AUG 29 1993

Form E-6

## HRD Omega-Dropwindsonde Scientist Log



Flight 930829I

Storm EMILY

ODW Scientists FRANKLIN
BURPEE

AOC Operator

1943082911-DROPS

| Drop No. | Sonde ID No. | Time GMT | Lat. (°) | Long. (°) | Wind (m/s) (WD/WS) kts | Height (GA) | Temp. (TA) | Dew Pt. (TD) | Pressure (PS) | Remarks | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | 20092 | 221703 | 37 02 | 68 28 | 012/12 | 6109 | -7.3 | -19.2 | 484.0 | 1021 SPL | ✓ |
| 12 | 00037 | 223552 | 38 32 | 68 25 | 300/17 | 6432 | -8.7 | -22.3 | 464.3 | BAD | X |
| 13 | 20095 | 225142 | 40 01 | 68 28 | 279/38 | 6418 | -9.6 | -18.7 | 464.4 | | ✓ |
| 14 | 01456 | 232548 | 39 57 | 71 24 | 284/32 | 7087 | -13.8 | -24.3 | 426.0 | | ✓ |
| 15 | 20133 | 234331 | 38 30 | 71 03 | 287/16 | 7099 | -13.8 | -23.9 | 426.1 | | ✓ |
| 15a | LOD2 | 234405 | 38 27 | 71 03 | 288/15 | 7098 | -14.0 | -23.6 | 426.1 | LOD2 -GOOD | LOD2 |
| 16 | 02626 | 000107 | 36°59' | 71°09 | 3/19 | 7419 | -15.2 | -28.2 | 408.4 | BAD T | ✓ |
| 17 | 20132 | 001815 | 35°29' | 71°14' | 50/22 | 7429 | -15.2 | -33.0 | 408.3 | BAD T | ✓ |
| 18 | 03313 | 003642 | 33 59 | 71 30 | 071/18 | 7753 | -17.4 | -32.6 | 390.3 | | ✓ |
| 19 | 21306 | 005434 | 33 56 | 73 25 | 081/24 | 7749 | -17.4 | -34.8 | 391.1 | Press offset 35mb T BAD | ✓ |
| 20 | 2660 | 011405 | 32 43 | 74 54 | 072/11 | 7741 | -18.8 | -35.6 | 391.2 | | ✓ |
| 21 | 22922 | 013403 | 31 31 | 76 23 | 040/07 | 8072 | -21.5 | -37.0 | 374.1 | Pres offset | ✓ |
| 22 | 2629 | 015041 | 30°30' | 77°46 | 078/7 | 8063 | -21.5 | -37.8 | 374.0 | | ✓ |
| | | | | | | | | | | | |

## E.6 Omega Dropwindsonde Scientist (On-Board)

The on-board lead project scientist (LPS) on each aircraft is responsible for determining the distribution patterns for ODW releases. Predetermined desired data collection patterns are illustrated on the flight patterns. However, these patterns often are required to be altered because of clearance problems, etc. Operational procedures are contained in the operator's manual. The following list contains more general supplementary procedures to be followed. (Check off and initial.)

### E.6.1 Preflight

_____ 1. Determine the status of equipment and report results to the on-board LPS.

_____ 2. Confirm the mission and pattern selection from the LPS and assure that the proper number and distribution (frequency) of ODW's are on board the aircraft.

_____ 3. Complete the appropriate preflight calibrations and check lists.

### E.6.2 In-Flight

_____ 1. Operate the system as specified in the operator's manual.

_____ 2. Obtain drop release approval (for each drop) from the AOC flight director or navigator for each specific time and location of drop.

_____ 3. Report to the LPS as soon as it is determined that the ODW is (or is not) transmitting a good signal.

_____ 4. Report completion of each drop and readiness for the next drop.

_____ 5. Complete Form E-6.

### E.6.3 Postflight

_____ 1. Complete the summary form for ODW's.

_____ 2. Brief the on-board LPS on equipment status and turn in reports and completed forms to the LPS.

_____ 3. Hand-carry all ODW data tapes and printouts and inform the AOC flight director that you are arranging delivery as follows:

   a. Outside of Miami - to the HRD operations center (FGOC).
   b. In Miami - to AOML/HRD (temporarily), either directly or via MGOC, for conversion to 9-track magnetic tapes.

