

## DANA02RR Quality Control Report

### Cruise Data

- Track chart

- Meteorology

  - Air temperature

  - Barometric pressure

  - Humidity

  - Precipitation

  - Short wave radiation

  - Long wave radiation

- Wind

  - Wind speed and direction (relative)

  - Wind speed and direction (true)

  - Ship speed and direction

- Surface sound velocity

  - Water temperature

  - Conductivity

  - Salinity

  - Surface sound velocity

- Expendable bathythermographs

- Sound velocity profiles

- Ashtech 3D GPS attitude

- Underway data plots

  - Ship heading

  - Speed, knots

  - Total gravity, mgal

  - Faa, mgal

  - Depth, meters

  - Mag.field, nT

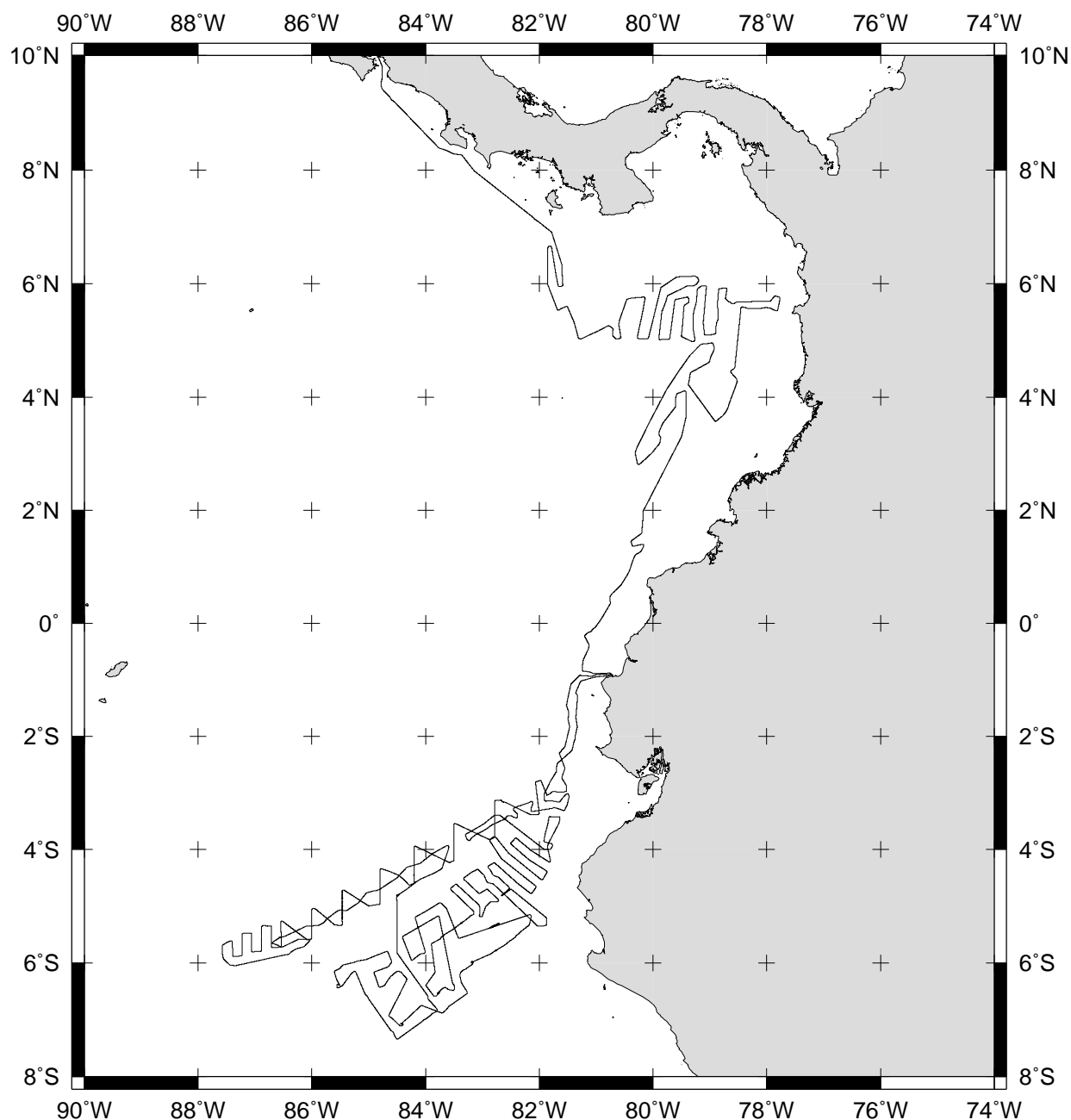
  - Mag anomaly, nT

Multibeam bathymetry contour plots

Multibeam sidescan plots

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(Note – to view bookmarks in Adobe Acrobat, press <F5>).



### **DANA EXPEDITION LEG 2 (DANA02RR)**

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**CHIEF SCIENTIST: Peter Lonsdale, Scripps Institution**

**PORTS: Puntarenas, Costa Rica - Manta, Ecuador**

**DATES: 10 October - 6 November 2003**

**SHIP: R/V Revelle**

### **TOTAL MILEAGE OF UNDERWAY DATA COLLECTED**

**Cruise-6224 miles**

**Magnetics-4673 miles**

**Bathymetry-6124 miles**

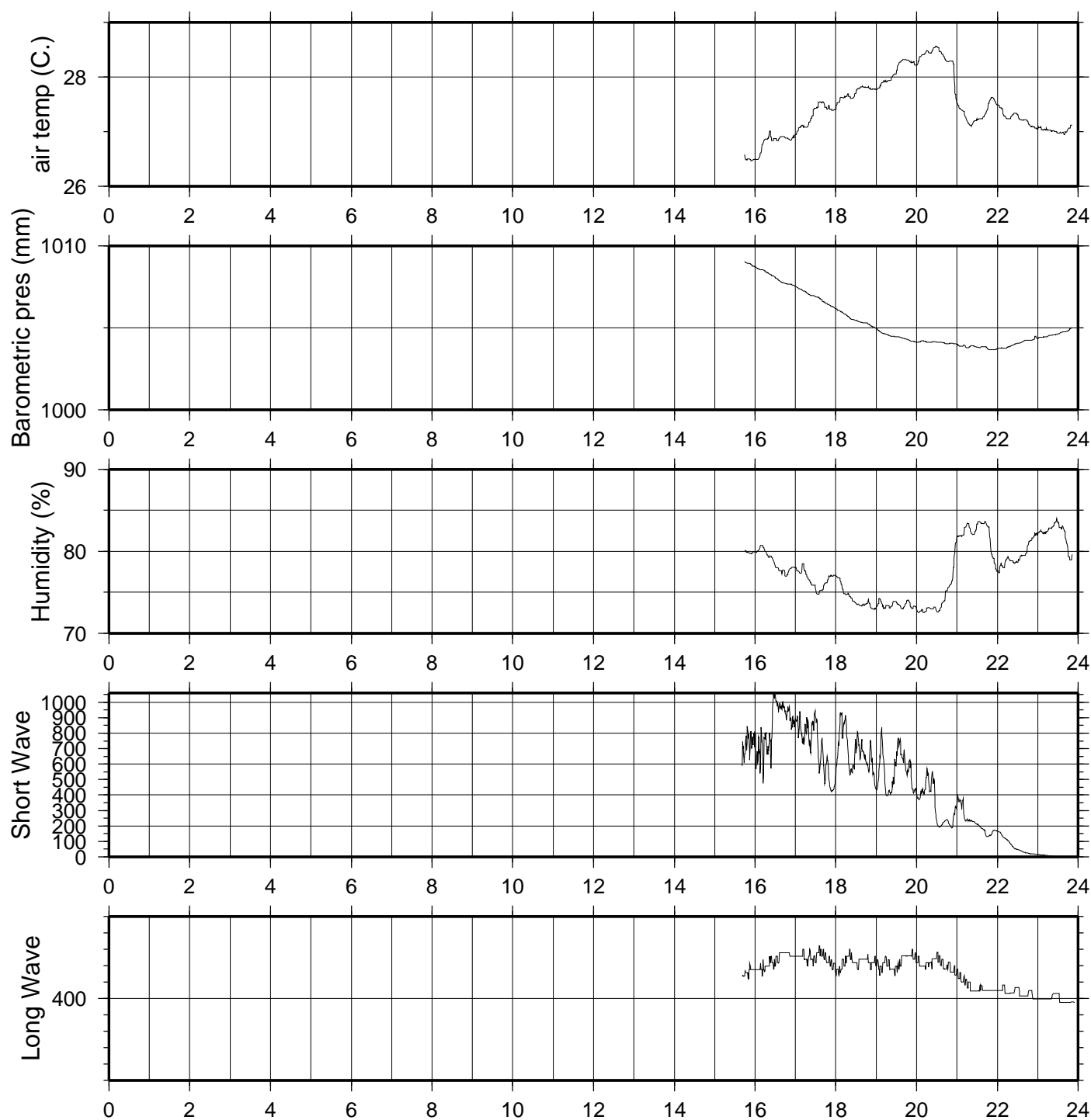
**Seismic Reflection-collected**

**Multibeam-6124 miles**

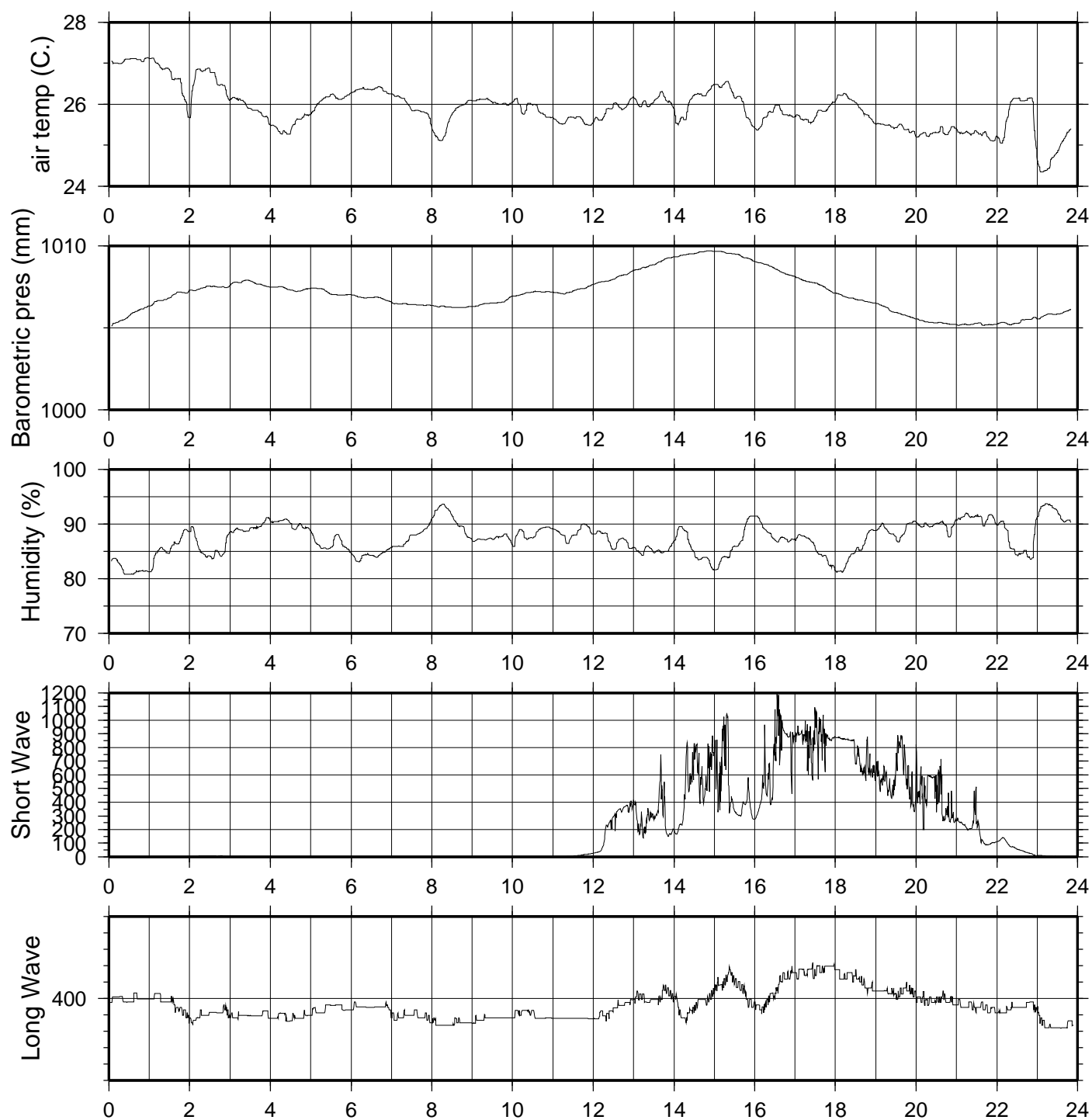
**Gravity-5974 miles**



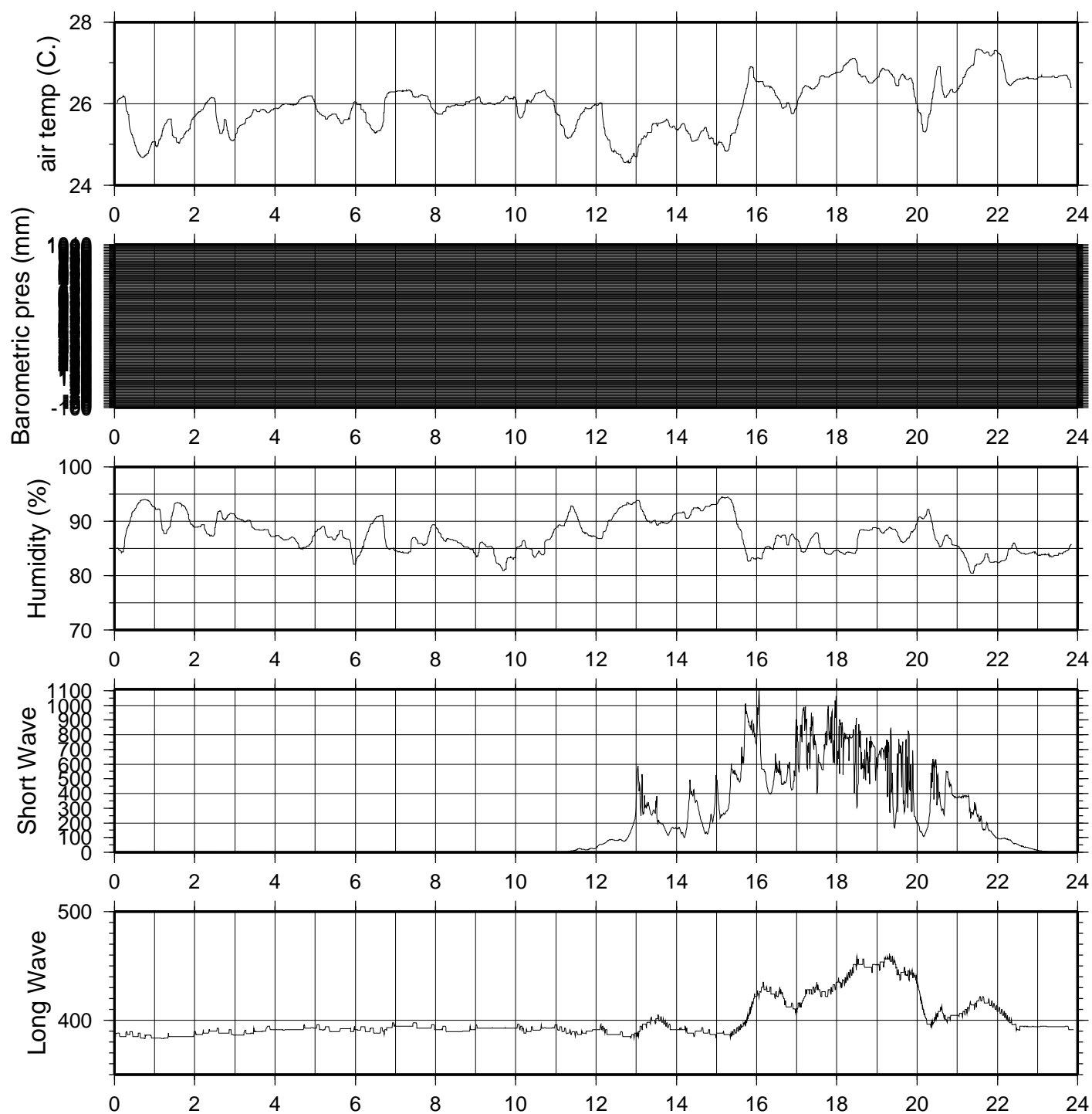
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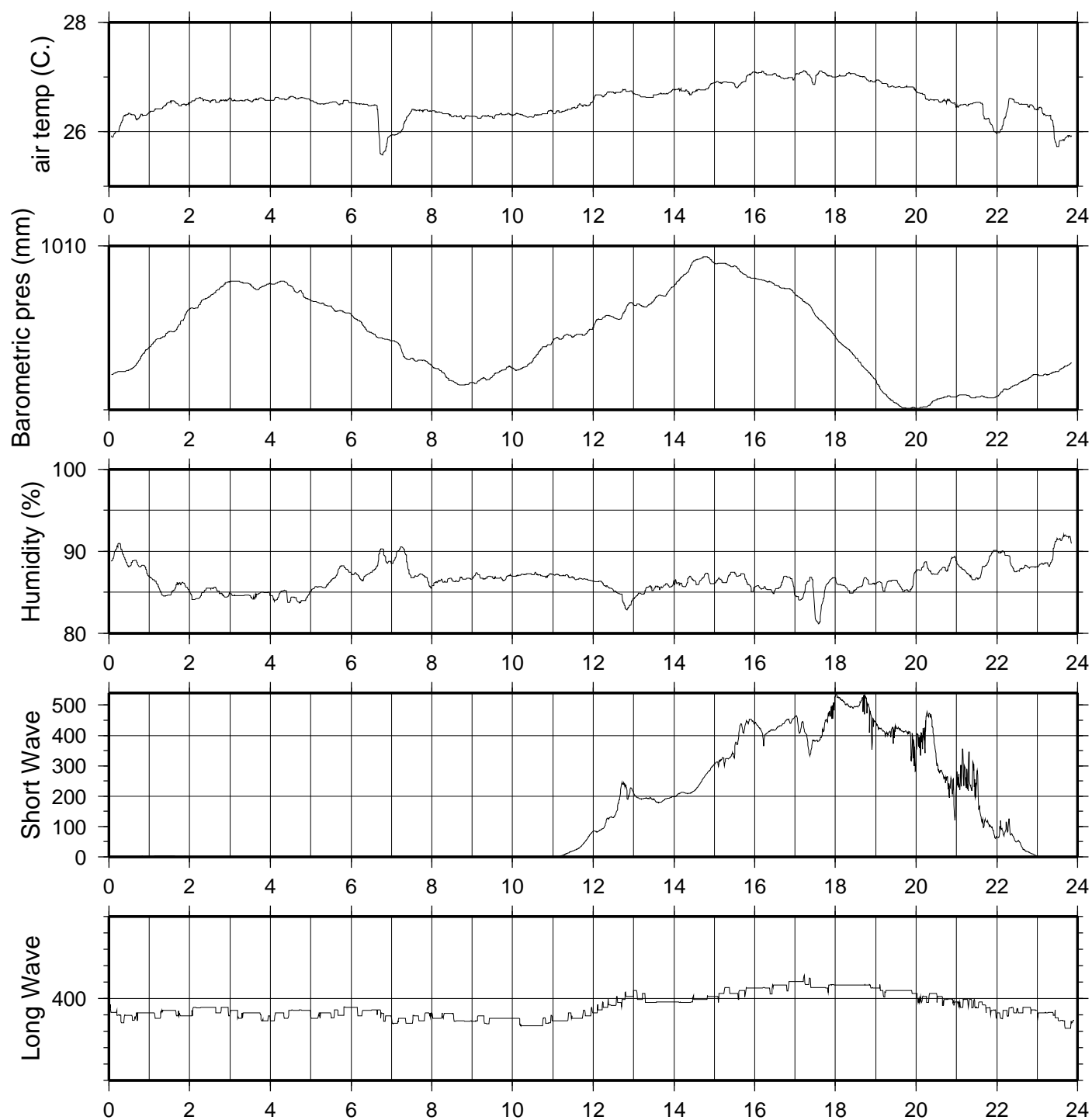
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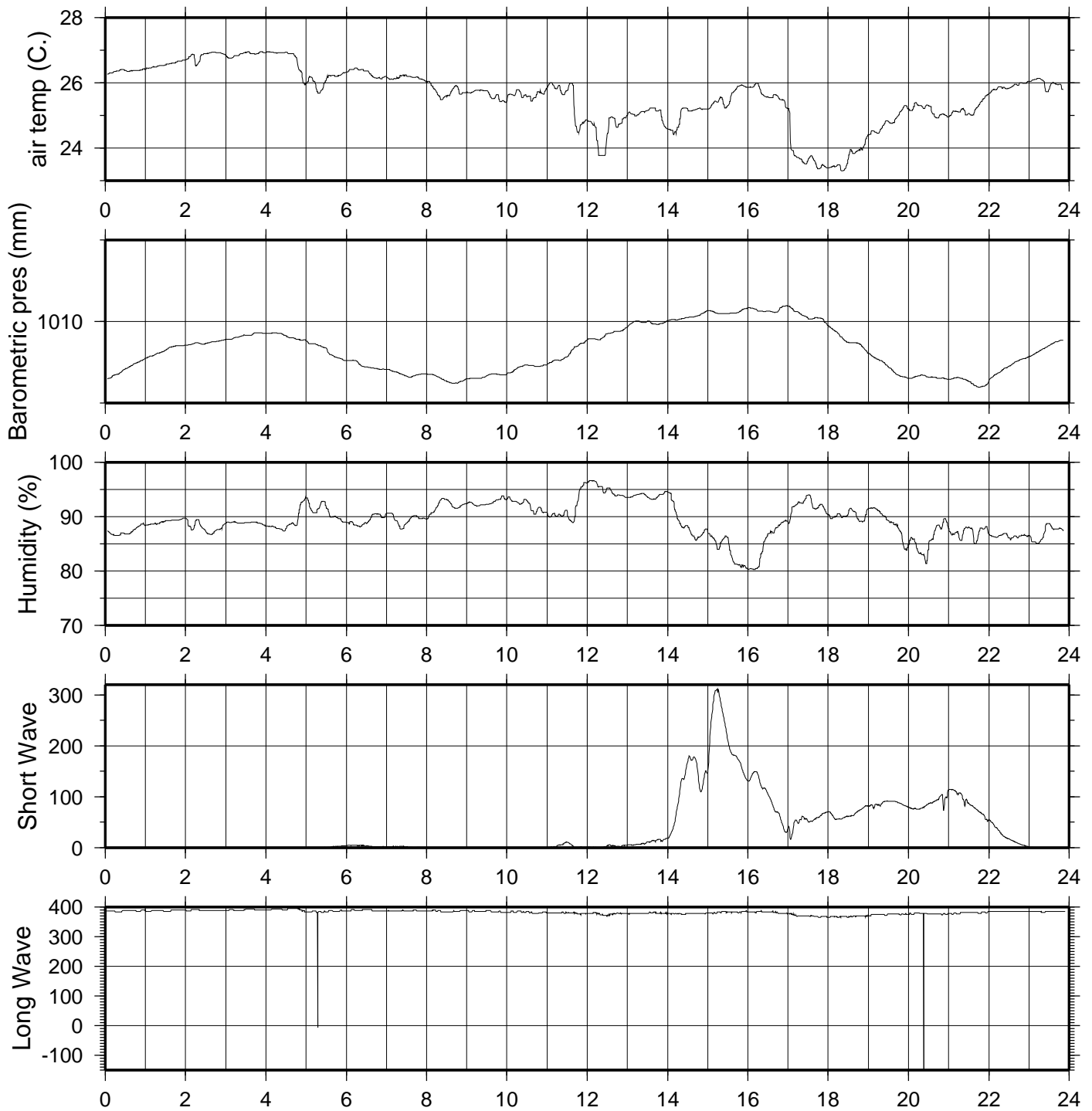
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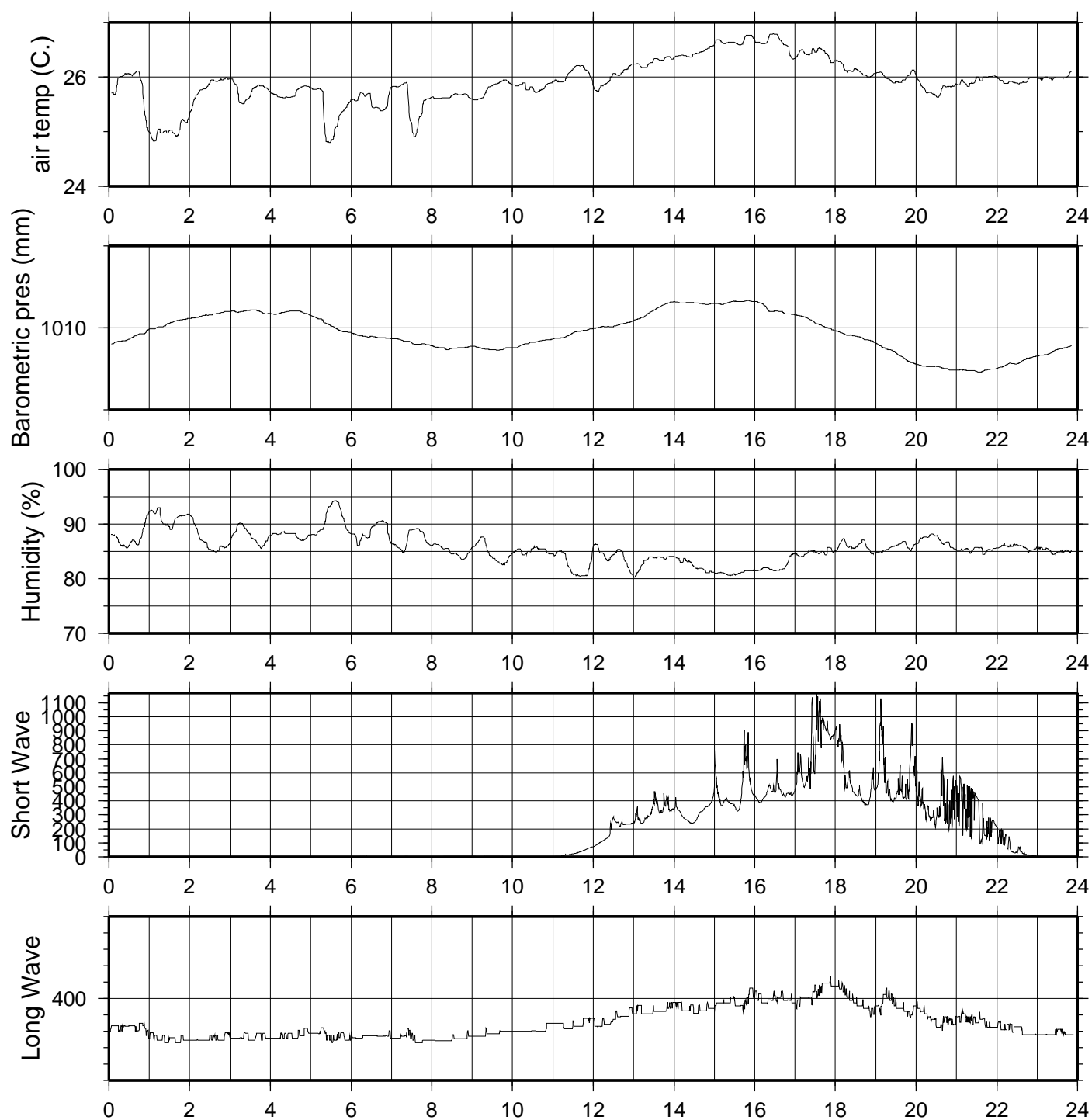
# Meteorological Data DANA02RR 2003oct13



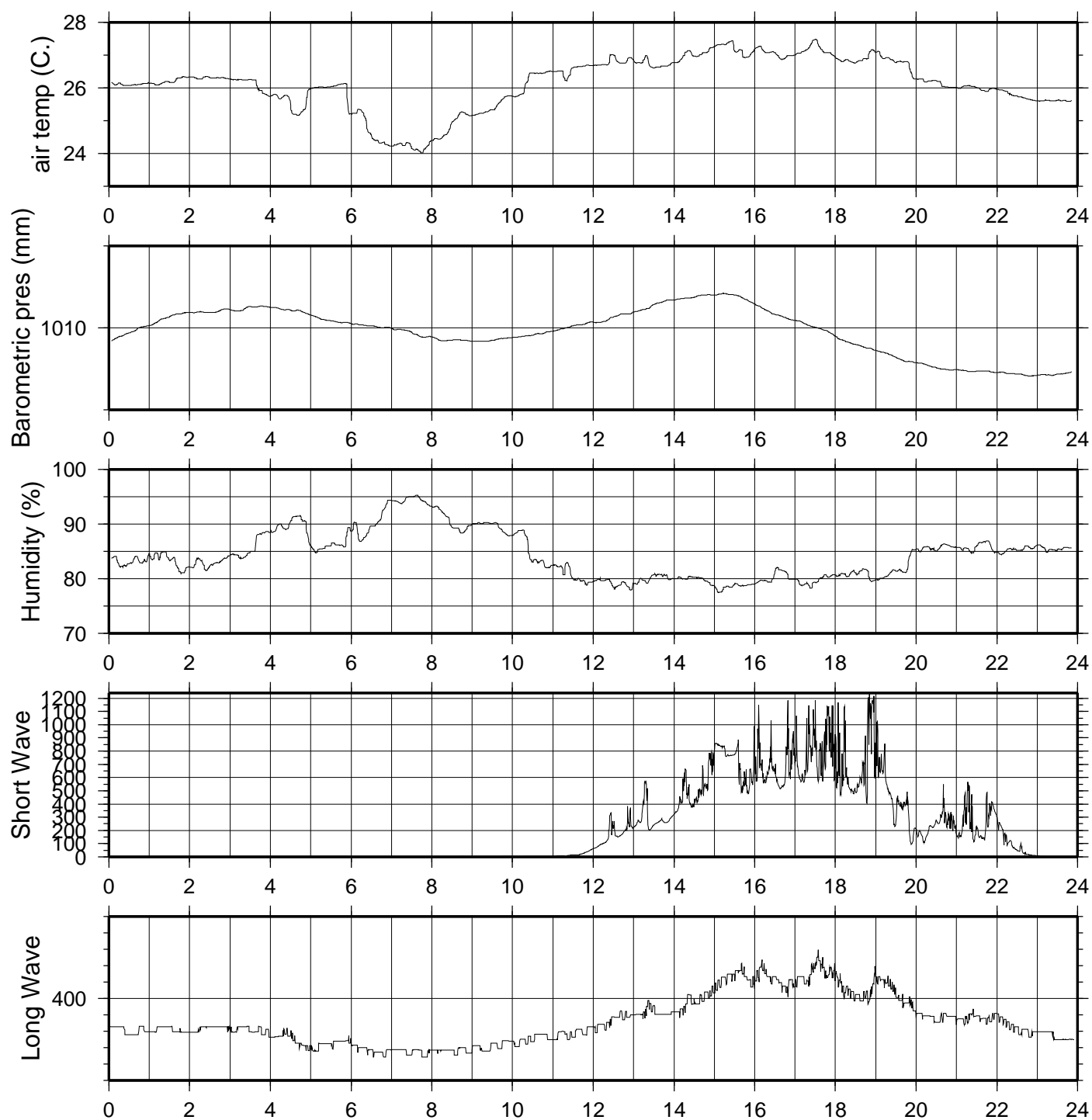
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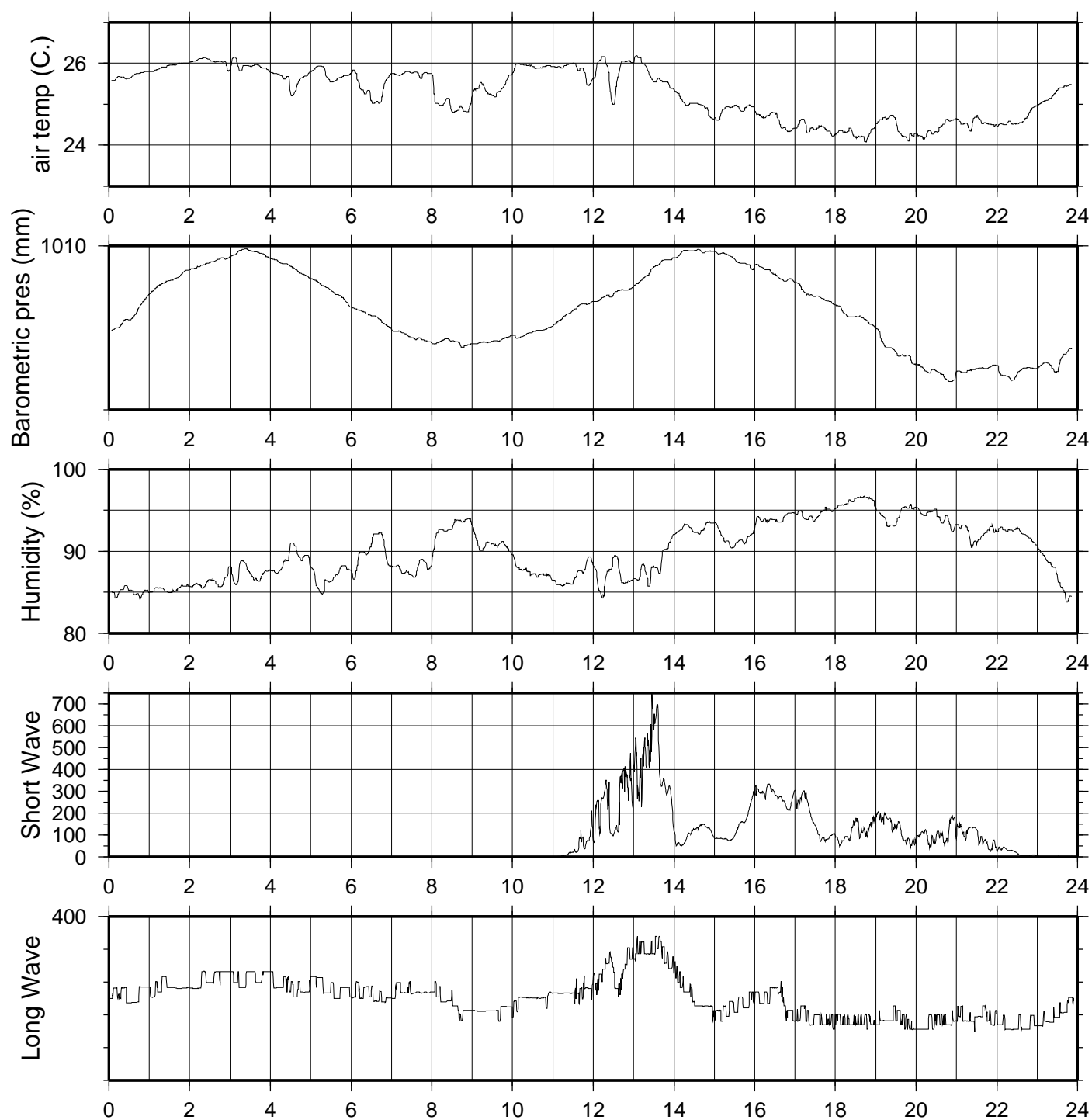
# Meteorological Data DANA02RR 2003oct15



# Meteorological Data DANA02RR 2003oct16

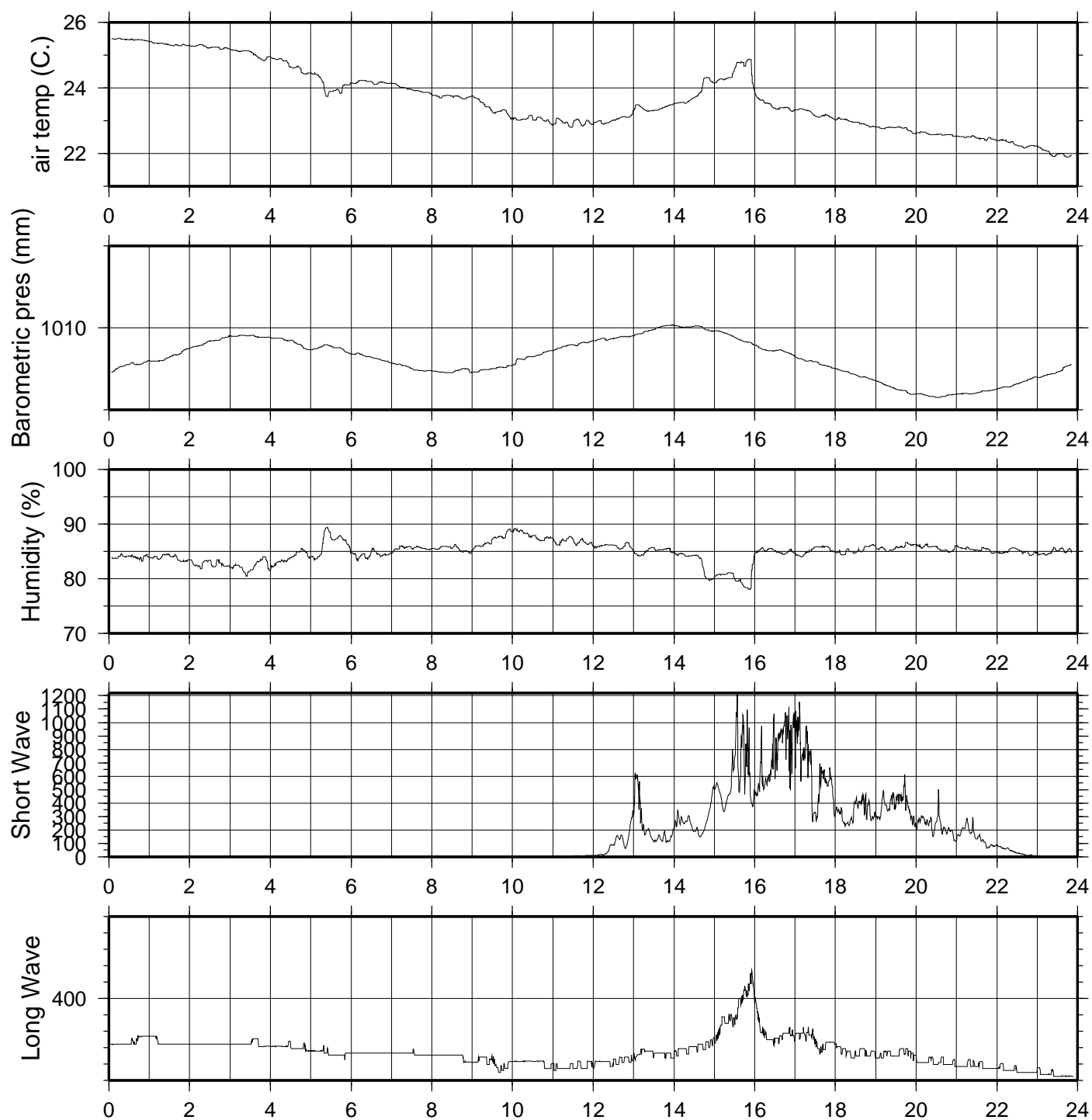


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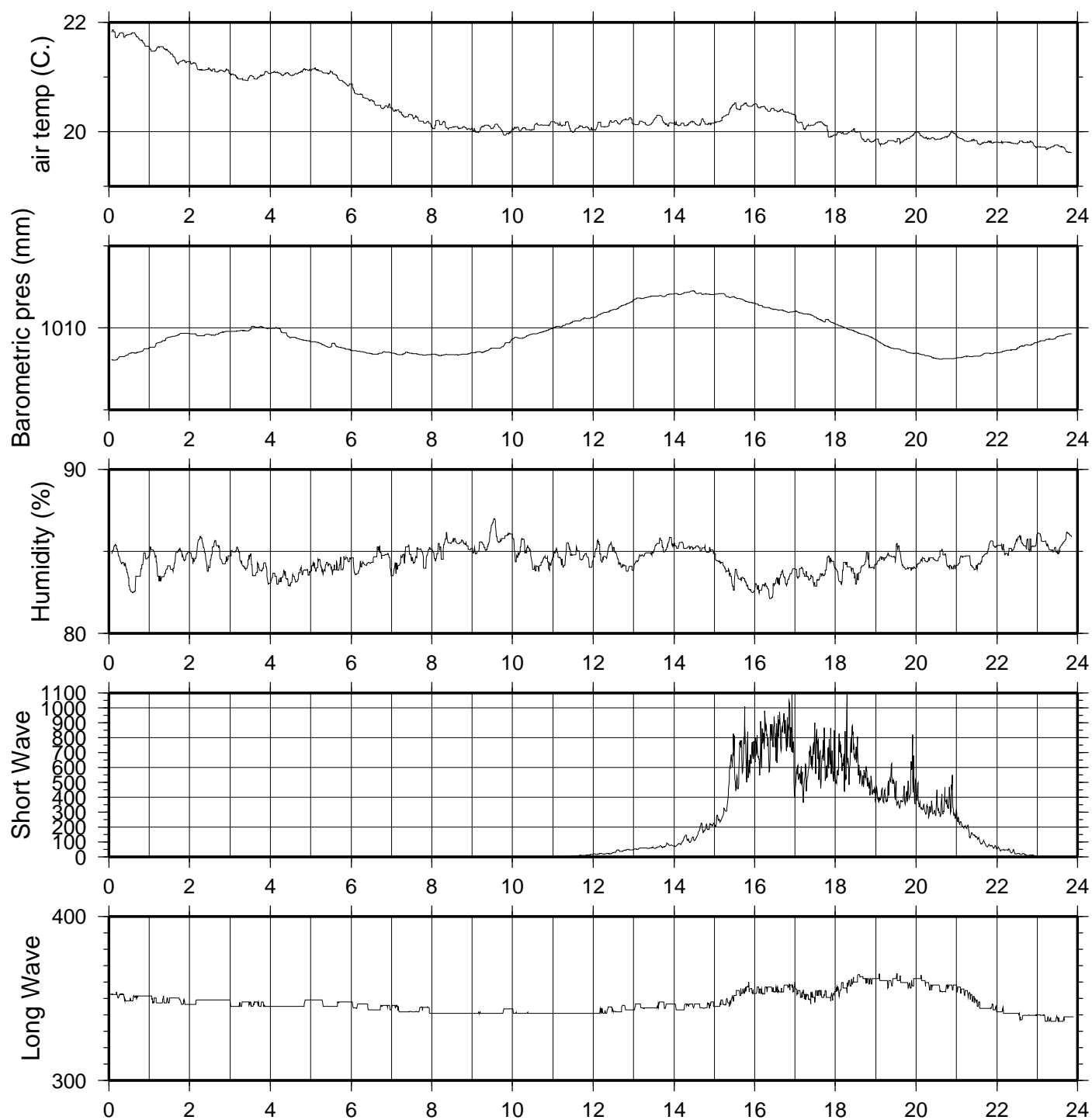




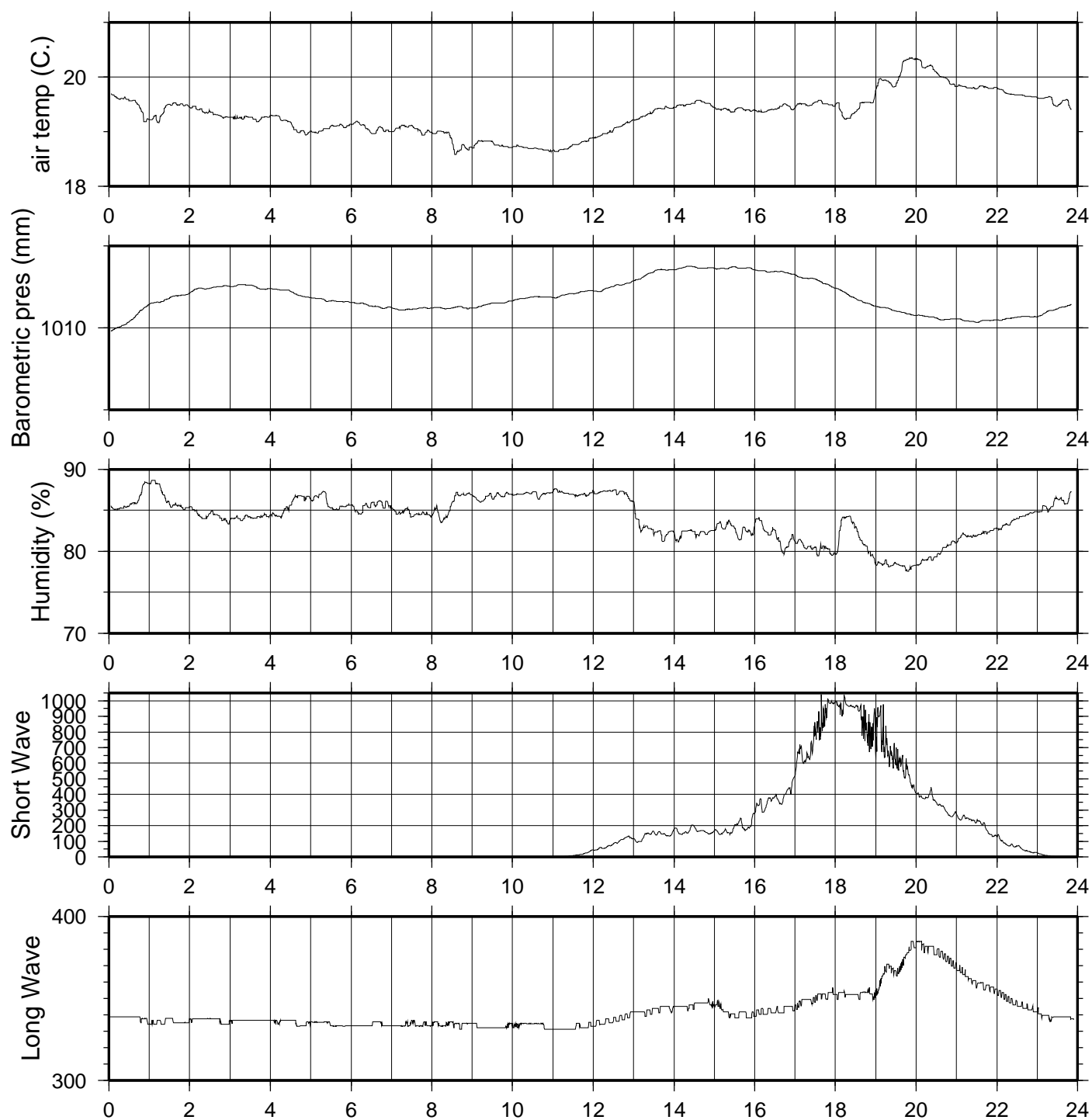
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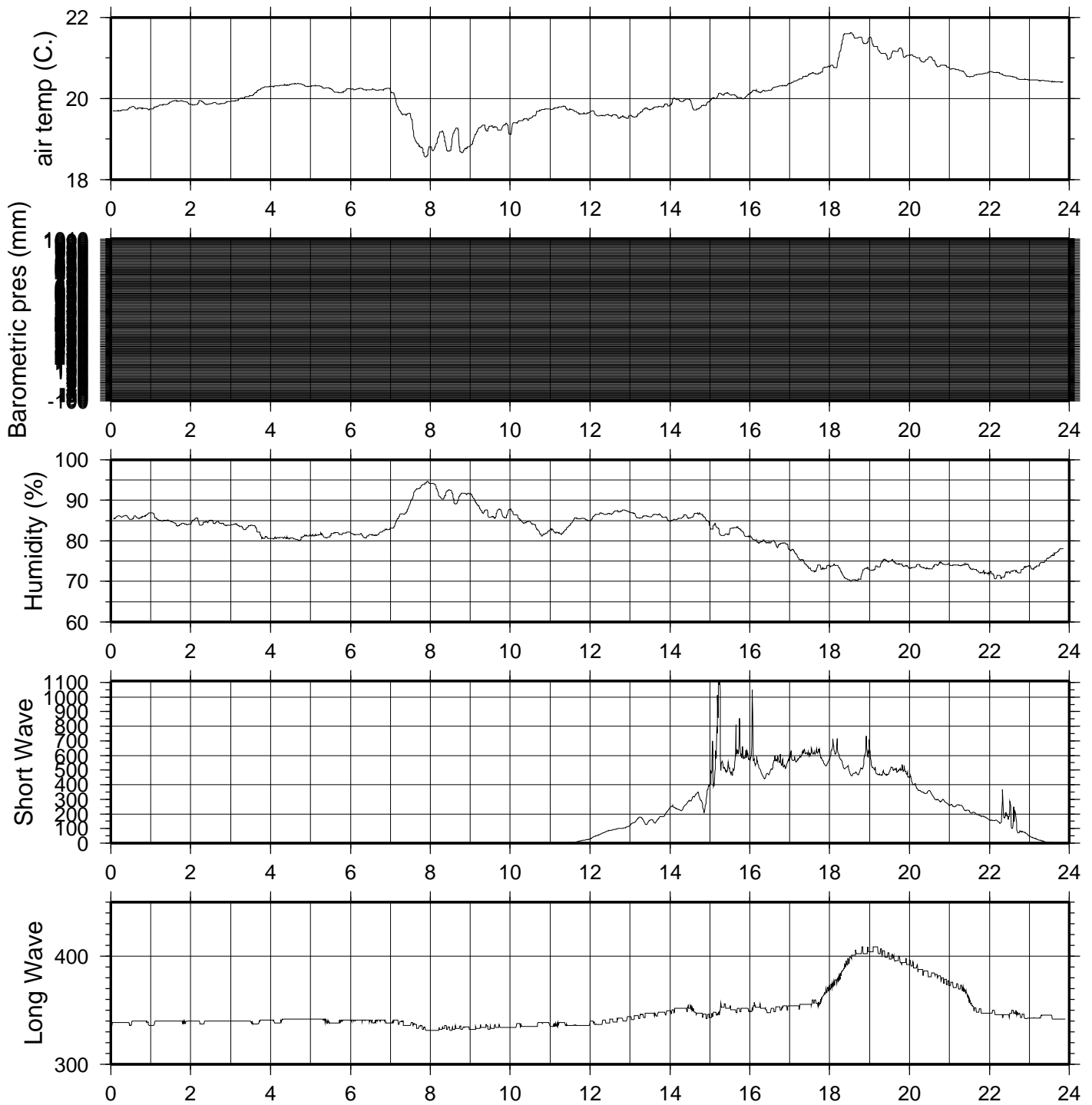
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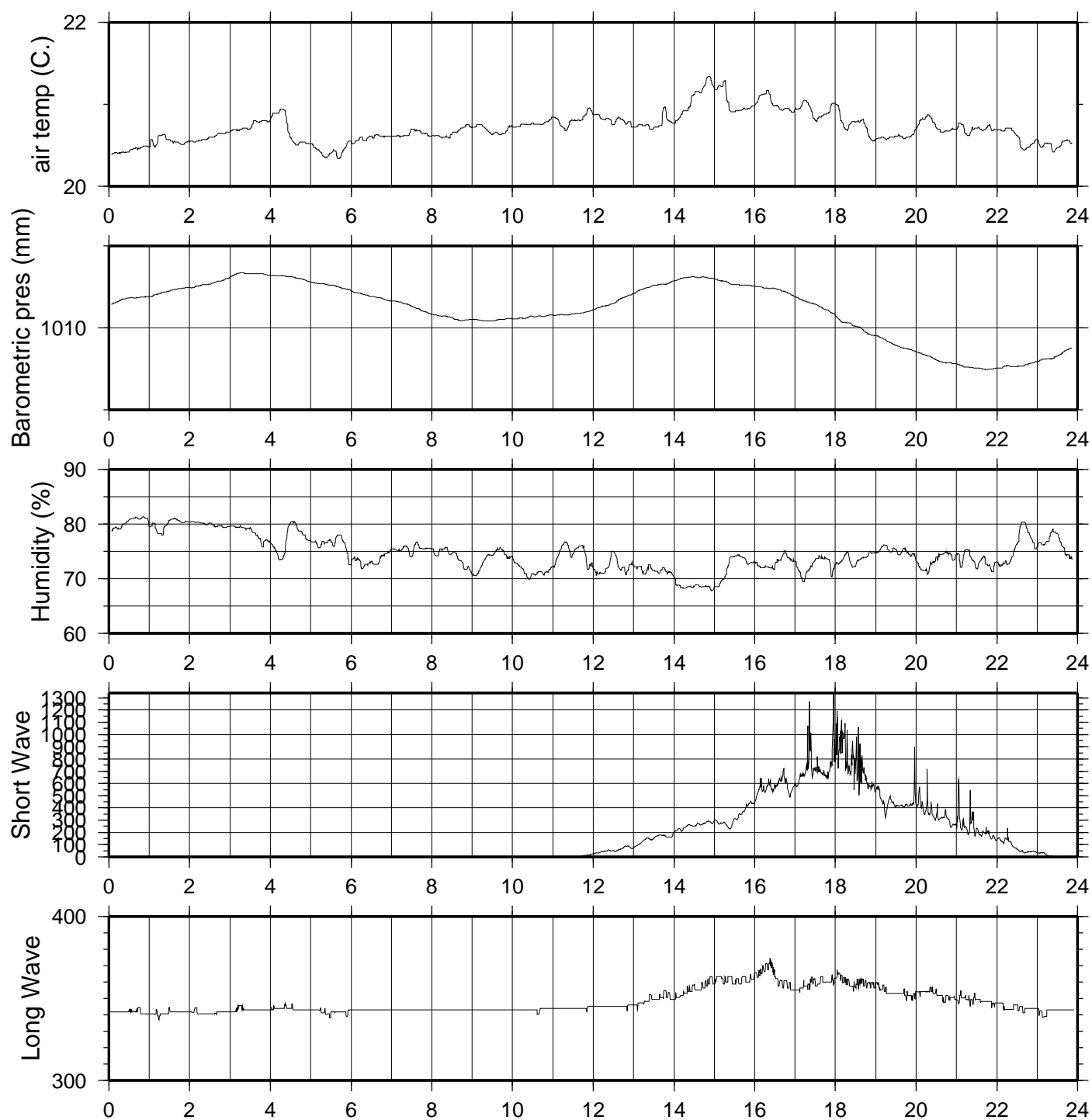
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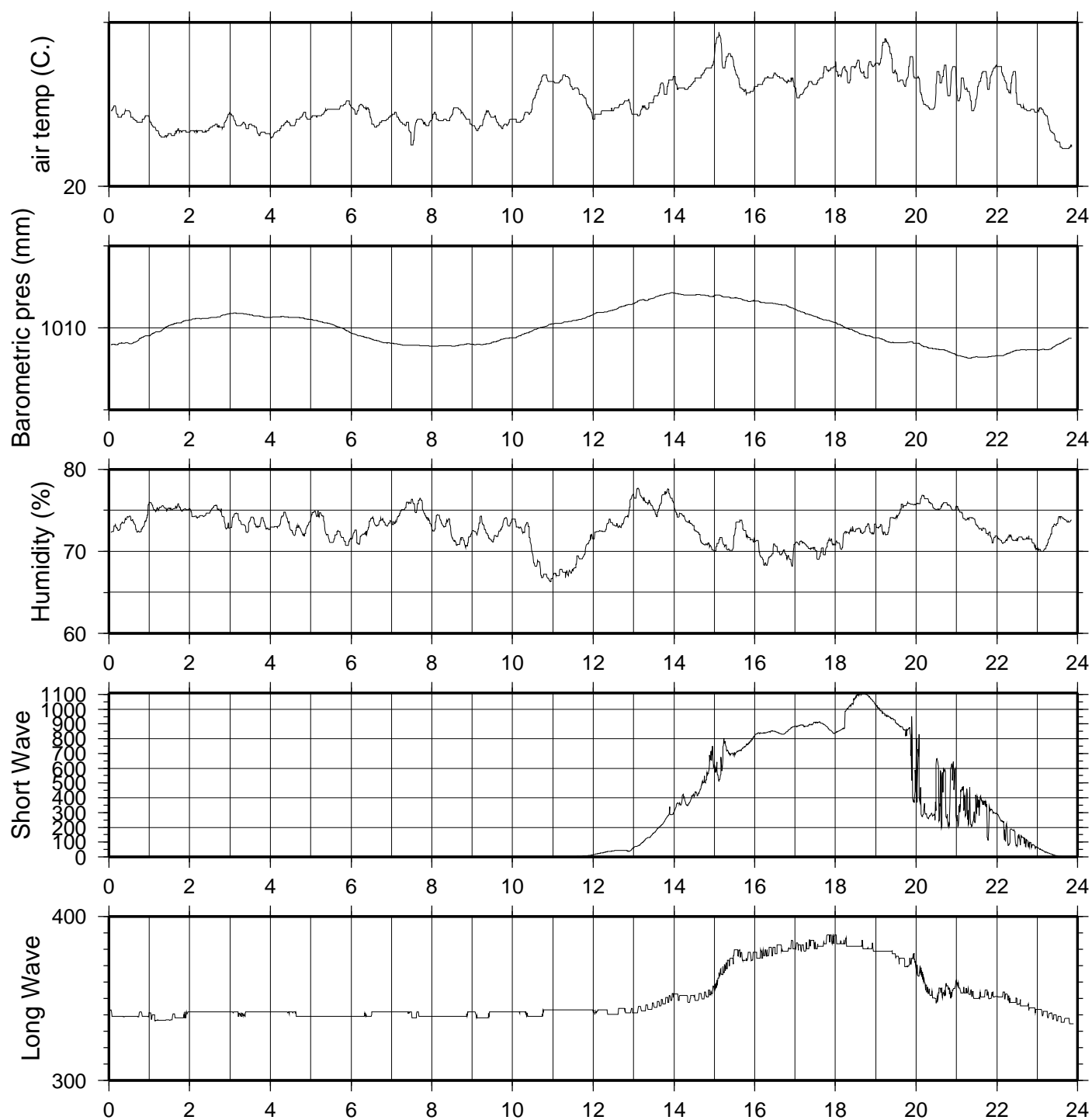
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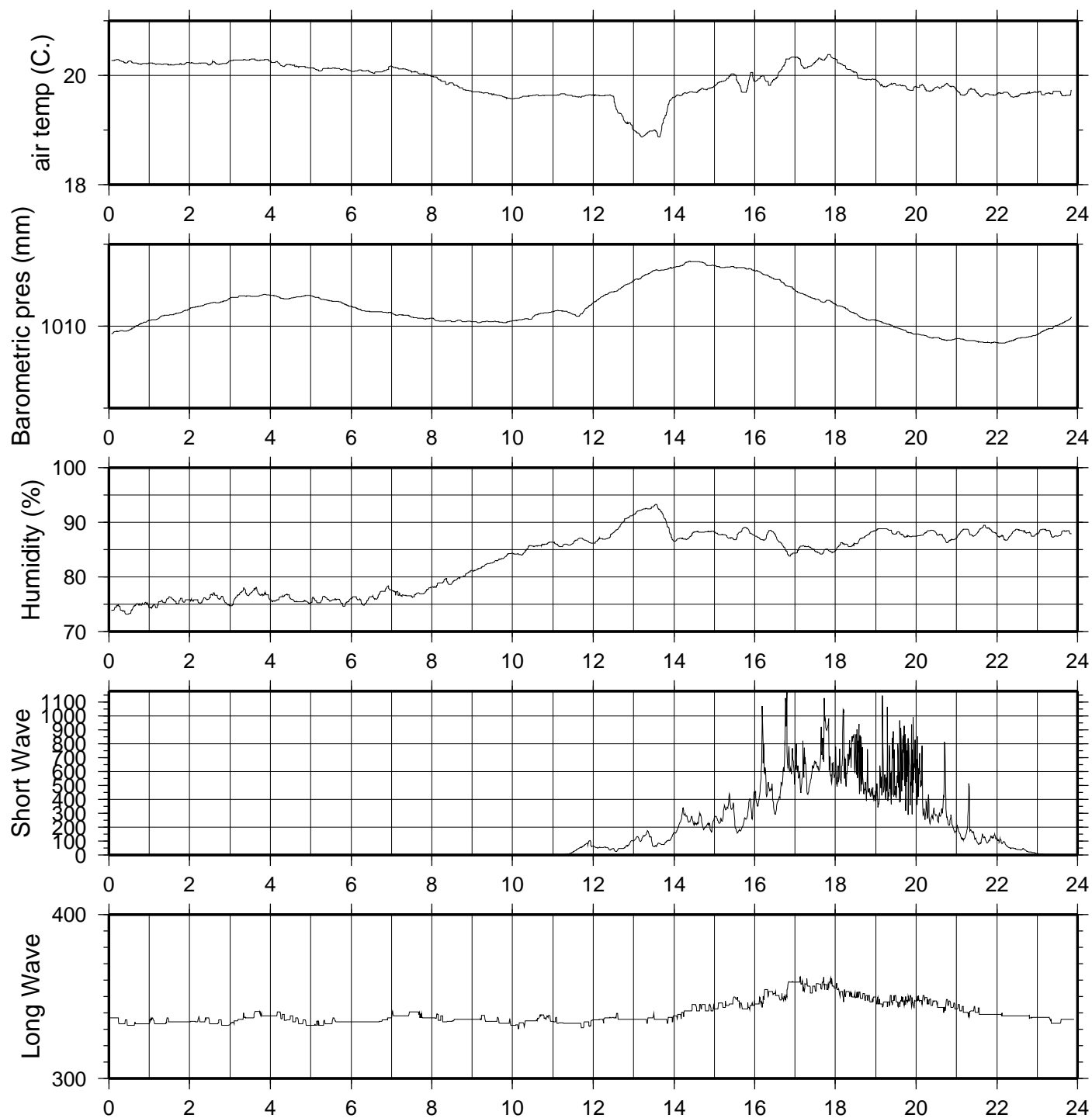
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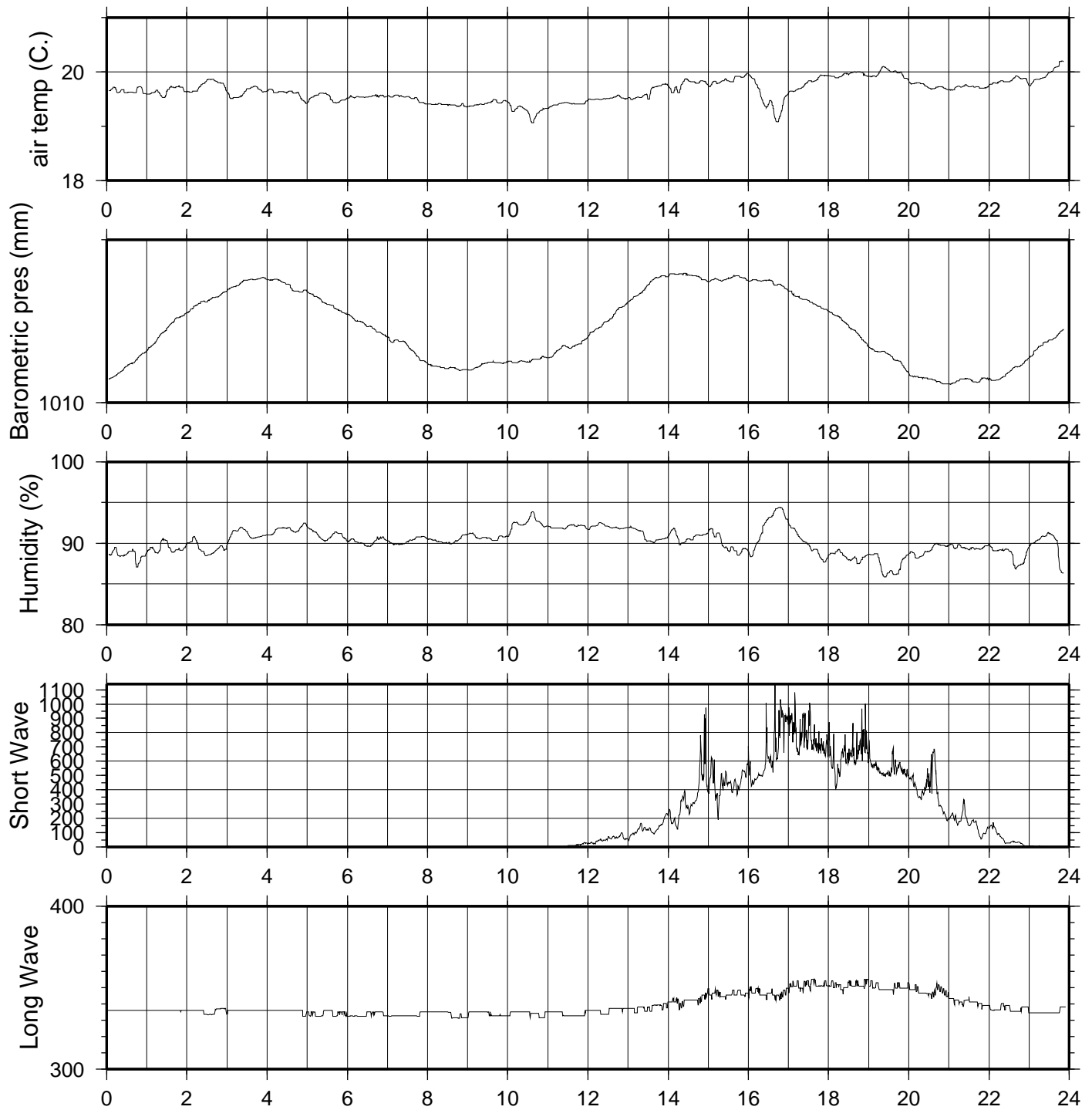
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# Meteorological Data DANA02RR 2003oct24

