 | 21 | 22 | 8.28 |
| 482 | 18 | 042 | 22 | 23 | 8.73 |
| 483 | 14 | 050 | 22 | 24 | 9.83 |
| 484 | 12 | 053 | 20 | 22 | 9.18 |
| 485 | 11 | 061 | 17 | 19 | 11.30 |
| 486 | 11 | 059 | 19 | 21 | 9.49 |
| 487 | 7 | 060 | 20 | 22 | 10.79 |
| 488 | 9 | 055 | 21 | 23 | 10.12 |
| 489 | 10 | 050 | 18 | 20 | 7.92 |
| 490 | 8 | 047 | 14 | 16 | 10.33 |
| 517 | 6 | 034 | 25 | 26 | 11.83 |
| 518 | 8 | 040 | 23 | 24 | 10.22 |
| 519 | 14 | 049 | 23 | 24 | 11.63 |
| 520 | 17 | 053 | 22 | 23 | 9.37 |
| 521 | 13 | 060 | 23 | 25 | 15.37 |
| 522 | 9 | 064 | 29 | 30 | 15.84 |
| 523 | 13 | 062 | 27 | 28 | 13.07 |
| 524 | 12 | 063 | 25 | 28 | 10.46 |
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| 527 | 6 | 069 | 23 | 25 | 7.97 |
| 556 | 6 | 042 | 31 | 31 | 14.32 |
| 557 | 13 | 048 | 24 | 25 | 12.74 |
| 558 | 9 | 059 | 26 | 27 | 9.94 |
| 559 | 6 | 073 | 27 | 29 | 8.15 |
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| 561 | 9 | 056 | 25 | 26 | 7.53 |
| 562 | 12 | 054 | 28 | 30 | 8.67 |
| 563 | 8 | 056 | 30 | 33 | 9.26 |
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| 598 | 6 | 050 | 27 | 29 | 8.70 |
| 599 | 9 | 050 | 30 | 32 | 9.90 |
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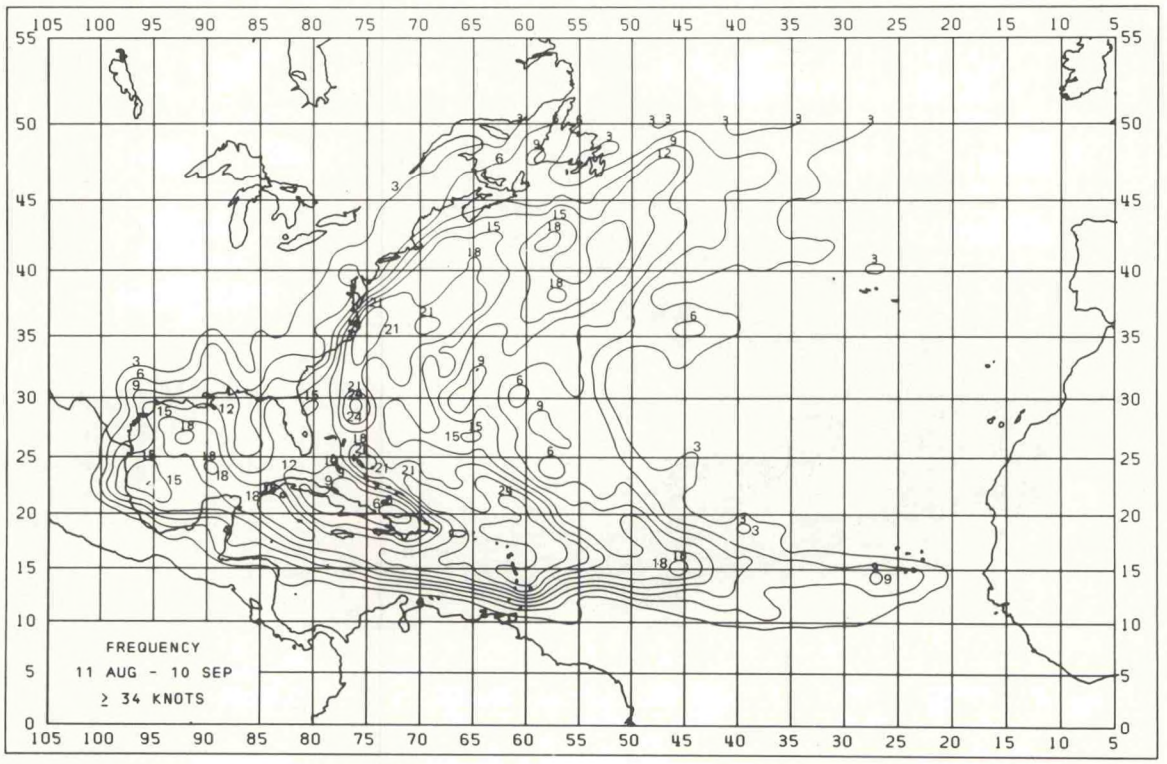
FREQUENCY
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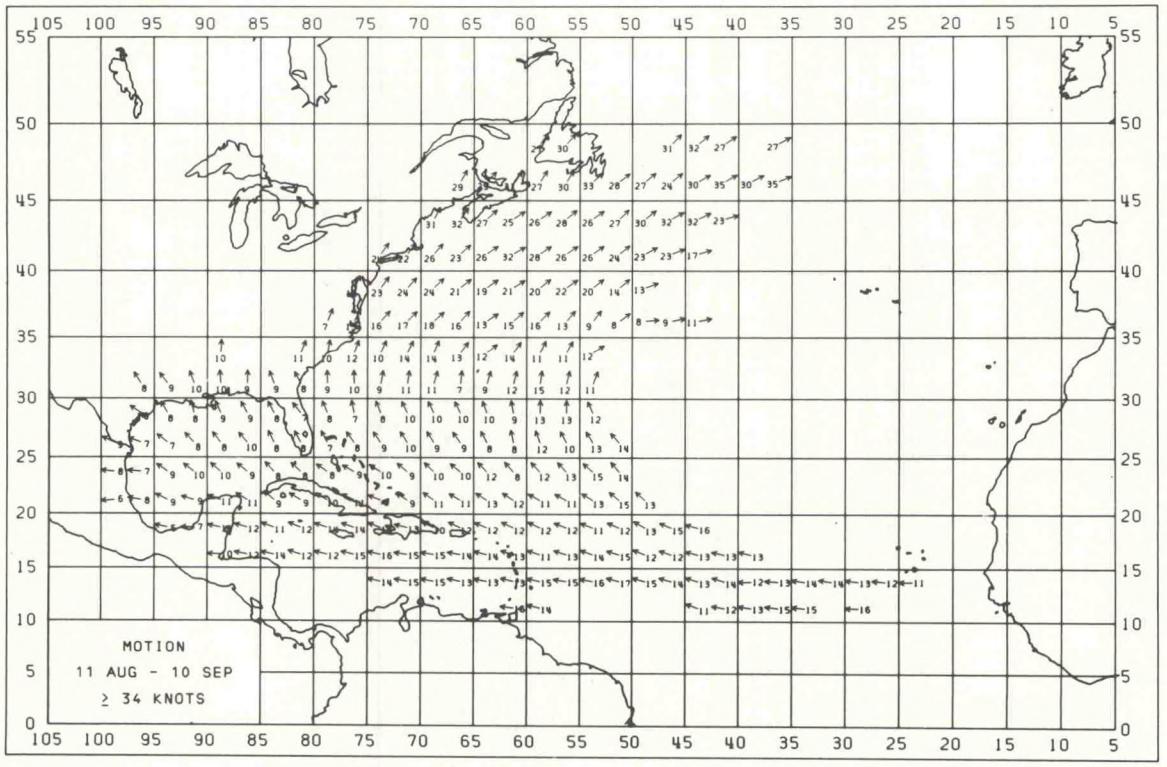
≥ 34 KNOTS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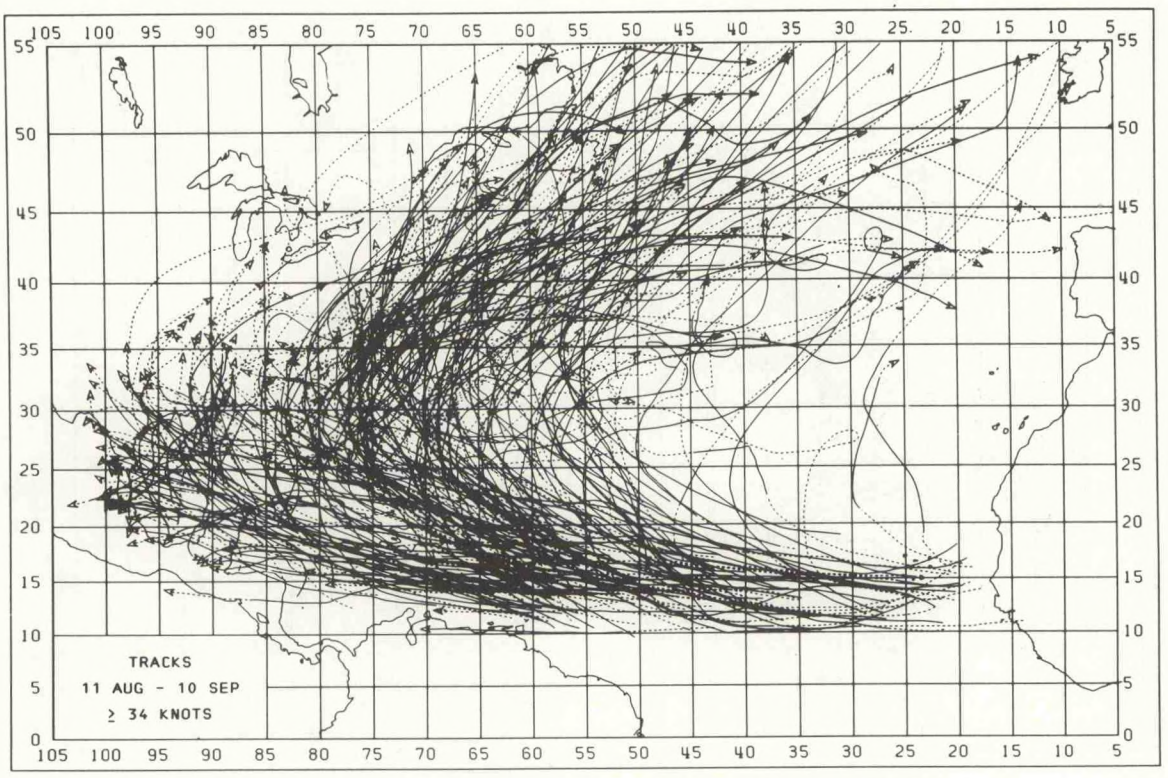
≥ 34 KNOTS

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| 98 | 6 | 279 | 12 | 12 | 3.57 |
| 99 | 7 | 278 | 13 | 14 | 3.27 |
| 100 | 7 | 278 | 15 | 15 | 3.77 |
| 101 | 5 | 276 | 15 | 15 | 5.27 |
| 103 | 6 | 273 | 16 | 17 | 2.51 |
| 121 | 8 | 282 | 14 | 15 | 4.36 |
| 122 | 10 | 281 | 15 | 15 | 5.65 |
| 123 | 12 | 281 | 15 | 15 | 5.55 |
| 124 | 15 | 282 | 13 | 13 | 5.57 |
| 125 | 20 | 281 | 13 | 13 | 4.05 |
| 126 | 23 | 284 | 13 | 13 | 4.45 |
| 127 | 19 | 282 | 15 | 15 | 4.97 |
| 128 | 13 | 279 | 15 | 15 | 4.53 |
| 129 | 12 | 281 | 16 | 16 | 4.99 |
| 130 | 14 | 285 | 17 | 17 | 4.56 |
| 131 | 13 | 286 | 15 | 15 | 4.95 |
| 132 | 14 | 286 | 14 | 14 | 4.57 |
| 133 | 13 | 287 | 13 | 13 | 3.70 |
| 134 | 11 | 288 | 14 | 14 | 3.26 |
| 135 | 6 | 268 | 12 | 12 | 4.23 |
| 136 | 6 | 274 | 13 | 13 | 2.73 |
| 137 | 7 | 278 | 14 | 14 | 3.85 |
| 138 | 8 | 279 | 14 | 14 | 4.69 |
| 139 | 7 | 278 | 13 | 13 | 4.49 |
| 140 | 8 | 276 | 12 | 12 | 3.86 |
| 141 | 8 | 270 | 11 | 12 | 4.67 |
| 151 | 6 | 273 | 10 | 11 | 6.63 |
| 152 | 7 | 281 | 12 | 12 | 6.37 |
| 153 | 7 | 282 | 14 | 14 | 4.90 |
| 154 | 10 | 288 | 12 | 13 | 4.46 |
| 155 | 13 | 284 | 12 | 13 | 4.82 |
| 156 | 15 | 284 | 15 | 15 | 4.55 |
| 157 | 18 | 282 | 16 | 16 | 4.46 |
| 158 | 19 | 279 | 15 | 15 | 4.79 |
| 159 | 20 | 279 | 15 | 15 | 5.35 |
| 160 | 21 | 280 | 14 | 14 | 5.45 |
| 161 | 22 | 285 | 14 | 14 | 4.54 |
| 162 | 21 | 288 | 13 | 13 | 4.64 |
| 163 | 24 | 289 | 11 | 12 | 4.04 |
| 164 | 24 | 289 | 13 | 13 | 5.27 |
| 165 | 20 | 291 | 14 | 14 | 6.31 |
| 166 | 14 | 288 | 15 | 15 | 6.07 |
| 167 | 15 | 294 | 12 | 13 | 4.85 |
| 168 | 16 | 289 | 12 | 13 | 4.66 |
| 169 | 14 | 285 | 13 | 14 | 3.64 |
| 170 | 10 | 283 | 13 | 13 | 3.12 |
| 171 | 8 | 284 | 13 | 13 | 3.62 |
| 185 | 6 | 282 | 5 | 7 | 3.37 |
| 186 | 5 | 270 | 7 | 9 | 3.77 |
| 187 | 8 | 282 | 11 | 11 | 3.96 |

| A | B | C | D | E | F |
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| 188 | 11 | 286 | 12 | 12 | 3.29 |
| 189 | 15 | 290 | 11 | 12 | 4.03 |
| 190 | 21 | 293 | 12 | 12 | 3.65 |
| 191 | 14 | 289 | 14 | 14 | 4.26 |
| 192 | 13 | 290 | 14 | 14 | 4.01 |
| 193 | 11 | 291 | 14 | 14 | 3.10 |
| 194 | 6 | 285 | 13 | 13 | 2.55 |
| 195 | 13 | 296 | 10 | 11 | 3.46 |
| 196 | 19 | 295 | 12 | 12 | 3.33 |
| 197 | 26 | 294 | 12 | 13 | 3.73 |
| 198 | 25 | 296 | 12 | 13 | 4.12 |
| 199 | 25 | 296 | 12 | 13 | 3.76 |
| 200 | 18 | 292 | 12 | 13 | 3.34 |
| 201 | 14 | 292 | 11 | 12 | 4.39 |
| 202 | 14 | 294 | 12 | 13 | 5.00 |
| 203 | 17 | 301 | 13 | 14 | 5.03 |
| 204 | 10 | 293 | 15 | 15 | 7.46 |
| 205 | 6 | 286 | 16 | 16 | 5.20 |
| 219 | 7 | 264 | 6 | 8 | 5.15 |
| 220 | 11 | 280 | 8 | 9 | 3.41 |
| 221 | 17 | 297 | 9 | 10 | 3.61 |
| 222 | 14 | 286 | 9 | 10 | 3.75 |
| 223 | 14 | 291 | 11 | 12 | 3.48 |
| 224 | 17 | 302 | 11 | 11 | 3.42 |
| 225 | 20 | 313 | 9 | 11 | 3.70 |
| 226 | 10 | 302 | 9 | 11 | 3.77 |
| 227 | 9 | 301 | 10 | 10 | 2.17 |
| 228 | 8 | 296 | 11 | 11 | 4.01 |
| 229 | 7 | 291 | 9 | 9 | 4.15 |
| 230 | 13 | 303 | 9 | 10 | 4.67 |
| 231 | 24 | 306 | 11 | 11 | 4.27 |
| 232 | 22 | 301 | 11 | 11 | 5.35 |
| 233 | 20 | 304 | 13 | 13 | 5.72 |
| 234 | 26 | 304 | 12 | 13 | 4.67 |
| 235 | 18 | 299 | 11 | 12 | 4.29 |
| 236 | 12 | 299 | 11 | 12 | 3.80 |
| 237 | 11 | 302 | 13 | 13 | 5.14 |
| 238 | 11 | 310 | 15 | 16 | 4.99 |
| 239 | 9 | 312 | 13 | 13 | 3.73 |
| 255 | 9 | 275 | 8 | 10 | 3.52 |
| 256 | 16 | 275 | 7 | 8 | 2.02 |
| 257 | 13 | 305 | 9 | 10 | 5.70 |
| 258 | 14 | 307 | 10 | 11 | 4.36 |
| 259 | 18 | 312 | 10 | 10 | 3.84 |
| 260 | 11 | 308 | 9 | 10 | 2.80 |
| 261 | 13 | 318 | 8 | 10 | 3.08 |
| 262 | 12 | 313 | 8 | 10 | 2.91 |
| 263 | 11 | 305 | 8 | 9 | 2.91 |
| 264 | 14 | 300 | 9 | 10 | 3.82 |
| 265 | 19 | 302 | 10 | 11 | 3.40 |
| 266 | 20 | 310 | 9 | 10 | 4.26 |
| 267 | 15 | 314 | 10 | 11 | 5.31 |
| 268 | 19 | 309 | 10 | 10 | 5.41 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 269 | 19 | 316 | 12 | 13 | 4.17 |
| 270 | 14 | 318 | 8 | 10 | 3.58 |
| 271 | 6 | 317 | 12 | 12 | 5.50 |
| 272 | 6 | 318 | 13 | 14 | 2.43 |
| 273 | 8 | 312 | 15 | 16 | 5.49 |
| 274 | 7 | 319 | 14 | 14 | 4.73 |
| 291 | 8 | 294 | 9 | 9 | 3.57 |
| 292 | 9 | 289 | 7 | 9 | 4.73 |
| 293 | 15 | 308 | 7 | 10 | 4.75 |
| 294 | 18 | 317 | 8 | 10 | 3.78 |
| 295 | 15 | 323 | 8 | 10 | 3.29 |
| 296 | 7 | 320 | 10 | 11 | 3.40 |
| 297 | 12 | 335 | 8 | 10 | 3.82 |
| 298 | 14 | 333 | 8 | 11 | 3.38 |
| 299 | 14 | 333 | 7 | 10 | 4.01 |
| 300 | 17 | 326 | 8 | 10 | 4.09 |
| 301 | 16 | 326 | 9 | 10 | 3.97 |
| 302 | 16 | 328 | 10 | 12 | 5.89 |
| 303 | 14 | 329 | 9 | 10 | 4.76 |
| 304 | 15 | 325 | 9 | 10 | 4.98 |
| 305 | 15 | 333 | 8 | 10 | 4.36 |
| 306 | 8 | 349 | 8 | 11 | 3.57 |
| 307 | 9 | 341 | 12 | 15 | 6.16 |
| 308 | 9 | 333 | 10 | 14 | 4.33 |
| 309 | 8 | 330 | 13 | 14 | 7.80 |
| 310 | 5 | 318 | 14 | 14 | 5.26 |
| 328 | 11 | 303 | 8 | 9 | 4.67 |
| 329 | 13 | 330 | 8 | 10 | 3.35 |
| 330 | 12 | 346 | 8 | 10 | 4.38 |
| 331 | 12 | 337 | 9 | 12 | 3.52 |
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| 333 | 14 | 333 | 8 | 9 | 3.41 |
| 334 | 14 | 322 | 7 | 9 | 3.48 |
| 335 | 13 | 337 | 8 | 10 | 3.50 |
| 336 | 24 | 349 | 7 | 10 | 4.70 |
| 337 | 16 | 338 | 8 | 11 | 4.42 |
| 338 | 15 | 335 | 10 | 13 | 4.42 |
| 339 | 16 | 335 | 10 | 12 | 4.32 |
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| 343 | 9 | 001 | 13 | 16 | 9.02 |
| 344 | 7 | 000 | 13 | 17 | 9.03 |
| 345 | 7 | 337 | 12 | 14 | 2.84 |
| 364 | 8 | 328 | 8 | 8 | 3.32 |
| 365 | 7 | 323 | 9 | 11 | 3.14 |
| 366 | 7 | 341 | 10 | 11 | 3.22 |
| 367 | 9 | 356 | 10 | 11 | 4.41 |
| 368 | 5 | 001 | 9 | 10 | 4.56 |
| 369 | 10 | 340 | 9 | 11 | 4.37 |
| 370 | 8 | 332 | 8 | 9 | 3.66 |
| 371 | 14 | 359 | 9 | 10 | 4.28 |
| 372 | 19 | 359 | 10 | 11 | 4.18 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 373 | 16 | 010 | 9 | 11 | 4.37 |
| 374 | 19 | 009 | 11 | 13 | 6.75 |
| 375 | 14 | 015 | 11 | 13 | 6.72 |
| 376 | 11 | 006 | 7 | 10 | 4.70 |
| 377 | 10 | 016 | 9 | 11 | 4.21 |
| 378 | 6 | 014 | 12 | 13 | 10.62 |
| 379 | 5 | 008 | 15 | 17 | 9.86 |
| 380 | 9 | 014 | 12 | 16 | 6.78 |
| 381 | 7 | 021 | 11 | 15 | 4.96 |
| 403 | 8 | 003 | 10 | 11 | 3.53 |
| 406 | 6 | 020 | 11 | 12 | 5.32 |
| 407 | 7 | 010 | 10 | 11 | 4.64 |
| 408 | 22 | 019 | 12 | 13 | 6.19 |
| 409 | 18 | 022 | 10 | 13 | 5.67 |
| 410 | 19 | 025 | 14 | 16 | 7.54 |
| 411 | 16 | 021 | 14 | 16 | 7.74 |
| 412 | 14 | 035 | 13 | 14 | 5.74 |
| 413 | 10 | 050 | 12 | 14 | 6.89 |
| 414 | 11 | 034 | 14 | 16 | 7.81 |
| 415 | 10 | 025 | 11 | 13 | 8.64 |
| 416 | 11 | 028 | 11 | 13 | 5.44 |
| 417 | 6 | 056 | 12 | 15 | 6.73 |
| 443 | 6 | 021 | 7 | 13 | 4.08 |
| 444 | 13 | 028 | 13 | 15 | 8.62 |
| 445 | 22 | 042 | 16 | 19 | 8.34 |
| 446 | 20 | 045 | 17 | 20 | 8.62 |
| 447 | 22 | 049 | 18 | 20 | 8.16 |
| 448 | 20 | 043 | 16 | 17 | 6.60 |
| 449 | 13 | 057 | 13 | 15 | 6.60 |
| 450 | 14 | 048 | 15 | 17 | 9.30 |
| 451 | 15 | 046 | 16 | 17 | 9.35 |
| 452 | 12 | 041 | 13 | 15 | 7.48 |
| 453 | 9 | 038 | 9 | 13 | 7.83 |
| 454 | 10 | 054 | 8 | 14 | 8.37 |
| 455 | 5 | 085 | 8 | 11 | 7.22 |
| 456 | 5 | 078 | 9 | 12 | 8.18 |
| 457 | 6 | 079 | 11 | 13 | 8.20 |
| 480 | 6 | 024 | 16 | 18 | 6.11 |
| 481 | 11 | 036 | 23 | 24 | 8.97 |
| 482 | 17 | 042 | 24 | 24 | 9.91 |
| 483 | 16 | 046 | 24 | 26 | 10.99 |
| 484 | 20 | 051 | 21 | 23 | 11.16 |
| 485 | 17 | 055 | 19 | 21 | 11.31 |
| 486 | 14 | 057 | 21 | 23 | 8.77 |
| 487 | 16 | 052 | 20 | 22 | 10.35 |
| 488 | 16 | 055 | 22 | 24 | 9.78 |
| 489 | 15 | 052 | 20 | 21 | 9.34 |
| 490 | 13 | 051 | 14 | 17 | 8.89 |
| 491 | 5 | 071 | 13 | 18 | 6.96 |
| 517 | 6 | 035 | 24 | 25 | 12.83 |
| 518 | 10 | 036 | 22 | 23 | 11.08 |
| 519 | 15 | 040 | 26 | 27 | 12.45 |
| 520 | 16 | 047 | 23 | 25 | 9.49 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 521 | 17 | 055 | 26 | 27 | 13.67 |
| 522 | 14 | 060 | 32 | 32 | 13.28 |
| 523 | 18 | 055 | 28 | 30 | 12.18 |
| 524 | 14 | 056 | 26 | 28 | 10.37 |
| 525 | 16 | 054 | 26 | 28 | 9.58 |
| 526 | 17 | 051 | 24 | 27 | 9.46 |
| 527 | 10 | 061 | 23 | 25 | 10.12 |
| 528 | 7 | 069 | 23 | 25 | 6.99 |
| 529 | 6 | 074 | 17 | 19 | 6.95 |
| 555 | 5 | 027 | 31 | 31 | 14.17 |
| 556 | 9 | 035 | 32 | 33 | 12.10 |
| 557 | 13 | 048 | 27 | 27 | 11.02 |
| 558 | 13 | 057 | 25 | 26 | 9.12 |
| 559 | 13 | 057 | 26 | 29 | 9.55 |
| 560 | 15 | 049 | 28 | 31 | 8.40 |
| 561 | 12 | 054 | 26 | 28 | 8.69 |
| 562 | 15 | 047 | 27 | 29 | 8.59 |
| 563 | 12 | 051 | 30 | 32 | 12.13 |
| 564 | 10 | 060 | 32 | 34 | 9.92 |
| 565 | 8 | 064 | 32 | 33 | 11.03 |
| 566 | 6 | 075 | 23 | 24 | 12.21 |
| 592 | 6 | 028 | 29 | 30 | 14.82 |
| 593 | 7 | 042 | 29 | 29 | 17.09 |
| 594 | 8 | 040 | 31 | 31 | 13.35 |
| 595 | 7 | 031 | 27 | 30 | 9.43 |
| 596 | 6 | 031 | 30 | 34 | 8.92 |
| 597 | 7 | 049 | 33 | 36 | 6.58 |
| 598 | 11 | 052 | 28 | 30 | 8.01 |
| 599 | 15 | 050 | 27 | 29 | 9.51 |
| 600 | 12 | 050 | 24 | 26 | 10.14 |
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| 604 | 5 | 067 | 35 | 38 | 12.69 |
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| 632 | 6 | 041 | 30 | 31 | 9.40 |
| 636 | 8 | 043 | 31 | 33 | 10.67 |
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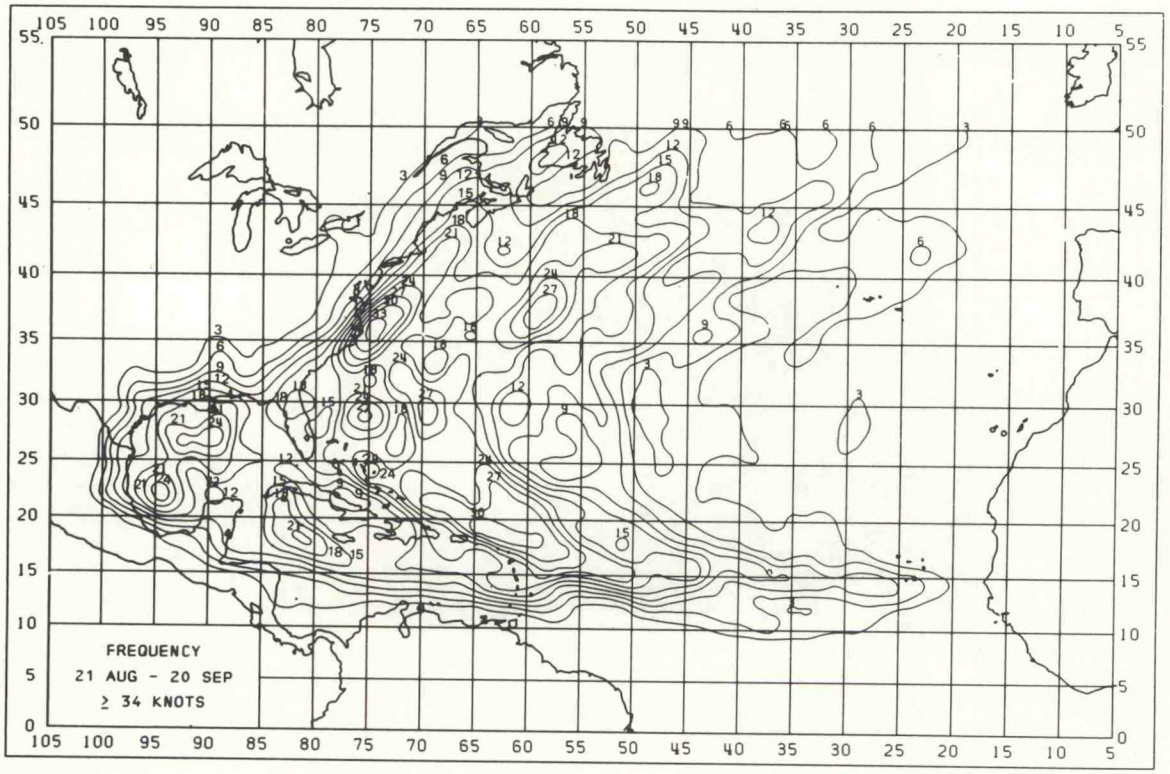
FREQUENCY
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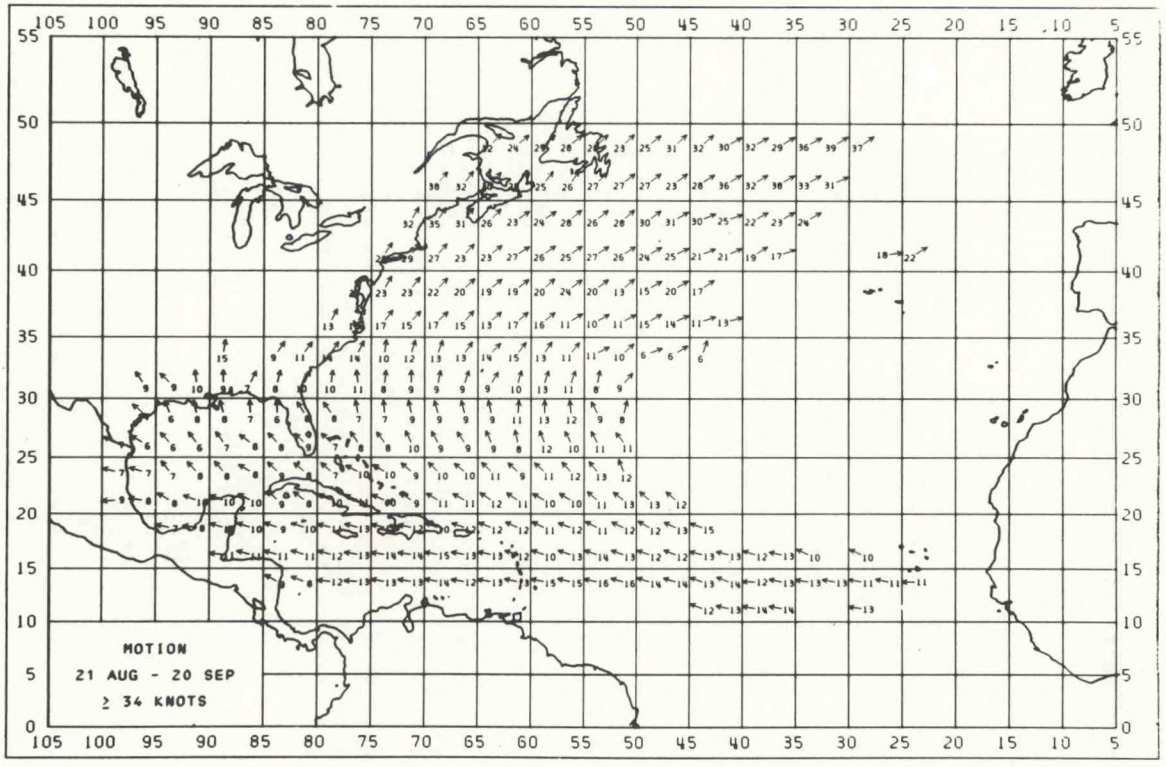
MOTION
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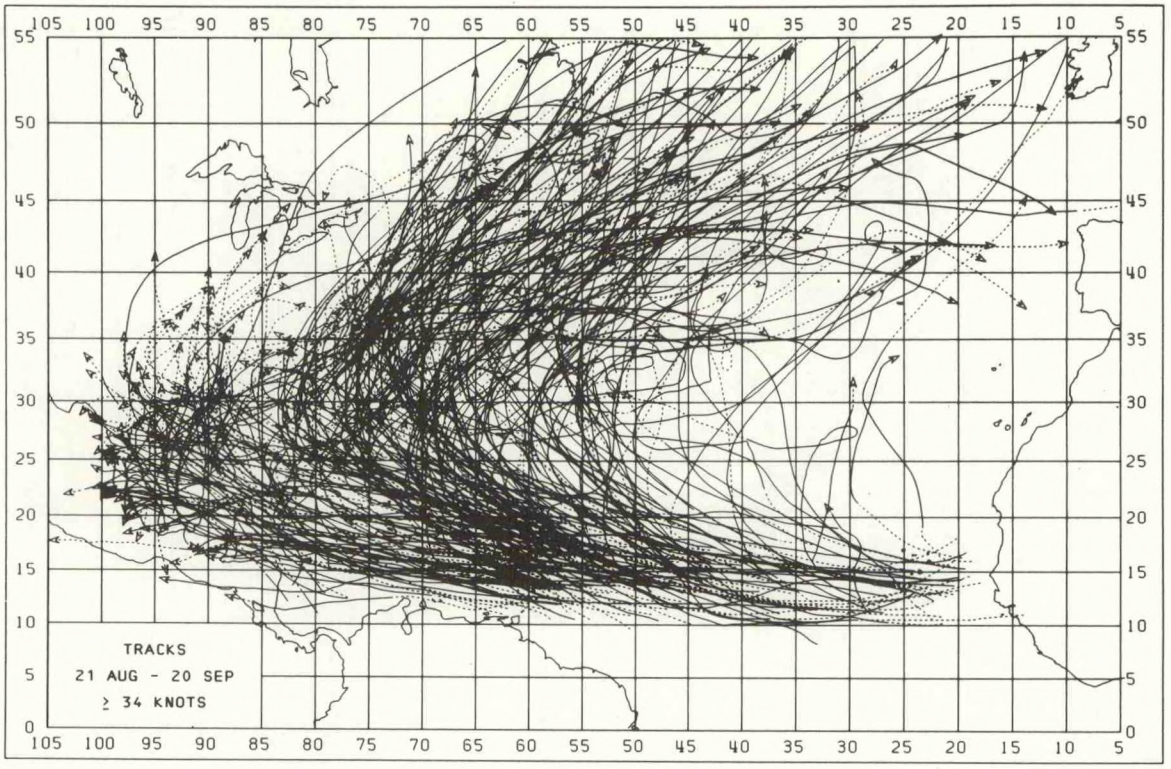