_____ 4. Debrief at the appropriate operations center (FGOC or MGOC).

_____ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

DABF

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AUG 29 1993

Form E-6

## HRD Omega-Dropwindsonde Scientist Log

Page 1 of ___

Flight 930829 I

ODW Scientists FRANKLIN
BURPEE

Storm EMILY

AOC Operator CARLOS/AL GOLDSTEIN

| Drop No. | Sonde ID No. | Time GMT | Lat. (°)N | Long. (°)W | Wind ~~(m/s)~~ kts (WD/WS) | Height (GA) | Temp. (TA) | Dew Pt. (TD) | Pressure (PS) | Remarks | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 183110 | 33°33' | 62°30' | 202/6 | 5483 | -4.2 | -23.6 | 525.7 | DAFB/ SONDE 1021 SPL IS GOOD | ✓ |
| 2 | 21399 | 185611 | 35°33' | 62°27' | 249/16 | 5470 | -5.3 | -24.2 | 526.0 | 1015 SPL | ✓ |
| 3 | 1393 | 192100 | 37°32 | 62°28' | 268/28 | 5455 | -4.9 | -24.0 | 526.1 | 1017 SPL | 1013.2 ✓ |
| 4 | 23325 | 194023 | 39°02' | 62°34 | 276/25 | 5441 | -5.4 | -12.5 | 526.1 | 1016 SPL | ✓ |
| 5 | 457 | 201057 | 38°57 | 65°24 | 299/22 | 5764 | -5.5 | -15.9 | 505.5 | Toffset +10.3°C 1018 SPL | ✓ |
| * 5A | LOD2 | 201135 | 38 55 | 65 23 | 302/24 | 5765 | -4.9 | -15.4 | 505.7 | GOOD | LOD2 |
| 6 | 23329 | 202825 | 37 32 | 65 25 | 276/11 | 5777 | -5.6 | -21.7 | 505.7 | 1019 SPL | ✓ |
| 7 | 3317 | 205320 | 35 32 | 65 27 | 225/12 | 5790 | -5.9 | -25.8 | 505.7 | 1016 SPL | ✓ |
| 8 | 21301 | 211243 | 33 59 | 65 31 | 188/11 | 6127 | -8.7 | -24.2 | 484.2 | OPERATOR COULD NOT HEAR 52 1021 | ✓ |
| * 8A | LOD2 | 211305 | 34 00 | 65 35 | 171/10 | 6129 | -7.8 | -25.8 | 484.0 | PARTIAL | LOD2 |
| 8B | 10046 | 211616 | 34 01 | 65 34 | 177/11 | 6135 | -8.3 | -24.9 | 483.9 | BAD THERMO | X |
| 9 | 1551 | 214200 | 34 09 | 65 68 24 | 111/15 | 6113 | -8.1 | -12.9 | 484.0 | BAD | X |
| 9A | 32102 | 214503 | 34 24 | 68 24 | 097/13 | 6123 | -8.2 | -13.8 | 484.0 | BAD | X |
| 10 | 3319 | 215856 | 35 34 | 68 25 | 092/05 | 6121 | -7.3 | -25.5 | 484.0 | | ✓ |