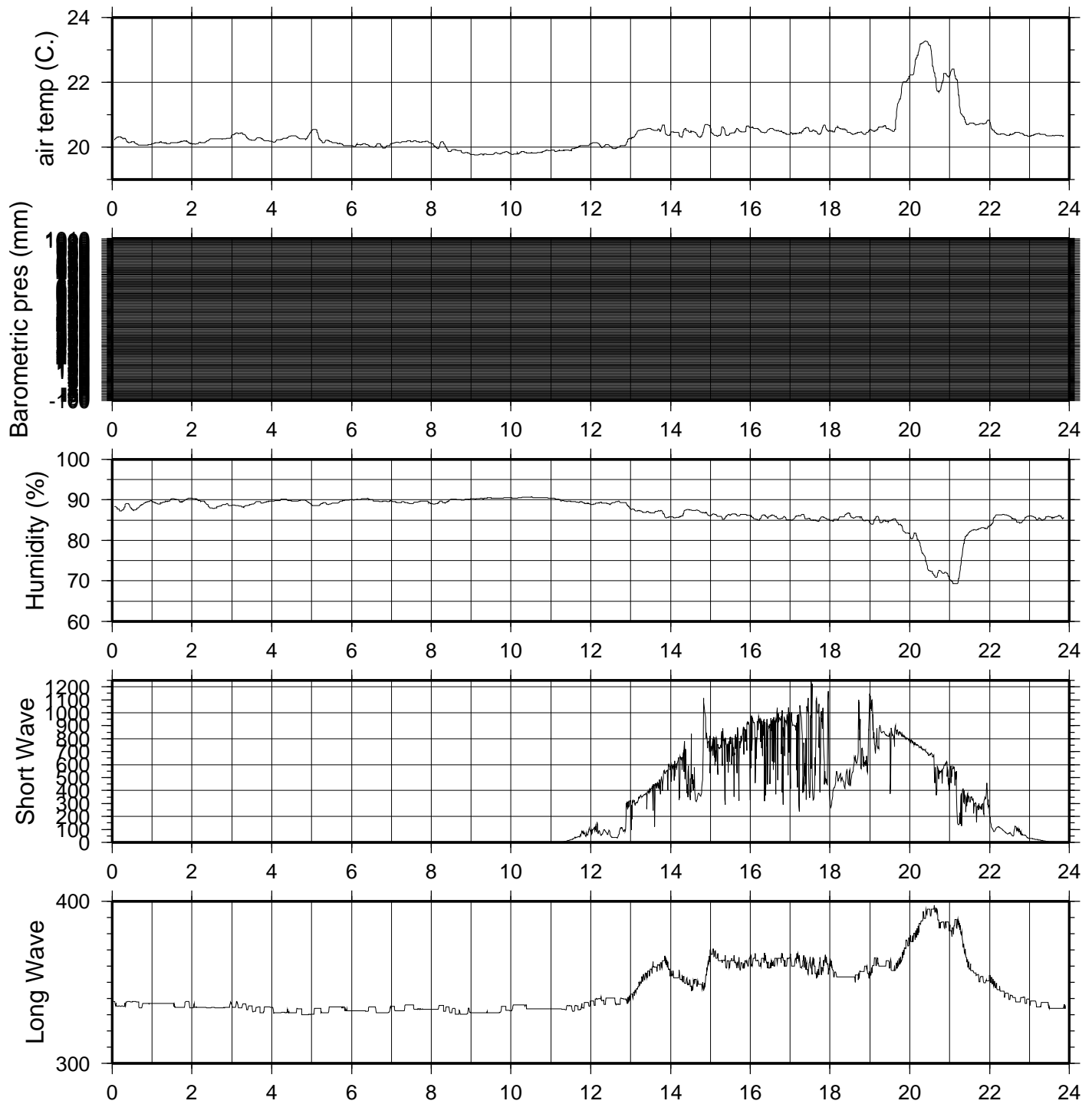


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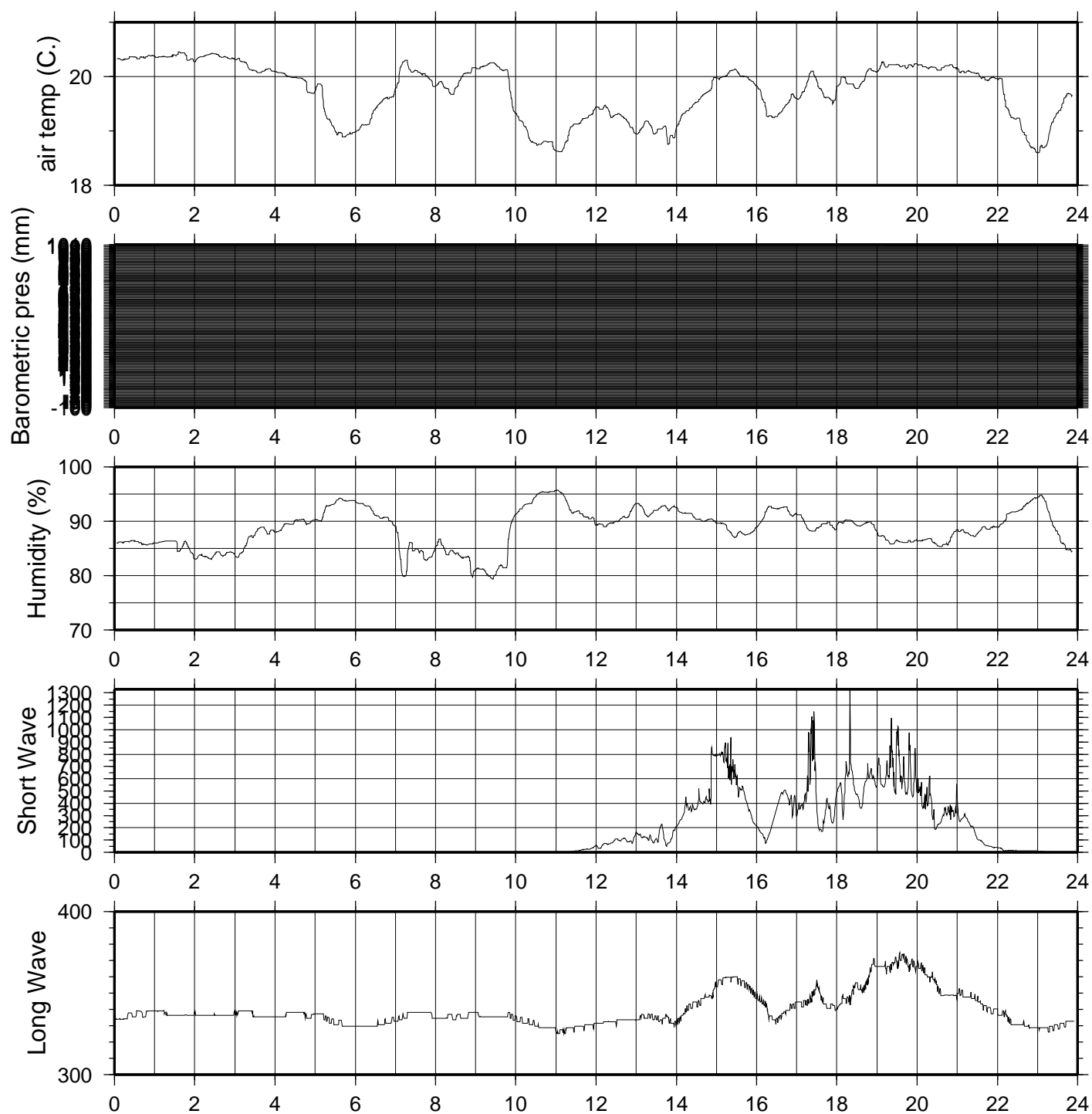




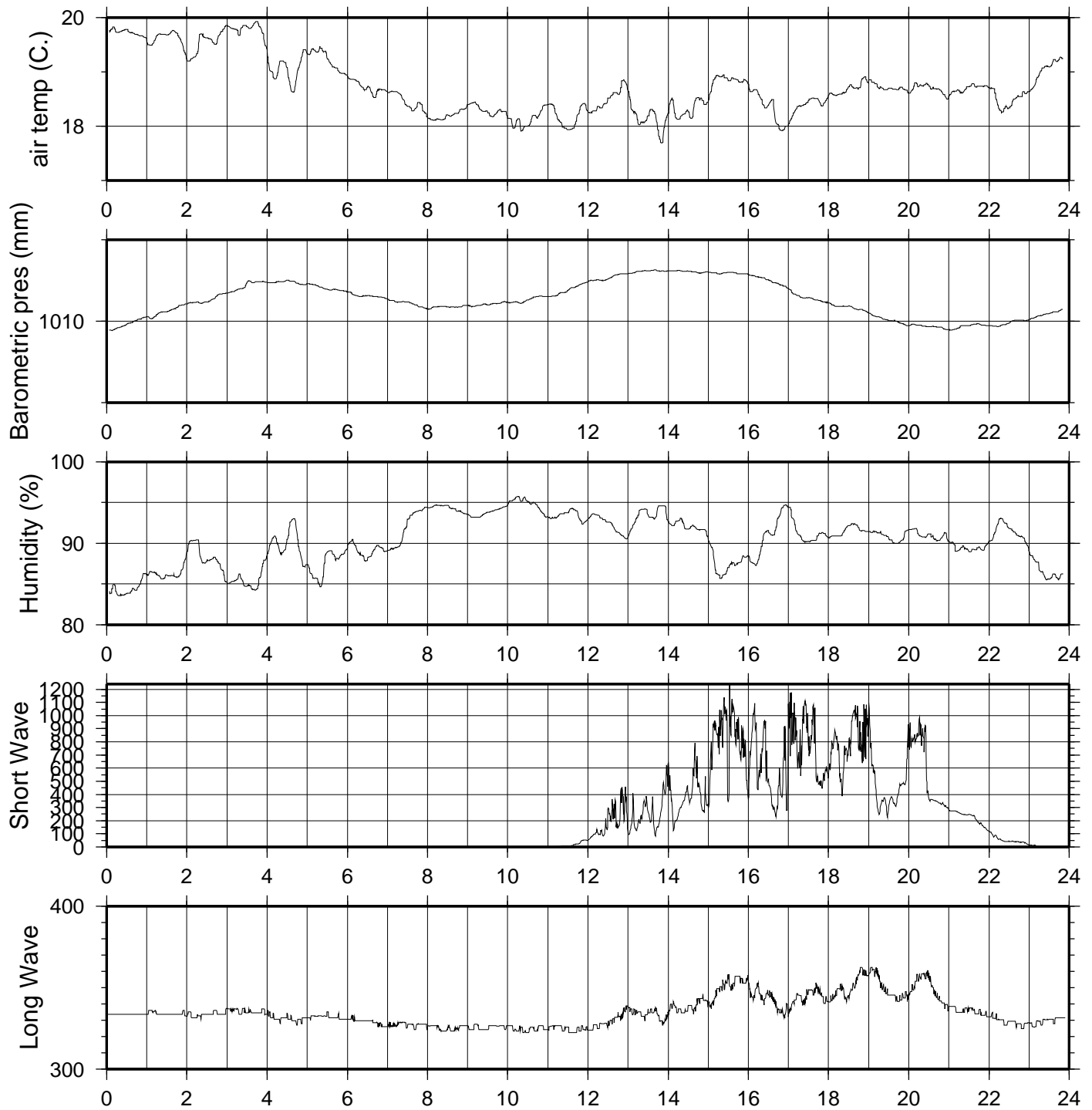
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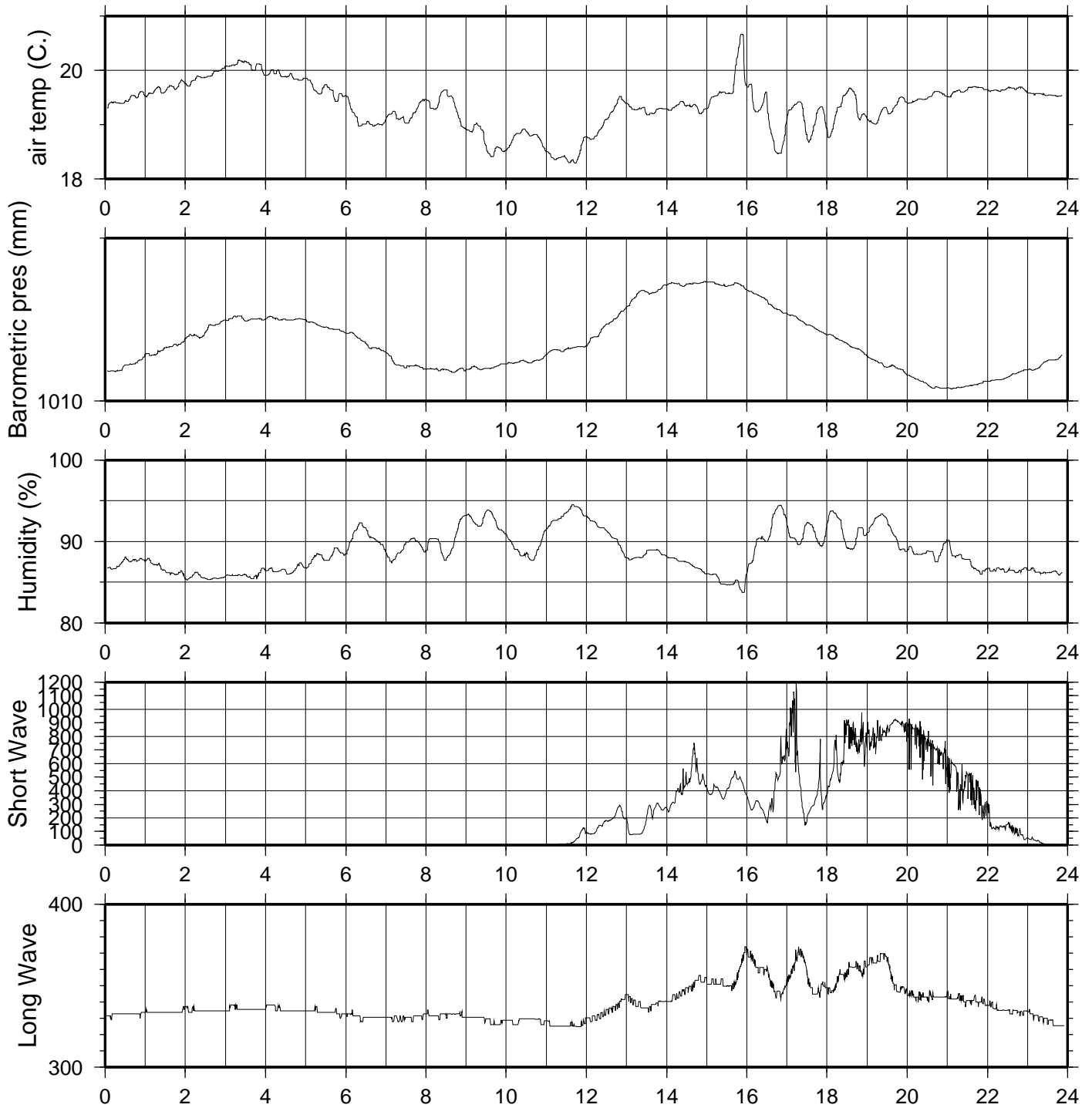
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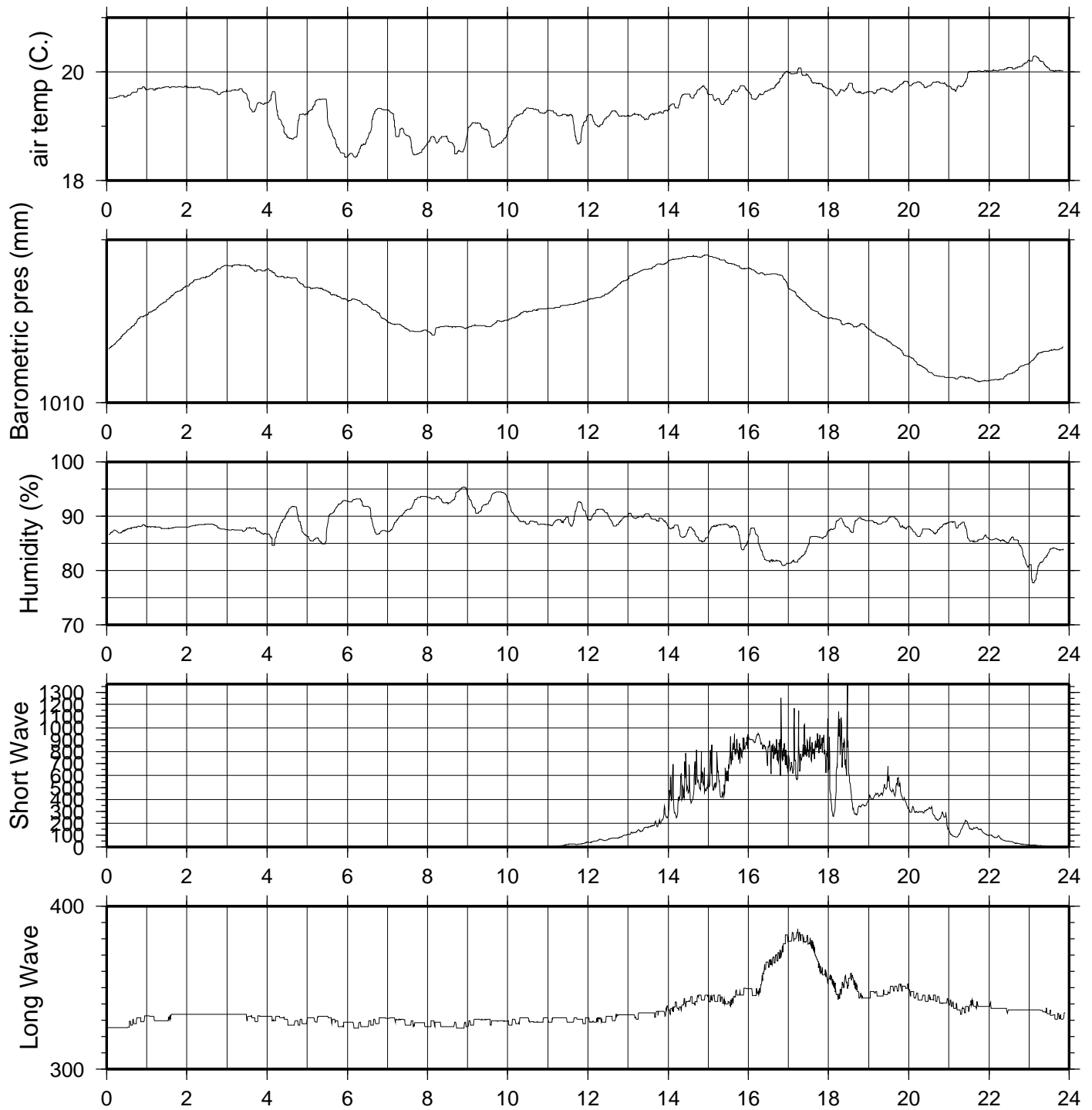
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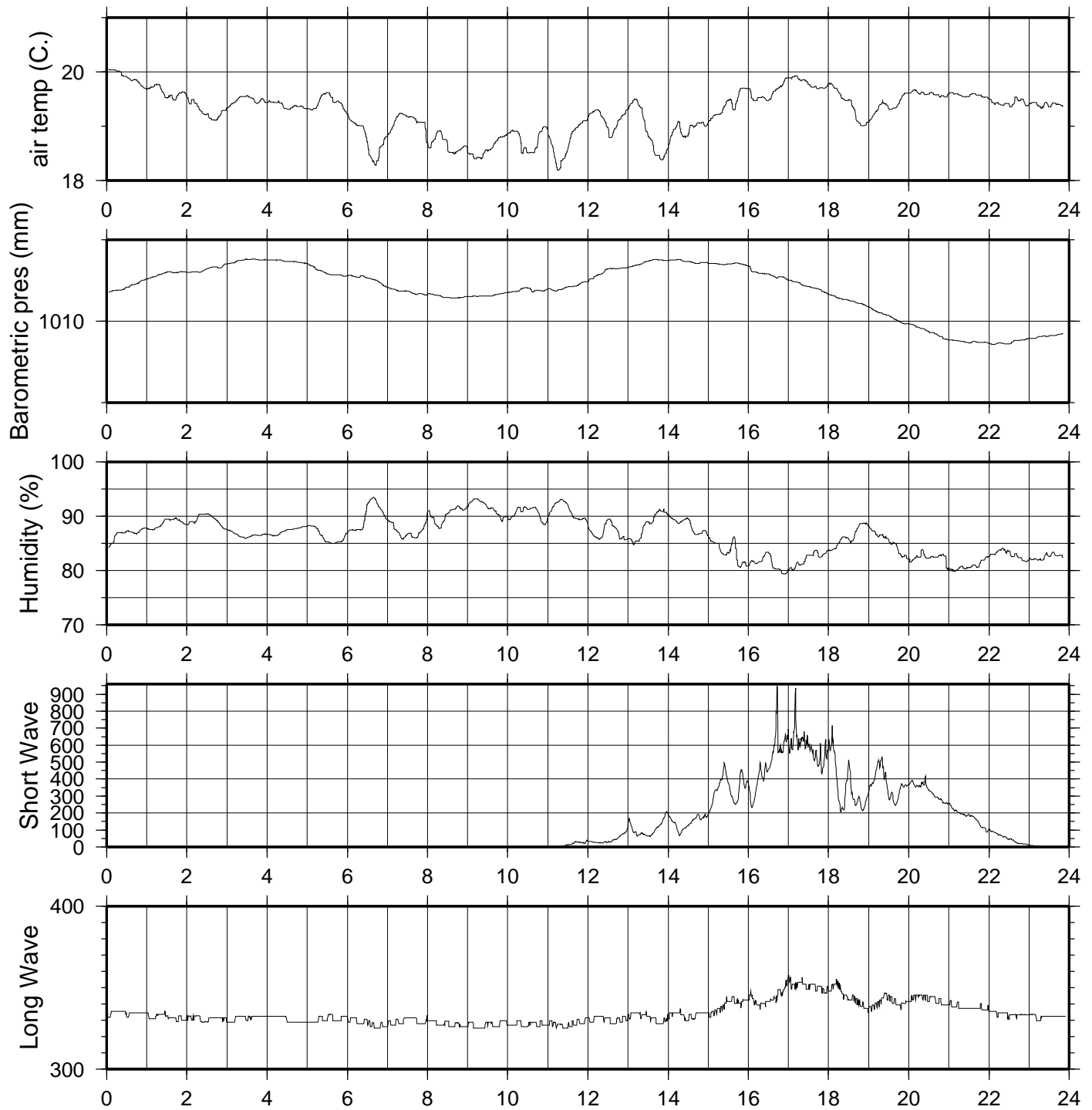
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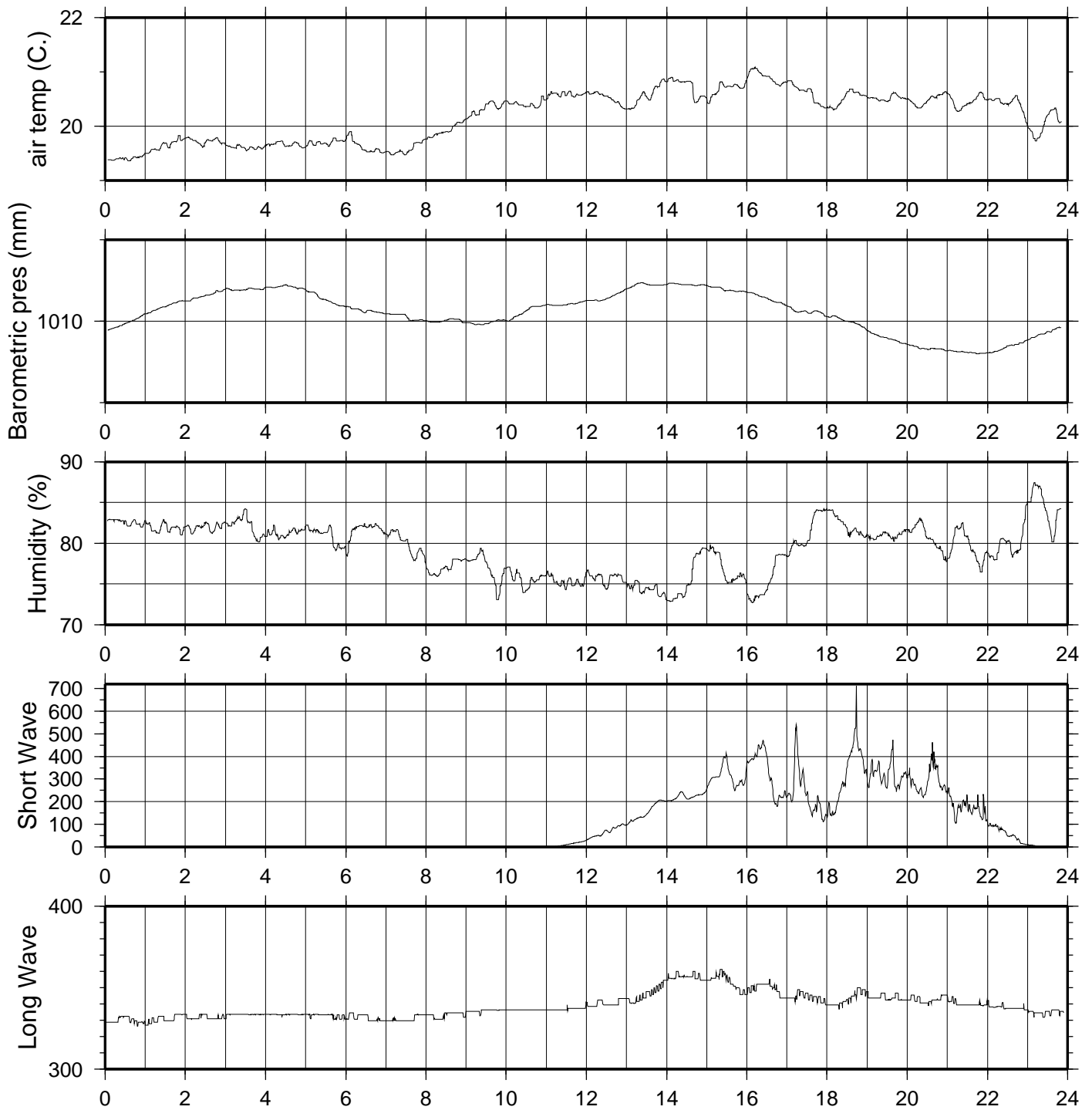
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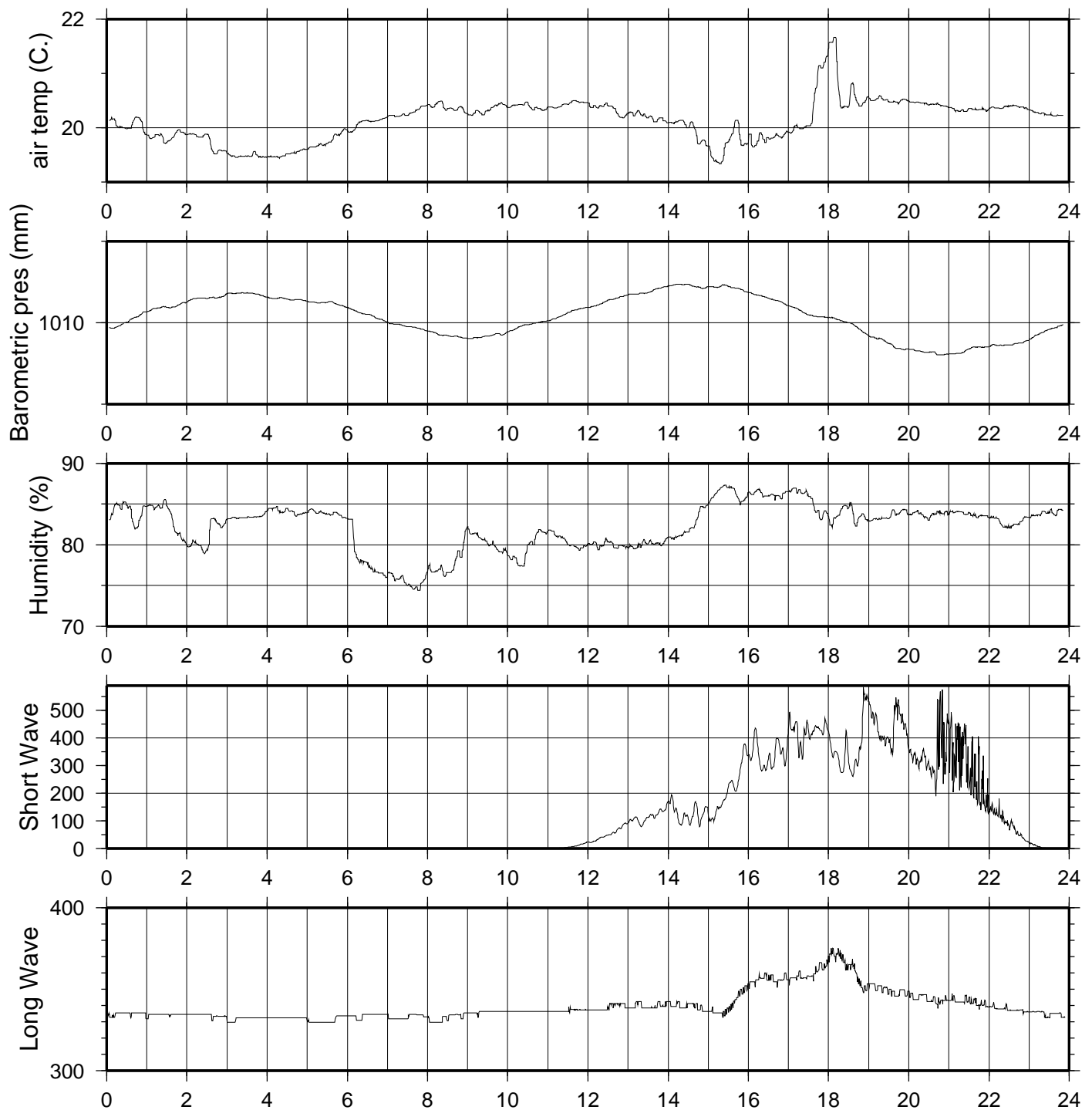
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# Meteorological Data DANA02RR 2003nov01

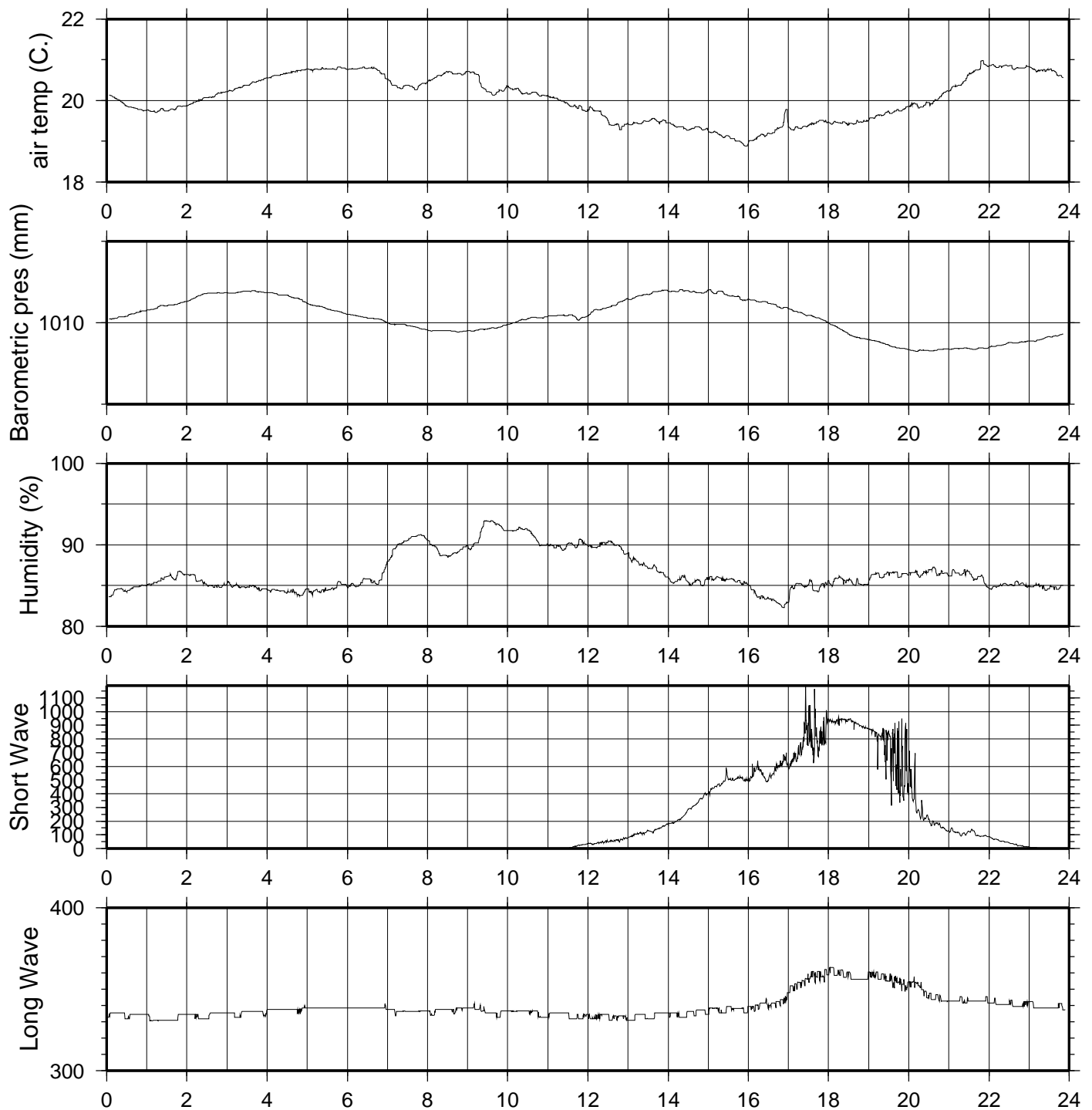


# Meteorological Data DANA02RR 2003nov02

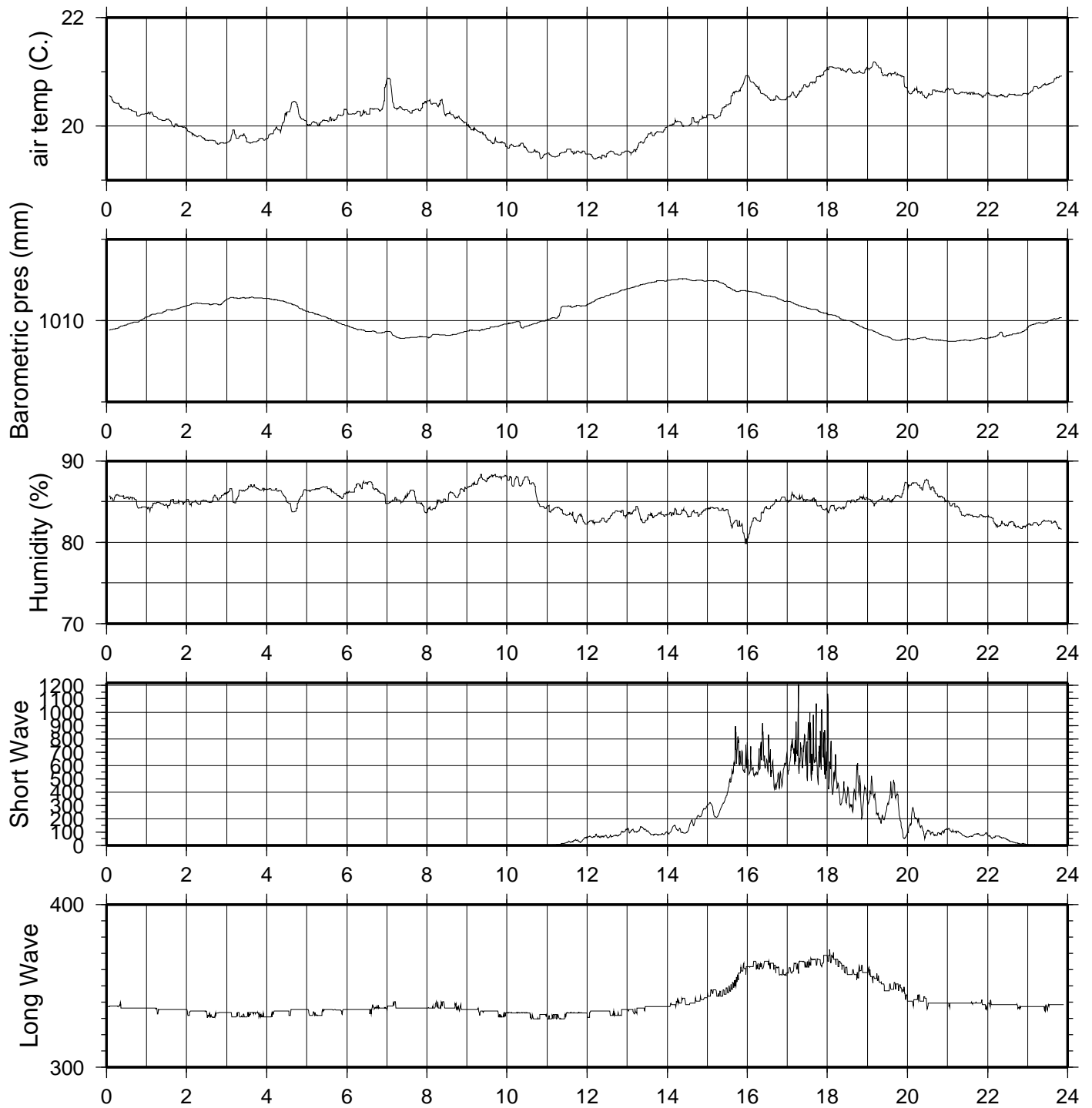




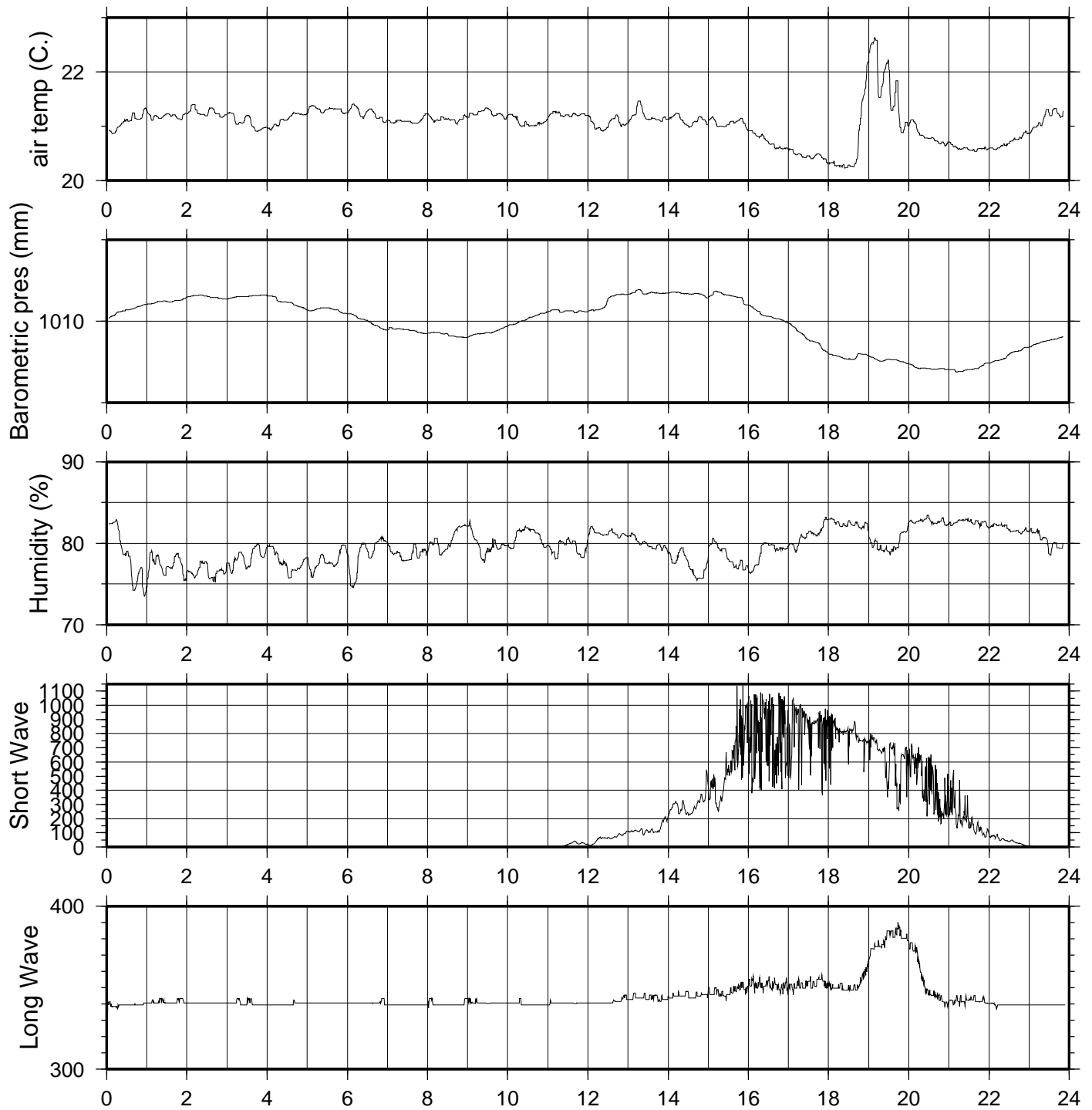
# Meteorological Data DANA02RR 2003nov03



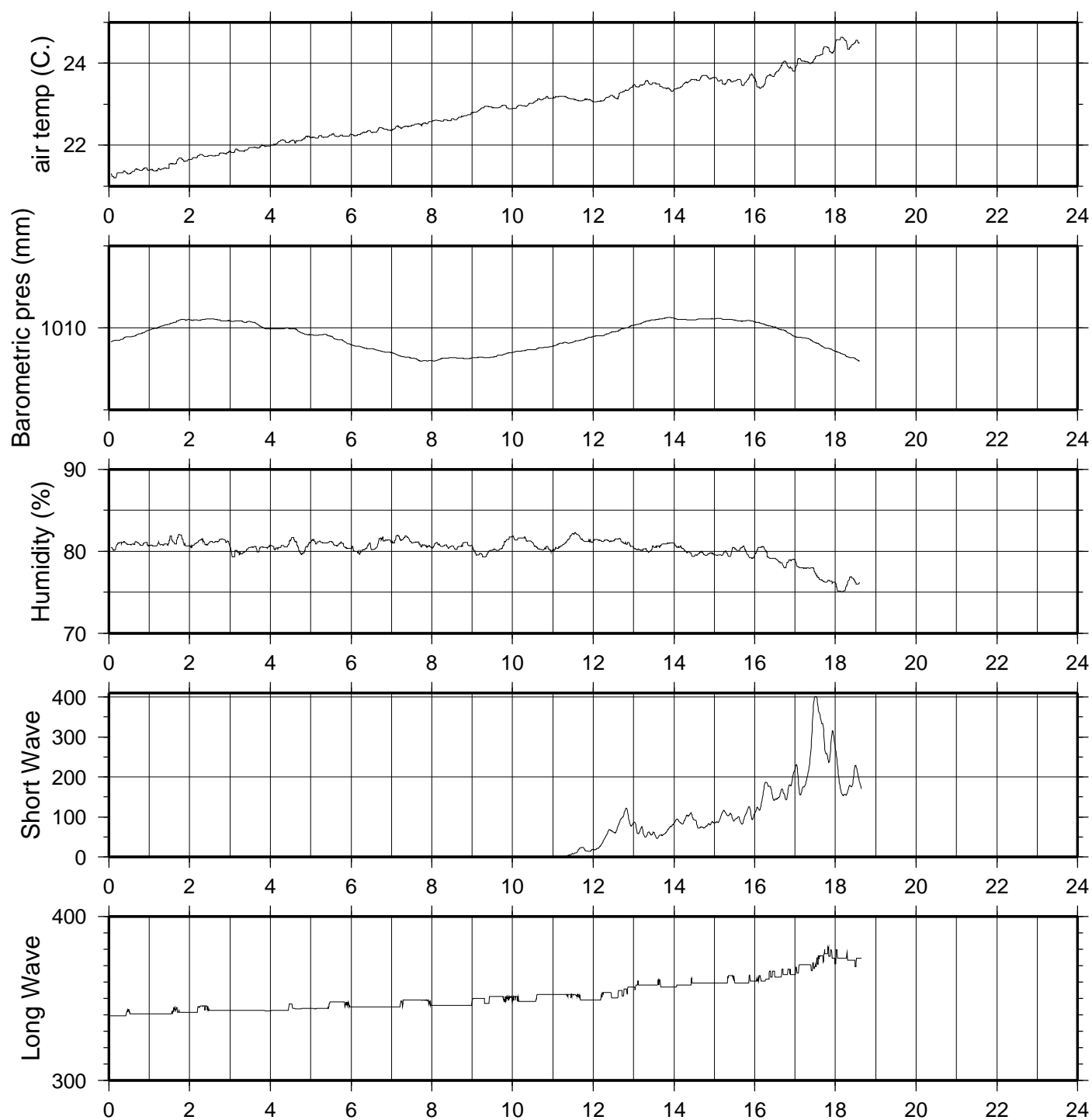
# Meteorological Data DANA02RR 2003nov04



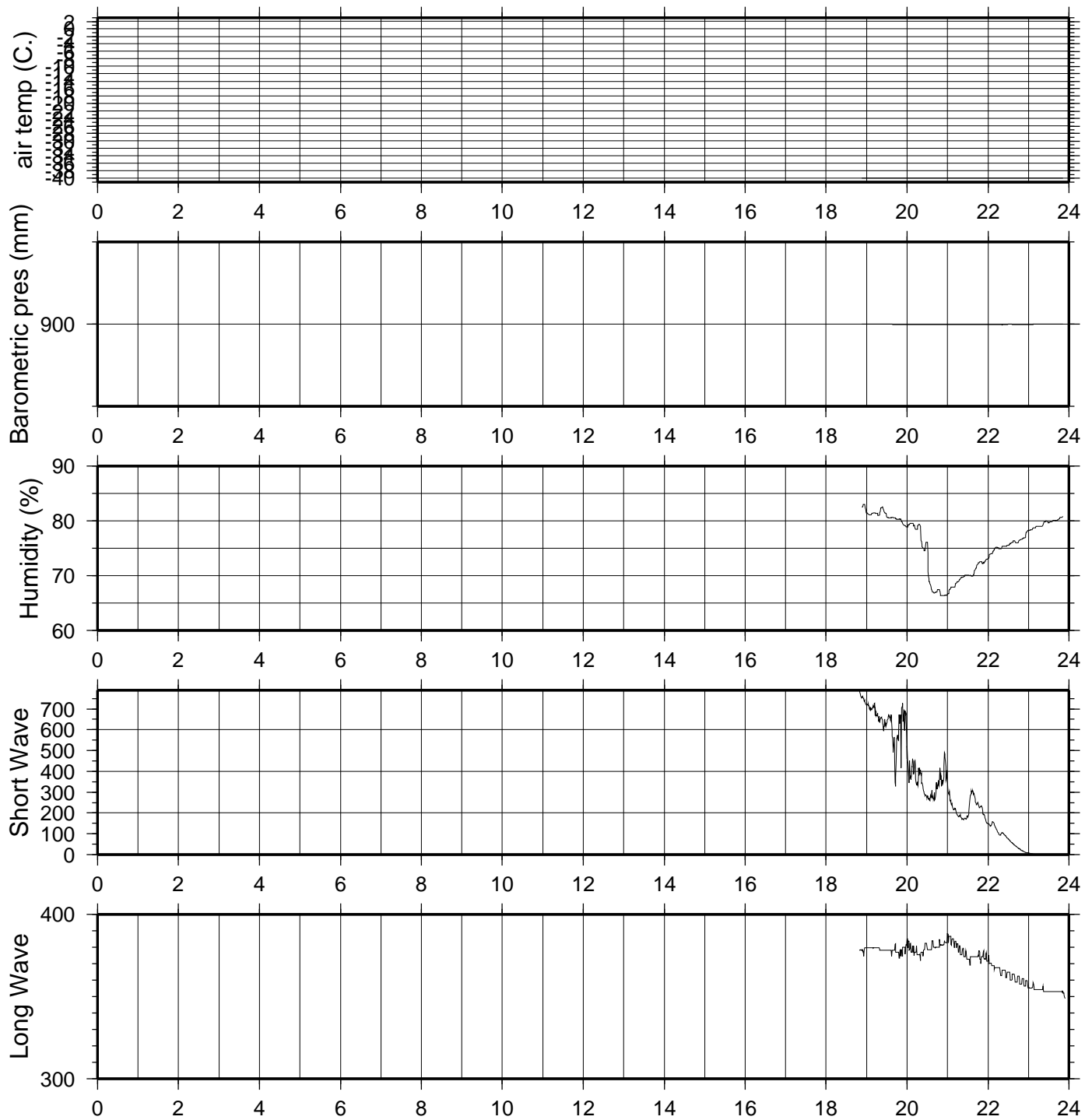
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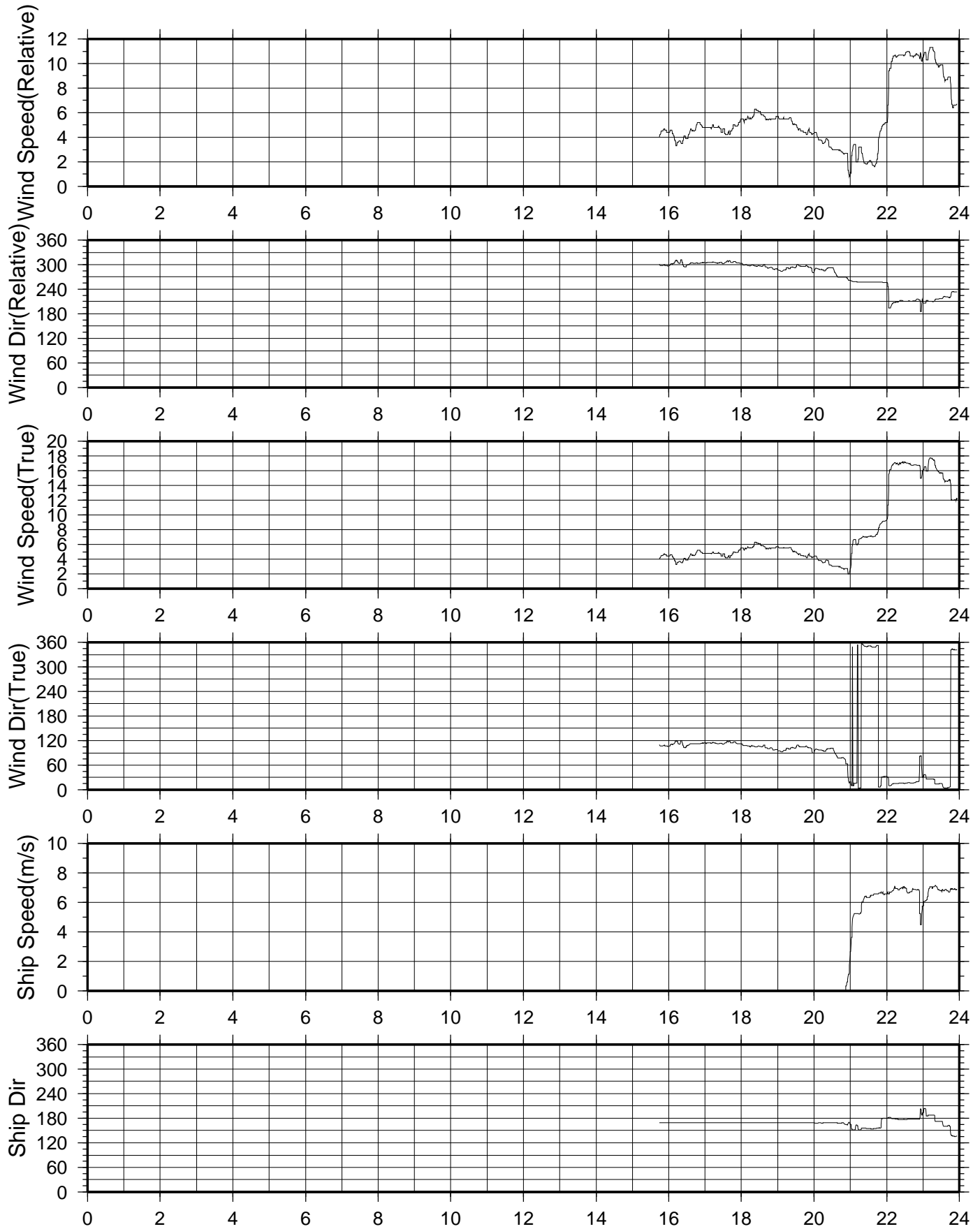
# Meteorological Data DANA02RR 2003nov06.1