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| 103 | 6 | 277 | 13 | 14 | 4.93 |
| 117 | 5 | 302 | 9 | 10 | 1.52 |
| 118 | 6 | 292 | 8 | 10 | 2.83 |
| 119 | 5 | 277 | 12 | 12 | 4.94 |
| 120 | 7 | 274 | 13 | 13 | 5.09 |
| 121 | 10 | 281 | 13 | 13 | 5.16 |
| 122 | 10 | 280 | 13 | 13 | 4.68 |
| 123 | 11 | 281 | 14 | 14 | 4.38 |
| 124 | 10 | 279 | 12 | 12 | 5.47 |
| 125 | 17 | 279 | 13 | 13 | 4.19 |
| 126 | 19 | 282 | 13 | 13 | 4.96 |
| 127 | 14 | 283 | 15 | 15 | 5.90 |
| 128 | 10 | 284 | 15 | 15 | 4.47 |
| 129 | 12 | 283 | 16 | 16 | 4.84 |
| 130 | 15 | 286 | 16 | 17 | 4.75 |
| 131 | 16 | 288 | 14 | 14 | 5.11 |
| 132 | 14 | 287 | 14 | 14 | 4.61 |
| 133 | 12 | 289 | 13 | 13 | 4.23 |
| 134 | 8 | 290 | 14 | 14 | 3.81 |
| 135 | 7 | 272 | 12 | 12 | 4.06 |
| 136 | 8 | 281 | 13 | 13 | 2.30 |
| 137 | 9 | 279 | 13 | 13 | 3.51 |
| 138 | 9 | 280 | 13 | 13 | 4.45 |
| 139 | 10 | 281 | 11 | 12 | 4.54 |
| 140 | 9 | 282 | 11 | 12 | 3.62 |
| 141 | 8 | 270 | 11 | 12 | 4.67 |
| 151 | 8 | 276 | 11 | 11 | 5.23 |
| 152 | 10 | 287 | 11 | 12 | 5.21 |
| 153 | 11 | 286 | 11 | 12 | 4.48 |
| 154 | 13 | 287 | 11 | 12 | 4.63 |
| 155 | 16 | 286 | 12 | 12 | 4.98 |
| 156 | 14 | 280 | 13 | 13 | 4.35 |
| 157 | 14 | 278 | 14 | 15 | 4.55 |
| 158 | 15 | 278 | 14 | 14 | 4.73 |
| 159 | 17 | 280 | 15 | 15 | 4.76 |
| 160 | 17 | 281 | 13 | 13 | 5.15 |
| 161 | 17 | 282 | 13 | 13 | 4.21 |
| 162 | 20 | 288 | 12 | 12 | 4.82 |
| 163 | 27 | 290 | 10 | 11 | 3.69 |
| 164 | 27 | 289 | 13 | 13 | 5.79 |
| 165 | 24 | 290 | 14 | 14 | 6.11 |
| 166 | 19 | 290 | 13 | 14 | 5.53 |
| 167 | 17 | 290 | 12 | 13 | 4.04 |
| 168 | 19 | 290 | 12 | 12 | 3.52 |
| 169 | 17 | 285 | 13 | 13 | 3.41 |
| 170 | 13 | 284 | 13 | 13 | 2.77 |
| 171 | 13 | 287 | 12 | 12 | 3.30 |
| 172 | 7 | 281 | 13 | 13 | 3.49 |
| 173 | 9 | 294 | 10 | 13 | 3.33 |
| 175 | 6 | 294 | 10 | 11 | 4.33 |
| 185 | 7 | 283 | 7 | 8 | 4.20 |
| 186 | 7 | 280 | 8 | 9 | 3.83 |
| 187 | 11 | 288 | 10 | 11 | 3.63 |
| 188 | 14 | 289 | 10 | 11 | 3.36 |
| 189 | 19 | 291 | 9 | 10 | 3.15 |
| 190 | 22 | 288 | 10 | 11 | 3.33 |
| 191 | 13 | 284 | 11 | 11 | 4.55 |
| 192 | 12 | 285 | 13 | 13 | 4.07 |
| 193 | 14 | 283 | 13 | 13 | 3.22 |
| 194 | 13 | 282 | 12 | 12 | 2.80 |
| 195 | 19 | 289 | 10 | 11 | 3.18 |
| 196 | 23 | 289 | 12 | 12 | 3.19 |
| 197 | 33 | 293 | 12 | 13 | 3.47 |
| 198 | 31 | 295 | 12 | 13 | 3.76 |
| 199 | 31 | 296 | 11 | 12 | 3.80 |
| 200 | 22 | 291 | 12 | 13 | 3.25 |
| 201 | 16 | 298 | 11 | 12 | 3.28 |
| 202 | 14 | 295 | 12 | 12 | 3.80 |
| 203 | 16 | 300 | 12 | 13 | 4.18 |
| 204 | 10 | 294 | 13 | 13 | 6.78 |
| 205 | 6 | 290 | 15 | 15 | 5.39 |
| 219 | 9 | 267 | 9 | 10 | 5.52 |
| 220 | 17 | 279 | 8 | 9 | 4.45 |
| 221 | 23 | 302 | 8 | 9 | 3.90 |
| 222 | 15 | 291 | 10 | 10 | 3.45 |
| 223 | 12 | 290 | 10 | 12 | 2.68 |
| 224 | 13 | 298 | 10 | 10 | 2.91 |
| 225 | 19 | 314 | 9 | 10 | 3.78 |
| 226 | 13 | 308 | 8 | 10 | 3.65 |
| 227 | 9 | 295 | 10 | 11 | 2.35 |
| 228 | 8 | 289 | 11 | 12 | 3.96 |
| 229 | 12 | 293 | 10 | 11 | 3.51 |
| 230 | 22 | 302 | 9 | 10 | 3.86 |
| 231 | 28 | 301 | 11 | 12 | 4.50 |
| 232 | 29 | 299 | 11 | 11 | 4.53 |
| 233 | 26 | 304 | 12 | 13 | 4.27 |
| 234 | 28 | 303 | 11 | 12 | 4.13 |
| 235 | 26 | 300 | 10 | 11 | 4.62 |
| 236 | 19 | 301 | 10 | 12 | 3.79 |
| 237 | 16 | 311 | 11 | 13 | 5.39 |
| 238 | 12 | 307 | 13 | 14 | 5.66 |
| 239 | 9 | 311 | 13 | 13 | 3.78 |
| 240 | 6 | 309 | 12 | 14 | 5.01 |
| 255 | 11 | 285 | 7 | 9 | 4.00 |
| 256 | 18 | 288 | 7 | 9 | 2.38 |
| 257 | 19 | 324 | 7 | 9 | 3.47 |
| 258 | 14 | 319 | 8 | 11 | 4.18 |
| 259 | 19 | 321 | 8 | 10 | 3.67 |
| 260 | 13 | 302 | 8 | 9 | 2.74 |
| 261 | 13 | 315 | 9 | 10 | 3.16 |
| 262 | 12 | 311 | 8 | 9 | 2.75 |
| 263 | 15 | 312 | 7 | 9 | 3.03 |
| 264 | 18 | 298 | 10 | 10 | 3.82 |
| 265 | 23 | 302 | 10 | 11 | 3.82 |
| 266 | 25 | 311 | 9 | 10 | 3.84 |
| 267 | 23 | 314 | 10 | 11 | 4.46 |
| 268 | 22 | 309 | 10 | 11 | 4.55 |
| 269 | 26 | 315 | 11 | 12 | 4.25 |
| 270 | 19 | 312 | 9 | 10 | 3.33 |
| 271 | 12 | 313 | 11 | 11 | 5.21 |
| 272 | 8 | 318 | 12 | 12 | 3.48 |
| 273 | 10 | 322 | 13 | 15 | 5.90 |
| 274 | 9 | 337 | 12 | 15 | 5.86 |
| 291 | 11 | 295 | 7 | 8 | 2.81 |
| 292 | 15 | 303 | 6 | 9 | 3.10 |
| 293 | 20 | 320 | 6 | 9 | 3.34 |
| 294 | 24 | 325 | 6 | 9 | 3.46 |
| 295 | 22 | 327 | 7 | 10 | 3.55 |
| 296 | 14 | 308 | 8 | 10 | 3.78 |
| 297 | 14 | 318 | 8 | 11 | 3.54 |
| 298 | 16 | 316 | 9 | 11 | 2.13 |
| 299 | 18 | 316 | 7 | 10 | 2.74 |
| 300 | 21 | 328 | 8 | 10 | 4.03 |
| 301 | 19 | 325 | 8 | 10 | 2.57 |
| 302 | 20 | 336 | 10 | 11 | 3.92 |
| 303 | 22 | 332 | 9 | 10 | 3.92 |
| 304 | 23 | 326 | 9 | 10 | 4.33 |
| 305 | 19 | 337 | 9 | 10 | 4.57 |
| 306 | 10 | 348 | 8 | 12 | 3.67 |
| 307 | 11 | 340 | 12 | 14 | 5.55 |
| 308 | 10 | 334 | 10 | 13 | 4.60 |
| 309 | 7 | 333 | 11 | 13 | 8.10 |
| 310 | 9 | 323 | 11 | 13 | 4.22 |
| 328 | 11 | 313 | 7 | 9 | 4.81 |
| 329 | 17 | 341 | 6 | 9 | 4.30 |
| 330 | 19 | 349 | 8 | 11 | 4.51 |
| 331 | 23 | 346 | 8 | 12 | 4.33 |
| 332 | 16 | 358 | 7 | 11 | 5.71 |
| 333 | 18 | 358 | 6 | 10 | 5.21 |
| 334 | 17 | 329 | 8 | 10 | 4.15 |
| 335 | 15 | 327 | 8 | 10 | 4.06 |
| 336 | 27 | 350 | 7 | 10 | 5.11 |
| 337 | 25 | 355 | 7 | 11 | 4.59 |
| 338 | 22 | 348 | 9 | 12 | 4.04 |
| 339 | 28 | 345 | 9 | 12 | 4.29 |
| 340 | 22 | 346 | 9 | 11 | 4.88 |
| 341 | 17 | 348 | 9 | 12 | 4.13 |
| 342 | 11 | 004 | 11 | 14 | 5.36 |
| 343 | 12 | 002 | 13 | 16 | 7.79 |
| 344 | 8 | 355 | 12 | 15 | 8.89 |
| 345 | 11 | 333 | 9 | 11 | 3.98 |
| 346 | 7 | 013 | 8 | 11 | 4.54 |
| 364 | 8 | 329 | 9 | 9 | 3.61 |
| 365 | 7 | 317 | 9 | 11 | 3.42 |
| 366 | 12 | 354 | 10 | 13 | 4.36 |
| 367 | 12 | 359 | 9 | 12 | 4.86 |
| 368 | 9 | 025 | 7 | 12 | 7.28 |
| 369 | 14 | 013 | 8 | 14 | 7.84 |
| 370 | 16 | 024 | 10 | 14 | 7.32 |
| 371 | 16 | 008 | 10 | 12 | 5.35 |
| 372 | 19 | 354 | 11 | 13 | 4.03 |
| 373 | 19 | 006 | 8 | 11 | 4.97 |
| 374 | 26 | 000 | 9 | 12 | 5.27 |
| 375 | 23 | 011 | 9 | 12 | 5.98 |
| 376 | 23 | 017 | 9 | 12 | 5.93 |
| 377 | 15 | 031 | 9 | 12 | 4.10 |
| 378 | 13 | 015 | 10 | 14 | 8.13 |
| 379 | 11 | 017 | 13 | 15 | 7.98 |
| 380 | 12 | 018 | 11 | 15 | 6.62 |
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| 382 | 7 | 039 | 9 | 12 | 8.33 |
| 403 | 6 | 009 | 15 | 16 | 9.58 |
| 405 | 5 | 032 | 9 | 10 | 7.67 |
| 406 | 13 | 035 | 11 | 14 | 8.68 |
| 407 | 18 | 033 | 14 | 17 | 7.25 |
| 408 | 29 | 027 | 14 | 16 | 6.66 |
| 409 | 23 | 007 | 10 | 13 | 4.91 |
| 410 | 21 | 016 | 12 | 14 | 6.54 |
| 411 | 17 | 019 | 13 | 14 | 7.25 |
| 412 | 22 | 035 | 13 | 15 | 6.75 |
| 413 | 20 | 044 | 14 | 17 | 7.37 |
| 414 | 18 | 037 | 15 | 17 | 6.99 |
| 415 | 14 | 033 | 13 | 14 | 8.16 |
| 416 | 18 | 039 | 11 | 14 | 5.61 |
| 417 | 11 | 063 | 11 | 13 | 5.73 |
| 418 | 9 | 046 | 10 | 13 | 7.06 |
| 419 | 6 | 069 | 6 | 10 | 4.47 |
| 420 | 7 | 056 | 6 | 10 | 4.56 |
| 421 | 6 | 018 | 6 | 8 | 4.33 |
| 443 | 7 | 027 | 13 | 17 | 4.72 |
| 444 | 22 | 032 | 16 | 18 | 8.59 |
| 445 | 34 | 036 | 17 | 19 | 6.98 |
| 446 | 22 | 043 | 15 | 18 | 7.52 |
| 447 | 23 | 047 | 17 | 19 | 7.21 |
| 448 | 23 | 042 | 15 | 17 | 6.39 |
| 449 | 20 | 048 | 13 | 16 | 7.19 |
| 450 | 26 | 049 | 17 | 18 | 9.41 |
| 451 | 26 | 051 | 16 | 18 | 9.13 |
| 452 | 18 | 057 | 11 | 15 | 6.47 |
| 453 | 16 | 060 | 10 | 15 | 7.81 |
| 454 | 18 | 062 | 11 | 16 | 8.27 |
| 455 | 13 | 059 | 15 | 18 | 8.77 |
| 456 | 8 | 066 | 14 | 17 | 9.50 |
| 457 | 10 | 072 | 11 | 13 | 6.32 |
| 458 | 8 | 075 | 13 | 15 | 6.11 |
| 480 | 8 | 027 | 21 | 23 | 7.11 |
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| 482 | 26 | 039 | 23 | 24 | 8.42 |
| 483 | 20 | 045 | 22 | 25 | 10.16 |
| 484 | 23 | 048 | 20 | 22 | 10.61 |
| 485 | 21 | 051 | 19 | 21 | 9.89 |
| 486 | 19 | 054 | 19 | 21 | 9.71 |
| 487 | 25 | 048 | 20 | 22 | 10.25 |
| 488 | 22 | 054 | 24 | 25 | 10.09 |
| 489 | 16 | 053 | 20 | 21 | 10.48 |
| 490 | 15 | 049 | 13 | 16 | 8.53 |
| 491 | 10 | 061 | 15 | 18 | 7.00 |
| 492 | 9 | 058 | 20 | 21 | 9.35 |
| 493 | 9 | 056 | 17 | 18 | 11.03 |
| 517 | 9 | 033 | 29 | 30 | 11.15 |
| 518 | 16 | 035 | 29 | 29 | 10.83 |
| 519 | 22 | 040 | 27 | 28 | 11.29 |
| 520 | 18 | 043 | 23 | 25 | 8.48 |
| 521 | 16 | 051 | 23 | 25 | 9.70 |
| 522 | 15 | 058 | 27 | 28 | 11.59 |
| 523 | 20 | 053 | 26 | 28 | 10.83 |
| 524 | 21 | 054 | 25 | 27 | 9.87 |
| 525 | 23 | 056 | 27 | 29 | 10.73 |
| 526 | 22 | 057 | 26 | 28 | 10.54 |
| 527 | 18 | 060 | 24 | 26 | 9.15 |
| 528 | 10 | 065 | 25 | 26 | 7.53 |
| 529 | 8 | 067 | 21 | 22 | 10.09 |
| 530 | 8 | 065 | 21 | 22 | 8.16 |
| 531 | 10 | 056 | 19 | 22 | 5.23 |
| 532 | 5 | 071 | 17 | 21 | 7.57 |
| 536 | 6 | 084 | 18 | 20 | 11.81 |
| 537 | 6 | 056 | 22 | 26 | 11.98 |
| 554 | 9 | 032 | 32 | 33 | 11.32 |
| 555 | 13 | 034 | 35 | 36 | 14.91 |
| 556 | 18 | 038 | 31 | 33 | 12.28 |
| 557 | 16 | 044 | 26 | 27 | 7.41 |
| 558 | 13 | 057 | 23 | 24 | 7.56 |
| 559 | 14 | 057 | 24 | 27 | 9.33 |
| 560 | 20 | 050 | 28 | 30 | 8.49 |
| 561 | 17 | 052 | 26 | 28 | 8.61 |
| 562 | 17 | 049 | 28 | 30 | 10.31 |
| 563 | 14 | 053 | 30 | 32 | 11.68 |
| 564 | 15 | 060 | 31 | 33 | 9.54 |
| 565 | 13 | 068 | 30 | 31 | 10.93 |
| 566 | 11 | 071 | 25 | 25 | 11.23 |
| 567 | 12 | 061 | 22 | 24 | 9.64 |
| 568 | 12 | 060 | 23 | 25 | 8.76 |
| 569 | 6 | 061 | 24 | 26 | 6.18 |
| 591 | 7 | 042 | 38 | 40 | 13.73 |
| 592 | 13 | 037 | 32 | 34 | 13.89 |
| 593 | 13 | 044 | 30 | 31 | 15.42 |
| 594 | 12 | 044 | 28 | 28 | 12.16 |
| 595 | 8 | 037 | 25 | 27 | 6.88 |
| 596 | 8 | 035 | 26 | 29 | 8.60 |
| 597 | 11 | 046 | 27 | 29 | 8.83 |
| 598 | 16 | 052 | 27 | 29 | 7.41 |
| 599 | 19 | 052 | 27 | 29 | 8.90 |
| 600 | 15 | 052 | 23 | 25 | 9.87 |
| 601 | 8 | 057 | 28 | 29 | 11.17 |
| 602 | 9 | 058 | 36 | 37 | 8.56 |
| 603 | 8 | 058 | 32 | 33 | 13.73 |
| 604 | 8 | 060 | 38 | 39 | 12.00 |
| 605 | 10 | 059 | 33 | 34 | 8.09 |
| 606 | 8 | 066 | 31 | 33 | 4.92 |
| 629 | 5 | 042 | 32 | 33 | 10.15 |
| 630 | 8 | 051 | 24 | 26 | 16.46 |
| 631 | 12 | 050 | 25 | 27 | 12.58 |
| 632 | 12 | 051 | 28 | 30 | 8.53 |
| 633 | 9 | 049 | 28 | 30 | 8.08 |
| 634 | 10 | 047 | 23 | 26 | 5.39 |
| 635 | 9 | 052 | 25 | 27 | 7.01 |
| 636 | 12 | 047 | 31 | 33 | 11.01 |
| 637 | 10 | 049 | 32 | 34 | 8.55 |
| 638 | 8 | 062 | 30 | 32 | 8.06 |
| 639 | 7 | 062 | 32 | 33 | 6.90 |
| 640 | 6 | 060 | 29 | 29 | 9.76 |
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| 642 | 7 | 057 | 39 | 41 | 11.53 |
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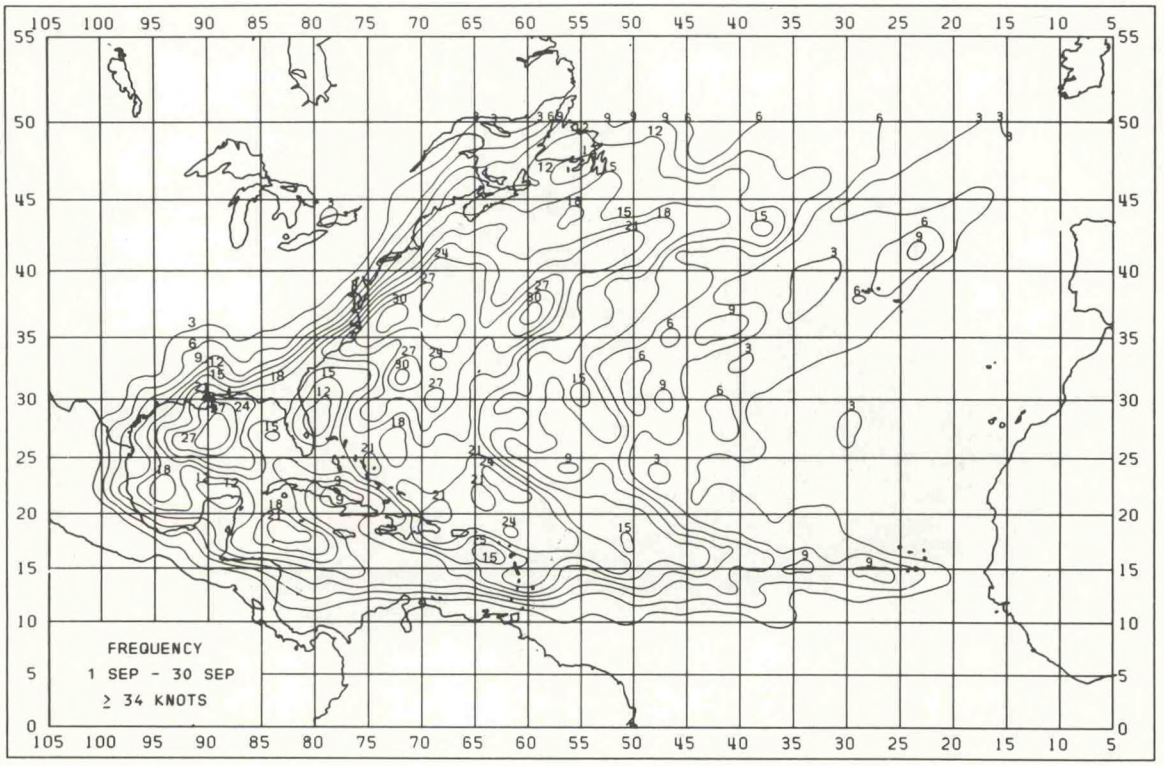
FREQUENCY
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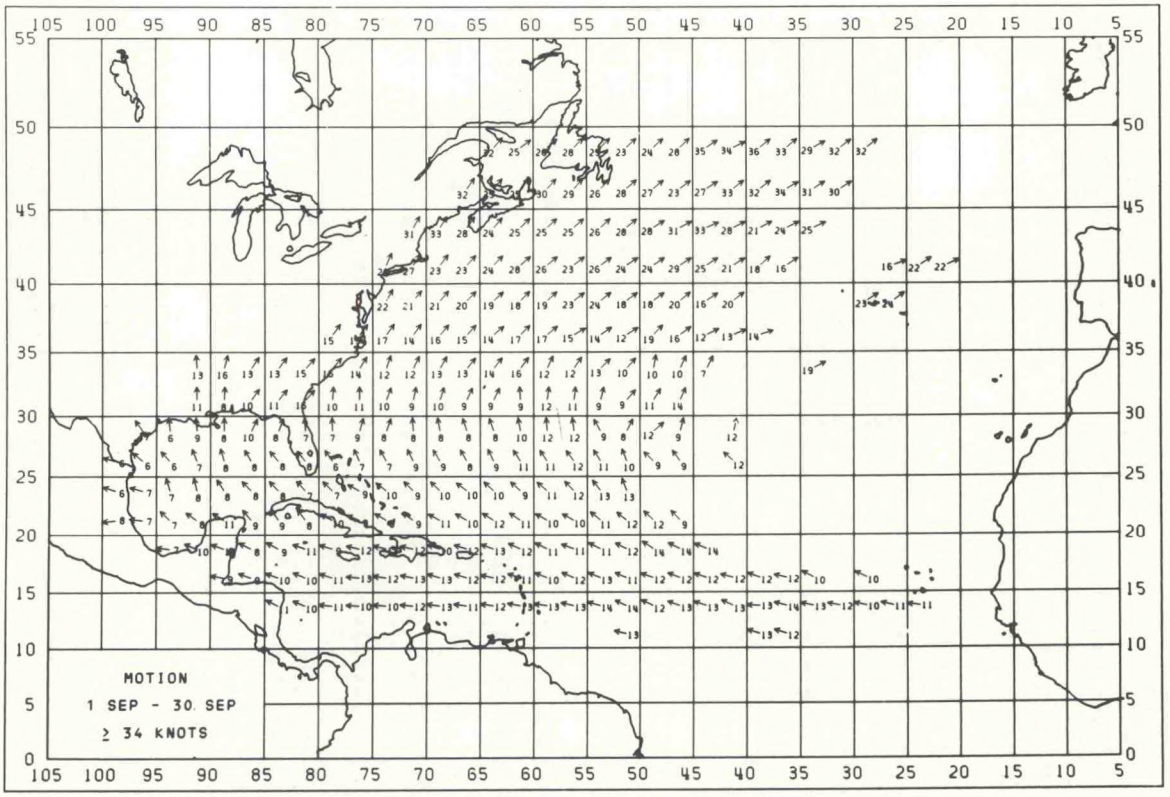
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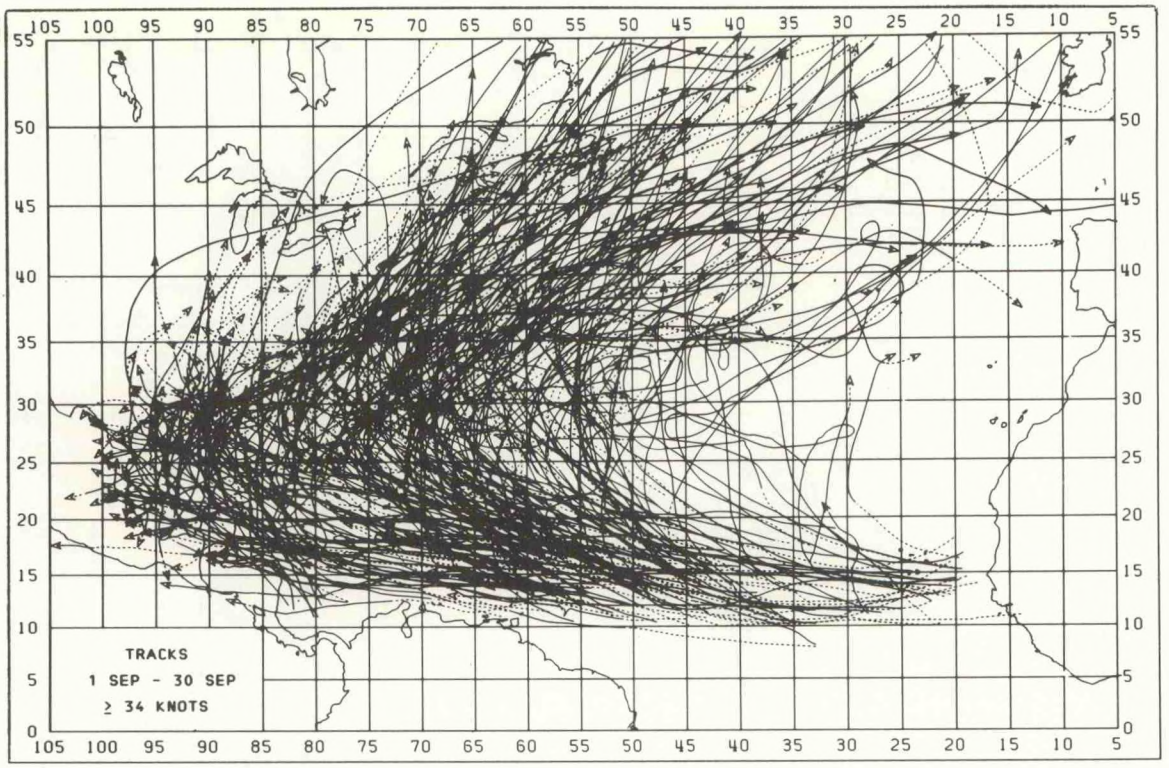
1 SEP - 30 SEP
≥ 34 KNOTS

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| 94 | 5 | 282 | 13 | 14 | 4.13 |
| 99 | 6 | 286 | 13 | 13 | 4.18 |
| 100 | 6 | 287 | 12 | 12 | 3.34 |
| 117 | 6 | 298 | 11 | 12 | 3.62 |
| 118 | 9 | 292 | 10 | 11 | 4.16 |
| 119 | 8 | 277 | 11 | 11 | 4.06 |
| 120 | 11 | 274 | 10 | 10 | 3.16 |
| 121 | 11 | 275 | 10 | 10 | 3.39 |
| 122 | 11 | 275 | 12 | 12 | 3.59 |
| 123 | 12 | 278 | 13 | 14 | 3.77 |
| 124 | 10 | 278 | 11 | 12 | 2.71 |
| 125 | 17 | 279 | 12 | 12 | 2.81 |
| 126 | 19 | 280 | 13 | 13 | 4.18 |
| 127 | 17 | 279 | 13 | 15 | 3.75 |
| 128 | 12 | 283 | 13 | 14 | 4.04 |
| 129 | 10 | 286 | 14 | 14 | 4.65 |
| 130 | 13 | 293 | 14 | 14 | 5.44 |
| 131 | 14 | 295 | 12 | 13 | 3.85 |
| 132 | 8 | 289 | 13 | 13 | 4.50 |
| 133 | 9 | 288 | 13 | 13 | 4.70 |
| 134 | 10 | 295 | 13 | 13 | 4.41 |
| 135 | 5 | 273 | 13 | 13 | 4.19 |
| 136 | 6 | 284 | 14 | 14 | 2.14 |
| 137 | 6 | 281 | 13 | 13 | 3.07 |
| 138 | 7 | 280 | 12 | 13 | 4.36 |
| 139 | 8 | 281 | 10 | 11 | 4.28 |
| 140 | 8 | 283 | 11 | 12 | 3.51 |
| 141 | 7 | 276 | 11 | 11 | 4.77 |
| 151 | 10 | 281 | 9 | 10 | 3.90 |
| 152 | 15 | 290 | 9 | 10 | 3.46 |
| 153 | 15 | 291 | 10 | 11 | 3.50 |
| 154 | 16 | 292 | 10 | 11 | 4.54 |
| 155 | 17 | 288 | 11 | 12 | 4.99 |
| 156 | 11 | 275 | 13 | 13 | 5.10 |
| 157 | 9 | 278 | 12 | 12 | 3.80 |
| 158 | 11 | 281 | 13 | 13 | 3.50 |
| 159 | 12 | 287 | 13 | 13 | 4.33 |
| 160 | 16 | 287 | 12 | 12 | 3.64 |
| 161 | 14 | 282 | 12 | 13 | 3.07 |
| 162 | 17 | 287 | 11 | 11 | 2.80 |
| 163 | 20 | 292 | 10 | 11 | 2.99 |
| 164 | 20 | 292 | 12 | 13 | 6.11 |
| 165 | 20 | 292 | 13 | 13 | 6.11 |
| 166 | 18 | 292 | 11 | 12 | 5.14 |
| 167 | 16 | 289 | 12 | 13 | 4.13 |
| 168 | 17 | 290 | 12 | 12 | 3.54 |
| 169 | 17 | 288 | 12 | 13 | 3.67 |
| 170 | 12 | 284 | 12 | 13 | 3.19 |
| 171 | 11 | 289 | 12 | 12 | 2.80 |
| 172 | 6 | 282 | 12 | 12 | 2.98 |
| 173 | 8 | 298 | 10 | 12 | 2.84 |
| 175 | 6 | 294 | 10 | 11 | 4.33 |
| 185 | 10 | 276 | 7 | 10 | 4.20 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 186 | 8 | 293 | 10 | 11 | 4.29 |
| 187 | 12 | 289 | 11 | 12 | 4.56 |
| 188 | 16 | 296 | 8 | 9 | 4.04 |
| 189 | 25 | 298 | 9 | 10 | 3.90 |
| 190 | 19 | 289 | 11 | 12 | 4.12 |
| 191 | 13 | 287 | 9 | 10 | 3.43 |
| 192 | 12 | 283 | 12 | 12 | 3.10 |
| 193 | 17 | 284 | 11 | 11 | 3.08 |
| 194 | 17 | 282 | 12 | 12 | 2.65 |
| 195 | 24 | 288 | 10 | 11 | 2.68 |
| 196 | 22 | 287 | 12 | 13 | 3.34 |
| 197 | 24 | 289 | 13 | 13 | 3.25 |
| 198 | 25 | 294 | 12 | 12 | 3.51 |
| 199 | 25 | 295 | 11 | 11 | 3.44 |
| 200 | 21 | 289 | 11 | 11 | 2.86 |
| 201 | 16 | 296 | 11 | 12 | 3.54 |
| 202 | 14 | 295 | 12 | 13 | 4.13 |
| 203 | 16 | 302 | 14 | 14 | 4.90 |
| 204 | 12 | 295 | 14 | 14 | 6.62 |
| 205 | 7 | 292 | 14 | 14 | 5.66 |
| 219 | 8 | 265 | 8 | 10 | 4.35 |
| 220 | 14 | 276 | 7 | 8 | 4.19 |
| 221 | 18 | 314 | 7 | 9 | 3.54 |
| 222 | 14 | 305 | 8 | 10 | 3.09 |
| 223 | 11 | 302 | 11 | 12 | 3.00 |
| 224 | 14 | 320 | 9 | 10 | 3.56 |
| 225 | 19 | 325 | 9 | 10 | 3.99 |
| 226 | 13 | 321 | 8 | 10 | 3.14 |
| 227 | 7 | 298 | 10 | 11 | 2.36 |
| 228 | 8 | 292 | 9 | 9 | 2.61 |
| 229 | 12 | 300 | 8 | 10 | 3.41 |
| 230 | 21 | 304 | 9 | 10 | 3.36 |
| 231 | 21 | 298 | 11 | 11 | 4.48 |
| 232 | 24 | 299 | 10 | 11 | 4.52 |
| 233 | 19 | 302 | 12 | 13 | 4.15 |
| 234 | 25 | 303 | 11 | 11 | 3.82 |
| 235 | 24 | 299 | 10 | 11 | 4.21 |
| 236 | 16 | 298 | 10 | 12 | 3.81 |
| 237 | 16 | 309 | 11 | 13 | 5.09 |
| 238 | 13 | 306 | 12 | 14 | 5.04 |
| 239 | 12 | 312 | 12 | 13 | 4.08 |
| 240 | 6 | 316 | 9 | 12 | 5.33 |
| 255 | 9 | 288 | 6 | 8 | 3.93 |
| 256 | 10 | 286 | 7 | 9 | 2.53 |
| 257 | 17 | 344 | 7 | 10 | 3.63 |
| 258 | 13 | 347 | 8 | 11 | 4.13 |
| 259 | 19 | 328 | 8 | 10 | 3.76 |
| 260 | 20 | 316 | 8 | 10 | 3.34 |
| 261 | 15 | 317 | 8 | 9 | 3.17 |
| 262 | 14 | 318 | 7 | 10 | 3.04 |
| 263 | 16 | 315 | 7 | 9 | 3.56 |
| 264 | 16 | 299 | 9 | 10 | 3.96 |
| 265 | 21 | 308 | 10 | 10 | 4.01 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 266 | 19 | 316 | 9 | 11 | 3.48 |
| 267 | 19 | 314 | 10 | 11 | 4.12 |
| 268 | 21 | 308 | 10 | 11 | 3.93 |
| 269 | 25 | 313 | 10 | 11 | 4.07 |
| 270 | 18 | 312 | 9 | 11 | 3.23 |
| 271 | 11 | 310 | 11 | 12 | 4.72 |
| 272 | 8 | 316 | 12 | 12 | 3.35 |
| 273 | 12 | 324 | 13 | 15 | 6.01 |
| 274 | 8 | 340 | 13 | 15 | 5.73 |
| 291 | 8 | 286 | 6 | 7 | 3.28 |
| 292 | 14 | 310 | 6 | 9 | 2.62 |
| 293 | 22 | 318 | 6 | 8 | 3.04 |
| 294 | 28 | 338 | 7 | 10 | 3.28 |
| 295 | 27 | 344 | 8 | 11 | 3.61 |
| 296 | 18 | 330 | 8 | 11 | 4.81 |
| 297 | 17 | 320 | 8 | 10 | 3.25 |
| 298 | 15 | 321 | 8 | 11 | 2.41 |
| 299 | 15 | 327 | 6 | 11 | 3.02 |
| 300 | 21 | 336 | 7 | 10 | 4.39 |
| 301 | 18 | 331 | 7 | 9 | 2.27 |
| 302 | 19 | 334 | 9 | 11 | 3.90 |
| 303 | 21 | 329 | 9 | 10 | 3.89 |
| 304 | 21 | 330 | 8 | 9 | 3.80 |
| 305 | 17 | 335 | 9 | 10 | 4.23 |
| 306 | 11 | 328 | 11 | 13 | 4.25 |
| 307 | 14 | 327 | 11 | 13 | 5.66 |
| 308 | 13 | 324 | 12 | 14 | 4.82 |
| 309 | 10 | 329 | 11 | 14 | 7.05 |
| 310 | 11 | 339 | 10 | 13 | 5.96 |
| 311 | 5 | 314 | 9 | 12 | 6.63 |
| 312 | 6 | 324 | 9 | 14 | 7.03 |
| 314 | 6 | 311 | 12 | 16 | 4.18 |
| 328 | 9 | 324 | 7 | 10 | 4.43 |
| 329 | 15 | 354 | 6 | 9 | 4.54 |
| 330 | 21 | 355 | 9 | 11 | 4.36 |
| 331 | 28 | 000 | 8 | 12 | 4.53 |
| 332 | 22 | 026 | 10 | 13 | 7.01 |
| 333 | 21 | 021 | 8 | 12 | 7.43 |
| 334 | 12 | 356 | 7 | 11 | 5.54 |
| 335 | 11 | 358 | 7 | 10 | 4.33 |
| 336 | 23 | 016 | 9 | 12 | 5.71 |
| 337 | 25 | 019 | 8 | 11 | 5.55 |
| 338 | 23 | 356 | 8 | 11 | 4.11 |
| 339 | 27 | 350 | 8 | 11 | 4.46 |
| 340 | 24 | 343 | 8 | 11 | 4.18 |
| 341 | 16 | 342 | 8 | 12 | 4.15 |
| 342 | 17 | 350 | 10 | 13 | 5.56 |
| 343 | 11 | 356 | 12 | 16 | 8.56 |
| 344 | 10 | 353 | 12 | 16 | 7.79 |
| 345 | 13 | 330 | 9 | 11 | 3.65 |
| 346 | 9 | 027 | 8 | 12 | 4.64 |
| 347 | 6 | 050 | 12 | 15 | 6.01 |
| 348 | 8 | 014 | 9 | 15 | 8.86 |

| A | B | C | D | E | F |
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| 366 | 15 | 358 | 11 | 14 | 3.88 |
| 367 | 15 | 002 | 8 | 11 | 4.41 |
| 368 | 15 | 035 | 10 | 13 | 8.02 |
| 369 | 17 | 038 | 11 | 15 | 8.32 |
| 370 | 19 | 041 | 16 | 19 | 9.86 |
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| 372 | 17 | 000 | 11 | 13 | 4.88 |
| 373 | 24 | 020 | 10 | 13 | 6.69 |
| 374 | 30 | 012 | 9 | 13 | 5.88 |
| 375 | 26 | 016 | 10 | 13 | 6.30 |
| 376 | 24 | 023 | 9 | 12 | 6.13 |
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| 380 | 14 | 007 | 11 | 16 | 6.22 |
| 381 | 13 | 013 | 9 | 13 | 5.71 |
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| 405 | 7 | 037 | 13 | 14 | 8.42 |
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| 407 | 23 | 041 | 16 | 19 | 9.41 |
| 408 | 26 | 033 | 14 | 17 | 8.58 |
| 409 | 23 | 018 | 12 | 15 | 8.28 |
| 410 | 26 | 027 | 12 | 14 | 7.01 |
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| 425 | 6 | 063 | 19 | 21 | 9.61 |
| 443 | 8 | 036 | 15 | 19 | 7.48 |
| 444 | 18 | 038 | 15 | 18 | 8.25 |
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| 446 | 27 | 037 | 14 | 16 | 7.62 |
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| 452 | 19 | 060 | 15 | 19 | 8.95 |
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| A | B | C | D | E | F |
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| 457 | 9 | 064 | 12 | 14 | 7.91 |
| 458 | 11 | 069 | 13 | 14 | 6.28 |
| 459 | 8 | 072 | 14 | 15 | 4.71 |
| 481 | 17 | 030 | 22 | 25 | 9.60 |
| 482 | 25 | 040 | 21 | 22 | 9.03 |
| 483 | 27 | 042 | 21 | 23 | 10.22 |
| 484 | 26 | 045 | 20 | 22 | 11.98 |
| 485 | 22 | 048 | 19 | 21 | 11.34 |
| 486 | 20 | 045 | 18 | 20 | 9.00 |
| 487 | 25 | 048 | 19 | 20 | 10.11 |
| 488 | 21 | 053 | 23 | 24 | 9.61 |
| 489 | 16 | 052 | 24 | 25 | 10.60 |
| 490 | 14 | 053 | 18 | 21 | 9.07 |
| 491 | 12 | 054 | 18 | 21 | 9.30 |
| 492 | 11 | 051 | 20 | 22 | 12.19 |
| 493 | 11 | 056 | 16 | 17 | 10.36 |
| 494 | 5 | 053 | 20 | 21 | 8.77 |
| 499 | 5 | 058 | 23 | 26 | 14.96 |
| 500 | 7 | 053 | 24 | 26 | 12.43 |
| 517 | 7 | 025 | 29 | 31 | 13.17 |
| 518 | 14 | 035 | 27 | 28 | 12.73 |
| 519 | 20 | 039 | 23 | 24 | 10.25 |
| 520 | 22 | 044 | 23 | 24 | 9.71 |
| 521 | 21 | 046 | 24 | 26 | 10.53 |
| 522 | 19 | 051 | 28 | 30 | 10.84 |
| 523 | 18 | 052 | 26 | 27 | 10.87 |
| 524 | 20 | 054 | 23 | 24 | 9.98 |
| 525 | 23 | 056 | 26 | 27 | 11.93 |
| 526 | 23 | 057 | 24 | 26 | 12.33 |
| 527 | 18 | 058 | 24 | 26 | 11.26 |
| 528 | 10 | 059 | 29 | 30 | 10.14 |
| 529 | 8 | 058 | 25 | 26 | 16.23 |
| 530 | 7 | 059 | 21 | 22 | 11.85 |
| 531 | 10 | 050 | 18 | 21 | 8.46 |
| 532 | 5 | 057 | 16 | 20 | 12.12 |
| 536 | 7 | 072 | 16 | 19 | 12.27 |
| 537 | 9 | 058 | 22 | 25 | 10.70 |
| 538 | 6 | 067 | 22 | 26 | 10.64 |
| 554 | 6 | 030 | 31 | 31 | 13.45 |
| 555 | 13 | 033 | 33 | 35 | 15.20 |
| 556 | 16 | 037 | 28 | 30 | 12.24 |
| 557 | 17 | 042 | 24 | 25 | 4.89 |
| 558 | 17 | 047 | 25 | 26 | 9.80 |
| 559 | 16 | 048 | 25 | 27 | 11.43 |
| 560 | 19 | 049 | 25 | 27 | 10.68 |
| 561 | 15 | 049 | 26 | 28 | 8.90 |
| 562 | 15 | 050 | 28 | 30 | 11.43 |
| 563 | 15 | 059 | 28 | 30 | 12.36 |
| 564 | 18 | 062 | 31 | 33 | 10.68 |
| 565 | 16 | 067 | 33 | 34 | 12.09 |
| 566 | 16 | 064 | 28 | 30 | 14.19 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 567 | 15 | 063 | 21 | 25 | 11.31 |
| 568 | 13 | 065 | 24 | 26 | 10.55 |
| 569 | 8 | 066 | 25 | 27 | 9.62 |
| 592 | 12 | 036 | 32 | 34 | 14.58 |
| 593 | 11 | 041 | 25 | 27 | 12.88 |
| 594 | 11 | 042 | 25 | 25 | 7.37 |
| 595 | 11 | 044 | 30 | 31 | 8.89 |
| 596 | 12 | 044 | 29 | 30 | 10.09 |
| 597 | 14 | 045 | 26 | 27 | 9.15 |
| 598 | 15 | 050 | 28 | 30 | 7.16 |
| 599 | 13 | 052 | 27 | 29 | 8.73 |
| 600 | 13 | 055 | 23 | 25 | 10.59 |
| 601 | 11 | 058 | 27 | 28 | 10.48 |
| 602 | 15 | 053 | 33 | 35 | 11.64 |
| 603 | 12 | 053 | 32 | 33 | 14.87 |
| 604 | 9 | 060 | 34 | 35 | 15.50 |
| 605 | 11 | 058 | 31 | 32 | 10.82 |
| 606 | 8 | 058 | 30 | 32 | 6.68 |
| 629 | 5 | 042 | 32 | 33 | 10.15 |
| 630 | 6 | 054 | 25 | 26 | 12.39 |
| 631 | 9 | 050 | 26 | 27 | 8.97 |
| 632 | 13 | 047 | 28 | 30 | 8.52 |
| 633 | 12 | 047 | 25 | 27 | 8.25 |
| 634 | 12 | 048 | 23 | 25 | 5.19 |
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| 638 | 6 | 065 | 34 | 35 | 6.64 |
| 639 | 9 | 052 | 36 | 37 | 7.39 |
| 640 | 8 | 050 | 33 | 34 | 11.94 |
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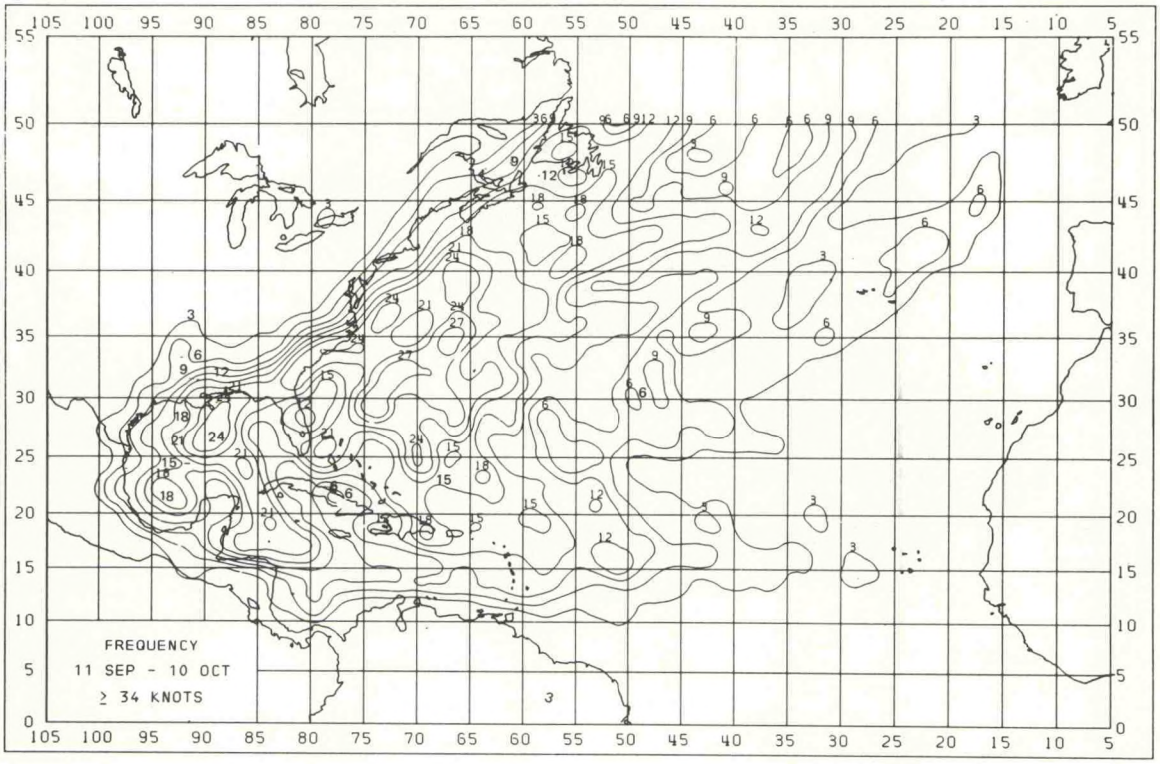
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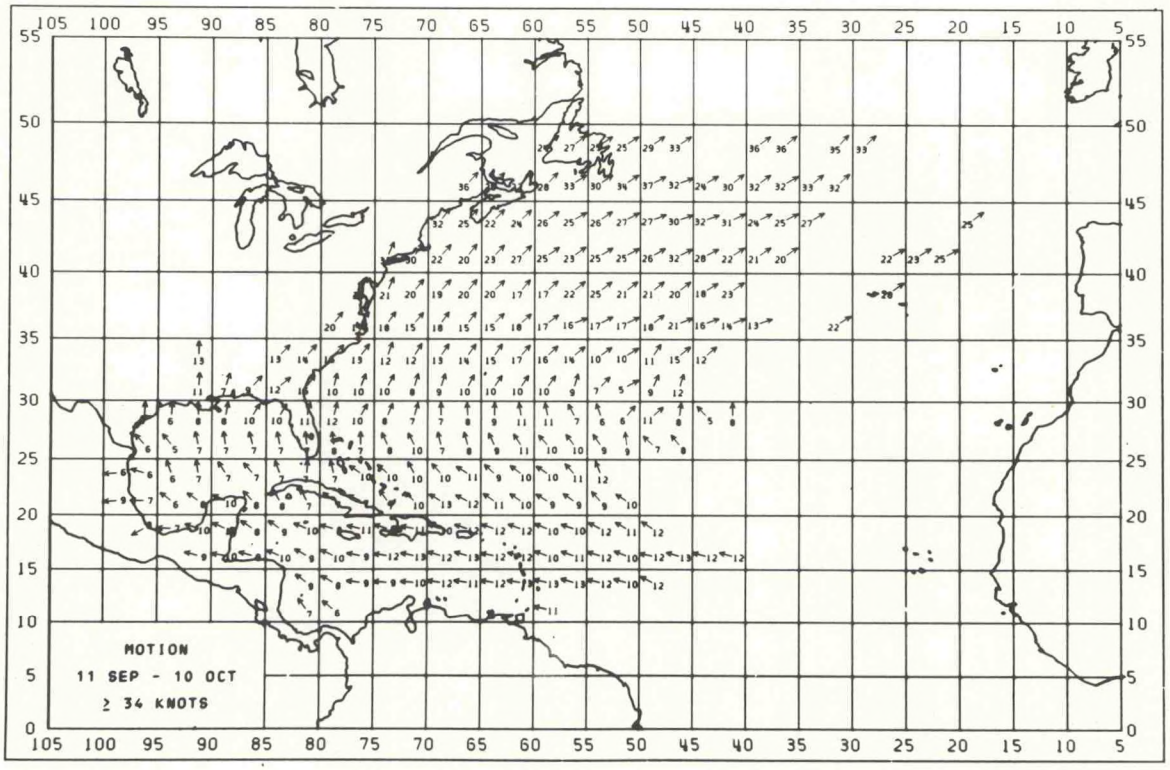
≥ 34 KNOTS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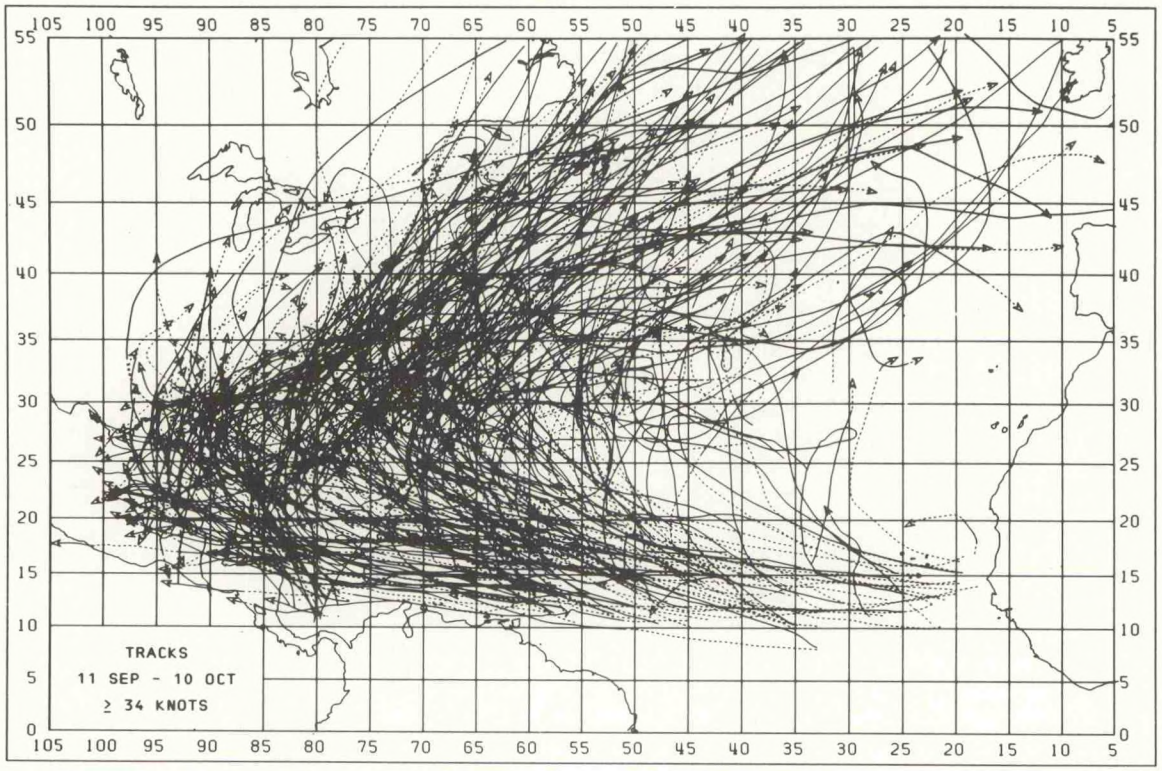