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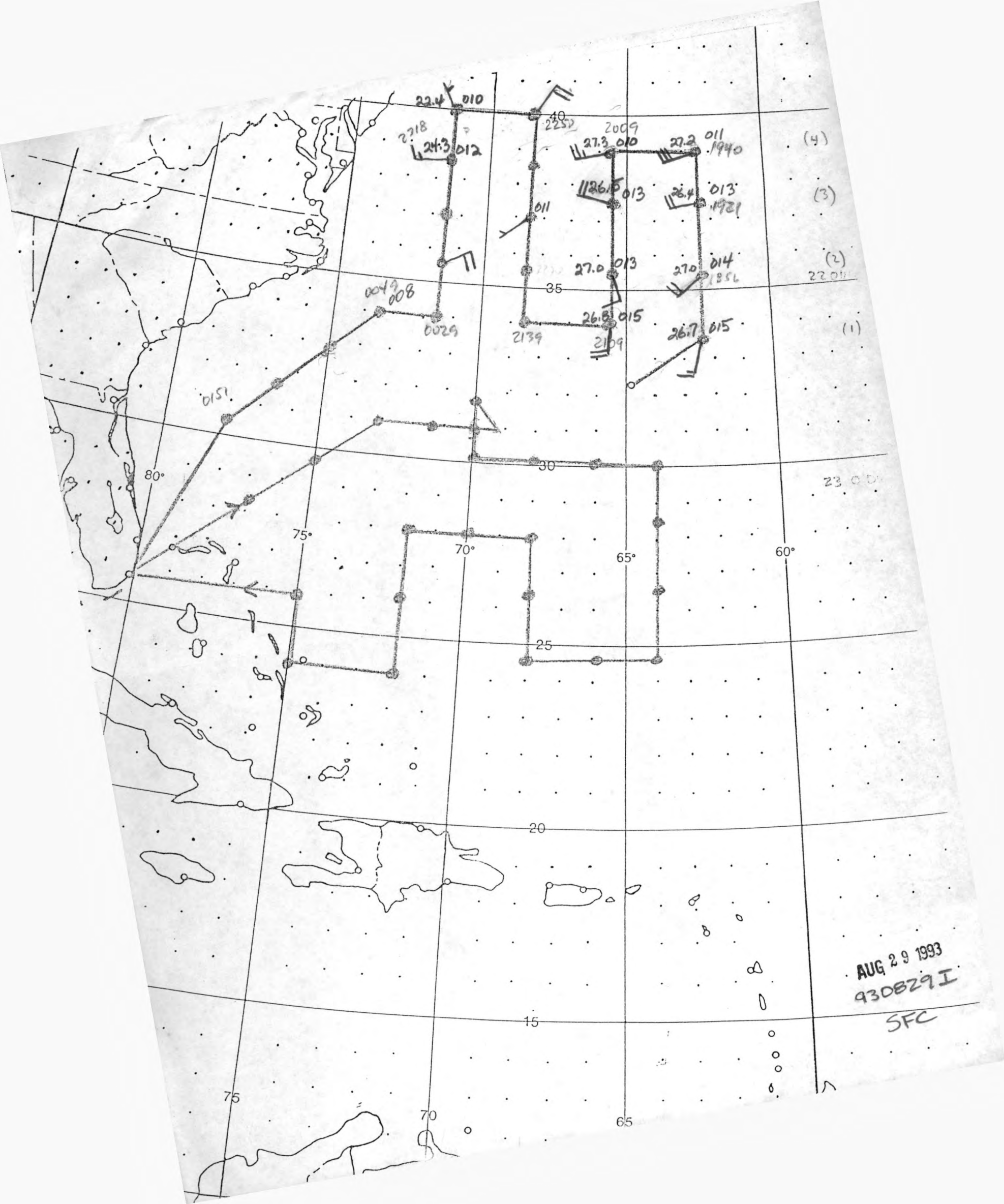
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