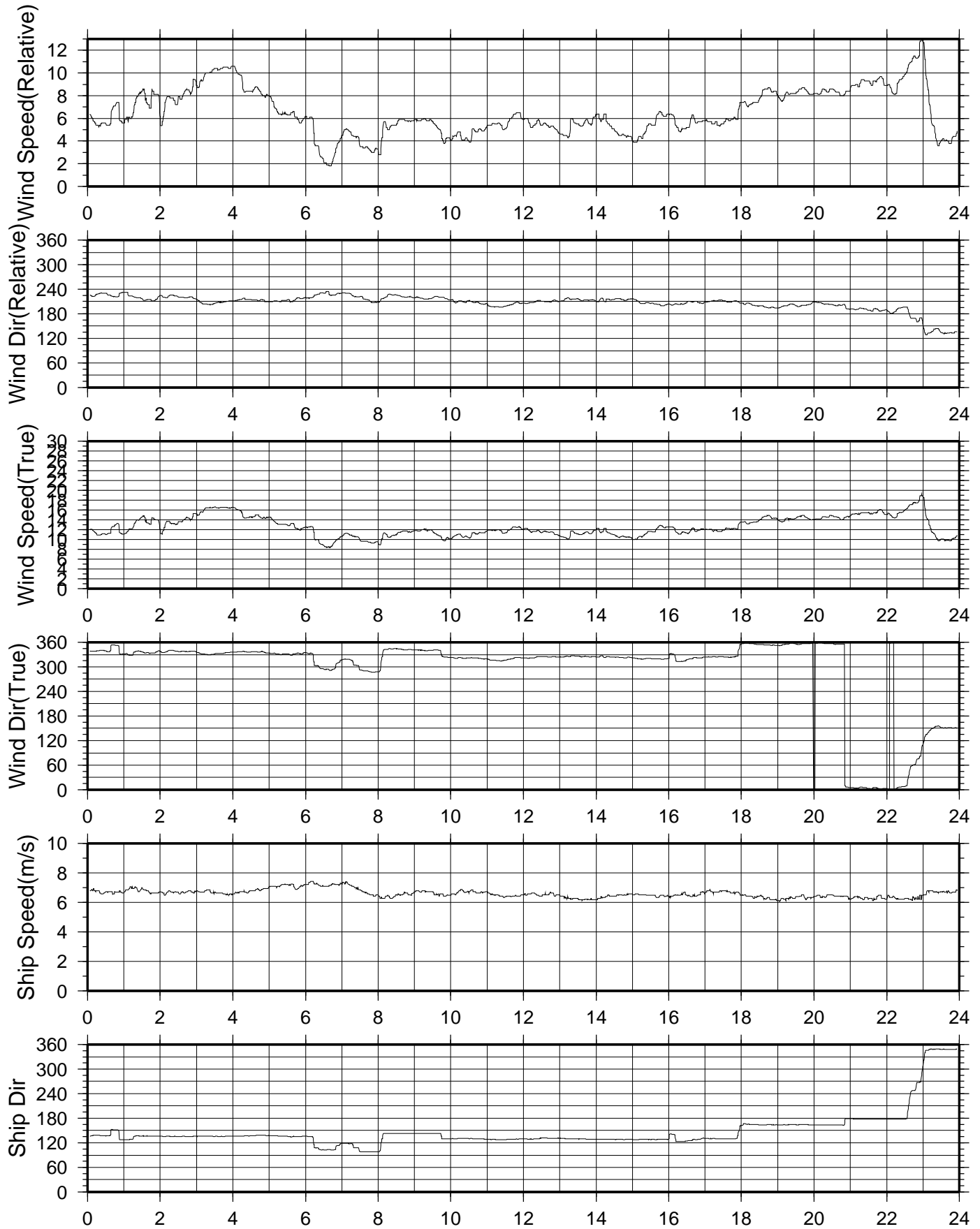
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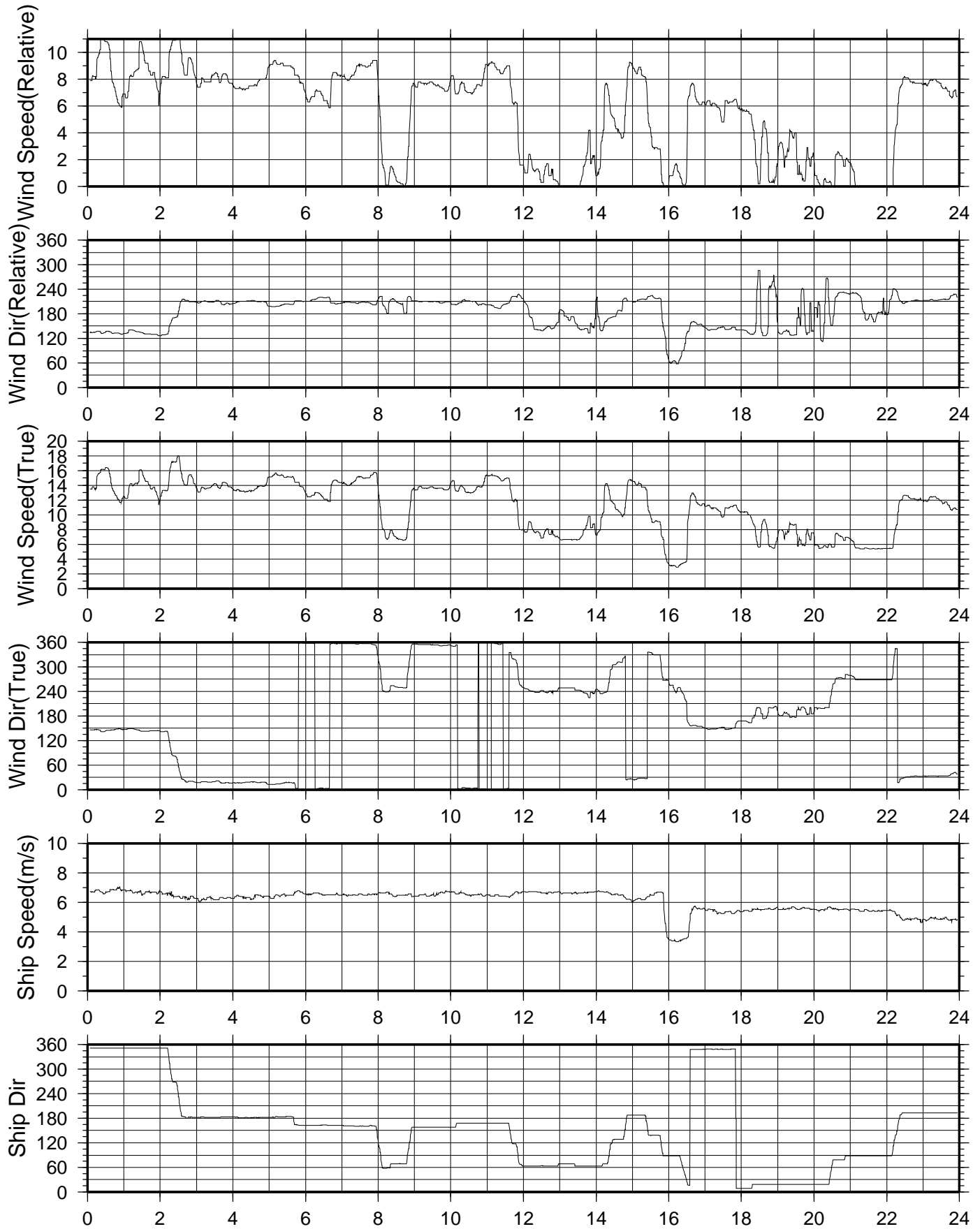
# Wind Data DANA02RR 2003oct10



# Wind Data DANA02RR 2003oct11

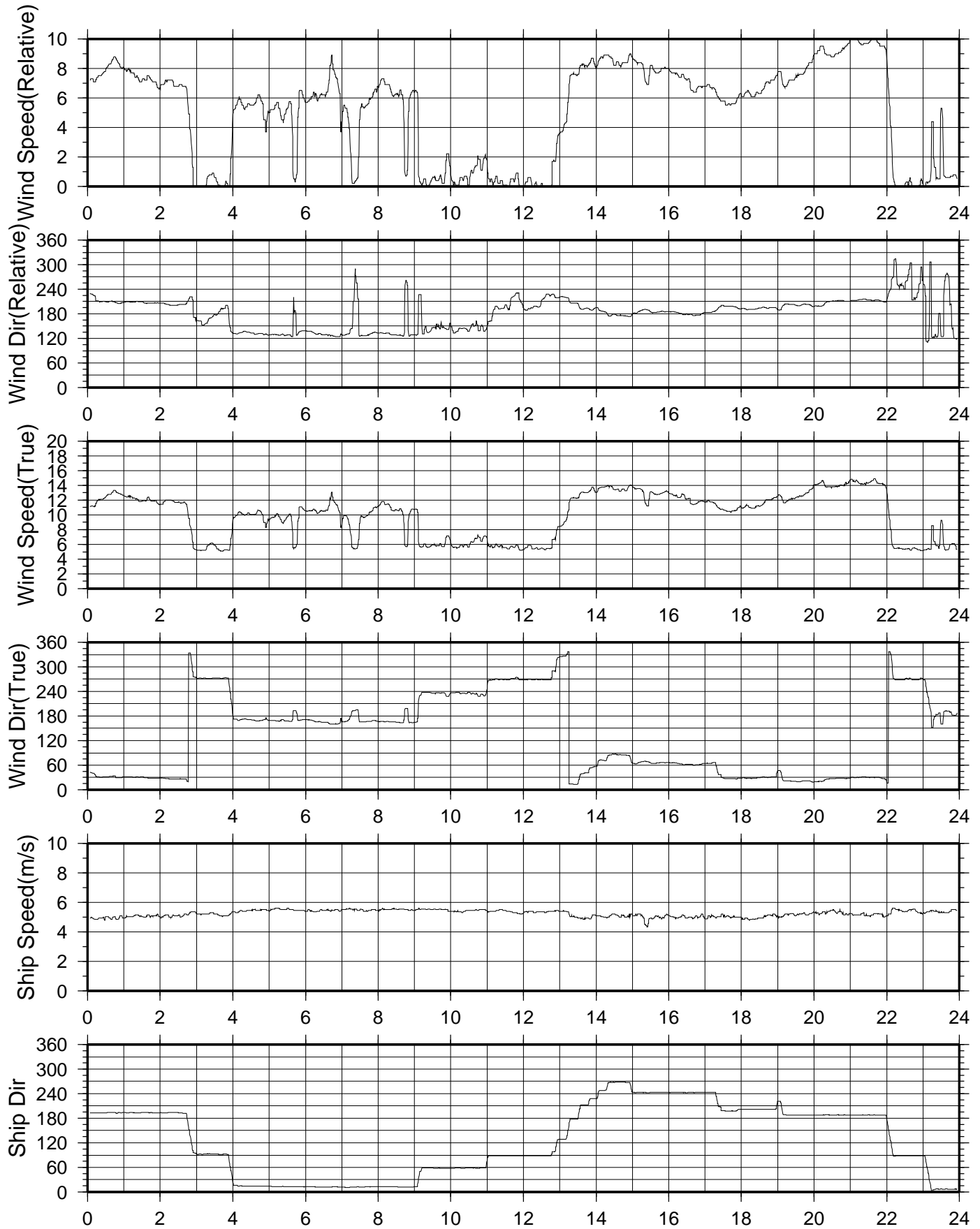


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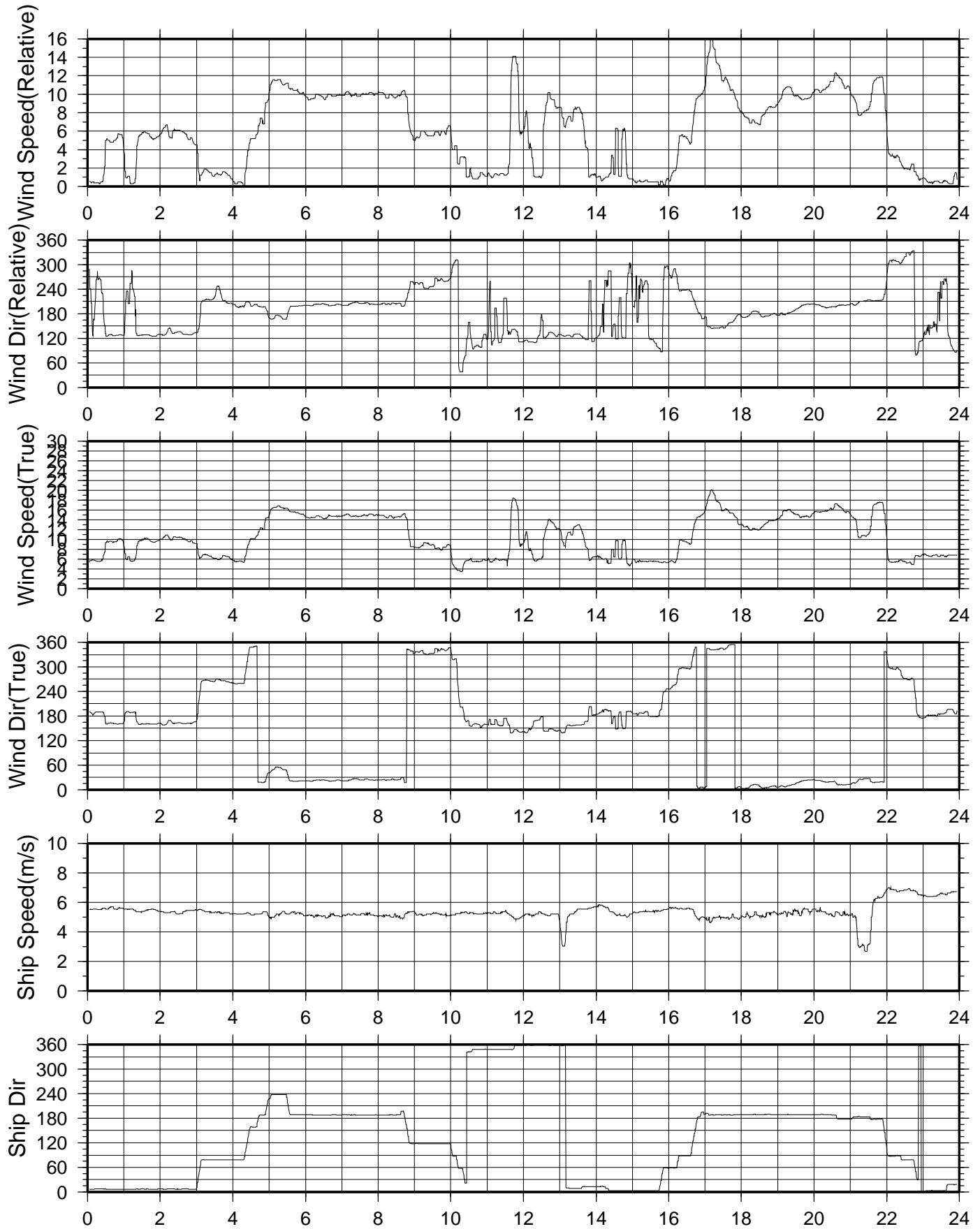




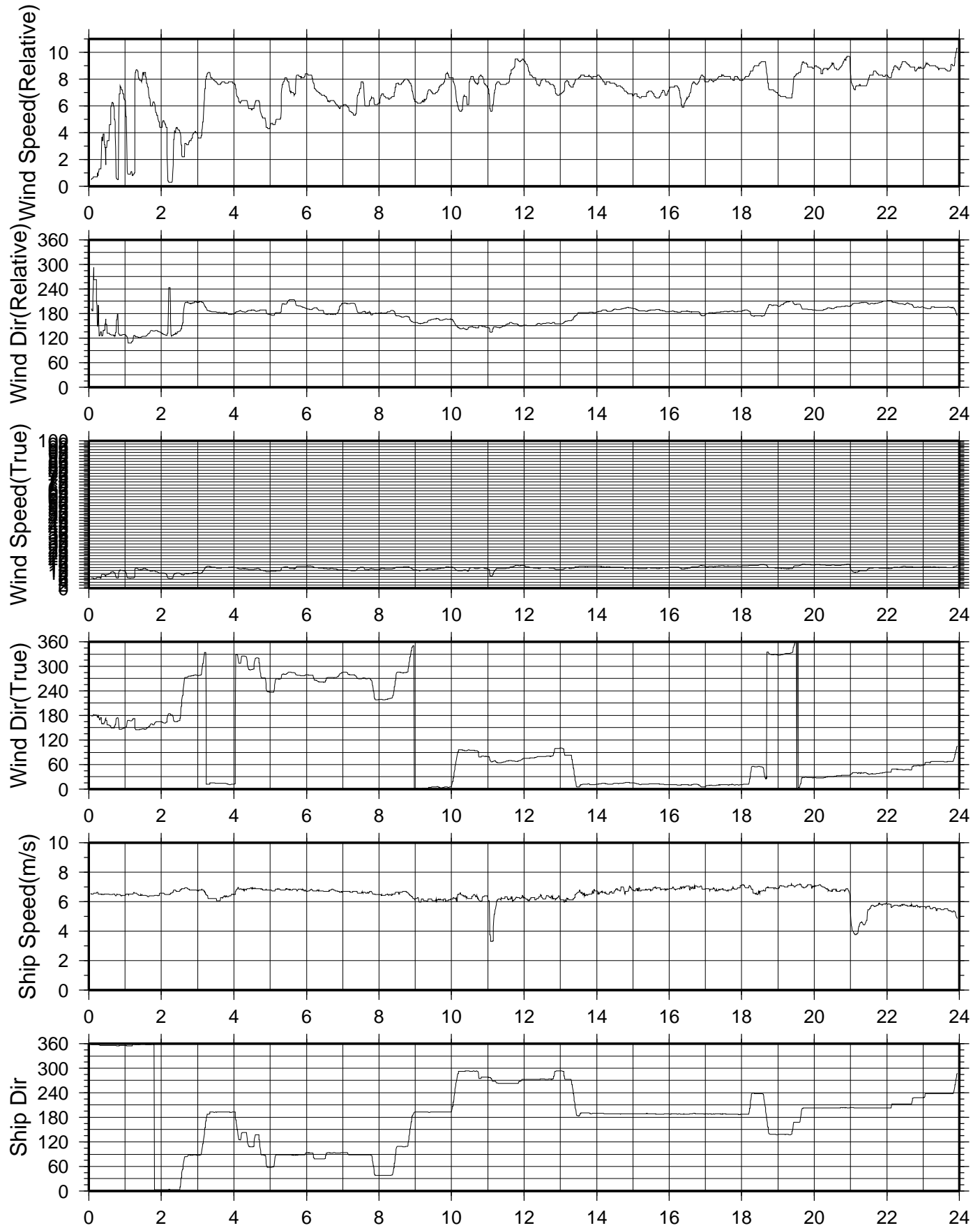
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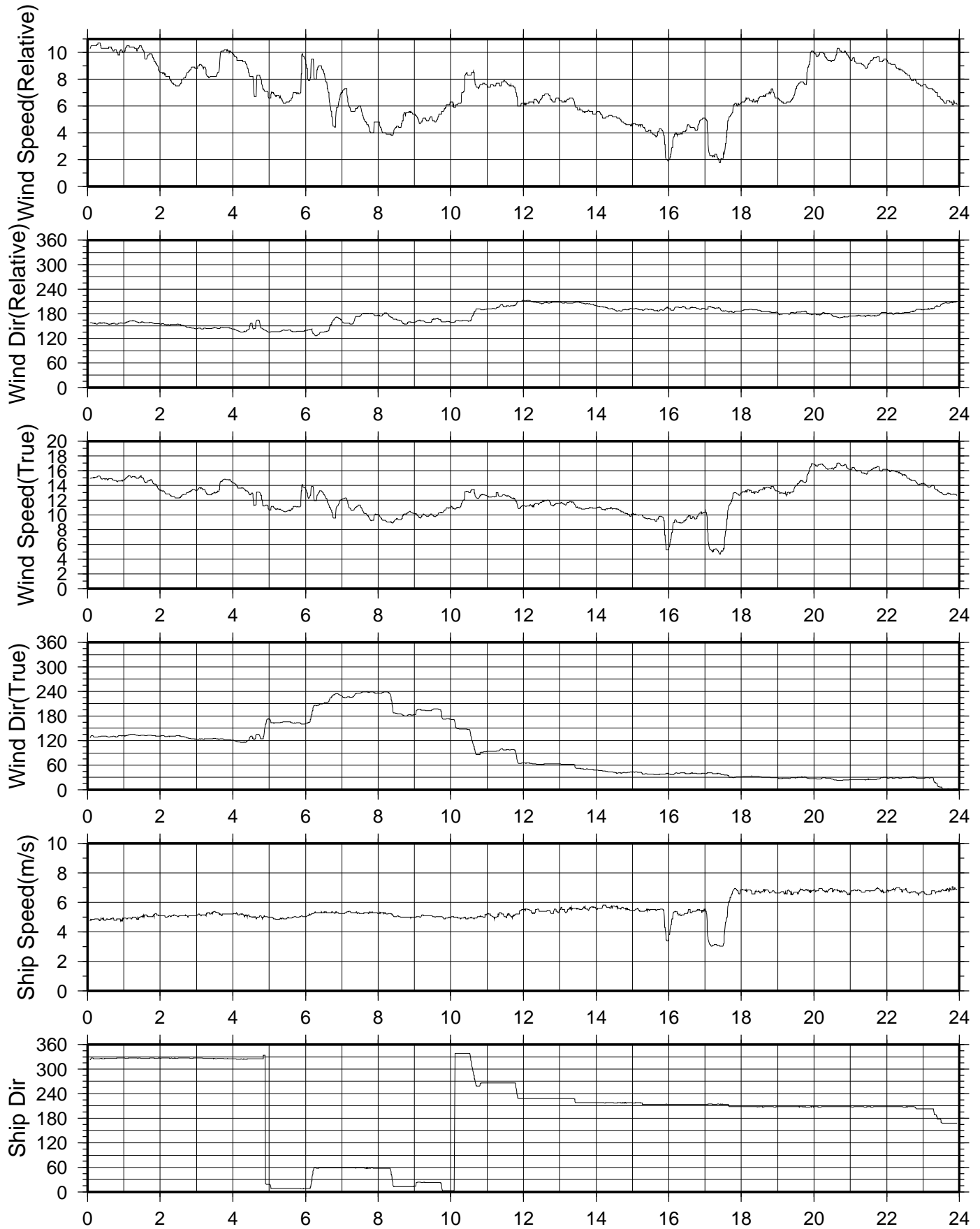
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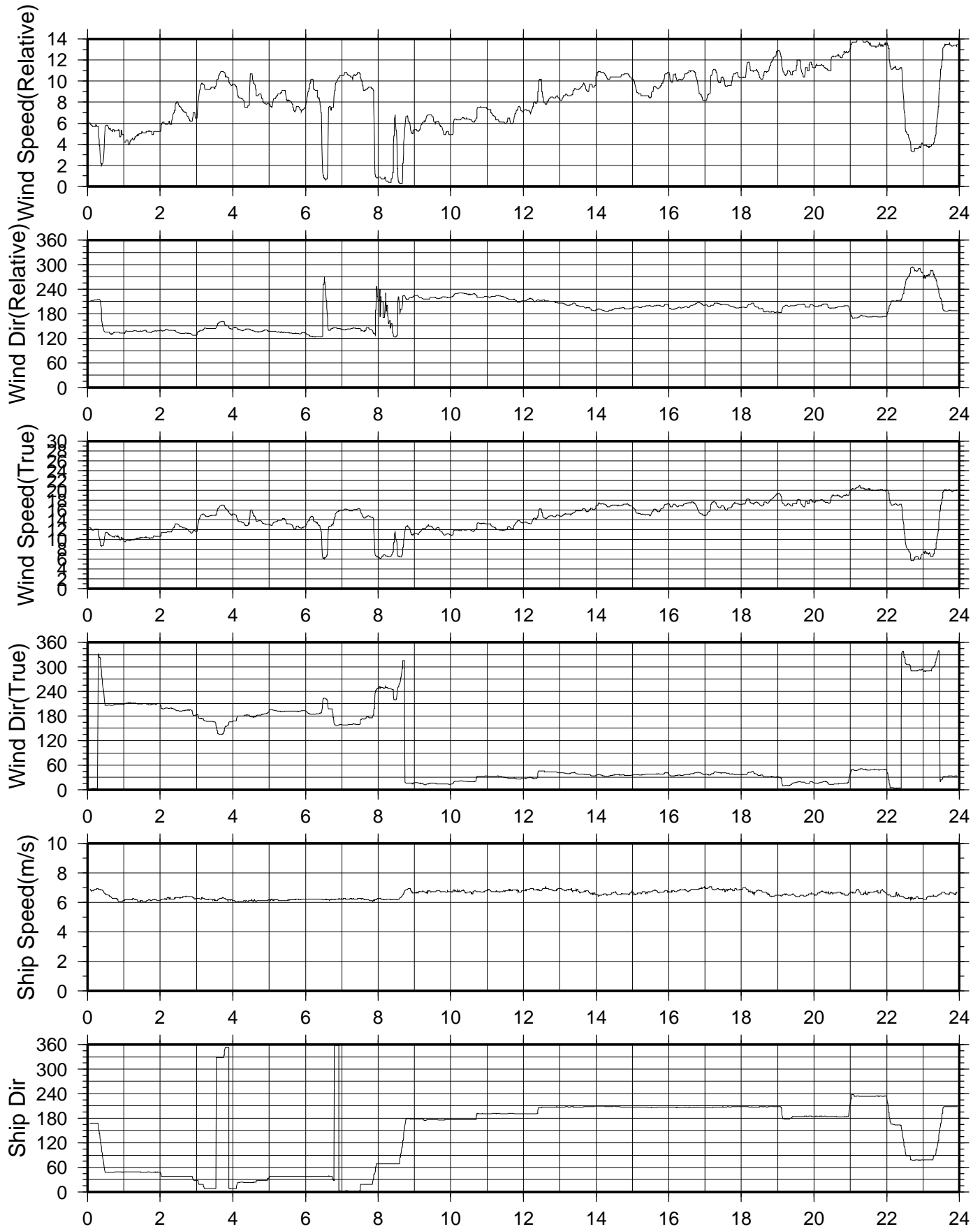
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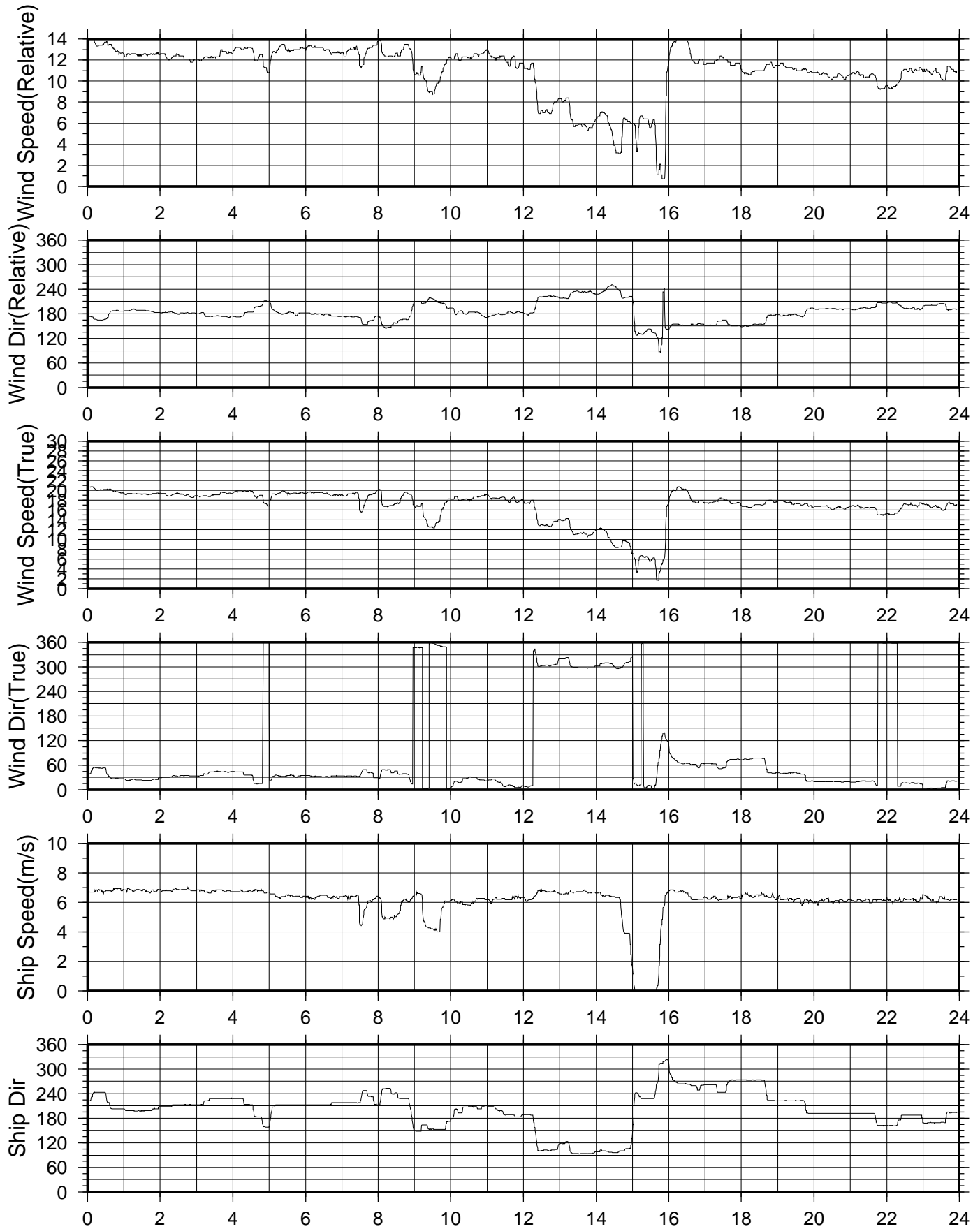
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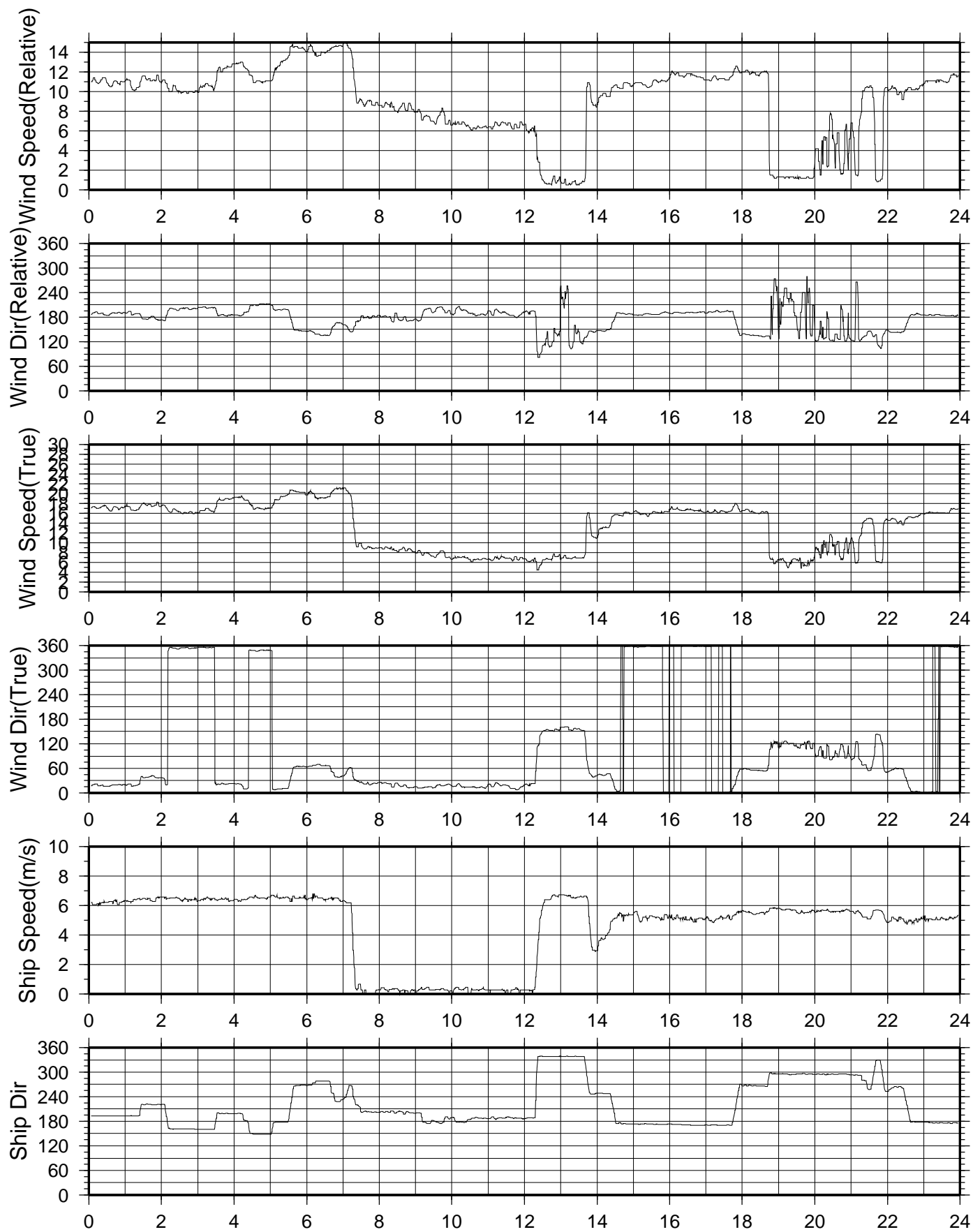
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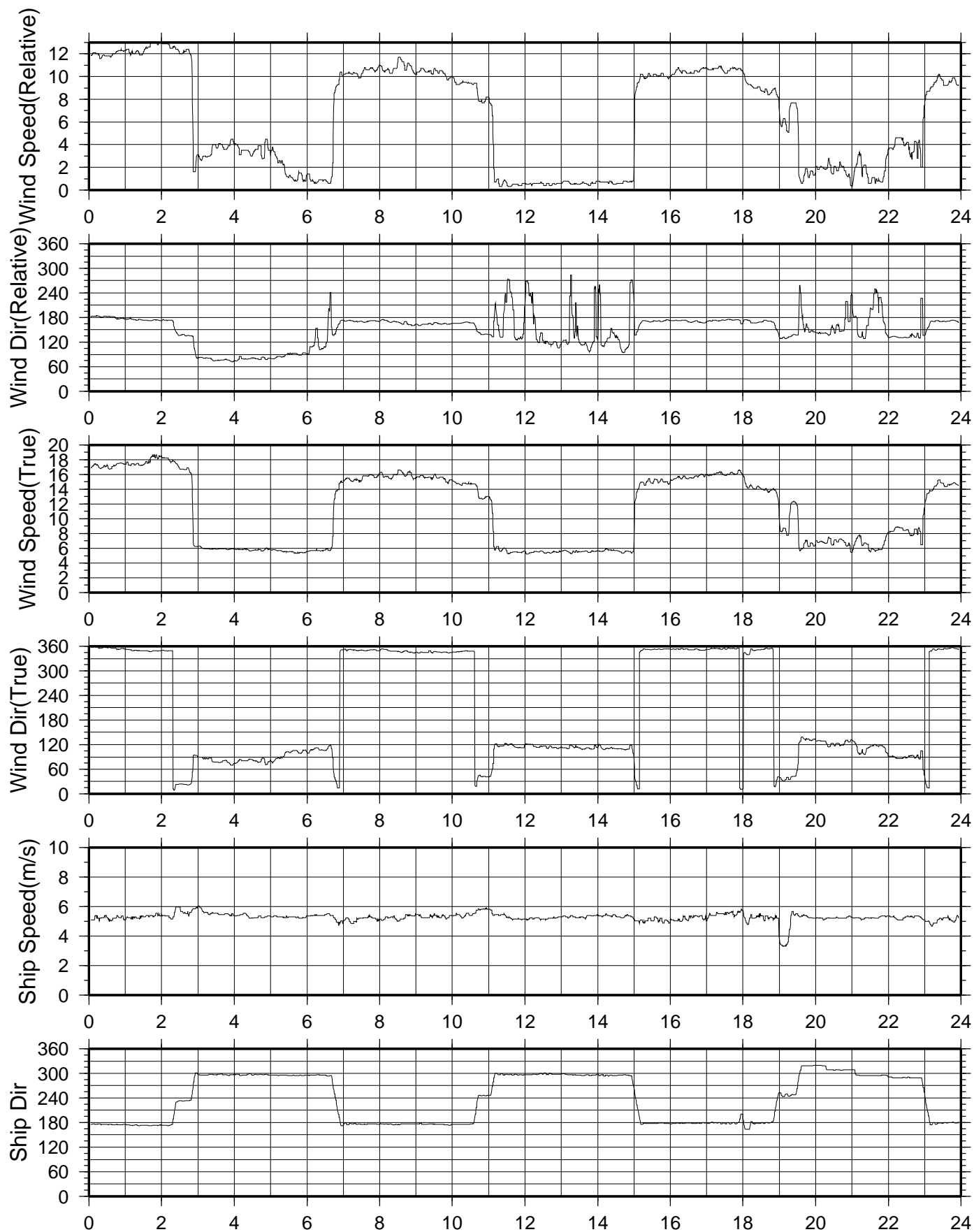
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# Wind Data DANA02RR 2003oct19

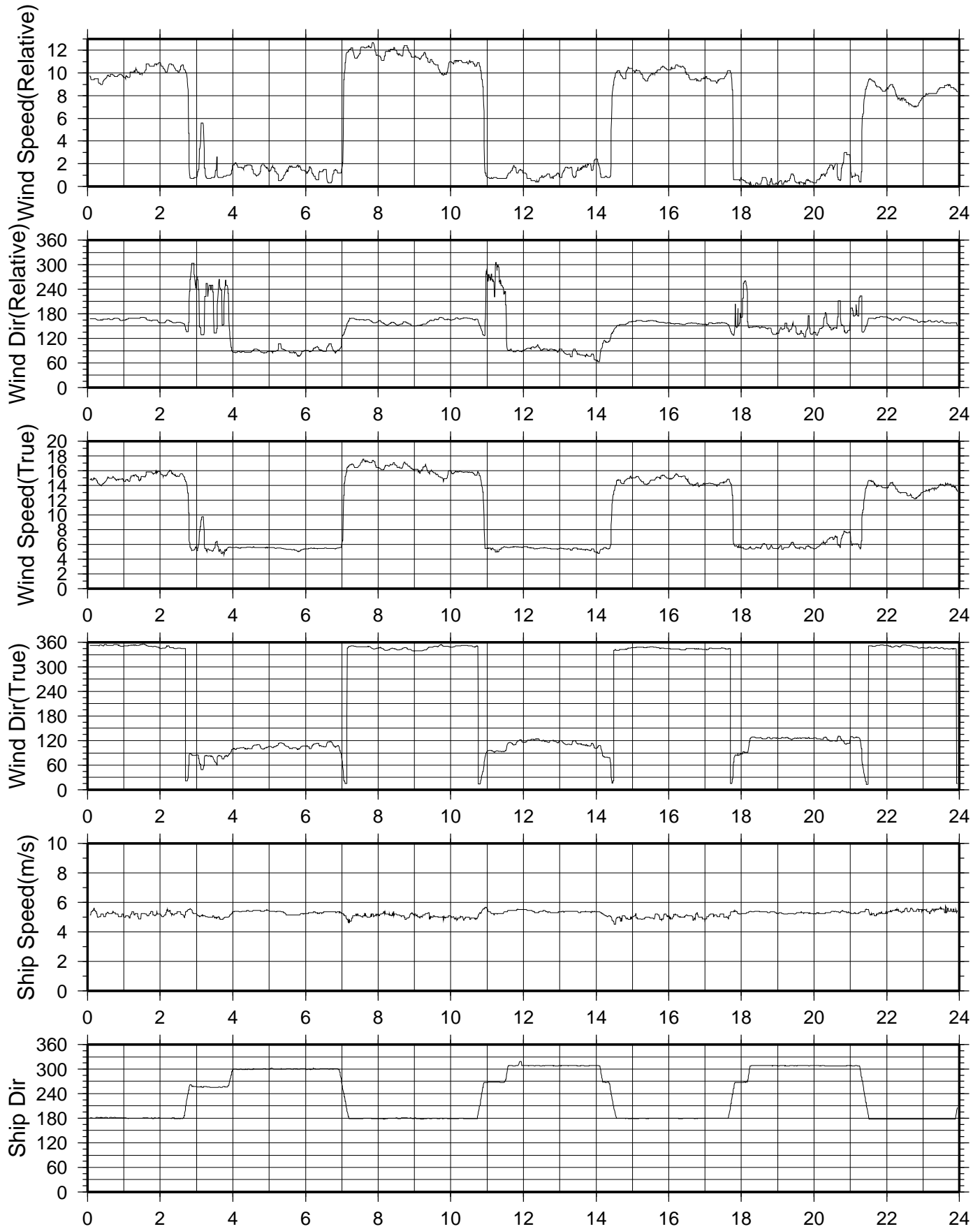


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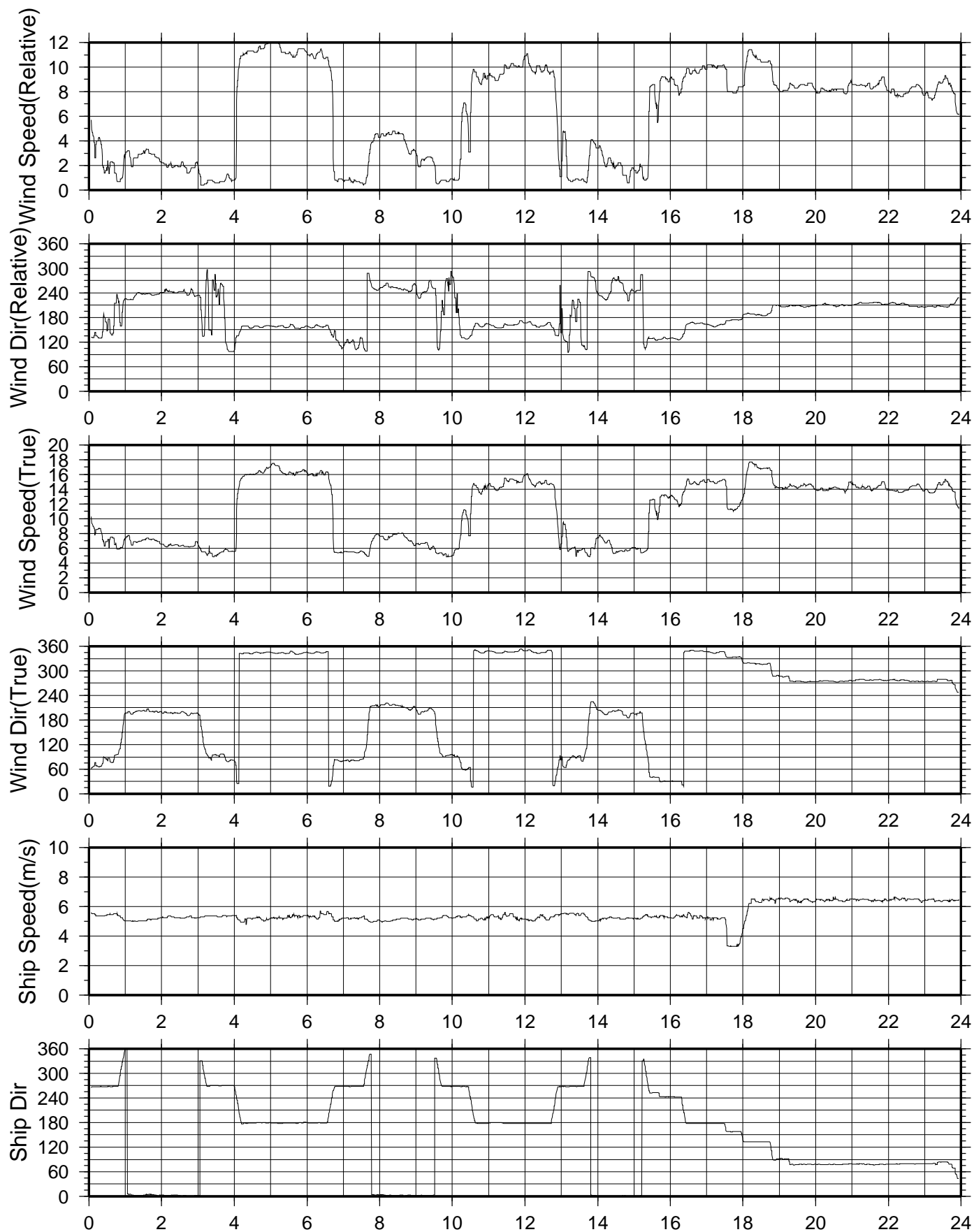




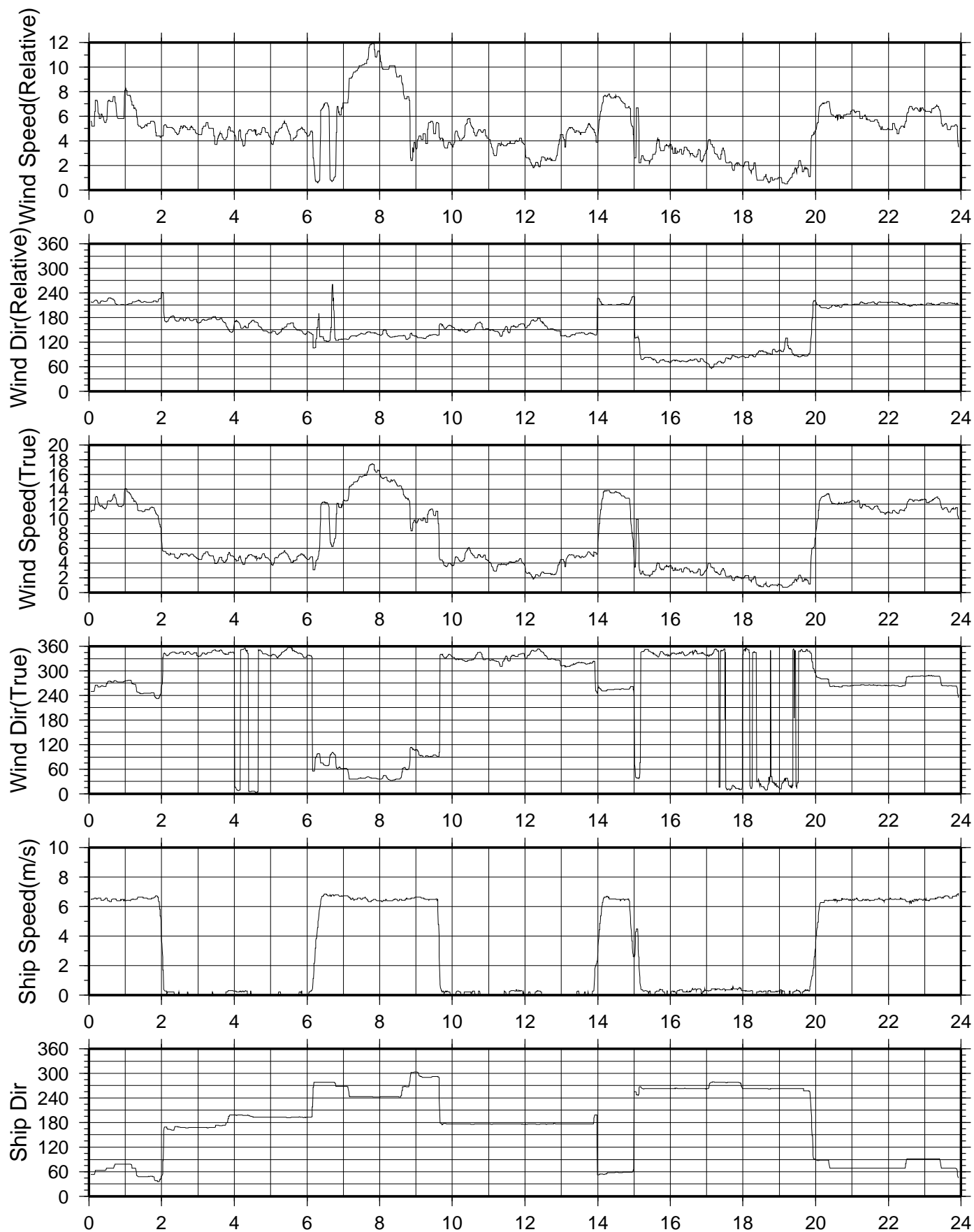
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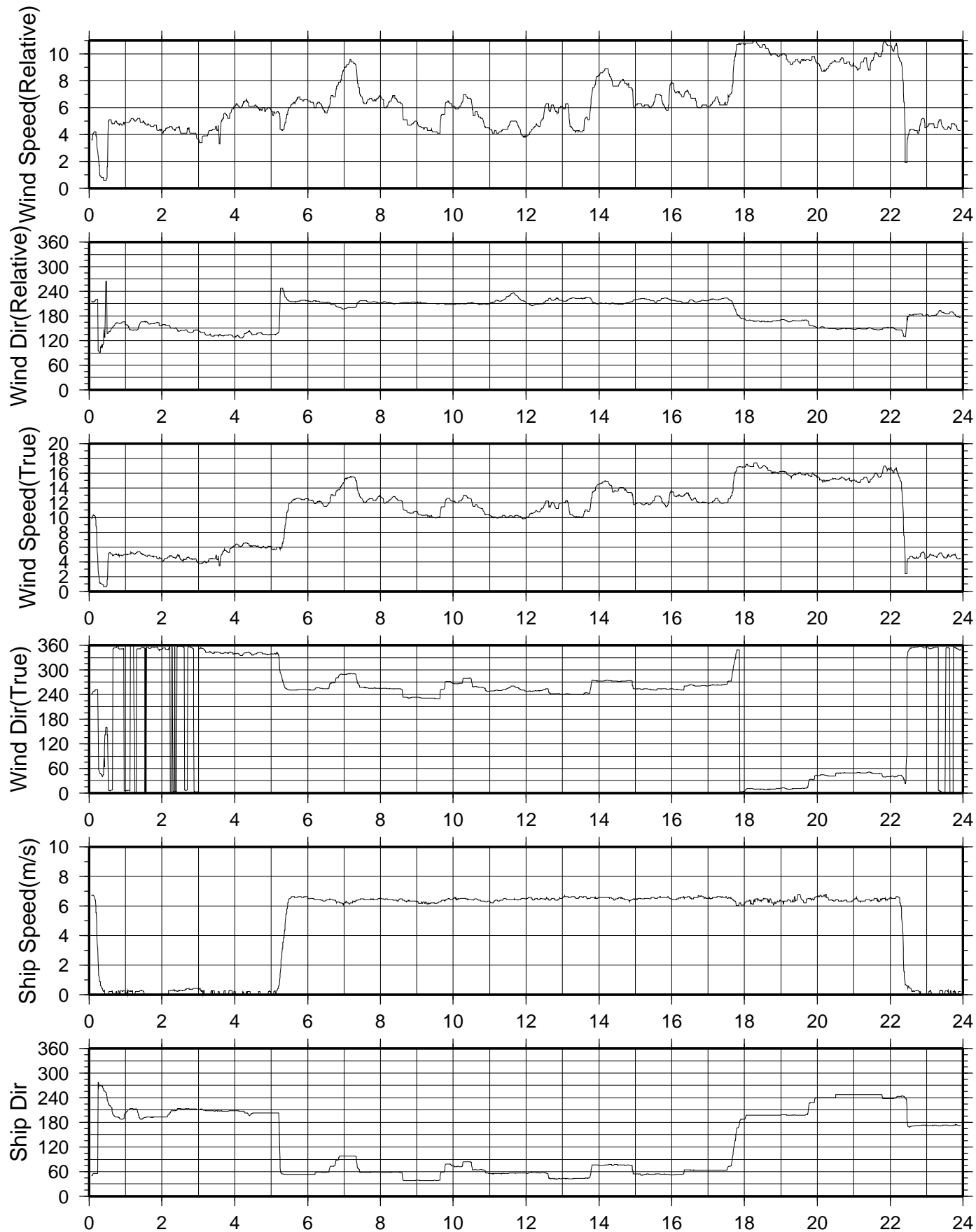
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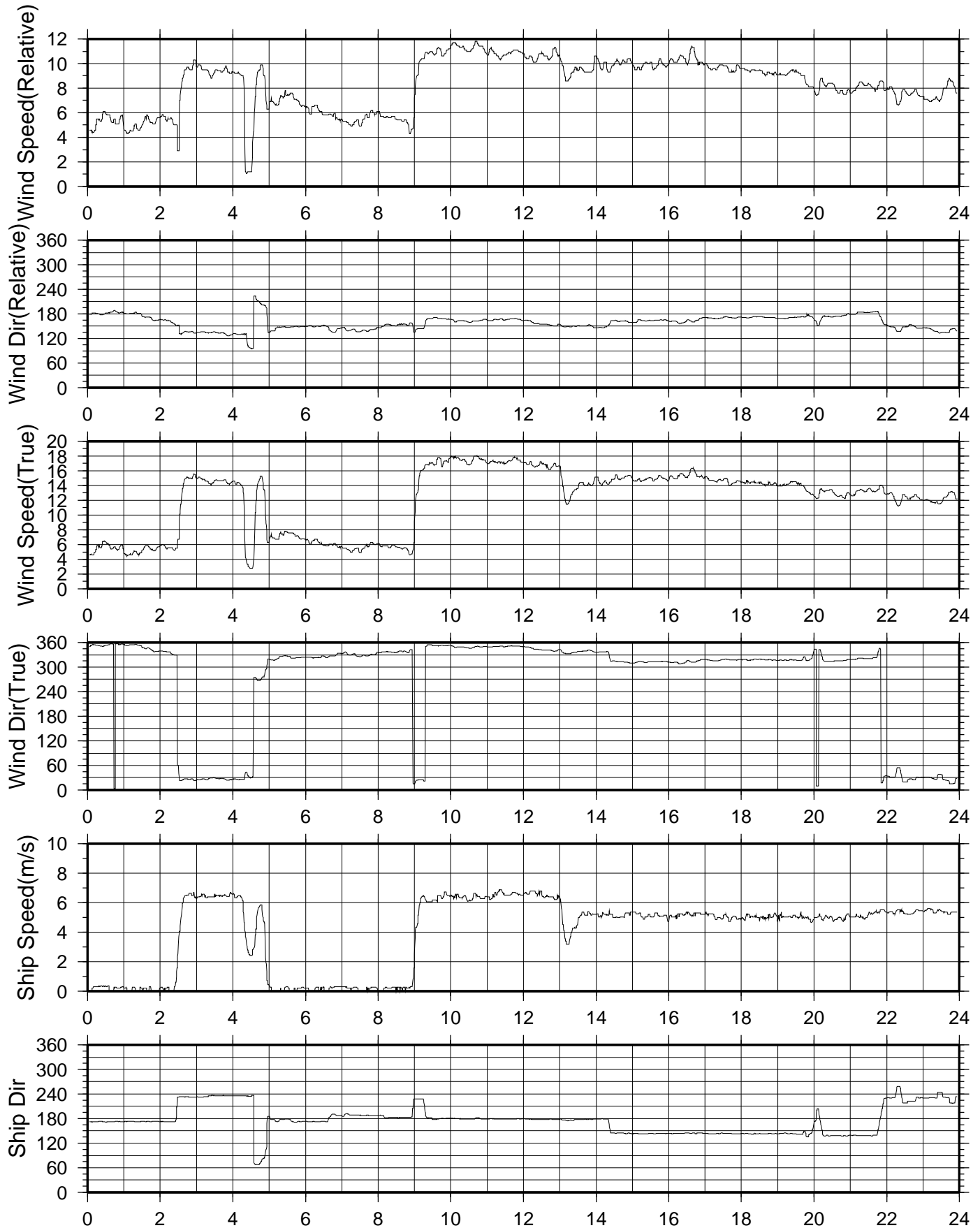
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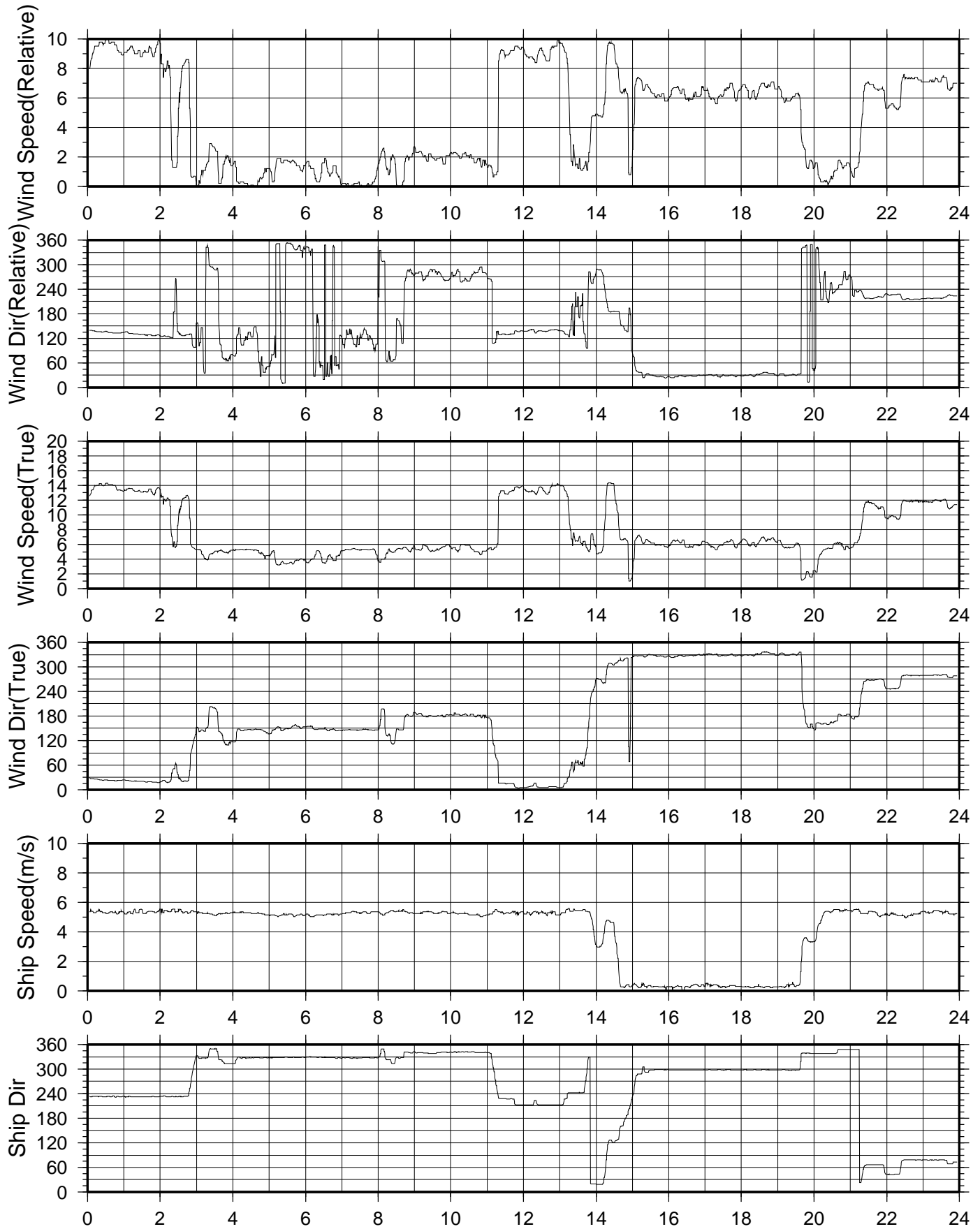
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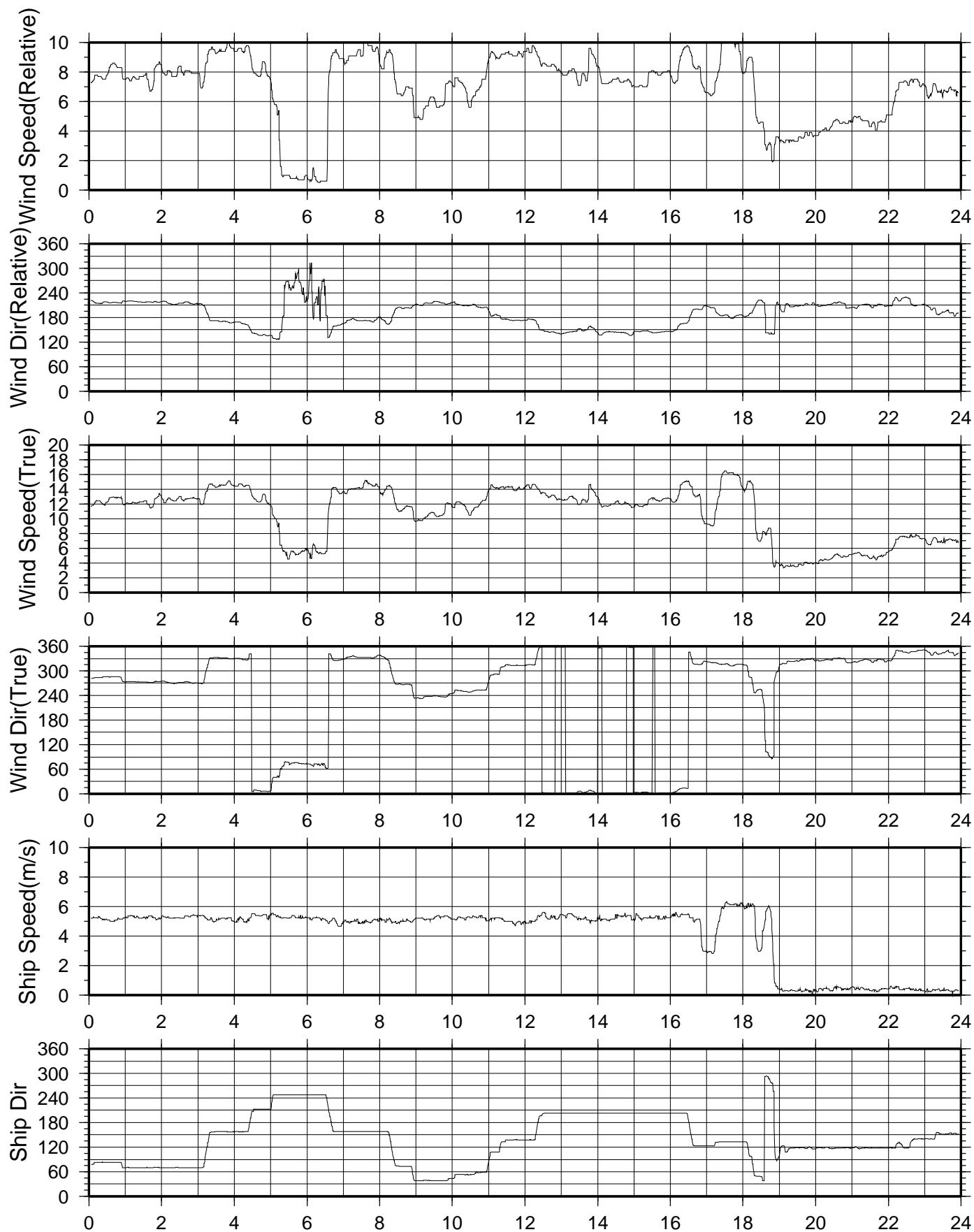
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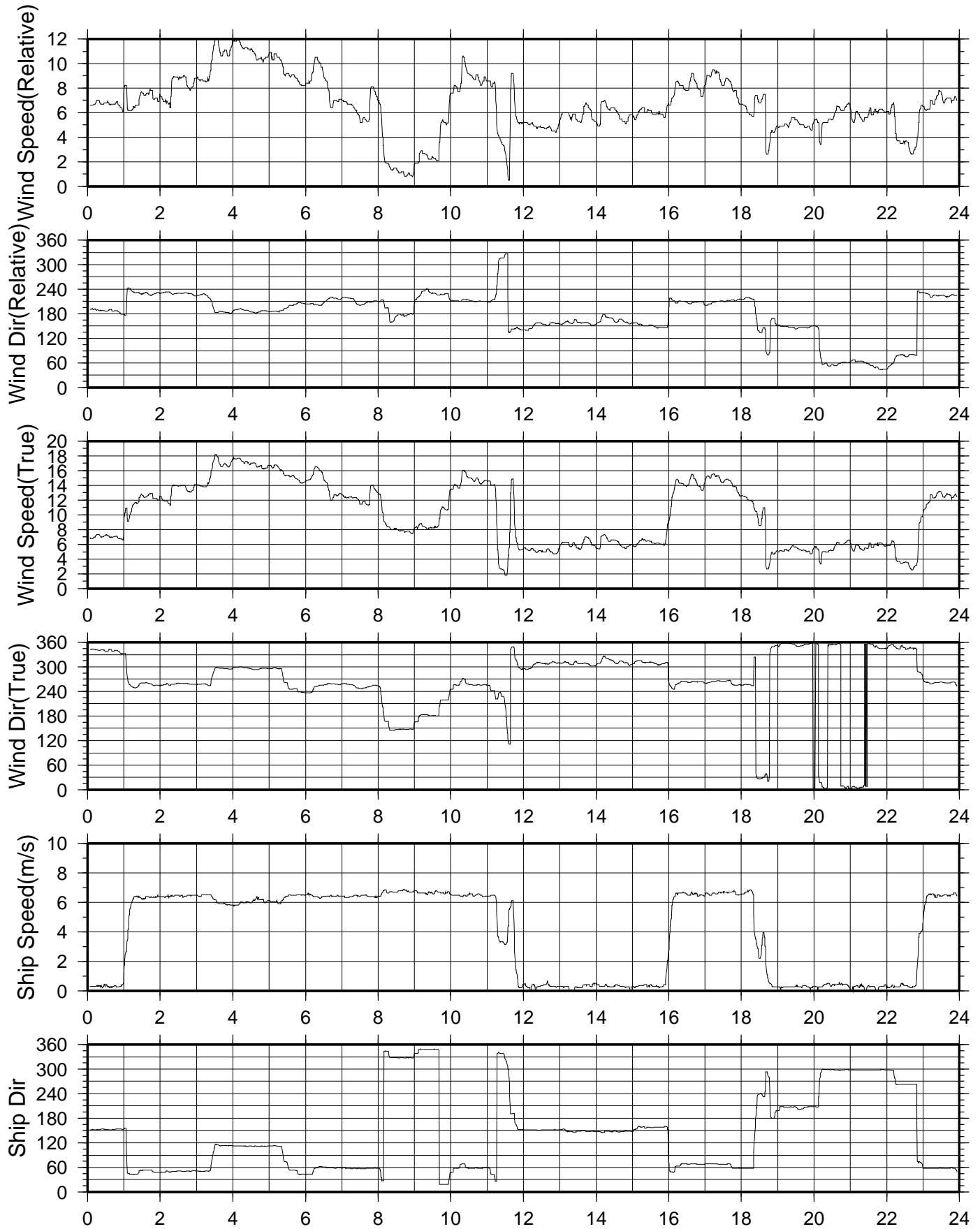
# Wind Data DANA02RR 2003oct26