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| 83 | 7 | 310 | 6 | 8 | 6.26 |
| 91 | 5 | 283 | 11 | 11 | 4.13 |
| 118 | 8 | 309 | 9 | 10 | 4.47 |
| 119 | 9 | 301 | 8 | 10 | 3.60 |
| 120 | 9 | 278 | 9 | 9 | 2.27 |
| 121 | 8 | 275 | 9 | 9 | 3.48 |
| 122 | 8 | 275 | 10 | 10 | 2.60 |
| 123 | 10 | 279 | 12 | 12 | 2.23 |
| 124 | 9 | 279 | 11 | 12 | 1.53 |
| 125 | 11 | 279 | 12 | 12 | 3.14 |
| 126 | 9 | 279 | 13 | 13 | 4.22 |
| 127 | 10 | 283 | 13 | 15 | 4.50 |
| 128 | 9 | 286 | 13 | 14 | 4.42 |
| 129 | 8 | 283 | 12 | 13 | 3.61 |
| 130 | 8 | 285 | 10 | 11 | 3.96 |
| 131 | 7 | 297 | 12 | 12 | 4.02 |
| 150 | 6 | 286 | 9 | 11 | 3.95 |
| 151 | 10 | 279 | 10 | 10 | 2.65 |
| 152 | 16 | 286 | 9 | 10 | 3.25 |
| 153 | 17 | 294 | 10 | 10 | 3.94 |
| 154 | 18 | 301 | 9 | 10 | 4.16 |
| 155 | 13 | 297 | 10 | 12 | 5.05 |
| 156 | 11 | 282 | 9 | 11 | 5.73 |
| 157 | 6 | 279 | 12 | 12 | 4.33 |
| 158 | 8 | 282 | 13 | 13 | 3.72 |
| 159 | 10 | 288 | 12 | 13 | 4.08 |
| 160 | 12 | 287 | 13 | 13 | 3.54 |
| 161 | 11 | 282 | 12 | 13 | 3.55 |
| 162 | 11 | 284 | 12 | 12 | 3.60 |
| 163 | 13 | 291 | 10 | 11 | 3.11 |
| 164 | 12 | 289 | 11 | 11 | 5.76 |
| 165 | 11 | 288 | 12 | 12 | 4.70 |
| 166 | 14 | 291 | 10 | 11 | 4.78 |
| 167 | 12 | 281 | 12 | 13 | 3.81 |
| 168 | 7 | 285 | 13 | 13 | 2.80 |
| 169 | 8 | 285 | 12 | 12 | 3.64 |
| 170 | 5 | 285 | 12 | 12 | 4.00 |
| 184 | 6 | 239 | 8 | 11 | 2.49 |
| 185 | 11 | 273 | 7 | 10 | 3.88 |
| 186 | 10 | 290 | 10 | 10 | 4.75 |
| 187 | 12 | 295 | 10 | 11 | 4.55 |
| 188 | 16 | 306 | 8 | 9 | 4.26 |
| 189 | 23 | 307 | 9 | 10 | 4.01 |
| 190 | 16 | 293 | 10 | 11 | 4.52 |
| 191 | 9 | 286 | 8 | 9 | 3.80 |
| 192 | 8 | 284 | 11 | 12 | 3.70 |
| 193 | 14 | 287 | 9 | 11 | 3.20 |
| 194 | 13 | 282 | 11 | 12 | 2.91 |
| 195 | 18 | 290 | 10 | 11 | 2.90 |
| 196 | 15 | 288 | 12 | 13 | 2.68 |
| 197 | 16 | 290 | 12 | 13 | 2.75 |
| 198 | 14 | 290 | 12 | 12 | 2.63 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 199 | 15 | 293 | 10 | 10 | 3.25 |
| 200 | 13 | 289 | 10 | 11 | 3.05 |
| 201 | 9 | 298 | 12 | 13 | 2.92 |
| 202 | 9 | 300 | 11 | 12 | 4.85 |
| 203 | 6 | 304 | 12 | 15 | 6.25 |
| 219 | 7 | 266 | 9 | 10 | 4.91 |
| 220 | 11 | 272 | 7 | 8 | 4.72 |
| 221 | 18 | 309 | 6 | 8 | 3.21 |
| 222 | 16 | 307 | 8 | 9 | 2.88 |
| 223 | 10 | 297 | 10 | 11 | 1.87 |
| 224 | 18 | 318 | 8 | 9 | 3.49 |
| 225 | 19 | 332 | 8 | 10 | 2.98 |
| 226 | 13 | 335 | 7 | 9 | 2.75 |
| 227 | 7 | 311 | 7 | 9 | 4.32 |
| 228 | 7 | 296 | 7 | 8 | 2.69 |
| 229 | 10 | 325 | 7 | 11 | 3.17 |
| 230 | 18 | 315 | 10 | 12 | 3.43 |
| 231 | 15 | 302 | 13 | 14 | 4.27 |
| 232 | 14 | 298 | 12 | 13 | 3.52 |
| 233 | 15 | 306 | 11 | 12 | 3.14 |
| 234 | 13 | 306 | 10 | 11 | 2.87 |
| 235 | 15 | 303 | 9 | 10 | 4.23 |
| 236 | 11 | 307 | 9 | 11 | 3.51 |
| 237 | 12 | 319 | 9 | 12 | 4.89 |
| 238 | 7 | 303 | 10 | 11 | 4.49 |
| 255 | 6 | 265 | 6 | 7 | 3.24 |
| 256 | 10 | 288 | 6 | 9 | 2.98 |
| 257 | 16 | 342 | 6 | 9 | 3.09 |
| 258 | 15 | 352 | 7 | 10 | 4.22 |
| 259 | 15 | 330 | 7 | 9 | 3.58 |
| 260 | 22 | 321 | 7 | 9 | 2.96 |
| 261 | 13 | 341 | 7 | 9 | 3.72 |
| 262 | 11 | 004 | 7 | 10 | 3.34 |
| 263 | 16 | 347 | 7 | 11 | 4.12 |
| 264 | 13 | 306 | 10 | 11 | 4.43 |
| 265 | 14 | 312 | 10 | 12 | 4.22 |
| 266 | 18 | 333 | 10 | 13 | 4.61 |
| 267 | 21 | 318 | 10 | 12 | 4.75 |
| 268 | 16 | 303 | 11 | 12 | 3.47 |
| 269 | 19 | 313 | 9 | 10 | 3.73 |
| 270 | 12 | 308 | 10 | 11 | 3.37 |
| 271 | 11 | 305 | 10 | 10 | 3.94 |
| 272 | 6 | 319 | 11 | 11 | 3.28 |
| 273 | 7 | 339 | 12 | 14 | 5.84 |
| 292 | 12 | 319 | 6 | 9 | 2.64 |
| 293 | 16 | 322 | 5 | 8 | 2.73 |
| 294 | 24 | 347 | 7 | 9 | 3.42 |
| 295 | 24 | 352 | 7 | 10 | 3.95 |
| 296 | 17 | 346 | 7 | 10 | 4.84 |
| 297 | 15 | 349 | 7 | 12 | 4.19 |
| 298 | 17 | 353 | 7 | 12 | 4.16 |
| 299 | 21 | 353 | 8 | 13 | 5.19 |
| 300 | 17 | 359 | 7 | 11 | 5.15 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 301 | 15 | 335 | 8 | 10 | 2.70 |
| 302 | 20 | 333 | 10 | 11 | 3.46 |
| 303 | 21 | 346 | 7 | 11 | 4.45 |
| 304 | 17 | 345 | 8 | 10 | 4.23 |
| 305 | 14 | 335 | 9 | 11 | 4.00 |
| 306 | 10 | 327 | 11 | 13 | 4.22 |
| 307 | 9 | 318 | 10 | 11 | 3.06 |
| 308 | 6 | 323 | 10 | 13 | 5.11 |
| 309 | 6 | 325 | 9 | 12 | 4.27 |
| 310 | 8 | 352 | 9 | 12 | 6.07 |
| 311 | 6 | 313 | 7 | 10 | 6.03 |
| 312 | 7 | 321 | 8 | 14 | 6.92 |
| 328 | 6 | 004 | 7 | 9 | 5.23 |
| 329 | 11 | 003 | 6 | 8 | 4.96 |
| 330 | 19 | 359 | 8 | 10 | 4.33 |
| 331 | 26 | 010 | 8 | 11 | 4.37 |
| 332 | 20 | 030 | 10 | 13 | 7.33 |
| 333 | 18 | 028 | 10 | 14 | 7.43 |
| 334 | 10 | 015 | 11 | 15 | 5.67 |
| 335 | 15 | 014 | 12 | 16 | 6.46 |
| 336 | 23 | 029 | 10 | 13 | 5.62 |
| 337 | 29 | 022 | 8 | 12 | 5.64 |
| 338 | 21 | 015 | 7 | 10 | 3.09 |
| 339 | 23 | 000 | 7 | 10 | 4.19 |
| 340 | 26 | 356 | 8 | 11 | 4.56 |
| 341 | 15 | 001 | 9 | 15 | 6.37 |
| 342 | 17 | 351 | 11 | 14 | 6.35 |
| 343 | 6 | 348 | 11 | 13 | 6.48 |
| 344 | 8 | 334 | 7 | 12 | 3.94 |
| 345 | 10 | 341 | 6 | 10 | 2.48 |
| 346 | 9 | 038 | 6 | 11 | 4.62 |
| 347 | 6 | 048 | 11 | 14 | 6.53 |
| 348 | 8 | 006 | 8 | 14 | 8.93 |
| 349 | 7 | 318 | 5 | 11 | 4.41 |
| 350 | 8 | 359 | 8 | 14 | 5.50 |
| 366 | 14 | 005 | 11 | 13 | 3.98 |
| 367 | 16 | 018 | 7 | 11 | 4.08 |
| 368 | 18 | 041 | 9 | 12 | 7.37 |
| 369 | 18 | 049 | 12 | 16 | 7.84 |
| 370 | 23 | 035 | 15 | 19 | 8.65 |
| 371 | 13 | 013 | 10 | 14 | 5.96 |
| 372 | 20 | 020 | 10 | 14 | 7.17 |
| 373 | 27 | 027 | 10 | 14 | 7.41 |
| 374 | 27 | 015 | 8 | 14 | 6.09 |
| 375 | 26 | 017 | 9 | 13 | 5.76 |
| 376 | 22 | 028 | 10 | 13 | 6.66 |
| 377 | 23 | 034 | 10 | 15 | 5.20 |
| 378 | 20 | 033 | 10 | 16 | 6.50 |
| 379 | 13 | 035 | 10 | 15 | 5.68 |
| 380 | 10 | 016 | 9 | 14 | 5.28 |
| 381 | 11 | 042 | 7 | 14 | 8.48 |
| 382 | 9 | 060 | 5 | 12 | 8.93 |
| 383 | 9 | 023 | 9 | 14 | 7.64 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 384 | 8 | 016 | 12 | 17 | 9.17 |
| 402 | 6 | 001 | 13 | 14 | 5.50 |
| 405 | 6 | 044 | 13 | 14 | 8.57 |
| 406 | 18 | 042 | 14 | 17 | 9.21 |
| 407 | 25 | 044 | 16 | 19 | 9.81 |
| 408 | 25 | 037 | 13 | 17 | 8.74 |
| 409 | 22 | 020 | 12 | 16 | 8.50 |
| 410 | 24 | 033 | 12 | 15 | 7.53 |
| 411 | 25 | 035 | 13 | 14 | 5.36 |
| 412 | 25 | 036 | 14 | 16 | 6.63 |
| 413 | 20 | 035 | 15 | 18 | 6.73 |
| 414 | 16 | 042 | 17 | 18 | 5.25 |
| 415 | 11 | 048 | 16 | 19 | 5.54 |
| 416 | 14 | 051 | 14 | 16 | 6.53 |
| 417 | 10 | 054 | 10 | 12 | 6.52 |
| 418 | 10 | 058 | 10 | 14 | 8.64 |
| 419 | 9 | 034 | 11 | 17 | 11.64 |
| 420 | 6 | 050 | 15 | 18 | 9.18 |
| 421 | 7 | 050 | 12 | 14 | 8.60 |
| 443 | 6 | 038 | 20 | 20 | 8.26 |
| 444 | 15 | 036 | 17 | 19 | 8.36 |
| 445 | 26 | 034 | 18 | 20 | 7.77 |
| 446 | 19 | 040 | 15 | 17 | 8.03 |
| 447 | 20 | 035 | 18 | 20 | 7.41 |
| 448 | 27 | 036 | 15 | 18 | 7.53 |
| 449 | 23 | 044 | 15 | 18 | 8.11 |
| 450 | 19 | 047 | 18 | 19 | 8.07 |
| 451 | 21 | 052 | 17 | 20 | 8.13 |
| 452 | 14 | 069 | 16 | 20 | 8.68 |
| 453 | 16 | 062 | 17 | 20 | 8.58 |
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| 455 | 14 | 051 | 18 | 22 | 11.13 |
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| 457 | 10 | 070 | 16 | 18 | 9.42 |
| 458 | 8 | 069 | 14 | 16 | 6.39 |
| 459 | 6 | 071 | 13 | 15 | 5.73 |
| 462 | 5 | 056 | 22 | 23 | 11.42 |
| 480 | 6 | 023 | 20 | 22 | 8.26 |
| 481 | 15 | 024 | 21 | 24 | 10.17 |
| 482 | 21 | 040 | 20 | 21 | 7.94 |
| 483 | 24 | 042 | 19 | 21 | 8.57 |
| 484 | 25 | 040 | 20 | 22 | 10.83 |
| 485 | 23 | 045 | 20 | 23 | 11.08 |
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| 488 | 13 | 051 | 22 | 23 | 9.89 |
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| 490 | 8 | 052 | 21 | 22 | 11.08 |
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| 494 | 6 | 054 | 23 | 24 | 9.66 |
| 500 | 7 | 054 | 28 | 30 | 10.13 |

| A | B | C | D | E | F |
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| 517 | 6 | 025 | 32 | 34 | 11.47 |
| 518 | 10 | 036 | 30 | 31 | 11.98 |
| 519 | 15 | 043 | 22 | 23 | 9.32 |
| 520 | 23 | 040 | 20 | 23 | 9.43 |
| 521 | 20 | 045 | 23 | 26 | 11.46 |
| 522 | 18 | 048 | 27 | 29 | 11.71 |
| 523 | 14 | 057 | 25 | 26 | 12.55 |
| 524 | 18 | 056 | 23 | 24 | 10.17 |
| 525 | 17 | 060 | 25 | 26 | 12.32 |
| 526 | 16 | 062 | 25 | 26 | 12.68 |
| 527 | 13 | 061 | 26 | 28 | 10.37 |
| 528 | 9 | 064 | 32 | 33 | 9.51 |
| 529 | 8 | 064 | 28 | 29 | 15.48 |
| 530 | 8 | 057 | 22 | 22 | 10.67 |
| 531 | 9 | 056 | 21 | 22 | 8.97 |
| 532 | 6 | 055 | 20 | 22 | 12.19 |
| 536 | 7 | 061 | 22 | 26 | 11.29 |
| 537 | 8 | 058 | 23 | 28 | 9.31 |
| 538 | 7 | 064 | 25 | 28 | 10.84 |
| 555 | 10 | 036 | 32 | 33 | 18.37 |
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| 558 | 17 | 046 | 24 | 25 | 9.99 |
| 559 | 17 | 054 | 26 | 28 | 12.33 |
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| 566 | 13 | 064 | 31 | 33 | 12.97 |
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| 575 | 5 | 051 | 25 | 28 | 11.67 |
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| 593 | 8 | 045 | 28 | 29 | 13.55 |
| 594 | 12 | 047 | 22 | 23 | 7.29 |
| 595 | 14 | 044 | 28 | 29 | 9.53 |
| 596 | 12 | 058 | 33 | 35 | 20.13 |
| 597 | 13 | 058 | 30 | 33 | 22.24 |
| 598 | 15 | 057 | 34 | 37 | 19.16 |
| 599 | 10 | 064 | 37 | 41 | 21.81 |
| 600 | 9 | 071 | 32 | 34 | 25.38 |
| 601 | 8 | 060 | 24 | 26 | 8.39 |
| 602 | 9 | 051 | 30 | 32 | 12.39 |
| 603 | 7 | 054 | 32 | 34 | 13.86 |
| 604 | 6 | 061 | 32 | 33 | 15.70 |
| 605 | 12 | 051 | 33 | 34 | 11.53 |
| 606 | 9 | 046 | 32 | 35 | 9.73 |
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| 633 | 13 | 057 | 25 | 27 | 7.67 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
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| 635 | 14 | 054 | 29 | 31 | 10.12 |
| 636 | 11 | 055 | 33 | 34 | 13.31 |
| 639 | 7 | 053 | 36 | 38 | 8.64 |
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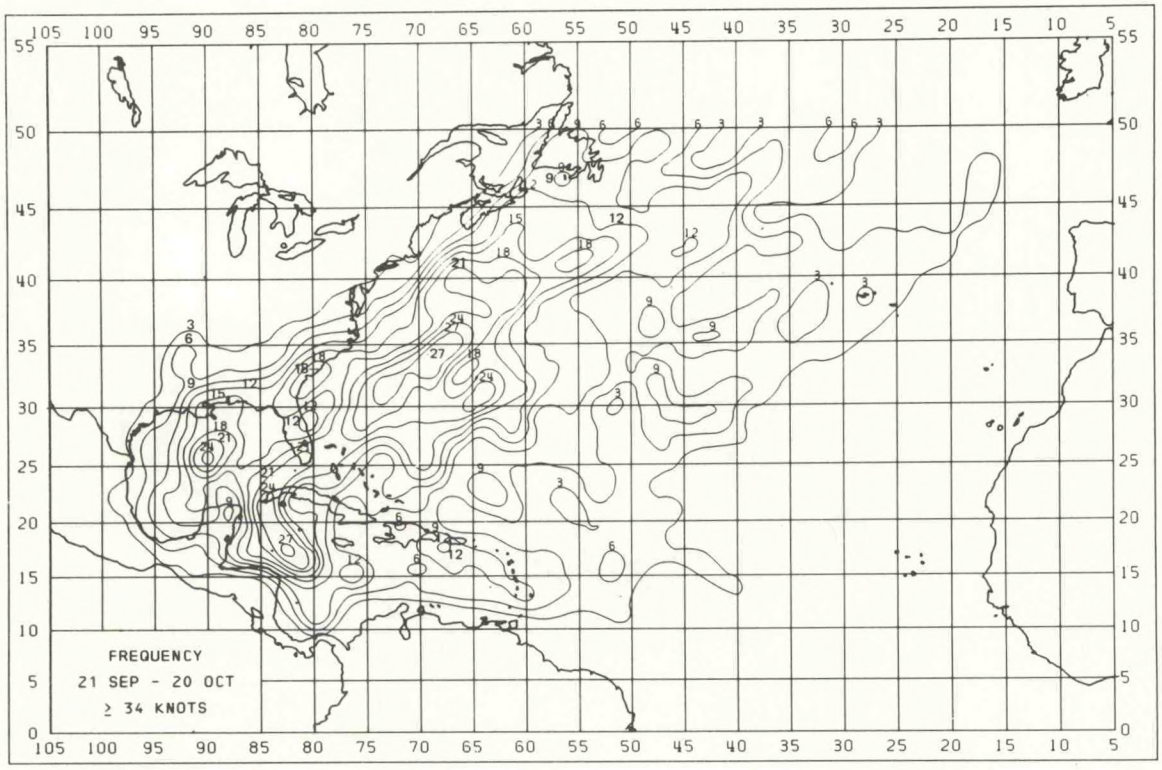
FREQUENCY
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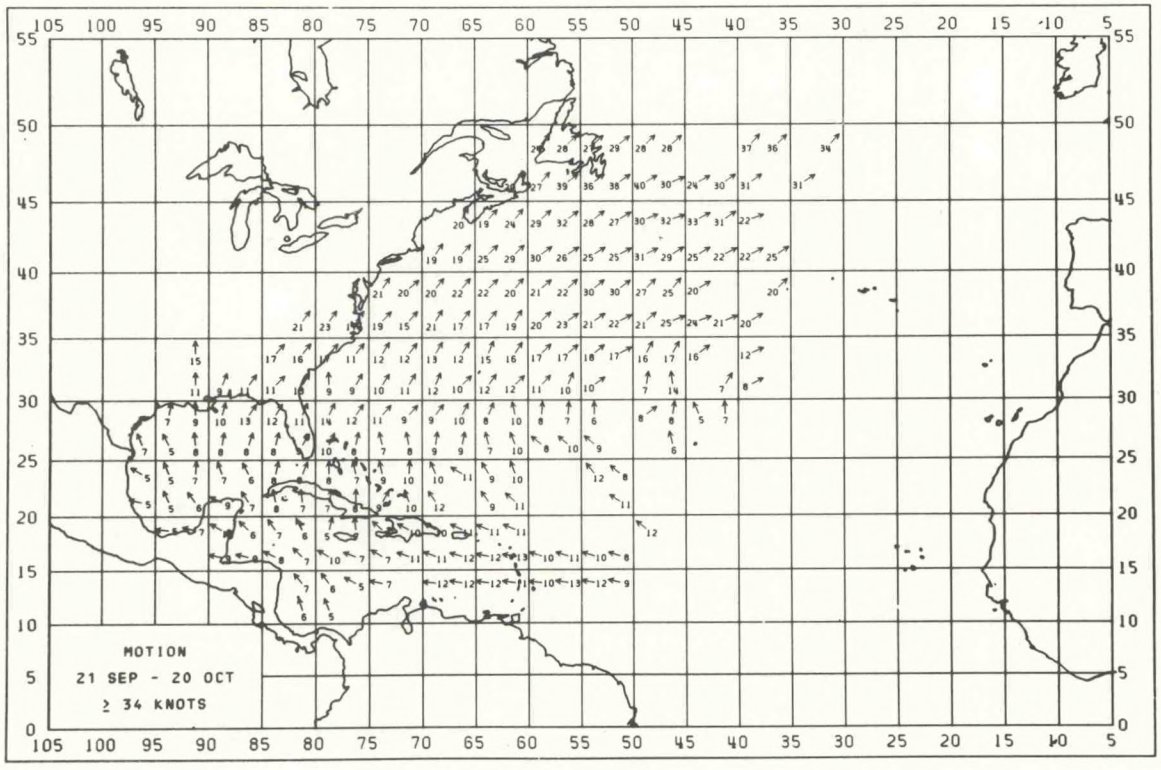
≥ 34 KNOTS


MOTION
21 SEP - 20 OCT
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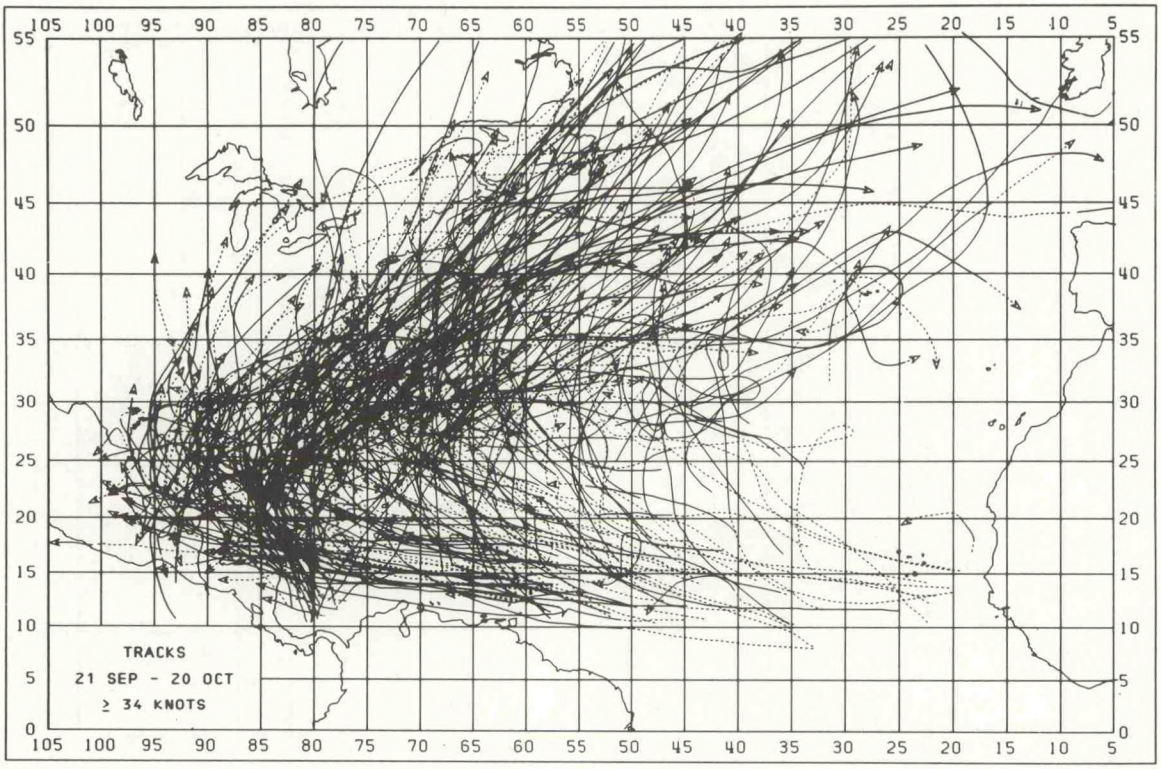


| A | B | C | D | E | F |
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| 118 | 11 | 321 | 7 | 8 | 4.58 |
| 119 | 9 | 324 | 6 | 9 | 3.62 |
| 120 | 8 | 299 | 5 | 8 | 2.28 |
| 121 | 6 | 281 | 7 | 9 | 3.66 |
| 123 | 7 | 276 | 12 | 12 | 2.24 |
| 124 | 8 | 280 | 12 | 12 | 1.74 |
| 125 | 9 | 278 | 12 | 12 | 3.39 |
| 126 | 9 | 278 | 11 | 12 | 4.31 |
| 127 | 8 | 276 | 10 | 13 | 4.82 |
| 128 | 7 | 279 | 13 | 13 | 4.87 |
| 129 | 7 | 279 | 12 | 12 | 3.81 |
| 130 | 5 | 282 | 9 | 10 | 4.04 |
| 151 | 7 | 281 | 9 | 10 | 2.20 |
| 152 | 12 | 283 | 9 | 9 | 3.61 |
| 153 | 17 | 297 | 8 | 9 | 4.74 |
| 154 | 27 | 316 | 7 | 9 | 3.83 |
| 155 | 13 | 302 | 10 | 11 | 3.94 |
| 156 | 12 | 291 | 7 | 10 | 5.17 |
| 157 | 6 | 302 | 7 | 11 | 2.94 |
| 158 | 6 | 289 | 11 | 13 | 3.52 |
| 159 | 8 | 292 | 11 | 12 | 3.49 |
| 160 | 9 | 286 | 12 | 13 | 2.39 |
| 161 | 10 | 281 | 12 | 13 | 3.78 |
| 162 | 8 | 279 | 13 | 13 | 3.78 |
| 163 | 8 | 288 | 10 | 10 | 3.25 |
| 164 | 5 | 288 | 11 | 12 | 4.47 |
| 165 | 5 | 287 | 10 | 11 | 4.16 |
| 166 | 7 | 287 | 8 | 9 | 4.21 |
| 185 | 9 | 276 | 5 | 10 | 3.60 |
| 186 | 8 | 285 | 7 | 8 | 5.45 |
| 187 | 9 | 301 | 10 | 11 | 4.56 |
| 188 | 15 | 315 | 6 | 9 | 4.46 |
| 189 | 25 | 326 | 7 | 10 | 4.58 |
| 190 | 18 | 333 | 6 | 9 | 4.68 |
| 191 | 12 | 014 | 5 | 10 | 4.02 |
| 192 | 7 | 354 | 7 | 12 | 6.24 |
| 193 | 9 | 312 | 7 | 9 | 3.07 |
| 194 | 8 | 298 | 10 | 12 | 2.72 |
| 195 | 10 | 301 | 10 | 11 | 2.42 |
| 196 | 7 | 295 | 11 | 13 | 2.71 |
| 197 | 7 | 292 | 11 | 12 | 4.28 |
| 198 | 6 | 293 | 11 | 12 | 2.26 |
| 203 | 5 | 308 | 12 | 15 | 6.96 |
| 220 | 6 | 283 | 5 | 7 | 3.55 |
| 221 | 11 | 336 | 5 | 9 | 2.47 |
| 222 | 15 | 323 | 6 | 9 | 2.81 |
| 223 | 11 | 297 | 9 | 10 | 2.87 |
| 224 | 18 | 327 | 7 | 9 | 4.26 |
| 225 | 25 | 349 | 8 | 9 | 3.66 |
| 226 | 14 | 353 | 7 | 9 | 3.40 |
| 227 | 12 | 011 | 7 | 10 | 4.10 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
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| 229 | 9 | 028 | 9 | 12 | 6.28 |
| 230 | 9 | 341 | 10 | 12 | 3.80 |
| 231 | 8 | 326 | 12 | 14 | 3.93 |
| 233 | 8 | 324 | 9 | 11 | 2.42 |
| 234 | 7 | 312 | 11 | 12 | 3.06 |
| 238 | 5 | 301 | 11 | 12 | 4.15 |
| 256 | 5 | 302 | 5 | 9 | 3.35 |
| 257 | 10 | 338 | 5 | 10 | 2.88 |
| 258 | 16 | 003 | 7 | 9 | 3.03 |
| 259 | 14 | 341 | 7 | 9 | 3.88 |
| 260 | 18 | 333 | 6 | 9 | 3.43 |
| 261 | 22 | 012 | 8 | 10 | 3.46 |
| 262 | 18 | 022 | 8 | 11 | 3.53 |
| 263 | 18 | 359 | 8 | 11 | 4.72 |
| 264 | 12 | 348 | 7 | 11 | 4.76 |
| 265 | 11 | 348 | 9 | 13 | 6.00 |
| 266 | 14 | 004 | 10 | 13 | 6.07 |
| 267 | 15 | 337 | 10 | 13 | 4.86 |
| 268 | 8 | 301 | 11 | 11 | 3.74 |
| 269 | 11 | 328 | 9 | 11 | 3.17 |
| 270 | 5 | 340 | 10 | 13 | 2.30 |
| 273 | 7 | 321 | 12 | 14 | 4.84 |
| 274 | 5 | 306 | 8 | 11 | 5.56 |
| 292 | 6 | 338 | 7 | 11 | 3.28 |
| 293 | 8 | 333 | 5 | 9 | 4.75 |
| 294 | 20 | 354 | 8 | 11 | 4.84 |
| 295 | 21 | 009 | 8 | 12 | 4.47 |
| 296 | 13 | 017 | 8 | 11 | 4.82 |
| 297 | 16 | 014 | 8 | 11 | 4.67 |
| 298 | 21 | 030 | 9 | 13 | 4.72 |
| 299 | 21 | 023 | 10 | 15 | 6.44 |
| 300 | 18 | 012 | 8 | 12 | 6.69 |
| 301 | 13 | 347 | 7 | 13 | 7.99 |
| 302 | 17 | 349 | 8 | 12 | 6.19 |
| 303 | 19 | 008 | 9 | 13 | 6.17 |
| 304 | 9 | 011 | 9 | 13 | 5.72 |
| 305 | 8 | 346 | 7 | 10 | 2.80 |
| 306 | 9 | 339 | 10 | 13 | 3.79 |
| 307 | 8 | 309 | 8 | 10 | 3.57 |
| 308 | 8 | 311 | 10 | 13 | 4.49 |
| 309 | 7 | 311 | 9 | 12 | 3.62 |
| 312 | 5 | 346 | 6 | 11 | 8.71 |
| 329 | 6 | 010 | 7 | 10 | 4.44 |
| 330 | 15 | 358 | 9 | 11 | 4.73 |
| 331 | 16 | 014 | 10 | 12 | 5.29 |
| 332 | 13 | 033 | 13 | 15 | 7.00 |
| 333 | 15 | 030 | 12 | 14 | 7.21 |
| 334 | 11 | 022 | 11 | 15 | 5.51 |
| 335 | 16 | 024 | 14 | 16 | 6.28 |
| 336 | 26 | 035 | 12 | 14 | 6.69 |
| 337 | 23 | 041 | 11 | 14 | 8.20 |
| 338 | 20 | 042 | 9 | 13 | 8.47 |

| A | B | C | D | E | F |
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| 339 | 21 | 037 | 9 | 13 | 8.61 |
| 340 | 20 | 026 | 10 | 14 | 7.00 |
| 341 | 12 | 021 | 8 | 16 | 6.51 |
| 342 | 18 | 348 | 10 | 13 | 5.60 |
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| 344 | 8 | 004 | 7 | 13 | 4.06 |
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| 347 | 6 | 052 | 8 | 13 | 7.31 |
| 348 | 9 | 008 | 8 | 13 | 8.46 |
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| 350 | 8 | 357 | 7 | 13 | 4.83 |
| 366 | 11 | 359 | 11 | 13 | 3.79 |
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| 371 | 14 | 358 | 9 | 15 | 6.60 |
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| 379 | 14 | 043 | 11 | 16 | 5.46 |
| 380 | 10 | 023 | 10 | 16 | 4.60 |
| 381 | 9 | 055 | 10 | 16 | 8.52 |
| 383 | 9 | 009 | 7 | 13 | 8.16 |
| 384 | 8 | 353 | 14 | 18 | 8.48 |
| 386 | 8 | 032 | 7 | 11 | 4.19 |
| 387 | 6 | 063 | 8 | 11 | 6.02 |
| 402 | 6 | 359 | 15 | 16 | 4.56 |
| 405 | 5 | 042 | 17 | 18 | 6.27 |
| 406 | 13 | 039 | 16 | 18 | 8.17 |
| 407 | 18 | 042 | 17 | 20 | 11.15 |
| 408 | 18 | 039 | 11 | 15 | 9.25 |
| 409 | 17 | 032 | 12 | 17 | 10.10 |
| 410 | 25 | 039 | 12 | 16 | 8.52 |
| 411 | 30 | 032 | 13 | 15 | 6.87 |
| 412 | 22 | 033 | 12 | 15 | 6.43 |
| 413 | 19 | 022 | 15 | 18 | 6.35 |
| 414 | 14 | 034 | 16 | 18 | 7.96 |
| 415 | 11 | 047 | 17 | 20 | 7.19 |
| 416 | 11 | 051 | 17 | 19 | 6.87 |
| 417 | 9 | 051 | 18 | 19 | 9.88 |
| 418 | 7 | 063 | 17 | 20 | 11.53 |
| 419 | 6 | 029 | 16 | 22 | 11.49 |
| 420 | 5 | 030 | 17 | 21 | 8.16 |
| 421 | 6 | 055 | 16 | 18 | 8.92 |
| 423 | 6 | 068 | 12 | 16 | 8.18 |
| 442 | 6 | 034 | 21 | 23 | 6.63 |
| 443 | 7 | 034 | 23 | 24 | 11.09 |
| 444 | 7 | 039 | 17 | 18 | 8.52 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
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| 446 | 14 | 041 | 15 | 18 | 9.51 |
| 447 | 18 | 031 | 21 | 24 | 8.46 |
| 448 | 26 | 036 | 17 | 19 | 7.38 |
| 449 | 22 | 039 | 17 | 20 | 7.83 |
| 450 | 14 | 032 | 19 | 20 | 5.75 |
| 451 | 11 | 045 | 20 | 23 | 9.12 |
| 452 | 10 | 054 | 23 | 25 | 11.11 |
| 453 | 11 | 055 | 21 | 23 | 8.57 |
| 454 | 8 | 063 | 22 | 24 | 8.99 |
| 455 | 10 | 049 | 21 | 25 | 12.97 |
| 456 | 7 | 069 | 25 | 27 | 11.57 |
| 457 | 8 | 070 | 24 | 25 | 9.99 |
| 458 | 9 | 068 | 21 | 23 | 10.86 |
| 459 | 7 | 058 | 20 | 22 | 11.61 |
| 481 | 6 | 034 | 21 | 26 | 13.81 |
| 482 | 10 | 050 | 20 | 22 | 9.58 |
| 483 | 21 | 039 | 20 | 22 | 9.56 |
| 484 | 19 | 039 | 22 | 24 | 11.25 |
| 485 | 21 | 046 | 22 | 25 | 10.91 |
| 486 | 23 | 040 | 20 | 22 | 9.13 |
| 487 | 15 | 049 | 21 | 22 | 10.29 |
| 488 | 10 | 047 | 22 | 23 | 10.13 |
| 489 | 8 | 050 | 30 | 31 | 10.31 |
| 490 | 6 | 052 | 30 | 31 | 9.11 |
| 491 | 8 | 045 | 27 | 28 | 8.01 |
| 492 | 8 | 040 | 25 | 27 | 12.28 |
| 493 | 6 | 060 | 20 | 20 | 12.63 |
| 496 | 6 | 046 | 20 | 21 | 9.84 |
| 519 | 10 | 034 | 19 | 21 | 10.41 |
| 520 | 19 | 041 | 19 | 22 | 10.29 |
| 521 | 18 | 045 | 25 | 27 | 12.06 |
| 522 | 19 | 045 | 29 | 31 | 12.52 |
| 523 | 15 | 054 | 30 | 31 | 13.64 |
| 524 | 18 | 057 | 26 | 27 | 12.26 |
| 525 | 18 | 058 | 25 | 26 | 11.31 |
| 526 | 14 | 062 | 25 | 26 | 13.43 |
| 527 | 10 | 064 | 31 | 33 | 12.75 |
| 528 | 10 | 058 | 29 | 32 | 10.26 |
| 529 | 10 | 059 | 25 | 27 | 13.34 |
| 530 | 6 | 062 | 22 | 23 | 12.70 |
| 531 | 5 | 064 | 22 | 25 | 16.10 |
| 532 | 5 | 056 | 25 | 27 | 18.87 |
| 556 | 5 | 028 | 20 | 21 | 14.00 |
| 557 | 11 | 043 | 19 | 20 | 7.71 |
| 558 | 15 | 039 | 24 | 25 | 11.06 |
| 559 | 14 | 048 | 29 | 31 | 14.04 |
| 560 | 12 | 053 | 32 | 34 | 18.96 |
| 561 | 12 | 052 | 28 | 31 | 10.64 |
| 562 | 12 | 058 | 27 | 30 | 10.48 |
| 563 | 10 | 069 | 30 | 31 | 12.22 |
| 564 | 11 | 072 | 32 | 34 | 13.01 |
| 565 | 10 | 062 | 33 | 35 | 11.86 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 566 | 10 | 055 | 31 | 34 | 14.05 |
| 567 | 5 | 072 | 22 | 27 | 16.45 |
| 594 | 8 | 042 | 20 | 22 | 6.27 |
| 595 | 12 | 040 | 27 | 29 | 10.20 |
| 596 | 10 | 052 | 39 | 41 | 22.45 |
| 597 | 11 | 052 | 36 | 39 | 23.21 |
| 598 | 10 | 053 | 38 | 41 | 22.02 |
| 599 | 6 | 059 | 40 | 45 | 26.13 |
| 600 | 9 | 067 | 30 | 33 | 25.50 |
| 601 | 9 | 061 | 24 | 26 | 8.99 |
| 602 | 12 | 054 | 30 | 32 | 10.92 |
| 603 | 9 | 054 | 31 | 33 | 11.82 |
| 605 | 6 | 058 | 31 | 34 | 14.43 |
| 631 | 7 | 041 | 24 | 25 | 6.45 |
| 632 | 10 | 045 | 28 | 29 | 7.63 |
| 633 | 8 | 046 | 27 | 29 | 8.37 |
| 634 | 7 | 049 | 29 | 31 | 8.98 |
| 635 | 10 | 045 | 28 | 32 | 12.19 |
| 636 | 9 | 046 | 28 | 31 | 14.37 |
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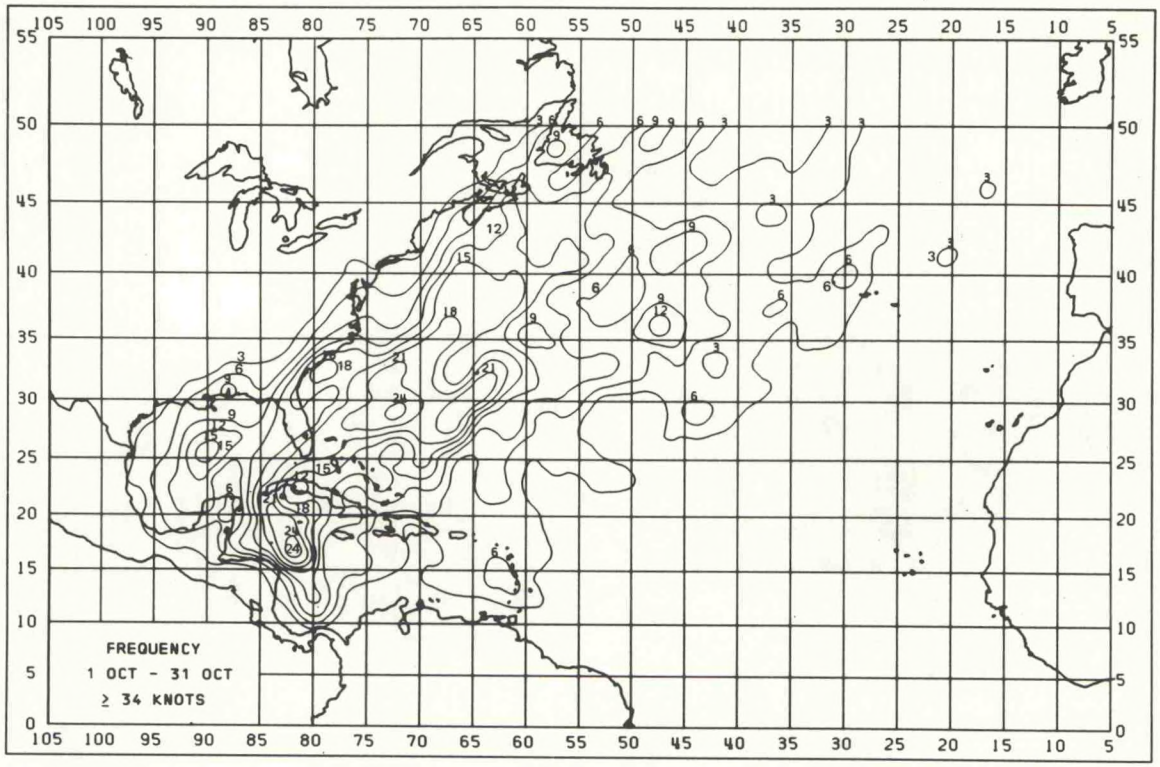
| 640 | 6 | 045 | 36 | 37 | 8.30 |
| 642 | 8 | 042 | 34 | 37 | 18.86 |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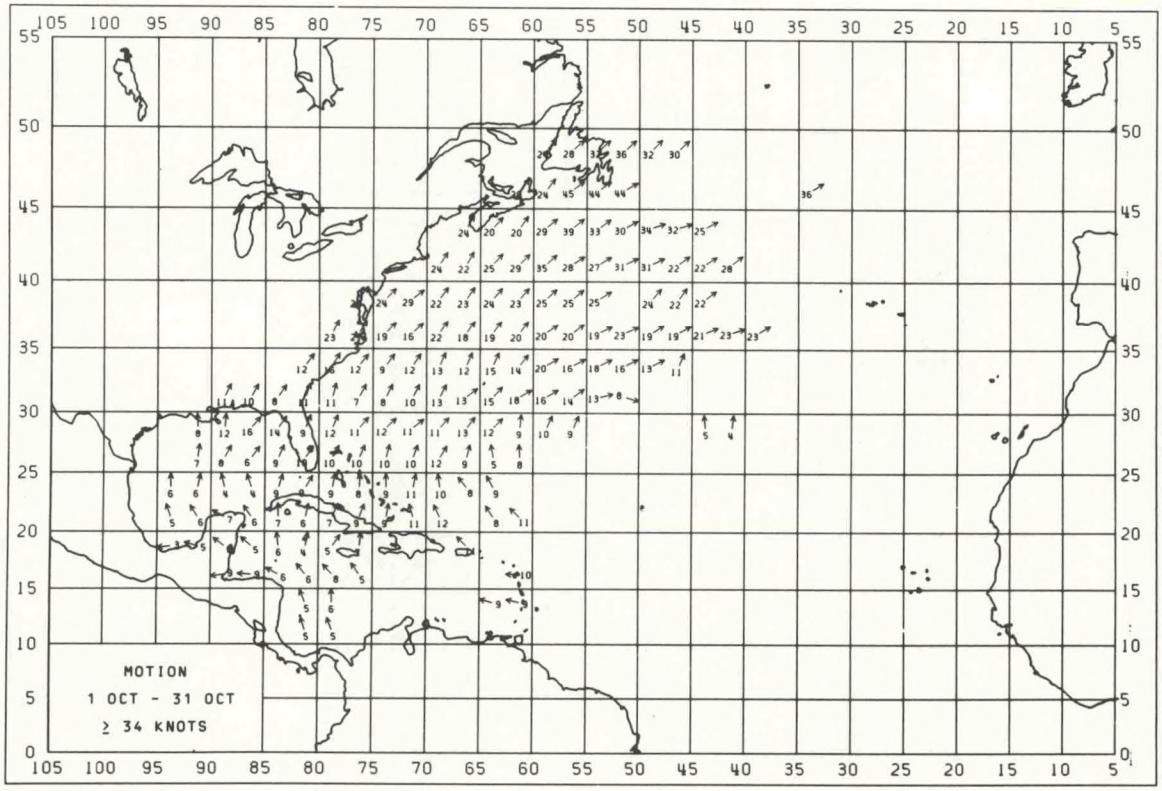
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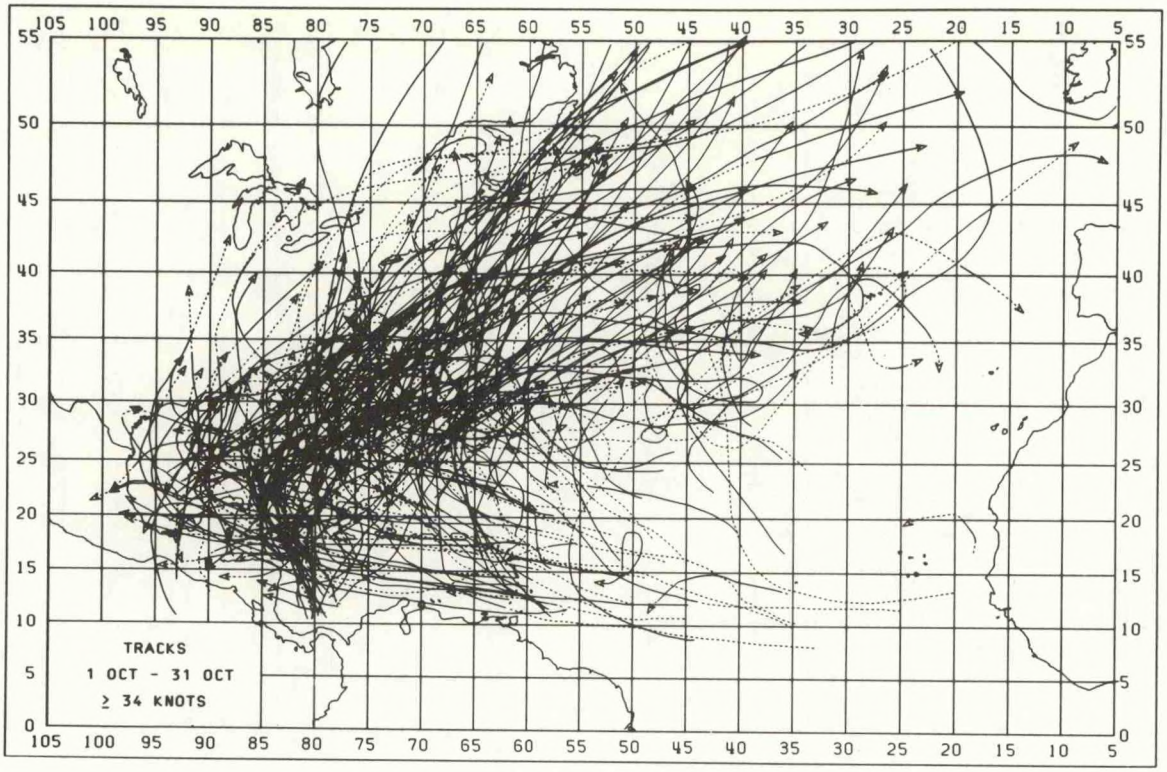