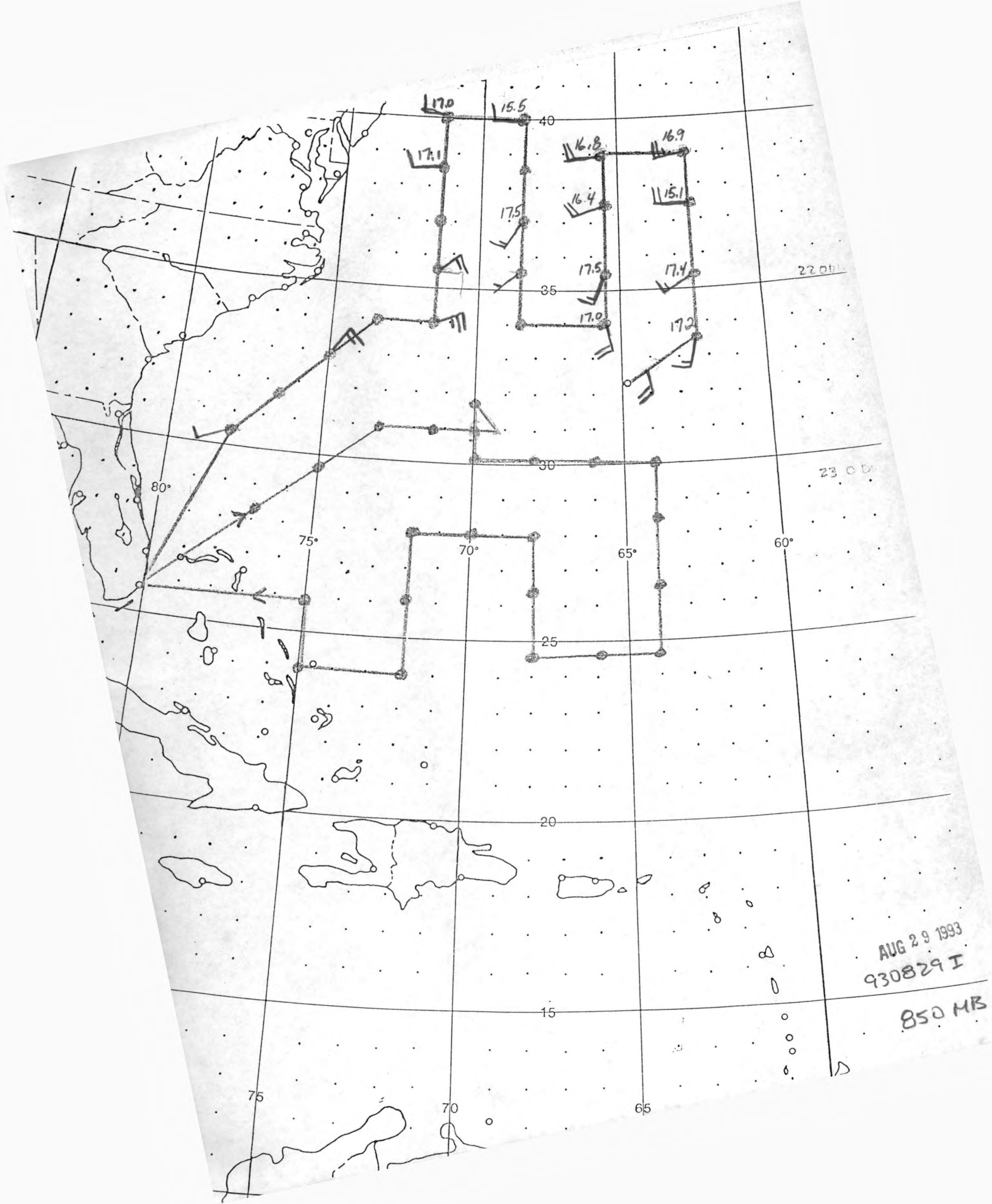
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