# Wind Data DANA02RR 2003oct27

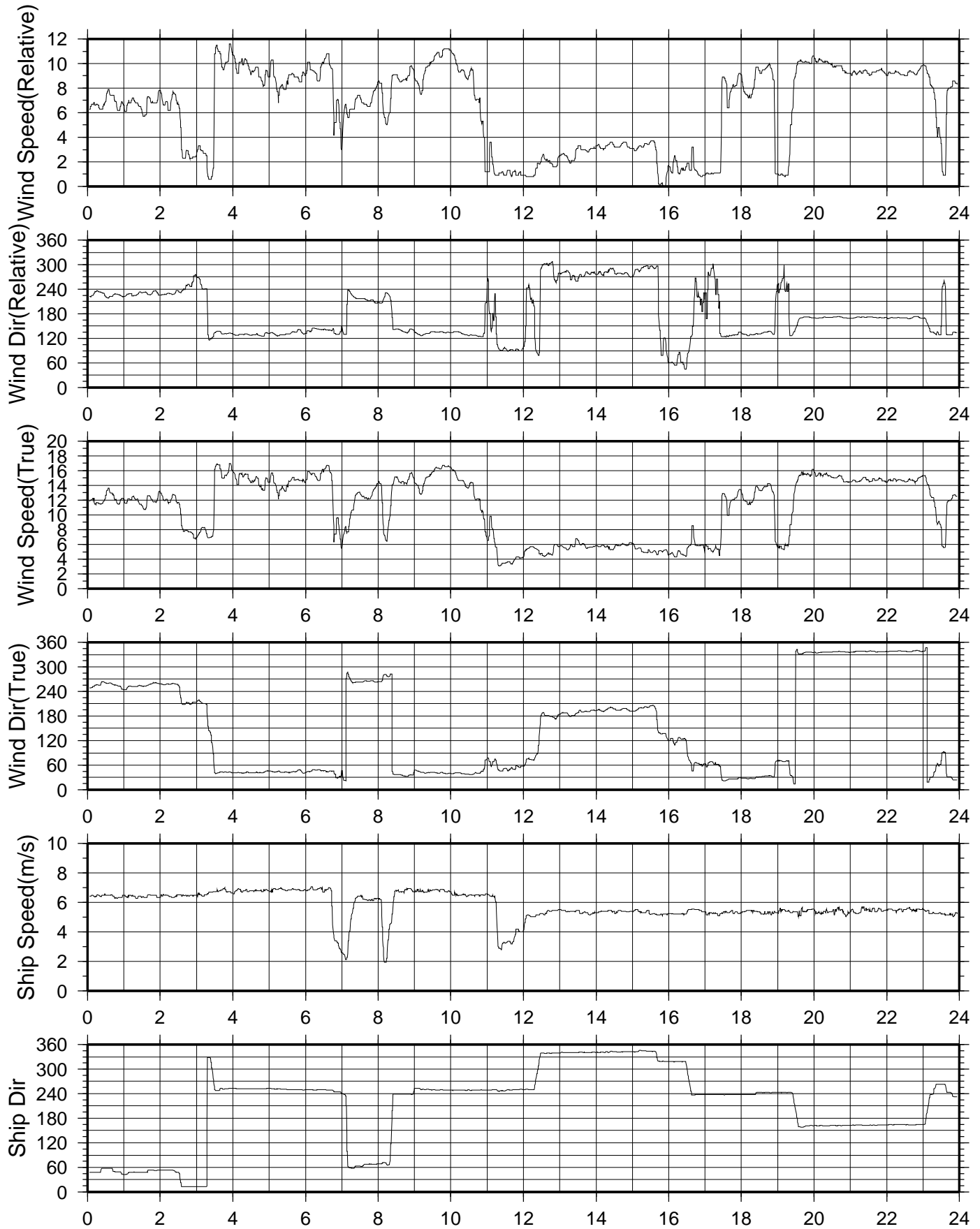


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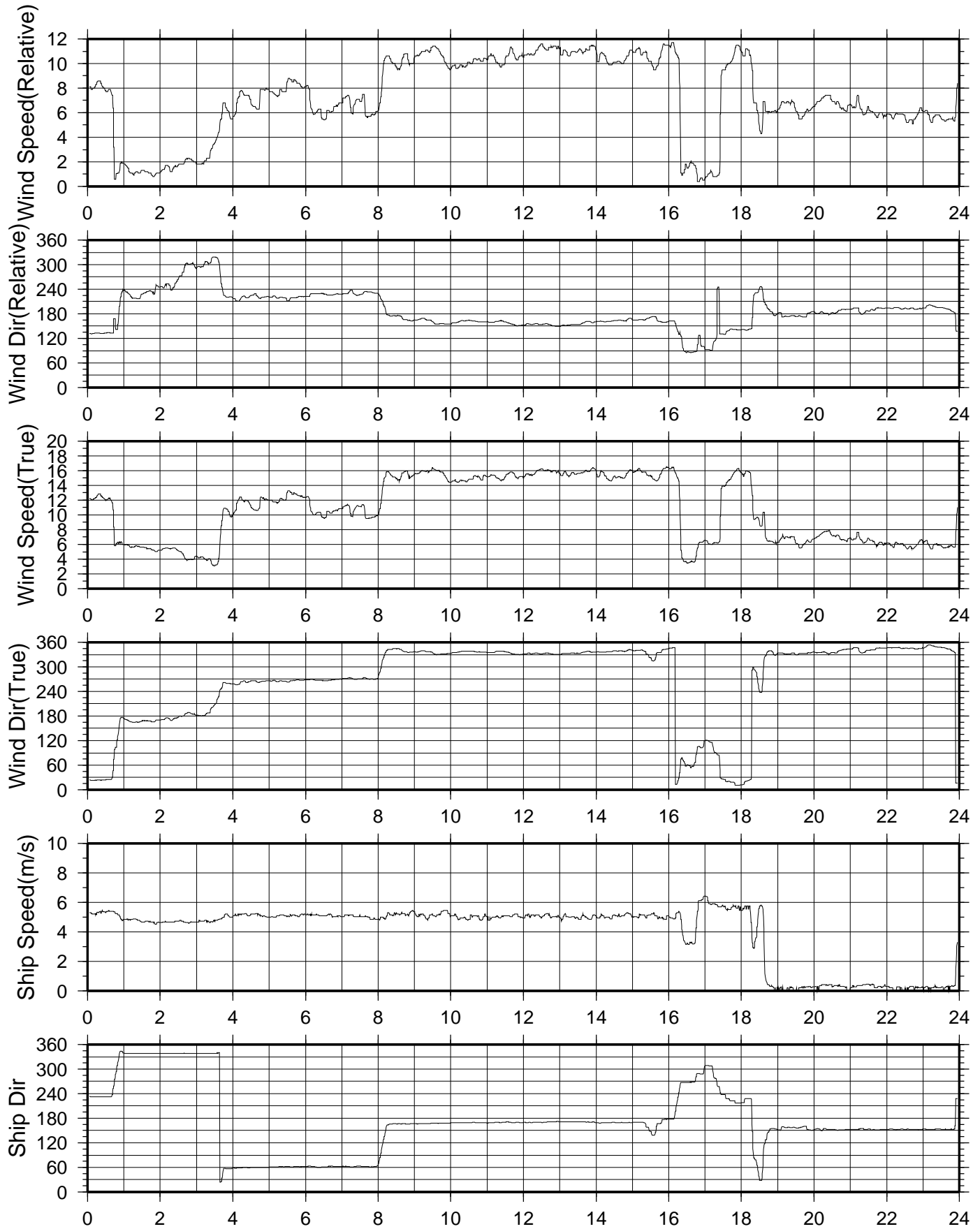




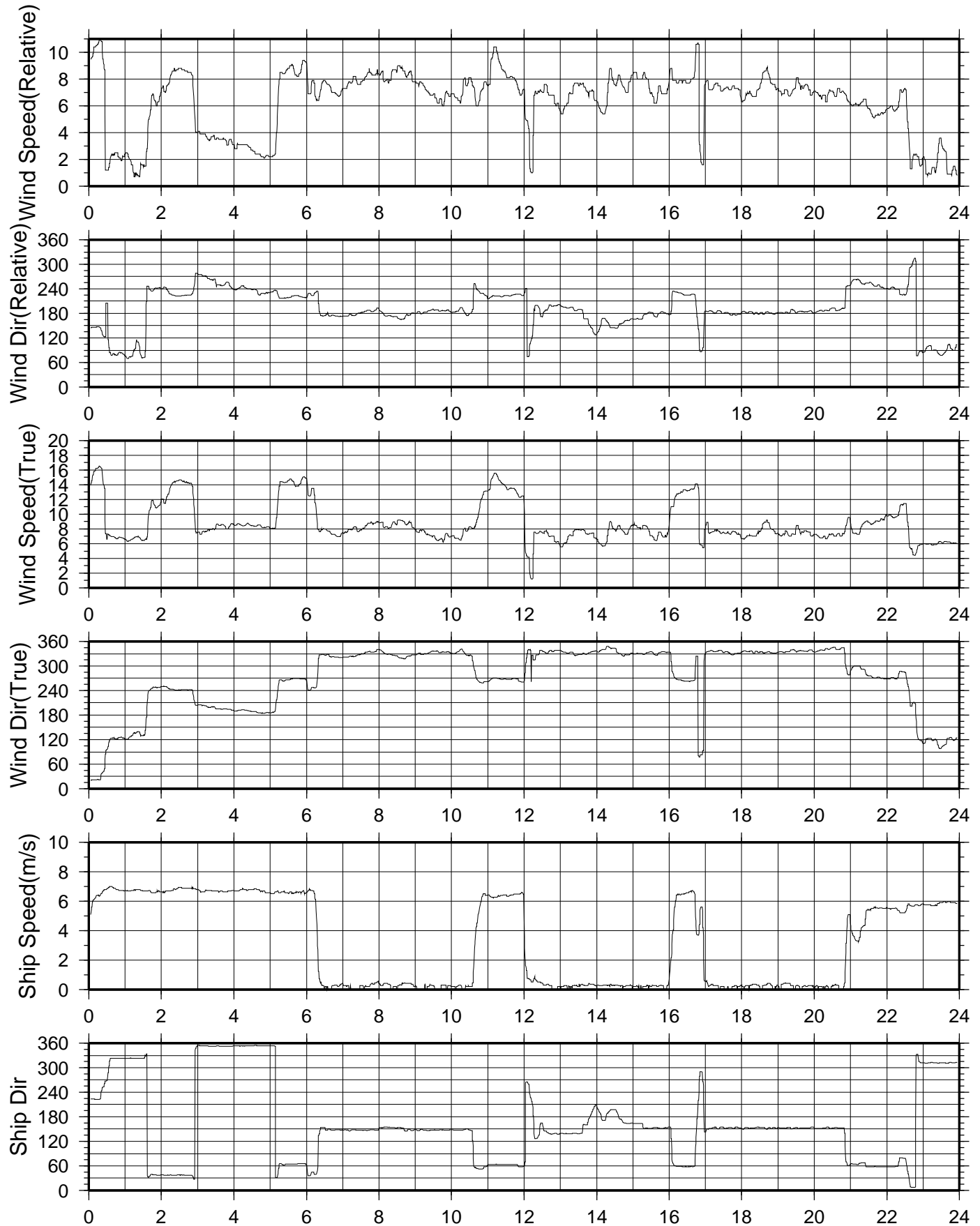
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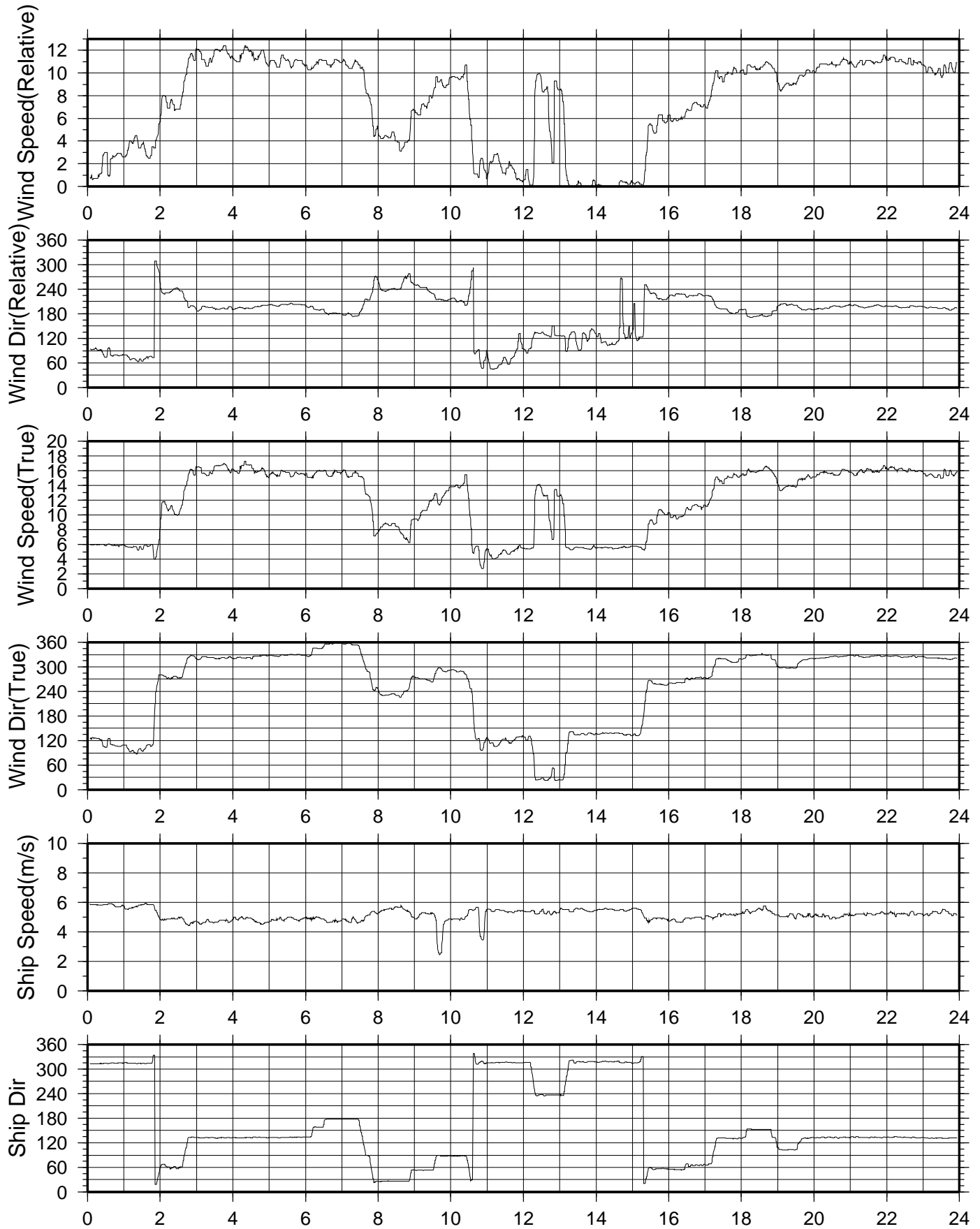
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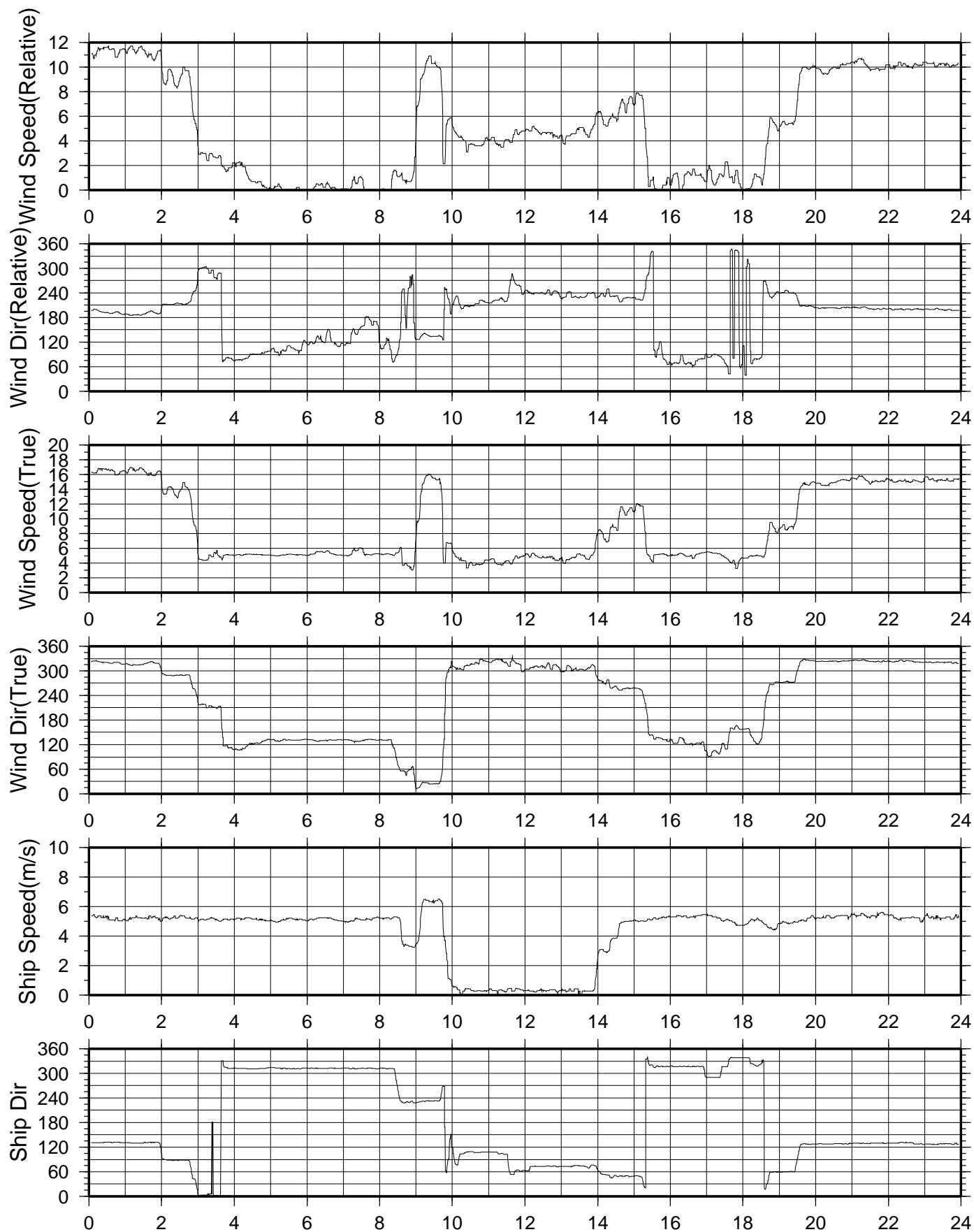
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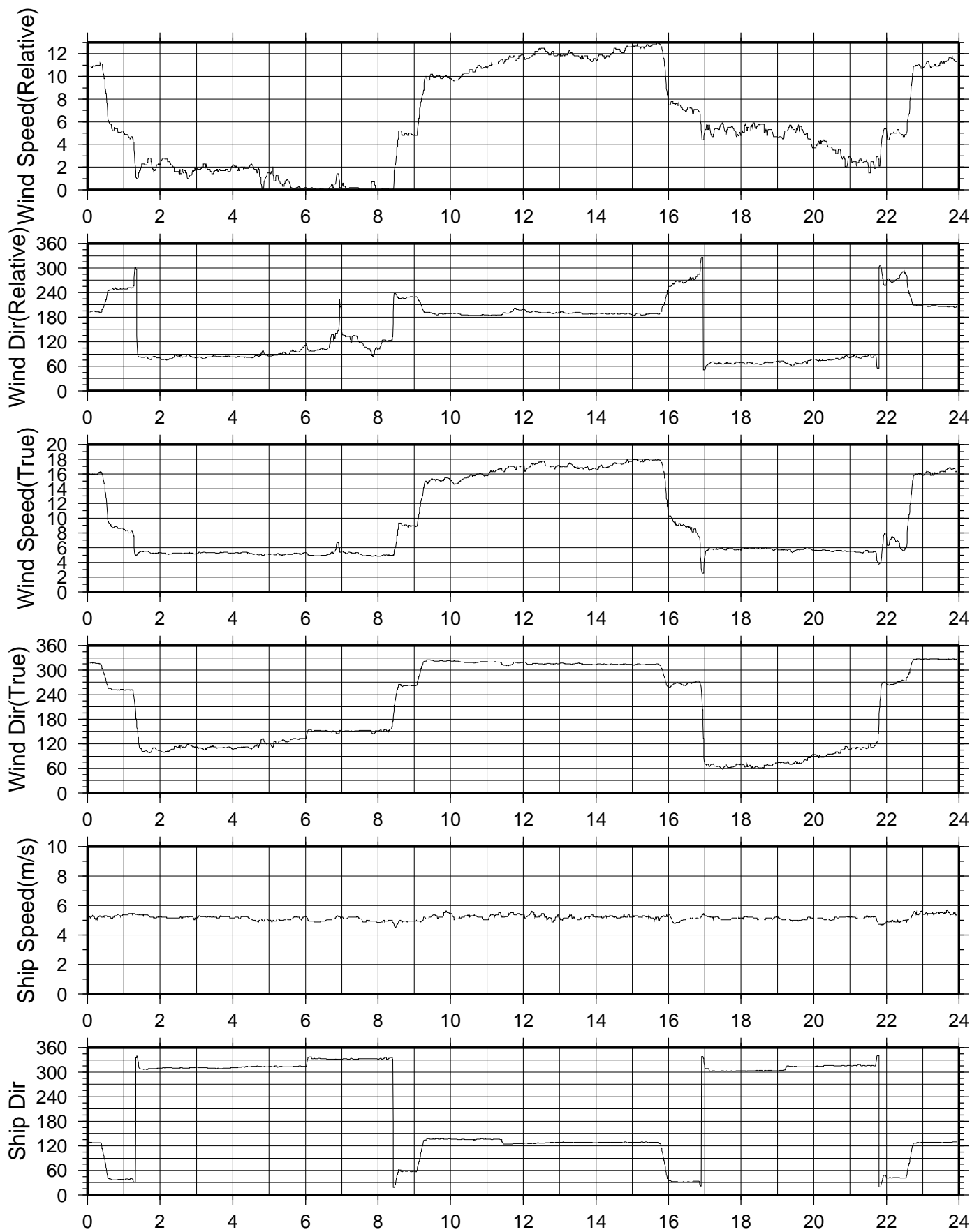
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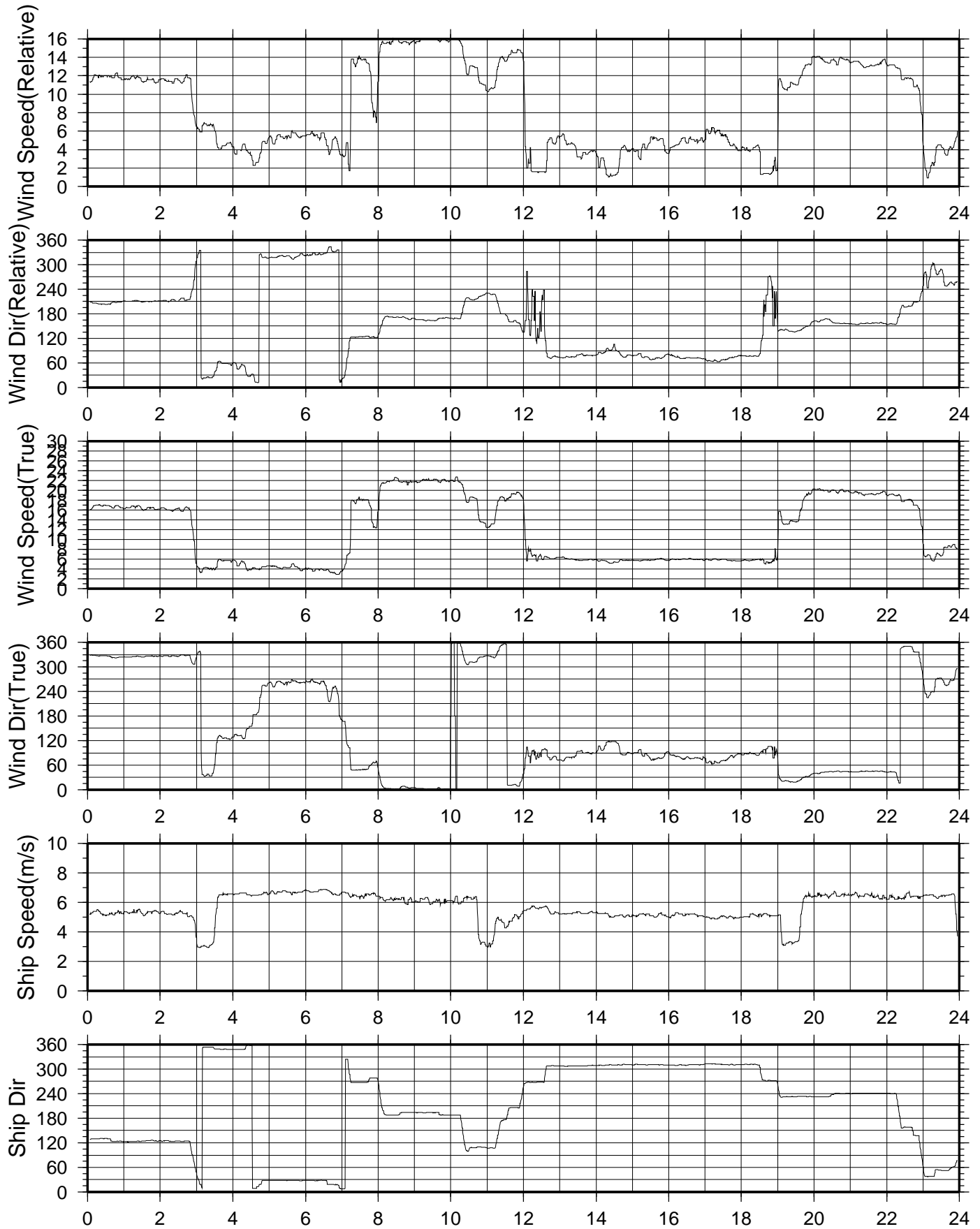
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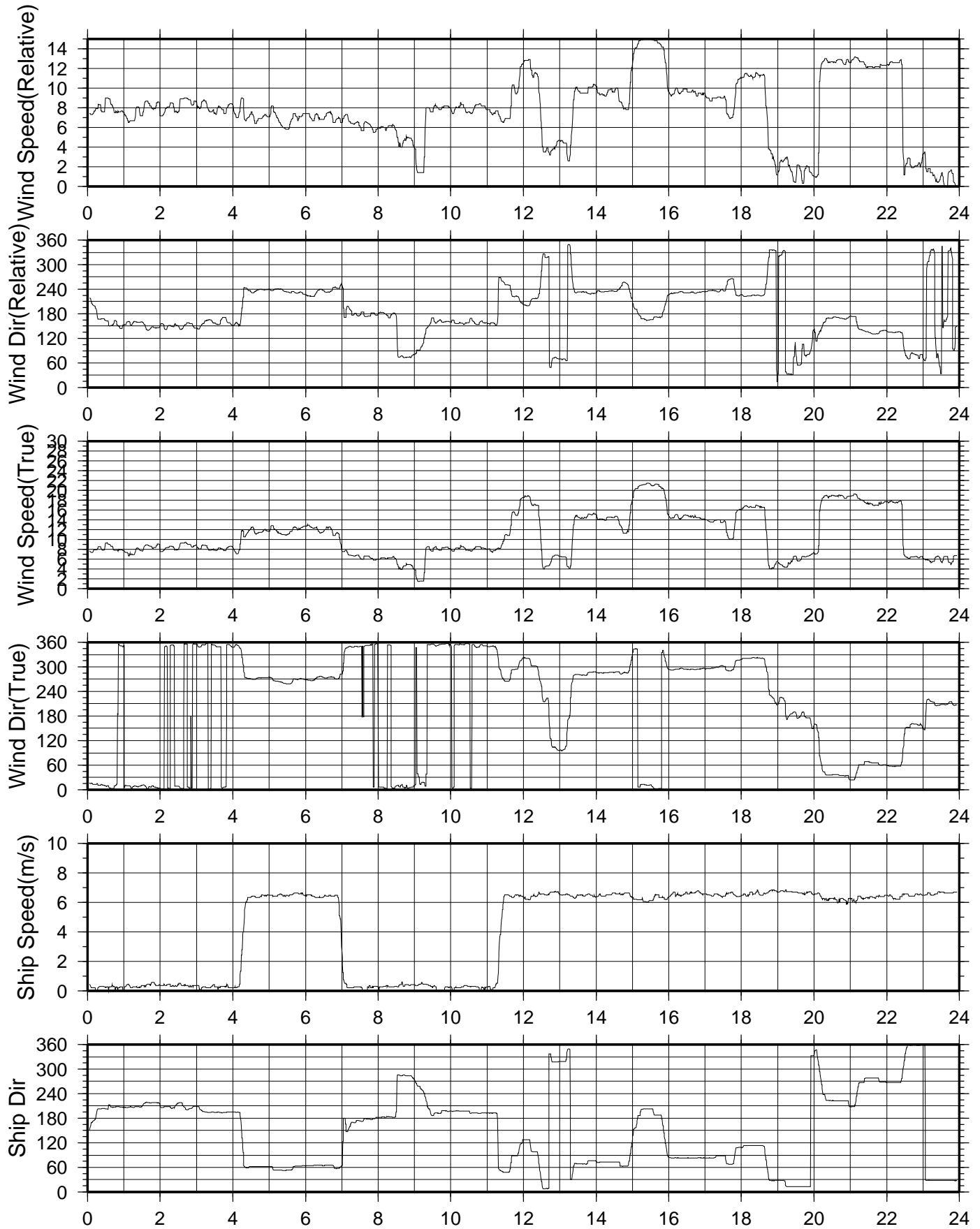
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# Wind Data DANA02RR 2003nov04

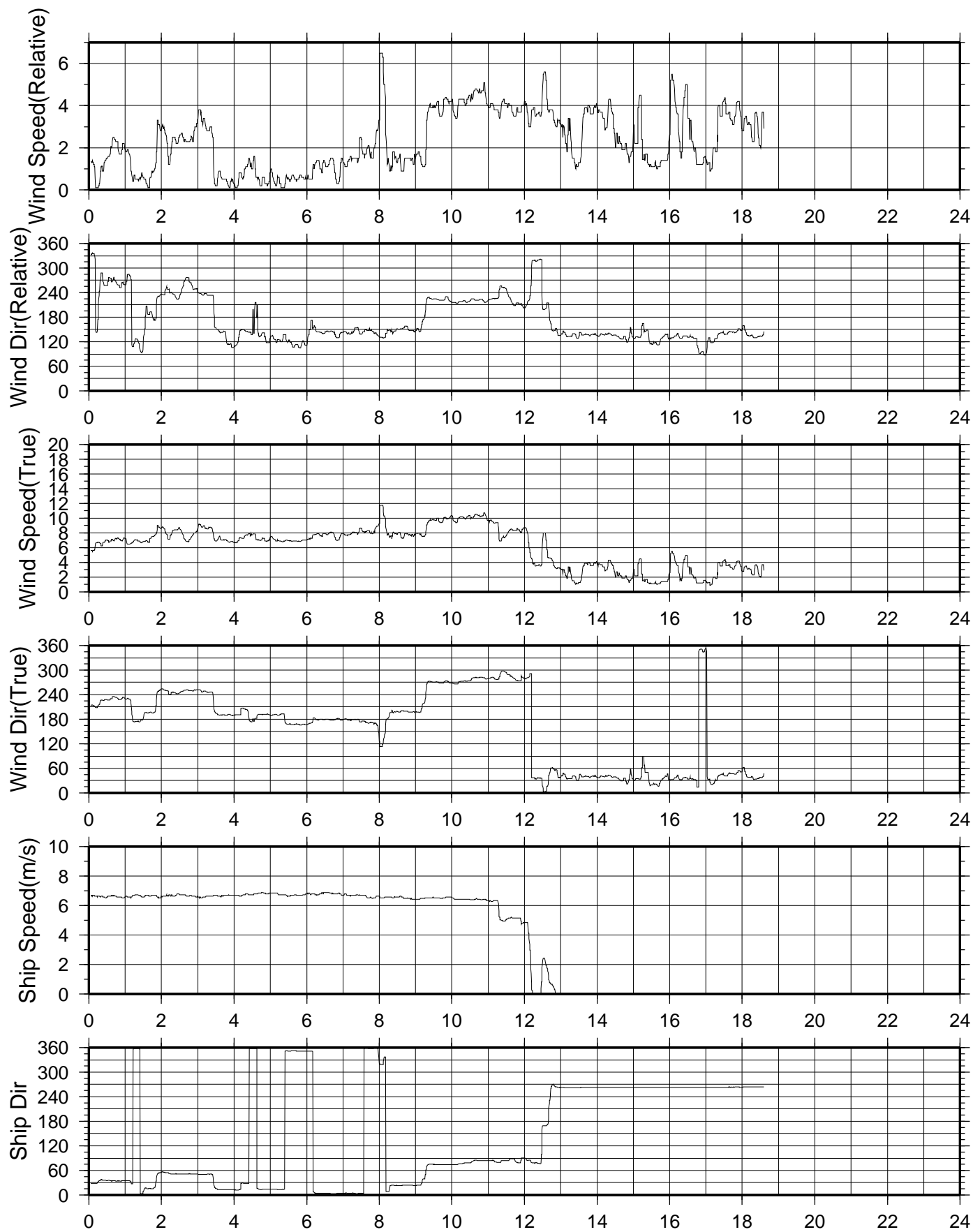


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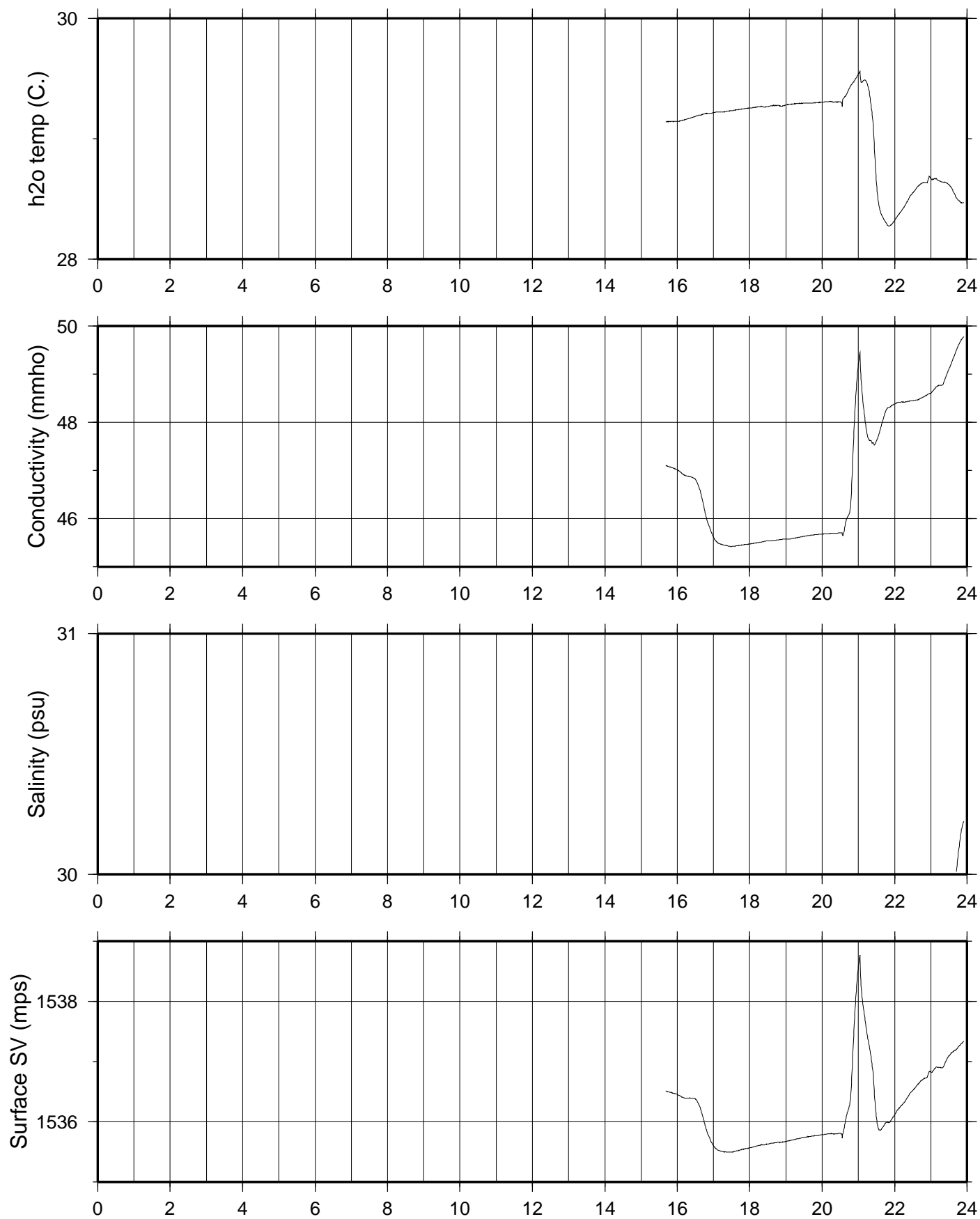




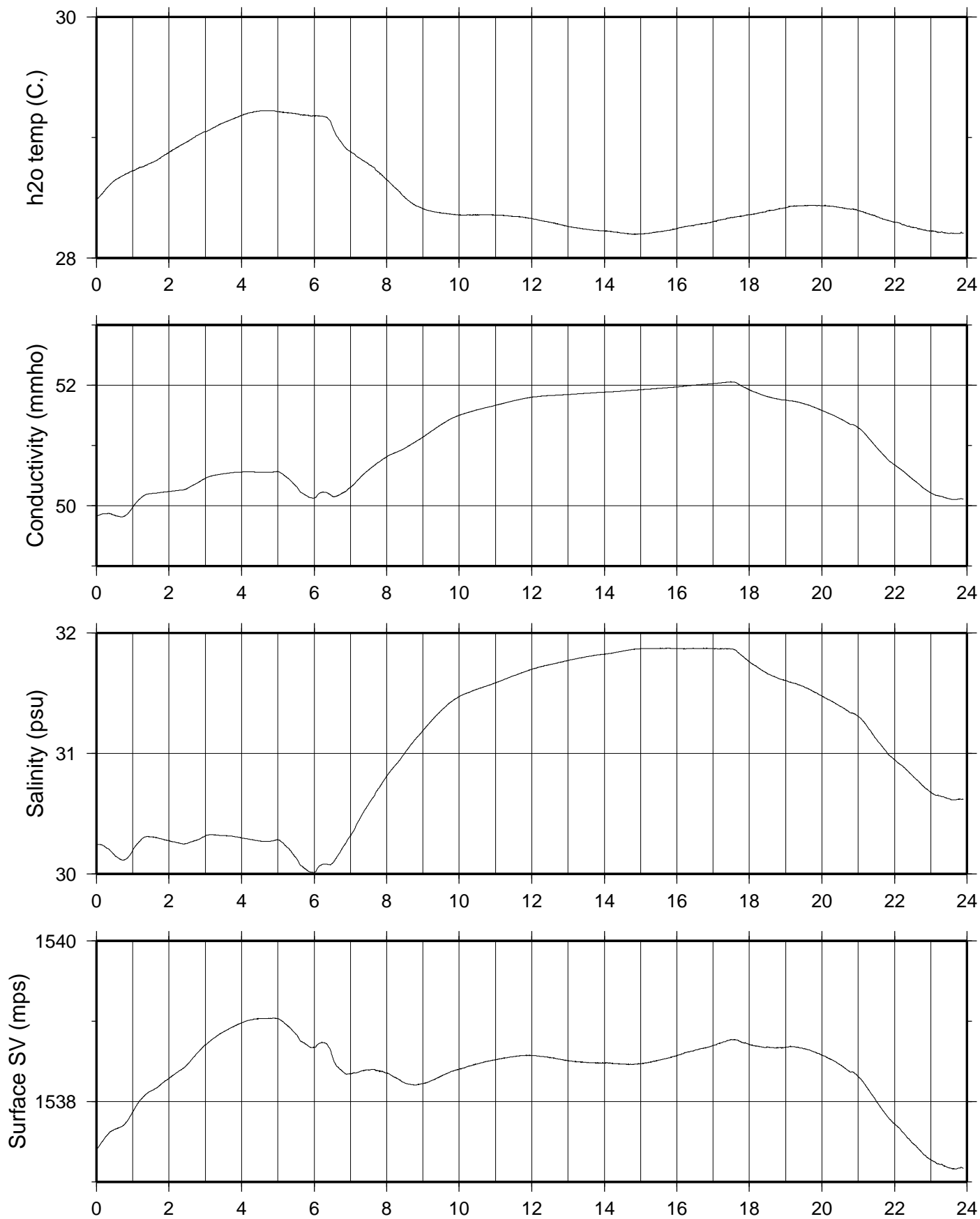
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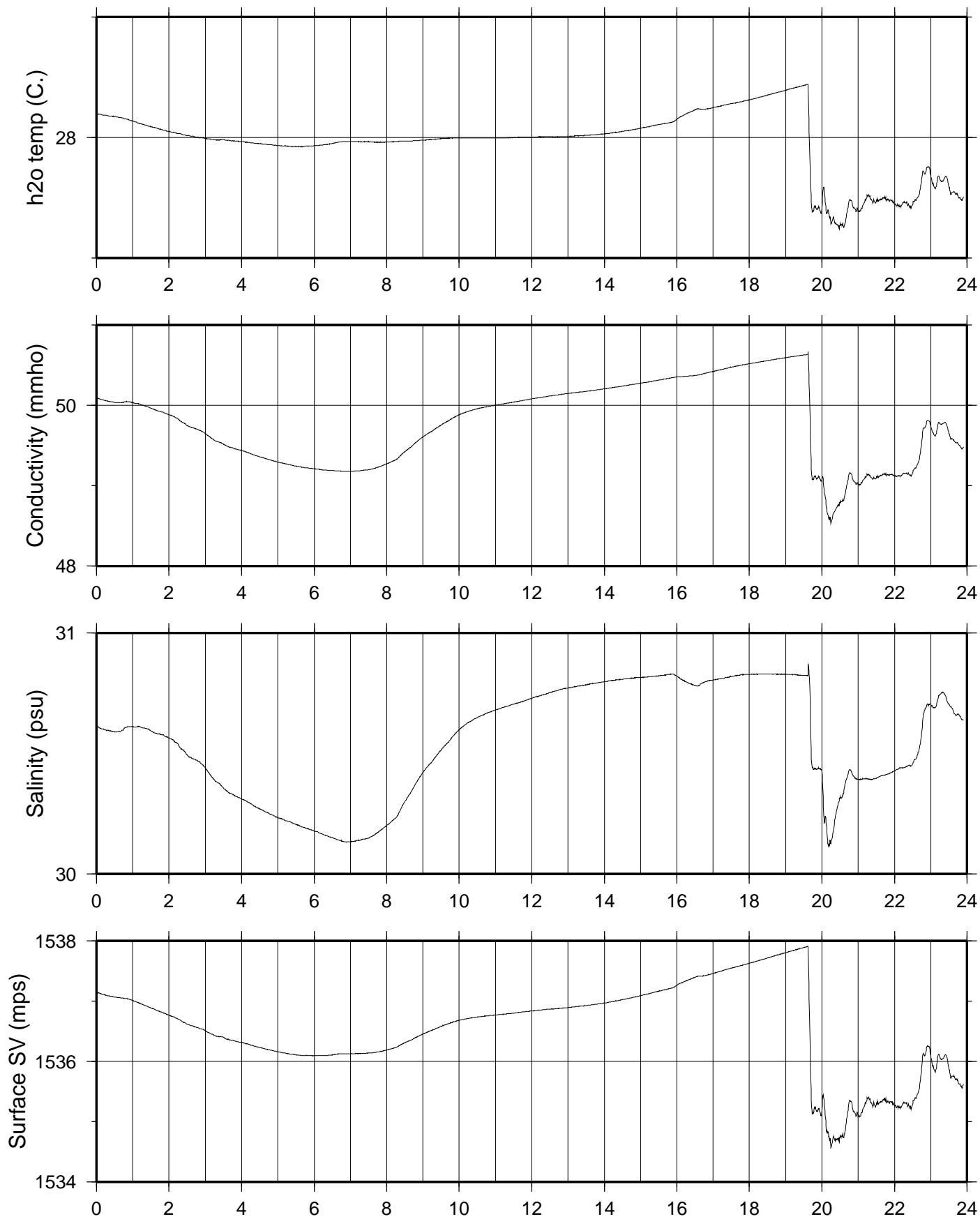
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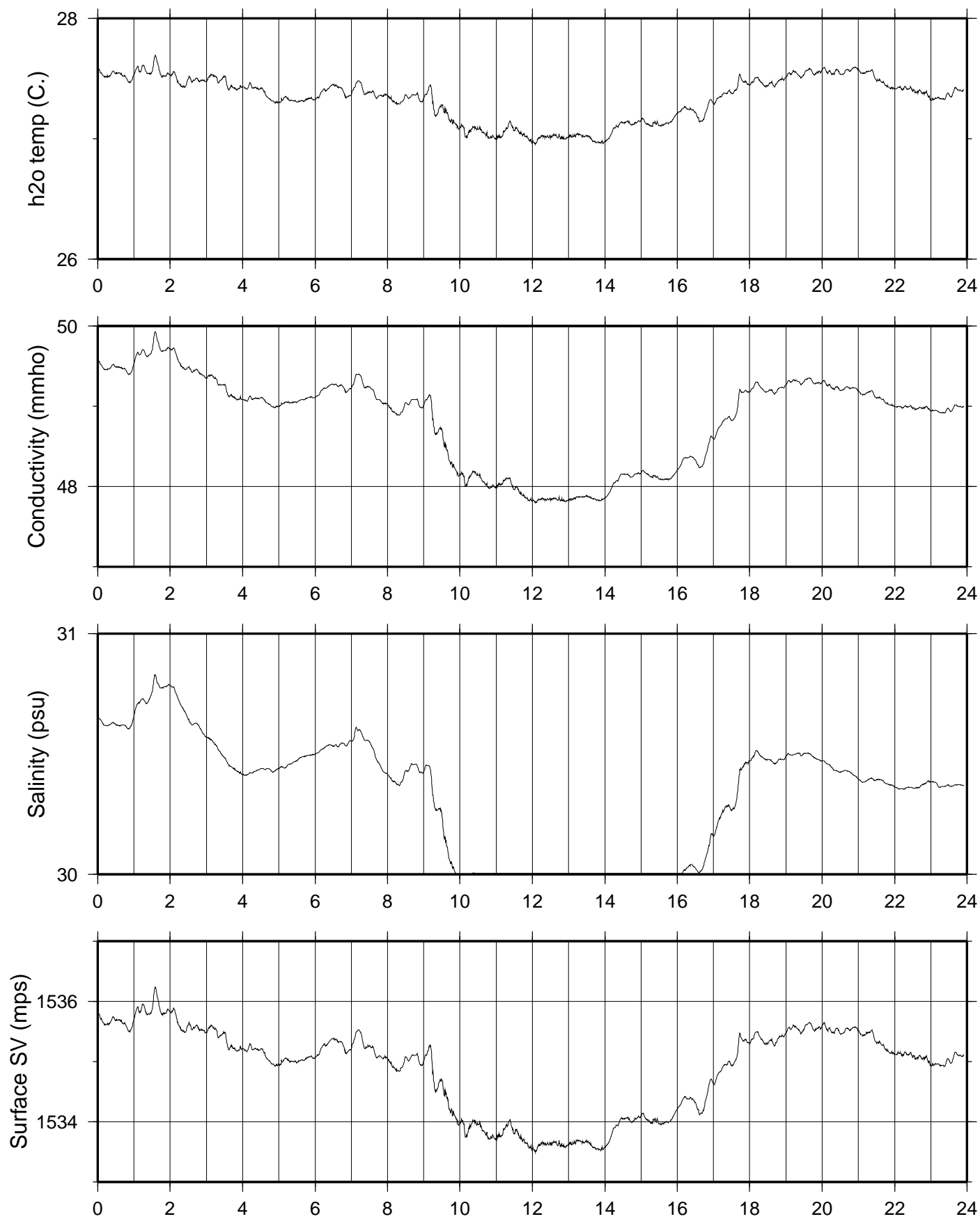
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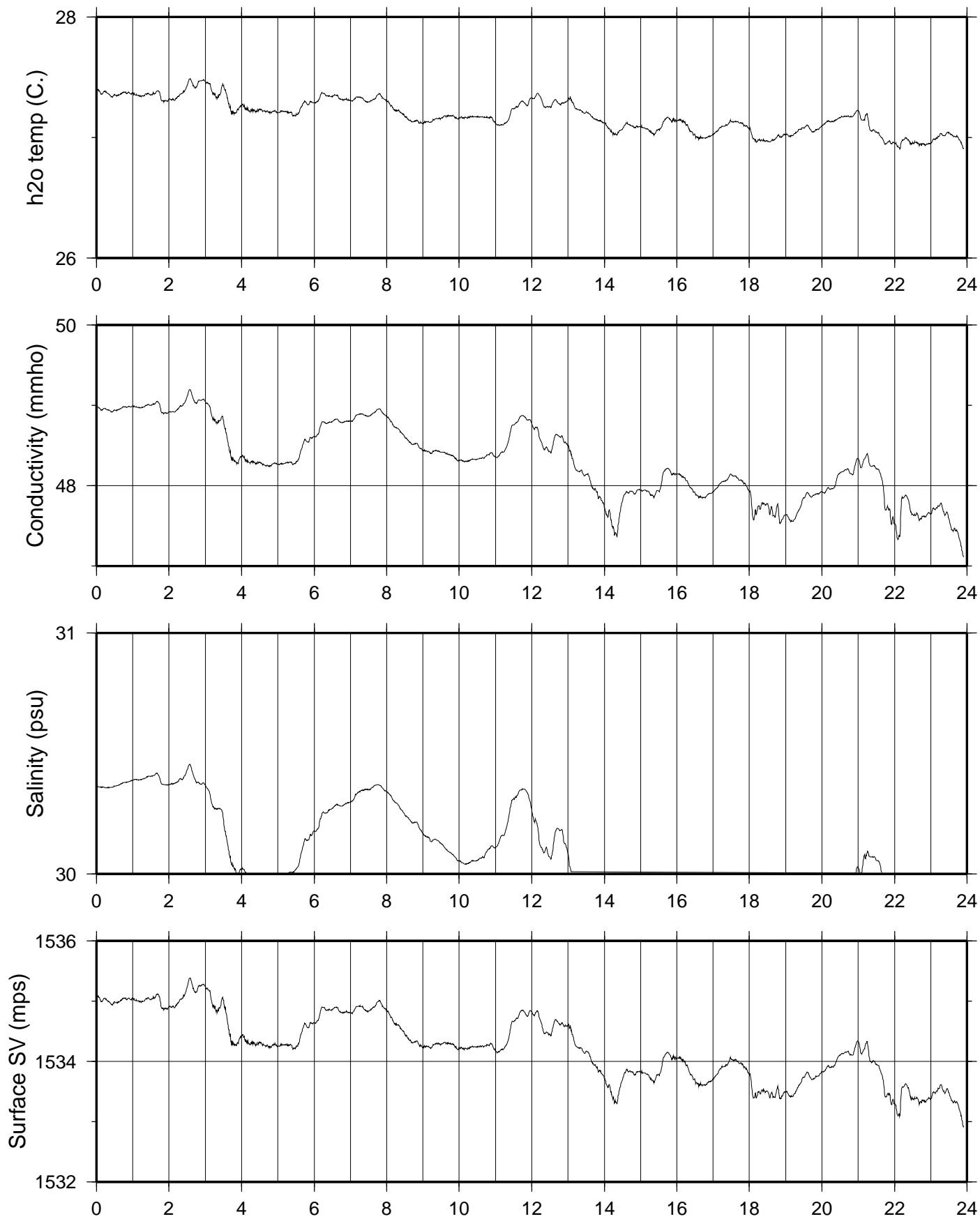
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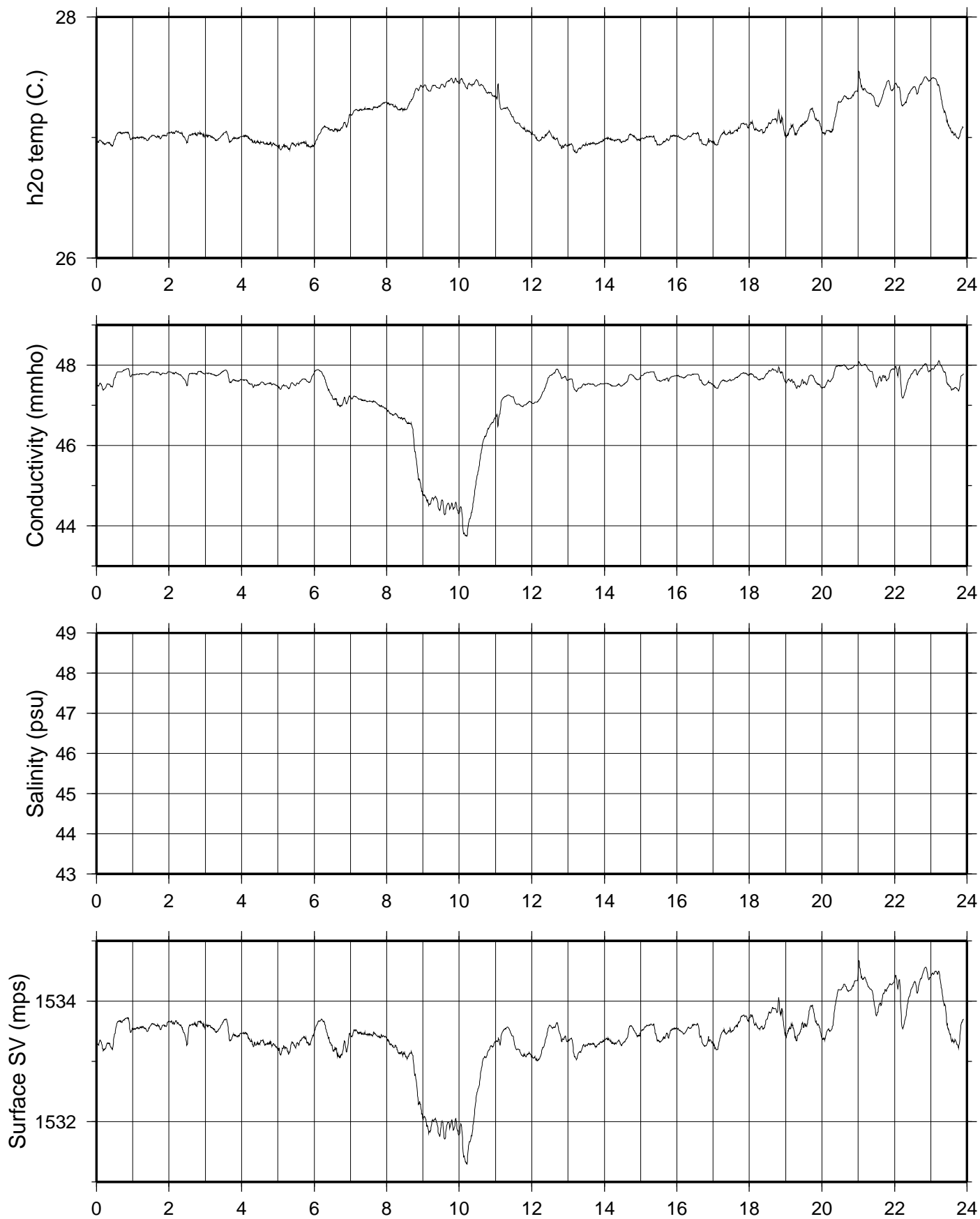
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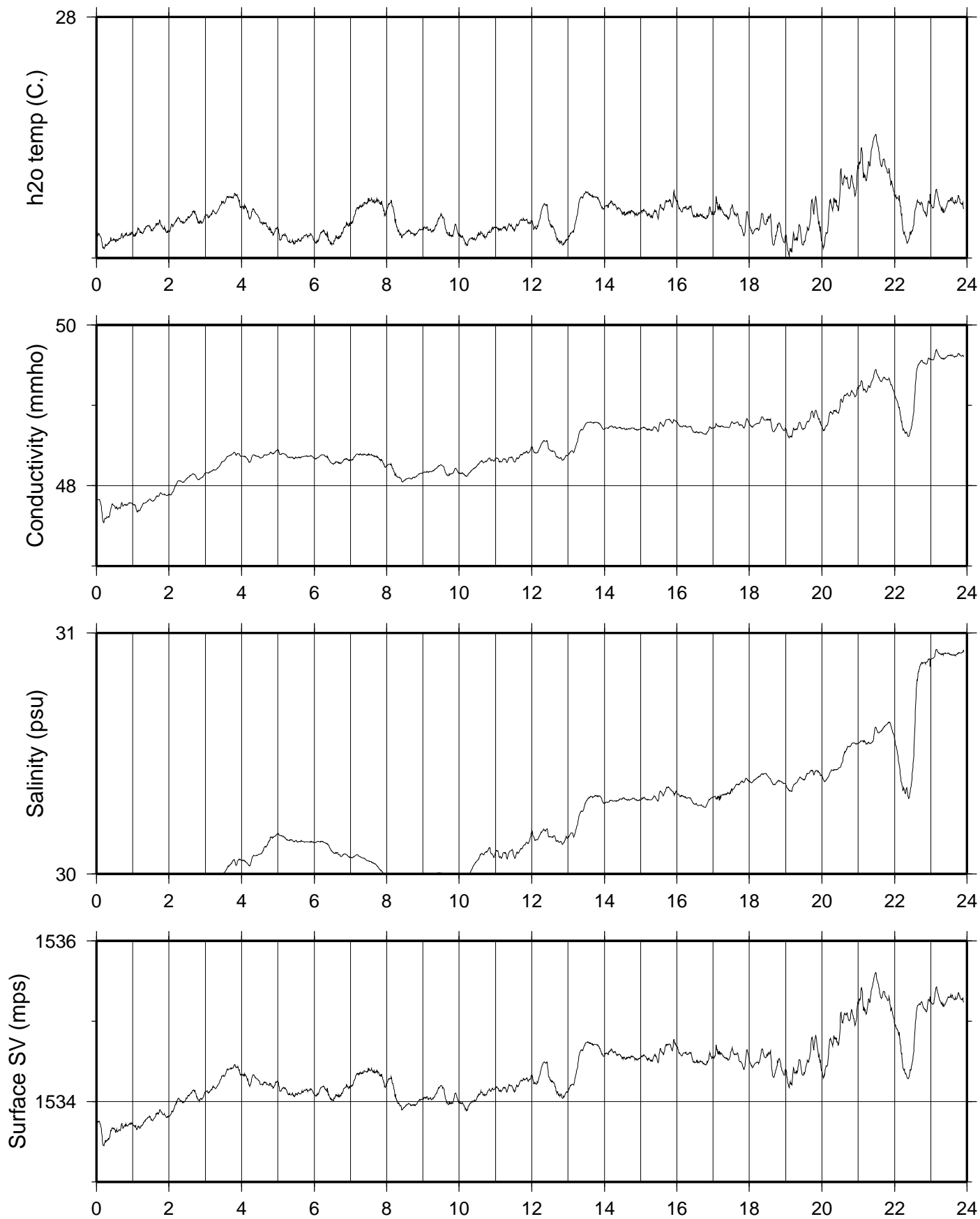
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# SSV data DANA02RR 2003oct15