| A | B | C | D | E | F |
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| 83 | 9 | 340 | 5 | 6 | 4.70 |
| 118 | 12 | 339 | 5 | 6 | 2.76 |
| 119 | 8 | 358 | 6 | 8 | 2.73 |
| 125 | 6 | 285 | 9 | 10 | 2.37 |
| 126 | 6 | 283 | 9 | 10 | 2.52 |
| 151 | 5 | 261 | 9 | 11 | 2.18 |
| 152 | 8 | 274 | 9 | 10 | 3.50 |
| 153 | 15 | 298 | 6 | 8 | 3.85 |
| 154 | 25 | 321 | 6 | 8 | 2.64 |
| 155 | 7 | 317 | 8 | 10 | 2.54 |
| 156 | 9 | 325 | 5 | 7 | 2.81 |
| 162 | 5 | 272 | 10 | 11 | 5.62 |
| 185 | 6 | 263 | 3 | 8 | 2.97 |
| 186 | 7 | 286 | 5 | 6 | 3.96 |
| 187 | 6 | 306 | 9 | 10 | 3.48 |
| 188 | 11 | 310 | 5 | 9 | 3.35 |
| 189 | 20 | 353 | 6 | 9 | 4.07 |
| 190 | 19 | 011 | 4 | 7 | 3.11 |
| 191 | 11 | 035 | 5 | 9 | 4.87 |
| 192 | 9 | 008 | 7 | 10 | 6.85 |
| 196 | 5 | 314 | 11 | 12 | 2.58 |
| 221 | 8 | 341 | 5 | 8 | 2.38 |
| 222 | 11 | 327 | 6 | 8 | 2.29 |
| 223 | 7 | 298 | 7 | 8 | 1.76 |
| 224 | 12 | 325 | 6 | 8 | 3.69 |
| 225 | 20 | 358 | 7 | 8 | 3.62 |
| 226 | 14 | 013 | 6 | 8 | 3.32 |
| 227 | 13 | 021 | 7 | 9 | 3.87 |
| 228 | 8 | 020 | 9 | 12 | 7.32 |
| 229 | 10 | 011 | 9 | 14 | 5.56 |
| 230 | 8 | 344 | 11 | 14 | 3.65 |
| 231 | 9 | 334 | 12 | 14 | 3.92 |
| 233 | 7 | 326 | 8 | 11 | 2.32 |
| 234 | 5 | 313 | 11 | 12 | 2.37 |
| 257 | 8 | 359 | 6 | 10 | 4.17 |
| 258 | 13 | 011 | 6 | 9 | 4.18 |
| 259 | 8 | 346 | 4 | 9 | 4.14 |
| 260 | 11 | 342 | 4 | 8 | 2.94 |
| 261 | 18 | 017 | 9 | 11 | 3.44 |
| 262 | 15 | 031 | 9 | 11 | 3.53 |
| 263 | 15 | 010 | 9 | 12 | 4.42 |
| 264 | 13 | 003 | 8 | 12 | 4.68 |
| 265 | 13 | 359 | 9 | 14 | 5.47 |
| 266 | 13 | 012 | 11 | 15 | 5.37 |
| 267 | 13 | 352 | 10 | 13 | 5.22 |
| 268 | 5 | 321 | 8 | 11 | 3.71 |
| 269 | 8 | 331 | 9 | 12 | 2.73 |
| 294 | 13 | 007 | 7 | 11 | 6.44 |
| 295 | 14 | 028 | 8 | 14 | 7.06 |
| 296 | 10 | 036 | 6 | 10 | 5.85 |
| 297 | 13 | 024 | 9 | 11 | 4.82 |
| 298 | 18 | 034 | 10 | 13 | 4.60 |
| 299 | 22 | 027 | 10 | 15 | 6.32 |
| 300 | 16 | 023 | 10 | 15 | 7.49 |
| 301 | 14 | 014 | 10 | 16 | 7.47 |
| 302 | 13 | 020 | 10 | 14 | 6.70 |
| 303 | 18 | 031 | 12 | 14 | 6.92 |
| 304 | 12 | 014 | 9 | 14 | 5.12 |
| 305 | 7 | 350 | 5 | 11 | 3.71 |
| 306 | 7 | 357 | 8 | 12 | 2.95 |
| 330 | 9 | 358 | 8 | 12 | 5.35 |
| 331 | 8 | 005 | 12 | 14 | 5.80 |
| 332 | 5 | 041 | 16 | 18 | 15.00 |
| 333 | 12 | 035 | 14 | 16 | 9.87 |
| 334 | 12 | 022 | 9 | 14 | 5.28 |
| 335 | 16 | 022 | 12 | 16 | 6.57 |
| 336 | 23 | 041 | 11 | 15 | 6.79 |
| 337 | 24 | 047 | 12 | 16 | 7.46 |
| 338 | 22 | 052 | 11 | 16 | 8.00 |
| 339 | 19 | 042 | 11 | 16 | 7.98 |
| 340 | 21 | 038 | 13 | 15 | 7.10 |
| 341 | 11 | 045 | 12 | 17 | 7.35 |
| 342 | 11 | 006 | 9 | 13 | 6.26 |
| 343 | 5 | 025 | 10 | 13 | 3.41 |
| 344 | 7 | 024 | 9 | 14 | 4.04 |
| 349 | 7 | 354 | 5 | 11 | 4.63 |
| 350 | 5 | 007 | 4 | 12 | 4.30 |
| 367 | 9 | 027 | 11 | 13 | 6.15 |
| 368 | 9 | 029 | 10 | 12 | 5.05 |
| 369 | 7 | 035 | 8 | 14 | 8.21 |
| 370 | 16 | 019 | 11 | 17 | 9.04 |
| 371 | 15 | 014 | 11 | 17 | 8.87 |
| 372 | 20 | 028 | 7 | 13 | 7.58 |
| 373 | 21 | 027 | 8 | 13 | 6.30 |
| 374 | 19 | 027 | 10 | 16 | 7.06 |
| 375 | 16 | 028 | 13 | 17 | 6.32 |
| 376 | 16 | 054 | 13 | 18 | 9.64 |
| 377 | 23 | 043 | 15 | 19 | 8.24 |
| 378 | 15 | 060 | 18 | 20 | 7.48 |
| 379 | 11 | 060 | 16 | 18 | 6.37 |
| 380 | 9 | 054 | 14 | 18 | 6.34 |
| 381 | 7 | 077 | 13 | 17 | 9.07 |
| 382 | 5 | 105 | 8 | 13 | 9.39 |
| 406 | 6 | 038 | 12 | 14 | 6.02 |
| 407 | 17 | 031 | 16 | 19 | 10.32 |
| 408 | 17 | 040 | 12 | 15 | 10.12 |
| 409 | 13 | 037 | 9 | 14 | 8.49 |
| 410 | 20 | 034 | 12 | 16 | 8.33 |
| 411 | 21 | 024 | 13 | 16 | 6.98 |
| 412 | 14 | 023 | 12 | 16 | 6.29 |
| 413 | 16 | 024 | 15 | 19 | 7.91 |
| 414 | 13 | 038 | 14 | 18 | 9.18 |
| 415 | 11 | 060 | 20 | 21 | 7.21 |
| 416 | 11 | 062 | 16 | 18 | 6.75 |
| 417 | 8 | 064 | 18 | 18 | 10.36 |
| 418 | 9 | 063 | 16 | 18 | 11.04 |
| 419 | 6 | 064 | 13 | 15 | 10.29 |
| 420 | 7 | 022 | 11 | 16 | 8.21 |
| 443 | 7 | 027 | 23 | 25 | 10.18 |
| 444 | 9 | 033 | 21 | 22 | 11.77 |
| 445 | 9 | 044 | 19 | 20 | 10.51 |
| 446 | 10 | 047 | 16 | 18 | 7.34 |
| 447 | 16 | 034 | 22 | 23 | 7.04 |
| 448 | 18 | 037 | 18 | 20 | 4.75 |
| 449 | 17 | 036 | 19 | 21 | 8.67 |
| 450 | 11 | 037 | 20 | 21 | 6.33 |
| 451 | 9 | 056 | 20 | 22 | 9.83 |
| 452 | 9 | 052 | 20 | 22 | 9.55 |
| 453 | 7 | 064 | 19 | 20 | 6.52 |
| 454 | 6 | 067 | 23 | 25 | 9.73 |
| 455 | 11 | 058 | 19 | 22 | 10.74 |
| 456 | 12 | 061 | 19 | 21 | 11.67 |
| 457 | 9 | 070 | 21 | 22 | 11.38 |
| 458 | 6 | 074 | 23 | 25 | 12.85 |
| 459 | 5 | 061 | 23 | 25 | 12.77 |
| 480 | 6 | 034 | 20 | 24 | 12.99 |
| 481 | 6 | 045 | 24 | 27 | 15.61 |
| 482 | 6 | 052 | 29 | 30 | 12.78 |
| 483 | 15 | 036 | 22 | 24 | 8.23 |
| 484 | 16 | 036 | 23 | 24 | 8.66 |
| 485 | 16 | 041 | 24 | 26 | 9.38 |
| 486 | 16 | 042 | 23 | 24 | 8.55 |
| 487 | 13 | 048 | 25 | 26 | 9.23 |
| 488 | 7 | 050 | 25 | 26 | 9.38 |
| 489 | 7 | 058 | 25 | 27 | 12.36 |
| 491 | 6 | 042 | 24 | 26 | 8.04 |
| 492 | 8 | 036 | 22 | 24 | 10.74 |
| 493 | 6 | 055 | 22 | 23 | 13.62 |
| 519 | 7 | 033 | 24 | 27 | 10.81 |
| 520 | 14 | 030 | 22 | 24 | 8.44 |
| 521 | 14 | 043 | 25 | 27 | 10.50 |
| 522 | 13 | 045 | 29 | 31 | 11.95 |
| 523 | 11 | 049 | 35 | 37 | 10.41 |
| 524 | 12 | 056 | 28 | 30 | 12.70 |
| 525 | 11 | 059 | 27 | 29 | 10.46 |
| 526 | 7 | 065 | 31 | 32 | 10.91 |
| 527 | 7 | 064 | 31 | 32 | 12.15 |
| 528 | 11 | 053 | 22 | 24 | 10.00 |
| 529 | 9 | 058 | 22 | 23 | 7.60 |
| 530 | 5 | 052 | 28 | 29 | 12.26 |
| 556 | 6 | 031 | 24 | 26 | 14.00 |
| 557 | 10 | 043 | 20 | 20 | 8.79 |
| 558 | 12 | 036 | 20 | 21 | 8.23 |
| 559 | 11 | 051 | 29 | 32 | 13.13 |
| 560 | 10 | 051 | 39 | 42 | 14.77 |
| 561 | 8 | 053 | 33 | 36 | 9.79 |
| 562 | 8 | 062 | 30 | 33 | 9.55 |
| 563 | 6 | 073 | 34 | 36 | 10.82 |
| 564 | 6 | 073 | 32 | 35 | 13.95 |
| 565 | 7 | 063 | 25 | 27 | 10.77 |
| 594 | 10 | 040 | 20 | 21 | 6.52 |
| 595 | 7 | 038 | 24 | 25 | 8.34 |
| 596 | 6 | 052 | 45 | 49 | 23.35 |
| 597 | 9 | 054 | 44 | 47 | 19.95 |
| 598 | 7 | 060 | 44 | 47 | 23.03 |
| 605 | 6 | 059 | 36 | 40 | 6.41 |
| 631 | 7 | 042 | 24 | 25 | 6.25 |
| 632 | 9 | 049 | 28 | 30 | 5.90 |
| 633 | 5 | 049 | 32 | 35 | 4.58 |
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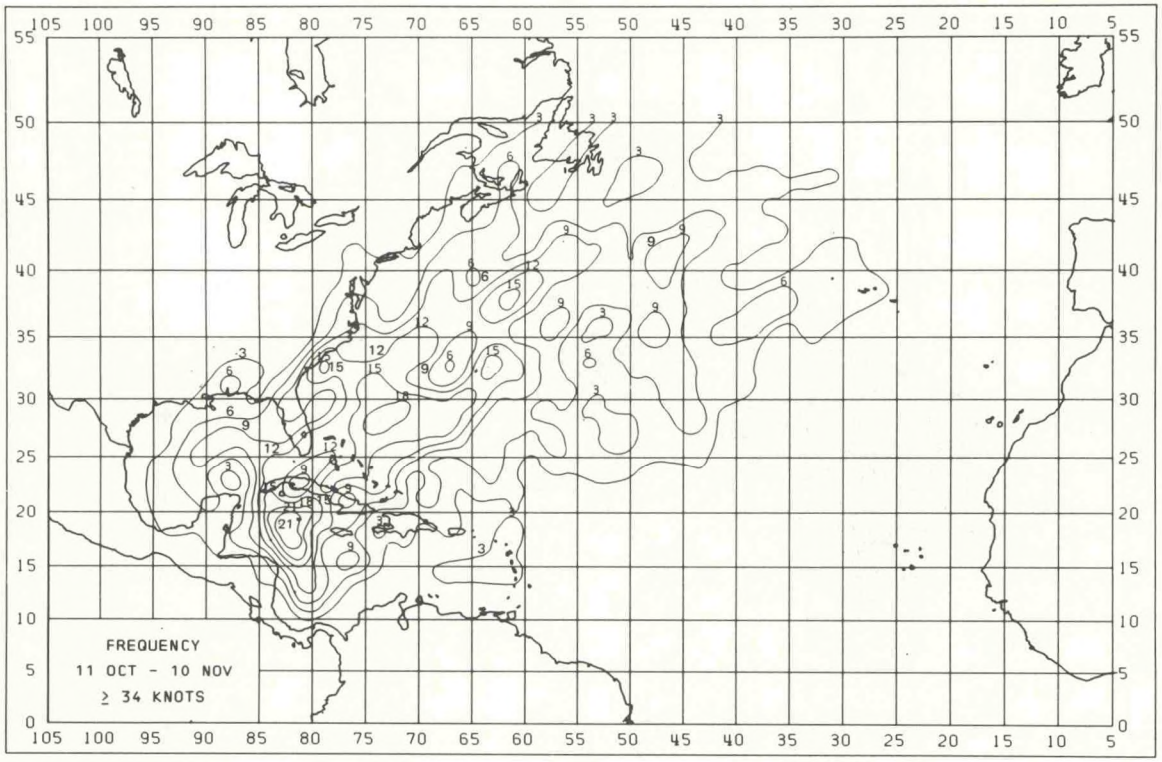
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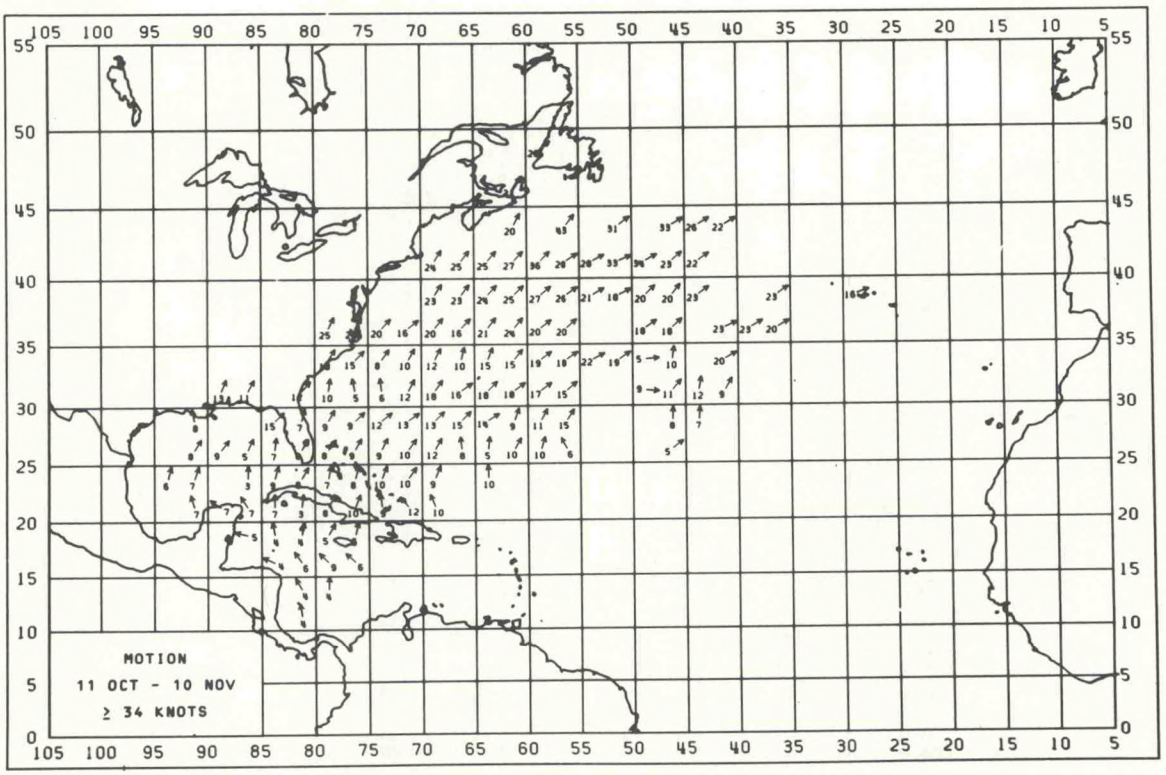
MOTION
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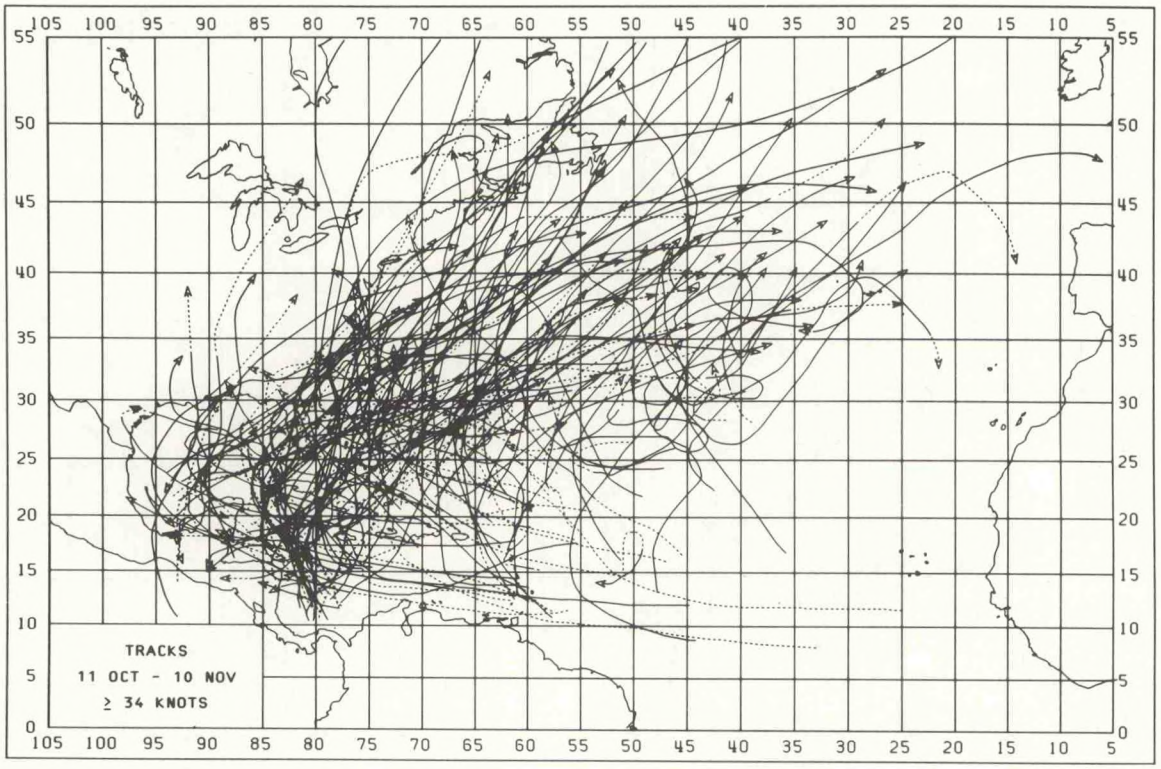


| A | B | C | D | E | F |
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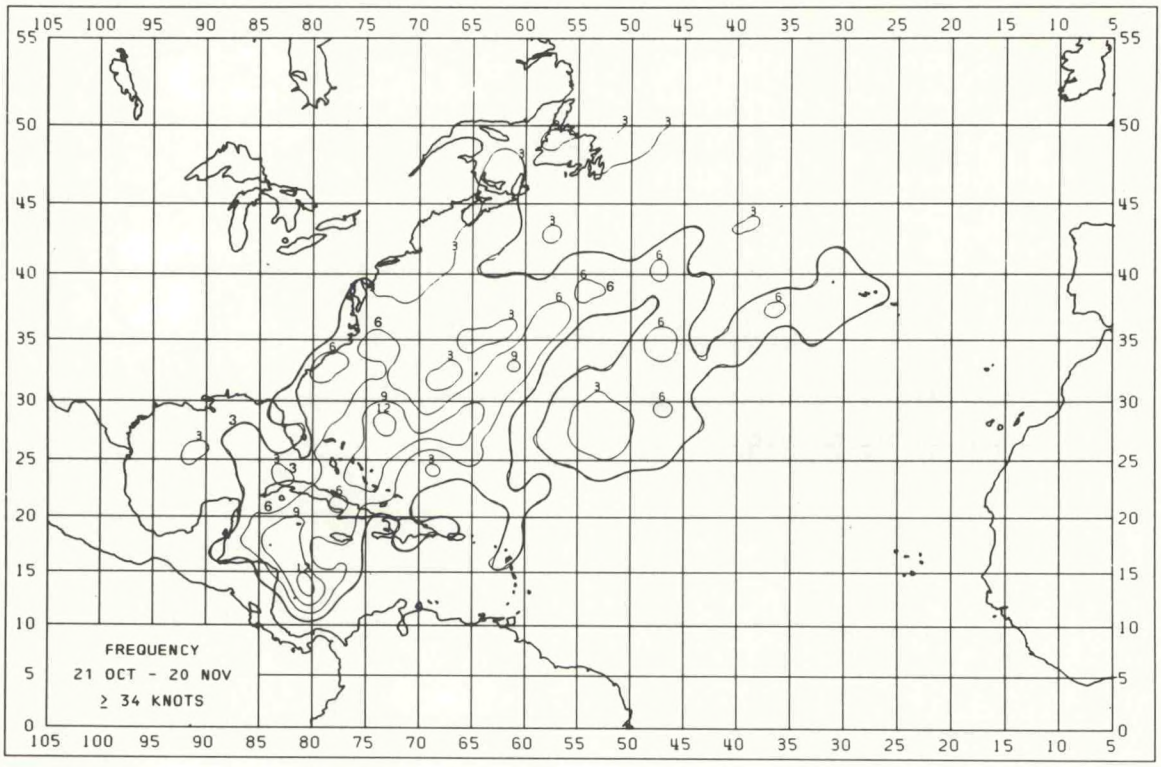
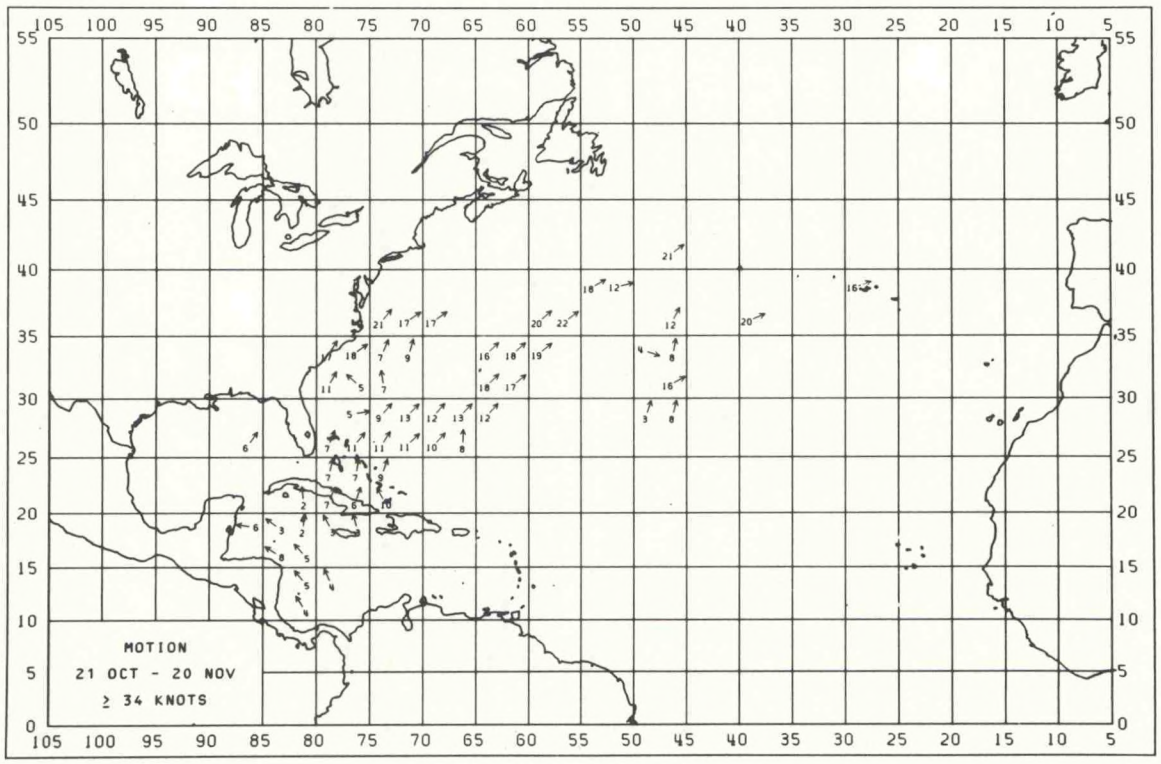
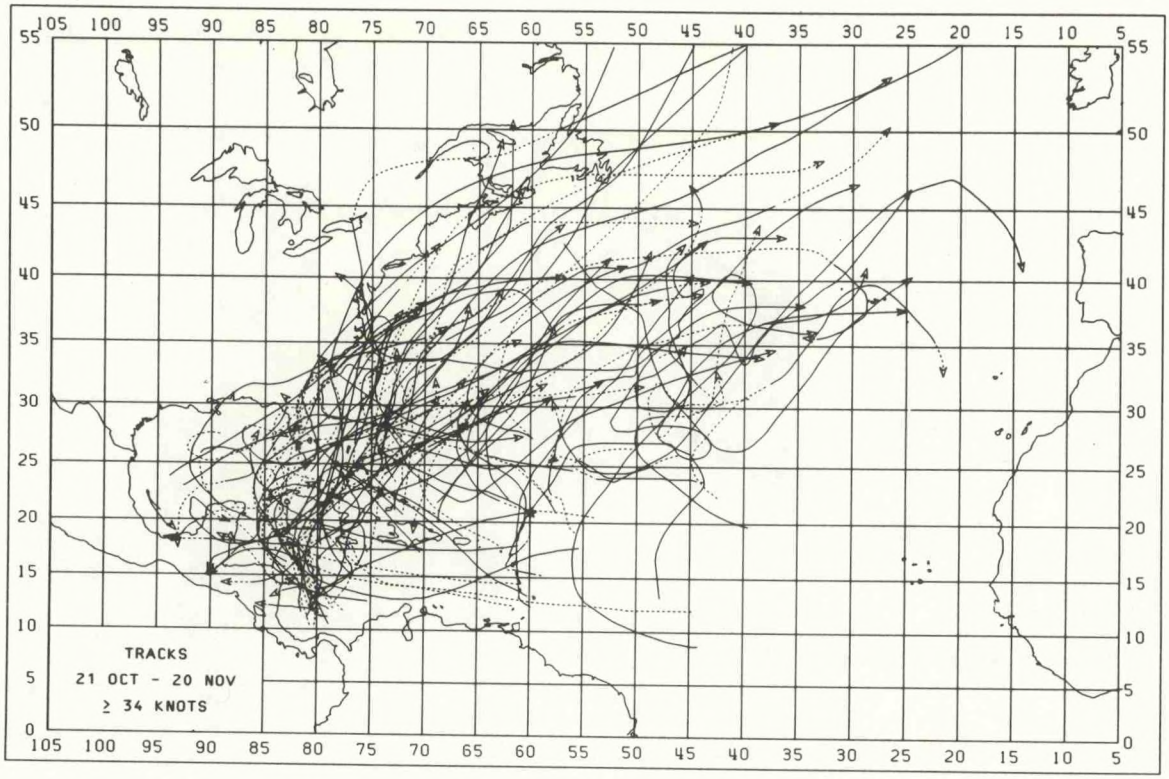
| 119 | 9 | 001 | 4 | 7 | 2.55 |
| 153 | 11 | 294 | 4 | 7 | 2.95 |
| 154 | 21 | 325 | 6 | 7 | 2.55 |
| 155 | 8 | 314 | 9 | 10 | 3.54 |
| 156 | 9 | 314 | 6 | 8 | 4.37 |
| 188 | 7 | 283 | 5 | 9 | 3.06 |
| 189 | 19 | 350 | 4 | 9 | 3.86 |
| 190 | 20 | 010 | 4 | 7 | 3.06 |
| 191 | 13 | 029 | 5 | 9 | 4.76 |
| 192 | 10 | 012 | 6 | 9 | 6.85 |
| 222 | 7 | 343 | 7 | 9 | 2.04 |
| 223 | 6 | 305 | 7 | 8 | 1.78 |
| 224 | 6 | 327 | 7 | 9 | 4.77 |
| 225 | 16 | 000 | 7 | 8 | 4.10 |
| 226 | 13 | 007 | 3 | 8 | 3.71 |
| 227 | 14 | 028 | 8 | 11 | 3.88 |
| 228 | 9 | 022 | 10 | 12 | 7.74 |
| 229 | 11 | 353 | 9 | 13 | 6.09 |
| 230 | 6 | 319 | 12 | 14 | 4.38 |
| 231 | 7 | 337 | 10 | 13 | 4.10 |
| 257 | 6 | 015 | 6 | 11 | 4.69 |
| 258 | 8 | 019 | 7 | 11 | 4.58 |
| 260 | 6 | 002 | 3 | 8 | 3.85 |
| 261 | 14 | 016 | 9 | 10 | 3.16 |
| 262 | 10 | 030 | 8 | 12 | 3.54 |
| 263 | 13 | 011 | 7 | 12 | 4.29 |
| 264 | 17 | 016 | 8 | 12 | 4.32 |
| 265 | 14 | 022 | 10 | 14 | 5.44 |
| 266 | 7 | 035 | 10 | 13 | 6.05 |
| 267 | 6 | 022 | 9 | 13 | 2.89 |
| 269 | 7 | 358 | 10 | 16 | 5.52 |
| 294 | 8 | 031 | 8 | 13 | 7.42 |
| 295 | 10 | 036 | 9 | 15 | 7.46 |
| 296 | 9 | 024 | 5 | 10 | 6.48 |
| 297 | 9 | 007 | 7 | 9 | 3.53 |
| 298 | 13 | 030 | 8 | 12 | 4.23 |
| 299 | 14 | 035 | 8 | 14 | 5.91 |
| 300 | 15 | 028 | 9 | 14 | 7.88 |
| 301 | 16 | 025 | 9 | 16 | 7.59 |
| 302 | 15 | 035 | 10 | 15 | 6.49 |
| 303 | 13 | 028 | 12 | 16 | 7.10 |
| 304 | 10 | 354 | 8 | 14 | 5.35 |
| 305 | 7 | 005 | 5 | 11 | 4.21 |
| 306 | 6 | 028 | 10 | 15 | 5.85 |
| 307 | 5 | 016 | 10 | 13 | 7.23 |
| 308 | 6 | 331 | 6 | 10 | 3.02 |
| 312 | 6 | 052 | 5 | 12 | 8.40 |
| 330 | 6 | 349 | 8 | 14 | 5.54 |
| 333 | 8 | 045 | 15 | 16 | 12.10 |
| 334 | 10 | 014 | 7 | 13 | 4.65 |
| 335 | 8 | 028 | 9 | 12 | 5.99 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 336 | 15 | 045 | 9 | 15 | 7.48 |
| 337 | 19 | 050 | 12 | 17 | 7.12 |
| 338 | 18 | 053 | 13 | 18 | 7.89 |
| 339 | 15 | 044 | 13 | 18 | 7.30 |
| 340 | 15 | 043 | 15 | 17 | 7.23 |
| 341 | 9 | 057 | 14 | 16 | 6.47 |
| 342 | 7 | 018 | 9 | 12 | 3.89 |
| 343 | 5 | 028 | 11 | 14 | 4.30 |
| 344 | 6 | 032 | 15 | 18 | 4.95 |
| 348 | 6 | 002 | 8 | 19 | 9.80 |
| 349 | 8 | 004 | 7 | 17 | 11.48 |
| 367 | 6 | 023 | 13 | 14 | 6.67 |
| 368 | 5 | 028 | 11 | 15 | 5.86 |
| 370 | 10 | 041 | 12 | 17 | 11.03 |
| 371 | 12 | 008 | 10 | 16 | 9.89 |
| 372 | 15 | 349 | 5 | 12 | 5.88 |
| 373 | 16 | 354 | 6 | 11 | 3.19 |
| 374 | 11 | 028 | 12 | 15 | 7.51 |
| 375 | 8 | 035 | 18 | 20 | 5.26 |
| 376 | 11 | 054 | 16 | 22 | 8.60 |
| 377 | 14 | 045 | 18 | 22 | 7.64 |
| 378 | 12 | 053 | 18 | 20 | 8.01 |
| 379 | 9 | 054 | 17 | 19 | 6.43 |
| 380 | 6 | 050 | 15 | 18 | 6.28 |
| 383 | 6 | 094 | 9 | 15 | 11.74 |
| 384 | 8 | 040 | 11 | 18 | 11.75 |
| 385 | 6 | 010 | 12 | 16 | 9.65 |
| 386 | 6 | 030 | 9 | 13 | 10.46 |
| 407 | 13 | 030 | 18 | 21 | 9.83 |
| 408 | 11 | 044 | 15 | 17 | 9.76 |
| 409 | 10 | 034 | 8 | 14 | 6.71 |
| 410 | 15 | 028 | 10 | 15 | 7.37 |
| 411 | 13 | 026 | 12 | 17 | 8.01 |
| 412 | 7 | 013 | 10 | 16 | 6.38 |
| 413 | 14 | 021 | 15 | 18 | 8.10 |
| 414 | 12 | 038 | 15 | 19 | 9.38 |
| 415 | 9 | 053 | 19 | 20 | 7.46 |
| 416 | 6 | 054 | 18 | 20 | 5.40 |
| 417 | 6 | 062 | 22 | 23 | 8.04 |
| 418 | 5 | 054 | 19 | 20 | 10.62 |
| 419 | 7 | 085 | 5 | 11 | 6.94 |
| 420 | 8 | 007 | 10 | 13 | 7.48 |
| 422 | 5 | 060 | 20 | 22 | 14.77 |
| 443 | 5 | 026 | 25 | 27 | 10.52 |
| 444 | 7 | 030 | 20 | 22 | 12.71 |
| 445 | 7 | 043 | 20 | 21 | 10.96 |
| 446 | 9 | 050 | 16 | 19 | 6.66 |
| 447 | 11 | 038 | 20 | 22 | 7.57 |
| 448 | 11 | 043 | 16 | 19 | 4.90 |
| 449 | 12 | 038 | 21 | 24 | 11.48 |
| 450 | 10 | 039 | 24 | 25 | 10.38 |
| 451 | 8 | 052 | 20 | 22 | 10.44 |
| 452 | 10 | 048 | 20 | 21 | 9.43 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 455 | 8 | 055 | 18 | 24 | 9.27 |
| 456 | 8 | 048 | 18 | 21 | 12.30 |
| 458 | 6 | 066 | 23 | 24 | 12.88 |
| 459 | 8 | 059 | 23 | 24 | 10.31 |
| 460 | 6 | 060 | 20 | 22 | 8.03 |
| 483 | 11 | 032 | 23 | 26 | 7.63 |
| 484 | 7 | 037 | 23 | 25 | 7.64 |
| 485 | 8 | 043 | 24 | 26 | 8.53 |
| 486 | 14 | 045 | 25 | 26 | 10.53 |
| 487 | 13 | 050 | 27 | 28 | 10.68 |
| 488 | 7 | 054 | 26 | 27 | 11.31 |
| 489 | 9 | 060 | 21 | 23 | 12.86 |
| 490 | 7 | 064 | 18 | 19 | 13.09 |
| 491 | 8 | 046 | 20 | 22 | 10.47 |
| 492 | 9 | 038 | 20 | 22 | 11.55 |
| 493 | 5 | 054 | 23 | 24 | 14.53 |
| 496 | 6 | 055 | 23 | 24 | 8.55 |
| 499 | 6 | 071 | 16 | 20 | 6.81 |
| 519 | 6 | 031 | 24 | 27 | 11.65 |
| 520 | 8 | 037 | 25 | 27 | 9.11 |
| 521 | 7 | 040 | 25 | 26 | 10.41 |
| 522 | 6 | 042 | 27 | 29 | 14.01 |
| 523 | 8 | 044 | 36 | 37 | 9.66 |
| 524 | 10 | 056 | 28 | 31 | 13.58 |
| 525 | 10 | 062 | 28 | 30 | 11.75 |
| 526 | 7 | 066 | 33 | 34 | 11.87 |
| 527 | 8 | 061 | 34 | 35 | 14.10 |
| 528 | 10 | 049 | 23 | 25 | 11.01 |
| 529 | 7 | 054 | 22 | 23 | 6.90 |
| 558 | 6 | 028 | 20 | 20 | 9.20 |
| 560 | 5 | 038 | 43 | 45 | 18.41 |
| 562 | 6 | 053 | 31 | 31 | 9.96 |
| 564 | 6 | 060 | 33 | 34 | 14.27 |
| 565 | 6 | 059 | 26 | 27 | 11.25 |
| 566 | 6 | 060 | 22 | 24 | 10.45 |
| 594 | 6 | 034 | 21 | 23 | 7.63 |
| 631 | 5 | 052 | 26 | 27 | 7.78 |

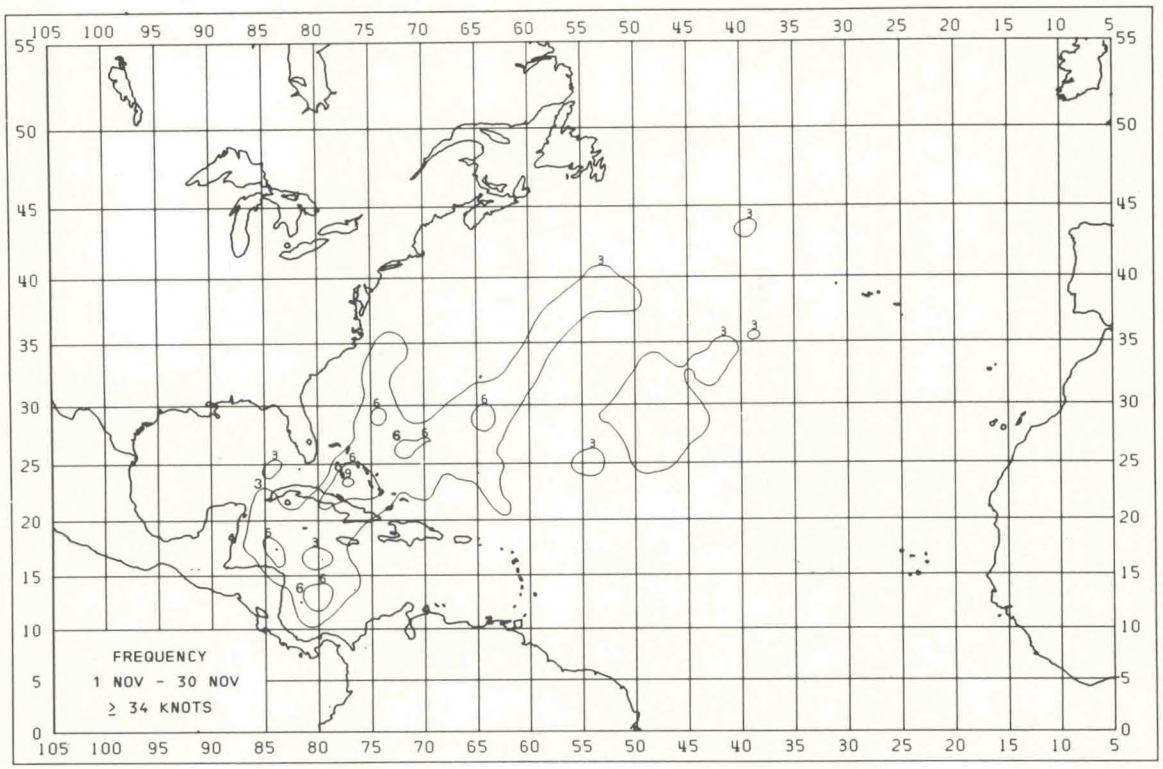





| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 82 | 6 | 328 | 4 | 5 | 1.36 |
| 118 | 12 | 321 | 5 | 6 | 3.05 |
| 119 | 9 | 336 | 4 | 6 | 2.87 |
| 153 | 9 | 303 | 8 | 10 | 3.62 |
| 154 | 10 | 318 | 5 | 7 | 2.25 |
| 188 | 6 | 278 | 6 | 8 | 2.81 |
| 189 | 9 | 308 | 3 | 9 | 3.43 |
| 190 | 9 | 008 | 2 | 7 | 2.66 |
| 191 | 8 | 332 | 3 | 6 | 3.43 |
| 192 | 7 | 346 | 3 | 6 | 2.05 |
| 226 | 7 | 355 | 2 | 9 | 3.82 |
| 227 | 6 | 023 | 7 | 12 | 4.08 |
| 228 | 6 | 017 | 6 | 9 | 6.37 |
| 229 | 6 | 333 | 10 | 12 | 4.81 |
| 263 | 7 | 013 | 7 | 12 | 4.19 |
| 264 | 10 | 009 | 7 | 12 | 4.90 |
| 265 | 9 | 019 | 9 | 12 | 3.85 |
| 296 | 5 | 035 | 6 | 9 | 8.25 |
| 299 | 6 | 021 | 7 | 14 | 3.78 |
| 300 | 8 | 039 | 11 | 14 | 8.42 |
| 301 | 10 | 032 | 11 | 13 | 6.70 |
| 302 | 10 | 047 | 11 | 16 | 6.17 |
| 303 | 7 | 043 | 10 | 16 | 5.98 |
| 304 | 9 | 002 | 8 | 14 | 4.22 |
| 336 | 6 | 081 | 5 | 13 | 6.58 |
| 337 | 13 | 040 | 9 | 15 | 5.43 |
| 338 | 9 | 044 | 13 | 17 | 5.77 |
| 339 | 6 | 040 | 12 | 16 | 3.09 |
| 340 | 10 | 044 | 13 | 15 | 5.89 |
| 341 | 8 | 041 | 12 | 14 | 7.10 |
| 347 | 5 | 017 | 3 | 12 | 4.50 |
| 348 | 5 | 013 | 8 | 20 | 9.85 |
| 371 | 5 | 029 | 11 | 15 | 13.38 |
| 372 | 5 | 312 | 5 | 11 | 4.42 |
| 373 | 7 | 352 | 7 | 11 | 4.20 |
| 377 | 6 | 046 | 18 | 18 | 5.49 |
| 378 | 7 | 050 | 17 | 18 | 5.85 |
| 384 | 6 | 062 | 16 | 20 | 14.41 |
| 407 | 7 | 033 | 17 | 21 | 11.01 |
| 408 | 5 | 055 | 18 | 20 | 14.58 |
| 409 | 6 | 023 | 7 | 13 | 6.49 |
| 410 | 5 | 016 | 9 | 13 | 4.58 |
| 413 | 5 | 046 | 16 | 19 | 8.85 |
| 414 | 8 | 048 | 18 | 21 | 7.11 |
| 415 | 7 | 051 | 19 | 20 | 6.12 |
| 419 | 5 | 108 | 4 | 10 | 5.16 |
| 420 | 5 | 010 | 8 | 12 | 8.29 |
| 445 | 6 | 039 | 21 | 23 | 11.10 |
| 446 | 6 | 056 | 17 | 18 | 5.59 |
| 447 | 6 | 054 | 17 | 18 | 4.33 |
| 451 | 9 | 050 | 20 | 22 | 8.62 |
| 452 | 7 | 053 | 22 | 22 | 8.39 |
| 456 | 5 | 027 | 12 | 14 | 8.76 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 459 | 5 | 067 | 20 | 22 | 11.44 |
| 489 | 8 | 060 | 18 | 20 | 10.30 |
| 490 | 5 | 076 | 12 | 13 | 6.06 |
| 499 | 6 | 071 | 16 | 20 | 6.81 |
| 528 | 5 | 052 | 21 | 22 | 13.61 |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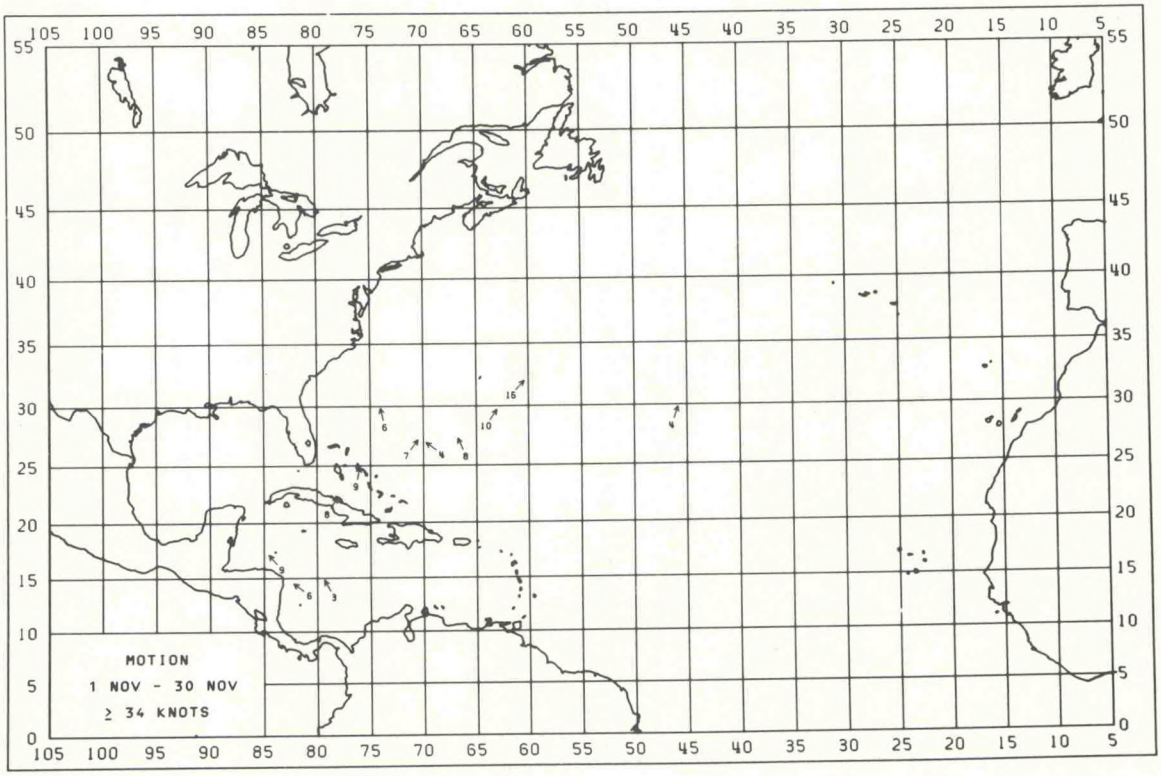
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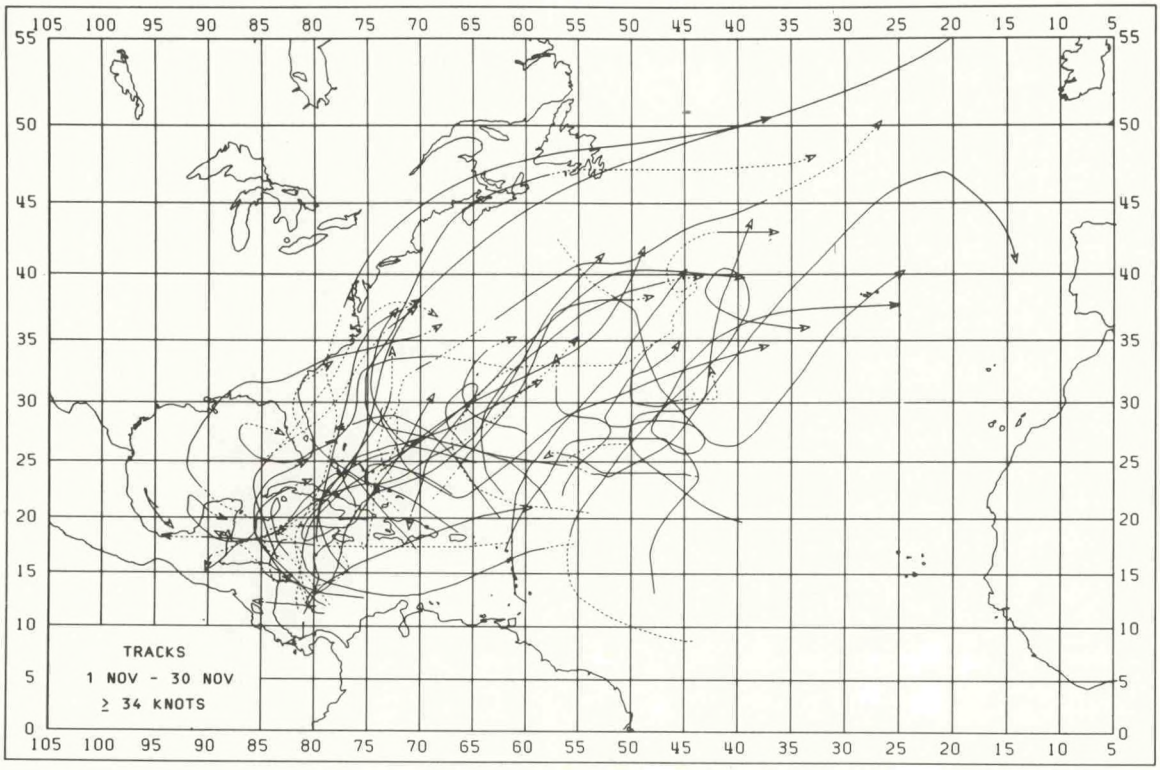
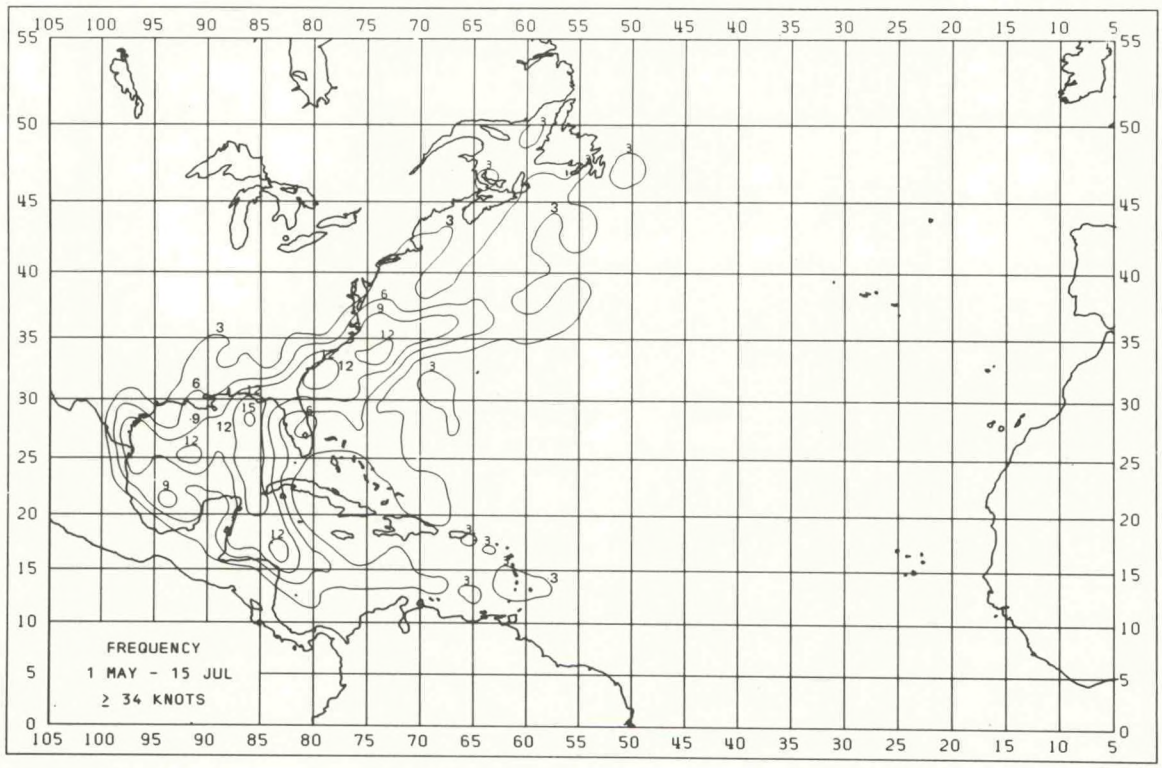



| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 118 | 6 | 307 | 6 | 6 | 3.83 |
| 119 | 6 | 332 | 3 | 6 | 2.05 |
| 153 | 6 | 319 | 9 | 11 | 3.94 |
| 227 | 6 | 030 | 8 | 14 | 3.11 |
| 264 | 9 | 011 | 9 | 14 | 5.32 |
| 302 | 6 | 036 | 7 | 14 | 5.42 |
| 303 | 6 | 307 | 4 | 14 | 4.46 |
| 304 | 6 | 337 | 8 | 14 | 4.63 |
| 337 | 6 | 347 | 6 | 14 | 5.73 |
| 341 | 6 | 033 | 10 | 13 | 6.65 |
| 348 | 5 | 018 | 4 | 19 | 11.70 |
| 378 | 5 | 043 | 16 | 17 | 5.49 |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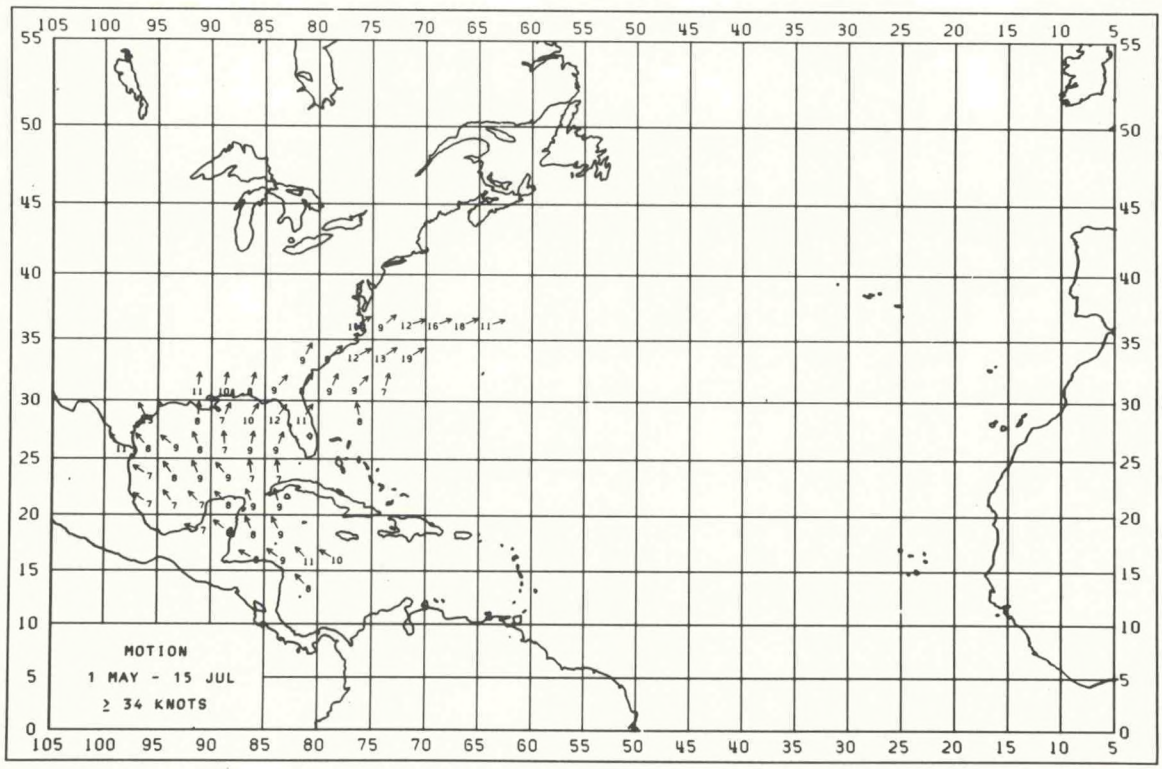
MOTION
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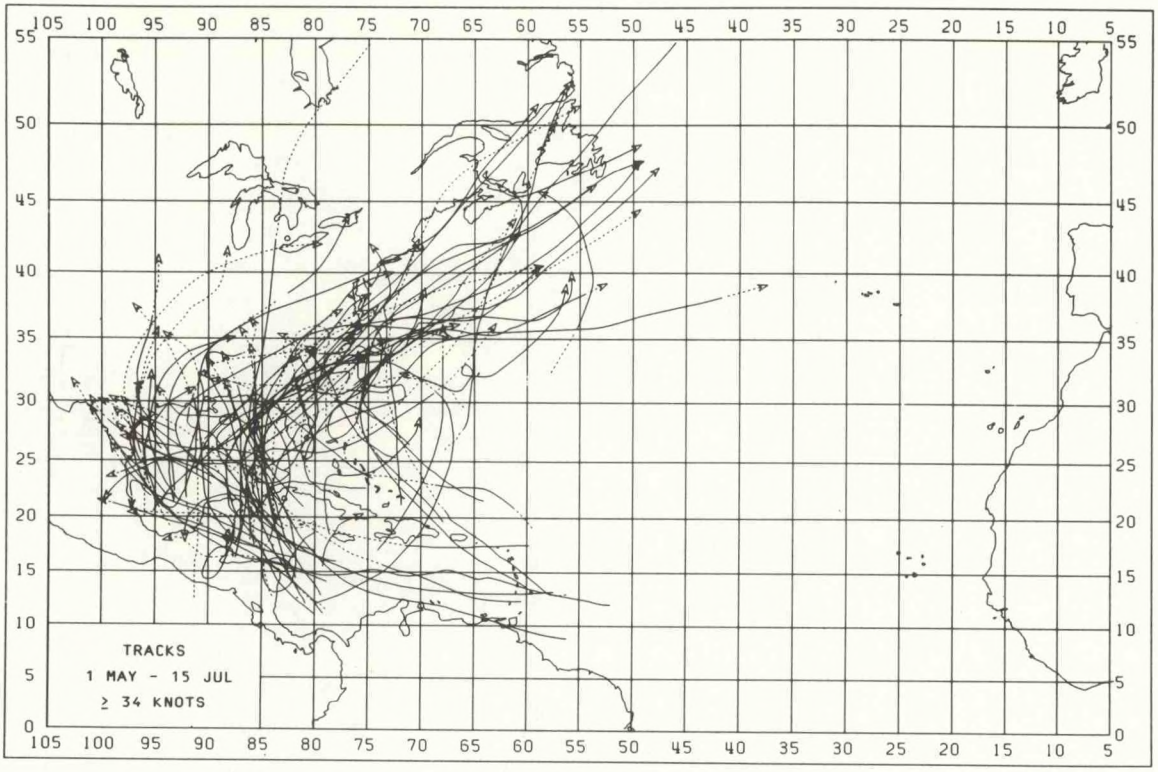
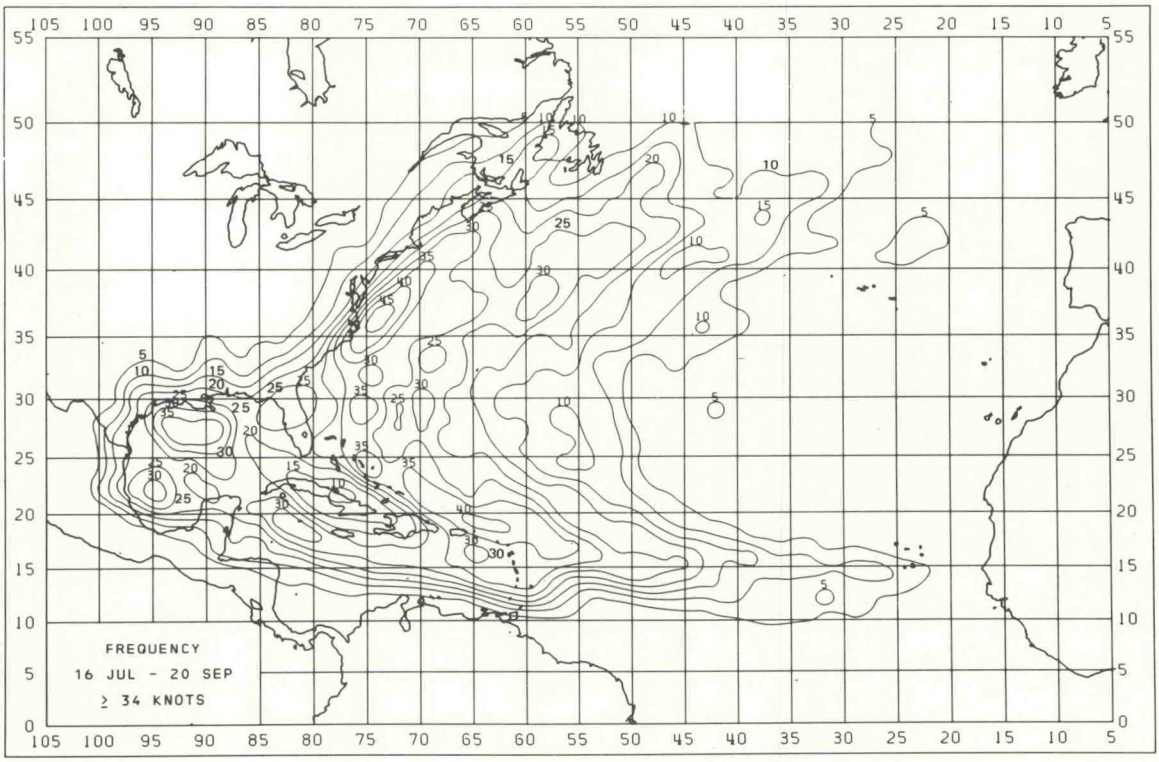
≥ 34 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 118 | 7 | 317 | 8 | 9 | 4.52 |
| 152 | 6 | 298 | 8 | 10 | 2.95 |
| 153 | 12 | 306 | 9 | 10 | 3.01 |
| 154 | 8 | 316 | 11 | 12 | 3.77 |
| 155 | 6 | 301 | 10 | 11 | 4.75 |
| 186 | 5 | 288 | 7 | 8 | 3.08 |
| 187 | 7 | 309 | 8 | 9 | 2.58 |
| 188 | 10 | 335 | 8 | 9 | 2.58 |
| 189 | 10 | 332 | 9 | 10 | 3.24 |
| 220 | 5 | 307 | 7 | 8 | 3.05 |
| 221 | 10 | 326 | 7 | 9 | 3.97 |
| 222 | 7 | 317 | 7 | 10 | 5.04 |
| 223 | 6 | 316 | 8 | 9 | 1.56 |
| 224 | 12 | 338 | 9 | 11 | 2.52 |
| 225 | 11 | 345 | 9 | 10 | 3.43 |
| 256 | 9 | 304 | 7 | 9 | 3.21 |
| 257 | 6 | 326 | 8 | 10 | 3.72 |
| 258 | 10 | 336 | 9 | 11 | 4.84 |
| 259 | 7 | 321 | 9 | 10 | 4.21 |
| 260 | 13 | 351 | 7 | 9 | 4.05 |
| 261 | 9 | 353 | 7 | 8 | 2.80 |
| 291 | 6 | 323 | 11 | 11 | 3.79 |
| 292 | 12 | 321 | 8 | 9 | 4.47 |
| 293 | 10 | 309 | 9 | 11 | 3.10 |
| 294 | 11 | 338 | 8 | 11 | 4.27 |
| 295 | 9 | 355 | 7 | 11 | 3.96 |
| 296 | 14 | 009 | 9 | 11 | 7.31 |
| 297 | 9 | 020 | 9 | 13 | 8.67 |
| 328 | 6 | 334 | 13 | 14 | 3.61 |
| 330 | 7 | 003 | 8 | 10 | 3.51 |
| 331 | 8 | 022 | 7 | 11 | 3.18 |
| 332 | 16 | 029 | 10 | 12 | 6.61 |
| 333 | 8 | 036 | 12 | 16 | 6.57 |
| 334 | 6 | 032 | 11 | 13 | 8.22 |
| 336 | 7 | 349 | 8 | 10 | 3.68 |
| 366 | 6 | 006 | 11 | 13 | 4.36 |
| 367 | 5 | 010 | 10 | 13 | 6.40 |
| 368 | 9 | 014 | 8 | 10 | 5.88 |
| 369 | 10 | 039 | 9 | 15 | 6.38 |
| 370 | 11 | 030 | 8 | 14 | 4.93 |
| 371 | 13 | 023 | 9 | 14 | 8.45 |
| 372 | 9 | 042 | 9 | 14 | 9.75 |
| 373 | 6 | 013 | 7 | 14 | 5.31 |
| 406 | 7 | 026 | 9 | 14 | 8.55 |
| 407 | 10 | 046 | 8 | 11 | 5.04 |
| 408 | 12 | 062 | 12 | 14 | 9.39 |
| 409 | 13 | 056 | 13 | 16 | 11.23 |
| 410 | 7 | 058 | 19 | 20 | 14.25 |
| 444 | 7 | 059 | 11 | 14 | 4.53 |
| 445 | 10 | 049 | 9 | 12 | 4.54 |
| 446 | 9 | 073 | 12 | 12 | 7.53 |
| 447 | 11 | 069 | 16 | 17 | 14.92 |
| 448 | 10 | 067 | 18 | 19 | 14.67 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 449 | 7 | 073 | 11 | 13 | 4.11 |


FREQUENCY
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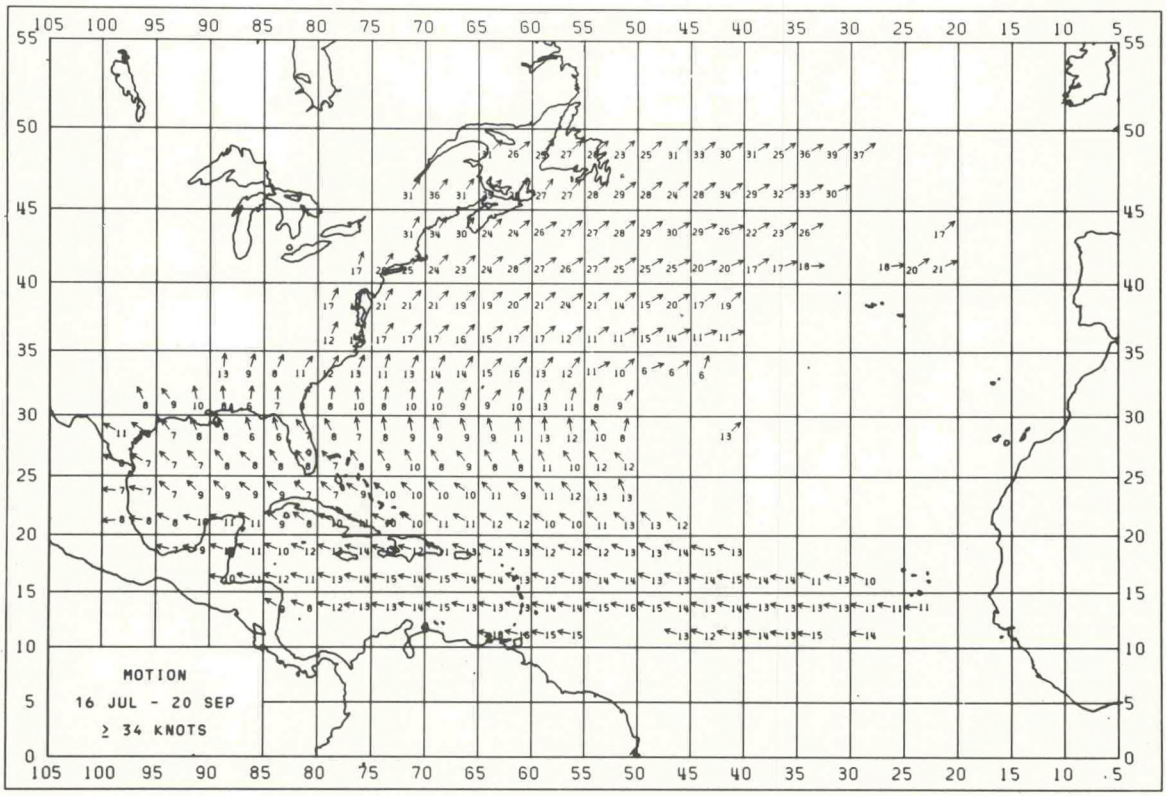
MOTION
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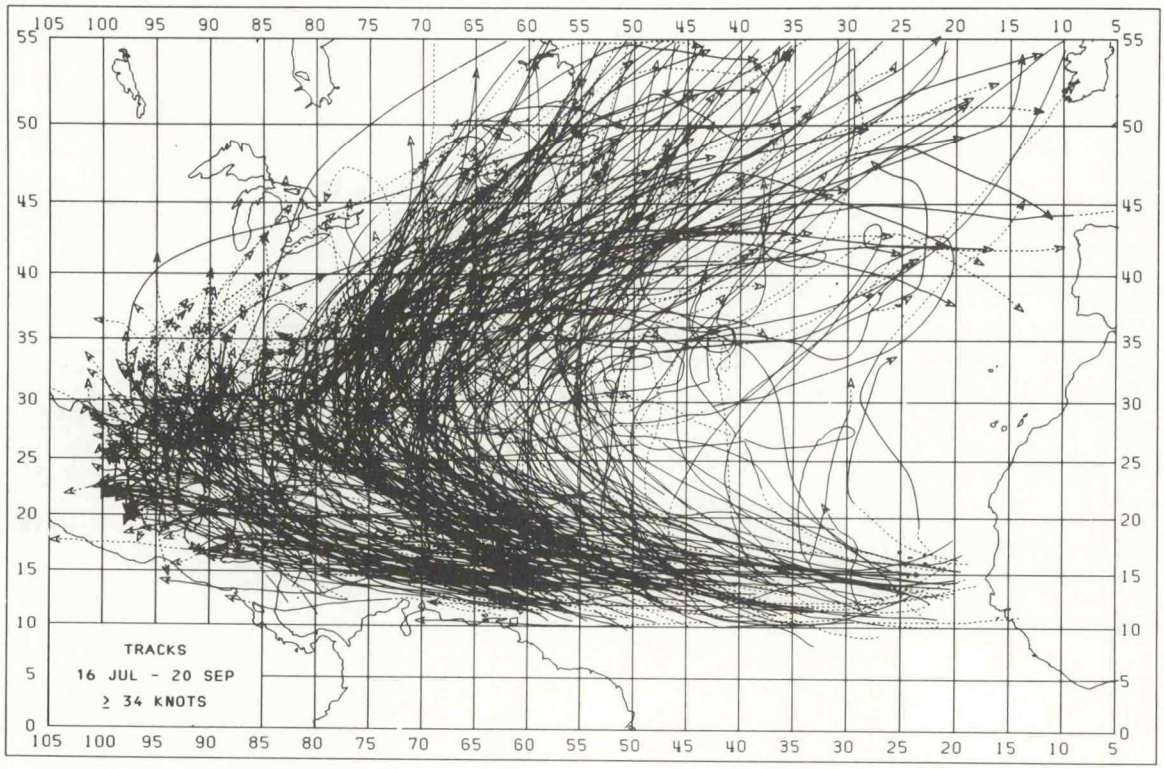
≥ 34 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 89 | 5 | 279 | 18 | 18 | 4.90 |
| 90 | 11 | 283 | 16 | 17 | 4.73 |
| 91 | 13 | 280 | 15 | 16 | 4.94 |
| 92 | 9 | 282 | 15 | 15 | 5.46 |
| 96 | 6 | 289 | 13 | 14 | 2.96 |
| 97 | 6 | 288 | 12 | 12 | 3.58 |
| 98 | 8 | 282 | 13 | 13 | 3.97 |
| 99 | 9 | 281 | 14 | 14 | 3.47 |
| 100 | 10 | 280 | 13 | 14 | 4.27 |
| 101 | 7 | 276 | 15 | 15 | 4.54 |
| 103 | 7 | 276 | 14 | 15 | 4.85 |
| 117 | 5 | 302 | 9 | 10 | 1.52 |
| 118 | 6 | 292 | 8 | 10 | 2.83 |
| 119 | 7 | 283 | 12 | 12 | 4.51 |
| 120 | 10 | 276 | 13 | 13 | 4.91 |
| 121 | 14 | 280 | 13 | 13 | 4.75 |
| 122 | 16 | 281 | 14 | 14 | 5.38 |
| 123 | 19 | 281 | 15 | 15 | 4.98 |
| 124 | 24 | 284 | 13 | 13 | 5.06 |
| 125 | 32 | 284 | 13 | 14 | 4.01 |
| 126 | 32 | 284 | 13 | 13 | 4.22 |
| 127 | 27 | 284 | 14 | 15 | 4.87 |
| 128 | 18 | 283 | 14 | 15 | 4.23 |
| 129 | 18 | 281 | 15 | 16 | 4.41 |
| 130 | 24 | 282 | 16 | 17 | 4.30 |
| 131 | 24 | 285 | 15 | 15 | 4.51 |
| 132 | 21 | 284 | 14 | 15 | 3.96 |
| 133 | 18 | 285 | 13 | 14 | 3.55 |
| 134 | 15 | 285 | 14 | 14 | 3.08 |
| 135 | 9 | 274 | 13 | 13 | 4.01 |
| 136 | 9 | 281 | 13 | 14 | 2.42 |
| 137 | 9 | 279 | 13 | 14 | 3.55 |
| 138 | 9 | 280 | 13 | 13 | 4.45 |
| 139 | 10 | 281 | 11 | 12 | 4.54 |
| 140 | 9 | 282 | 11 | 12 | 3.62 |
| 141 | 8 | 270 | 11 | 12 | 4.67 |
| 151 | 10 | 279 | 10 | 11 | 4.85 |
| 152 | 13 | 286 | 11 | 12 | 4.73 |
| 153 | 14 | 285 | 12 | 12 | 4.13 |
| 154 | 18 | 286 | 11 | 12 | 4.17 |
| 155 | 23 | 286 | 13 | 13 | 5.24 |
| 156 | 25 | 283 | 14 | 15 | 5.10 |
| 157 | 27 | 281 | 15 | 15 | 4.92 |
| 158 | 27 | 280 | 14 | 14 | 5.02 |
| 159 | 28 | 281 | 15 | 15 | 5.25 |
| 160 | 30 | 284 | 14 | 14 | 4.84 |
| 161 | 29 | 286 | 14 | 14 | 4.12 |
| 162 | 31 | 289 | 13 | 13 | 4.40 |
| 163 | 35 | 288 | 12 | 12 | 4.30 |
| 164 | 36 | 288 | 13 | 14 | 5.94 |
| 165 | 31 | 288 | 14 | 15 | 5.72 |
| 166 | 25 | 288 | 14 | 15 | 5.30 |
| 167 | 24 | 289 | 13 | 14 | 4.47 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 168 | 23 | 288 | 13 | 13 | 4.07 |
| 169 | 20 | 283 | 14 | 14 | 4.40 |
| 170 | 16 | 282 | 15 | 15 | 6.17 |
| 171 | 15 | 284 | 14 | 14 | 6.77 |
| 172 | 8 | 280 | 14 | 14 | 4.59 |
| 173 | 10 | 291 | 11 | 13 | 4.37 |
| 174 | 5 | 281 | 13 | 14 | 4.30 |
| 175 | 7 | 291 | 10 | 11 | 4.22 |
| 185 | 9 | 284 | 7 | 8 | 3.80 |
| 186 | 9 | 282 | 9 | 10 | 3.64 |
| 187 | 13 | 288 | 10 | 11 | 3.55 |
| 188 | 18 | 289 | 11 | 11 | 3.29 |
| 189 | 27 | 292 | 10 | 11 | 3.88 |
| 190 | 35 | 291 | 12 | 12 | 3.69 |
| 191 | 23 | 288 | 13 | 13 | 4.86 |
| 192 | 19 | 287 | 14 | 14 | 3.73 |
| 193 | 18 | 285 | 13 | 13 | 3.06 |
| 194 | 15 | 285 | 12 | 12 | 2.68 |
| 195 | 28 | 293 | 11 | 12 | 3.16 |
| 196 | 36 | 292 | 13 | 13 | 3.01 |
| 197 | 42 | 292 | 12 | 13 | 3.47 |
| 198 | 40 | 295 | 13 | 13 | 4.23 |
| 199 | 40 | 295 | 12 | 13 | 4.32 |
| 200 | 28 | 290 | 12 | 13 | 3.00 |
| 201 | 22 | 293 | 12 | 13 | 3.87 |
| 202 | 19 | 293 | 13 | 14 | 4.72 |
| 203 | 19 | 300 | 13 | 14 | 4.90 |
| 204 | 11 | 292 | 14 | 14 | 7.06 |
| 205 | 7 | 288 | 15 | 16 | 4.89 |
| 206 | 6 | 290 | 13 | 14 | 2.75 |
| 219 | 12 | 266 | 8 | 9 | 5.13 |
| 220 | 24 | 278 | 8 | 9 | 4.12 |
| 221 | 30 | 297 | 8 | 10 | 3.72 |
| 222 | 21 | 288 | 10 | 11 | 3.20 |
| 223 | 20 | 291 | 11 | 12 | 3.11 |
| 224 | 24 | 301 | 11 | 11 | 3.57 |
| 225 | 26 | 311 | 9 | 11 | 3.64 |
| 226 | 16 | 306 | 8 | 10 | 3.55 |
| 227 | 10 | 297 | 10 | 11 | 2.19 |
| 228 | 10 | 292 | 11 | 11 | 3.63 |
| 229 | 16 | 296 | 10 | 11 | 3.36 |
| 230 | 30 | 302 | 10 | 11 | 3.85 |
| 231 | 40 | 303 | 11 | 12 | 4.26 |
| 232 | 37 | 299 | 11 | 12 | 4.76 |
| 233 | 32 | 303 | 12 | 13 | 4.97 |
| 234 | 35 | 302 | 12 | 12 | 4.50 |
| 235 | 28 | 300 | 10 | 11 | 4.53 |
| 236 | 22 | 302 | 10 | 11 | 3.66 |
| 237 | 19 | 311 | 11 | 12 | 4.98 |
| 238 | 13 | 310 | 13 | 14 | 5.42 |
| 239 | 9 | 311 | 13 | 13 | 3.73 |
| 240 | 6 | 309 | 12 | 14 | 5.01 |
| 255 | 14 | 275 | 7 | 9 | 3.82 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 256 | 24 | 284 | 7 | 9 | 2.42 |
| 257 | 25 | 312 | 7 | 10 | 4.47 |
| 258 | 20 | 316 | 9 | 11 | 4.51 |
| 259 | 27 | 316 | 9 | 11 | 3.83 |
| 260 | 22 | 307 | 9 | 10 | 2.76 |
| 261 | 17 | 313 | 9 | 10 | 3.12 |
| 262 | 15 | 314 | 7 | 9 | 2.66 |
| 263 | 18 | 312 | 7 | 9 | 2.79 |
| 264 | 26 | 303 | 9 | 10 | 3.40 |
| 265 | 35 | 307 | 10 | 11 | 3.56 |
| 266 | 35 | 310 | 10 | 11 | 3.98 |
| 267 | 31 | 312 | 10 | 11 | 4.42 |
| 268 | 28 | 307 | 10 | 11 | 4.83 |
| 269 | 28 | 313 | 11 | 12 | 4.15 |
| 270 | 22 | 310 | 9 | 10 | 3.58 |
| 271 | 15 | 312 | 11 | 11 | 5.06 |
| 272 | 11 | 316 | 12 | 13 | 3.25 |
| 273 | 10 | 322 | 13 | 15 | 5.85 |
| 274 | 10 | 337 | 13 | 15 | 5.46 |
| 291 | 15 | 294 | 8 | 8 | 3.00 |
| 292 | 23 | 299 | 7 | 9 | 3.46 |
| 293 | 29 | 312 | 7 | 9 | 3.91 |
| 294 | 35 | 318 | 7 | 9 | 3.55 |
| 295 | 33 | 322 | 8 | 10 | 3.53 |
| 296 | 18 | 312 | 8 | 10 | 3.54 |
| 297 | 22 | 326 | 8 | 10 | 3.32 |
| 298 | 23 | 322 | 8 | 11 | 3.11 |
| 299 | 28 | 318 | 7 | 9 | 3.45 |
| 300 | 32 | 325 | 8 | 10 | 4.18 |
| 301 | 29 | 330 | 9 | 10 | 3.51 |
| 302 | 30 | 330 | 10 | 12 | 5.48 |
| 303 | 26 | 328 | 8 | 10 | 3.86 |
| 304 | 24 | 322 | 9 | 10 | 4.36 |
| 305 | 22 | 328 | 8 | 11 | 4.37 |
| 306 | 14 | 335 | 8 | 11 | 3.65 |
| 307 | 14 | 333 | 11 | 14 | 4.92 |
| 308 | 12 | 325 | 10 | 13 | 4.32 |
| 309 | 10 | 322 | 12 | 14 | 7.04 |
| 310 | 11 | 314 | 12 | 14 | 4.34 |
| 327 | 9 | 298 | 11 | 11 | 3.31 |
| 328 | 21 | 304 | 8 | 10 | 4.16 |
| 329 | 34 | 323 | 7 | 9 | 4.04 |
| 330 | 31 | 335 | 8 | 10 | 4.63 |
| 331 | 32 | 337 | 8 | 11 | 4.26 |
| 332 | 25 | 343 | 6 | 10 | 5.01 |
| 333 | 28 | 344 | 6 | 10 | 4.44 |
| 334 | 27 | 323 | 7 | 10 | 3.91 |
| 335 | 21 | 333 | 8 | 10 | 4.04 |
| 336 | 37 | 351 | 7 | 10 | 4.65 |
| 337 | 34 | 352 | 8 | 11 | 4.46 |
| 338 | 27 | 350 | 9 | 12 | 4.07 |
| 339 | 31 | 344 | 9 | 12 | 4.18 |
| 340 | 23 | 343 | 9 | 11 | 4.75 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 341 | 20 | 345 | 9 | 12 | 4.06 |
| 342 | 13 | 357 | 11 | 14 | 4.90 |
| 343 | 13 | 000 | 13 | 16 | 7.50 |
| 344 | 9 | 351 | 12 | 15 | 8.35 |
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| 346 | 7 | 013 | 8 | 11 | 4.54 |
| 350 | 5 | 047 | 13 | 18 | 4.49 |
| 364 | 15 | 336 | 8 | 8 | 3.16 |
| 365 | 13 | 323 | 9 | 11 | 4.02 |
| 366 | 16 | 348 | 10 | 13 | 4.02 |
| 367 | 16 | 355 | 8 | 11 | 4.78 |
| 368 | 14 | 007 | 6 | 10 | 6.19 |
| 369 | 22 | 001 | 7 | 12 | 7.04 |
| 370 | 22 | 017 | 8 | 13 | 6.55 |
| 371 | 26 | 005 | 8 | 11 | 4.88 |
| 372 | 29 | 354 | 10 | 11 | 3.98 |
| 373 | 30 | 007 | 8 | 11 | 4.56 |
| 374 | 32 | 005 | 10 | 13 | 6.14 |
| 375 | 28 | 014 | 10 | 12 | 6.35 |
| 376 | 26 | 020 | 9 | 12 | 5.93 |
| 377 | 17 | 039 | 9 | 13 | 4.67 |
| 378 | 15 | 015 | 10 | 13 | 7.55 |
| 379 | 12 | 020 | 13 | 16 | 7.70 |
| 380 | 13 | 015 | 11 | 15 | 6.31 |
| 381 | 12 | 010 | 8 | 12 | 5.43 |
| 382 | 7 | 039 | 9 | 12 | 8.33 |
| 403 | 9 | 005 | 13 | 14 | 8.54 |
| 404 | 5 | 016 | 9 | 9 | 4.91 |
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| 406 | 14 | 035 | 11 | 14 | 8.20 |
| 407 | 25 | 030 | 12 | 15 | 7.39 |
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| 409 | 34 | 016 | 11 | 14 | 5.36 |
| 410 | 30 | 025 | 13 | 15 | 6.66 |
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| 412 | 27 | 033 | 14 | 15 | 7.03 |
| 413 | 21 | 045 | 15 | 18 | 7.47 |
| 414 | 21 | 037 | 16 | 17 | 7.00 |
| 415 | 16 | 037 | 13 | 15 | 7.66 |
| 416 | 20 | 039 | 12 | 14 | 5.49 |
| 417 | 11 | 063 | 11 | 13 | 5.73 |
| 418 | 9 | 046 | 10 | 13 | 7.06 |
| 419 | 6 | 069 | 6 | 10 | 4.47 |
| 420 | 7 | 056 | 6 | 10 | 4.56 |
| 421 | 7 | 018 | 6 | 8 | 4.31 |
| 443 | 11 | 024 | 12 | 15 | 5.44 |
| 444 | 29 | 031 | 15 | 17 | 8.53 |
| 445 | 48 | 036 | 17 | 19 | 7.12 |
| 446 | 34 | 042 | 17 | 19 | 8.02 |
| 447 | 36 | 047 | 17 | 19 | 7.04 |
| 448 | 33 | 043 | 16 | 18 | 6.89 |
| 449 | 28 | 050 | 15 | 17 | 8.27 |
| 450 | 29 | 049 | 17 | 18 | 9.33 |

| A | B | C | D | E | F |
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| 452 | 22 | 053 | 12 | 15 | 6.22 |
| 453 | 18 | 054 | 11 | 15 | 7.44 |
| 454 | 18 | 062 | 11 | 16 | 8.27 |
| 455 | 13 | 059 | 15 | 18 | 8.77 |
| 456 | 8 | 066 | 14 | 17 | 9.50 |
| 457 | 10 | 072 | 11 | 13 | 6.43 |
| 458 | 9 | 072 | 11 | 13 | 6.69 |
| 479 | 6 | 028 | 17 | 18 | 7.11 |
| 480 | 12 | 028 | 19 | 21 | 7.34 |
| 481 | 26 | 031 | 21 | 23 | 8.62 |
| 482 | 40 | 041 | 21 | 23 | 8.78 |
| 483 | 32 | 044 | 21 | 24 | 9.89 |
| 484 | 32 | 045 | 19 | 22 | 10.04 |
| 485 | 26 | 049 | 19 | 21 | 10.75 |
| 486 | 26 | 055 | 20 | 21 | 9.08 |
| 487 | 30 | 052 | 21 | 23 | 9.70 |
| 488 | 27 | 057 | 24 | 25 | 9.15 |
| 489 | 22 | 053 | 21 | 22 | 9.19 |
| 490 | 18 | 052 | 14 | 17 | 8.16 |
| 491 | 10 | 061 | 15 | 18 | 6.94 |
| 492 | 9 | 059 | 20 | 21 | 9.28 |
| 493 | 9 | 056 | 17 | 18 | 10.97 |
| 494 | 6 | 049 | 19 | 20 | 9.51 |
| 516 | 6 | 019 | 17 | 20 | 11.20 |
| 517 | 13 | 034 | 26 | 27 | 11.07 |
| 518 | 22 | 037 | 25 | 26 | 11.00 |
| 519 | 31 | 042 | 24 | 25 | 10.67 |
| 520 | 33 | 045 | 23 | 24 | 8.26 |
| 521 | 28 | 051 | 24 | 26 | 11.95 |
| 522 | 22 | 057 | 28 | 29 | 12.19 |
| 523 | 26 | 056 | 27 | 29 | 10.97 |
| 524 | 25 | 057 | 26 | 28 | 9.35 |
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| 527 | 22 | 060 | 25 | 26 | 8.81 |
| 528 | 12 | 065 | 25 | 26 | 7.11 |
| 529 | 9 | 070 | 20 | 22 | 9.38 |
| 530 | 9 | 068 | 20 | 21 | 7.61 |
| 531 | 12 | 057 | 17 | 20 | 6.26 |
| 532 | 7 | 070 | 17 | 20 | 7.19 |
| 533 | 5 | 088 | 18 | 20 | 8.35 |
| 536 | 6 | 084 | 18 | 20 | 11.81 |
| 537 | 7 | 056 | 20 | 25 | 12.68 |
| 538 | 5 | 066 | 21 | 27 | 11.63 |
| 554 | 11 | 031 | 31 | 32 | 10.45 |
| 555 | 15 | 033 | 34 | 35 | 14.56 |
| 556 | 22 | 037 | 30 | 31 | 12.18 |
| 557 | 28 | 044 | 24 | 25 | 9.20 |
| 558 | 21 | 052 | 24 | 26 | 8.86 |
| 559 | 17 | 059 | 26 | 28 | 9.26 |
| 560 | 22 | 052 | 27 | 30 | 8.10 |
| 561 | 20 | 054 | 27 | 28 | 8.17 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 562 | 25 | 052 | 28 | 30 | 10.09 |
| 563 | 20 | 056 | 29 | 31 | 11.12 |
| 564 | 20 | 061 | 30 | 32 | 8.63 |
| 565 | 17 | 068 | 29 | 31 | 9.82 |
| 566 | 13 | 074 | 26 | 27 | 10.65 |
| 567 | 15 | 062 | 22 | 24 | 10.80 |
| 568 | 14 | 060 | 23 | 25 | 10.89 |
| 569 | 7 | 063 | 26 | 28 | 8.92 |
| 574 | 5 | 049 | 17 | 25 | 13.90 |
| 590 | 6 | 034 | 31 | 34 | 7.18 |
| 591 | 9 | 039 | 36 | 38 | 12.58 |
| 592 | 15 | 037 | 31 | 33 | 13.67 |
| 593 | 15 | 042 | 29 | 30 | 14.61 |
| 594 | 18 | 040 | 28 | 28 | 10.83 |
| 595 | 13 | 036 | 27 | 29 | 8.34 |
| 596 | 10 | 041 | 27 | 30 | 9.22 |
| 597 | 12 | 050 | 28 | 31 | 9.30 |
| 598 | 18 | 054 | 29 | 30 | 7.89 |
| 599 | 22 | 052 | 28 | 30 | 9.44 |
| 600 | 17 | 052 | 24 | 26 | 9.91 |
| 601 | 11 | 055 | 28 | 30 | 9.73 |
| 602 | 12 | 058 | 34 | 35 | 8.24 |
| 603 | 11 | 062 | 29 | 31 | 14.36 |
| 604 | 10 | 063 | 32 | 34 | 14.68 |
| 605 | 12 | 064 | 33 | 34 | 7.55 |
| 606 | 9 | 067 | 30 | 32 | 5.88 |
| 629 | 6 | 046 | 31 | 33 | 8.82 |
| 630 | 9 | 053 | 26 | 28 | 15.86 |
| 631 | 17 | 040 | 25 | 27 | 12.34 |
| 632 | 14 | 049 | 27 | 29 | 8.81 |
| 633 | 9 | 049 | 28 | 30 | 8.08 |
| 634 | 10 | 047 | 23 | 26 | 5.39 |
| 635 | 10 | 049 | 25 | 28 | 7.70 |
| 636 | 15 | 044 | 31 | 33 | 10.87 |
| 637 | 11 | 053 | 33 | 35 | 8.37 |
| 638 | 10 | 057 | 30 | 32 | 7.45 |
| 639 | 8 | 058 | 31 | 32 | 6.46 |
| 640 | 8 | 056 | 25 | 26 | 10.67 |
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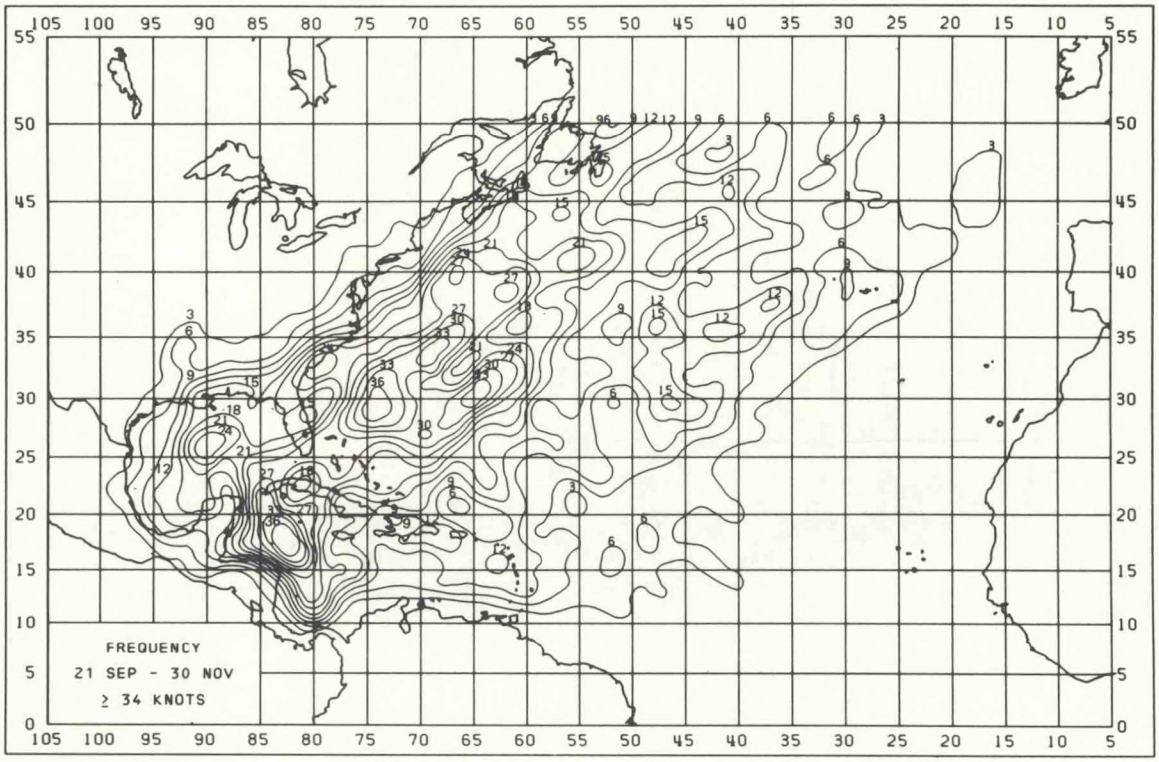
| 642 | 7 | 057 | 39 | 41 | 11.53 |
| 643 | 7 | 055 | 37 | 39 | 11.12 |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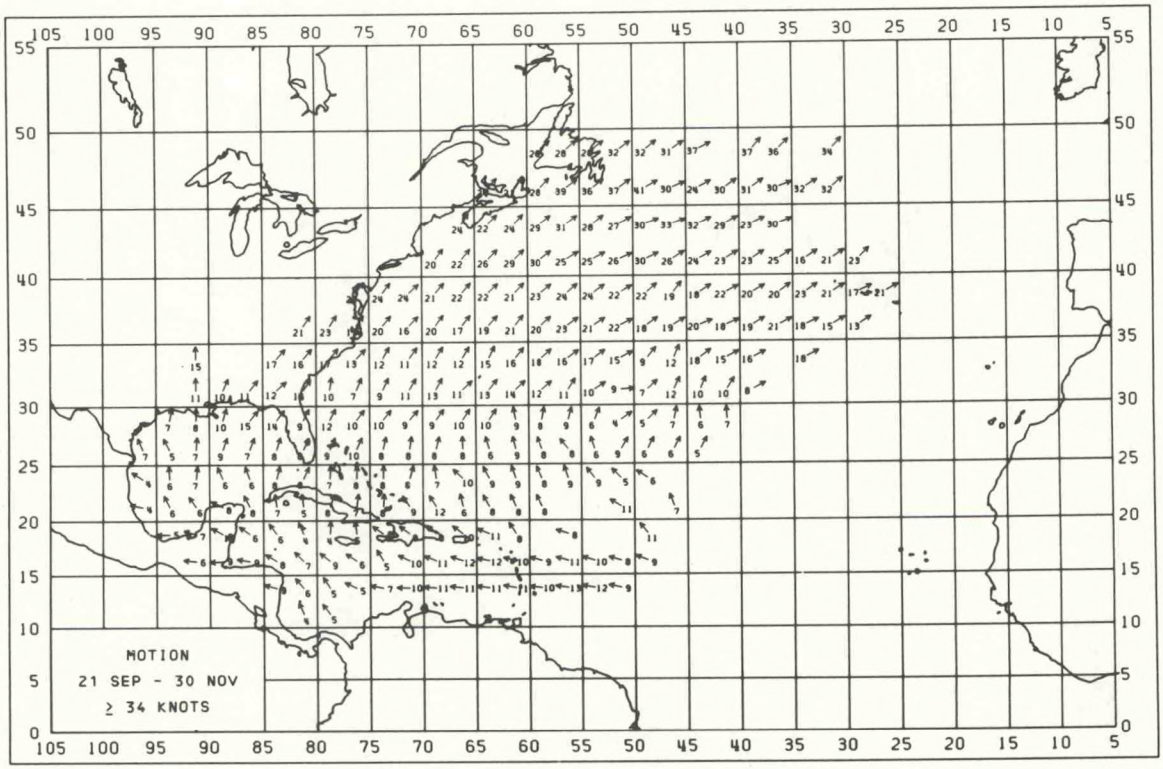
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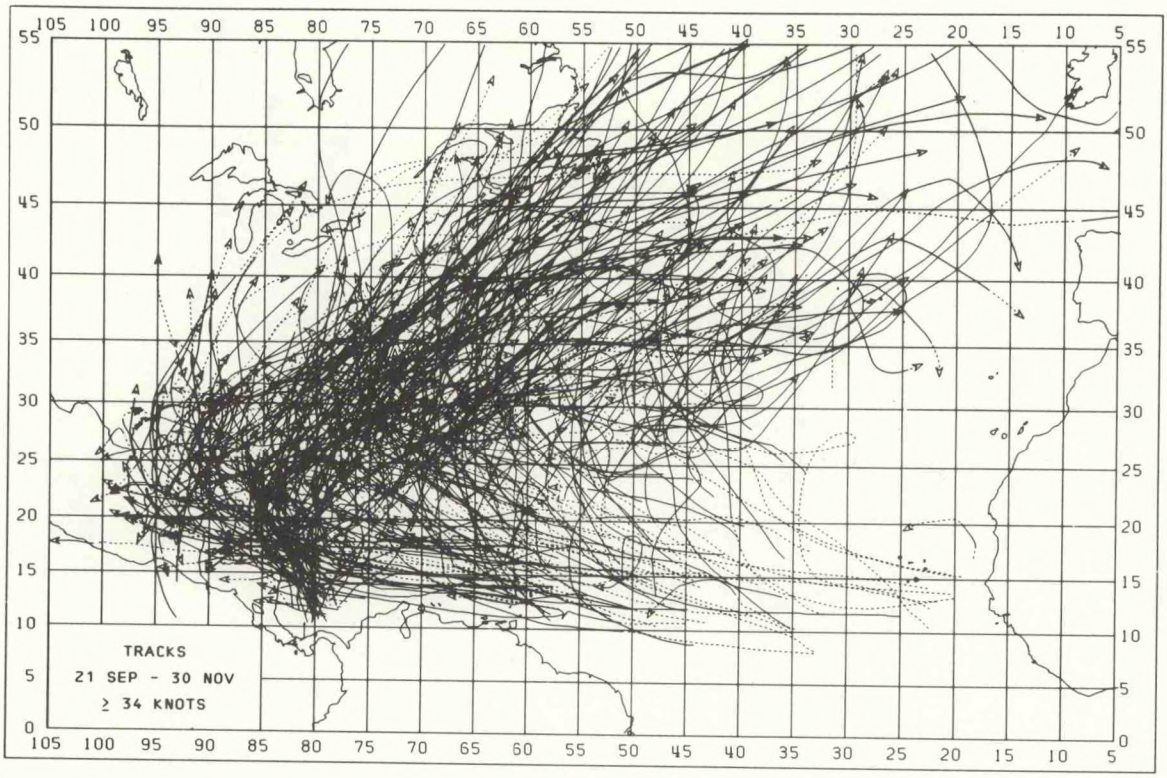