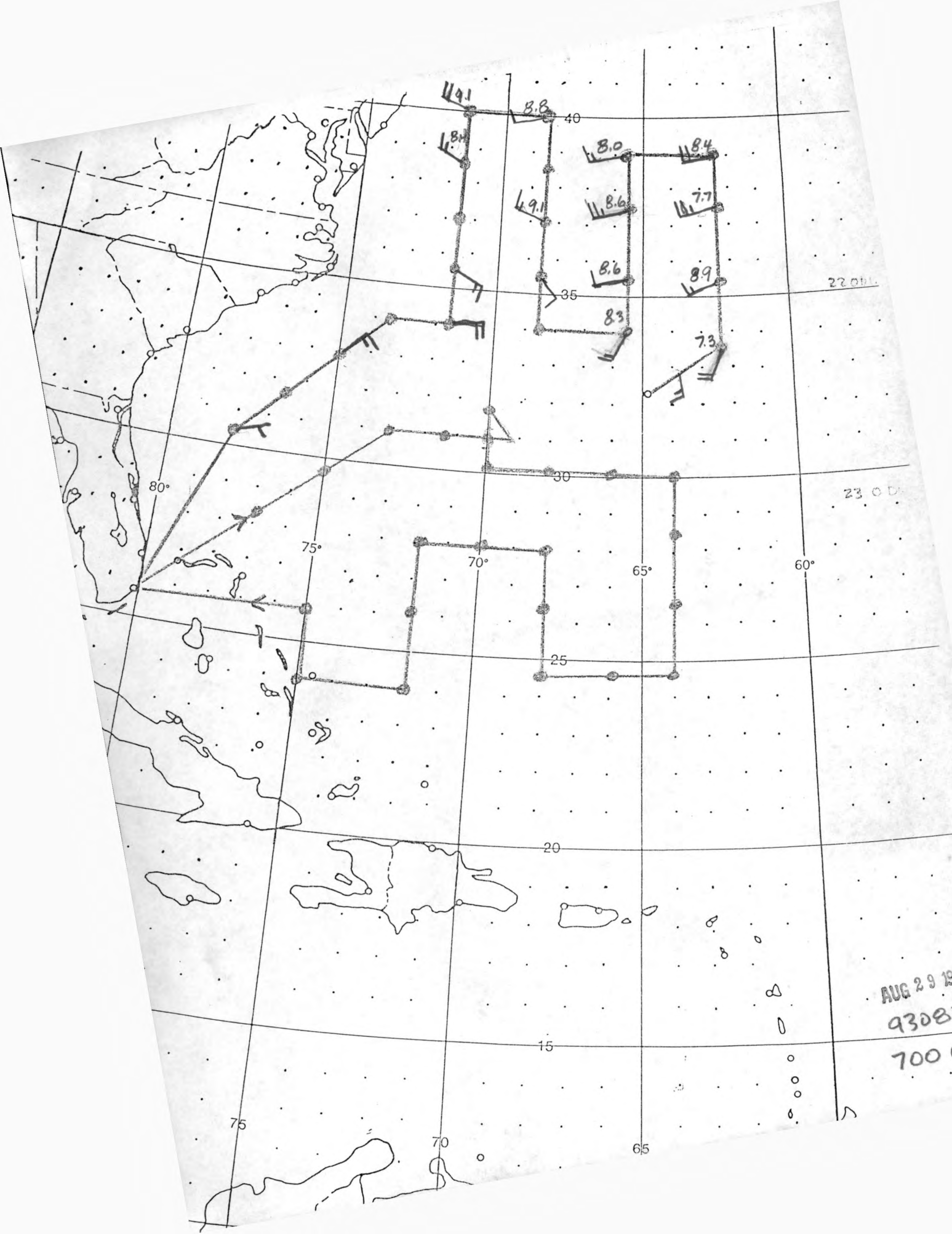
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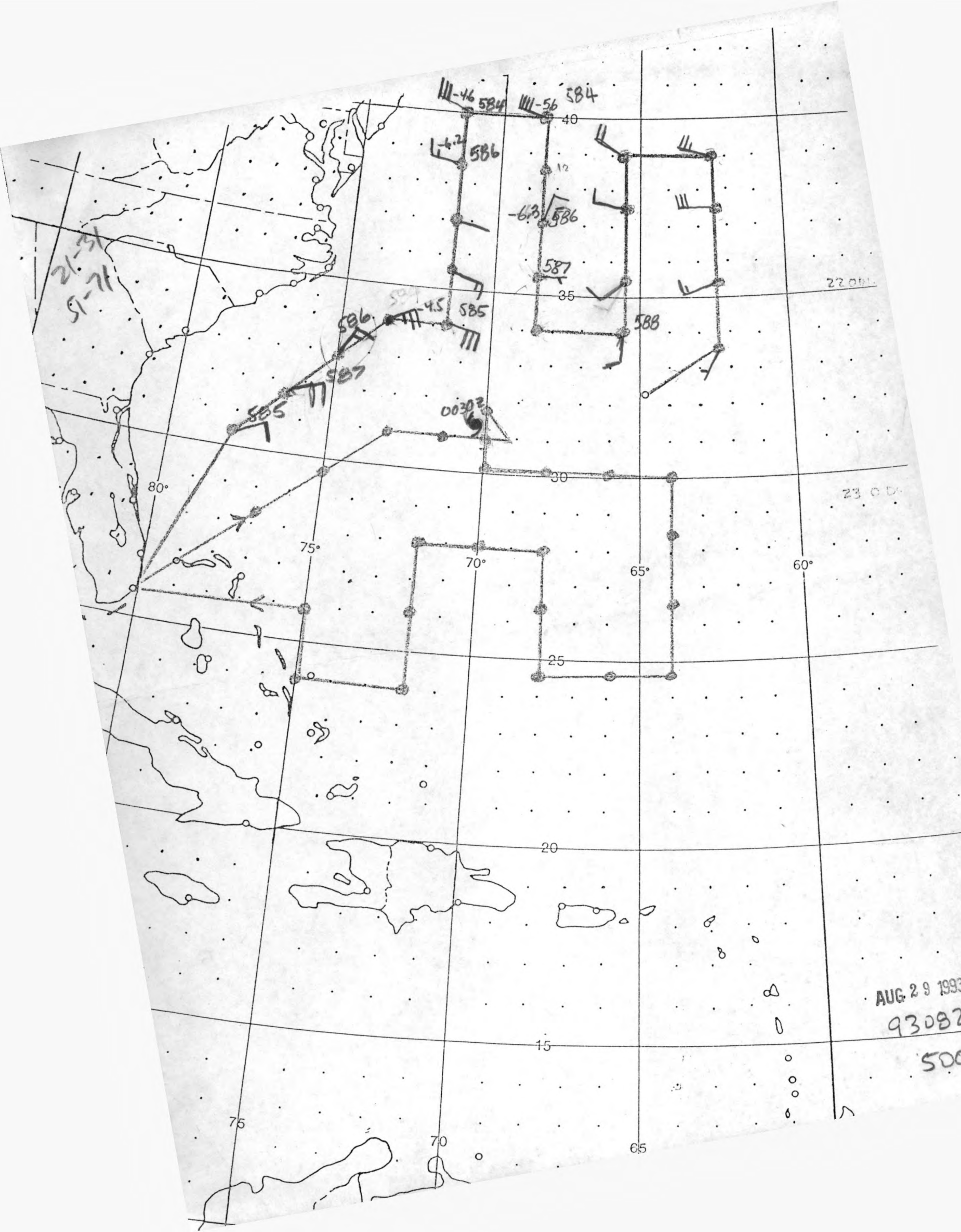