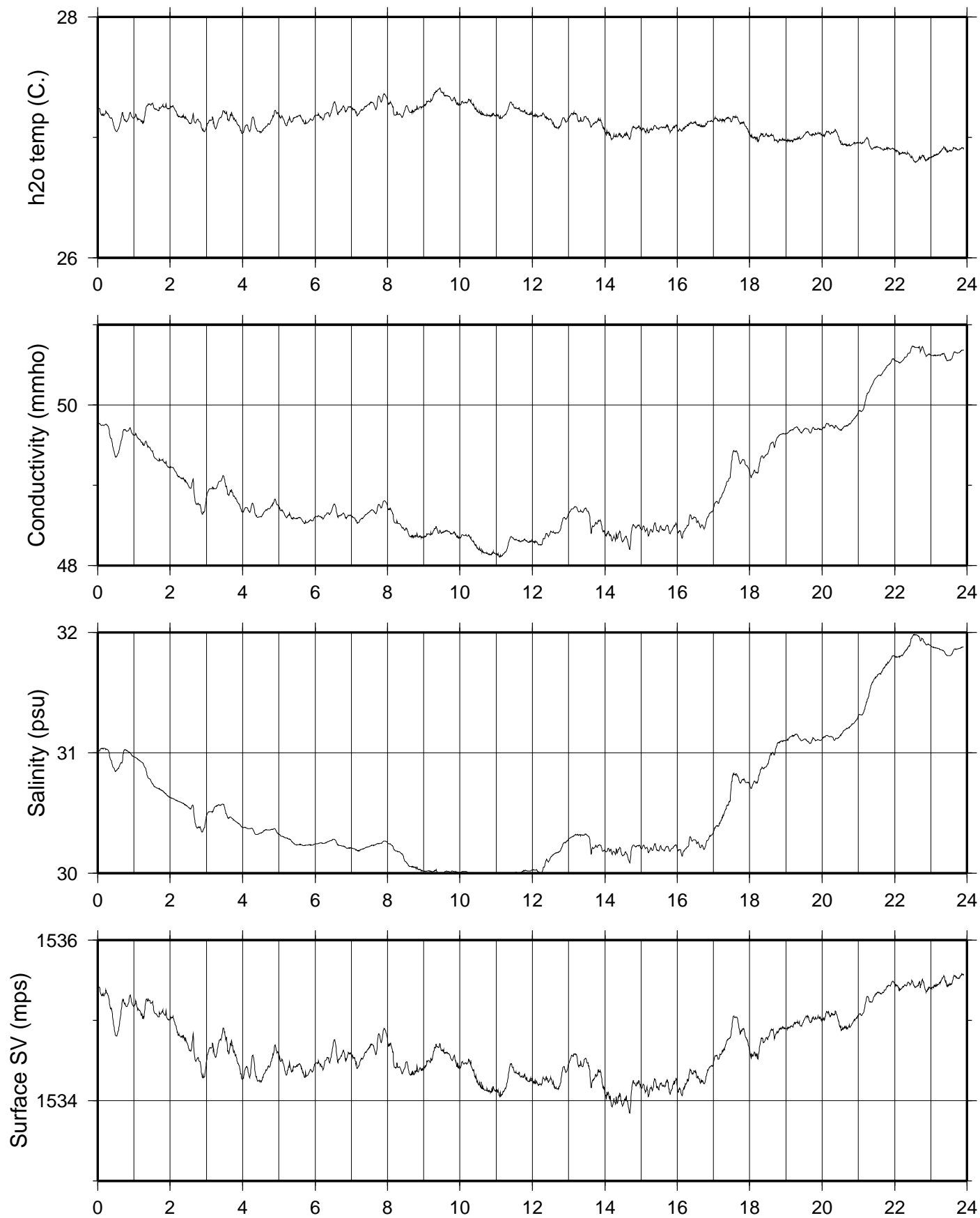


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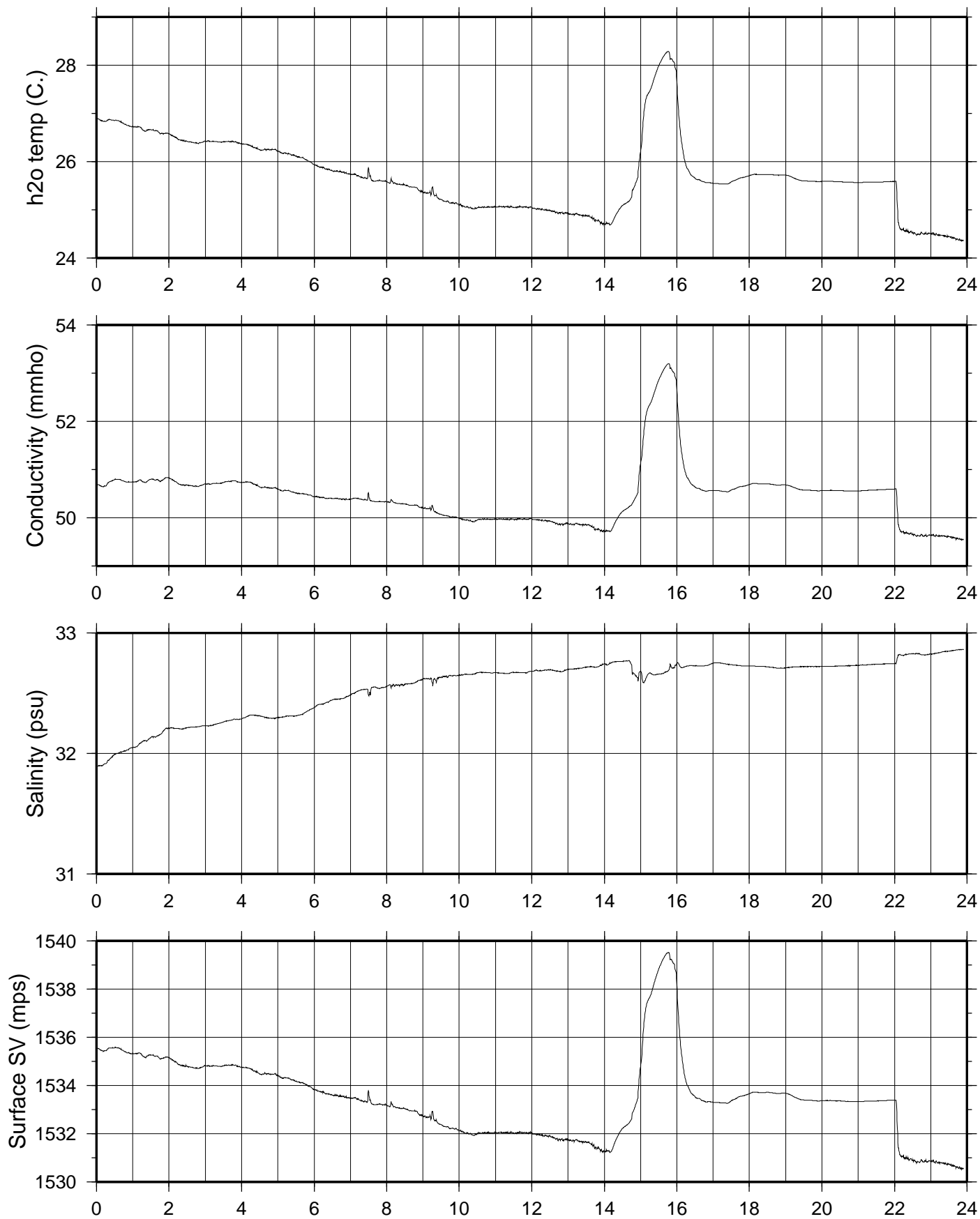




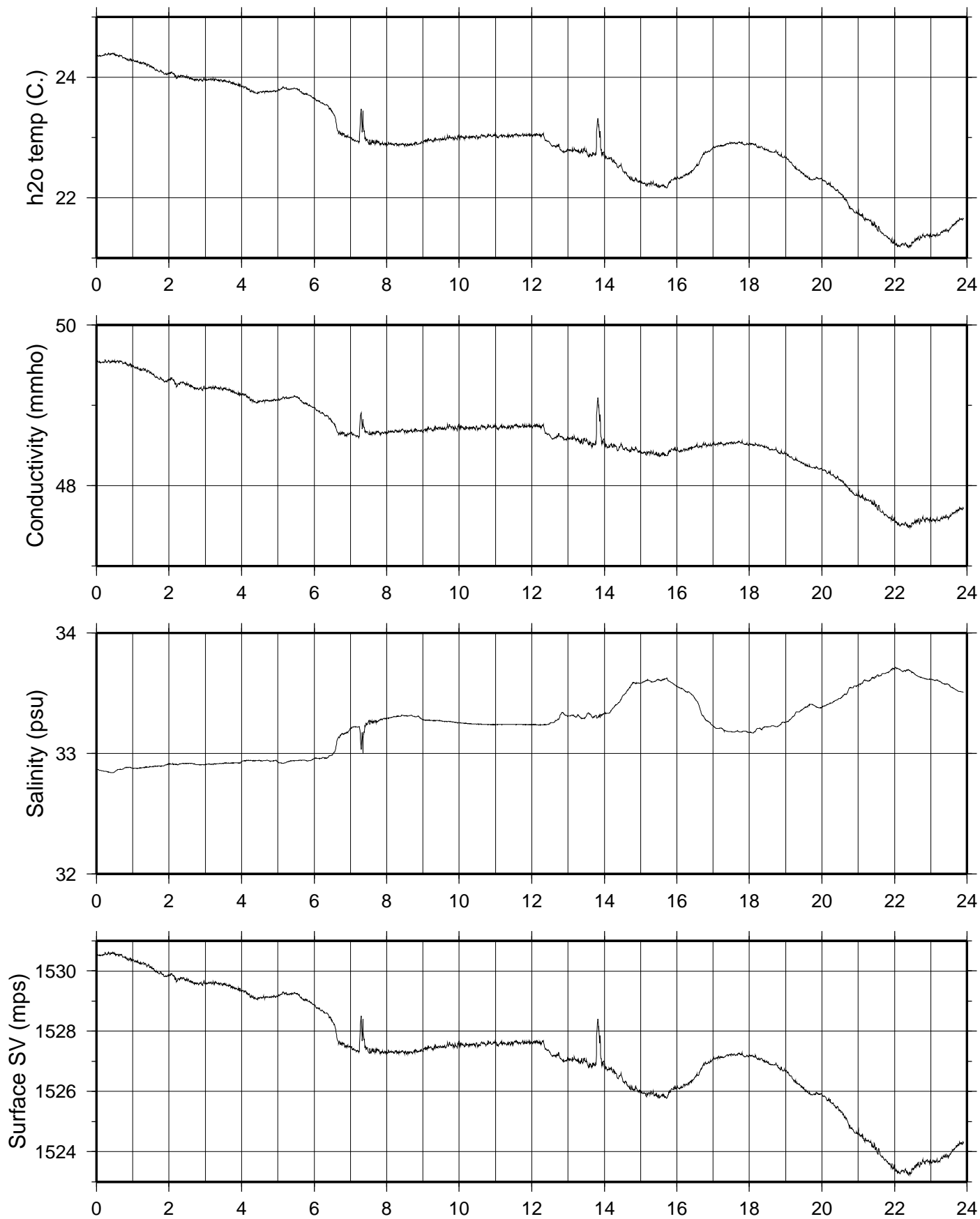
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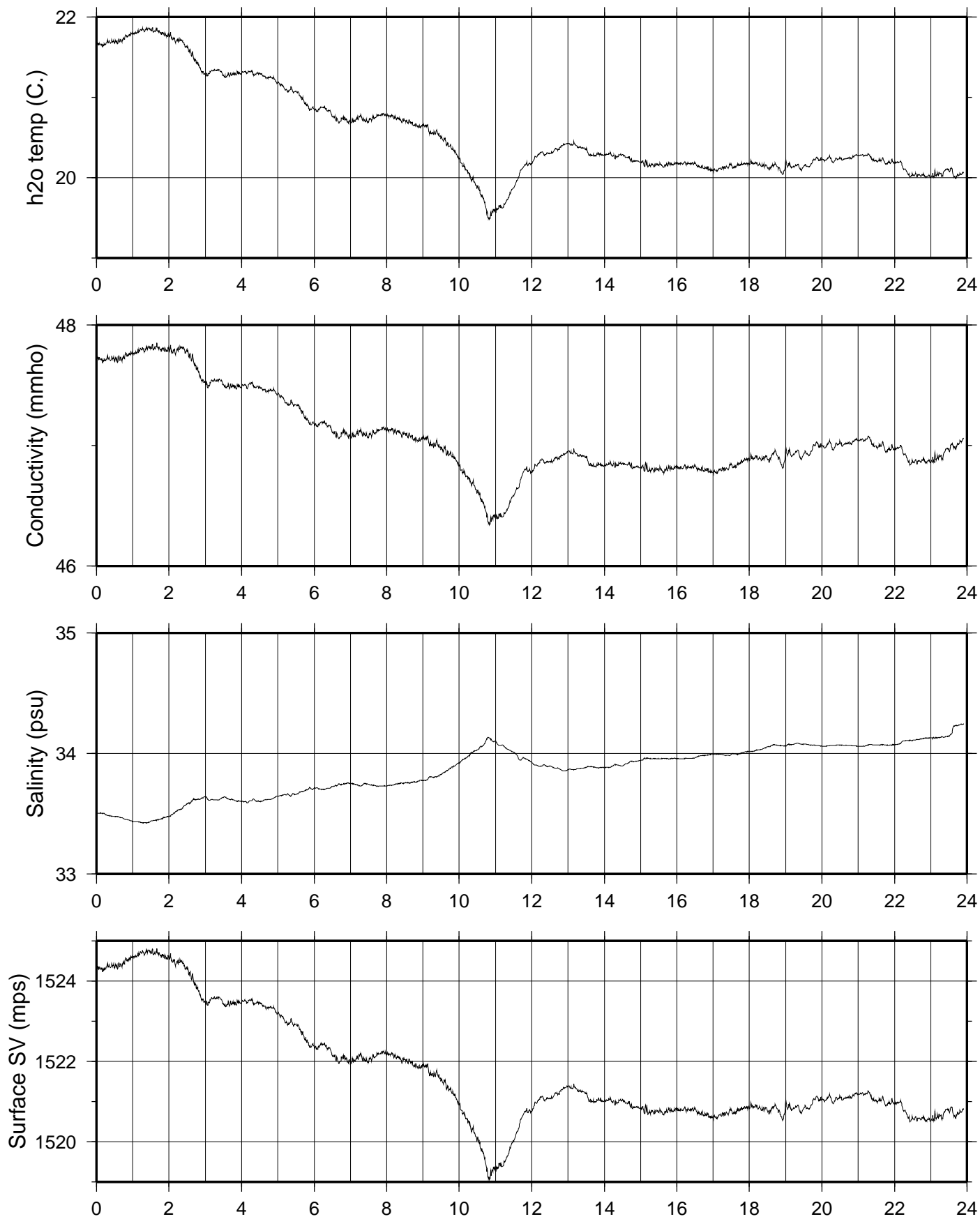
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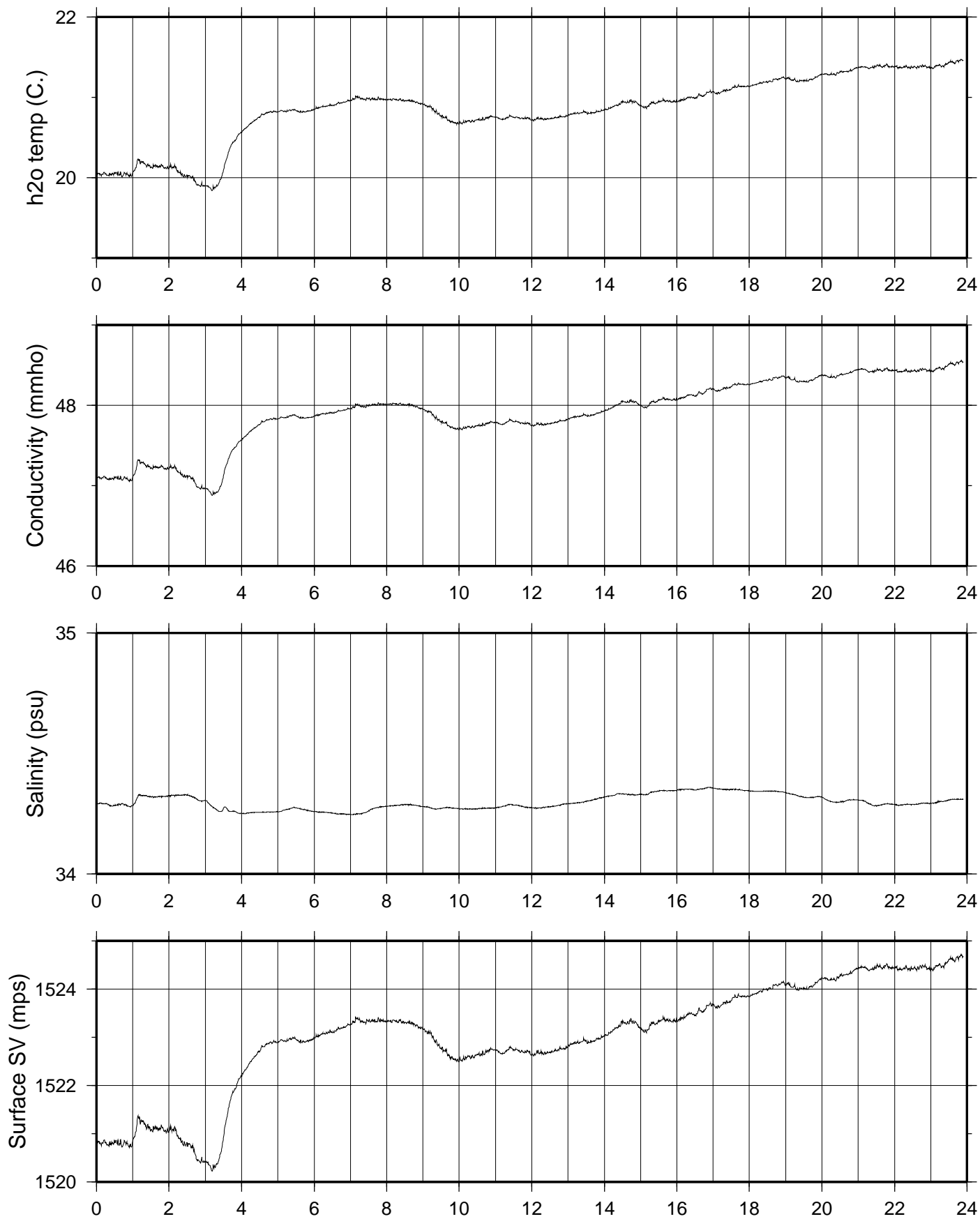
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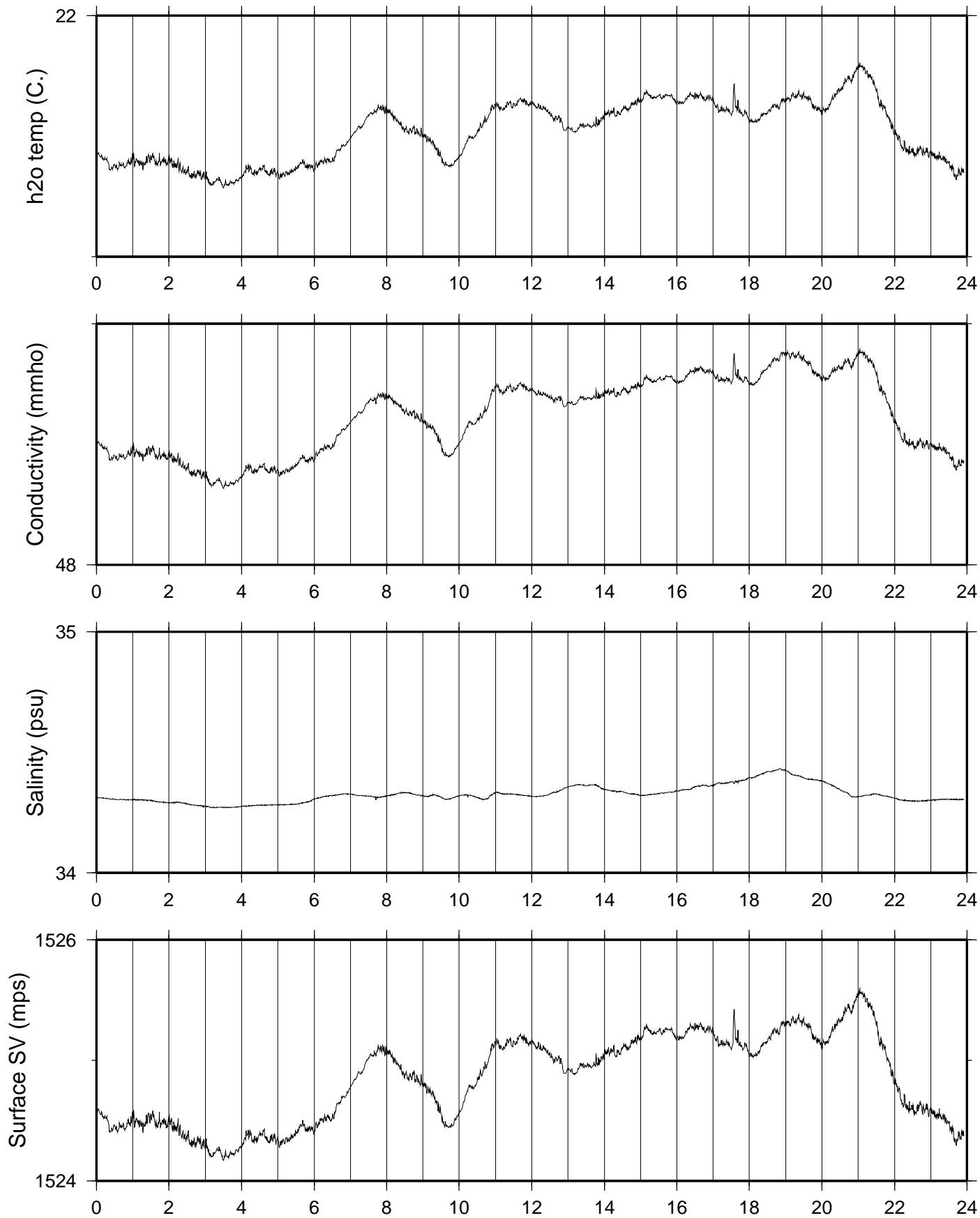
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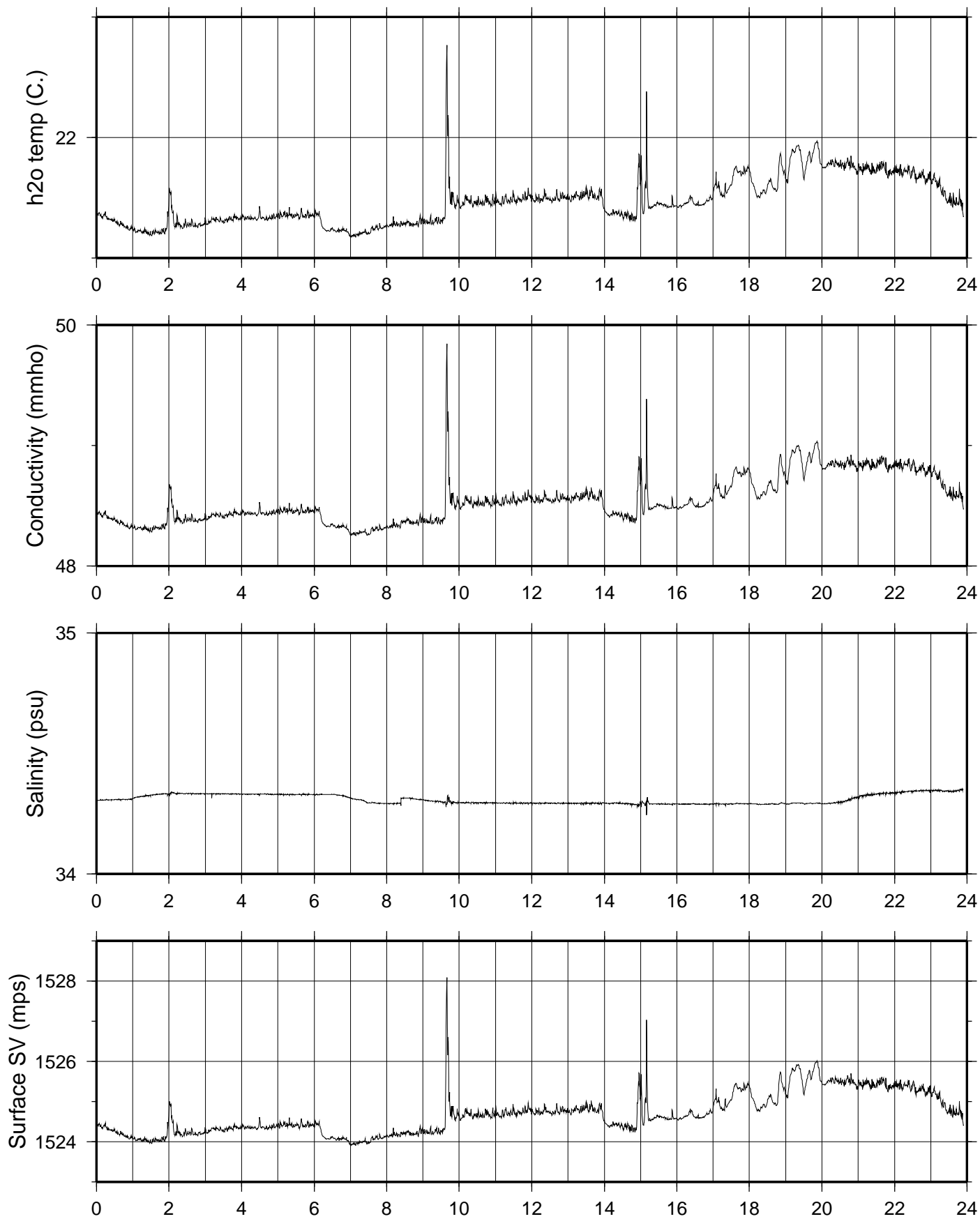
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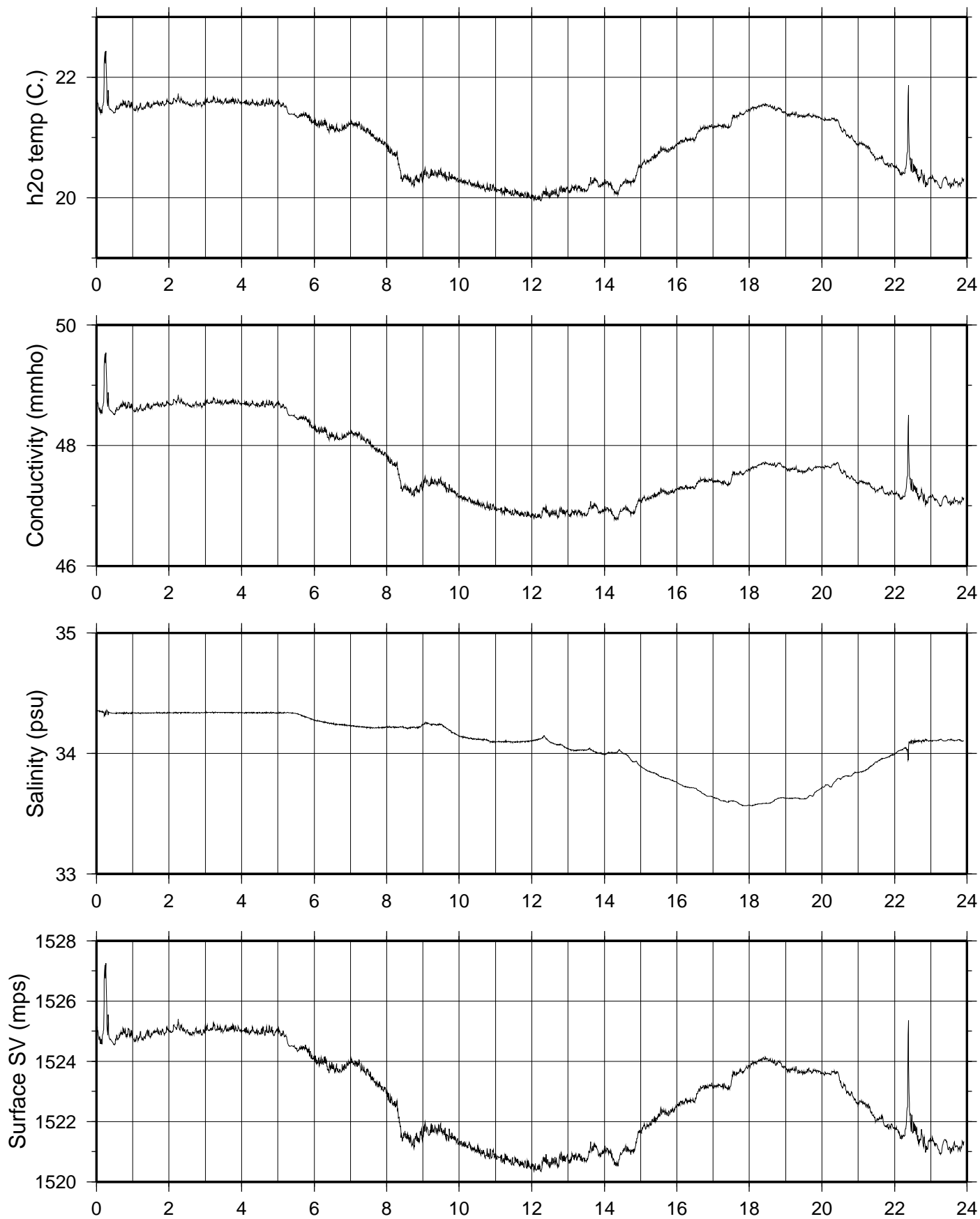
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# SSV data DANA02RR 2003oct23

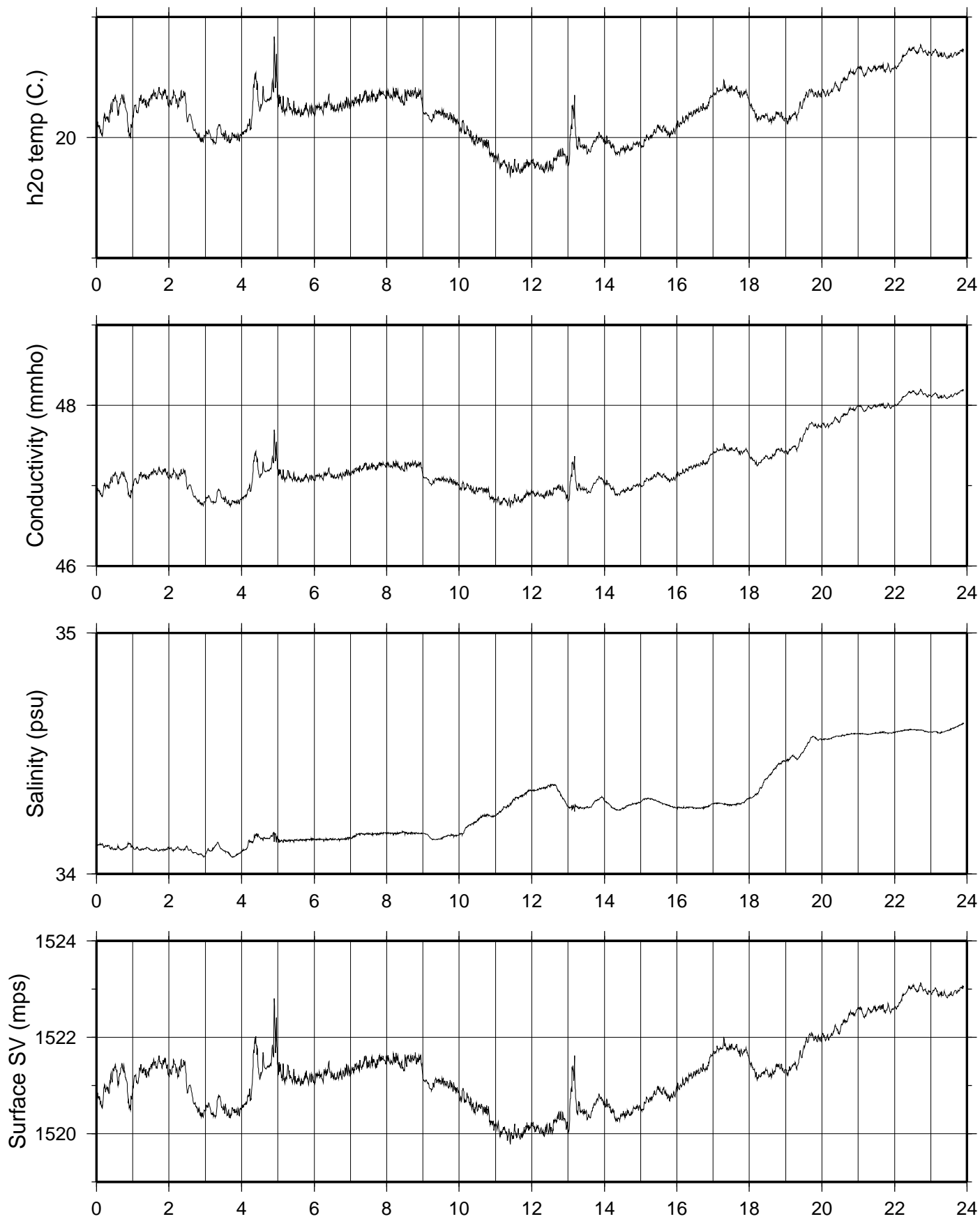


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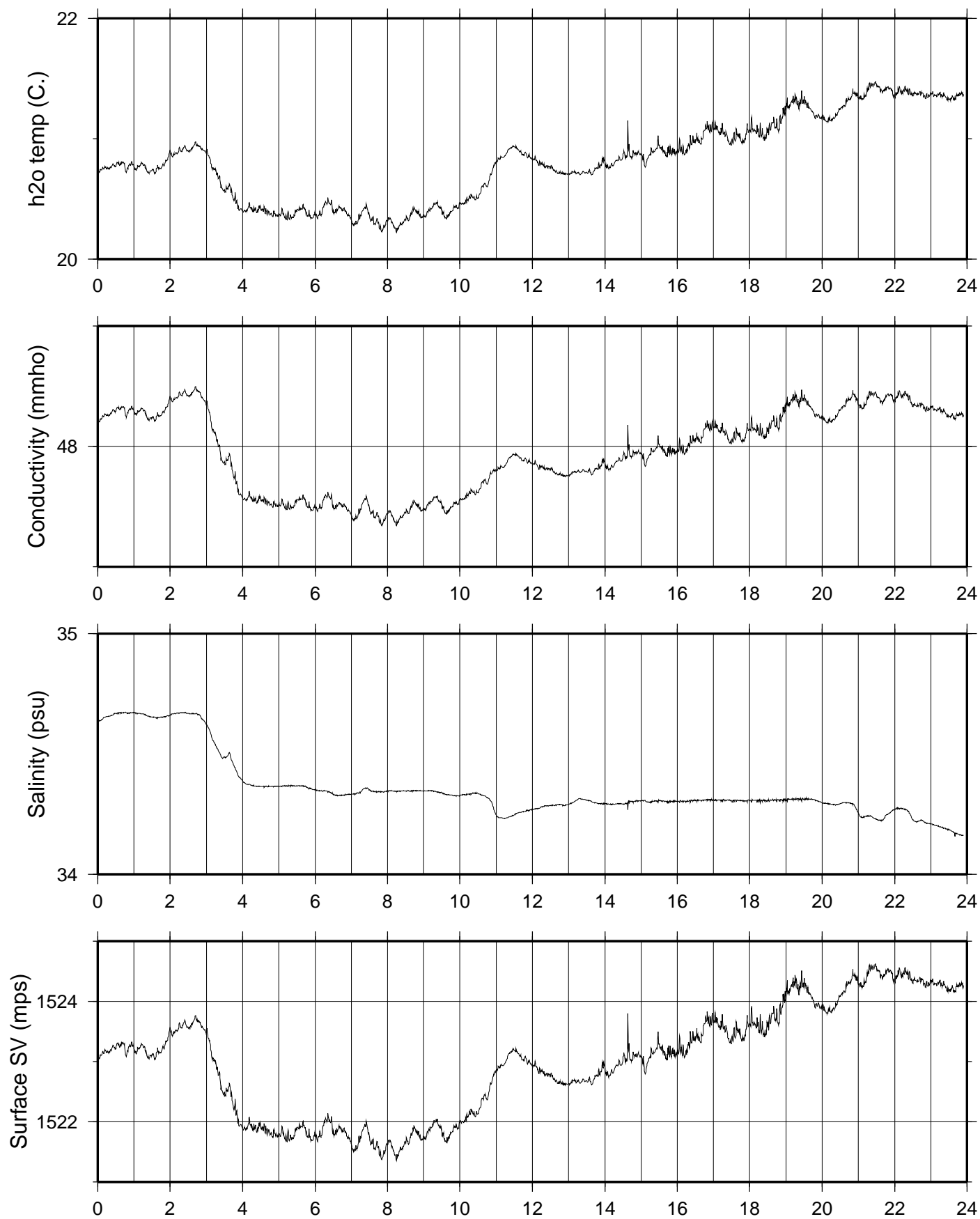




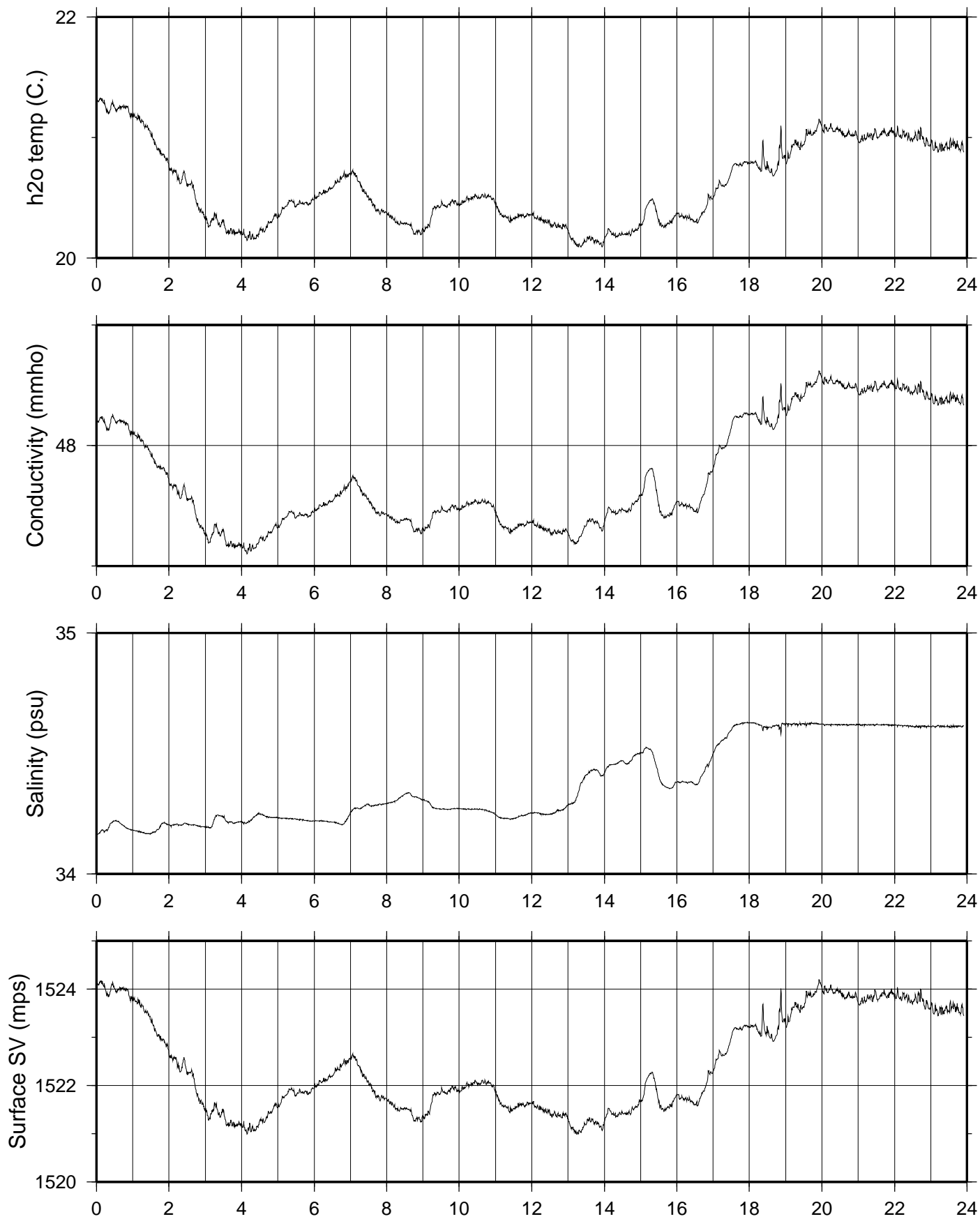
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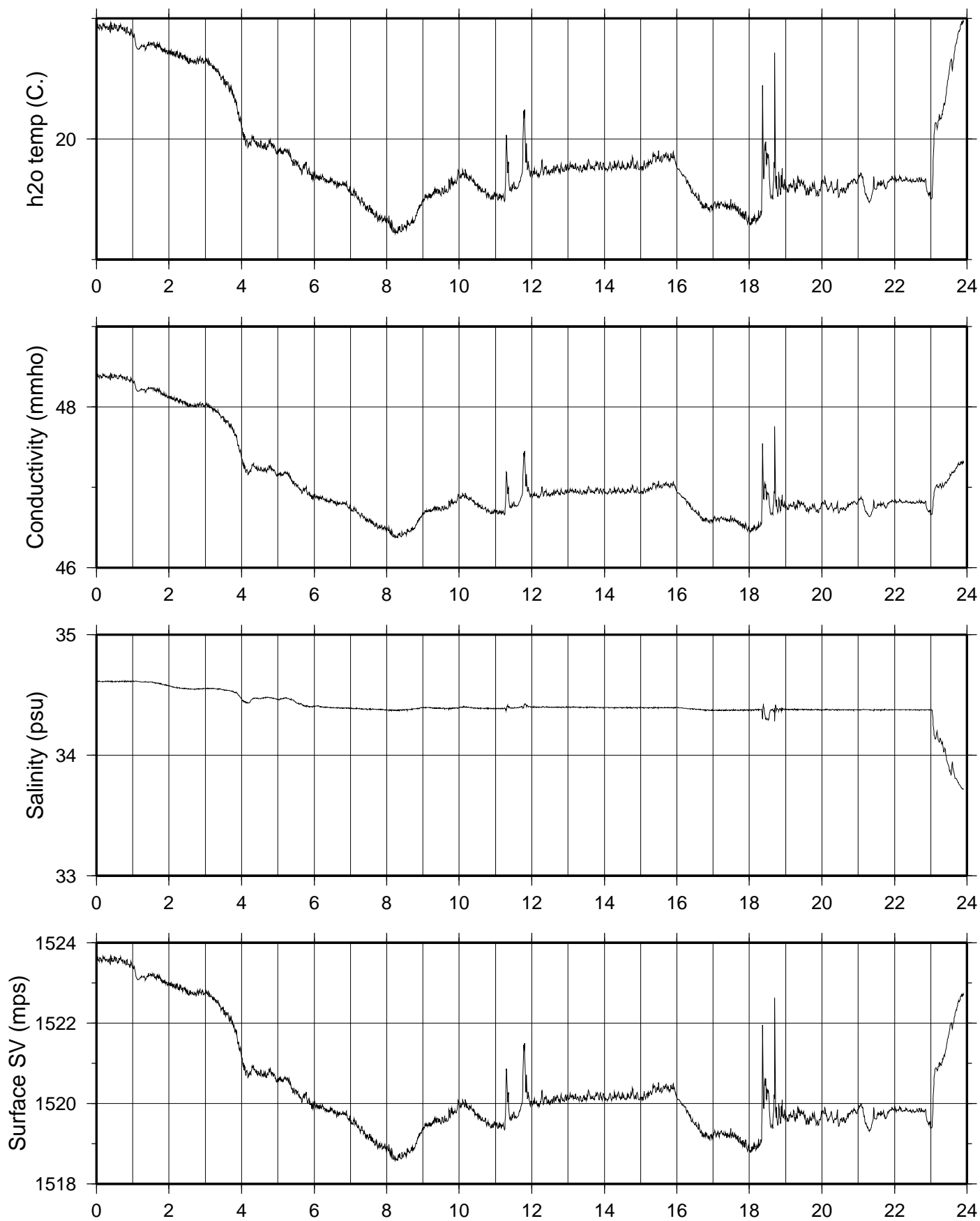
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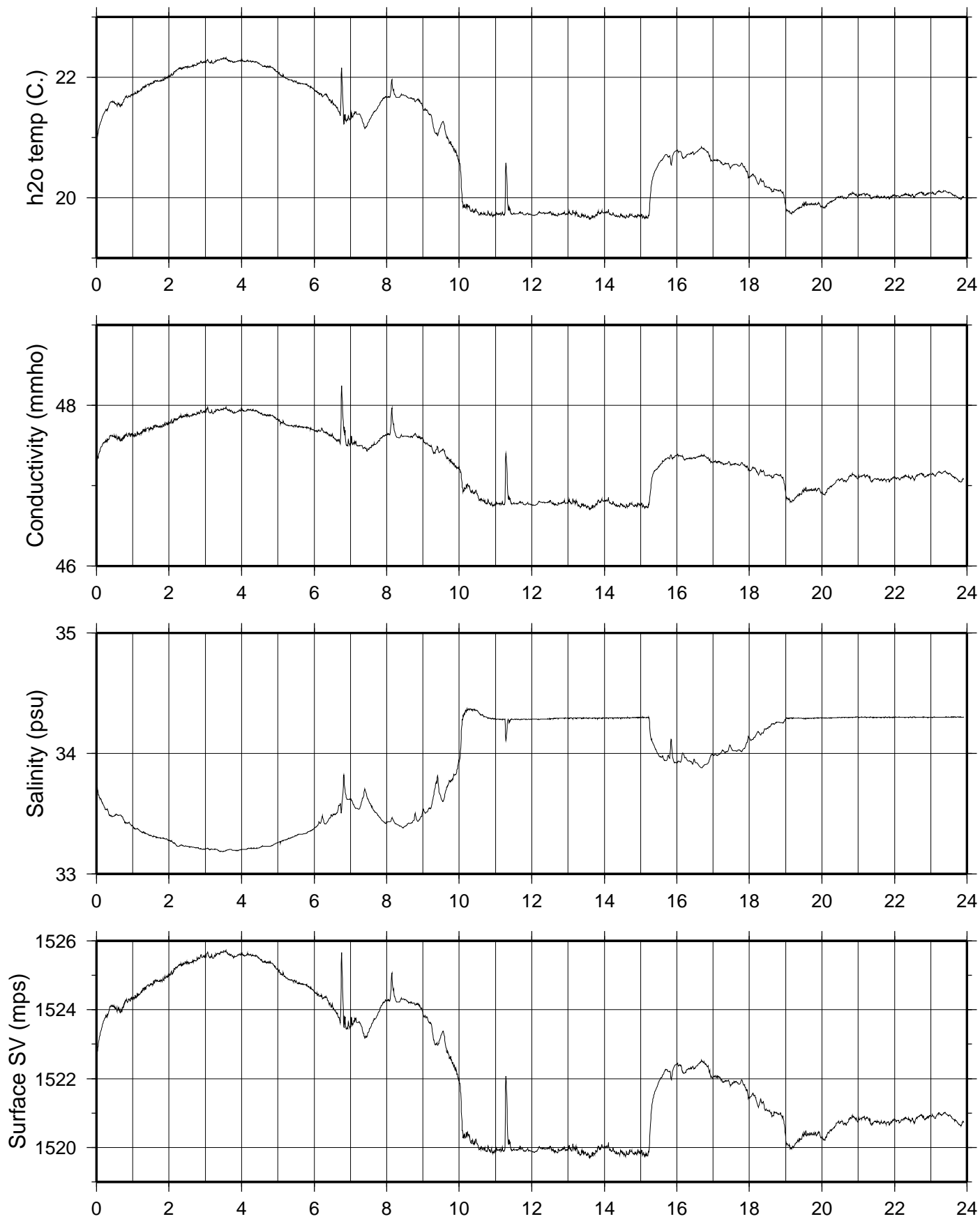
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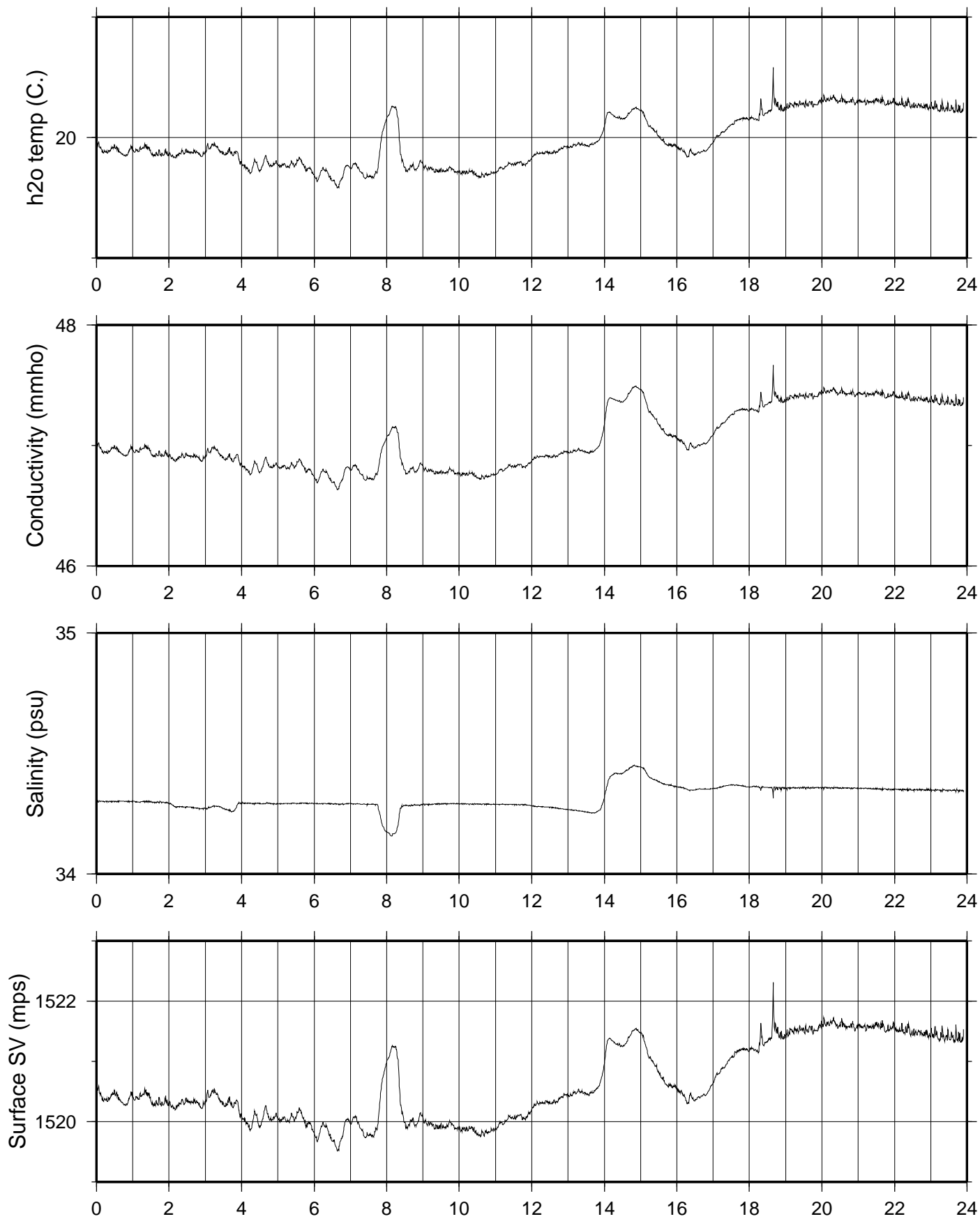
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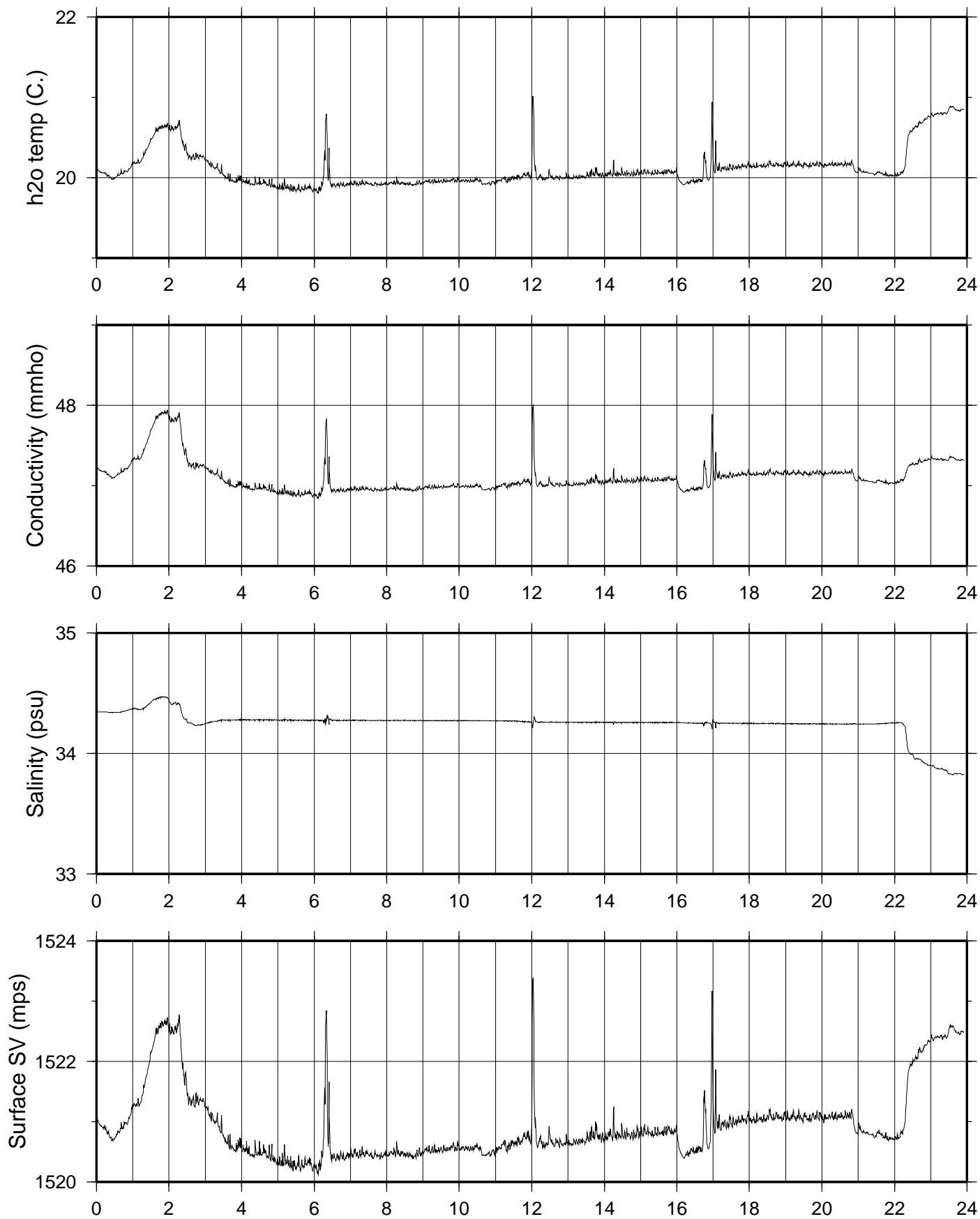
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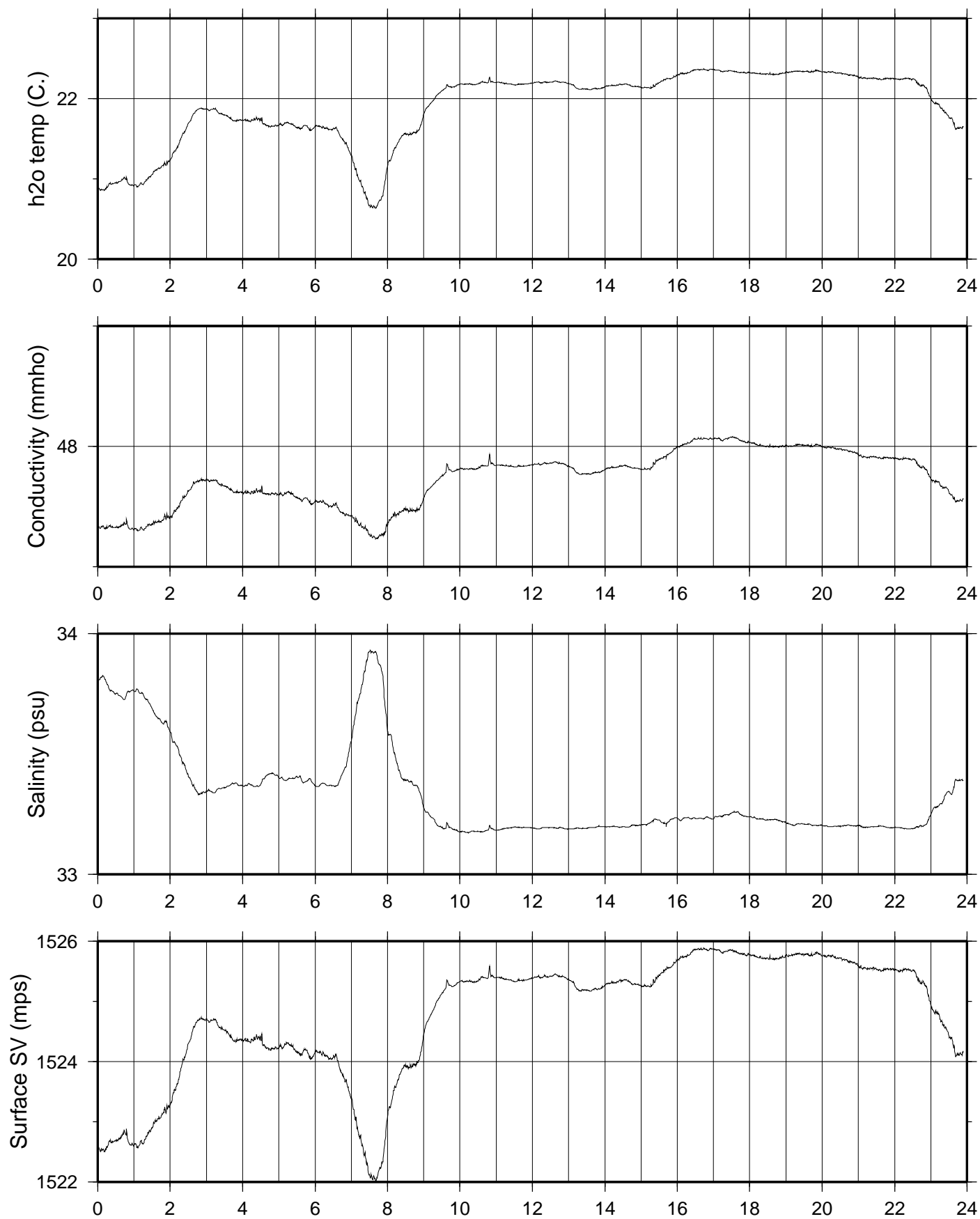
# SSV data DANA02RR 2003oct30