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| 83 | 12 | 325 | 5 | 6 | 4.01 |
| 117 | 7 | 286 | 9 | 9 | 4.83 |
| 118 | 23 | 320 | 6 | 7 | 3.99 |
| 119 | 18 | 328 | 5 | 8 | 3.43 |
| 120 | 11 | 295 | 5 | 8 | 2.02 |
| 121 | 7 | 281 | 7 | 9 | 3.38 |
| 122 | 6 | 272 | 10 | 10 | 2.52 |
| 123 | 9 | 274 | 11 | 11 | 2.54 |
| 124 | 10 | 276 | 11 | 12 | 1.62 |
| 125 | 11 | 277 | 11 | 12 | 3.15 |
| 126 | 10 | 280 | 11 | 11 | 4.03 |
| 127 | 8 | 276 | 10 | 13 | 4.82 |
| 128 | 7 | 279 | 13 | 13 | 4.87 |
| 129 | 7 | 279 | 12 | 12 | 3.81 |
| 130 | 5 | 282 | 9 | 10 | 4.04 |
| 150 | 6 | 276 | 6 | 10 | 3.64 |
| 151 | 11 | 266 | 9 | 10 | 2.51 |
| 152 | 15 | 279 | 9 | 10 | 3.48 |
| 153 | 27 | 302 | 8 | 9 | 4.31 |
| 154 | 36 | 316 | 7 | 8 | 3.55 |
| 155 | 16 | 309 | 9 | 11 | 4.33 |
| 156 | 16 | 305 | 6 | 10 | 5.28 |
| 157 | 7 | 330 | 5 | 12 | 3.30 |
| 158 | 8 | 295 | 10 | 13 | 3.30 |
| 159 | 8 | 292 | 11 | 12 | 3.49 |
| 160 | 10 | 288 | 12 | 13 | 2.56 |
| 161 | 12 | 281 | 12 | 12 | 3.80 |
| 162 | 11 | 284 | 10 | 13 | 5.14 |
| 163 | 9 | 285 | 9 | 10 | 3.17 |
| 164 | 6 | 286 | 11 | 11 | 4.29 |
| 165 | 5 | 287 | 10 | 11 | 4.16 |
| 166 | 7 | 287 | 8 | 9 | 4.21 |
| 167 | 6 | 293 | 9 | 13 | 4.00 |
| 185 | 12 | 269 | 5 | 9 | 4.40 |
| 186 | 10 | 288 | 7 | 8 | 4.95 |
| 187 | 10 | 300 | 10 | 11 | 4.38 |
| 188 | 21 | 306 | 6 | 9 | 4.02 |
| 189 | 36 | 324 | 6 | 10 | 4.24 |
| 190 | 27 | 339 | 4 | 8 | 4.11 |
| 191 | 19 | 003 | 4 | 8 | 4.08 |
| 192 | 14 | 352 | 5 | 9 | 5.79 |
| 193 | 11 | 307 | 8 | 10 | 3.48 |
| 194 | 11 | 307 | 9 | 13 | 2.87 |
| 195 | 13 | 311 | 8 | 12 | 3.16 |
| 196 | 10 | 307 | 10 | 14 | 3.72 |
| 197 | 7 | 293 | 11 | 12 | 4.24 |
| 198 | 10 | 329 | 8 | 12 | 5.35 |
| 200 | 6 | 288 | 8 | 9 | 2.06 |
| 203 | 6 | 322 | 11 | 15 | 6.09 |
| 220 | 7 | 282 | 4 | 7 | 3.25 |
| 221 | 13 | 335 | 6 | 9 | 2.49 |
| 222 | 17 | 326 | 6 | 9 | 2.68 |
| 223 | 13 | 297 | 8 | 10 | 2.81 |
| 224 | 23 | 334 | 8 | 9 | 4.32 |
| 225 | 30 | 352 | 7 | 9 | 4.05 |
| 226 | 21 | 354 | 5 | 9 | 3.42 |
| 227 | 20 | 018 | 8 | 11 | 4.14 |
| 228 | 13 | 008 | 7 | 10 | 6.57 |
| 229 | 15 | 004 | 8 | 12 | 5.48 |
| 230 | 14 | 326 | 9 | 13 | 4.13 |
| 231 | 11 | 328 | 12 | 14 | 4.13 |
| 232 | 5 | 348 | 6 | 13 | 3.70 |
| 233 | 11 | 332 | 8 | 12 | 2.22 |
| 234 | 11 | 336 | 8 | 12 | 3.33 |
| 235 | 7 | 334 | 8 | 11 | 3.89 |
| 238 | 5 | 301 | 11 | 12 | 4.15 |
| 240 | 5 | 339 | 7 | 11 | 3.98 |
| 256 | 6 | 303 | 4 | 8 | 3.76 |
| 257 | 12 | 357 | 6 | 10 | 3.70 |
| 258 | 18 | 006 | 7 | 9 | 3.61 |
| 259 | 15 | 337 | 6 | 9 | 3.85 |
| 260 | 24 | 340 | 6 | 9 | 3.86 |
| 261 | 25 | 014 | 8 | 10 | 3.88 |
| 262 | 20 | 026 | 8 | 11 | 3.73 |
| 263 | 25 | 003 | 7 | 11 | 4.56 |
| 264 | 24 | 002 | 8 | 12 | 4.93 |
| 265 | 21 | 002 | 8 | 13 | 5.00 |
| 266 | 19 | 016 | 8 | 13 | 5.44 |
| 267 | 19 | 351 | 7 | 13 | 4.51 |
| 268 | 13 | 313 | 10 | 13 | 3.93 |
| 269 | 17 | 332 | 9 | 13 | 4.96 |
| 270 | 9 | 341 | 9 | 13 | 4.97 |
| 271 | 7 | 336 | 8 | 10 | 3.04 |
| 272 | 7 | 341 | 9 | 11 | 2.80 |
| 273 | 11 | 322 | 9 | 11 | 5.29 |
| 274 | 8 | 315 | 5 | 10 | 4.72 |
| 275 | 6 | 303 | 6 | 10 | 4.25 |
| 292 | 6 | 338 | 7 | 11 | 3.28 |
| 293 | 8 | 334 | 5 | 9 | 4.71 |
| 294 | 22 | 004 | 7 | 11 | 5.35 |
| 295 | 24 | 019 | 9 | 12 | 6.10 |
| 296 | 18 | 019 | 7 | 11 | 5.92 |
| 297 | 19 | 017 | 8 | 11 | 5.13 |
| 298 | 24 | 026 | 8 | 13 | 4.42 |
| 299 | 28 | 023 | 9 | 14 | 5.85 |
| 300 | 26 | 024 | 10 | 14 | 7.39 |
| 301 | 23 | 013 | 8 | 13 | 7.32 |
| 302 | 26 | 008 | 8 | 13 | 5.83 |
| 303 | 29 | 013 | 8 | 14 | 5.92 |
| 304 | 20 | 359 | 8 | 14 | 4.62 |
| 305 | 14 | 344 | 6 | 11 | 3.33 |
| 306 | 13 | 347 | 9 | 13 | 4.83 |
| 307 | 11 | 340 | 8 | 12 | 5.27 |
| 308 | 12 | 322 | 8 | 12 | 4.27 |
| 309 | 10 | 343 | 6 | 13 | 3.95 |
| 310 | 6 | 030 | 9 | 13 | 7.09 |
| 311 | 8 | 027 | 6 | 13 | 6.68 |
| 312 | 9 | 026 | 6 | 13 | 8.58 |
| 313 | 6 | 027 | 5 | 10 | 3.23 |
| 329 | 6 | 010 | 7 | 10 | 4.44 |
| 330 | 16 | 001 | 8 | 11 | 4.58 |
| 331 | 18 | 016 | 10 | 12 | 5.15 |
| 332 | 15 | 039 | 15 | 17 | 10.16 |
| 333 | 19 | 036 | 14 | 16 | 9.45 |
| 334 | 14 | 027 | 9 | 14 | 5.68 |
| 335 | 19 | 025 | 12 | 15 | 6.32 |
| 336 | 34 | 036 | 10 | 14 | 6.58 |
| 337 | 37 | 038 | 10 | 15 | 7.26 |
| 338 | 30 | 040 | 9 | 14 | 7.64 |
| 339 | 28 | 035 | 9 | 14 | 7.56 |
| 340 | 31 | 033 | 10 | 14 | 6.49 |
| 341 | 20 | 031 | 10 | 15 | 6.59 |
| 342 | 21 | 350 | 9 | 13 | 5.55 |
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| 347 | 11 | 045 | 5 | 12 | 5.92 |
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| 349 | 14 | 355 | 6 | 14 | 9.24 |
| 350 | 8 | 357 | 7 | 13 | 4.83 |
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| 373 | 35 | 024 | 9 | 13 | 6.99 |
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| 378 | 26 | 047 | 14 | 18 | 6.95 |
| 379 | 18 | 050 | 12 | 17 | 6.09 |
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| 382 | 9 | 087 | 9 | 15 | 10.24 |
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| 407 | 25 | 039 | 17 | 20 | 10.82 |
| 408 | 22 | 045 | 13 | 17 | 10.20 |
| 409 | 24 | 030 | 12 | 17 | 9.25 |
| 410 | 30 | 036 | 11 | 15 | 7.99 |
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| 452 | 17 | 054 | 23 | 24 | 9.86 |
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| 603 | 9 | 054 | 31 | 33 | 11.66 |
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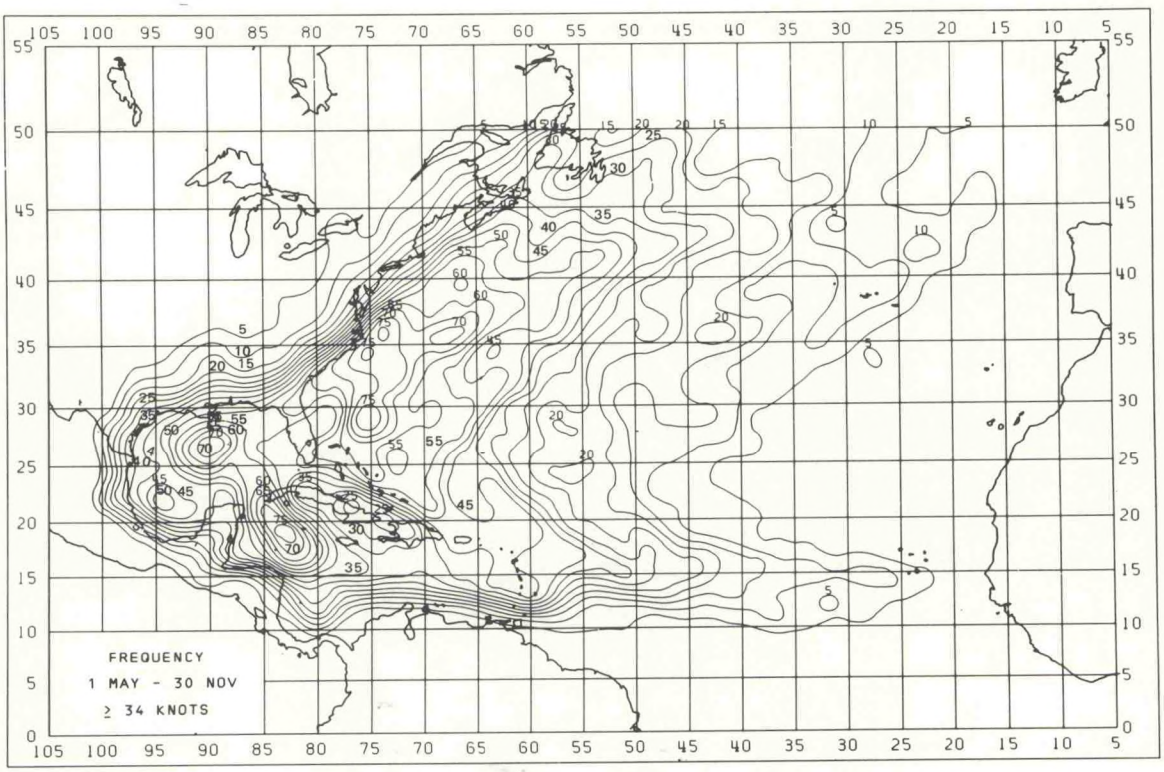
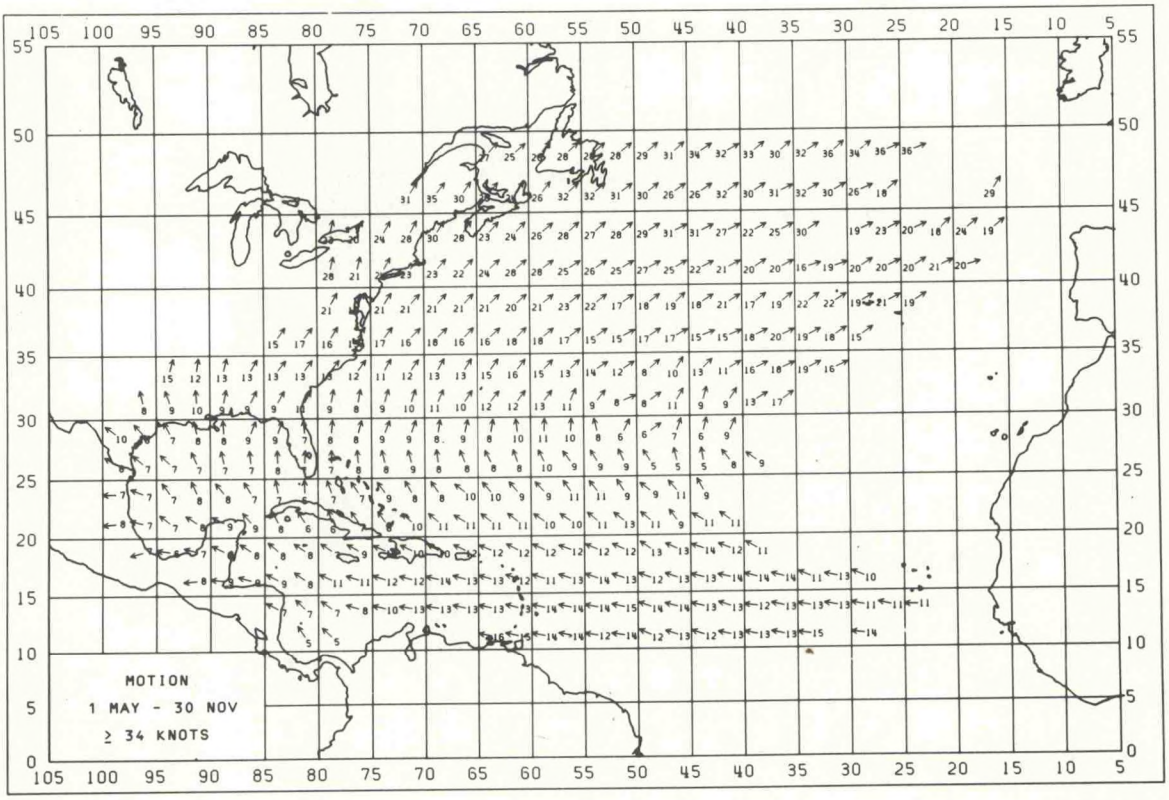
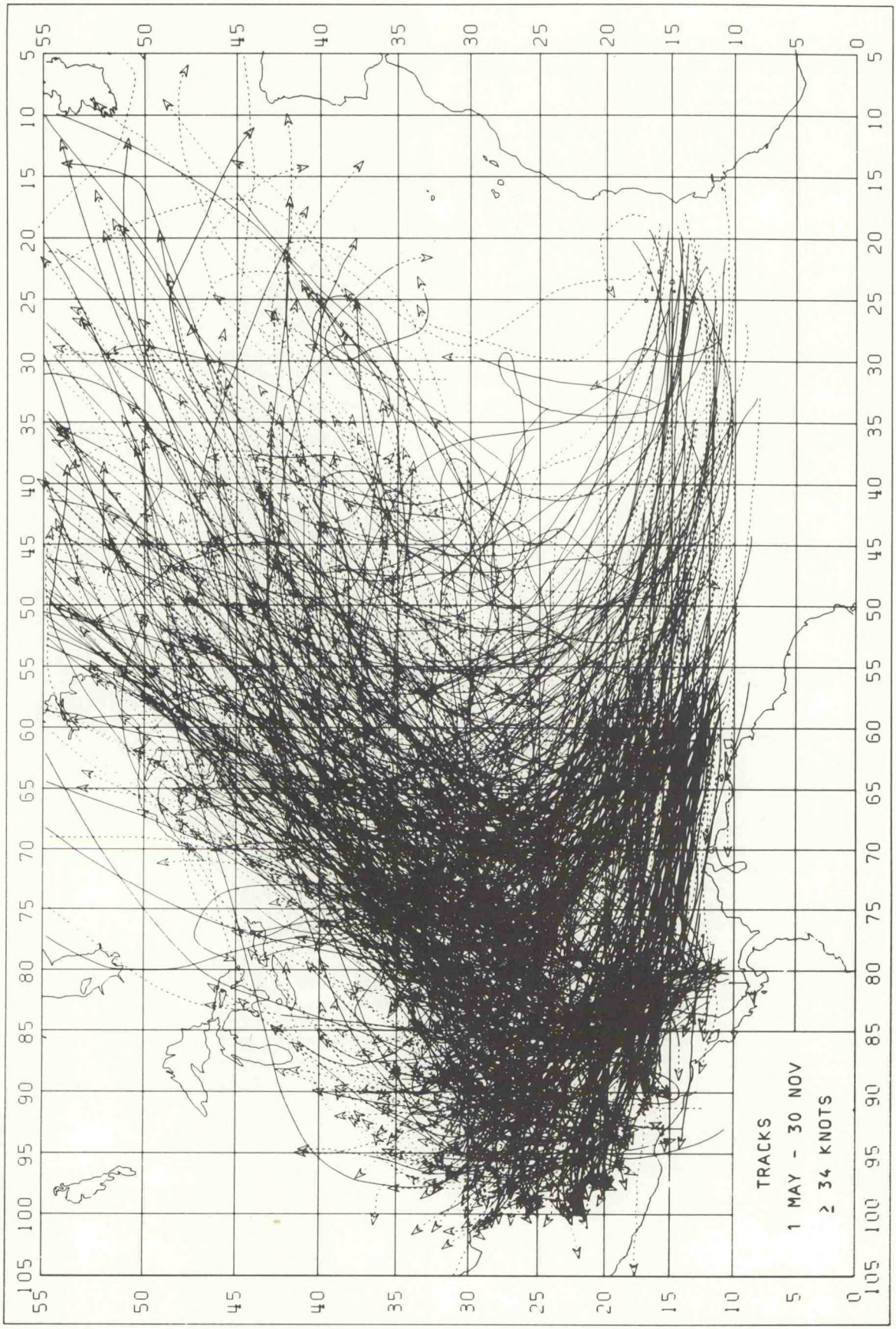
| 606 | 6 | 050 | 32 | 36 | 11.85 |
| 631 | 10 | 048 | 26 | 27 | 6.90 |
| 632 | 13 | 049 | 28 | 30 | 7.31 |
| 633 | 10 | 052 | 28 | 30 | 8.78 |
| 634 | 12 | 053 | 32 | 35 | 9.16 |
| 635 | 15 | 050 | 32 | 35 | 11.31 |
| 636 | 12 | 055 | 31 | 34 | 13.82 |
| 637 | 6 | 063 | 37 | 39 | 10.74 |
| 639 | 5 | 041 | 37 | 38 | 8.82 |
| 640 | 6 | 045 | 36 | 37 | 8.30 |
| 642 | 8 | 042 | 34 | 37 | 18.86 |


FREQUENCY
1 MAY - 30 NOV
≥ 34 KNOTS


MOTION
1 MAY - 30 NOV
≥ 34 KNOTS




See next page for tabular data.

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 82 | 18 | 327 | 5 | 6 | 4.05 |
| 83 | 16 | 313 | 5 | 8 | 4.66 |
| 89 | 9 | 281 | 16 | 16 | 4.61 |
| 90 | 16 | 282 | 15 | 15 | 4.66 |
| 91 | 17 | 281 | 14 | 14 | 5.09 |
| 92 | 12 | 281 | 14 | 14 | 5.59 |
| 93 | 7 | 278 | 12 | 13 | 5.17 |
| 94 | 8 | 278 | 14 | 14 | 5.44 |
| 95 | 5 | 293 | 12 | 13 | 4.07 |
| 96 | 7 | 288 | 13 | 14 | 2.87 |
| 97 | 6 | 288 | 12 | 12 | 3.52 |
| 98 | 8 | 282 | 13 | 13 | 3.97 |
| 99 | 10 | 281 | 13 | 14 | 3.83 |
| 100 | 11 | 282 | 13 | 13 | 4.29 |
| 101 | 7 | 276 | 15 | 15 | 4.54 |
| 103 | 7 | 276 | 14 | 15 | 4.85 |
| 117 | 15 | 297 | 7 | 9 | 3.50 |
| 118 | 35 | 314 | 7 | 8 | 4.00 |
| 119 | 29 | 306 | 7 | 9 | 4.12 |
| 120 | 25 | 286 | 8 | 11 | 4.23 |
| 121 | 25 | 283 | 10 | 12 | 4.42 |
| 122 | 25 | 279 | 13 | 13 | 4.77 |
| 123 | 31 | 279 | 13 | 14 | 4.34 |
| 124 | 37 | 282 | 13 | 13 | 4.21 |
| 125 | 46 | 282 | 13 | 13 | 3.80 |
| 126 | 47 | 284 | 13 | 13 | 4.16 |
| 127 | 40 | 283 | 14 | 15 | 5.43 |
| 128 | 26 | 281 | 14 | 14 | 4.23 |
| 129 | 25 | 280 | 14 | 15 | 4.46 |
| 130 | 29 | 282 | 15 | 16 | 4.89 |
| 131 | 27 | 288 | 14 | 15 | 4.35 |
| 132 | 23 | 284 | 14 | 14 | 4.28 |
| 133 | 20 | 284 | 13 | 14 | 3.46 |
| 134 | 18 | 287 | 13 | 13 | 3.55 |
| 135 | 11 | 276 | 12 | 13 | 4.15 |
| 136 | 10 | 282 | 13 | 14 | 2.34 |
| 137 | 9 | 279 | 13 | 14 | 3.55 |
| 138 | 9 | 280 | 13 | 13 | 4.45 |
| 139 | 10 | 281 | 11 | 12 | 4.54 |
| 140 | 9 | 282 | 11 | 12 | 3.62 |
| 141 | 8 | 270 | 11 | 12 | 4.67 |
| 150 | 10 | 264 | 8 | 11 | 3.97 |
| 151 | 25 | 276 | 9 | 10 | 3.66 |
| 152 | 35 | 285 | 9 | 10 | 3.88 |
| 153 | 53 | 298 | 9 | 10 | 4.09 |
| 154 | 62 | 305 | 8 | 10 | 4.10 |
| 155 | 45 | 294 | 11 | 12 | 4.92 |
| 156 | 42 | 287 | 11 | 13 | 5.56 |
| 157 | 36 | 287 | 12 | 15 | 4.75 |
| 158 | 38 | 284 | 12 | 14 | 4.55 |
| 159 | 38 | 282 | 14 | 14 | 4.92 |
| 160 | 43 | 285 | 13 | 14 | 4.35 |
| 161 | 44 | 285 | 13 | 13 | 4.05 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 162 | 43 | 288 | 12 | 13 | 4.46 |
| 163 | 43 | 288 | 11 | 12 | 4.16 |
| 164 | 42 | 288 | 13 | 13 | 5.73 |
| 165 | 37 | 288 | 14 | 14 | 5.68 |
| 166 | 32 | 287 | 13 | 13 | 5.59 |
| 167 | 30 | 290 | 12 | 13 | 4.30 |
| 168 | 25 | 288 | 13 | 13 | 4.05 |
| 169 | 24 | 283 | 13 | 14 | 4.46 |
| 170 | 17 | 282 | 14 | 15 | 6.19 |
| 171 | 15 | 284 | 14 | 14 | 6.77 |
| 172 | 9 | 284 | 14 | 15 | 4.31 |
| 173 | 10 | 291 | 11 | 13 | 4.37 |
| 174 | 5 | 281 | 13 | 14 | 4.30 |
| 175 | 7 | 291 | 10 | 11 | 4.22 |
| 184 | 8 | 254 | 7 | 10 | 2.35 |
| 185 | 23 | 279 | 6 | 8 | 3.87 |
| 186 | 24 | 285 | 7 | 9 | 4.08 |
| 187 | 29 | 296 | 9 | 10 | 3.64 |
| 188 | 48 | 303 | 8 | 10 | 3.58 |
| 189 | 72 | 311 | 8 | 10 | 3.97 |
| 190 | 67 | 304 | 8 | 10 | 4.19 |
| 191 | 43 | 304 | 7 | 11 | 5.05 |
| 192 | 34 | 299 | 9 | 12 | 5.31 |
| 193 | 30 | 294 | 10 | 12 | 3.63 |
| 194 | 28 | 296 | 10 | 13 | 2.71 |
| 195 | 44 | 300 | 10 | 12 | 3.36 |
| 196 | 48 | 296 | 12 | 13 | 3.27 |
| 197 | 50 | 292 | 12 | 13 | 3.54 |
| 198 | 50 | 298 | 12 | 13 | 4.41 |
| 199 | 44 | 296 | 12 | 12 | 4.28 |
| 200 | 34 | 290 | 12 | 12 | 3.28 |
| 201 | 25 | 293 | 12 | 13 | 3.87 |
| 202 | 22 | 294 | 12 | 13 | 4.87 |
| 203 | 25 | 305 | 13 | 14 | 5.08 |
| 204 | 14 | 294 | 13 | 14 | 6.75 |
| 205 | 8 | 290 | 14 | 15 | 5.23 |
| 206 | 7 | 292 | 12 | 13 | 3.85 |
| 207 | 5 | 300 | 11 | 12 | 3.32 |
| 219 | 18 | 264 | 8 | 9 | 4.49 |
| 220 | 35 | 283 | 7 | 9 | 3.70 |
| 221 | 52 | 308 | 7 | 9 | 3.45 |
| 222 | 45 | 303 | 8 | 10 | 3.36 |
| 223 | 38 | 297 | 9 | 11 | 3.06 |
| 224 | 59 | 319 | 9 | 10 | 3.76 |
| 225 | 66 | 333 | 8 | 10 | 3.81 |
| 226 | 38 | 328 | 6 | 9 | 3.54 |
| 227 | 30 | 346 | 6 | 11 | 3.58 |
| 228 | 25 | 325 | 7 | 10 | 5.40 |
| 229 | 32 | 325 | 8 | 11 | 4.44 |
| 230 | 48 | 312 | 10 | 12 | 4.24 |
| 231 | 55 | 310 | 11 | 13 | 4.47 |
| 232 | 43 | 301 | 11 | 12 | 4.59 |
| 233 | 45 | 308 | 11 | 13 | 4.36 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 234 | 47 | 308 | 11 | 12 | 4.16 |
| 235 | 35 | 305 | 10 | 11 | 4.35 |
| 236 | 25 | 304 | 10 | 11 | 3.63 |
| 237 | 24 | 310 | 11 | 13 | 4.78 |
| 238 | 19 | 308 | 13 | 14 | 5.04 |
| 239 | 14 | 310 | 11 | 12 | 3.84 |
| 240 | 10 | 322 | 9 | 13 | 4.62 |
| 241 | 7 | 300 | 11 | 14 | 3.62 |
| 242 | 7 | 306 | 11 | 12 | 2.77 |
| 255 | 20 | 269 | 7 | 9 | 3.49 |
| 256 | 40 | 291 | 7 | 9 | 2.74 |
| 257 | 43 | 324 | 7 | 10 | 4.06 |
| 258 | 47 | 336 | 8 | 10 | 4.23 |
| 259 | 47 | 321 | 8 | 10 | 3.87 |
| 260 | 59 | 328 | 7 | 9 | 3.46 |
| 261 | 50 | 350 | 7 | 10 | 3.52 |
| 262 | 38 | 359 | 6 | 11 | 3.43 |
| 263 | 44 | 341 | 7 | 10 | 4.00 |
| 264 | 52 | 327 | 7 | 11 | 4.34 |
| 265 | 60 | 324 | 9 | 12 | 4.35 |
| 266 | 57 | 330 | 8 | 12 | 4.55 |
| 267 | 52 | 326 | 8 | 12 | 4.46 |
| 268 | 42 | 309 | 10 | 11 | 4.54 |
| 269 | 45 | 319 | 10 | 12 | 4.38 |
| 270 | 32 | 319 | 9 | 11 | 4.20 |
| 271 | 22 | 317 | 9 | 11 | 4.43 |
| 272 | 18 | 325 | 11 | 12 | 3.05 |
| 273 | 21 | 322 | 11 | 13 | 5.78 |
| 274 | 17 | 328 | 9 | 13 | 5.19 |
| 275 | 10 | 307 | 9 | 12 | 4.54 |
| 276 | 9 | 319 | 11 | 13 | 4.34 |
| 277 | 6 | 332 | 9 | 11 | 4.37 |
| 291 | 21 | 302 | 8 | 9 | 3.41 |
| 292 | 41 | 312 | 7 | 9 | 3.66 |
| 293 | 47 | 314 | 7 | 10 | 3.87 |
| 294 | 68 | 336 | 7 | 10 | 4.29 |
| 295 | 65 | 348 | 7 | 11 | 4.76 |
| 296 | 50 | 354 | 7 | 10 | 5.56 |
| 297 | 50 | 357 | 8 | 11 | 5.21 |
| 298 | 51 | 002 | 7 | 12 | 4.03 |
| 299 | 60 | 000 | 7 | 12 | 5.52 |
| 300 | 63 | 355 | 8 | 12 | 6.29 |
| 301 | 56 | 346 | 8 | 12 | 5.73 |
| 302 | 57 | 345 | 9 | 12 | 5.57 |
| 303 | 56 | 352 | 8 | 12 | 5.37 |
| 304 | 46 | 339 | 8 | 11 | 4.74 |
| 305 | 36 | 334 | 8 | 11 | 3.93 |
| 306 | 28 | 341 | 8 | 12 | 4.34 |
| 307 | 26 | 335 | 10 | 13 | 5.10 |
| 308 | 23 | 324 | 9 | 12 | 4.24 |
| 309 | 20 | 329 | 9 | 13 | 5.57 |
| 310 | 17 | 336 | 9 | 13 | 5.26 |
| 311 | 13 | 327 | 5 | 13 | 5.78 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 312 | 13 | 347 | 5 | 13 | 7.29 |
| 313 | 10 | 351 | 5 | 12 | 4.02 |
| 314 | 8 | 322 | 8 | 15 | 3.77 |
| 315 | 7 | 306 | 9 | 12 | 4.73 |
| 327 | 16 | 306 | 10 | 11 | 3.84 |
| 328 | 32 | 318 | 8 | 11 | 4.46 |
| 329 | 44 | 333 | 7 | 9 | 3.98 |
| 330 | 54 | 347 | 8 | 10 | 4.41 |
| 331 | 56 | 357 | 8 | 12 | 4.35 |
| 332 | 55 | 021 | 9 | 13 | 7.45 |
| 333 | 54 | 021 | 9 | 13 | 7.37 |
| 334 | 47 | 356 | 7 | 12 | 5.27 |
| 335 | 45 | 005 | 8 | 12 | 5.74 |
| 336 | 77 | 015 | 8 | 12 | 5.91 |
| 337 | 73 | 021 | 9 | 13 | 6.71 |
| 338 | 60 | 019 | 9 | 13 | 6.67 |
| 339 | 60 | 009 | 8 | 13 | 6.06 |
| 340 | 57 | 013 | 9 | 13 | 5.95 |
| 341 | 40 | 010 | 8 | 14 | 5.73 |
| 342 | 34 | 353 | 10 | 13 | 5.24 |
| 343 | 21 | 003 | 11 | 14 | 6.78 |
| 344 | 22 | 004 | 10 | 15 | 6.47 |
| 345 | 21 | 347 | 8 | 12 | 5.40 |
| 346 | 15 | 025 | 6 | 11 | 4.00 |
| 347 | 13 | 054 | 6 | 12 | 5.41 |
| 348 | 16 | 019 | 7 | 15 | 8.78 |
| 349 | 16 | 014 | 6 | 15 | 9.01 |
| 350 | 13 | 024 | 9 | 15 | 5.07 |
| 364 | 19 | 347 | 8 | 9 | 3.85 |
| 365 | 18 | 340 | 9 | 11 | 4.85 |
| 366 | 30 | 356 | 10 | 13 | 3.87 |
| 367 | 36 | 011 | 9 | 12 | 4.99 |
| 368 | 39 | 026 | 9 | 12 | 6.31 |
| 369 | 46 | 031 | 9 | 14 | 7.14 |
| 370 | 57 | 029 | 11 | 16 | 8.36 |
| 371 | 57 | 010 | 9 | 13 | 7.14 |
| 372 | 67 | 011 | 8 | 12 | 6.34 |
| 373 | 70 | 017 | 9 | 12 | 5.97 |
| 374 | 62 | 019 | 10 | 14 | 6.55 |
| 375 | 56 | 024 | 11 | 14 | 6.78 |
| 376 | 52 | 034 | 10 | 14 | 7.67 |
| 377 | 54 | 039 | 12 | 16 | 6.80 |
| 378 | 42 | 038 | 12 | 16 | 7.38 |
| 379 | 29 | 038 | 13 | 17 | 6.69 |
| 380 | 26 | 024 | 11 | 16 | 6.02 |
| 381 | 22 | 039 | 9 | 14 | 7.22 |
| 382 | 16 | 068 | 8 | 14 | 9.21 |
| 383 | 15 | 055 | 8 | 15 | 8.58 |
| 384 | 17 | 031 | 11 | 17 | 10.15 |
| 385 | 12 | 015 | 9 | 13 | 8.15 |
| 386 | 11 | 033 | 9 | 12 | 8.35 |
| 387 | 10 | 060 | 13 | 15 | 7.37 |
| 388 | 7 | 054 | 17 | 17 | 5.02 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 401 | 7 | 016 | 15 | 16 | 9.13 |
| 402 | 14 | 008 | 12 | 13 | 5.45 |
| 403 | 16 | 013 | 13 | 15 | 7.86 |
| 404 | 14 | 029 | 13 | 15 | 8.06 |
| 405 | 15 | 039 | 13 | 14 | 7.67 |
| 406 | 35 | 037 | 13 | 15 | 8.06 |
| 407 | 61 | 037 | 13 | 17 | 9.18 |
| 408 | 74 | 037 | 12 | 15 | 8.16 |
| 409 | 71 | 029 | 11 | 15 | 8.06 |
| 410 | 67 | 034 | 12 | 16 | 8.21 |
| 411 | 61 | 030 | 13 | 15 | 6.71 |
| 412 | 54 | 032 | 13 | 15 | 6.39 |
| 413 | 46 | 035 | 15 | 18 | 7.08 |
| 414 | 45 | 038 | 16 | 18 | 7.26 |
| 415 | 36 | 044 | 15 | 17 | 7.42 |
| 416 | 33 | 046 | 13 | 16 | 6.15 |
| 417 | 22 | 058 | 14 | 16 | 7.92 |
| 418 | 19 | 056 | 12 | 15 | 9.21 |
| 419 | 18 | 048 | 8 | 14 | 9.51 |
| 420 | 18 | 032 | 10 | 14 | 7.96 |
| 421 | 15 | 046 | 13 | 15 | 11.46 |
| 422 | 11 | 059 | 11 | 16 | 12.05 |
| 423 | 9 | 064 | 16 | 19 | 11.68 |
| 424 | 7 | 066 | 18 | 20 | 8.85 |
| 425 | 9 | 063 | 19 | 21 | 8.68 |
| 426 | 7 | 065 | 16 | 17 | 8.85 |
| 441 | 6 | 036 | 15 | 17 | 6.51 |
| 442 | 11 | 038 | 17 | 19 | 7.21 |
| 443 | 21 | 031 | 16 | 19 | 8.79 |
| 444 | 47 | 035 | 15 | 18 | 8.80 |
| 445 | 76 | 038 | 17 | 19 | 8.10 |
| 446 | 64 | 046 | 16 | 18 | 8.25 |
| 447 | 71 | 046 | 18 | 20 | 8.98 |
| 448 | 73 | 044 | 16 | 18 | 8.13 |
| 449 | 61 | 048 | 16 | 18 | 8.97 |
| 450 | 49 | 046 | 18 | 19 | 9.39 |
| 451 | 52 | 051 | 18 | 20 | 8.83 |
| 452 | 43 | 053 | 17 | 19 | 8.58 |
| 453 | 33 | 055 | 15 | 18 | 8.10 |
| 454 | 26 | 063 | 15 | 19 | 8.74 |
| 455 | 27 | 057 | 17 | 21 | 10.26 |
| 456 | 22 | 062 | 17 | 20 | 10.77 |
| 457 | 21 | 069 | 15 | 17 | 9.77 |
| 458 | 21 | 068 | 15 | 17 | 9.93 |
| 459 | 16 | 065 | 18 | 19 | 8.80 |
| 460 | 9 | 065 | 20 | 21 | 6.62 |
| 461 | 9 | 063 | 19 | 22 | 7.91 |
| 462 | 11 | 057 | 18 | 20 | 9.45 |
| 463 | 8 | 055 | 15 | 18 | 9.02 |
| 479 | 9 | 029 | 21 | 23 | 10.97 |
| 480 | 22 | 032 | 19 | 22 | 8.57 |
| 481 | 40 | 033 | 21 | 23 | 9.93 |
| 482 | 56 | 043 | 21 | 23 | 9.39 |

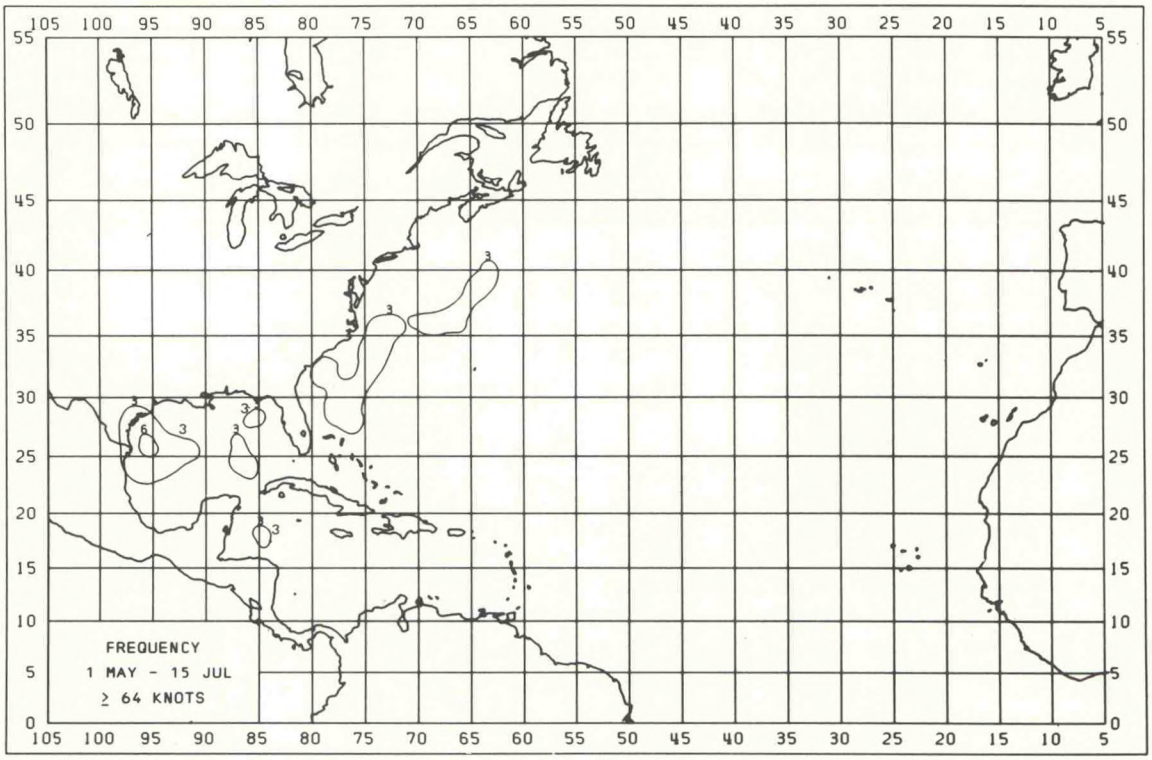
| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 483 | 60 | 042 | 21 | 23 | 9.35 |
| 484 | 59 | 044 | 21 | 23 | 10.86 |
| 485 | 56 | 047 | 21 | 23 | 10.66 |
| 486 | 55 | 049 | 20 | 22 | 9.33 |
| 487 | 52 | 051 | 21 | 23 | 10.36 |
| 488 | 46 | 053 | 23 | 24 | 9.65 |
| 489 | 41 | 053 | 22 | 23 | 9.97 |
| 490 | 29 | 055 | 17 | 19 | 10.12 |
| 491 | 22 | 052 | 18 | 21 | 9.13 |
| 492 | 21 | 047 | 19 | 22 | 11.07 |
| 493 | 18 | 057 | 18 | 19 | 11.35 |
| 494 | 15 | 058 | 21 | 22 | 10.68 |
| 495 | 9 | 053 | 17 | 19 | 7.70 |
| 496 | 10 | 051 | 19 | 21 | 8.44 |
| 497 | 6 | 054 | 22 | 23 | 10.52 |
| 498 | 9 | 058 | 22 | 24 | 8.79 |
| 499 | 12 | 061 | 19 | 22 | 10.46 |
| 500 | 13 | 063 | 21 | 24 | 10.24 |
| 501 | 7 | 058 | 19 | 22 | 11.51 |
| 515 | 6 | 013 | 28 | 31 | 16.54 |
| 516 | 10 | 014 | 21 | 23 | 12.21 |
| 517 | 19 | 028 | 24 | 26 | 11.25 |
| 518 | 31 | 037 | 23 | 24 | 10.86 |
| 519 | 46 | 041 | 23 | 24 | 10.37 |
| 520 | 59 | 044 | 22 | 24 | 9.09 |
| 521 | 54 | 048 | 24 | 26 | 11.40 |
| 522 | 46 | 050 | 28 | 30 | 11.72 |
| 523 | 46 | 054 | 28 | 29 | 11.85 |
| 524 | 48 | 057 | 25 | 27 | 10.81 |
| 525 | 51 | 057 | 26 | 28 | 10.52 |
| 526 | 45 | 059 | 25 | 27 | 11.21 |
| 527 | 35 | 062 | 27 | 29 | 11.08 |
| 528 | 27 | 060 | 25 | 27 | 9.87 |
| 529 | 22 | 064 | 22 | 24 | 11.01 |
| 530 | 18 | 062 | 21 | 23 | 10.87 |
| 531 | 20 | 057 | 20 | 22 | 11.02 |
| 532 | 12 | 063 | 20 | 23 | 12.85 |
| 533 | 11 | 073 | 16 | 19 | 9.64 |
| 534 | 11 | 071 | 19 | 21 | 10.55 |
| 535 | 10 | 058 | 20 | 25 | 10.66 |
| 536 | 10 | 065 | 20 | 23 | 12.57 |
| 537 | 10 | 058 | 20 | 24 | 11.15 |
| 538 | 9 | 066 | 21 | 26 | 10.93 |
| 539 | 6 | 074 | 20 | 26 | 10.64 |
| 551 | 6 | 014 | 23 | 29 | 16.02 |
| 552 | 5 | 025 | 20 | 24 | 16.50 |
| 553 | 7 | 032 | 24 | 25 | 12.36 |
| 554 | 14 | 030 | 28 | 29 | 10.83 |
| 555 | 21 | 034 | 30 | 31 | 14.39 |
| 556 | 32 | 036 | 28 | 29 | 11.87 |
| 557 | 44 | 044 | 23 | 24 | 9.10 |
| 558 | 46 | 045 | 24 | 25 | 9.54 |
| 559 | 38 | 053 | 26 | 28 | 11.11 |