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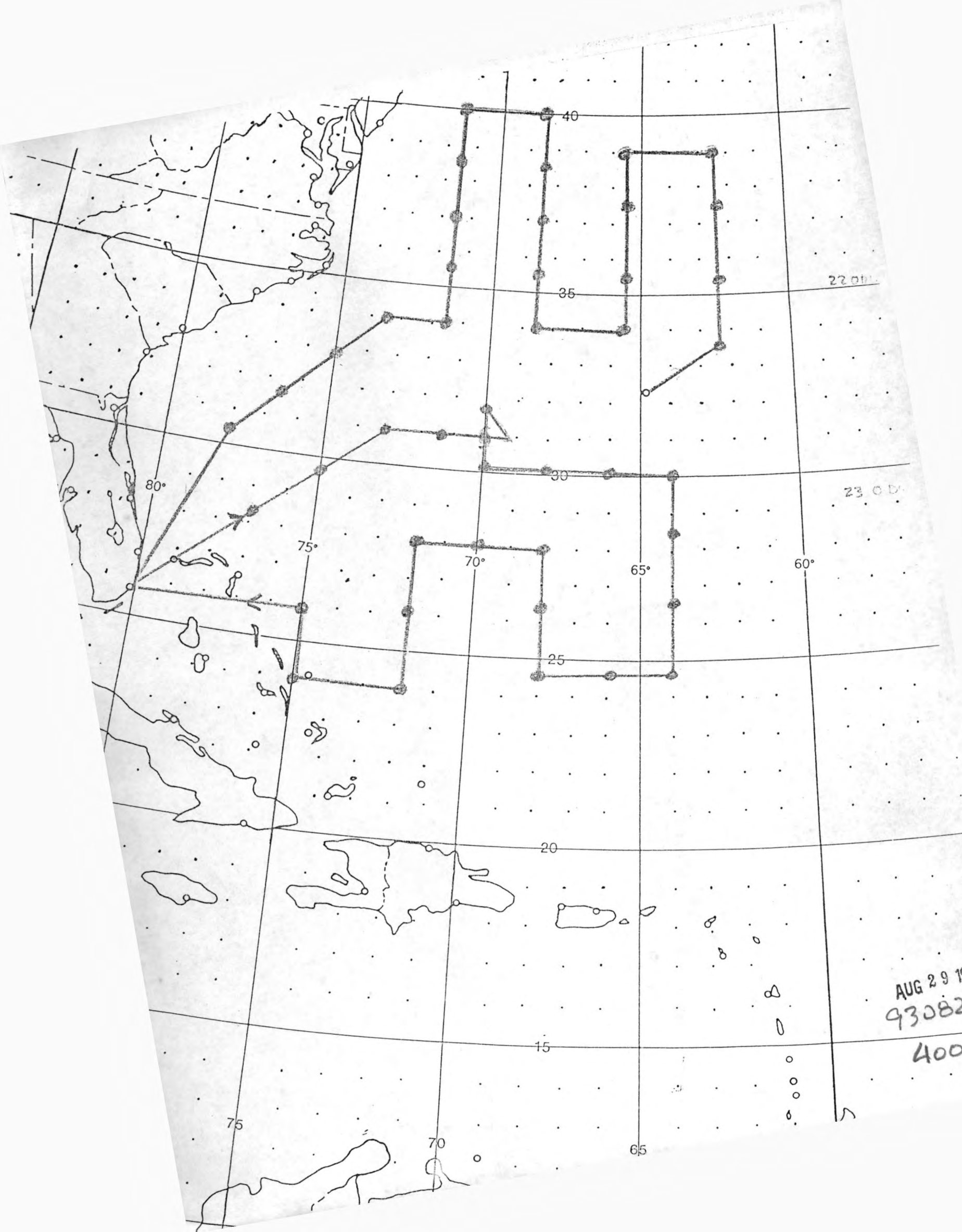