# SSV data DANA02RR 2003oct31

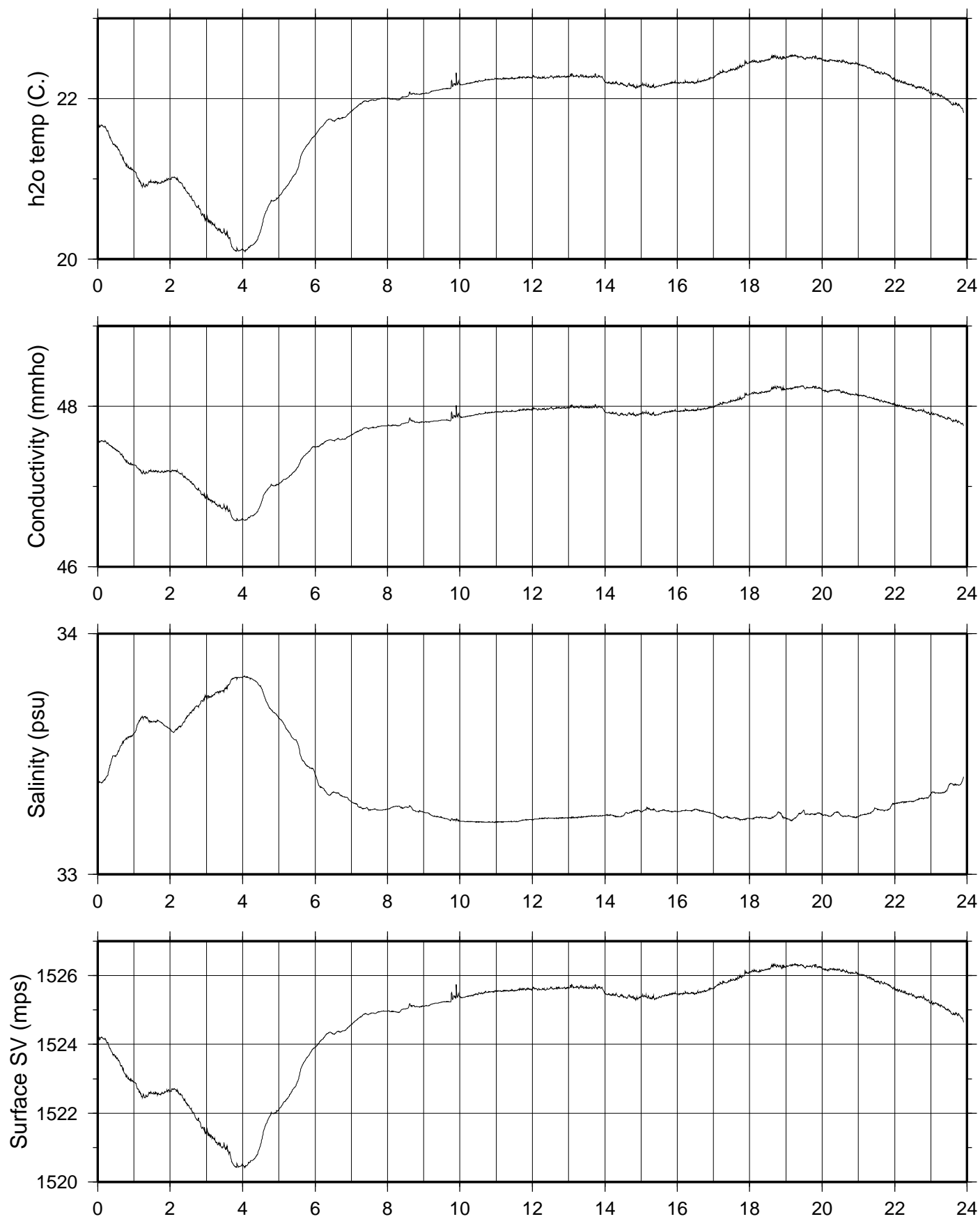


# SSV data DANA02RR 2003nov01

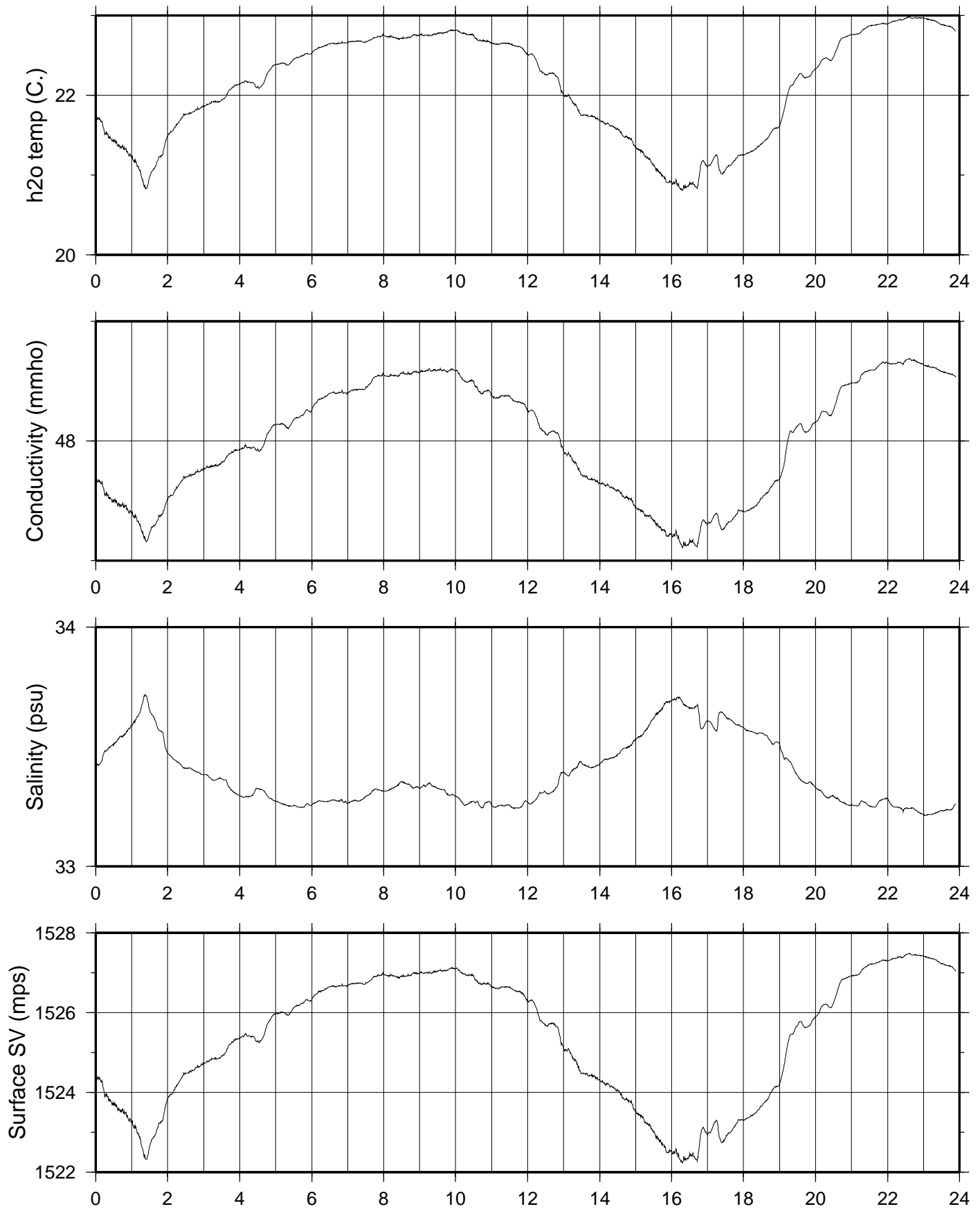




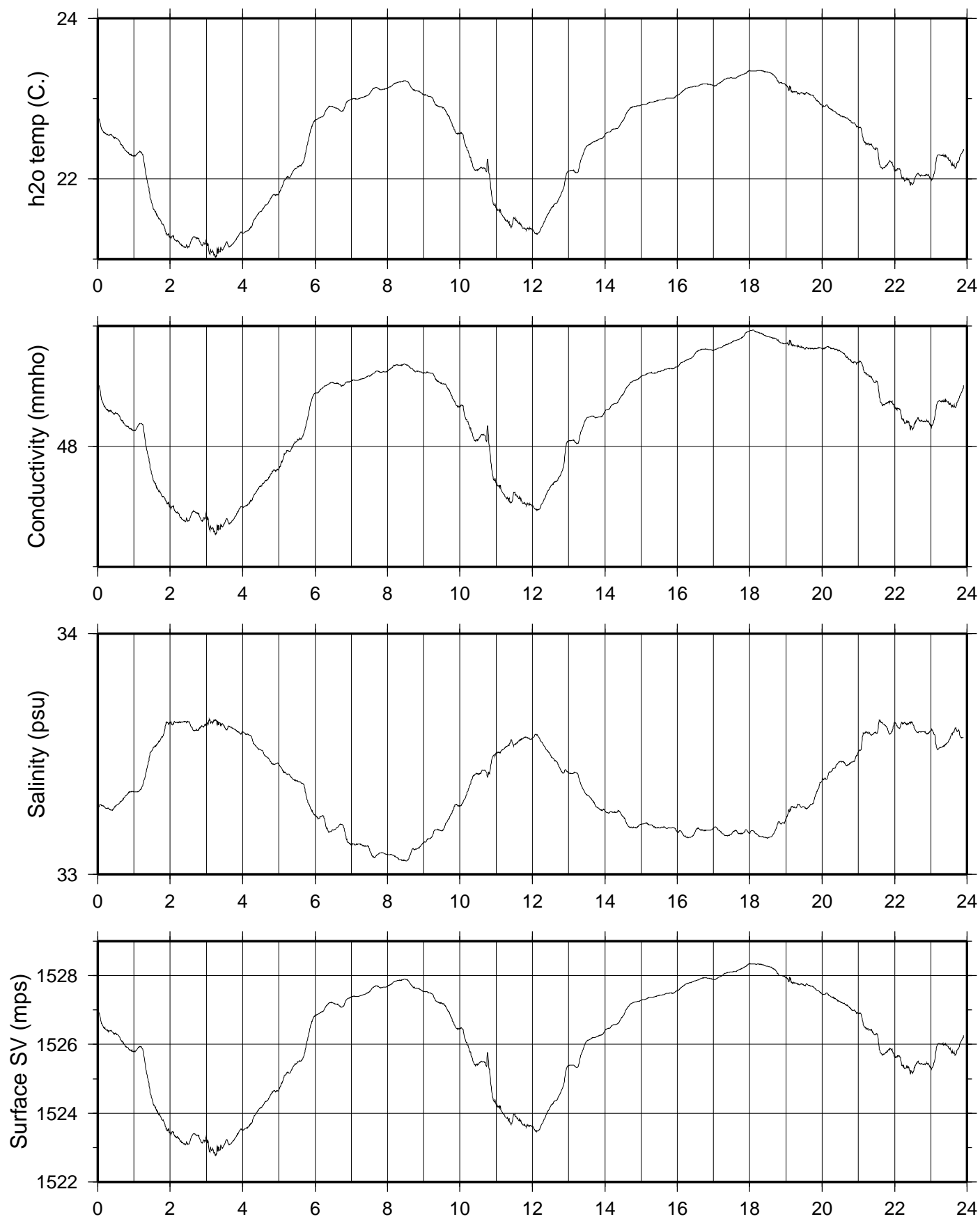
# SSV data DANA02RR 2003nov02



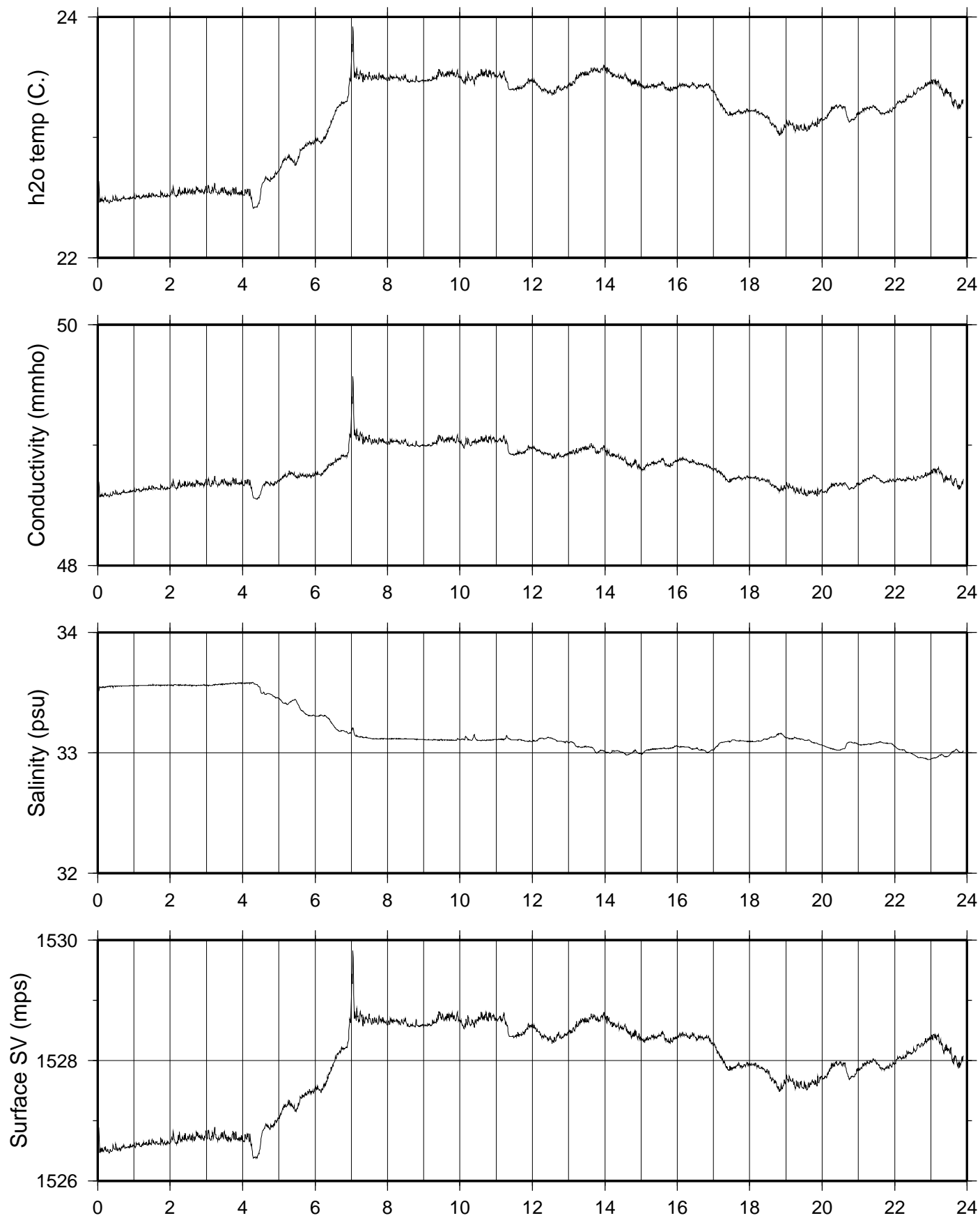
# SSV data DANA02RR 2003nov03



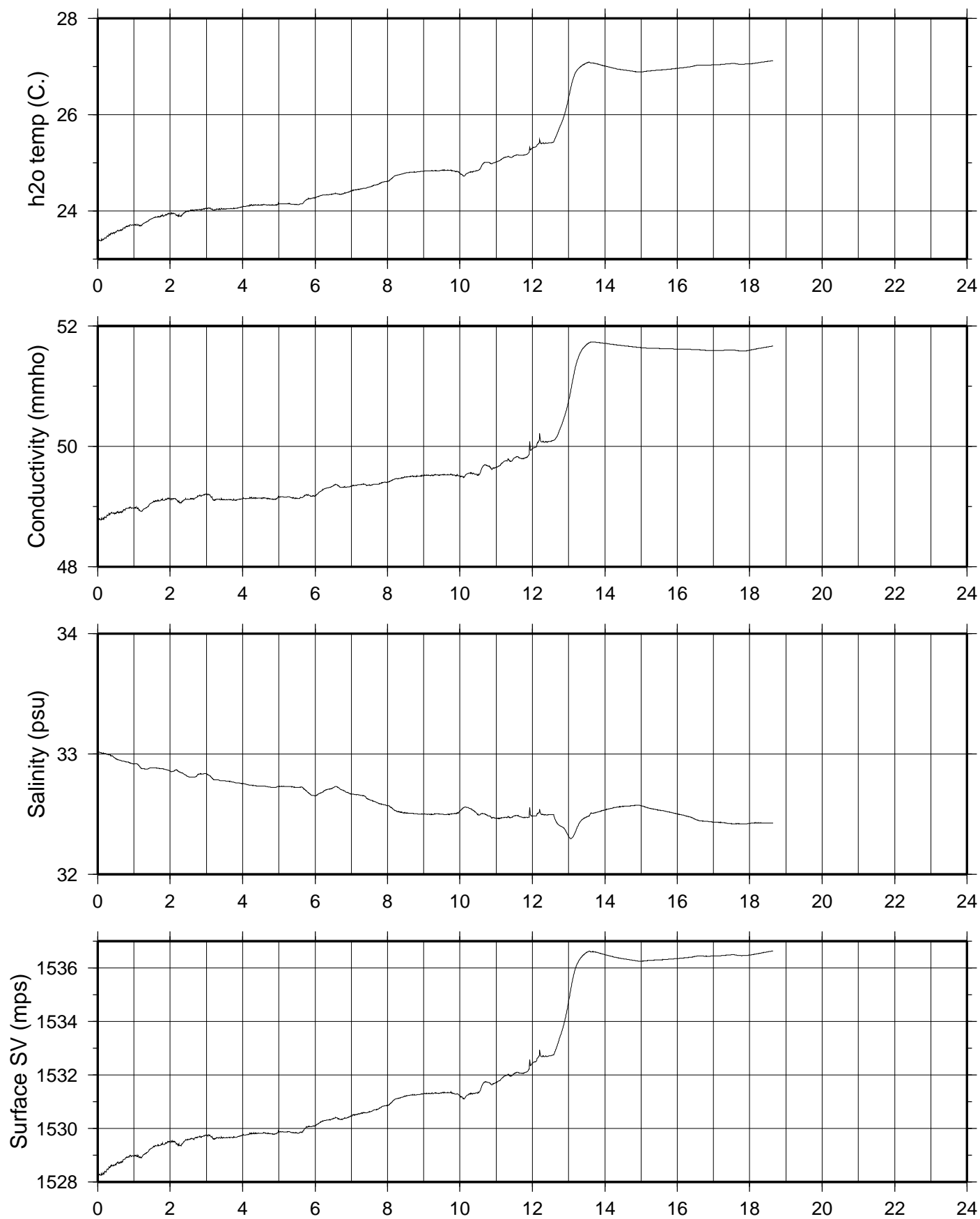
# SSV data DANA02RR 2003nov04



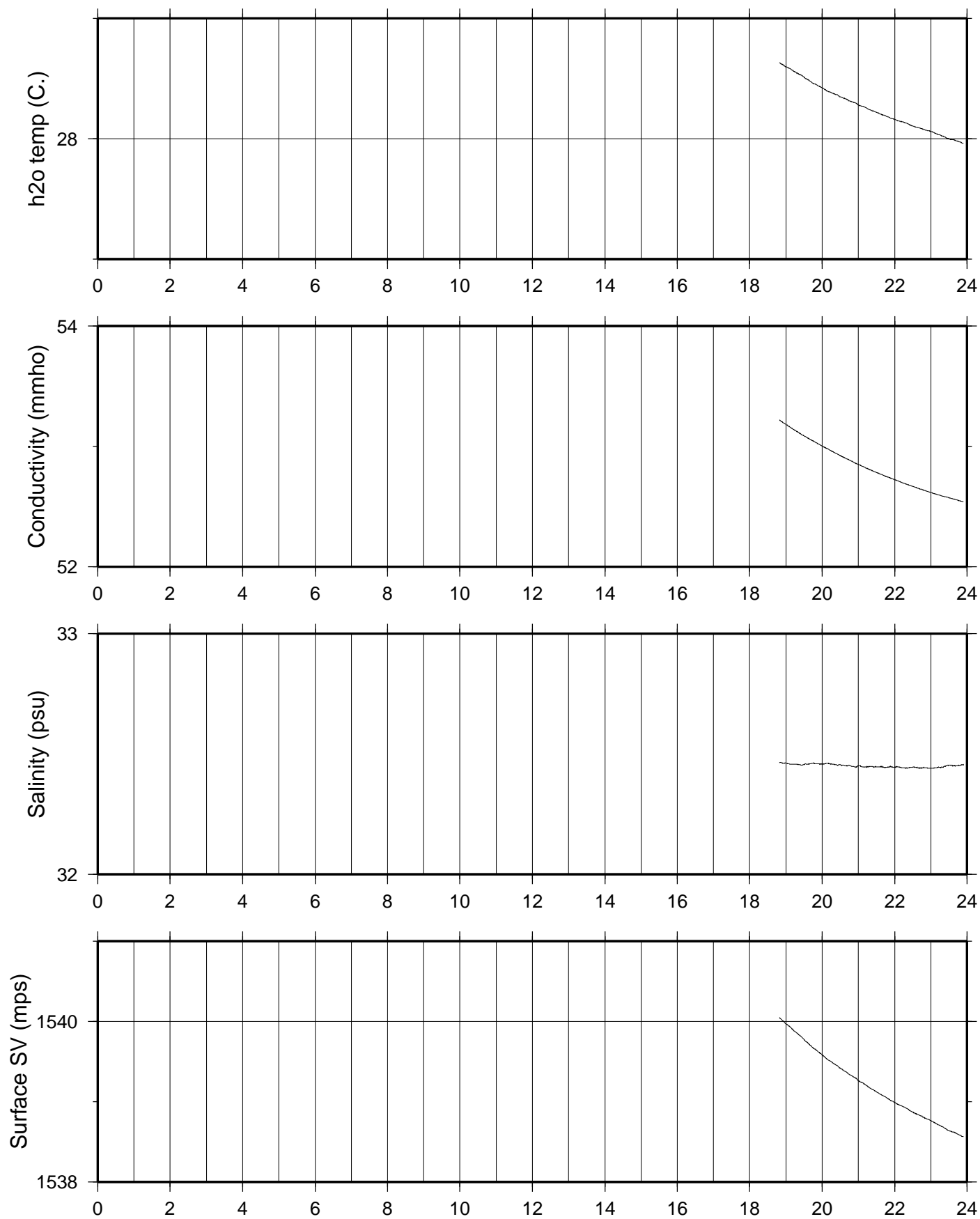
# SSV data DANA02RR 2003nov05



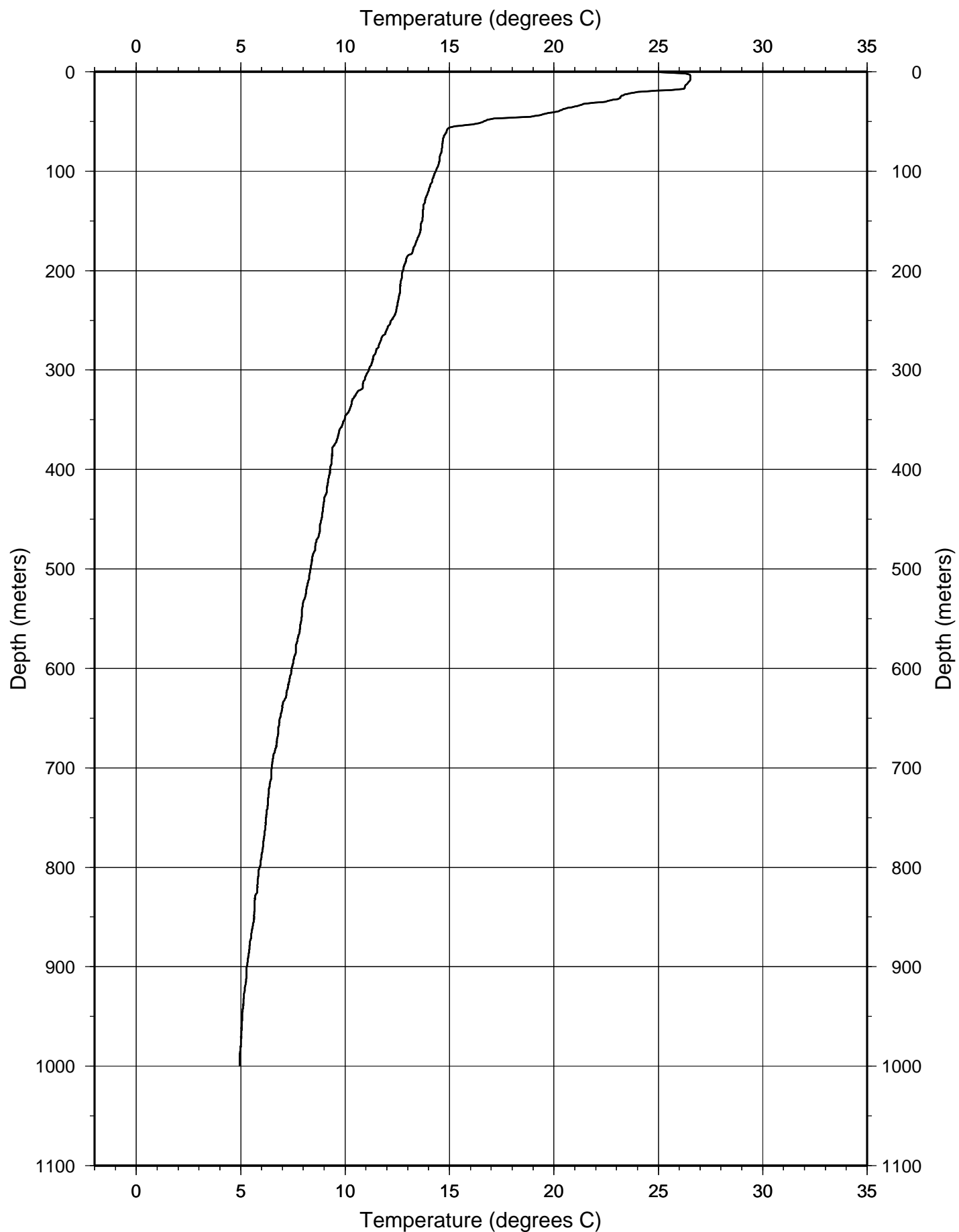
# SSV data DANA02RR 2003nov06.1



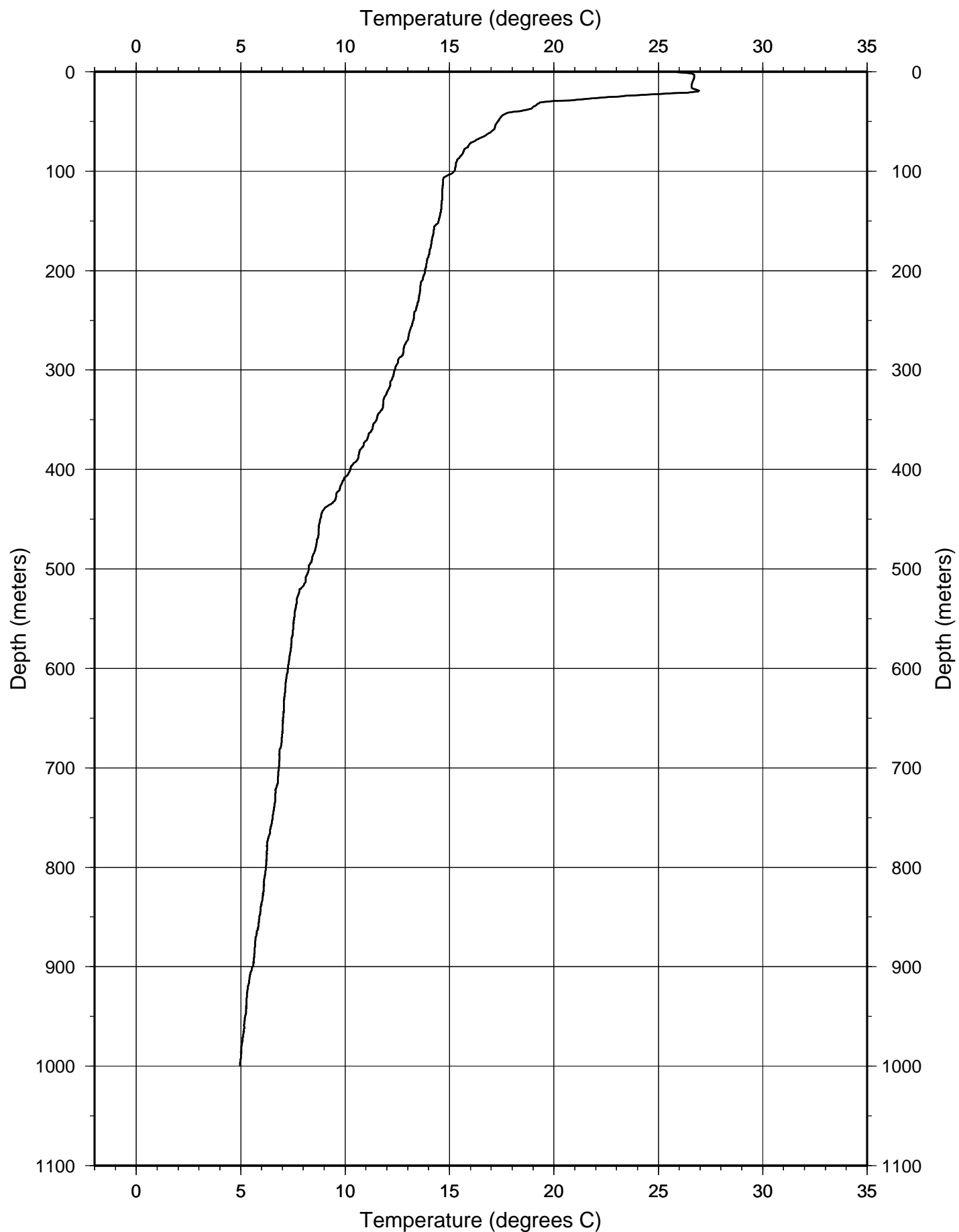
# SSV data DANA02RR 2003nov08



DANA02RR XBT tf\_00026.edf

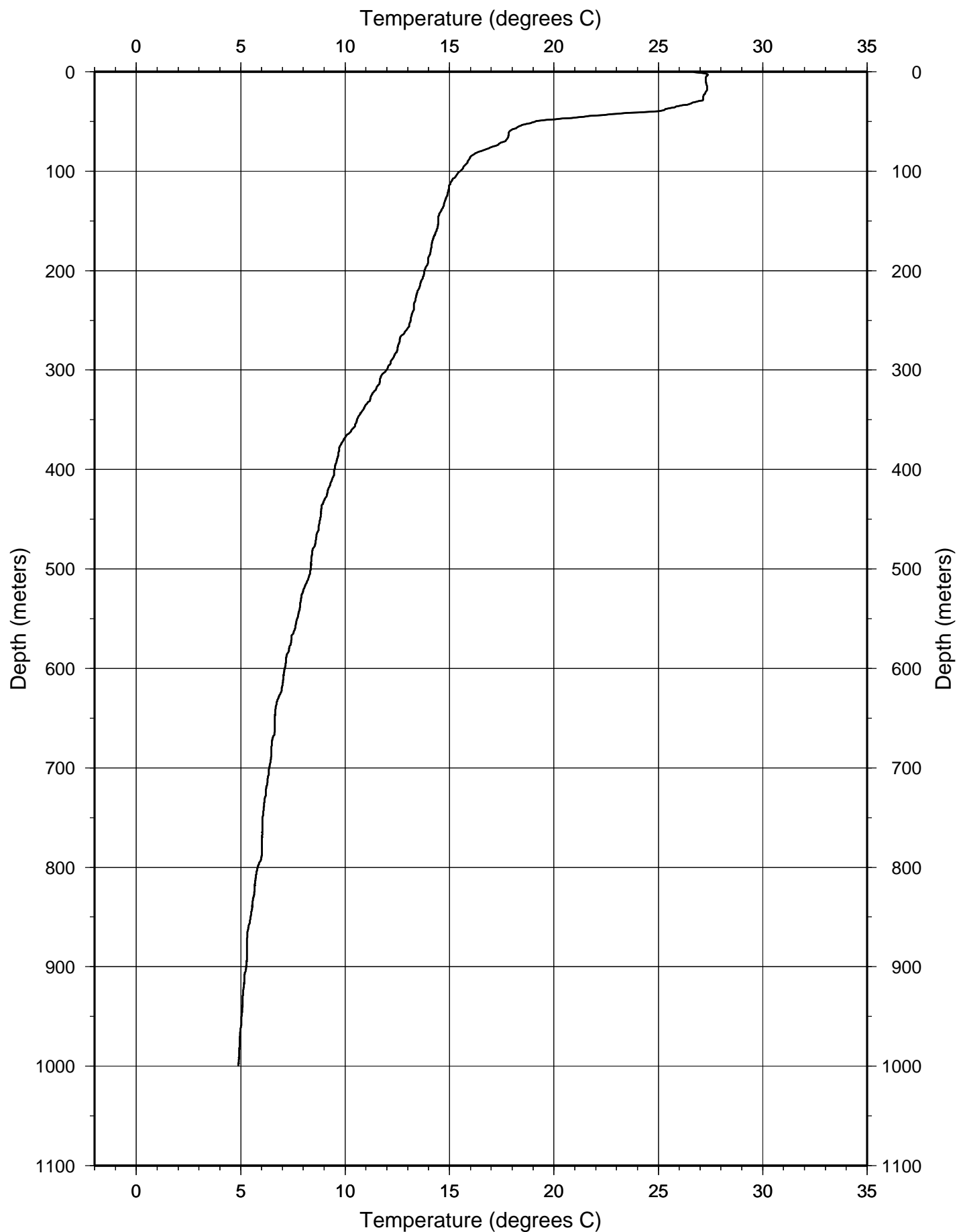


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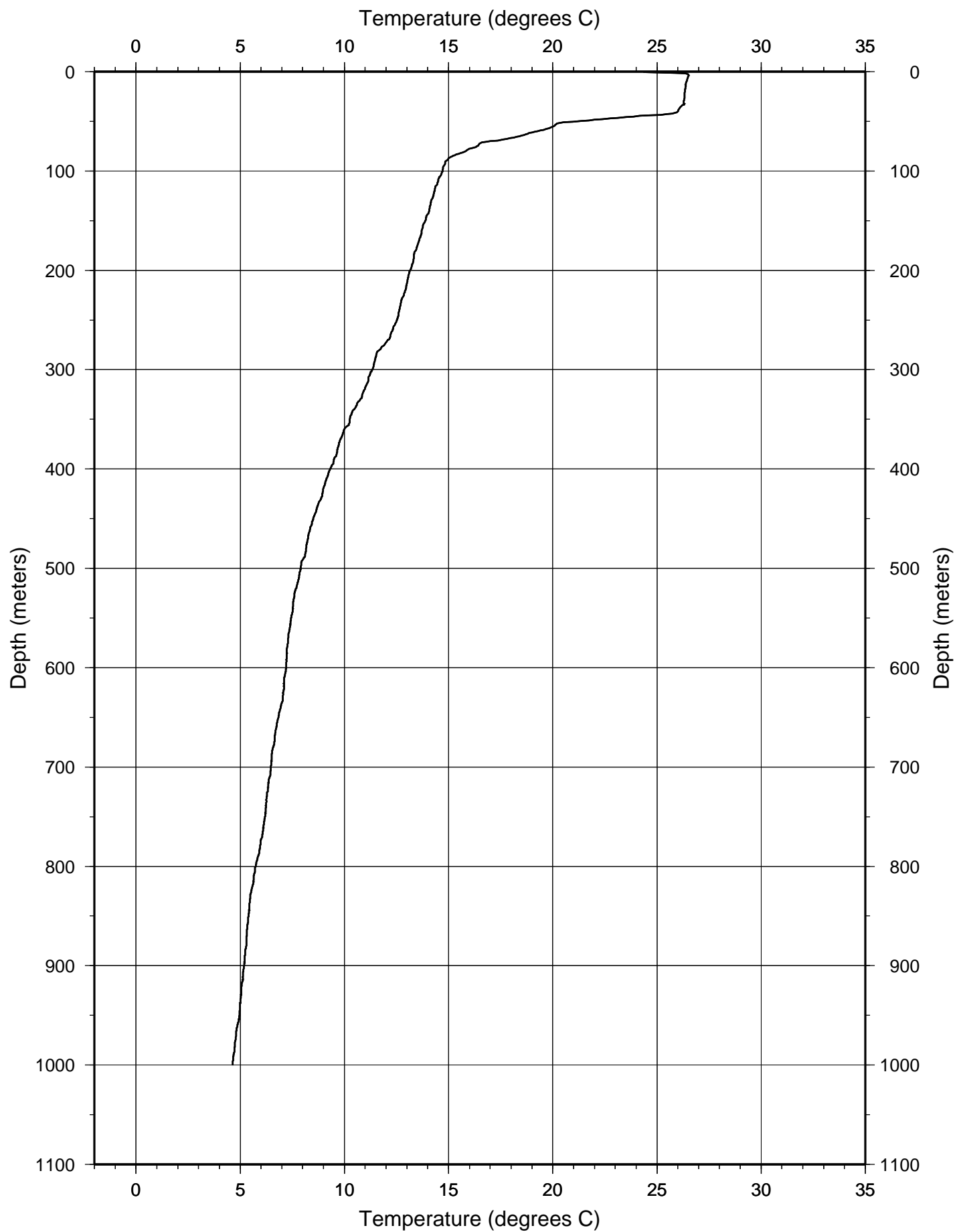




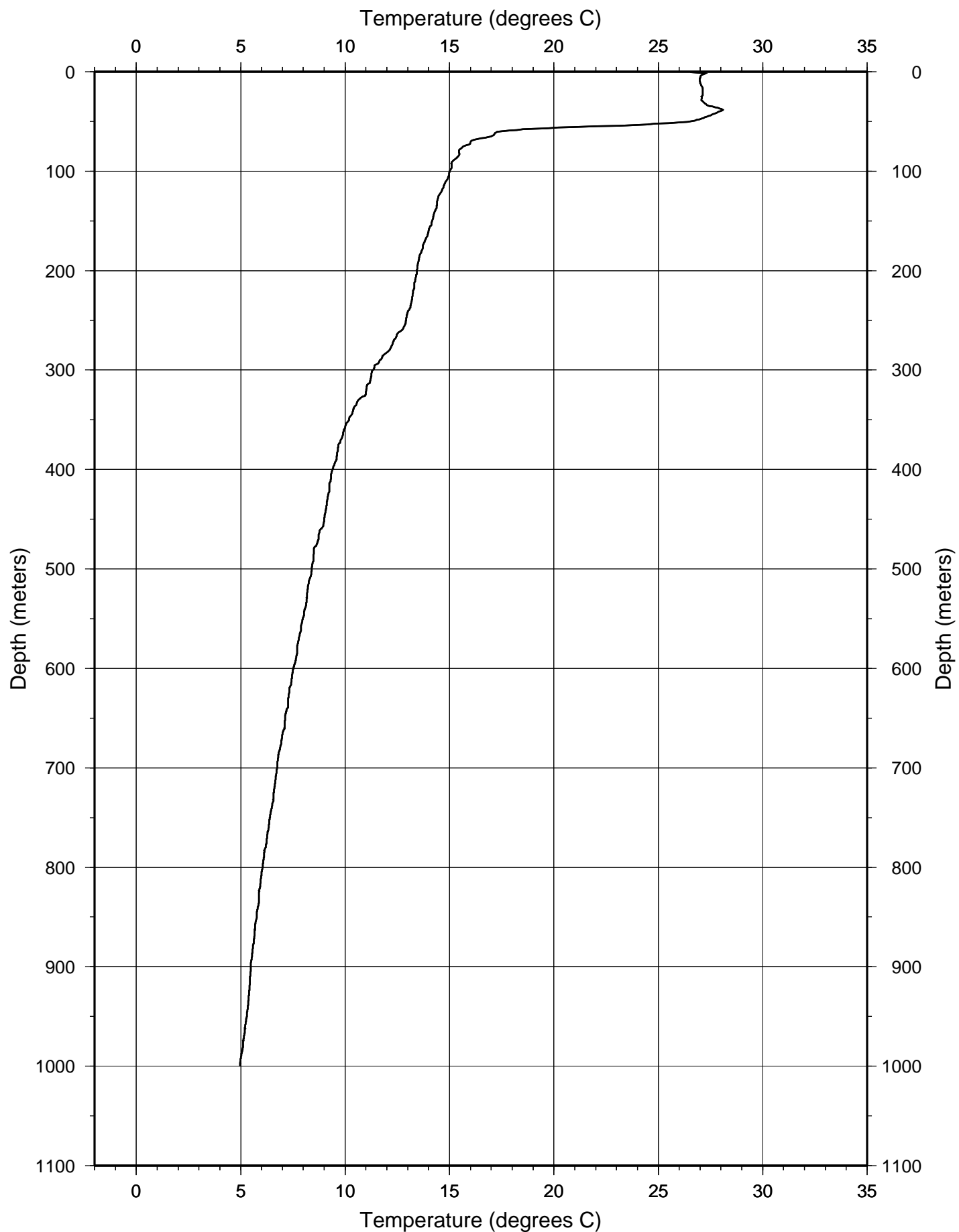
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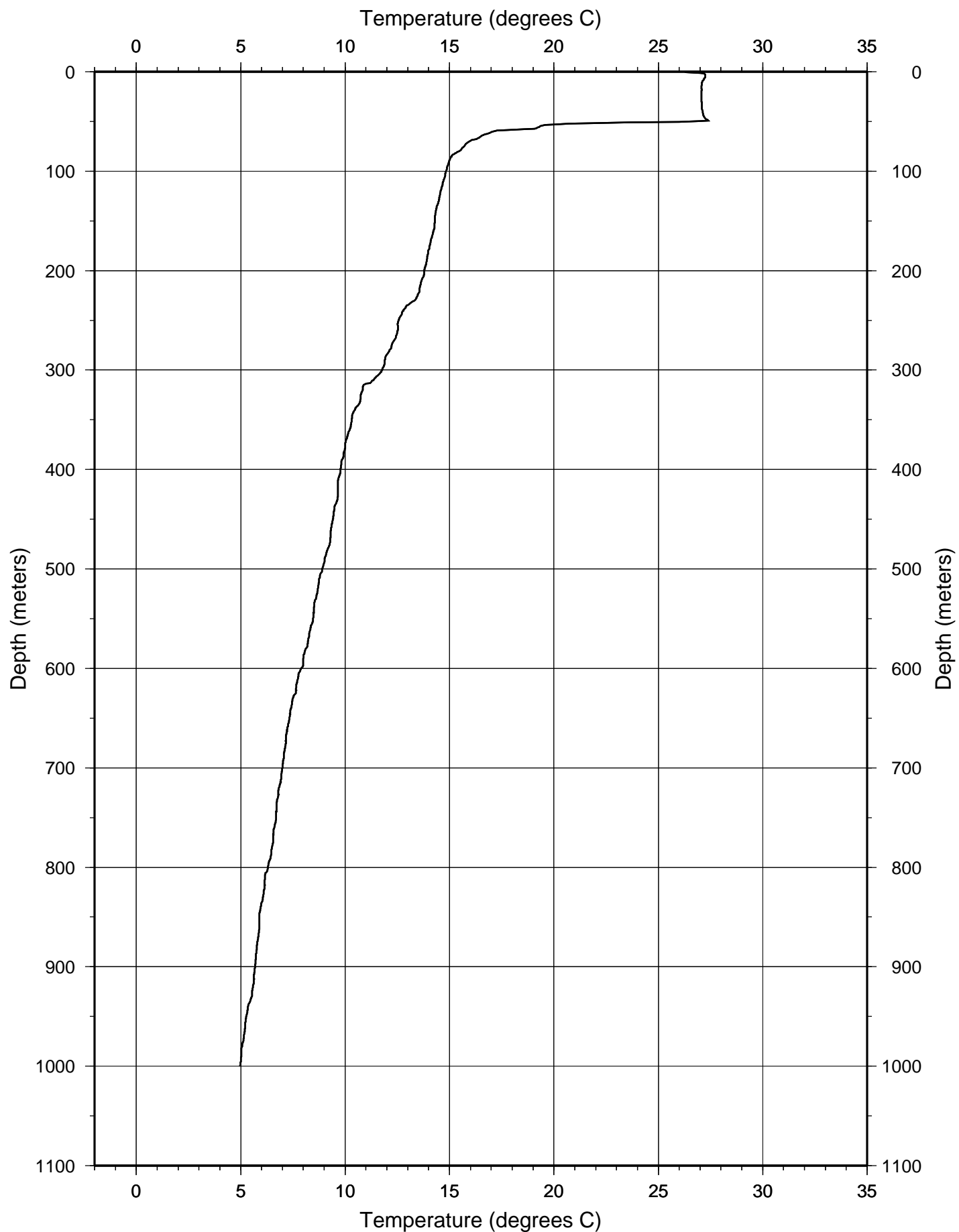
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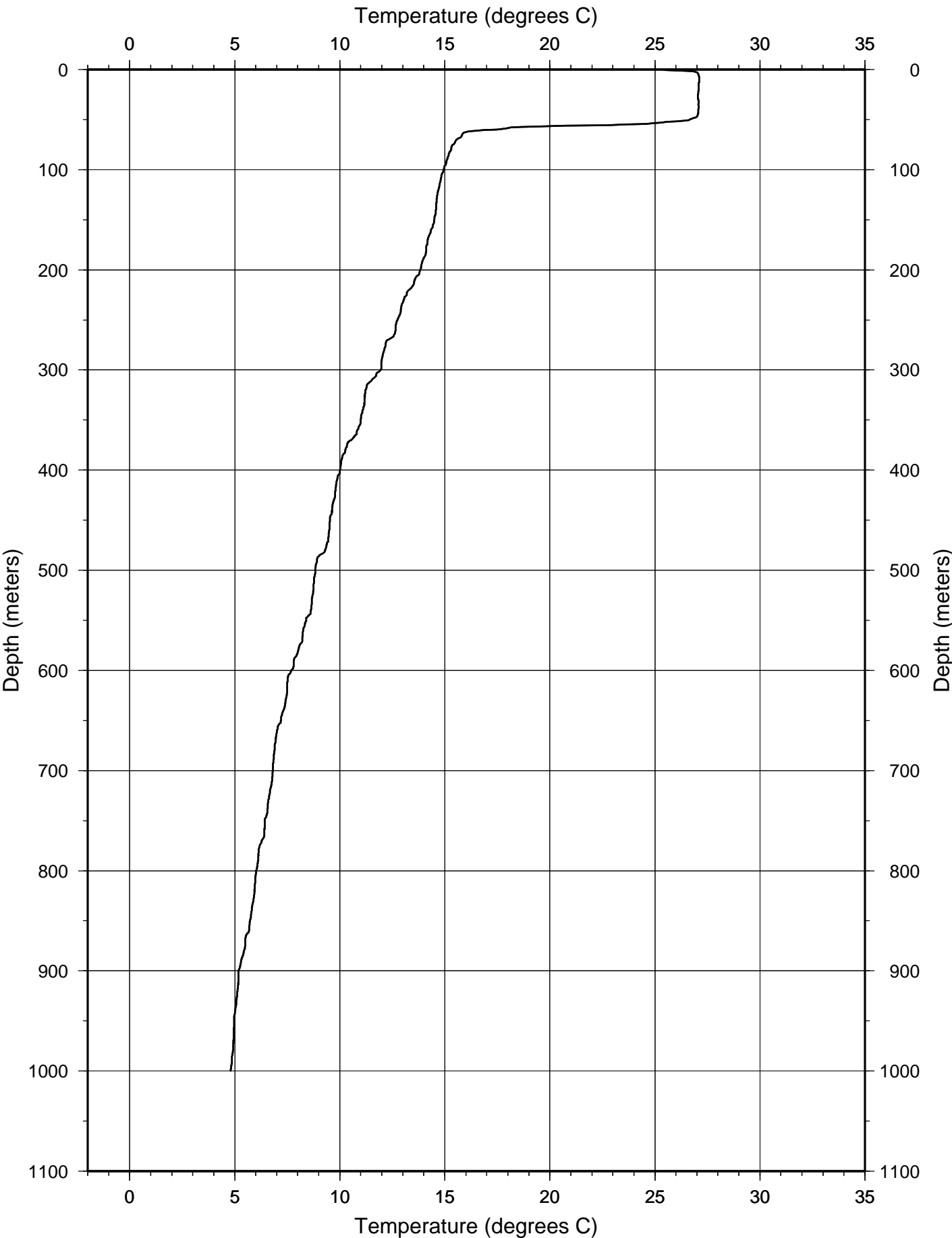
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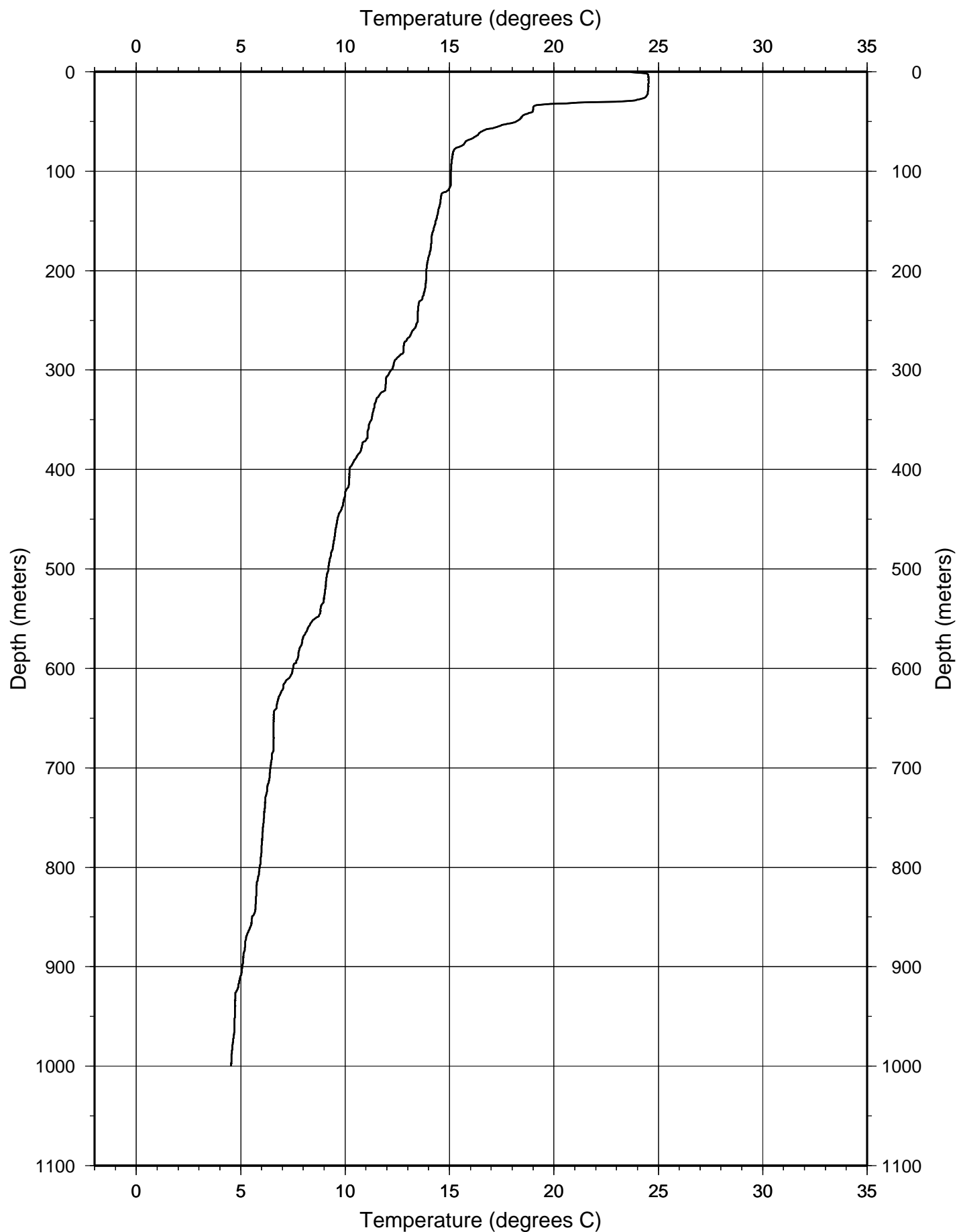
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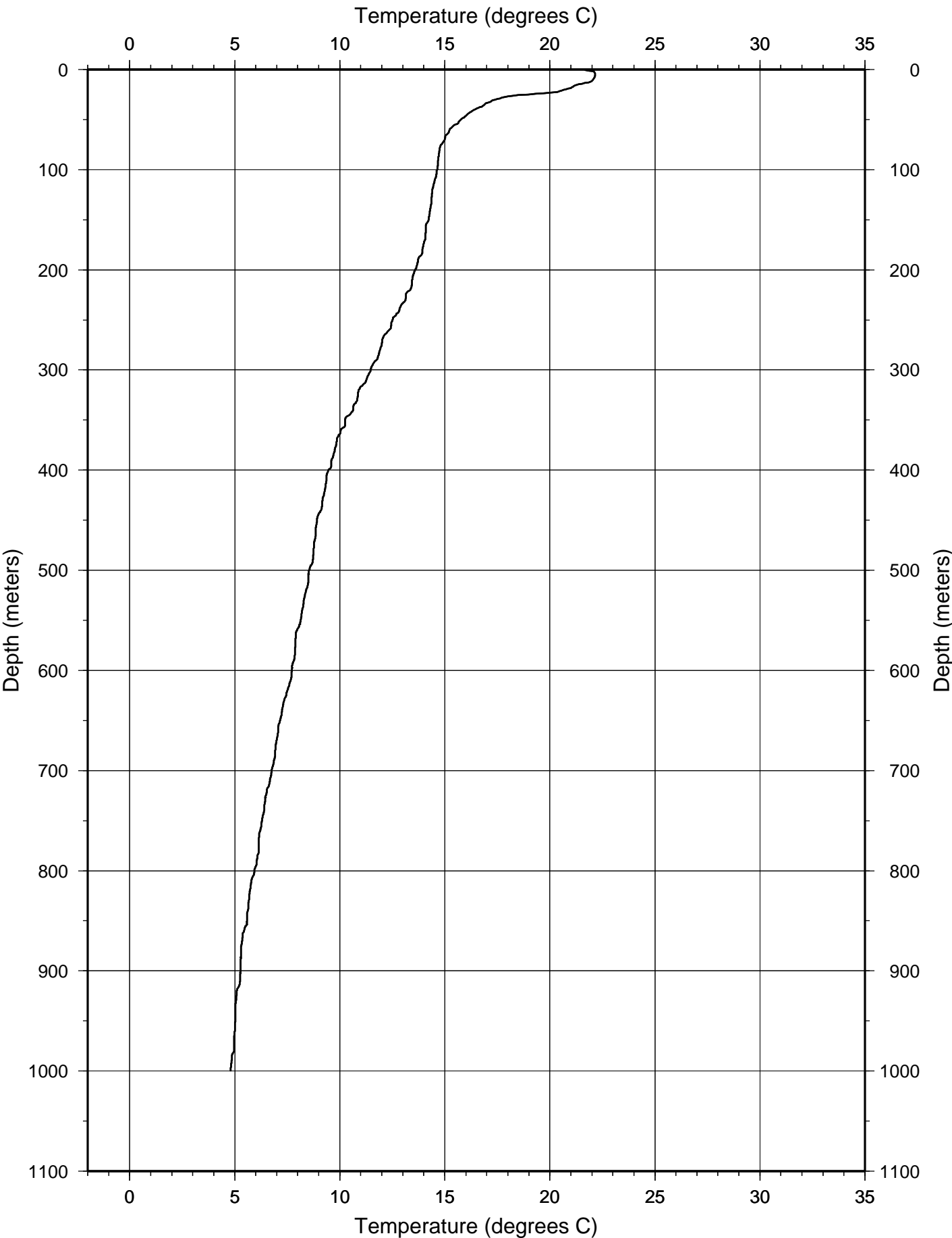
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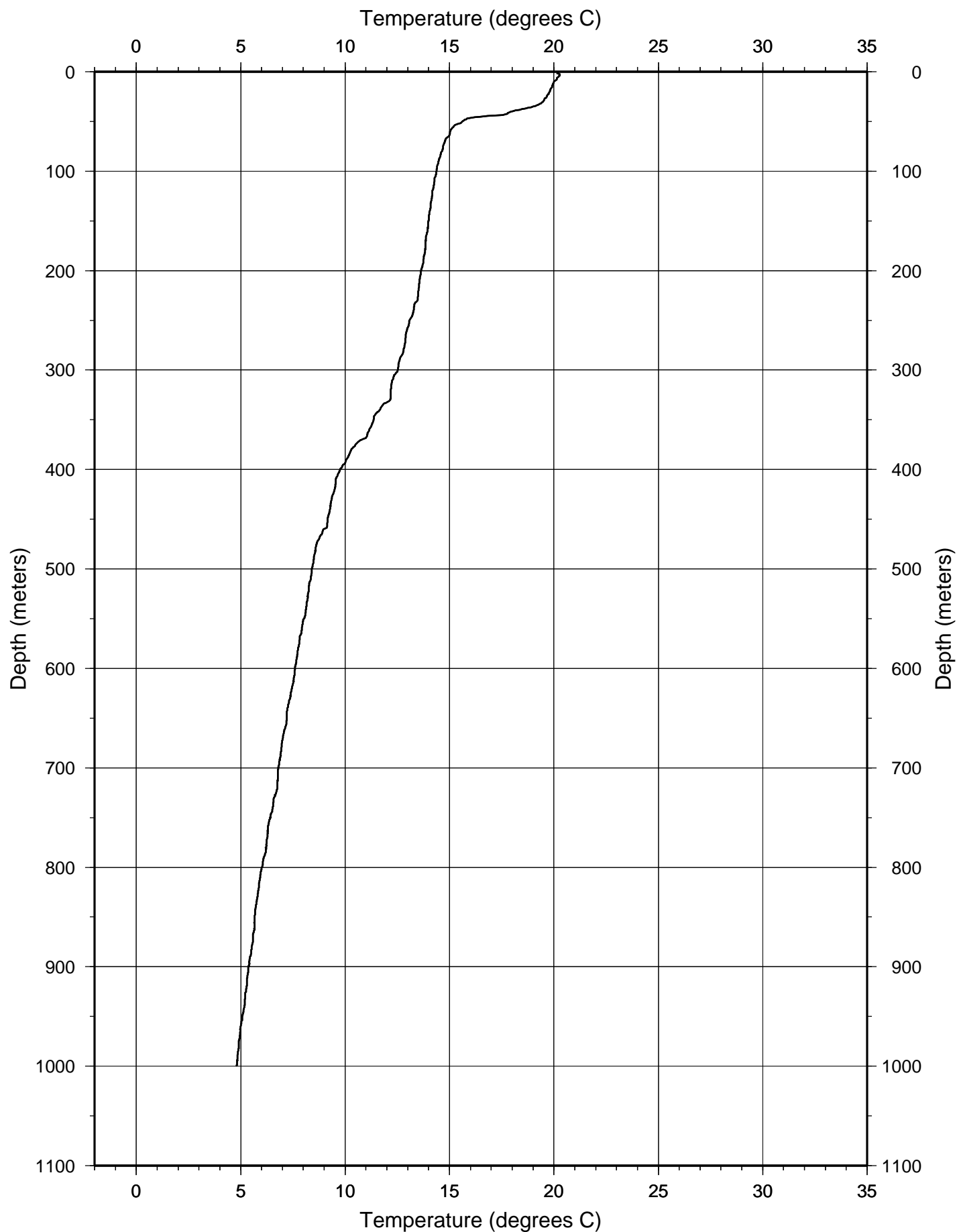
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DANA02RR XBT tf\_00039.edf