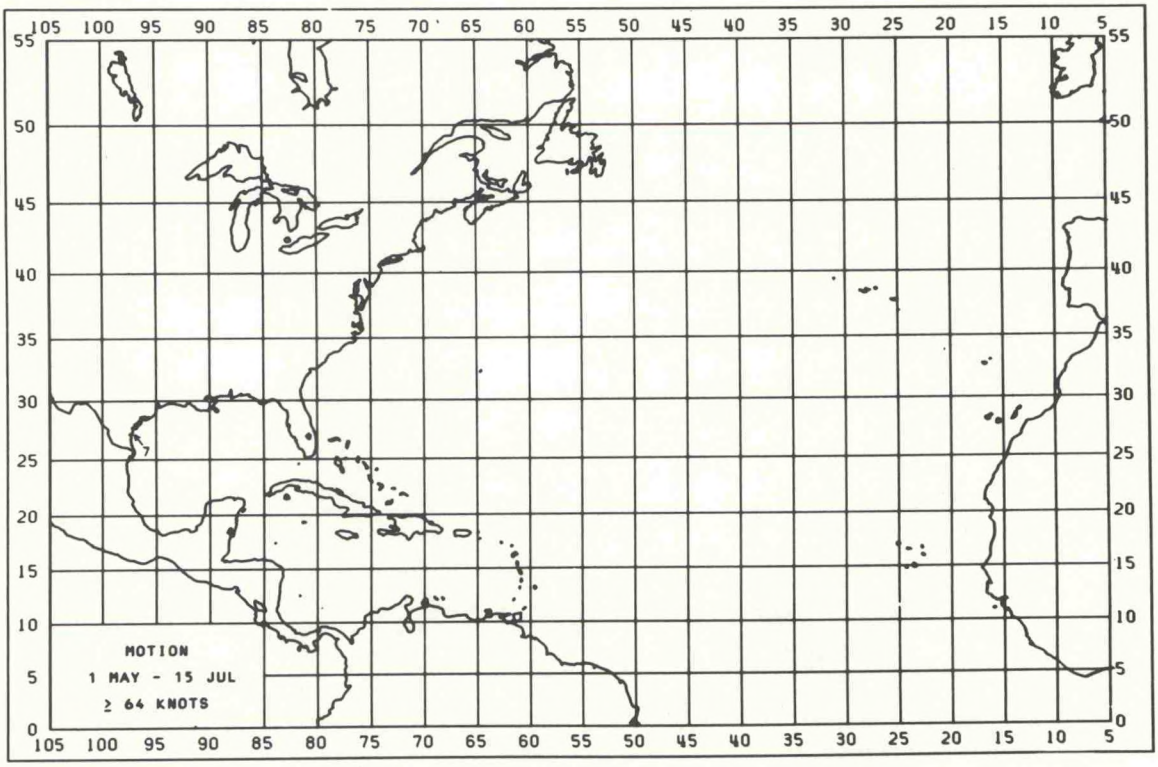
| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 560 | 40 | 050 | 28 | 31 | 12.43 |
| 561 | 36 | 051 | 27 | 29 | 8.97 |
| 562 | 38 | 054 | 28 | 30 | 9.88 |
| 563 | 31 | 060 | 29 | 31 | 11.28 |
| 564 | 31 | 065 | 31 | 33 | 10.53 |
| 565 | 29 | 066 | 31 | 32 | 10.66 |
| 566 | 26 | 066 | 27 | 29 | 12.48 |
| 567 | 25 | 063 | 22 | 25 | 12.24 |
| 568 | 20 | 064 | 25 | 27 | 12.66 |
| 569 | 12 | 060 | 30 | 32 | 12.05 |
| 571 | 7 | 067 | 19 | 27 | 13.12 |
| 572 | 8 | 065 | 23 | 29 | 12.88 |
| 573 | 7 | 068 | 20 | 28 | 10.30 |
| 574 | 7 | 048 | 18 | 25 | 12.16 |
| 575 | 6 | 052 | 24 | 27 | 12.05 |
| 576 | 5 | 052 | 19 | 25 | 14.93 |
| 590 | 6 | 034 | 31 | 34 | 7.18 |
| 591 | 10 | 039 | 35 | 37 | 12.14 |
| 592 | 20 | 035 | 30 | 32 | 11.80 |
| 593 | 25 | 042 | 26 | 28 | 12.62 |
| 594 | 32 | 039 | 24 | 26 | 9.72 |
| 595 | 31 | 039 | 26 | 28 | 8.87 |
| 596 | 25 | 049 | 32 | 35 | 15.80 |
| 597 | 29 | 052 | 32 | 34 | 15.56 |
| 598 | 32 | 054 | 31 | 33 | 14.19 |
| 599 | 31 | 053 | 30 | 33 | 15.02 |
| 600 | 25 | 057 | 26 | 29 | 17.01 |
| 601 | 20 | 057 | 26 | 28 | 9.30 |
| 602 | 23 | 056 | 32 | 34 | 9.55 |
| 603 | 20 | 058 | 30 | 32 | 12.82 |
| 604 | 16 | 066 | 31 | 33 | 13.52 |
| 605 | 19 | 062 | 32 | 35 | 9.45 |
| 606 | 15 | 060 | 30 | 34 | 8.36 |
| 607 | 7 | 067 | 26 | 28 | 10.39 |
| 608 | 5 | 051 | 18 | 25 | 16.25 |
| 612 | 6 | 032 | 29 | 33 | 12.05 |
| 629 | 9 | 042 | 27 | 28 | 10.24 |
| 630 | 16 | 050 | 25 | 26 | 13.10 |
| 631 | 29 | 041 | 26 | 28 | 10.25 |
| 632 | 28 | 048 | 28 | 29 | 7.87 |
| 633 | 20 | 050 | 28 | 30 | 7.84 |
| 634 | 23 | 051 | 28 | 31 | 8.53 |
| 635 | 26 | 050 | 29 | 32 | 10.34 |
| 636 | 27 | 049 | 31 | 34 | 11.92 |
| 637 | 17 | 057 | 34 | 36 | 9.09 |
| 638 | 13 | 062 | 32 | 34 | 9.27 |
| 639 | 13 | 051 | 33 | 35 | 7.64 |
| 640 | 14 | 050 | 30 | 31 | 10.81 |
| 641 | 9 | 060 | 32 | 33 | 16.64 |
| 642 | 15 | 049 | 36 | 39 | 15.33 |
| 643 | 11 | 052 | 34 | 36 | 12.99 |
| 644 | 6 | 068 | 36 | 36 | 5.94 |
| 645 | 6 | 070 | 36 | 36 | 4.26 |

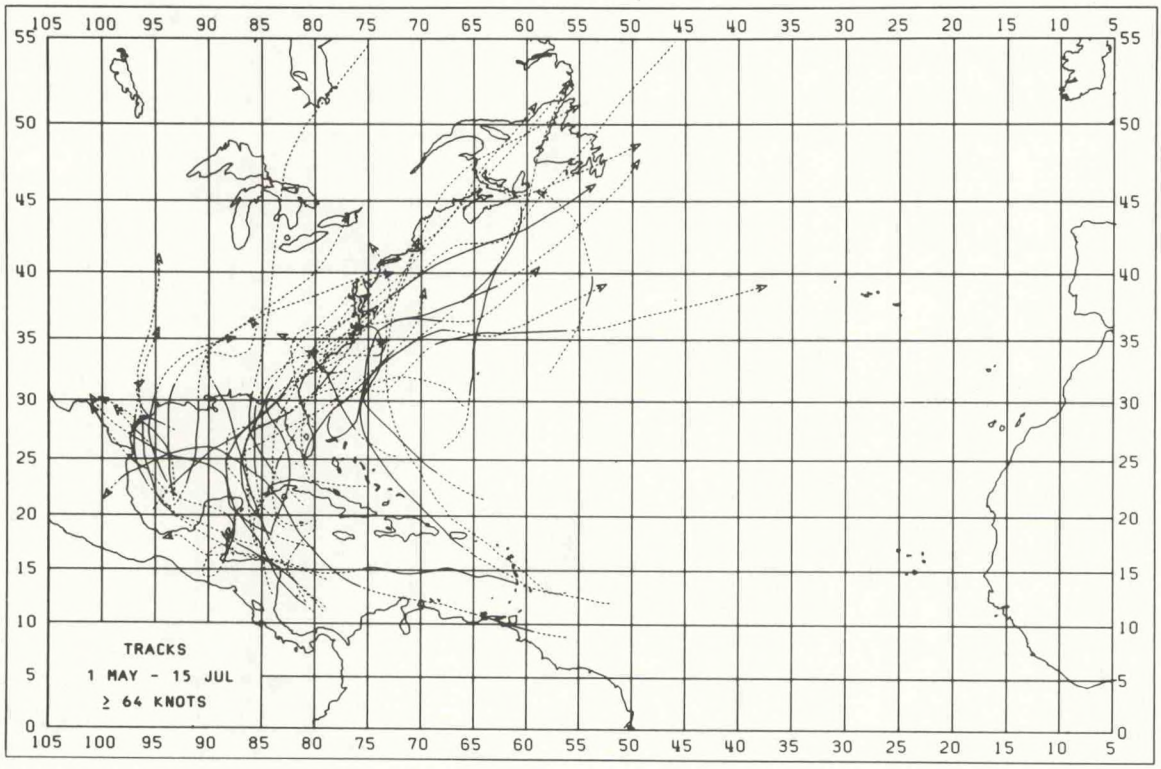
TABULAR DATA
1 MAY - 30 NOV
≥ 34 KNOTS

## A.4 Chart Series B

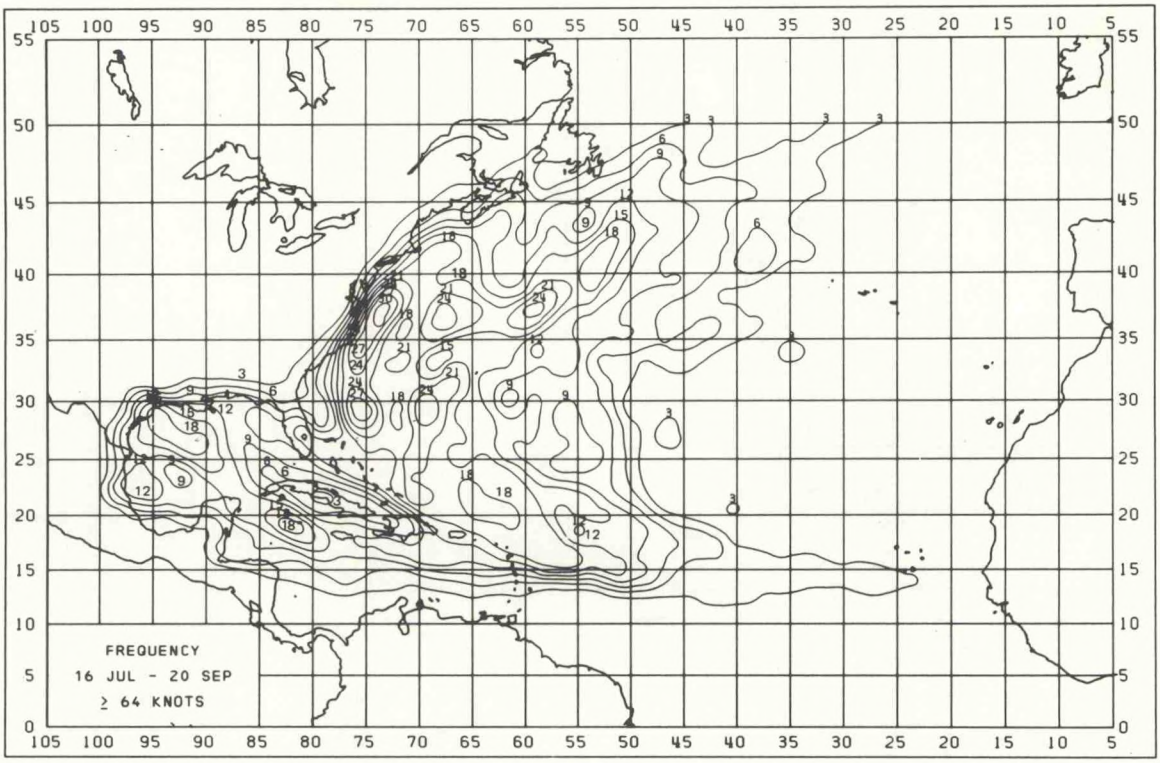
Charts and tabular data in this series are based on portions of storm tracks having intensities of at least 64 knots and for the following periods:

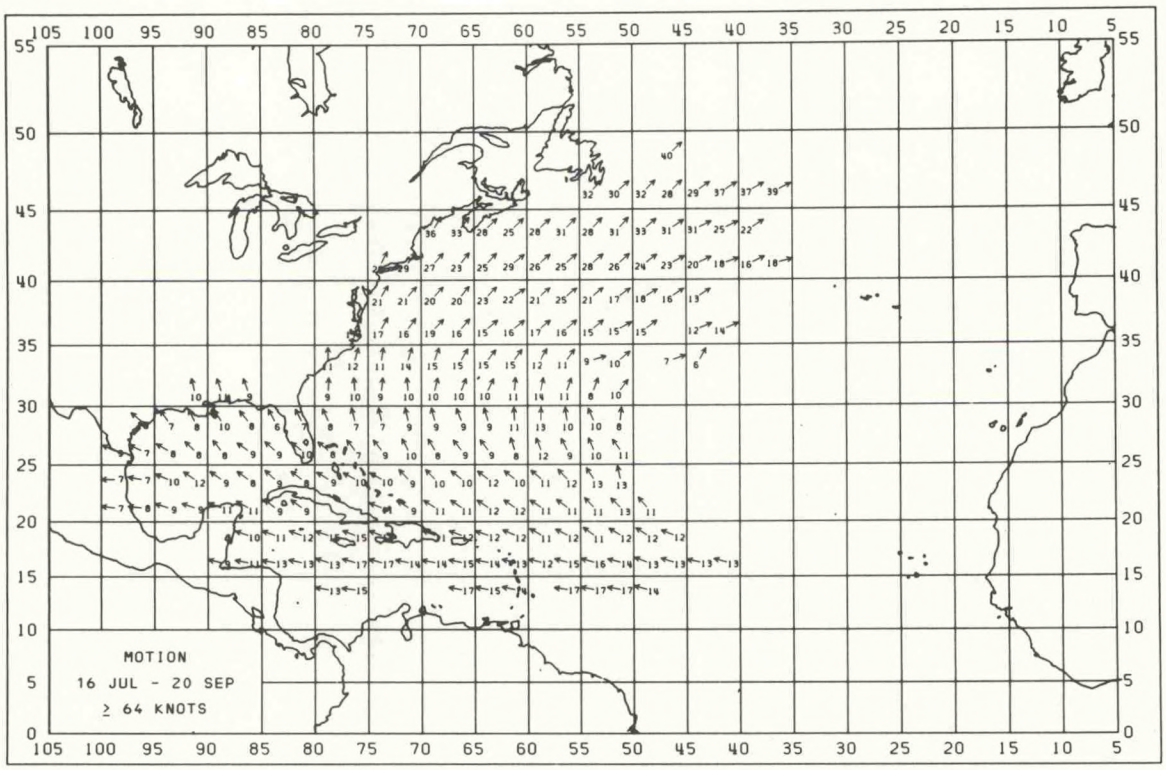

FREQUENCY
1 MAY - 15 JUL
≥ 64 KNOTS

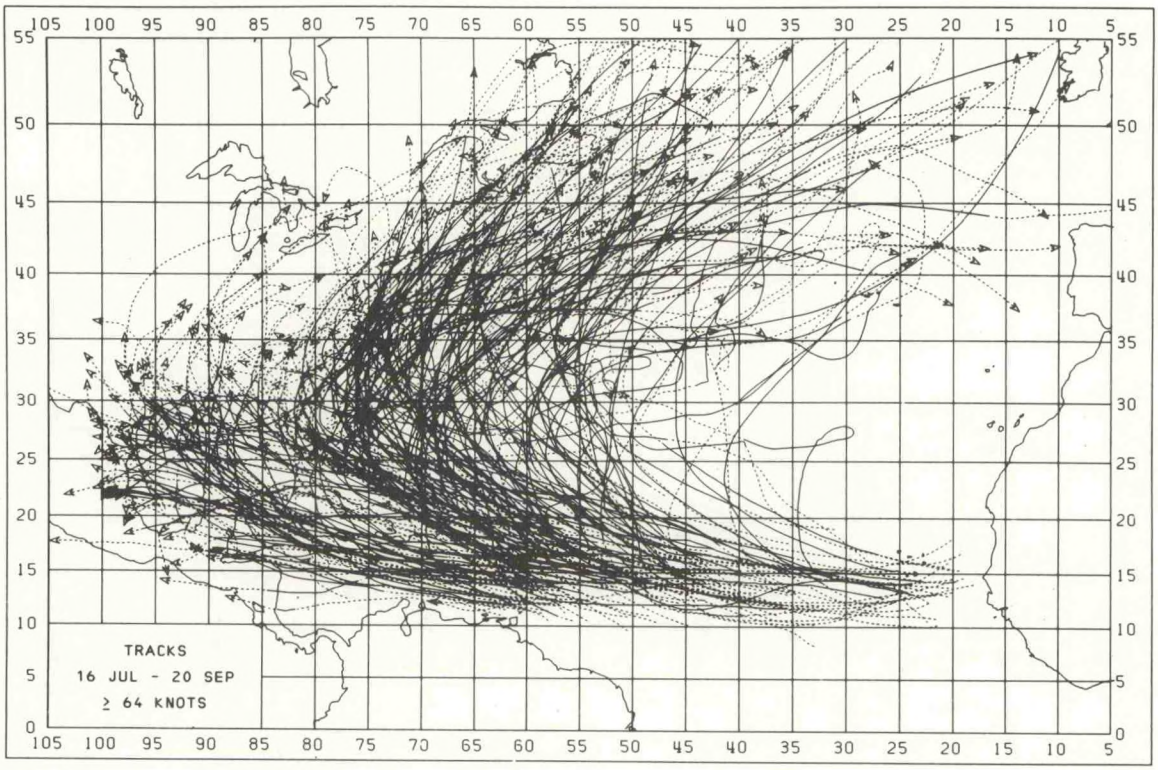

MOTION
1 MAY - 15 JUL
≥ 64 KNOTS




A B C D E F
292 5 323 7 8 3.80


FREQUENCY
16 JUL - 20 SEP
≥ 64 KNOTS


MOTION
16 JUL - 20 SEP
≥ 64 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
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| 124 | 6 | 280 | 17 | 18 | 3.97 |
| 125 | 8 | 281 | 15 | 16 | 5.29 |
| 126 | 5 | 282 | 14 | 14 | 2.12 |
| 128 | 6 | 278 | 17 | 17 | 5.25 |
| 129 | 7 | 280 | 17 | 17 | 5.03 |
| 130 | 12 | 280 | 17 | 17 | 4.22 |
| 131 | 9 | 286 | 14 | 15 | 4.00 |
| 151 | 6 | 283 | 9 | 9 | 4.35 |
| 152 | 8 | 281 | 11 | 12 | 5.09 |
| 153 | 7 | 280 | 13 | 14 | 4.55 |
| 154 | 7 | 282 | 13 | 13 | 5.31 |
| 155 | 10 | 289 | 13 | 13 | 5.44 |
| 156 | 9 | 286 | 17 | 17 | 4.32 |
| 157 | 10 | 285 | 17 | 17 | 4.82 |
| 158 | 13 | 282 | 14 | 15 | 3.91 |
| 159 | 15 | 280 | 14 | 15 | 3.84 |
| 160 | 13 | 282 | 15 | 15 | 4.36 |
| 161 | 15 | 281 | 14 | 14 | 4.46 |
| 162 | 17 | 283 | 13 | 13 | 4.26 |
| 163 | 19 | 284 | 12 | 13 | 4.01 |
| 164 | 21 | 286 | 15 | 15 | 5.55 |
| 165 | 17 | 287 | 16 | 16 | 5.88 |
| 166 | 14 | 285 | 14 | 15 | 5.99 |
| 167 | 10 | 292 | 13 | 14 | 5.52 |
| 168 | 8 | 288 | 13 | 14 | 5.07 |
| 169 | 6 | 282 | 13 | 13 | 3.06 |
| 170 | 6 | 286 | 13 | 13 | 3.24 |
| 188 | 10 | 290 | 10 | 11 | 3.89 |
| 189 | 15 | 290 | 11 | 11 | 3.89 |
| 190 | 21 | 291 | 12 | 13 | 4.21 |
| 191 | 11 | 289 | 15 | 15 | 4.03 |
| 192 | 11 | 291 | 15 | 15 | 3.58 |
| 193 | 8 | 290 | 13 | 13 | 3.54 |
| 195 | 16 | 291 | 11 | 12 | 3.01 |
| 196 | 18 | 290 | 12 | 13 | 3.08 |
| 197 | 20 | 289 | 12 | 12 | 3.47 |
| 198 | 19 | 294 | 12 | 12 | 3.39 |
| 199 | 21 | 300 | 11 | 12 | 3.43 |
| 200 | 15 | 297 | 12 | 12 | 2.88 |
| 201 | 14 | 307 | 11 | 12 | 3.77 |
| 202 | 13 | 301 | 12 | 12 | 3.92 |
| 203 | 13 | 303 | 12 | 12 | 3.96 |
| 204 | 9 | 292 | 12 | 13 | 7.04 |
| 219 | 5 | 277 | 7 | 8 | 3.38 |
| 220 | 10 | 276 | 8 | 9 | 3.73 |
| 221 | 10 | 288 | 9 | 9 | 2.76 |
| 222 | 10 | 288 | 9 | 10 | 3.16 |
| 223 | 12 | 291 | 11 | 12 | 2.55 |
| 224 | 14 | 299 | 11 | 12 | 3.18 |
| 225 | 12 | 307 | 9 | 10 | 3.70 |
| 226 | 6 | 306 | 9 | 11 | 4.39 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
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| 230 | 19 | 302 | 9 | 10 | 3.51 |
| 231 | 21 | 303 | 11 | 12 | 4.47 |
| 232 | 20 | 303 | 11 | 12 | 5.13 |
| 233 | 18 | 304 | 12 | 12 | 4.12 |
| 234 | 18 | 304 | 12 | 12 | 4.26 |
| 235 | 18 | 303 | 11 | 12 | 4.85 |
| 236 | 16 | 306 | 11 | 12 | 3.61 |
| 237 | 16 | 316 | 11 | 13 | 4.98 |
| 238 | 11 | 314 | 13 | 14 | 5.77 |
| 239 | 6 | 319 | 11 | 12 | 3.26 |
| 255 | 5 | 268 | 7 | 8 | 3.56 |
| 256 | 13 | 280 | 7 | 8 | 2.22 |
| 257 | 9 | 293 | 10 | 11 | 5.98 |
| 258 | 10 | 305 | 12 | 13 | 4.69 |
| 259 | 14 | 306 | 9 | 10 | 3.72 |
| 260 | 10 | 306 | 8 | 9 | 2.31 |
| 261 | 5 | 313 | 9 | 9 | 2.96 |
| 262 | 8 | 307 | 8 | 9 | 2.87 |
| 263 | 11 | 302 | 9 | 9 | 3.23 |
| 264 | 16 | 299 | 10 | 10 | 3.46 |
| 265 | 16 | 299 | 10 | 11 | 3.09 |
| 266 | 21 | 316 | 9 | 10 | 3.31 |
| 267 | 20 | 316 | 10 | 11 | 4.39 |
| 268 | 19 | 308 | 10 | 11 | 4.39 |
| 269 | 20 | 307 | 12 | 12 | 4.23 |
| 270 | 19 | 308 | 10 | 10 | 3.71 |
| 271 | 12 | 310 | 11 | 12 | 4.90 |
| 272 | 9 | 316 | 12 | 13 | 3.31 |
| 273 | 9 | 326 | 13 | 15 | 5.71 |
| 274 | 8 | 348 | 13 | 14 | 5.69 |
| 291 | 5 | 294 | 9 | 10 | 3.14 |
| 292 | 15 | 296 | 7 | 10 | 3.77 |
| 293 | 16 | 301 | 8 | 10 | 4.11 |
| 294 | 19 | 314 | 8 | 9 | 3.58 |
| 295 | 14 | 322 | 8 | 10 | 3.21 |
| 296 | 8 | 306 | 9 | 10 | 3.92 |
| 297 | 12 | 313 | 9 | 10 | 3.05 |
| 298 | 14 | 310 | 10 | 11 | 2.67 |
| 299 | 18 | 310 | 8 | 10 | 2.70 |
| 300 | 16 | 323 | 7 | 9 | 4.27 |
| 301 | 20 | 322 | 9 | 10 | 3.50 |
| 302 | 21 | 332 | 10 | 11 | 3.59 |
| 303 | 21 | 330 | 8 | 10 | 4.02 |
| 304 | 18 | 321 | 9 | 10 | 4.30 |
| 305 | 16 | 324 | 9 | 10 | 4.75 |
| 306 | 11 | 343 | 8 | 11 | 3.62 |
| 307 | 12 | 338 | 12 | 14 | 5.36 |
| 308 | 10 | 334 | 9 | 13 | 4.06 |
| 309 | 7 | 338 | 10 | 11 | 3.88 |
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| A | B | C | D | E | F |
|---|---|---|---|---|---|
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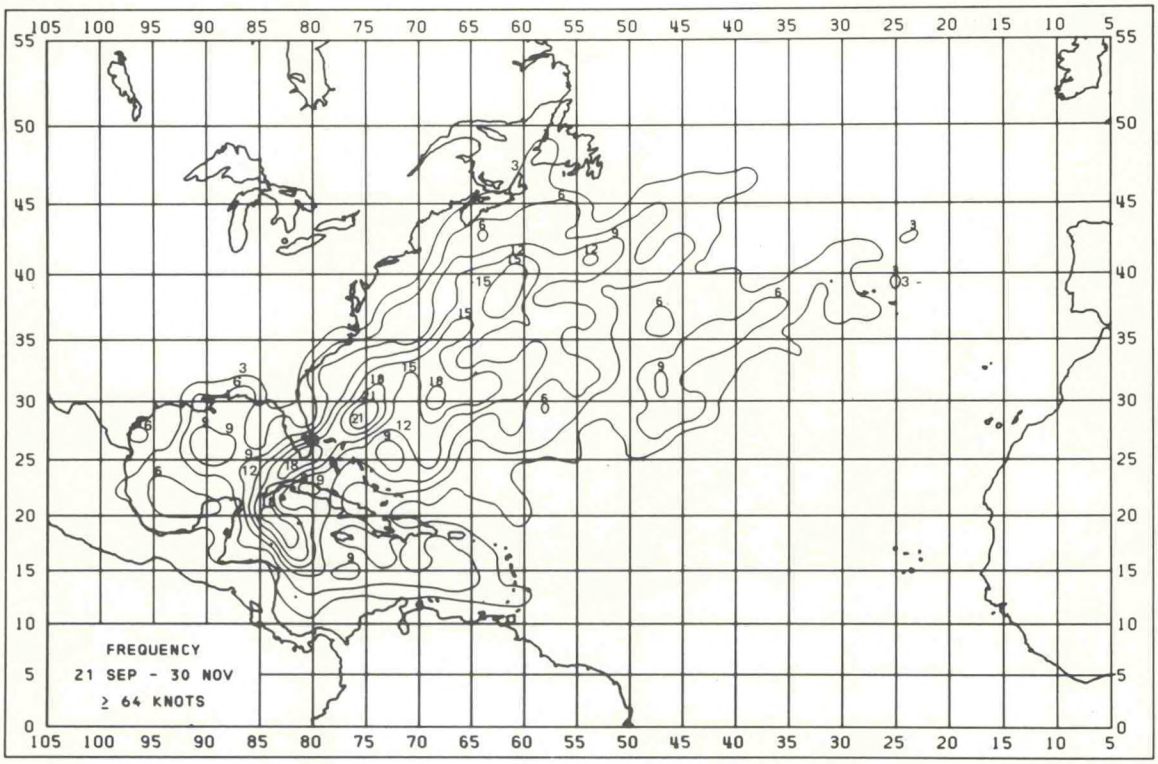
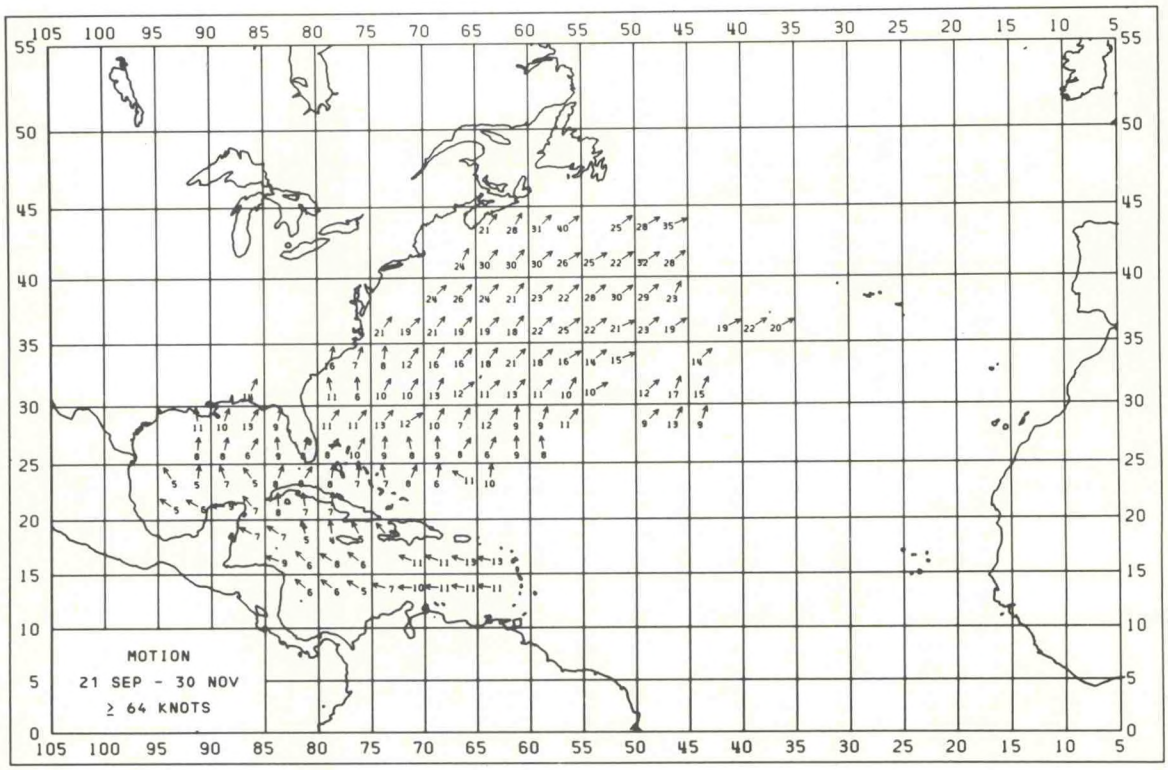
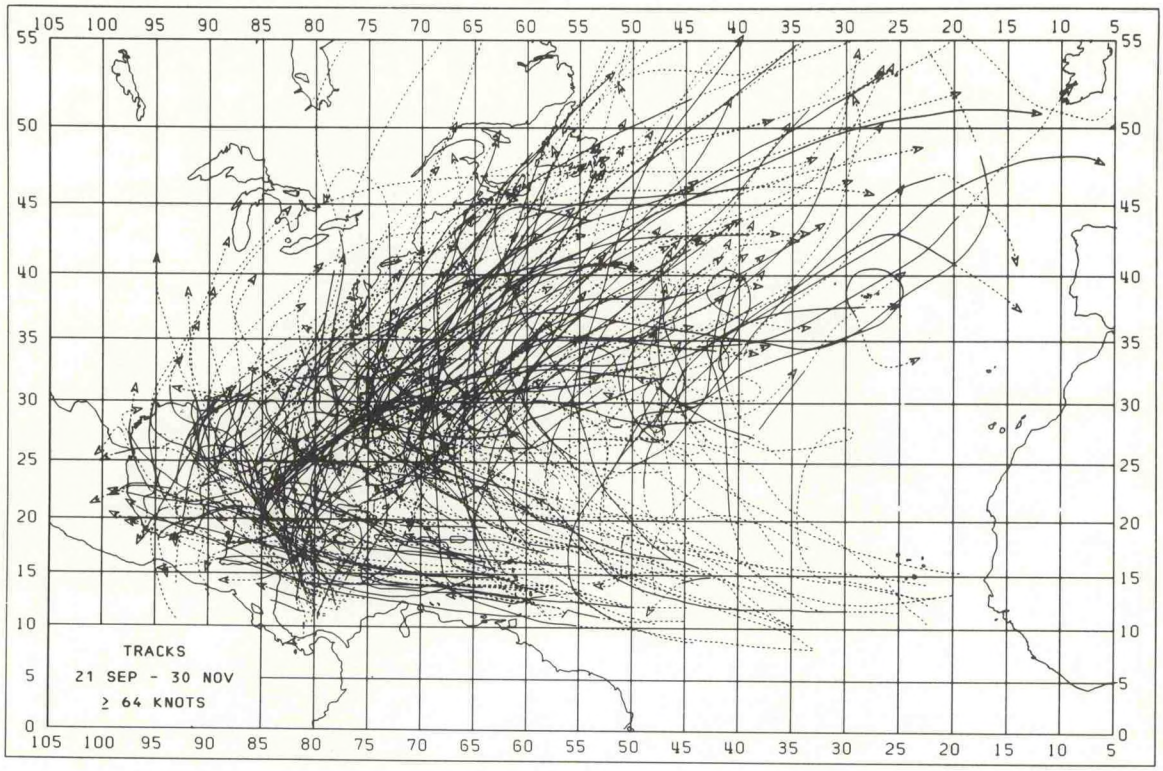
| 333 | 12 | 332 | 6 | 8 | 2.73 |
| 334 | 14 | 334 | 7 | 9 | 3.54 |
| 335 | 8 | 337 | 8 | 9 | 3.09 |
| 336 | 27 | 346 | 7 | 9 | 4.41 |
| 337 | 23 | 347 | 7 | 11 | 4.38 |
| 338 | 20 | 347 | 9 | 12 | 4.22 |
| 339 | 27 | 346 | 9 | 12 | 4.17 |
| 340 | 18 | 339 | 9 | 11 | 4.34 |
| 341 | 17 | 344 | 9 | 12 | 4.10 |
| 342 | 12 | 357 | 11 | 14 | 5.19 |
| 343 | 12 | 001 | 13 | 16 | 7.79 |
| 344 | 8 | 352 | 10 | 14 | 8.08 |
| 345 | 10 | 337 | 10 | 12 | 3.79 |
| 346 | 6 | 006 | 8 | 11 | 4.65 |
| 366 | 7 | 347 | 10 | 13 | 4.23 |
| 367 | 6 | 342 | 11 | 12 | 3.58 |
| 368 | 5 | 341 | 9 | 9 | 4.16 |
| 371 | 13 | 003 | 9 | 11 | 5.51 |
| 372 | 23 | 356 | 10 | 11 | 3.99 |
| 373 | 20 | 006 | 9 | 11 | 5.06 |
| 374 | 21 | 354 | 10 | 12 | 5.94 |
| 375 | 21 | 013 | 10 | 13 | 6.64 |
| 376 | 22 | 021 | 10 | 12 | 5.79 |
| 377 | 14 | 025 | 10 | 12 | 5.12 |
| 378 | 10 | 005 | 11 | 15 | 8.89 |
| 379 | 10 | 013 | 14 | 16 | 8.20 |
| 380 | 10 | 019 | 11 | 14 | 7.02 |
| 381 | 10 | 019 | 8 | 12 | 5.50 |
| 382 | 5 | 037 | 10 | 14 | 8.37 |
| 407 | 9 | 359 | 11 | 13 | 5.96 |
| 408 | 27 | 015 | 12 | 13 | 5.87 |
| 409 | 21 | 009 | 11 | 14 | 4.66 |
| 410 | 21 | 017 | 14 | 16 | 7.10 |
| 411 | 16 | 019 | 15 | 17 | 7.51 |
| 412 | 17 | 030 | 15 | 16 | 7.28 |
| 413 | 17 | 038 | 15 | 18 | 7.28 |
| 414 | 15 | 036 | 15 | 17 | 7.46 |
| 415 | 12 | 030 | 12 | 14 | 8.49 |
| 416 | 16 | 036 | 11 | 14 | 5.82 |
| 417 | 8 | 074 | 9 | 12 | 4.02 |
| 418 | 6 | 050 | 10 | 14 | 6.58 |
| 420 | 6 | 070 | 7 | 10 | 5.34 |
| 421 | 5 | 028 | 6 | 8 | 4.87 |
| 444 | 15 | 029 | 17 | 18 | 9.98 |
| 445 | 30 | 029 | 17 | 19 | 7.30 |
| 446 | 16 | 036 | 16 | 19 | 8.44 |
| 447 | 25 | 042 | 19 | 20 | 7.41 |
| 448 | 25 | 040 | 16 | 18 | 7.14 |
| 449 | 20 | 049 | 15 | 17 | 8.26 |
| 450 | 22 | 051 | 16 | 18 | 9.57 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 451 | 21 | 050 | 17 | 18 | 9.62 |
| 452 | 13 | 049 | 16 | 17 | 6.17 |
| 453 | 10 | 049 | 15 | 18 | 5.50 |
| 454 | 9 | 061 | 15 | 19 | 7.56 |
| 455 | 8 | 052 | 15 | 19 | 7.94 |
| 457 | 7 | 066 | 12 | 14 | 7.42 |
| 458 | 6 | 066 | 14 | 16 | 6.54 |
| 481 | 21 | 030 | 21 | 23 | 9.22 |
| 482 | 23 | 040 | 21 | 22 | 9.13 |
| 483 | 19 | 041 | 20 | 23 | 9.96 |
| 484 | 21 | 038 | 20 | 23 | 9.66 |
| 485 | 15 | 043 | 23 | 25 | 9.55 |
| 486 | 13 | 055 | 22 | 23 | 9.74 |
| 487 | 20 | 049 | 21 | 23 | 10.84 |
| 488 | 18 | 051 | 25 | 25 | 10.42 |
| 489 | 17 | 049 | 21 | 22 | 9.29 |
| 490 | 13 | 053 | 17 | 19 | 8.23 |
| 491 | 9 | 058 | 18 | 20 | 6.37 |
| 492 | 7 | 055 | 16 | 17 | 5.28 |
| 493 | 5 | 056 | 13 | 14 | 4.05 |
| 517 | 5 | 028 | 28 | 30 | 10.70 |
| 518 | 14 | 037 | 29 | 30 | 10.27 |
| 519 | 18 | 042 | 27 | 27 | 11.67 |
| 520 | 18 | 039 | 23 | 25 | 7.22 |
| 521 | 14 | 044 | 25 | 27 | 9.72 |
| 522 | 10 | 051 | 29 | 31 | 10.79 |
| 523 | 13 | 051 | 26 | 28 | 12.37 |
| 524 | 15 | 050 | 25 | 26 | 11.14 |
| 525 | 18 | 050 | 28 | 29 | 11.47 |
| 526 | 17 | 048 | 26 | 28 | 10.56 |
| 527 | 10 | 053 | 24 | 25 | 8.63 |
| 528 | 8 | 062 | 23 | 24 | 7.14 |
| 529 | 7 | 065 | 20 | 21 | 10.02 |
| 530 | 5 | 072 | 18 | 19 | 9.86 |
| 531 | 9 | 065 | 16 | 19 | 6.65 |
| 532 | 5 | 076 | 18 | 20 | 8.33 |
| 555 | 7 | 031 | 36 | 37 | 13.57 |
| 556 | 9 | 038 | 33 | 34 | 11.37 |
| 557 | 12 | 047 | 28 | 29 | 10.99 |
| 558 | 12 | 046 | 25 | 26 | 10.60 |
| 559 | 9 | 050 | 28 | 30 | 11.14 |
| 560 | 11 | 045 | 31 | 33 | 8.79 |
| 561 | 7 | 043 | 28 | 30 | 11.30 |
| 562 | 15 | 042 | 31 | 32 | 10.83 |
| 563 | 11 | 050 | 33 | 34 | 10.94 |
| 564 | 11 | 056 | 31 | 33 | 9.86 |
| 565 | 9 | 064 | 31 | 32 | 11.04 |
| 566 | 5 | 065 | 25 | 27 | 9.19 |
| 567 | 5 | 058 | 22 | 24 | 7.66 |
| 594 | 8 | 039 | 31 | 31 | 13.51 |
| 597 | 6 | 043 | 32 | 34 | 6.74 |
| 598 | 9 | 048 | 30 | 32 | 7.63 |
| 599 | 10 | 044 | 32 | 34 | 9.30 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 600 | 7 | 044 | 28 | 30 | 10.80 |
| 601 | 6 | 055 | 29 | 31 | 10.03 |
| 602 | 7 | 057 | 37 | 38 | 8.91 |
| 603 | 6 | 060 | 37 | 38 | 11.13 |
| 604 | 5 | 063 | 39 | 40 | 13.43 |
| 636 | 5 | 046 | 40 | 43 | 3.59 |