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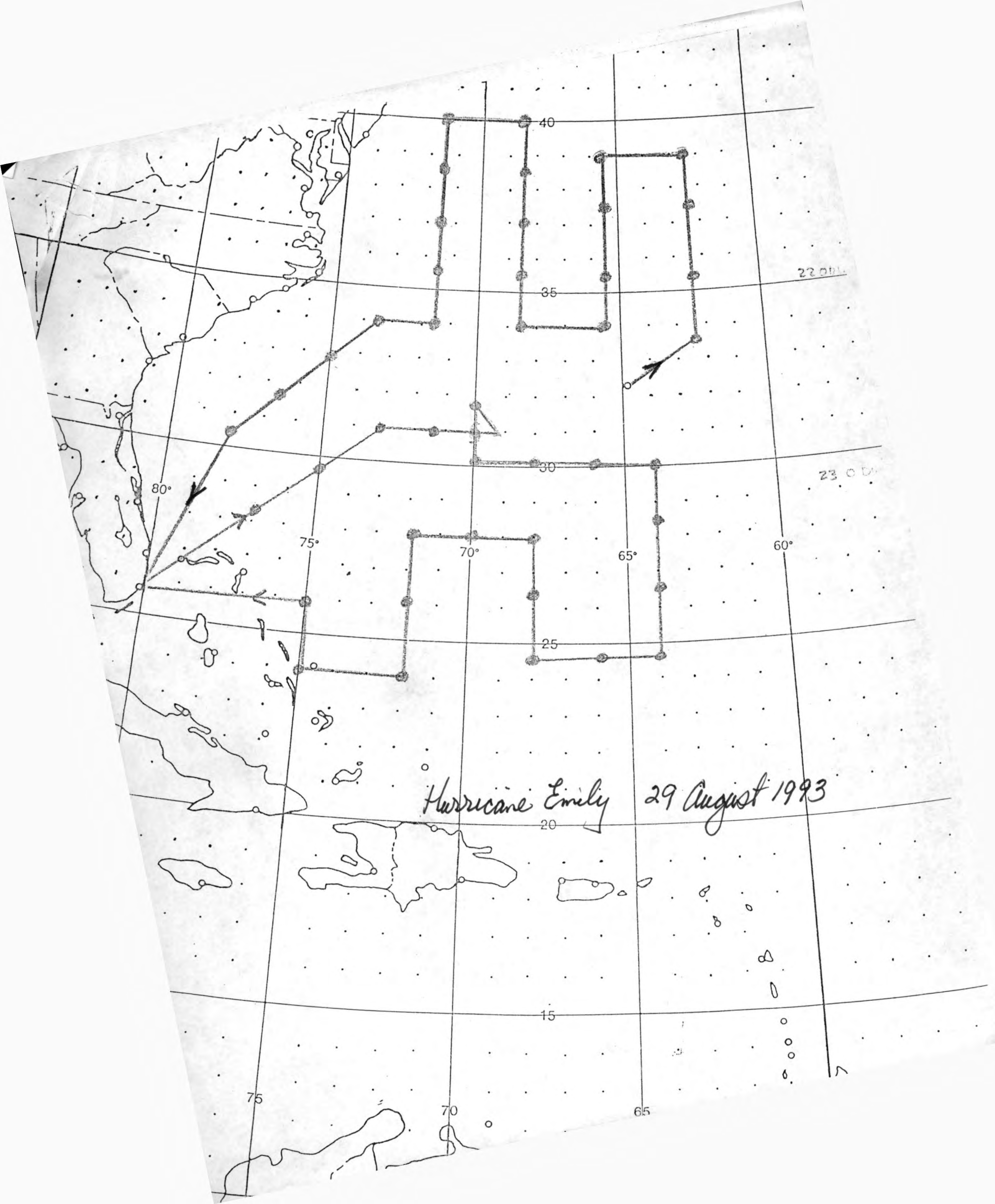
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