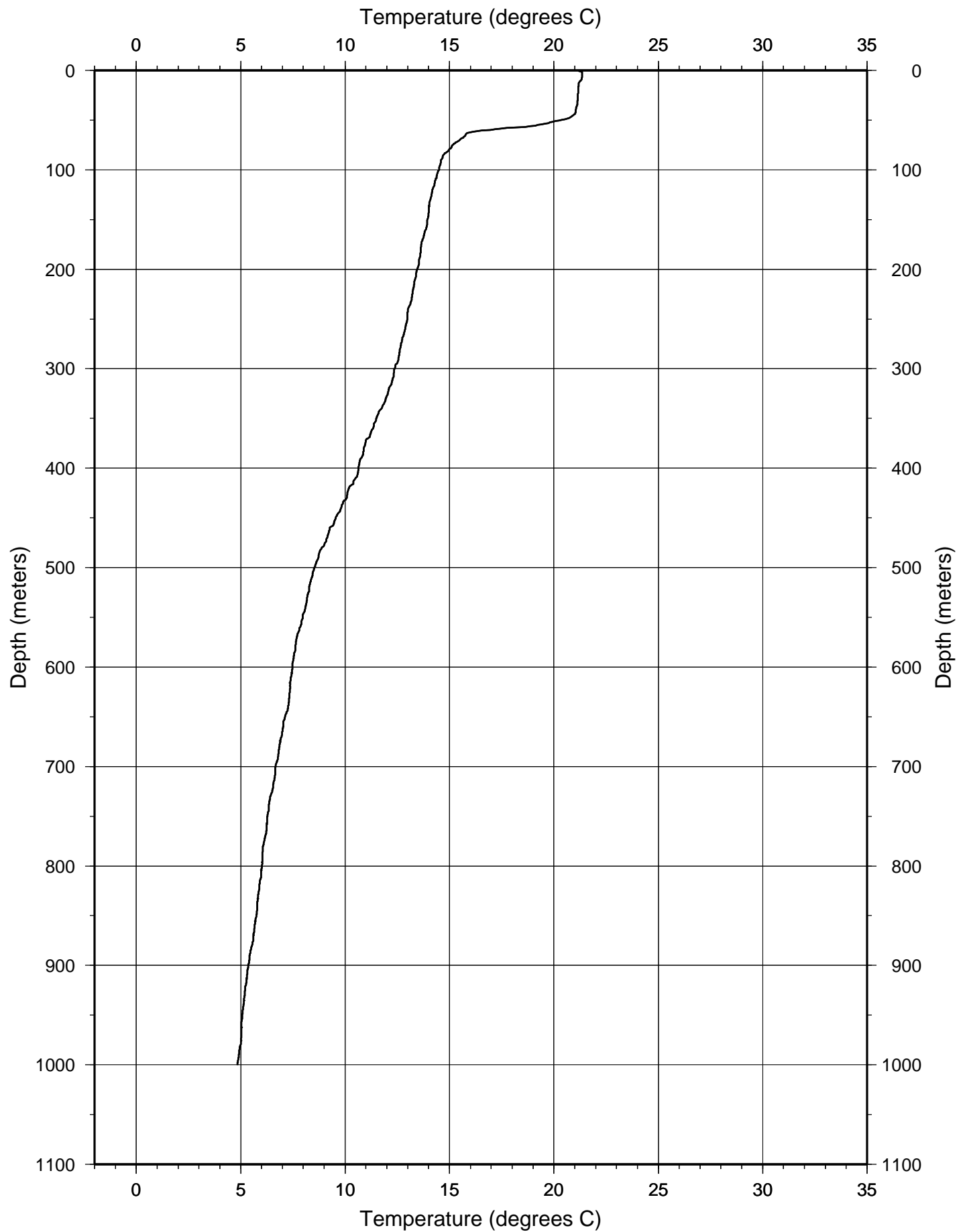


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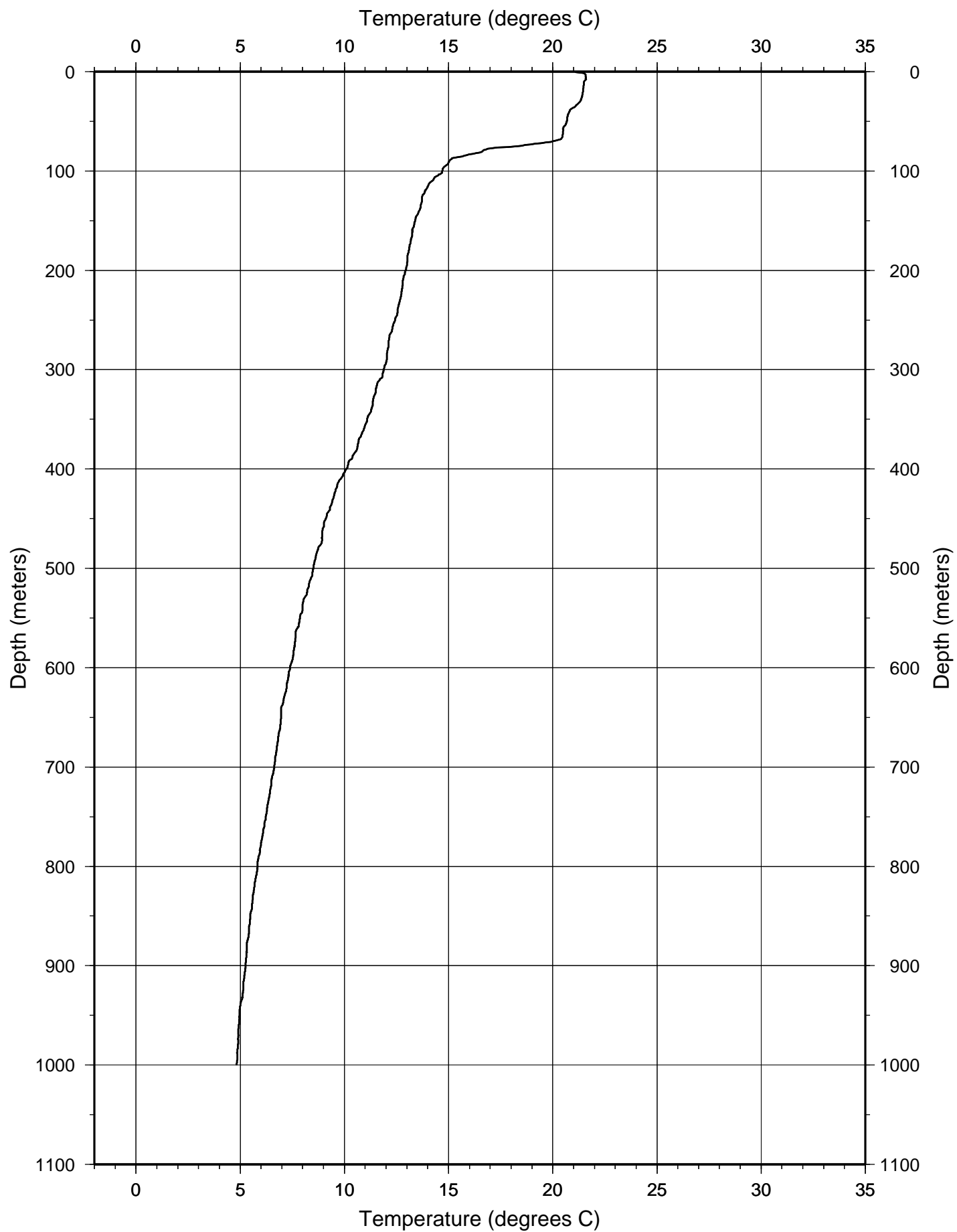




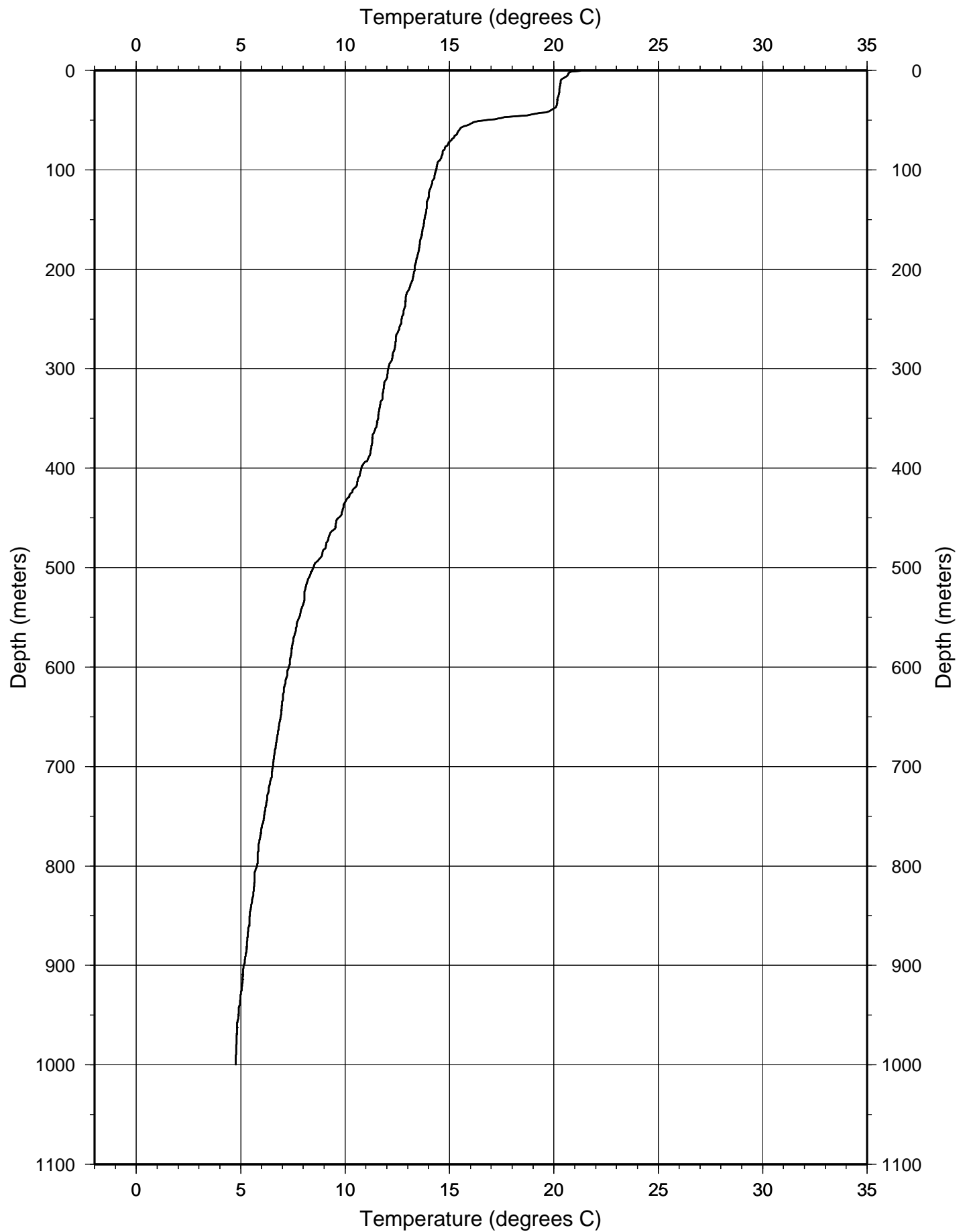
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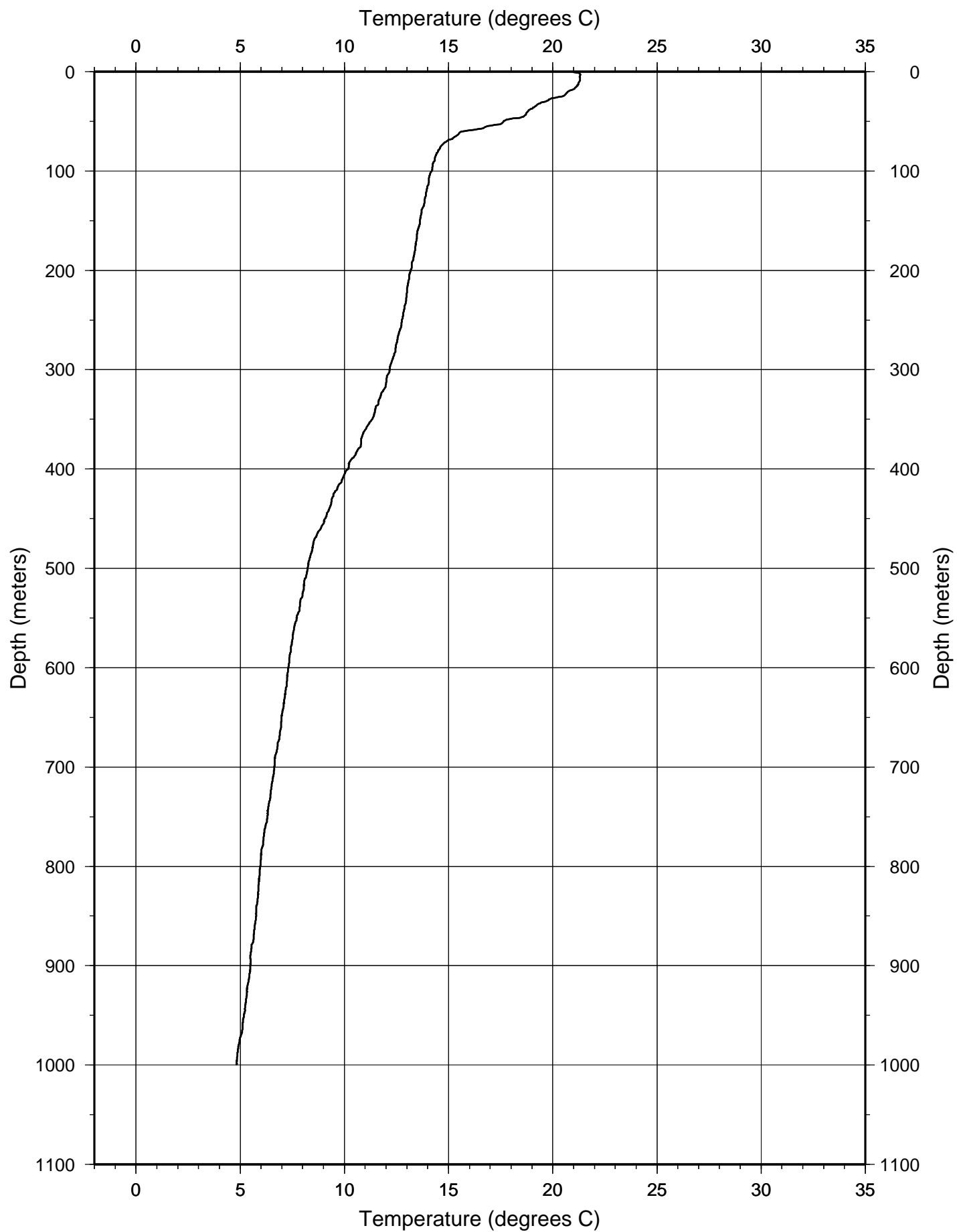
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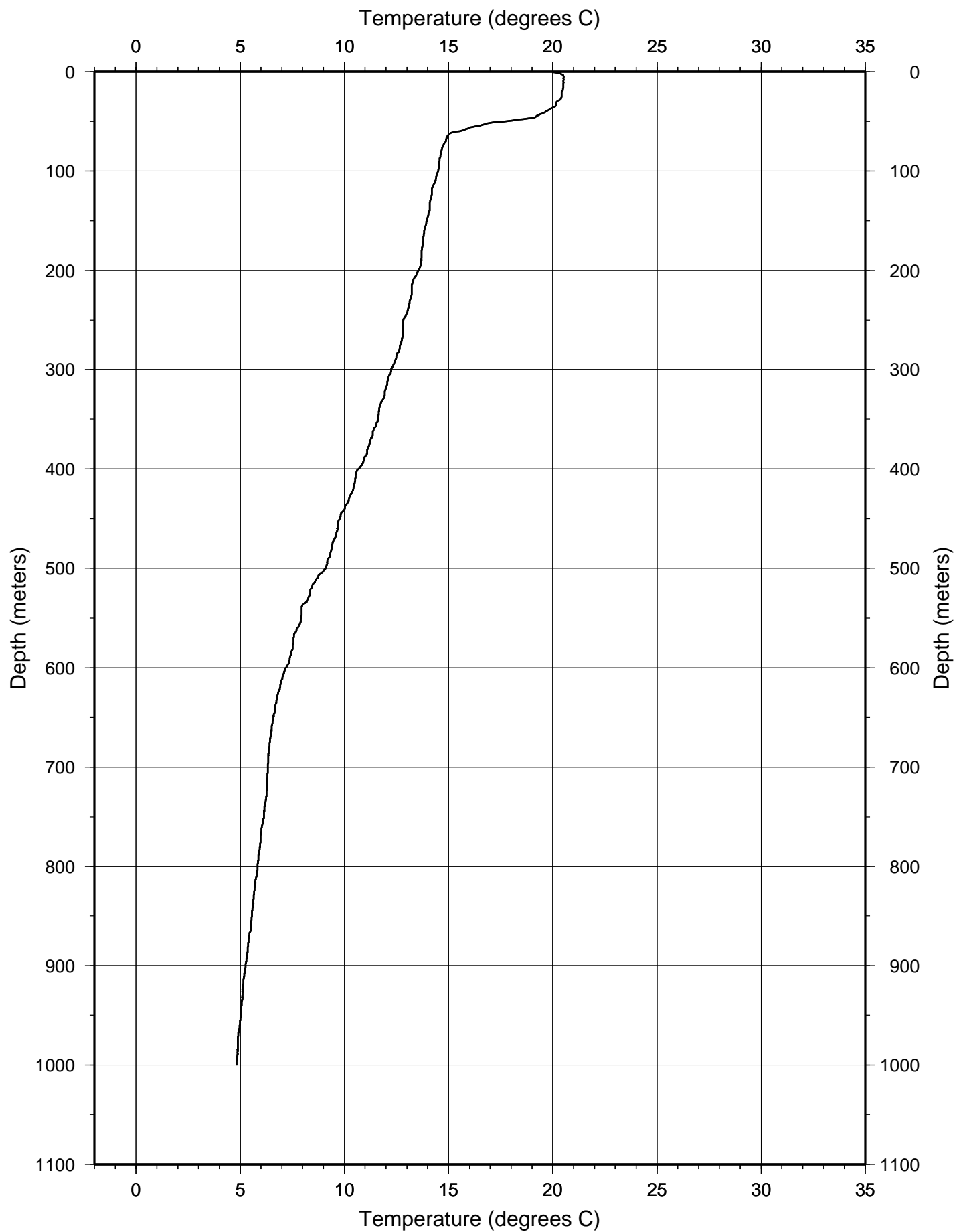
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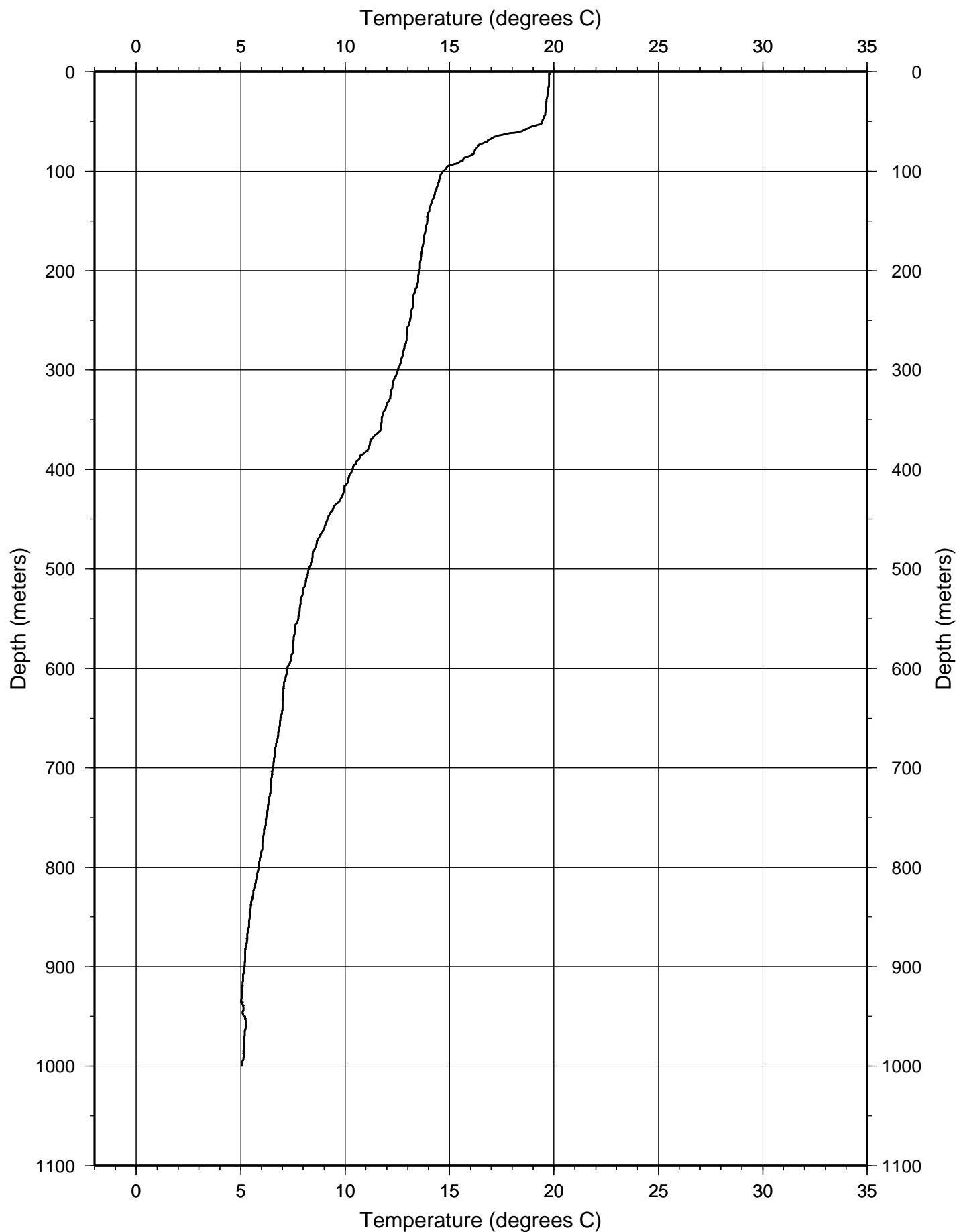
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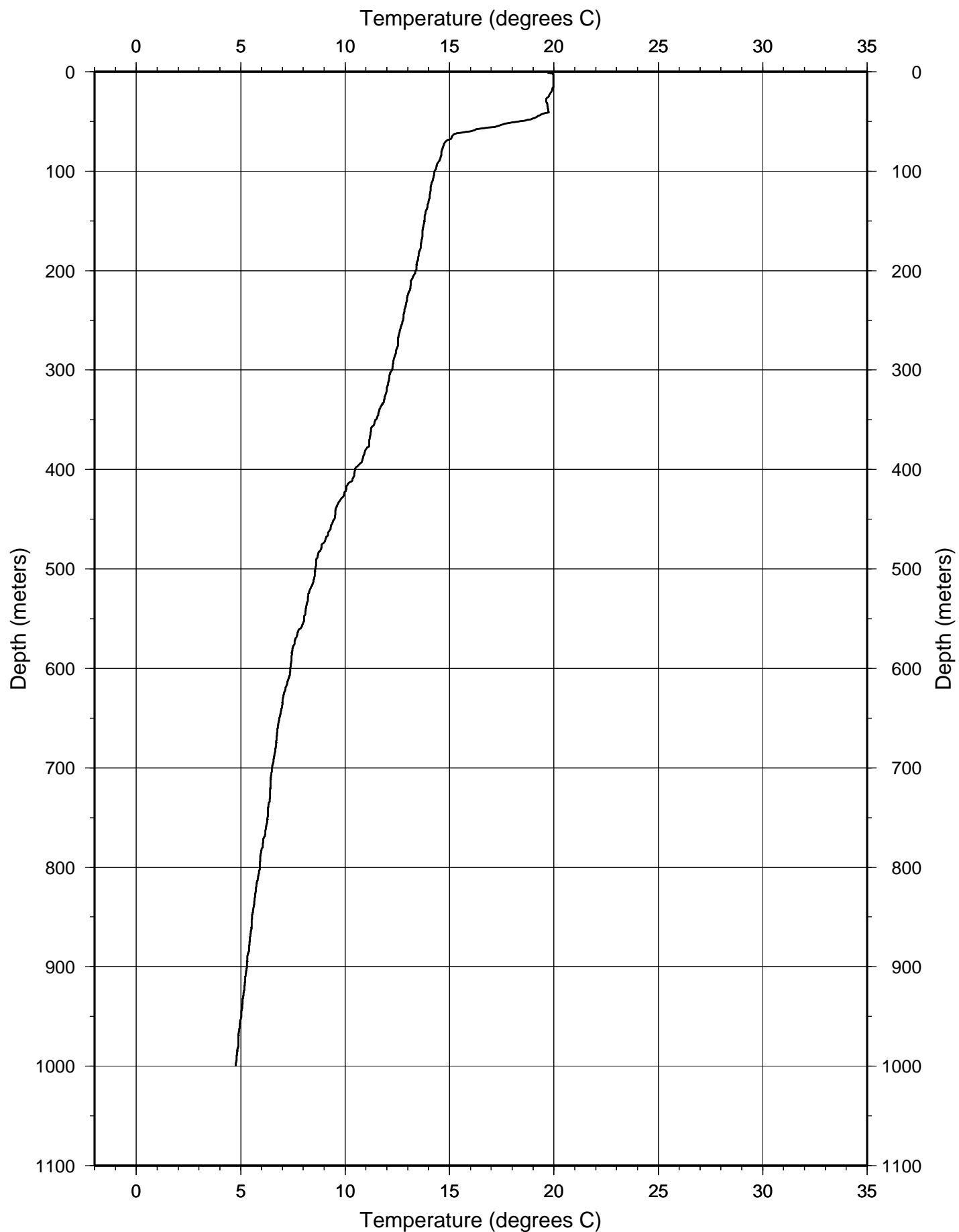
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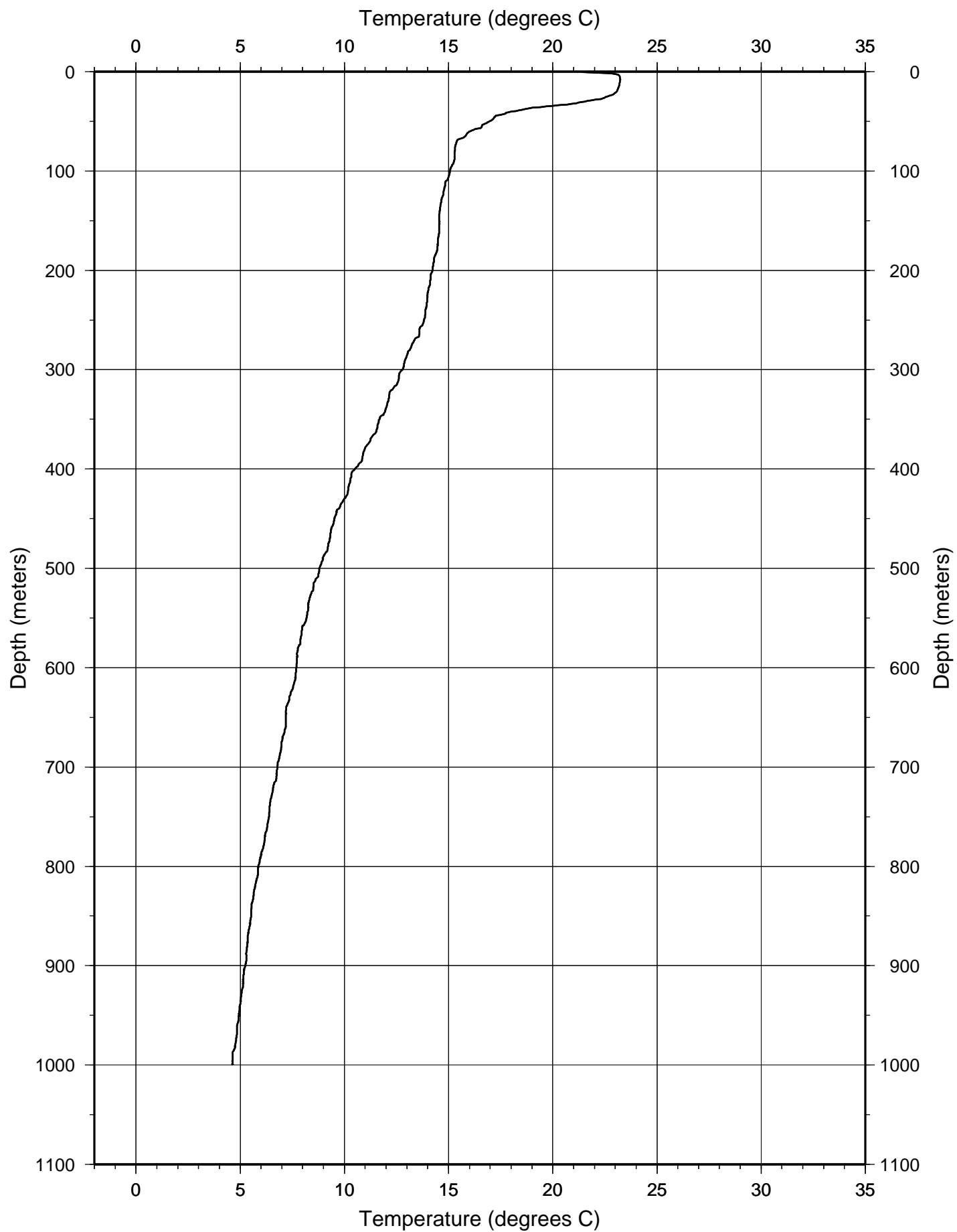
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DANA02RR XBT tf\_00051.edf

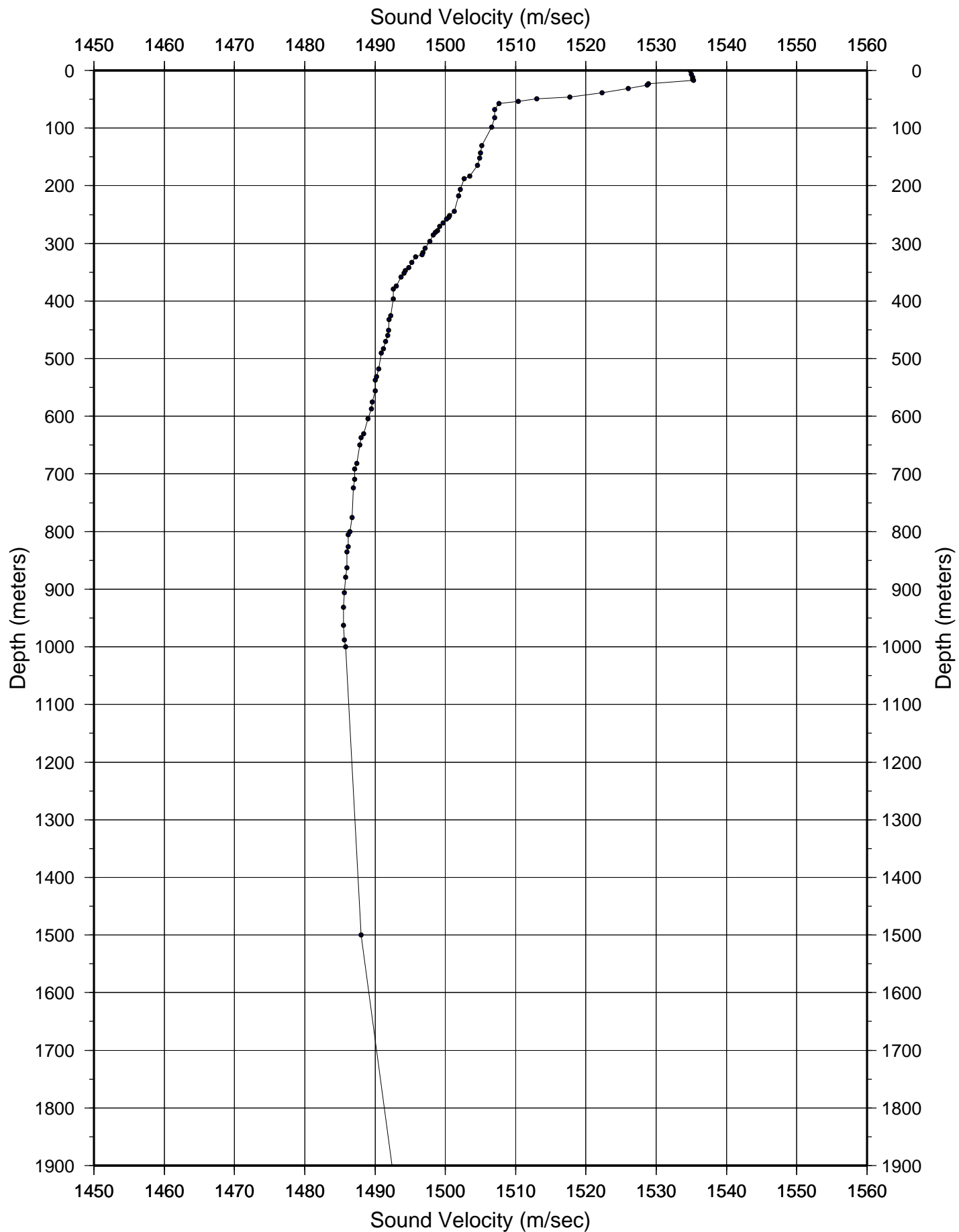


DANA02RR XBT tf\_00054.edf

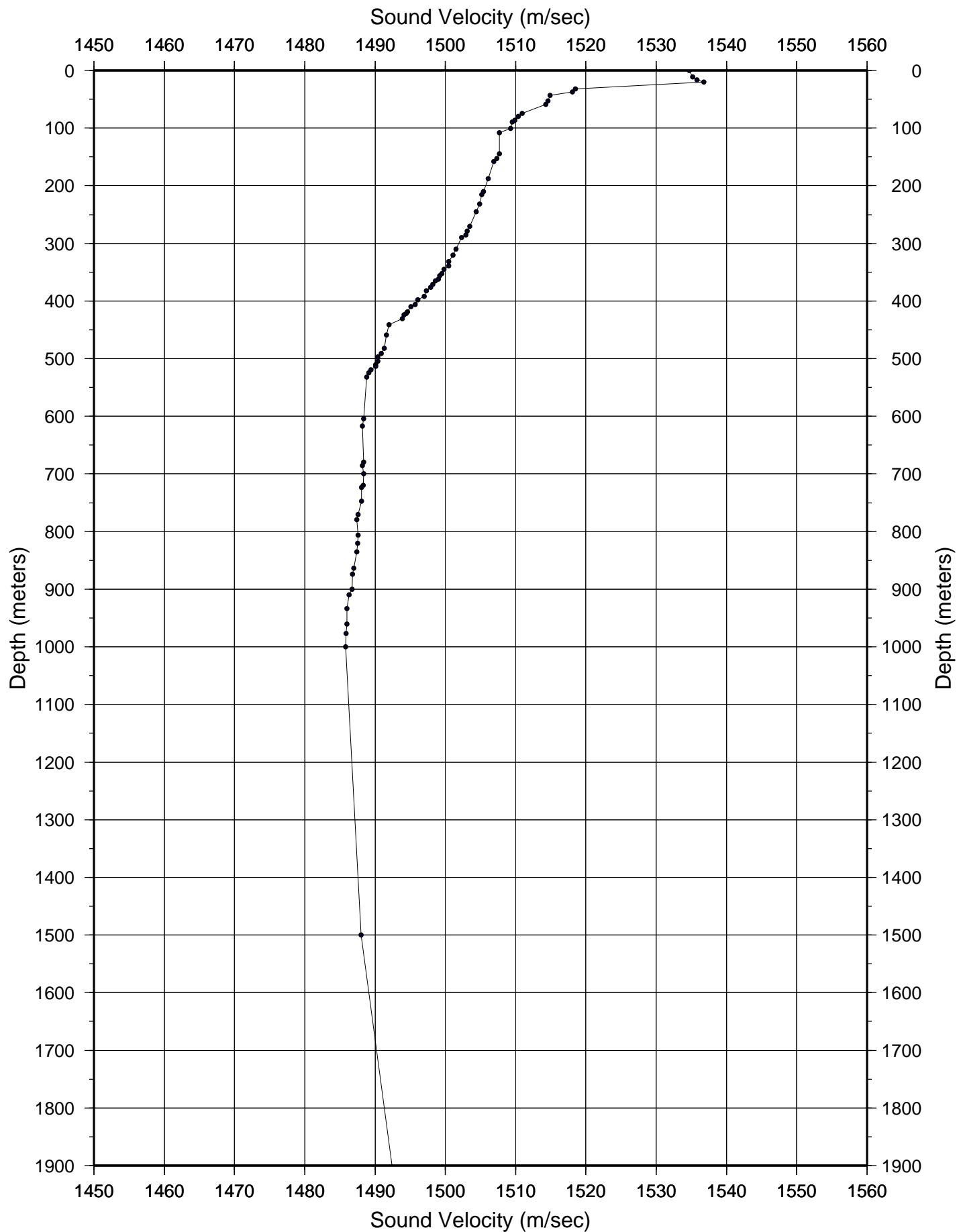




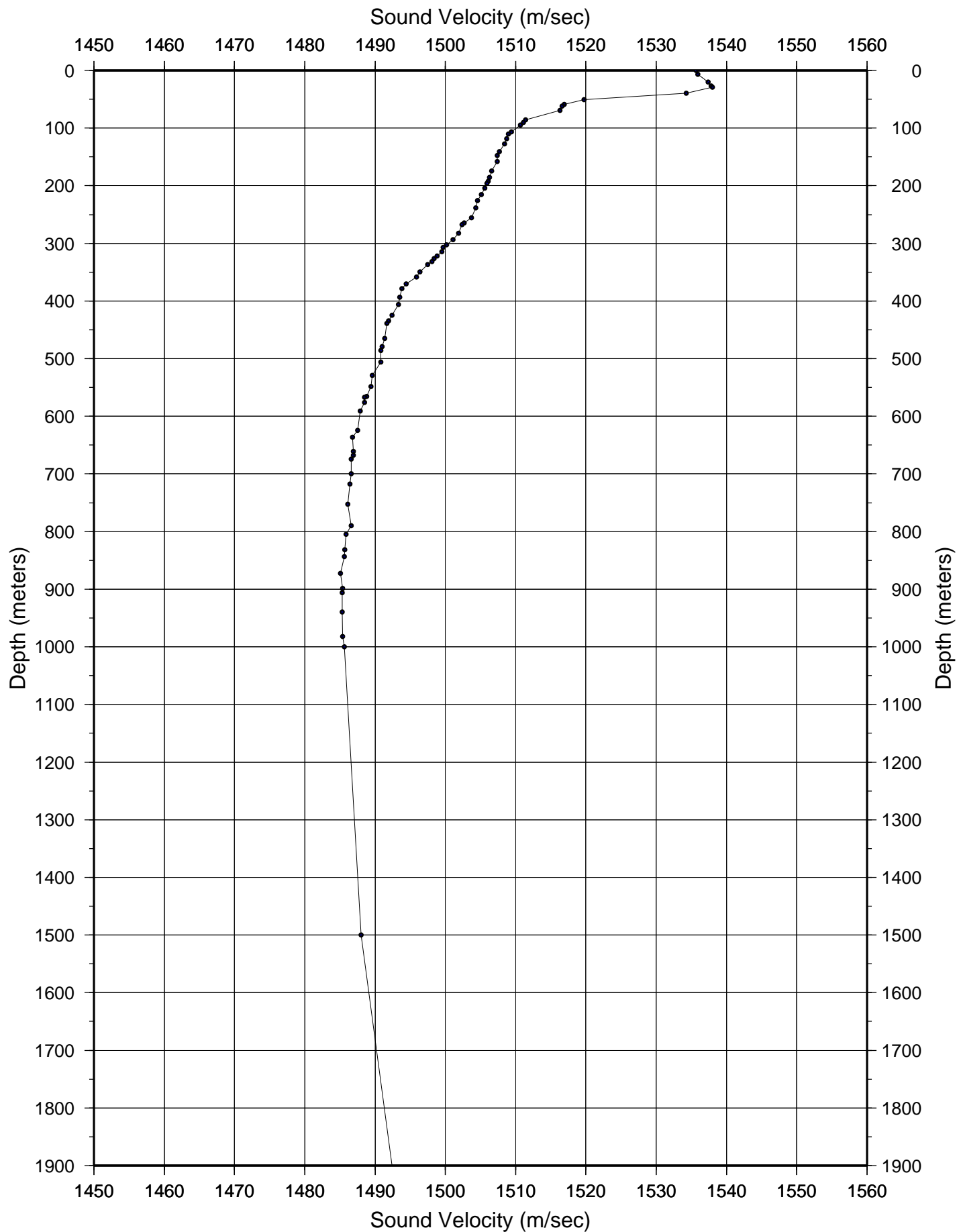
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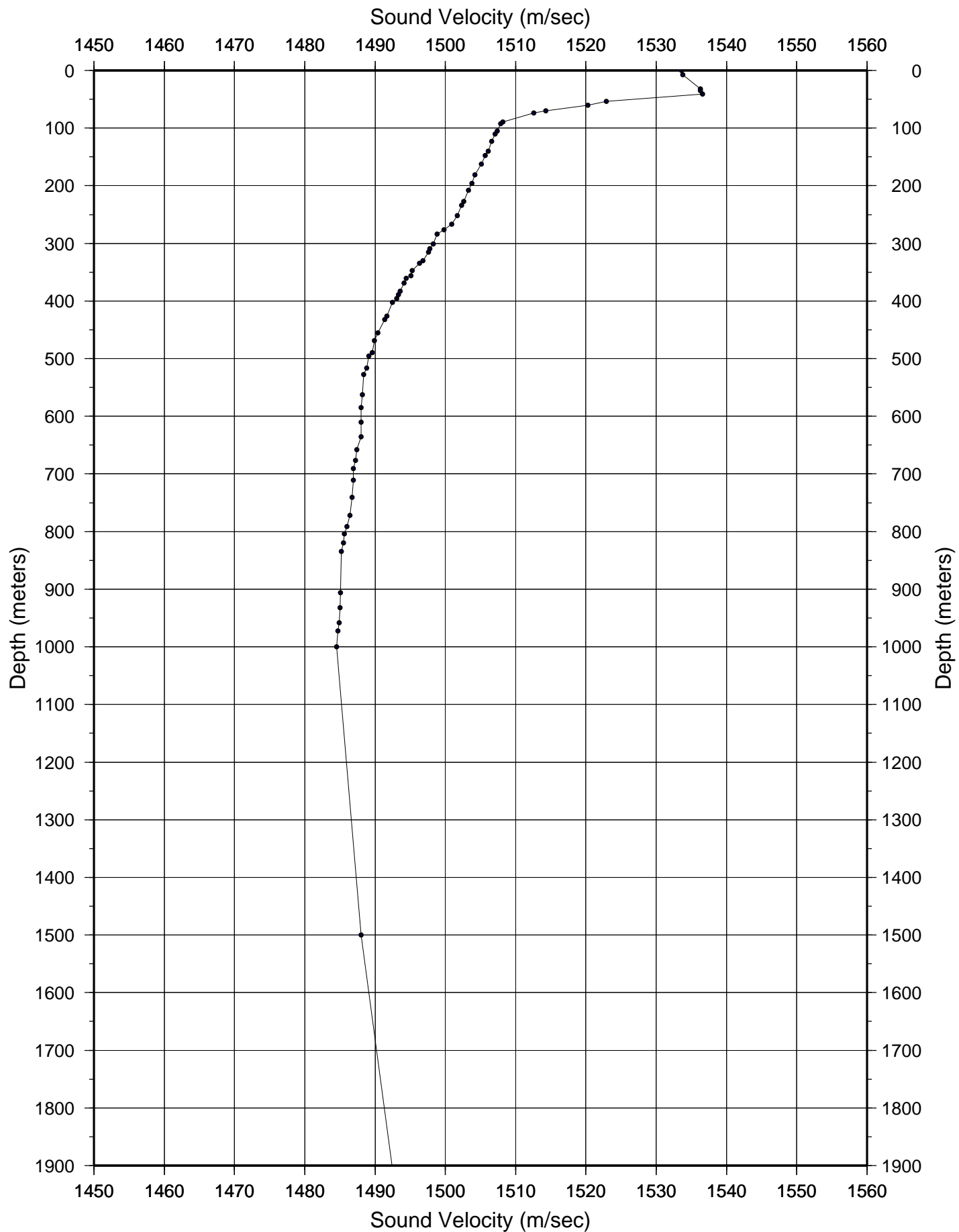
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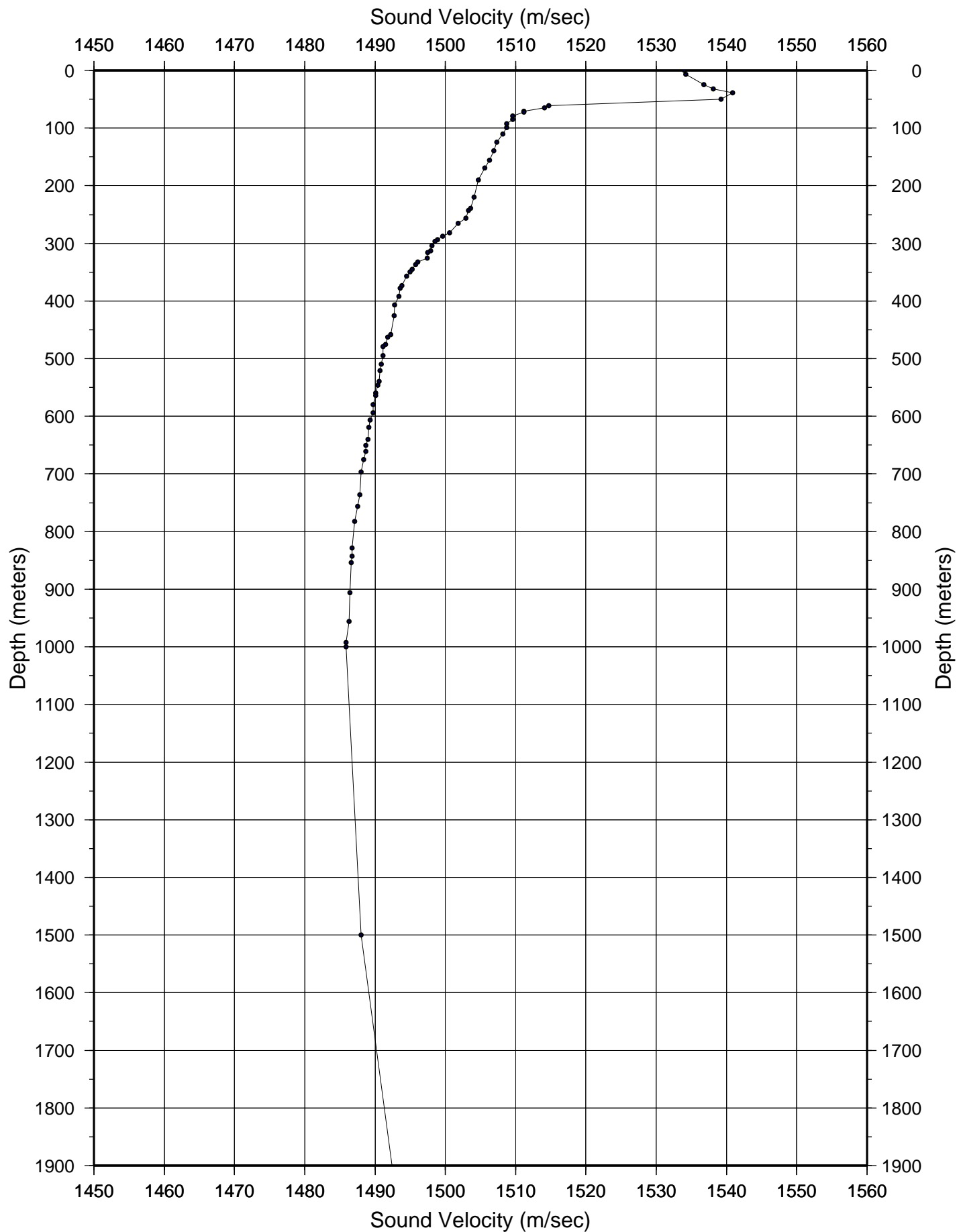
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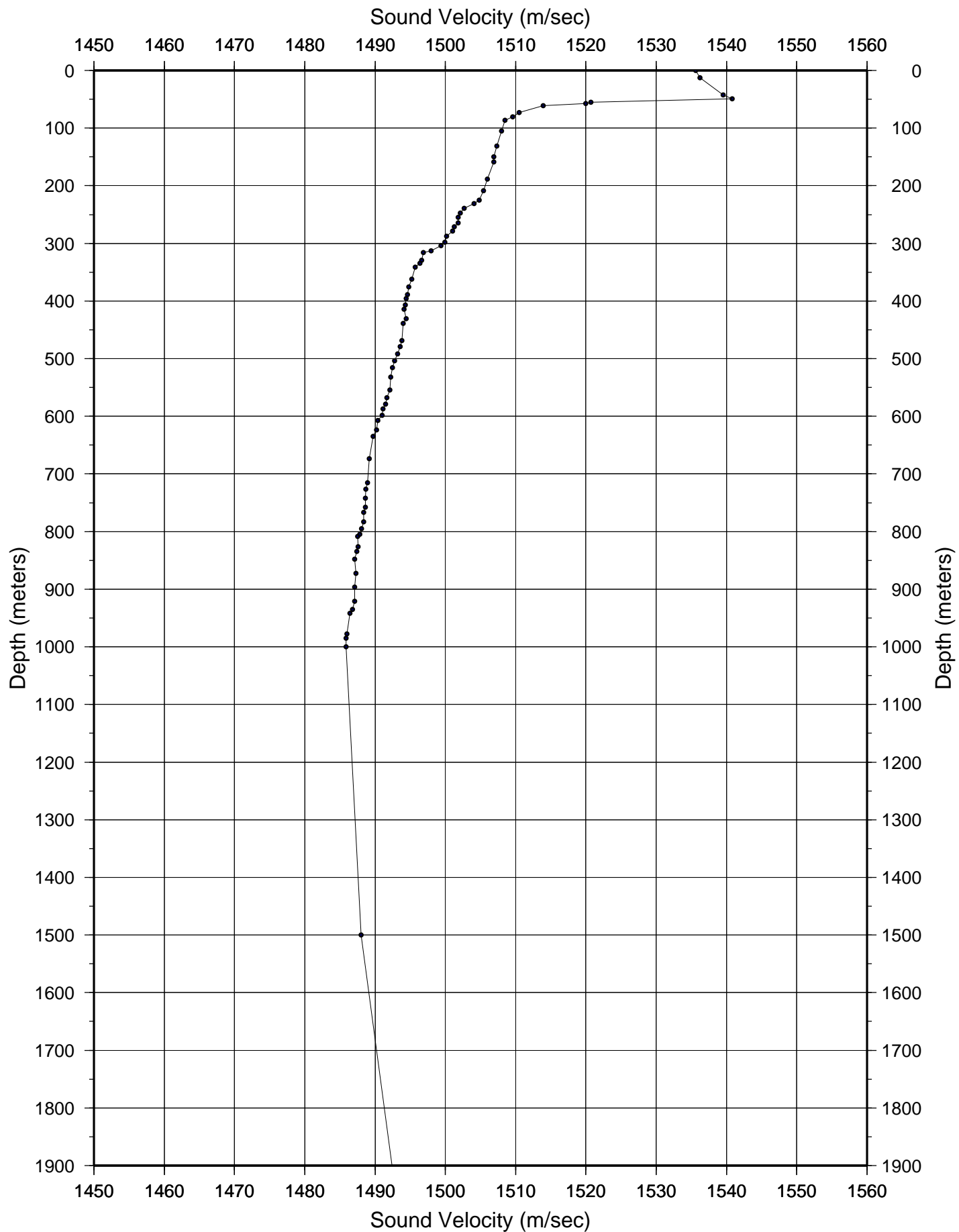
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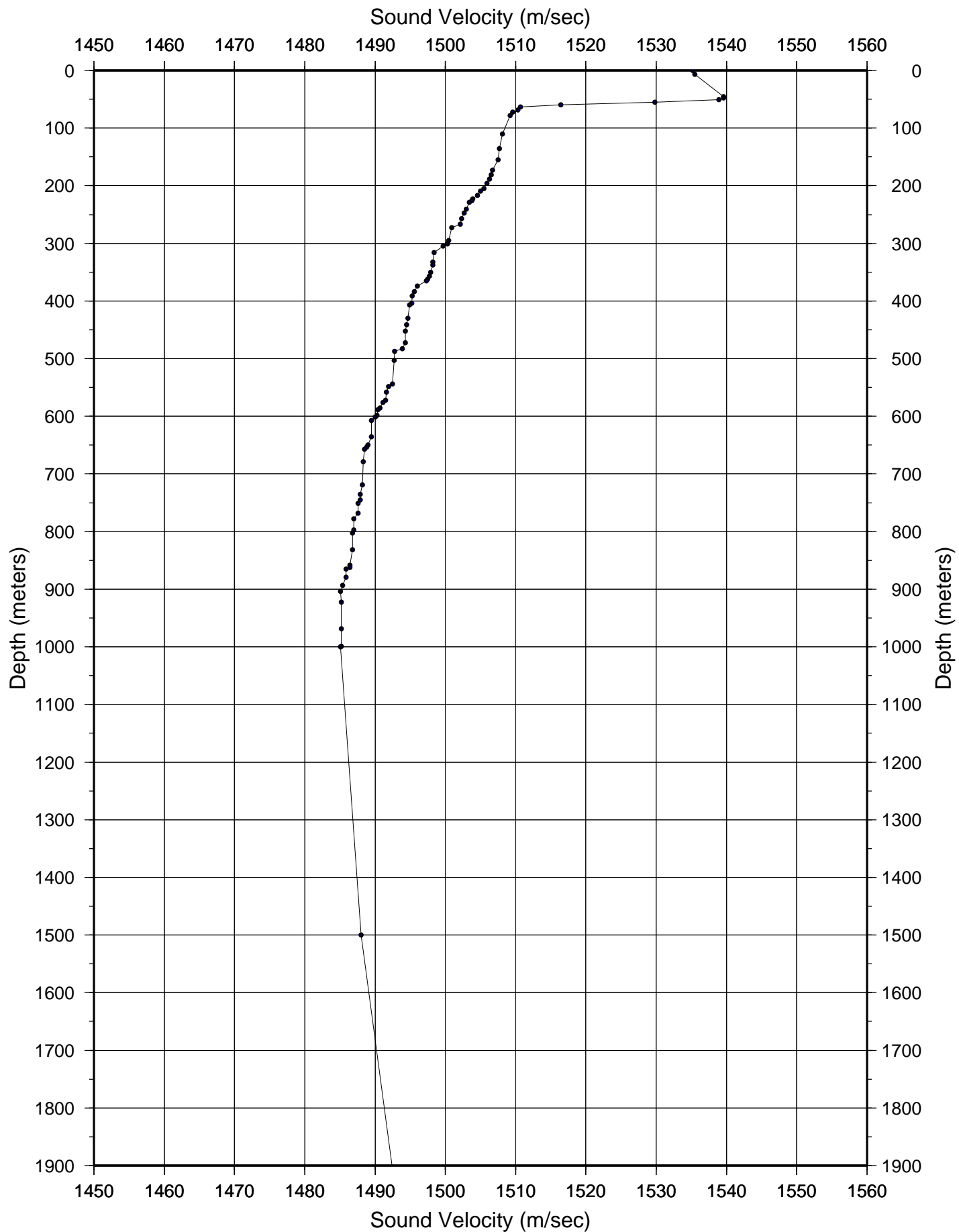
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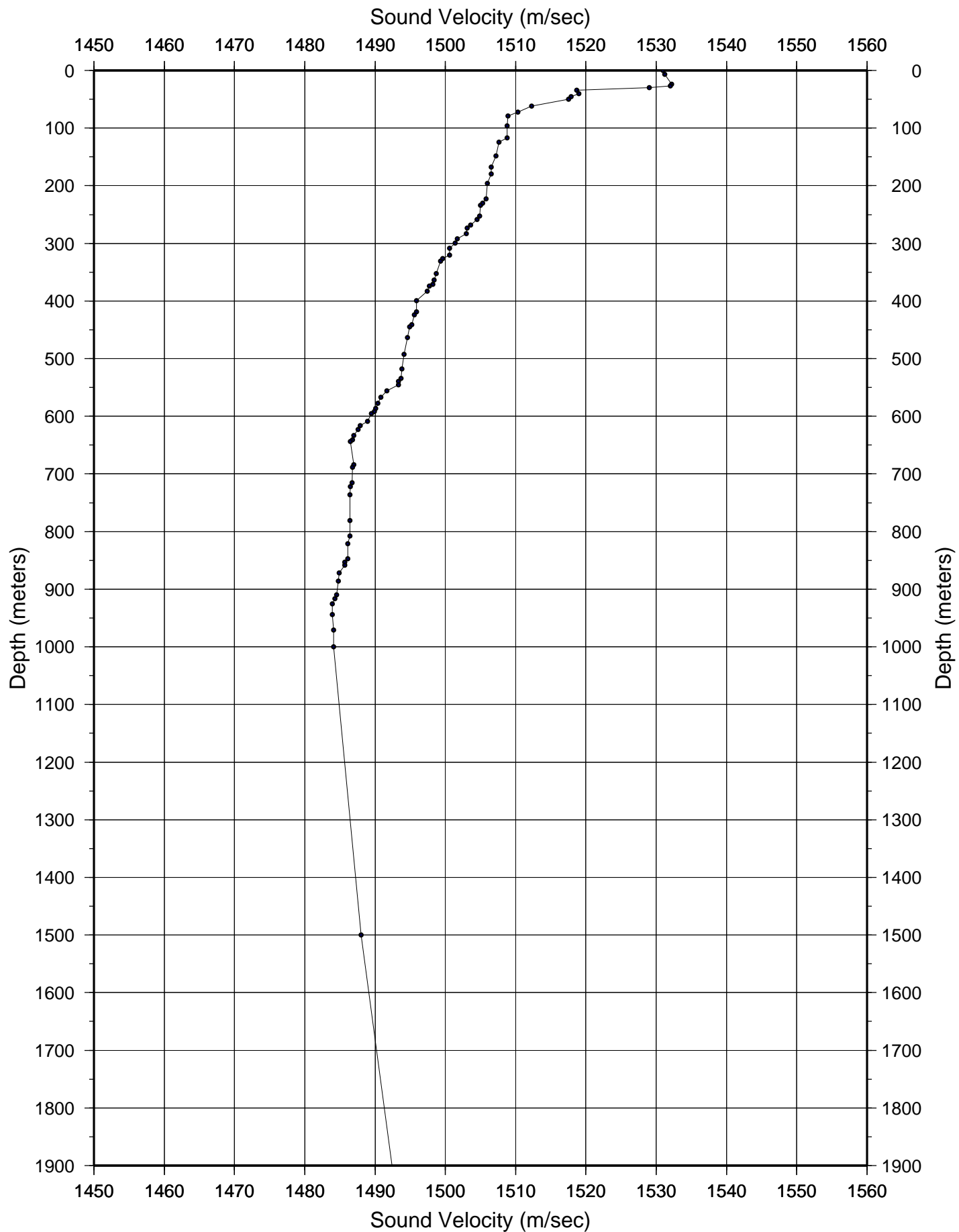
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DANA02RR.svp.07/tf\_00036.edf