FREQUENCY
21 SEP - 30 NOV
≥ 64 KNOTS


MOTION
21 SEP - 30 NOV
≥ 64 KNOTS




| A | B | C | D | E | F |
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| 120 | 8 | 302 | 5 | 8 | 2.33 |
| 121 | 6 | 285 | 7 | 9 | 3.37 |
| 122 | 6 | 272 | 10 | 10 | 2.44 |
| 123 | 7 | 275 | 11 | 11 | 2.64 |
| 124 | 8 | 277 | 11 | 12 | 1.72 |
| 125 | 6 | 277 | 11 | 11 | 2.22 |
| 153 | 6 | 289 | 9 | 10 | 5.01 |
| 154 | 17 | 316 | 6 | 8 | 3.50 |
| 155 | 8 | 302 | 8 | 9 | 3.04 |
| 156 | 8 | 309 | 6 | 9 | 2.98 |
| 158 | 6 | 291 | 11 | 13 | 3.74 |
| 159 | 6 | 291 | 11 | 12 | 3.67 |
| 160 | 7 | 287 | 13 | 14 | 2.36 |
| 161 | 5 | 281 | 13 | 14 | 2.71 |
| 188 | 9 | 298 | 7 | 10 | 5.10 |
| 189 | 15 | 304 | 7 | 9 | 4.10 |
| 190 | 15 | 345 | 5 | 7 | 2.65 |
| 191 | 8 | 353 | 4 | 7 | 2.06 |
| 192 | 5 | 333 | 5 | 7 | 3.15 |
| 193 | 6 | 320 | 7 | 10 | 3.34 |
| 221 | 8 | 305 | 5 | 8 | 1.99 |
| 222 | 7 | 299 | 6 | 8 | 2.06 |
| 223 | 6 | 271 | 9 | 10 | 3.98 |
| 224 | 11 | 320 | 7 | 9 | 3.79 |
| 225 | 16 | 358 | 8 | 9 | 3.39 |
| 226 | 10 | 352 | 7 | 8 | 3.05 |
| 227 | 10 | 007 | 7 | 11 | 4.58 |
| 257 | 6 | 327 | 5 | 9 | 1.69 |
| 258 | 6 | 006 | 5 | 8 | 2.95 |
| 259 | 7 | 341 | 7 | 9 | 3.05 |
| 260 | 10 | 324 | 5 | 9 | 1.94 |
| 261 | 17 | 020 | 8 | 11 | 3.47 |
| 262 | 14 | 031 | 9 | 11 | 3.77 |
| 263 | 11 | 009 | 8 | 11 | 5.22 |
| 264 | 7 | 005 | 7 | 14 | 5.92 |
| 265 | 10 | 348 | 7 | 12 | 4.12 |
| 266 | 9 | 023 | 8 | 13 | 3.59 |
| 267 | 10 | 006 | 6 | 13 | 3.64 |
| 268 | 5 | 299 | 11 | 13 | 5.08 |
| 269 | 6 | 006 | 10 | 15 | 6.40 |
| 294 | 10 | 004 | 8 | 11 | 5.33 |
| 295 | 10 | 013 | 8 | 10 | 3.31 |
| 296 | 6 | 028 | 6 | 10 | 4.18 |
| 297 | 8 | 356 | 9 | 11 | 4.77 |
| 298 | 16 | 012 | 8 | 12 | 4.31 |
| 299 | 17 | 032 | 8 | 13 | 4.70 |
| 300 | 13 | 029 | 10 | 14 | 7.23 |
| 301 | 9 | 002 | 9 | 13 | 6.62 |
| 302 | 11 | 348 | 8 | 12 | 3.93 |
| 303 | 15 | 000 | 9 | 13 | 4.66 |
| 304 | 7 | 031 | 8 | 14 | 4.63 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 305 | 6 | 023 | 6 | 10 | 2.63 |
| 306 | 8 | 359 | 9 | 14 | 5.89 |
| 307 | 7 | 351 | 8 | 13 | 5.34 |
| 330 | 7 | 353 | 11 | 13 | 5.81 |
| 331 | 7 | 020 | 10 | 12 | 3.84 |
| 332 | 6 | 030 | 13 | 15 | 6.17 |
| 333 | 6 | 016 | 9 | 12 | 3.72 |
| 335 | 10 | 035 | 11 | 14 | 5.76 |
| 336 | 23 | 039 | 11 | 15 | 6.29 |
| 337 | 19 | 041 | 13 | 16 | 6.94 |
| 338 | 10 | 058 | 12 | 14 | 9.38 |
| 339 | 17 | 028 | 10 | 12 | 7.45 |
| 340 | 11 | 027 | 7 | 12 | 4.75 |
| 341 | 7 | 033 | 12 | 15 | 8.07 |
| 342 | 12 | 003 | 9 | 11 | 5.72 |
| 343 | 6 | 018 | 9 | 12 | 5.22 |
| 344 | 8 | 038 | 11 | 16 | 5.67 |
| 347 | 6 | 044 | 9 | 12 | 6.99 |
| 348 | 8 | 027 | 13 | 16 | 10.76 |
| 349 | 7 | 018 | 9 | 15 | 10.31 |
| 368 | 6 | 025 | 14 | 15 | 8.34 |
| 371 | 10 | 349 | 11 | 13 | 6.96 |
| 372 | 14 | 358 | 6 | 10 | 6.01 |
| 373 | 17 | 028 | 10 | 13 | 6.87 |
| 374 | 13 | 032 | 10 | 16 | 7.48 |
| 375 | 17 | 026 | 13 | 17 | 6.77 |
| 376 | 15 | 054 | 12 | 15 | 9.27 |
| 377 | 18 | 046 | 11 | 16 | 7.14 |
| 378 | 14 | 040 | 13 | 17 | 6.05 |
| 379 | 10 | 041 | 11 | 15 | 6.05 |
| 380 | 8 | 028 | 10 | 15 | 5.36 |
| 381 | 9 | 060 | 10 | 17 | 8.96 |
| 383 | 6 | 048 | 12 | 20 | 10.43 |
| 384 | 9 | 020 | 17 | 22 | 11.37 |
| 385 | 5 | 027 | 15 | 16 | 10.78 |
| 407 | 7 | 010 | 16 | 18 | 11.54 |
| 408 | 10 | 020 | 7 | 10 | 5.84 |
| 409 | 11 | 005 | 8 | 13 | 8.66 |
| 410 | 13 | 034 | 12 | 16 | 8.61 |
| 411 | 16 | 030 | 16 | 17 | 5.29 |
| 412 | 12 | 041 | 16 | 17 | 5.78 |
| 413 | 11 | 036 | 18 | 19 | 5.54 |
| 414 | 10 | 044 | 21 | 23 | 4.24 |
| 415 | 13 | 048 | 18 | 21 | 5.37 |
| 416 | 10 | 059 | 16 | 19 | 7.06 |
| 417 | 8 | 052 | 14 | 16 | 9.25 |
| 418 | 6 | 069 | 15 | 17 | 10.51 |
| 421 | 7 | 048 | 14 | 16 | 7.61 |
| 445 | 5 | 036 | 21 | 23 | 11.80 |
| 446 | 7 | 046 | 19 | 19 | 9.03 |
| 447 | 9 | 036 | 21 | 23 | 6.34 |
| 448 | 16 | 042 | 19 | 20 | 7.52 |
| 449 | 15 | 044 | 19 | 19 | 7.65 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 450 | 11 | 034 | 18 | 20 | 5.07 |
| 451 | 12 | 045 | 22 | 24 | 7.42 |
| 452 | 9 | 052 | 25 | 27 | 9.10 |
| 453 | 10 | 054 | 22 | 23 | 8.88 |
| 454 | 6 | 067 | 21 | 23 | 9.45 |
| 455 | 5 | 049 | 23 | 30 | 12.29 |
| 456 | 7 | 056 | 19 | 24 | 12.60 |
| 458 | 8 | 064 | 19 | 20 | 9.29 |
| 459 | 6 | 058 | 22 | 22 | 7.57 |
| 460 | 5 | 062 | 20 | 21 | 6.94 |
| 483 | 9 | 045 | 24 | 25 | 8.72 |
| 484 | 12 | 042 | 26 | 27 | 11.21 |
| 485 | 15 | 042 | 24 | 26 | 10.09 |
| 486 | 16 | 036 | 21 | 23 | 8.08 |
| 487 | 9 | 049 | 23 | 23 | 11.28 |
| 488 | 8 | 048 | 22 | 23 | 8.09 |
| 489 | 7 | 049 | 28 | 29 | 9.49 |
| 490 | 6 | 052 | 30 | 30 | 8.58 |
| 491 | 5 | 048 | 29 | 31 | 7.00 |
| 492 | 6 | 026 | 23 | 25 | 14.70 |
| 520 | 9 | 027 | 24 | 27 | 11.63 |
| 521 | 11 | 040 | 30 | 33 | 12.13 |
| 522 | 13 | 040 | 30 | 32 | 11.22 |
| 523 | 11 | 050 | 30 | 31 | 14.26 |
| 524 | 9 | 059 | 26 | 27 | 14.80 |
| 525 | 12 | 061 | 25 | 26 | 13.21 |
| 526 | 10 | 056 | 22 | 23 | 13.57 |
| 527 | 5 | 057 | 32 | 34 | 13.24 |
| 528 | 7 | 052 | 28 | 29 | 11.30 |
| 557 | 6 | 036 | 21 | 22 | 10.07 |
| 558 | 6 | 028 | 28 | 29 | 12.04 |
| 559 | 9 | 045 | 31 | 34 | 14.39 |
| 560 | 7 | 052 | 40 | 43 | 17.62 |
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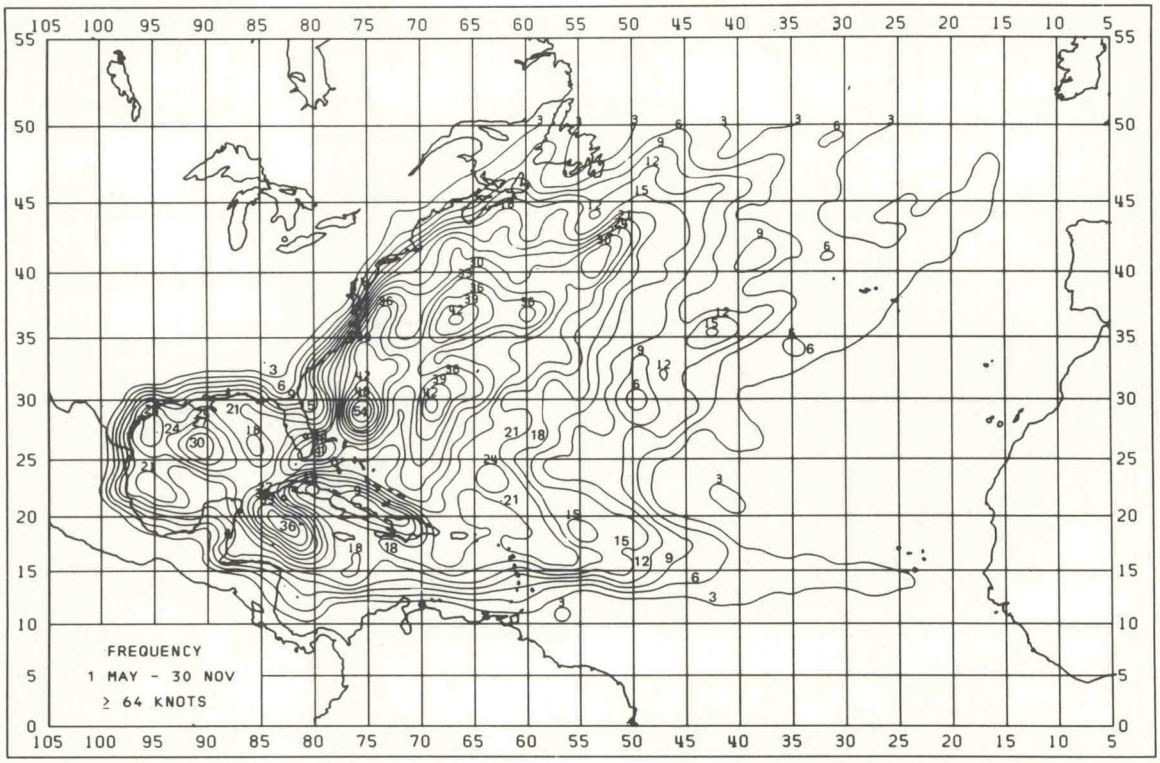
| 563 | 6 | 060 | 28 | 28 | 14.31 |
| 564 | 5 | 068 | 35 | 36 | 10.99 |


FREQUENCY
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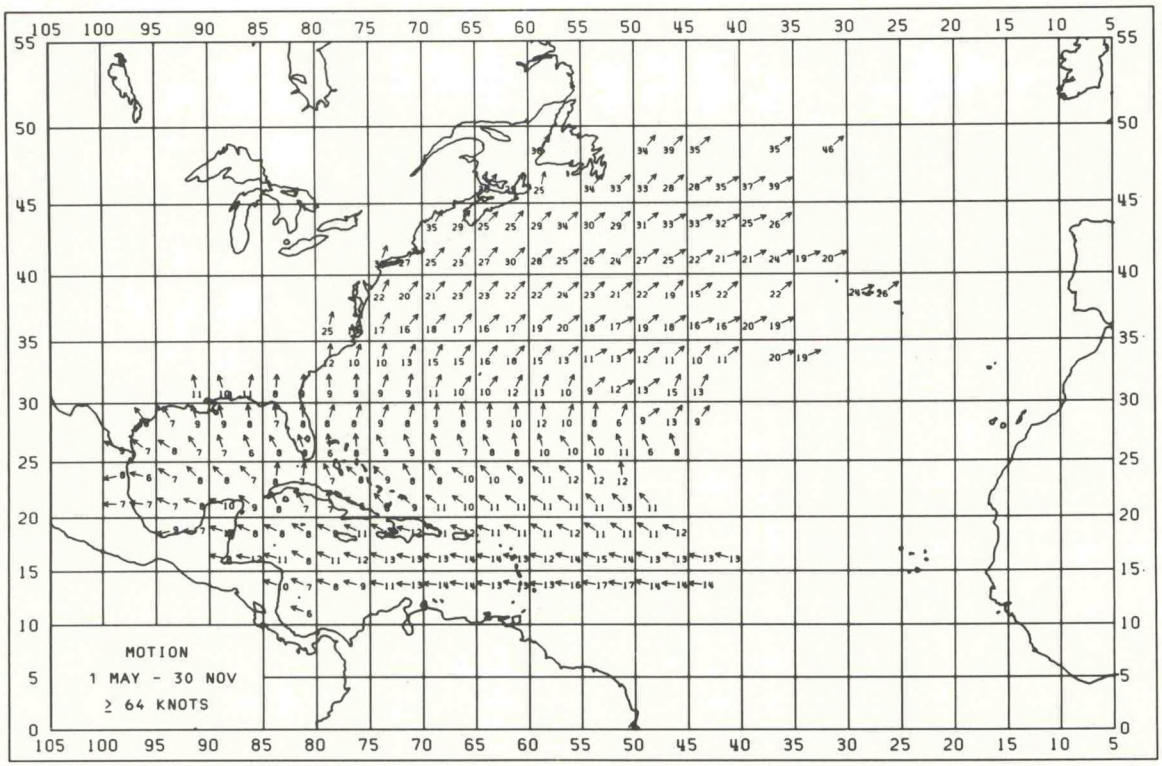
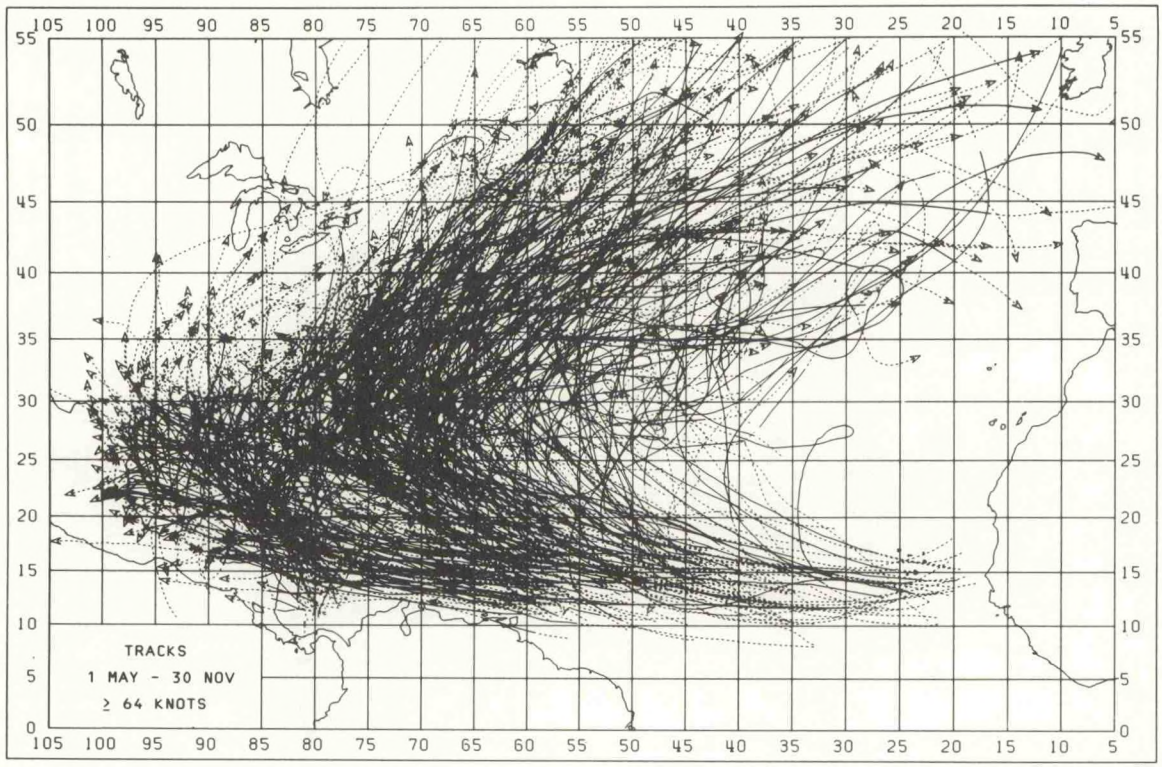
≥ 64 KNOTS


MOTION
1 MAY - 30 NOV
≥ 64 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
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| 117 | 7 | 289 | 10 | 11 | 4.32 |
| 118 | 11 | 296 | 7 | 9 | 5.28 |
| 119 | 13 | 291 | 8 | 10 | 5.21 |
| 120 | 15 | 285 | 9 | 11 | 4.99 |
| 121 | 11 | 282 | 11 | 12 | 4.56 |
| 122 | 11 | 274 | 13 | 13 | 4.90 |
| 123 | 13 | 275 | 14 | 14 | 4.57 |
| 124 | 15 | 280 | 14 | 14 | 3.90 |
| 125 | 15 | 279 | 13 | 14 | 4.54 |
| 126 | 9 | 283 | 13 | 13 | 2.58 |
| 127 | 7 | 275 | 13 | 14 | 1.63 |
| 128 | 6 | 278 | 16 | 17 | 5.42 |
| 129 | 7 | 280 | 17 | 17 | 5.03 |
| 130 | 12 | 280 | 17 | 17 | 4.22 |
| 131 | 9 | 286 | 14 | 15 | 4.00 |
| 132 | 6 | 275 | 14 | 15 | 3.41 |
| 133 | 6 | 275 | 14 | 14 | 2.58 |
| 151 | 12 | 283 | 8 | 10 | 3.19 |
| 152 | 15 | 280 | 12 | 12 | 4.06 |
| 153 | 16 | 287 | 11 | 12 | 4.58 |
| 154 | 25 | 302 | 8 | 10 | 4.45 |
| 155 | 20 | 295 | 11 | 12 | 4.84 |
| 156 | 18 | 291 | 12 | 13 | 5.62 |
| 157 | 15 | 289 | 13 | 15 | 4.81 |
| 158 | 19 | 284 | 13 | 14 | 3.74 |
| 159 | 22 | 282 | 13 | 14 | 3.78 |
| 160 | 21 | 284 | 14 | 14 | 3.83 |
| 161 | 20 | 281 | 14 | 14 | 3.99 |
| 162 | 19 | 283 | 13 | 13 | 4.06 |
| 163 | 21 | 283 | 12 | 13 | 3.86 |
| 164 | 23 | 286 | 14 | 15 | 5.59 |
| 165 | 18 | 287 | 15 | 16 | 6.15 |
| 166 | 15 | 286 | 14 | 14 | 6.00 |
| 167 | 12 | 290 | 13 | 14 | 5.16 |
| 168 | 10 | 288 | 13 | 14 | 4.72 |
| 169 | 8 | 282 | 13 | 13 | 2.82 |
| 170 | 6 | 286 | 13 | 13 | 3.18 |
| 185 | 5 | 256 | 9 | 10 | 4.64 |
| 186 | 7 | 271 | 7 | 8 | 5.14 |
| 187 | 9 | 289 | 10 | 11 | 5.55 |
| 188 | 21 | 296 | 8 | 10 | 4.23 |
| 189 | 31 | 298 | 8 | 10 | 4.12 |
| 190 | 37 | 303 | 8 | 10 | 4.30 |
| 191 | 18 | 297 | 9 | 12 | 5.48 |
| 192 | 16 | 296 | 11 | 13 | 5.10 |
| 193 | 14 | 299 | 10 | 12 | 3.68 |
| 194 | 9 | 286 | 12 | 12 | 2.58 |
| 195 | 22 | 296 | 11 | 12 | 3.40 |
| 196 | 23 | 293 | 12 | 13 | 2.84 |
| 197 | 22 | 290 | 11 | 12 | 3.35 |
| 198 | 21 | 295 | 11 | 12 | 3.26 |
| 199 | 22 | 299 | 11 | 12 | 3.37 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 200 | 16 | 297 | 12 | 12 | 2.79 |
| 201 | 15 | 305 | 11 | 12 | 3.70 |
| 202 | 15 | 303 | 11 | 12 | 4.18 |
| 203 | 15 | 305 | 11 | 12 | 4.24 |
| 204 | 9 | 292 | 12 | 13 | 7.04 |
| 219 | 7 | 271 | 7 | 8 | 3.02 |
| 220 | 14 | 277 | 7 | 9 | 3.71 |
| 221 | 20 | 296 | 7 | 8 | 2.48 |
| 222 | 16 | 292 | 8 | 9 | 2.78 |
| 223 | 18 | 290 | 10 | 11 | 3.10 |
| 224 | 26 | 309 | 9 | 10 | 3.49 |
| 225 | 31 | 336 | 8 | 10 | 3.43 |
| 226 | 16 | 332 | 7 | 10 | 3.68 |
| 227 | 13 | 353 | 7 | 11 | 4.30 |
| 228 | 8 | 296 | 6 | 9 | 4.53 |
| 229 | 13 | 319 | 6 | 11 | 3.13 |
| 230 | 24 | 312 | 9 | 11 | 4.55 |
| 231 | 26 | 309 | 11 | 12 | 4.79 |
| 232 | 21 | 306 | 10 | 12 | 5.04 |
| 233 | 20 | 307 | 11 | 12 | 3.89 |
| 234 | 23 | 306 | 11 | 12 | 4.08 |
| 235 | 20 | 303 | 11 | 12 | 4.60 |
| 236 | 16 | 305 | 11 | 12 | 3.58 |
| 237 | 16 | 316 | 11 | 13 | 4.95 |
| 238 | 12 | 314 | 13 | 14 | 5.45 |
| 239 | 6 | 319 | 11 | 12 | 3.25 |
| 255 | 8 | 258 | 8 | 9 | 3.46 |
| 256 | 21 | 285 | 6 | 8 | 2.40 |
| 257 | 18 | 305 | 7 | 10 | 4.40 |
| 258 | 18 | 317 | 8 | 11 | 4.62 |
| 259 | 22 | 316 | 8 | 10 | 3.31 |
| 260 | 23 | 318 | 7 | 9 | 2.02 |
| 261 | 24 | 005 | 8 | 10 | 3.35 |
| 262 | 23 | 006 | 7 | 11 | 3.52 |
| 263 | 22 | 336 | 7 | 10 | 4.32 |
| 264 | 23 | 313 | 8 | 12 | 4.56 |
| 265 | 27 | 314 | 9 | 11 | 3.85 |
| 266 | 32 | 332 | 8 | 11 | 3.85 |
| 267 | 30 | 328 | 8 | 12 | 4.27 |
| 268 | 24 | 306 | 10 | 11 | 4.53 |
| 269 | 25 | 318 | 10 | 13 | 4.77 |
| 270 | 22 | 318 | 9 | 11 | 4.54 |
| 271 | 13 | 312 | 11 | 12 | 4.81 |
| 272 | 10 | 316 | 12 | 13 | 3.20 |
| 273 | 11 | 326 | 12 | 14 | 5.56 |
| 274 | 9 | 355 | 12 | 15 | 5.37 |
| 291 | 7 | 299 | 9 | 10 | 3.37 |
| 292 | 23 | 308 | 7 | 9 | 3.72 |
| 293 | 23 | 304 | 8 | 10 | 3.75 |
| 294 | 31 | 328 | 7 | 10 | 3.98 |
| 295 | 26 | 341 | 7 | 10 | 3.08 |
| 296 | 17 | 338 | 6 | 10 | 3.57 |
| 297 | 22 | 332 | 8 | 10 | 3.98 |

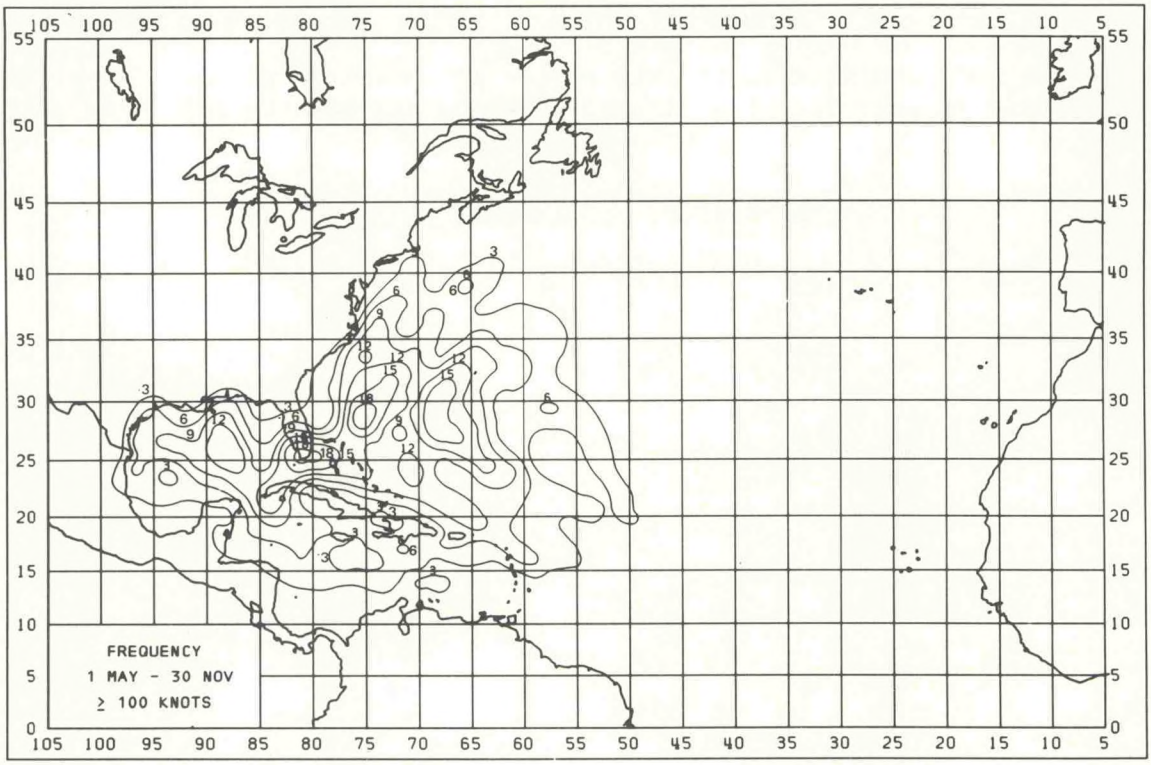
| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 298 | 31 | 341 | 8 | 11 | 3.58 |
| 299 | 36 | 352 | 6 | 11 | 4.11 |
| 300 | 31 | 357 | 8 | 11 | 6.10 |
| 301 | 30 | 333 | 9 | 11 | 4.76 |
| 302 | 32 | 337 | 9 | 12 | 3.66 |
| 303 | 35 | 343 | 8 | 11 | 4.57 |
| 304 | 26 | 338 | 7 | 11 | 4.77 |
| 305 | 22 | 334 | 8 | 10 | 4.23 |
| 306 | 19 | 350 | 8 | 13 | 4.74 |
| 307 | 19 | 342 | 10 | 14 | 5.18 |
| 308 | 14 | 322 | 10 | 13 | 4.11 |
| 309 | 10 | 329 | 10 | 12 | 4.26 |
| 310 | 9 | 338 | 11 | 14 | 4.98 |
| 311 | 7 | 336 | 6 | 12 | 6.51 |
| 312 | 6 | 340 | 8 | 16 | 7.07 |
| 328 | 21 | 324 | 8 | 10 | 4.14 |
| 329 | 21 | 330 | 7 | 9 | 4.53 |
| 330 | 23 | 343 | 9 | 11 | 4.99 |
| 331 | 20 | 346 | 9 | 11 | 4.29 |
| 332 | 21 | 354 | 8 | 11 | 5.45 |
| 333 | 21 | 354 | 7 | 10 | 3.45 |
| 334 | 20 | 357 | 8 | 11 | 4.03 |
| 335 | 22 | 017 | 8 | 12 | 4.97 |
| 336 | 53 | 016 | 8 | 11 | 5.82 |
| 337 | 42 | 020 | 9 | 13 | 6.17 |
| 338 | 30 | 015 | 8 | 13 | 6.31 |
| 339 | 43 | 003 | 9 | 12 | 5.55 |
| 340 | 29 | 354 | 8 | 12 | 4.42 |
| 341 | 24 | 001 | 9 | 13 | 5.48 |
| 342 | 24 | 000 | 10 | 13 | 5.45 |
| 343 | 18 | 006 | 12 | 15 | 7.09 |
| 344 | 16 | 017 | 10 | 15 | 6.72 |
| 345 | 14 | 003 | 8 | 13 | 6.26 |
| 346 | 9 | 019 | 6 | 11 | 4.21 |
| 347 | 8 | 053 | 9 | 12 | 6.33 |
| 348 | 11 | 031 | 13 | 16 | 9.29 |
| 349 | 8 | 036 | 9 | 16 | 9.43 |
| 366 | 10 | 349 | 11 | 13 | 3.85 |
| 367 | 11 | 343 | 10 | 11 | 3.77 |
| 368 | 11 | 011 | 11 | 13 | 7.14 |
| 369 | 6 | 003 | 8 | 10 | 4.27 |
| 370 | 10 | 004 | 9 | 13 | 3.68 |
| 371 | 27 | 357 | 9 | 12 | 5.89 |
| 372 | 40 | 000 | 9 | 11 | 4.73 |
| 373 | 40 | 019 | 9 | 12 | 5.88 |
| 374 | 34 | 009 | 9 | 14 | 6.75 |
| 375 | 38 | 020 | 11 | 15 | 6.79 |
| 376 | 38 | 036 | 10 | 13 | 7.47 |
| 377 | 33 | 037 | 10 | 14 | 6.41 |
| 378 | 24 | 027 | 12 | 16 | 7.26 |
| 379 | 19 | 026 | 13 | 16 | 7.09 |
| 380 | 17 | 023 | 10 | 15 | 6.12 |
| 381 | 17 | 047 | 9 | 15 | 7.72 |

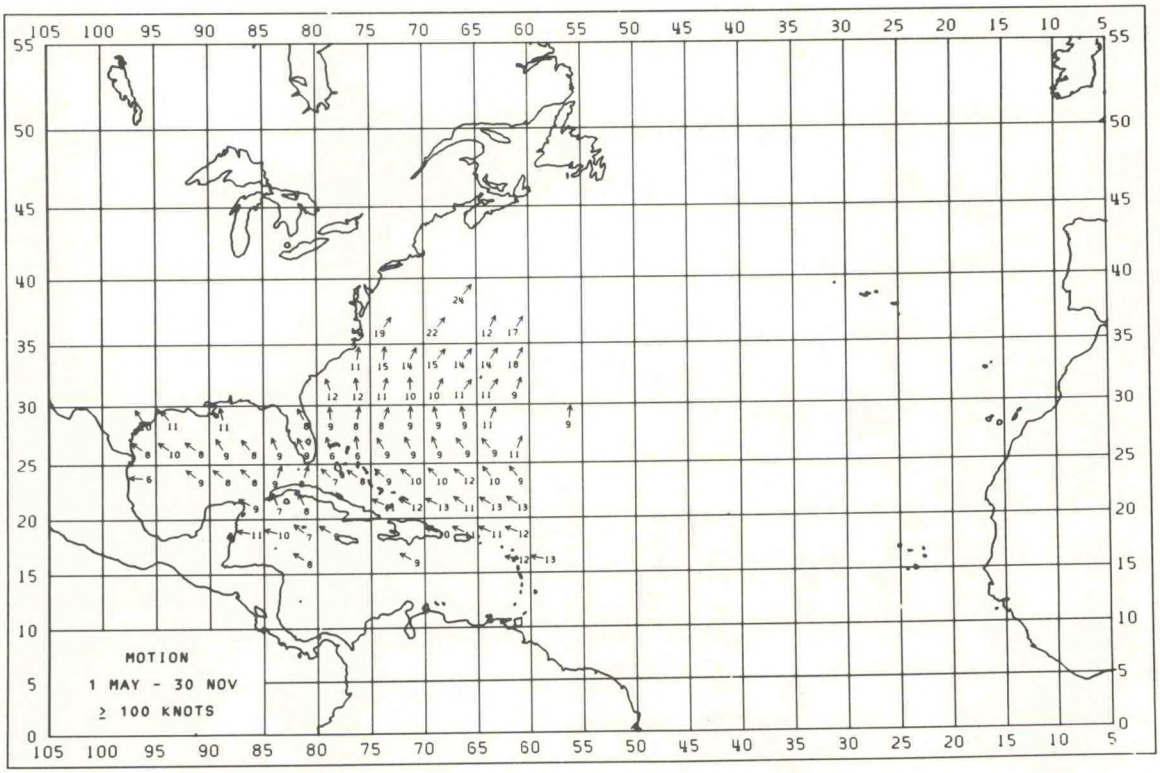
| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 382 | 10 | 064 | 12 | 17 | 10.40 |
| 383 | 8 | 055 | 13 | 20 | 9.38 |
| 384 | 12 | 023 | 15 | 20 | 11.09 |
| 385 | 6 | 028 | 13 | 14 | 10.88 |
| 407 | 18 | 005 | 12 | 14 | 8.39 |
| 408 | 39 | 017 | 10 | 12 | 5.78 |
| 409 | 37 | 011 | 10 | 13 | 5.91 |
| 410 | 35 | 024 | 13 | 16 | 7.42 |
| 411 | 33 | 026 | 15 | 17 | 6.28 |
| 412 | 30 | 034 | 15 | 17 | 6.60 |
| 413 | 29 | 037 | 16 | 18 | 6.67 |
| 414 | 25 | 039 | 18 | 19 | 6.89 |
| 415 | 25 | 041 | 15 | 17 | 7.64 |
| 416 | 25 | 047 | 13 | 15 | 6.64 |
| 417 | 16 | 061 | 11 | 14 | 7.15 |
| 418 | 12 | 061 | 13 | 16 | 8.44 |
| 419 | 9 | 054 | 12 | 17 | 11.37 |
| 420 | 11 | 045 | 11 | 15 | 9.41 |
| 421 | 12 | 039 | 10 | 12 | 7.65 |
| 422 | 6 | 050 | 11 | 13 | 8.05 |
| 424 | 5 | 071 | 20 | 22 | 9.39 |
| 425 | 7 | 067 | 19 | 22 | 10.38 |
| 443 | 5 | 014 | 25 | 26 | 11.75 |
| 444 | 17 | 026 | 16 | 18 | 10.21 |
| 445 | 39 | 030 | 17 | 18 | 8.29 |
| 446 | 25 | 042 | 16 | 18 | 8.38 |
| 447 | 38 | 043 | 18 | 20 | 7.49 |
| 448 | 45 | 042 | 17 | 18 | 7.28 |
| 449 | 37 | 048 | 16 | 18 | 7.77 |
| 450 | 34 | 047 | 17 | 19 | 8.17 |
| 451 | 34 | 049 | 19 | 20 | 8.97 |
| 452 | 24 | 053 | 20 | 21 | 8.44 |
| 453 | 20 | 052 | 18 | 21 | 7.62 |
| 454 | 16 | 064 | 17 | 20 | 8.20 |
| 455 | 13 | 051 | 19 | 23 | 10.83 |
| 456 | 11 | 055 | 18 | 22 | 11.70 |
| 457 | 11 | 070 | 16 | 18 | 9.77 |
| 458 | 14 | 065 | 16 | 18 | 8.09 |
| 459 | 10 | 063 | 20 | 21 | 6.42 |
| 460 | 7 | 067 | 19 | 20 | 5.97 |
| 481 | 23 | 027 | 22 | 24 | 9.75 |
| 482 | 27 | 040 | 20 | 22 | 9.25 |
| 483 | 27 | 042 | 21 | 23 | 9.39 |
| 484 | 36 | 041 | 23 | 25 | 10.99 |
| 485 | 33 | 042 | 23 | 25 | 9.71 |
| 486 | 28 | 044 | 22 | 24 | 8.17 |
| 487 | 29 | 049 | 22 | 23 | 10.72 |
| 488 | 26 | 050 | 24 | 25 | 9.68 |
| 489 | 25 | 048 | 23 | 24 | 9.46 |
| 490 | 19 | 052 | 21 | 22 | 9.81 |
| 491 | 14 | 053 | 22 | 24 | 8.47 |
| 492 | 12 | 040 | 19 | 21 | 10.78 |
| 493 | 9 | 056 | 15 | 16 | 11.01 |

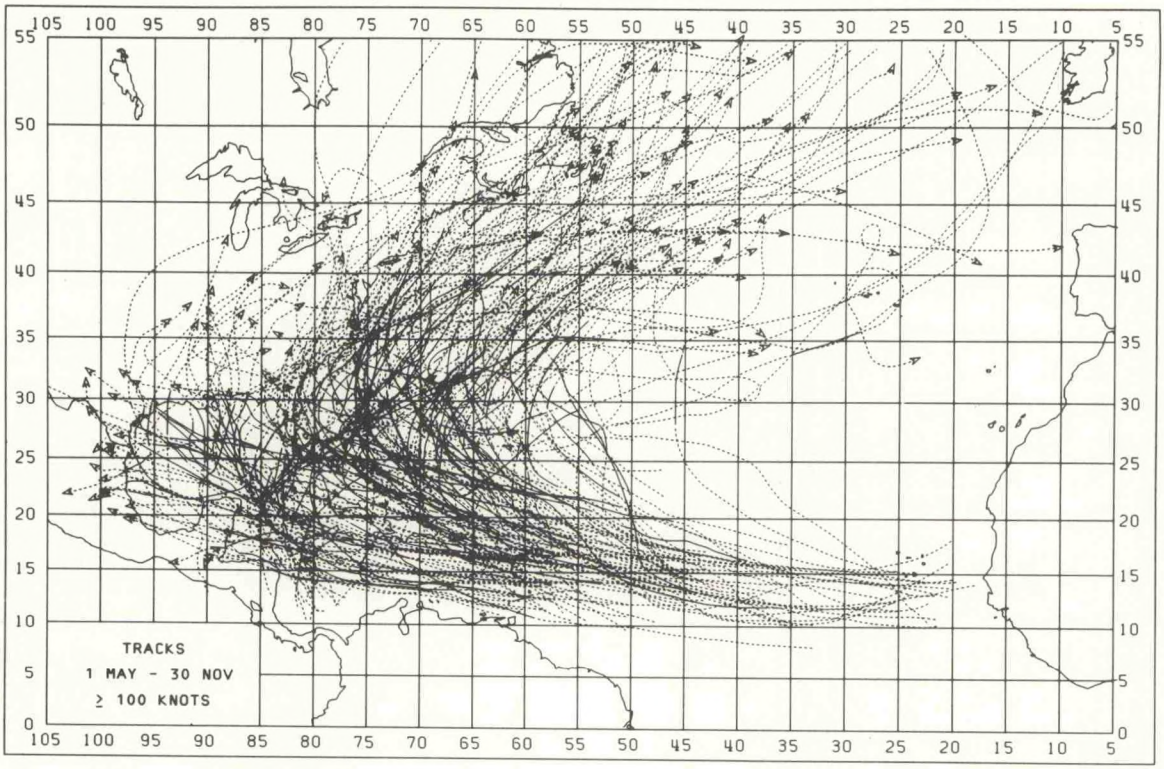
| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 494 | 6 | 050 | 22 | 22 | 14.08 |
| 496 | 5 | 051 | 22 | 22 | 9.22 |
| 499 | 5 | 070 | 24 | 27 | 14.47 |
| 500 | 6 | 052 | 26 | 27 | 14.77 |
| 517 | 7 | 020 | 30 | 32 | 11.27 |
| 518 | 16 | 036 | 27 | 28 | 11.91 |
| 519 | 22 | 041 | 25 | 26 | 11.83 |
| 520 | 28 | 035 | 23 | 25 | 8.76 |
| 521 | 27 | 041 | 27 | 29 | 10.68 |
| 522 | 24 | 044 | 30 | 32 | 10.08 |
| 523 | 24 | 051 | 28 | 29 | 13.01 |
| 524 | 24 | 054 | 25 | 27 | 12.32 |
| 525 | 31 | 053 | 26 | 28 | 11.94 |
| 526 | 27 | 051 | 24 | 26 | 11.61 |
| 527 | 16 | 055 | 27 | 28 | 10.64 |
| 528 | 15 | 057 | 25 | 27 | 9.12 |
| 529 | 12 | 061 | 22 | 23 | 13.65 |
| 530 | 7 | 070 | 21 | 22 | 13.46 |
| 531 | 11 | 063 | 21 | 24 | 10.53 |
| 532 | 8 | 064 | 24 | 26 | 12.73 |
| 533 | 6 | 070 | 19 | 21 | 11.49 |
| 534 | 6 | 068 | 20 | 22 | 12.98 |
| 555 | 7 | 030 | 35 | 35 | 14.54 |
| 556 | 14 | 036 | 29 | 30 | 12.39 |
| 557 | 18 | 044 | 25 | 26 | 10.79 |
| 558 | 20 | 038 | 25 | 27 | 10.48 |
| 559 | 19 | 047 | 29 | 31 | 12.55 |
| 560 | 18 | 048 | 34 | 37 | 13.49 |
| 561 | 11 | 052 | 30 | 33 | 11.75 |
| 562 | 20 | 044 | 29 | 31 | 11.68 |
| 563 | 17 | 053 | 31 | 32 | 12.04 |
| 564 | 16 | 060 | 33 | 34 | 9.92 |
| 565 | 12 | 065 | 33 | 34 | 10.66 |
| 566 | 9 | 064 | 32 | 34 | 11.70 |
| 567 | 7 | 068 | 25 | 28 | 10.92 |
| 568 | 5 | 055 | 26 | 27 | 8.53 |
| 593 | 5 | 038 | 36 | 37 | 13.55 |
| 594 | 11 | 039 | 29 | 30 | 12.36 |
| 595 | 6 | 017 | 25 | 26 | 10.95 |
| 597 | 8 | 043 | 34 | 36 | 8.73 |
| 598 | 11 | 046 | 33 | 34 | 9.68 |
| 599 | 13 | 043 | 33 | 35 | 9.89 |
| 600 | 10 | 048 | 28 | 30 | 9.84 |
| 601 | 11 | 060 | 28 | 30 | 8.80 |
| 602 | 12 | 059 | 35 | 37 | 10.01 |
| 603 | 9 | 060 | 37 | 38 | 9.88 |
| 604 | 5 | 062 | 39 | 40 | 13.24 |
| 631 | 6 | 041 | 30 | 31 | 11.99 |
| 635 | 6 | 039 | 34 | 36 | 13.19 |
| 636 | 8 | 043 | 39 | 41 | 10.46 |
| 637 | 6 | 048 | 35 | 36 | 7.35 |
| 640 | 5 | 052 | 35 | 36 | 12.54 |
| 642 | 6 | 048 | 46 | 49 | 15.10 |

## A.5 Chart Series C

Charts and tabular data in this series are based on portions of storm tracks having intensities of at least 100 knots and for the following periods:


FREQUENCY
1 MAY - 30 NOV
≥ 100 KNOTS


MOTION
1 MAY - 30 NOV
≥ 100 KNOTS




| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 154 | 6 | 304 | 8 | 11 | 5.69 |
| 158 | 5 | 300 | 9 | 11 | 2.18 |
| 162 | 6 | 280 | 12 | 13 | 4.64 |
| 163 | 6 | 281 | 13 | 14 | 4.04 |
| 188 | 7 | 281 | 11 | 11 | 5.09 |
| 189 | 9 | 286 | 10 | 10 | 4.44 |
| 190 | 7 | 310 | 7 | 8 | 3.57 |
| 191 | 6 | 302 | 9 | 10 | 4.19 |
| 195 | 5 | 291 | 10 | 10 | 2.02 |
| 196 | 7 | 295 | 11 | 12 | 3.77 |
| 197 | 10 | 293 | 11 | 11 | 2.56 |
| 198 | 6 | 291 | 12 | 13 | 3.08 |
| 224 | 7 | 301 | 9 | 11 | 3.68 |
| 225 | 15 | 340 | 7 | 10 | 3.35 |
| 226 | 6 | 336 | 8 | 10 | 3.45 |
| 229 | 6 | 296 | 11 | 11 | 2.91 |
| 230 | 7 | 296 | 12 | 12 | 3.50 |
| 231 | 10 | 298 | 13 | 13 | 4.94 |
| 232 | 12 | 307 | 11 | 13 | 5.50 |
| 233 | 6 | 302 | 13 | 13 | 4.93 |
| 234 | 7 | 305 | 13 | 14 | 5.29 |
| 256 | 6 | 274 | 6 | 7 | 2.04 |
| 258 | 7 | 312 | 9 | 11 | 5.21 |
| 259 | 10 | 312 | 8 | 10 | 2.91 |
| 260 | 11 | 316 | 8 | 9 | 1.72 |
| 261 | 12 | 017 | 9 | 11 | 3.14 |
| 262 | 13 | 017 | 8 | 11 | 3.32 |
| 263 | 12 | 316 | 7 | 9 | 4.06 |
| 264 | 13 | 308 | 8 | 10 | 3.62 |
| 265 | 11 | 314 | 9 | 12 | 3.50 |
| 266 | 13 | 311 | 10 | 10 | 3.82 |
| 267 | 10 | 316 | 10 | 11 | 4.28 |
| 268 | 7 | 310 | 12 | 12 | 4.58 |
| 269 | 12 | 324 | 10 | 14 | 5.72 |
| 270 | 10 | 325 | 9 | 12 | 5.88 |
| 292 | 8 | 306 | 8 | 10 | 4.97 |
| 293 | 9 | 306 | 10 | 11 | 4.57 |
| 294 | 10 | 307 | 8 | 9 | 2.51 |
| 295 | 15 | 329 | 9 | 11 | 2.23 |
| 296 | 8 | 321 | 8 | 10 | 2.96 |
| 297 | 8 | 337 | 9 | 12 | 3.93 |
| 298 | 17 | 332 | 9 | 12 | 3.81 |
| 299 | 16 | 342 | 6 | 12 | 5.25 |
| 300 | 13 | 354 | 6 | 11 | 5.84 |
| 301 | 12 | 329 | 9 | 10 | 2.72 |
| 302 | 10 | 335 | 9 | 11 | 3.29 |
| 303 | 14 | 338 | 9 | 10 | 3.47 |
| 304 | 15 | 324 | 9 | 10 | 4.60 |
| 305 | 10 | 319 | 9 | 10 | 4.83 |
| 306 | 5 | 022 | 11 | 12 | 7.47 |
| 328 | 6 | 328 | 10 | 11 | 5.83 |
| 329 | 5 | 322 | 11 | 12 | 2.33 |
| 331 | 10 | 348 | 11 | 12 | 3.29 |

| A | B | C | D | E | F |
|---|---|---|---|---|---|
| 334 | 6 | 334 | 8 | 10 | 3.13 |
| 335 | 5 | 356 | 9 | 12 | 5.80 |
| 336 | 18 | 007 | 8 | 12 | 6.30 |
| 337 | 17 | 019 | 8 | 13 | 6.62 |
| 338 | 12 | 000 | 9 | 14 | 5.86 |
| 339 | 17 | 346 | 9 | 11 | 4.00 |
| 340 | 13 | 351 | 9 | 12 | 4.99 |
| 341 | 9 | 021 | 11 | 15 | 7.39 |
| 344 | 5 | 006 | 9 | 15 | 6.86 |
| 371 | 6 | 341 | 12 | 13 | 8.96 |
| 372 | 13 | 354 | 12 | 13 | 5.35 |
| 373 | 14 | 013 | 11 | 12 | 6.73 |
| 374 | 12 | 358 | 10 | 13 | 6.73 |
| 375 | 13 | 025 | 10 | 14 | 6.50 |
| 376 | 15 | 036 | 11 | 13 | 7.75 |
| 377 | 8 | 034 | 11 | 13 | 7.32 |
| 378 | 6 | 017 | 9 | 11 | 6.52 |
| 408 | 11 | 009 | 11 | 13 | 4.40 |
| 409 | 11 | 004 | 15 | 17 | 6.88 |
| 410 | 10 | 026 | 14 | 17 | 10.41 |
| 411 | 7 | 039 | 15 | 15 | 7.62 |
| 412 | 9 | 038 | 14 | 15 | 4.12 |
| 413 | 10 | 035 | 14 | 15 | 4.38 |
| 414 | 6 | 030 | 18 | 18 | 8.18 |
| 445 | 10 | 034 | 19 | 20 | 6.98 |
| 447 | 7 | 039 | 22 | 22 | 6.04 |
| 449 | 5 | 025 | 12 | 12 | 2.94 |
| 450 | 5 | 032 | 17 | 17 | 5.50 |
| 484 | 6 | 039 | 24 | 25 | 13.38 |

(Continued from inside front cover)

NWS 16 Storm Tide Frequencies on the South Carolina Coast. Vance A. Myers, June 1975, 79 p. (COM-75-11335)

NWS 17 Estimation of Hurricane Storm Surge in Apalachicola Bay, Florida. James E. Overland, June 1975. 66 p. (COM-75-11332)

NWS 18 Joint Probability Method of Tide Frequency Analysis Applied to Apalachicola Bay and St. George Sound, Florida. Francis P. Ho and Vance A. Myers, November 1975, 43 p. (PB-251123)

NWS 19 A Point Energy and Mass Balance Model of a Snow Cover. Eric A. Anderson, February 1976, 150 p. (PB-254653)

NWS 20 Precipitable Water Over the United States, Volume 1: Monthly Means. George A. Lott, November 1976, 173 p. (PB-264219)

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NWS 22 The Nested Grid Model. Norman A. Phillips, April 1979, 89 p. (PB-299046)

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NWS 24 A Methodology for Point-to-Area Rainfall Frequency Ratios. Vance A. Myers and Raymond M. Zehr, February 1980, 180 p. (PB80 180102)

NWS 25 Comparison of Generalized Estimates of Probable Maximum Precipitation With Greatest Observed Rainfalls. John T. Riedel and Louis C. Schreiner, March 1980, 75 p. (PB80 191463)

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