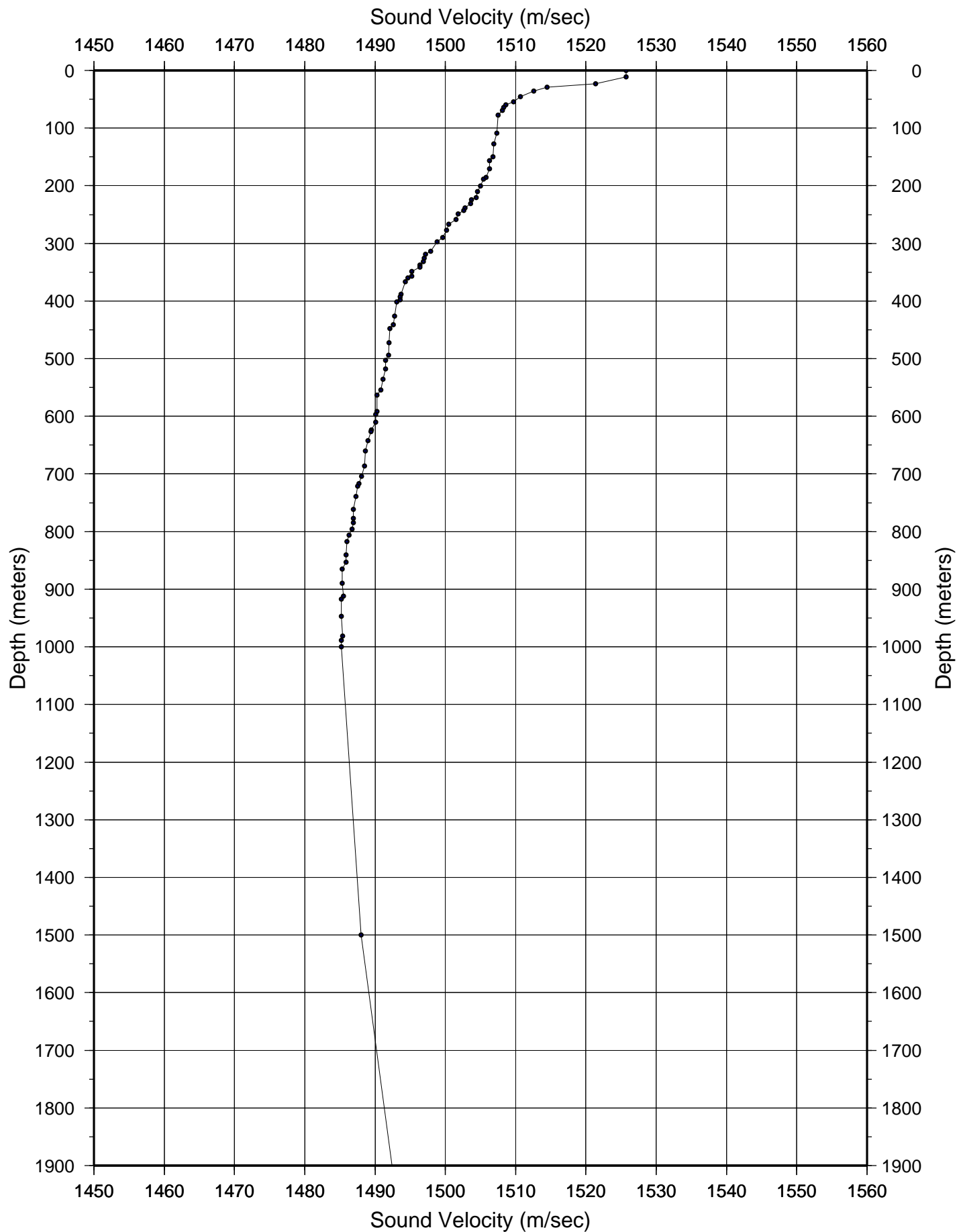


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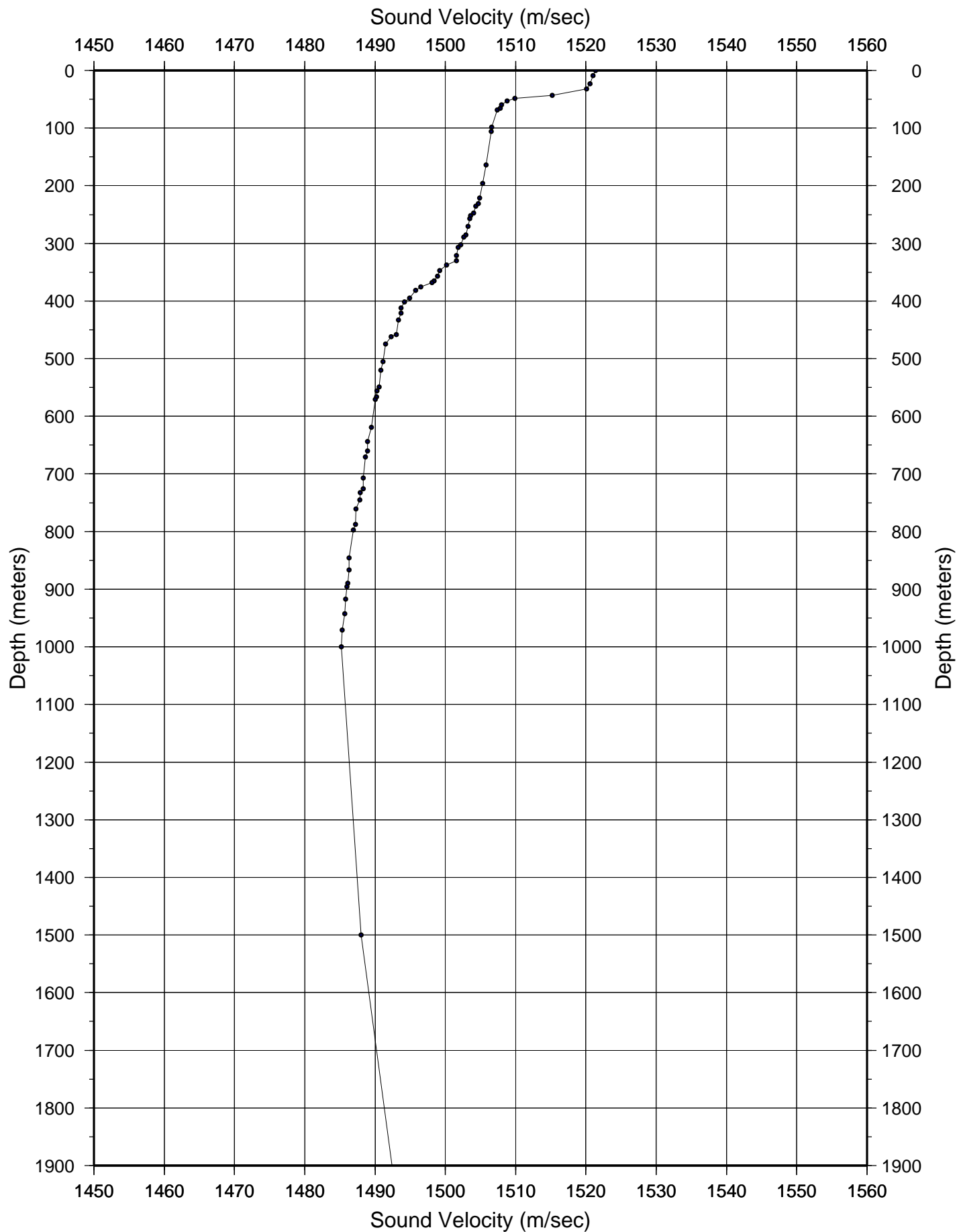




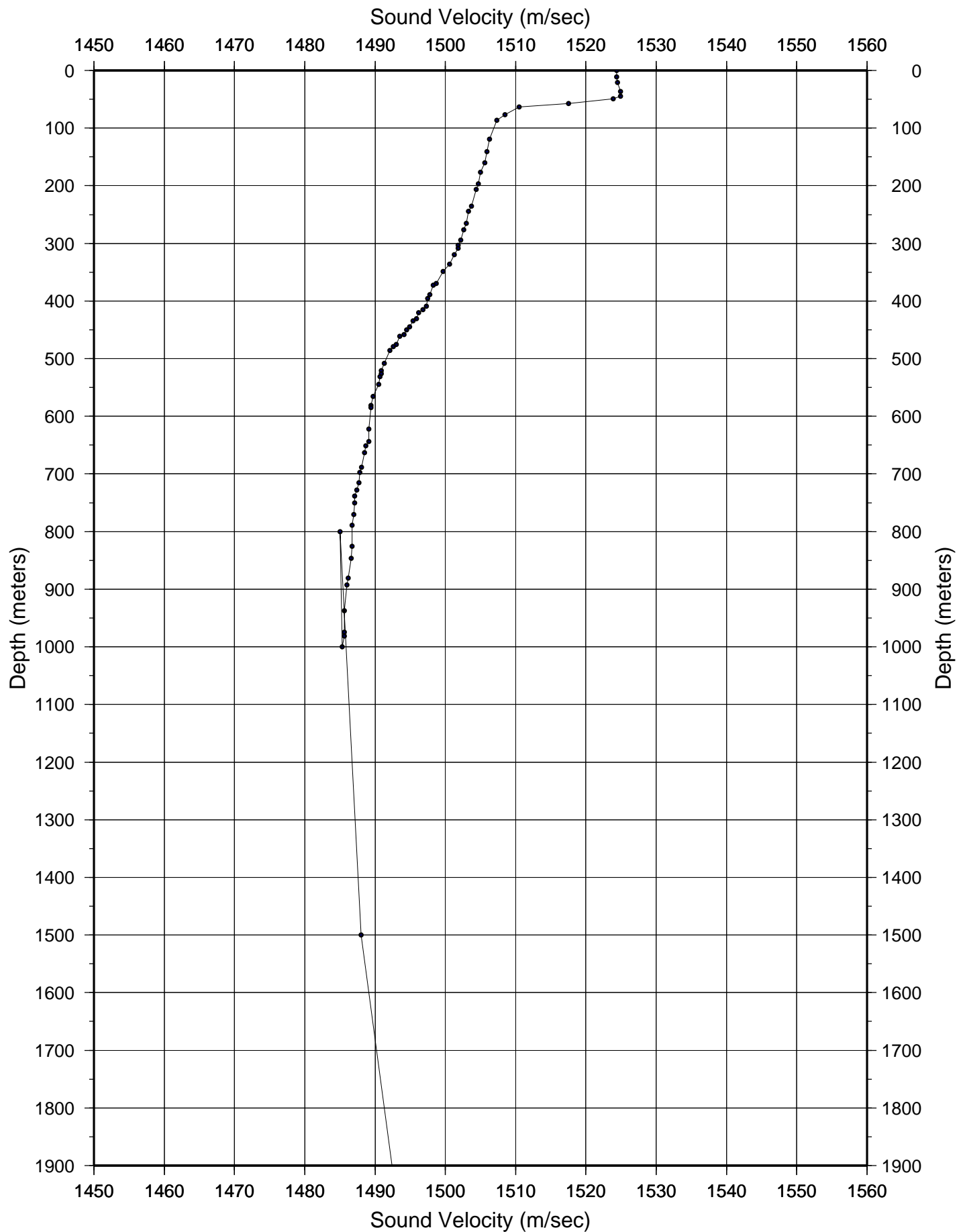
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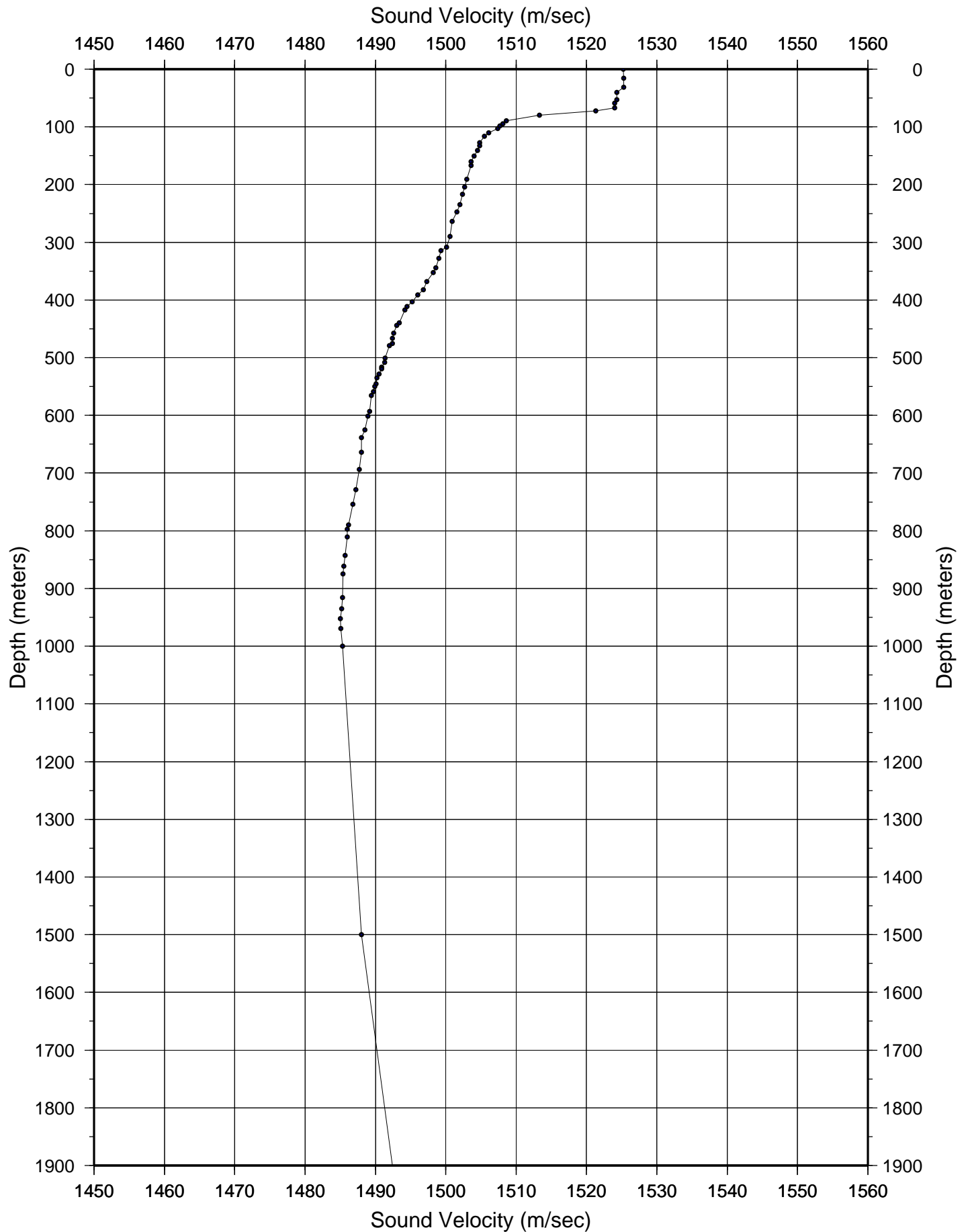
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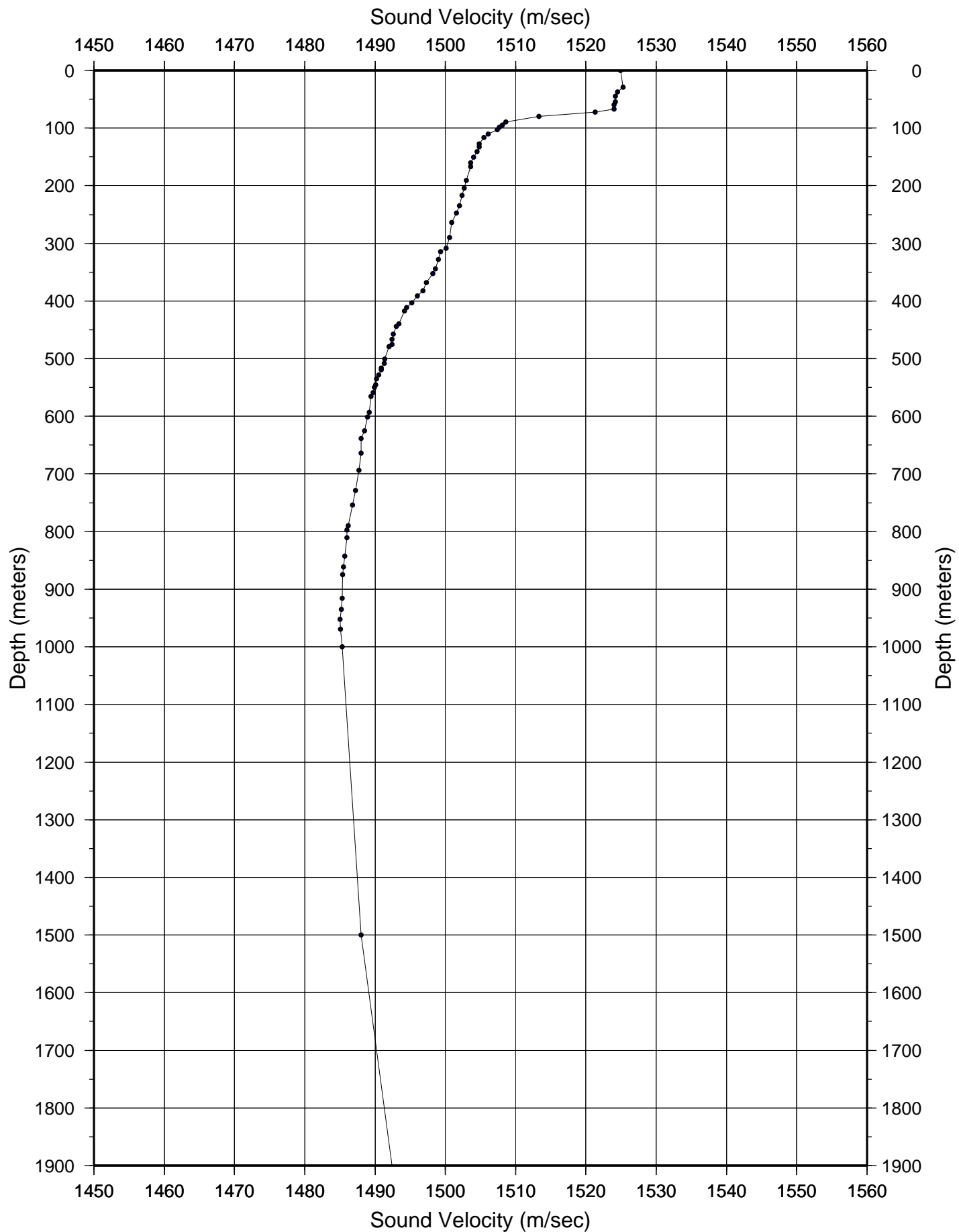
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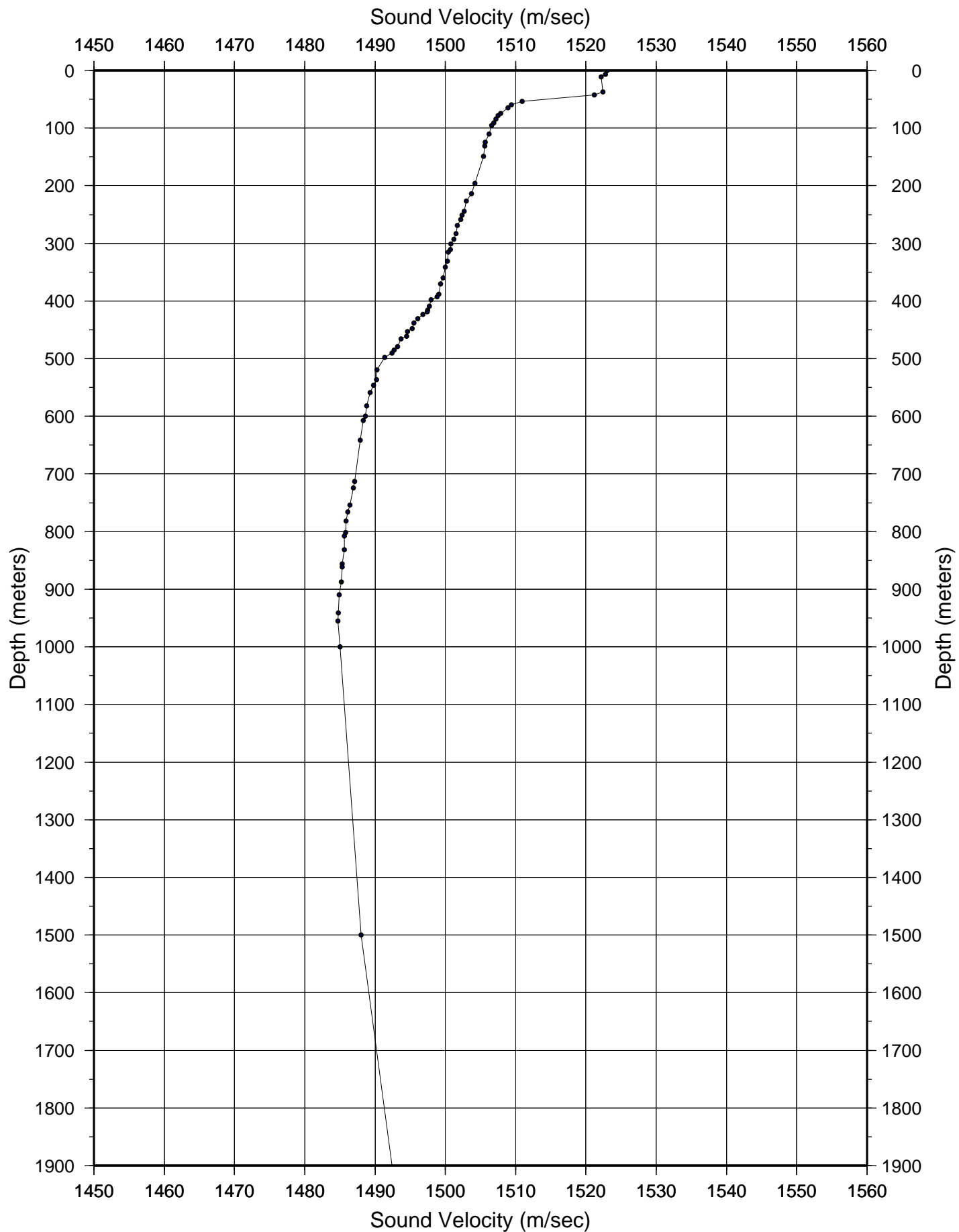
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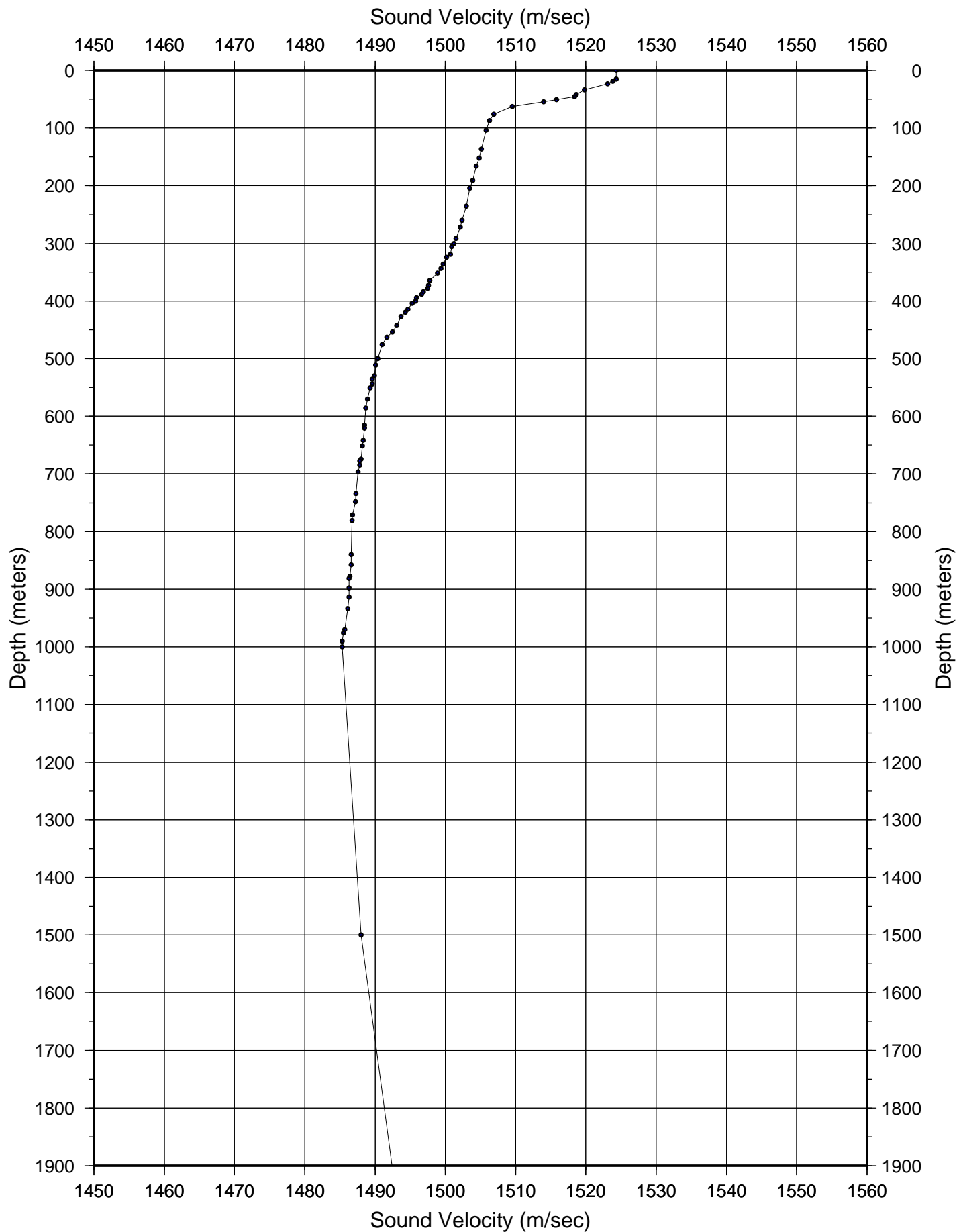
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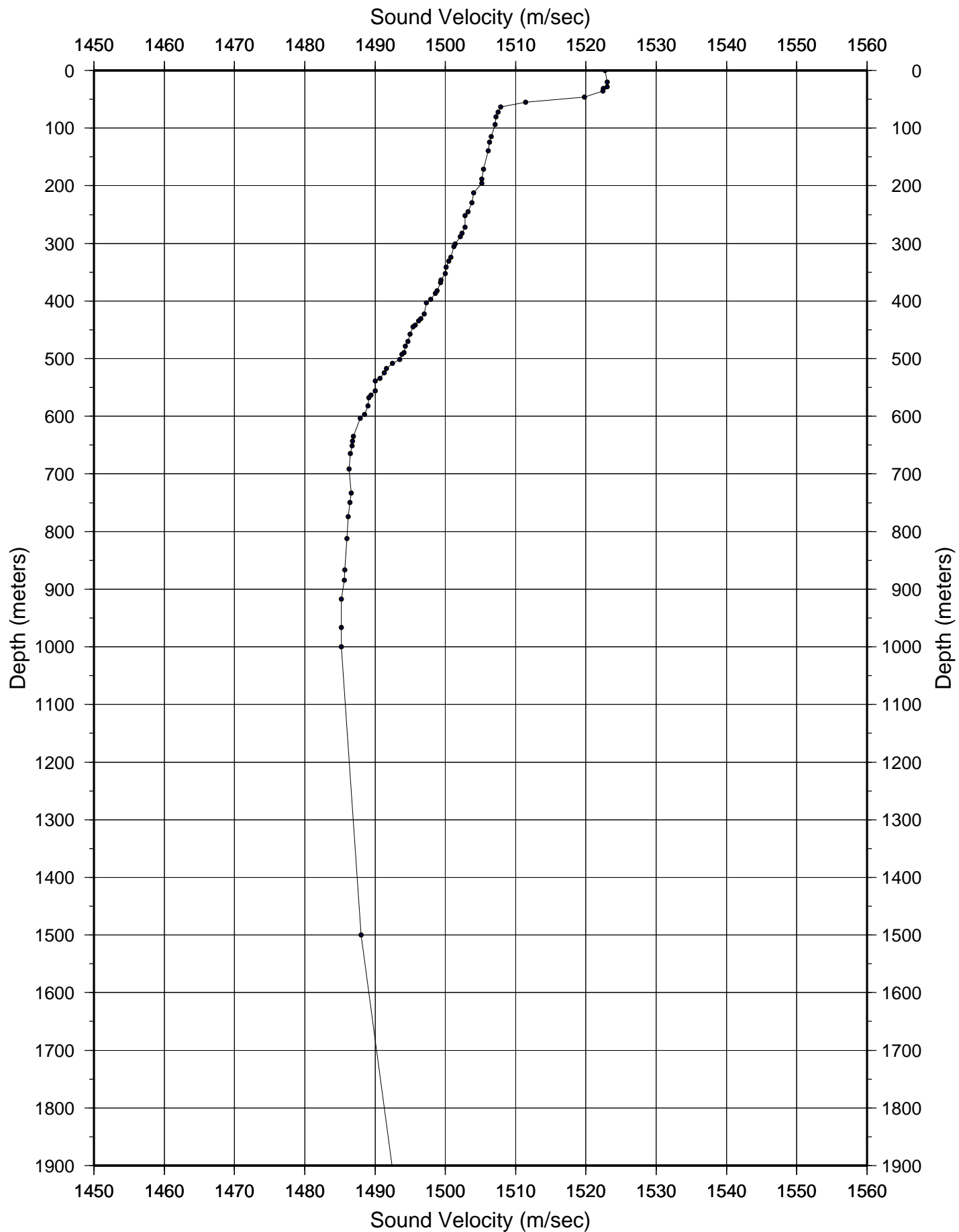
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DANA02RR.svp.15/tf\_00046.edf

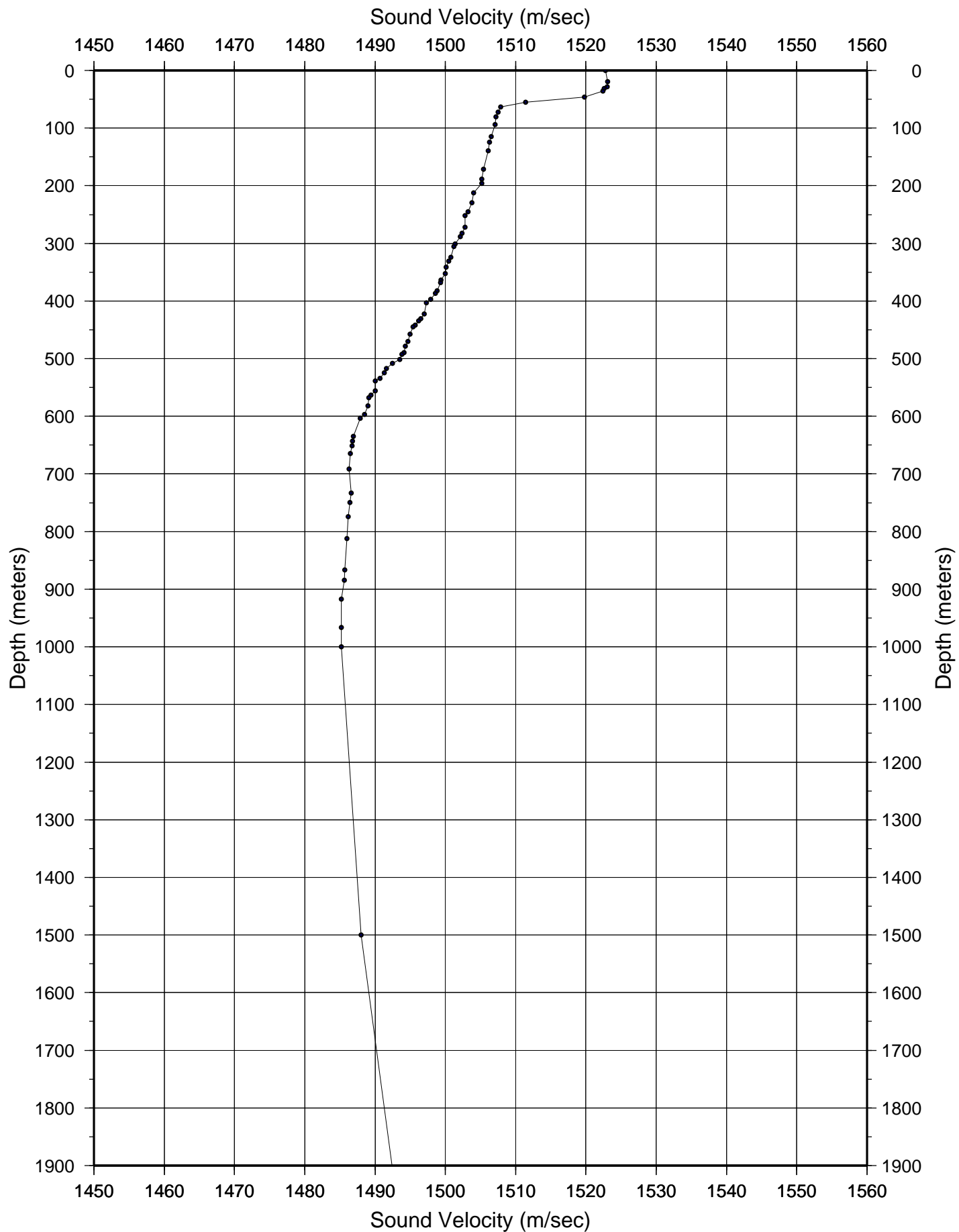


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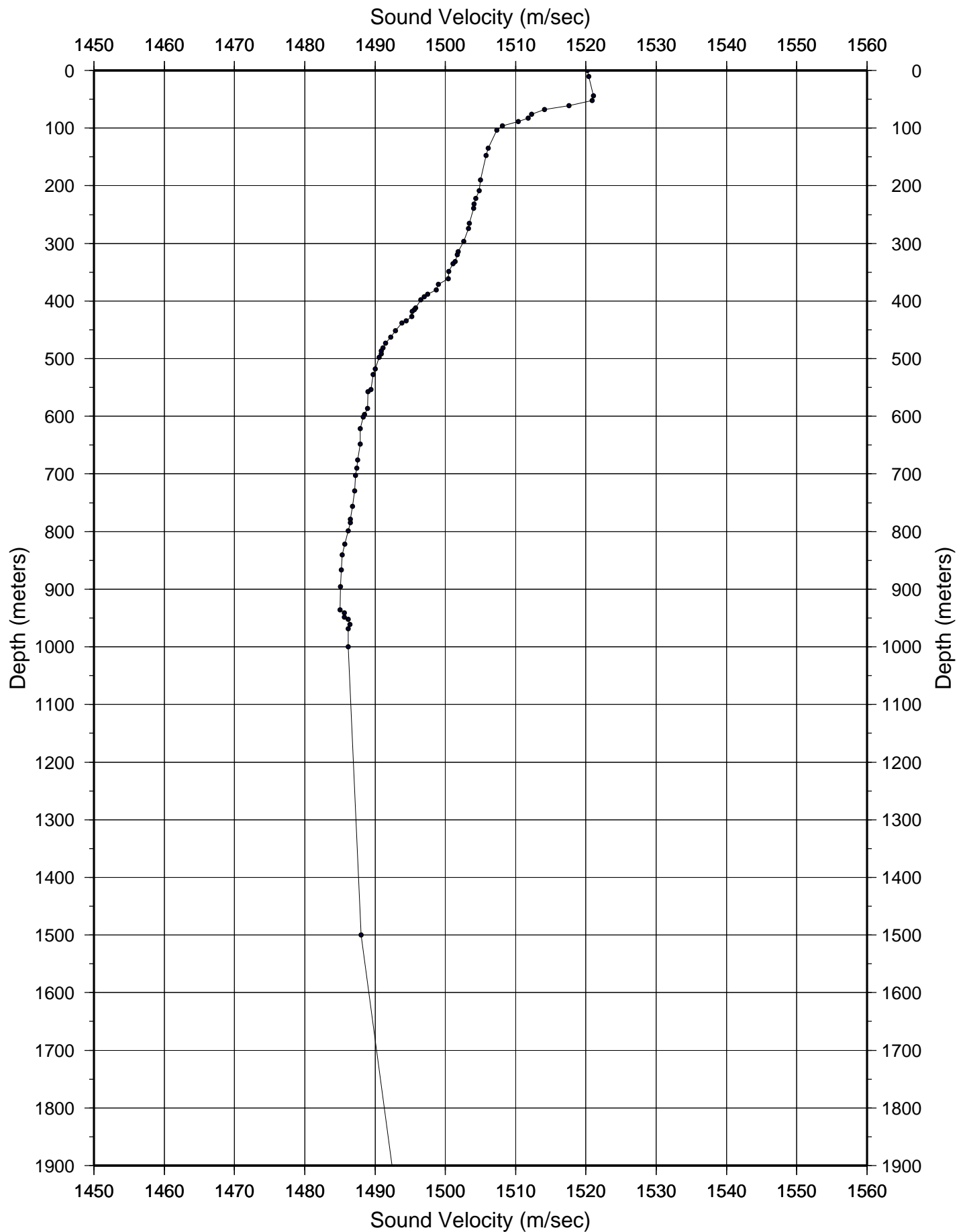




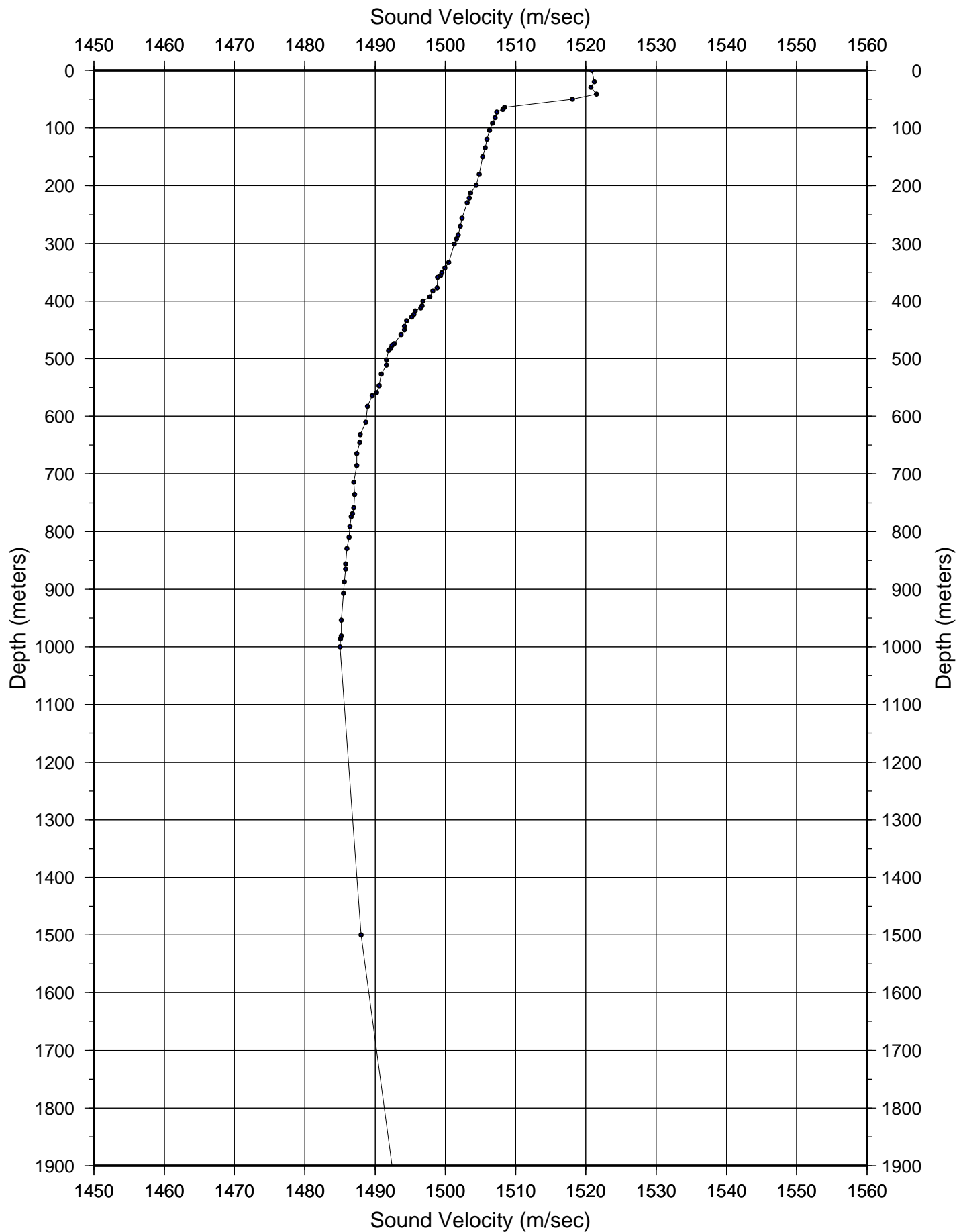
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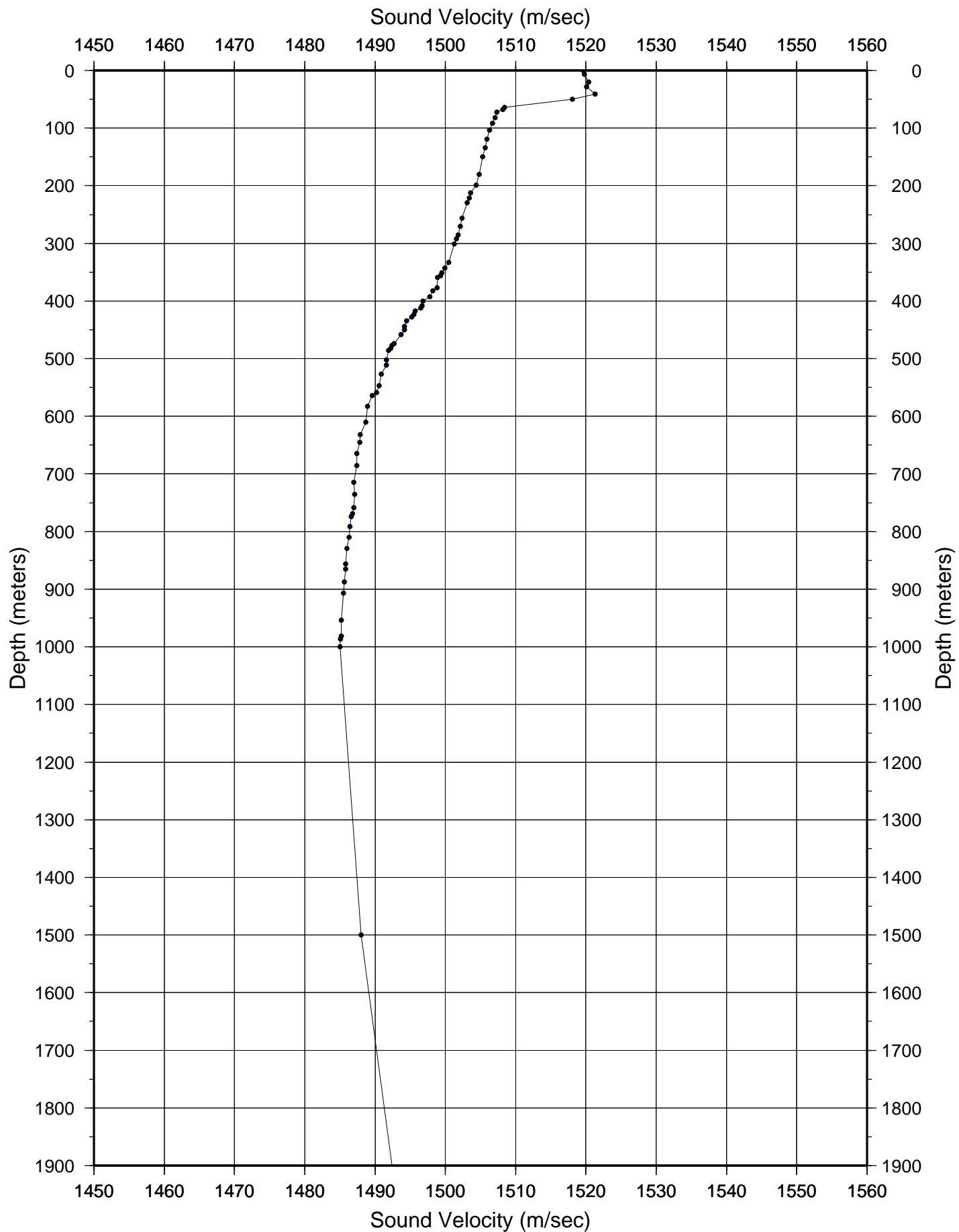
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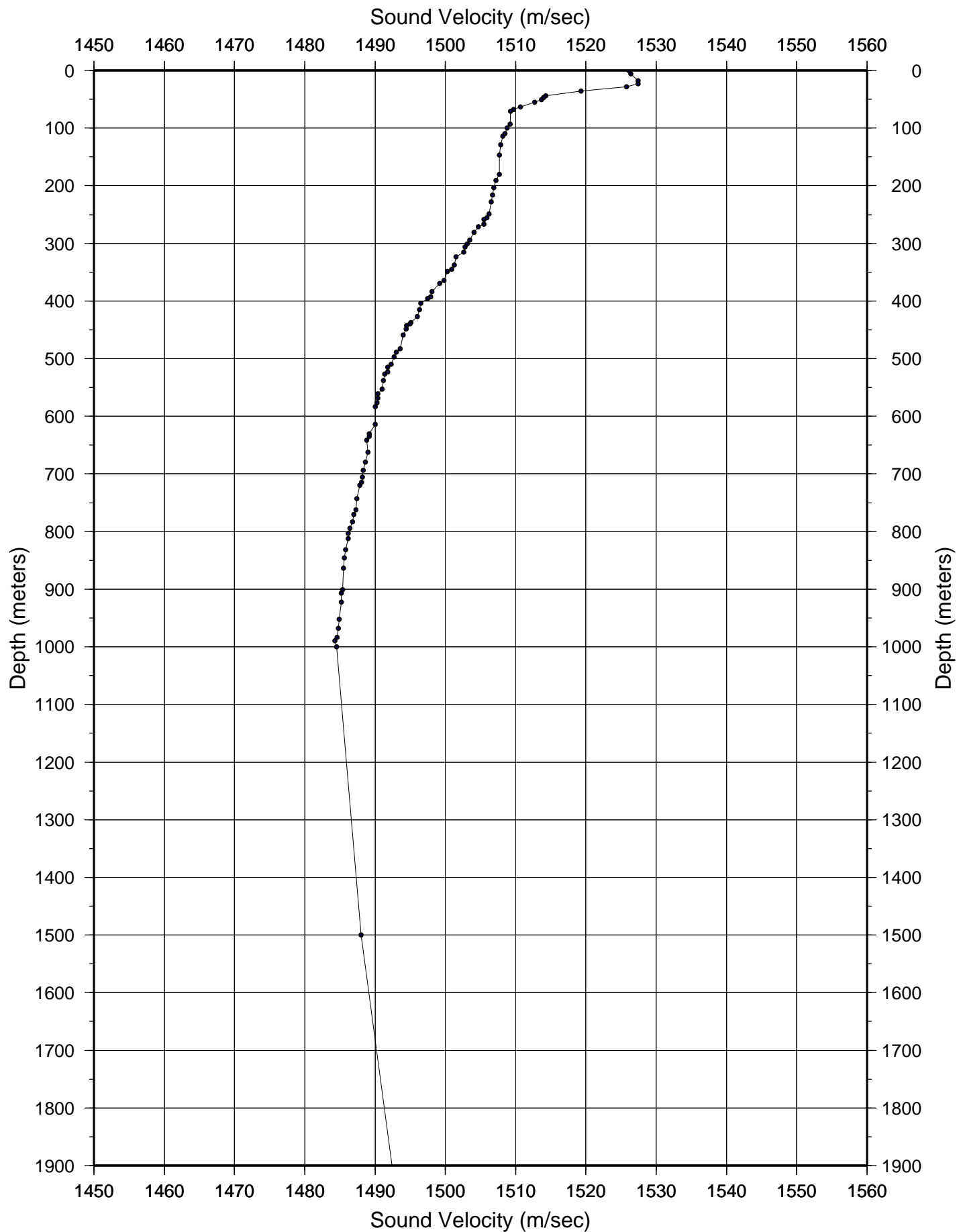
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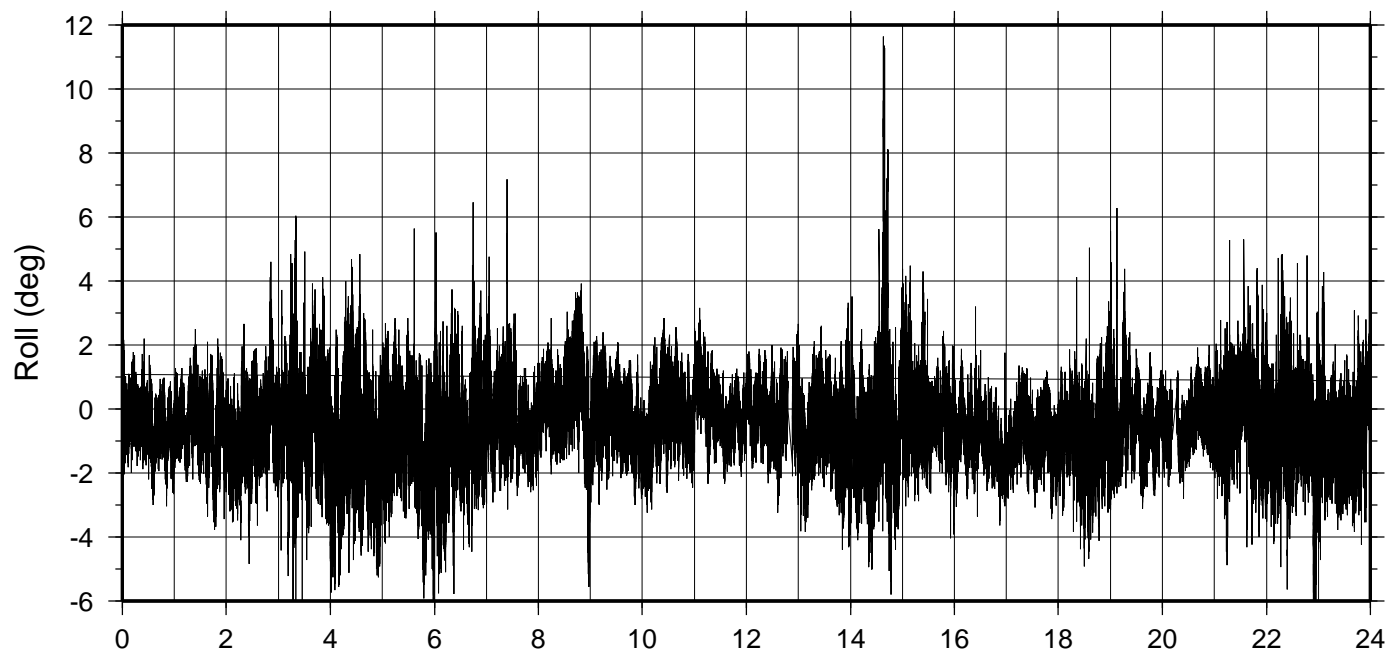
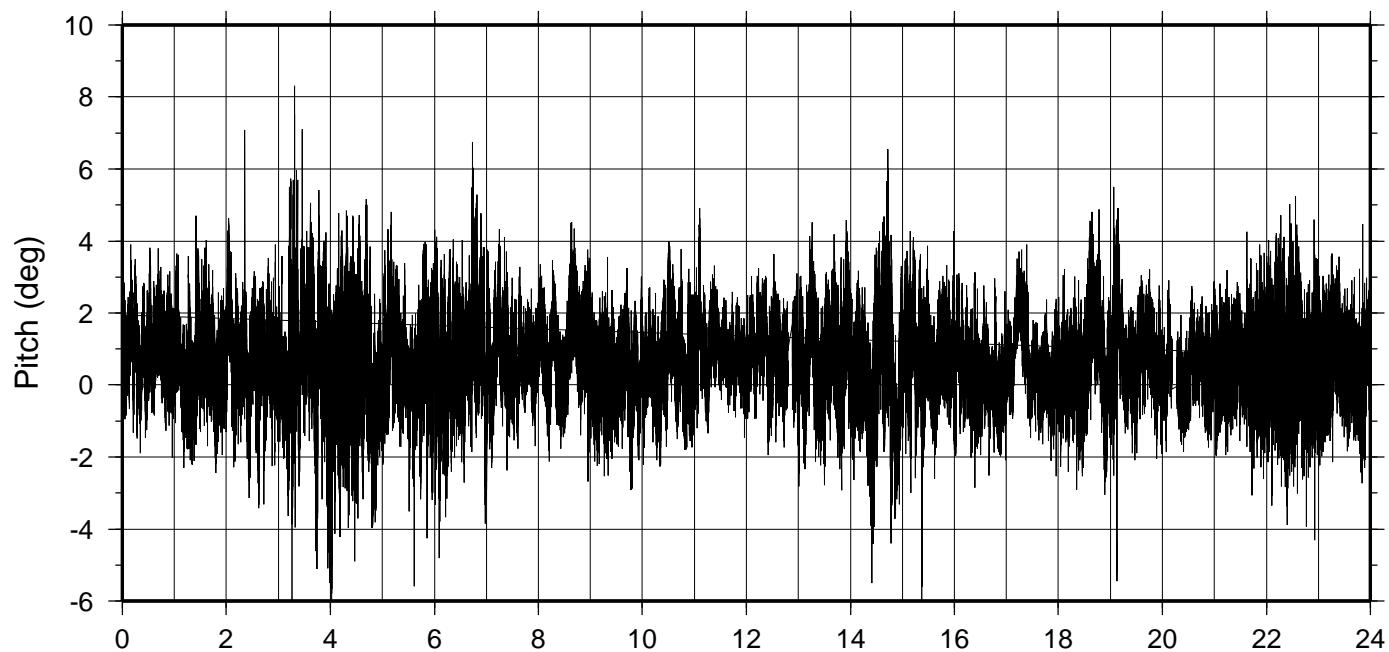
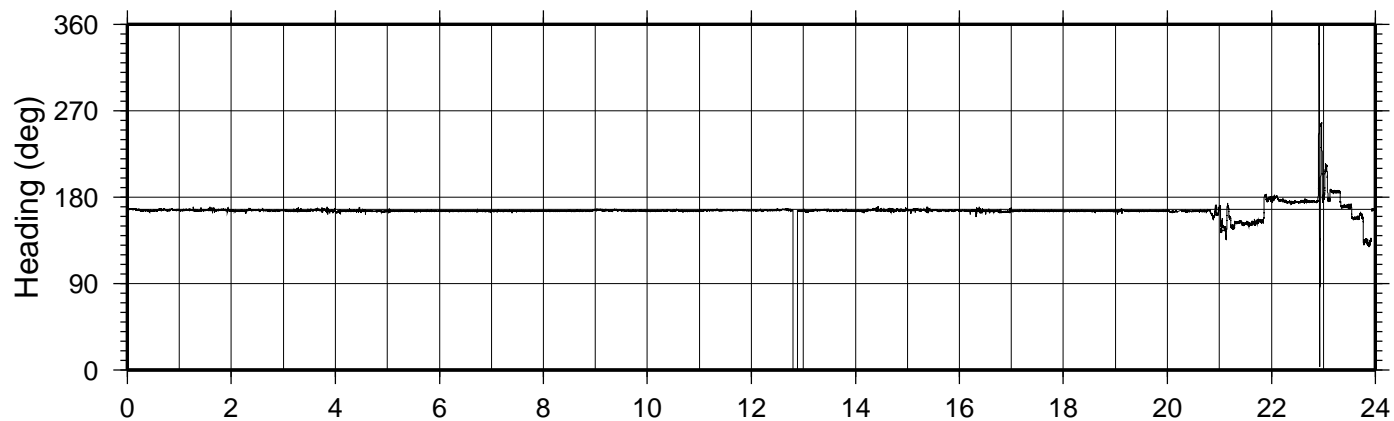
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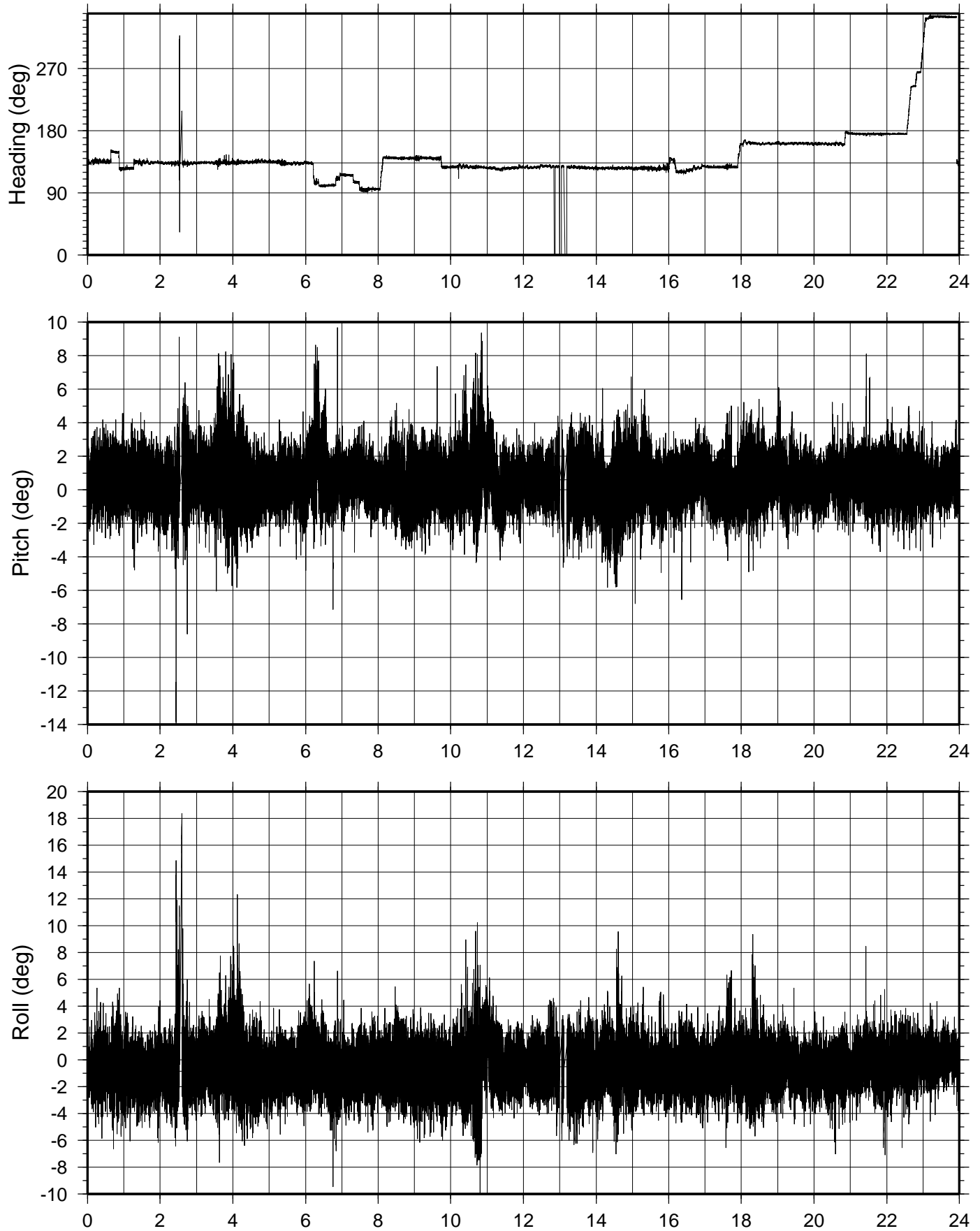
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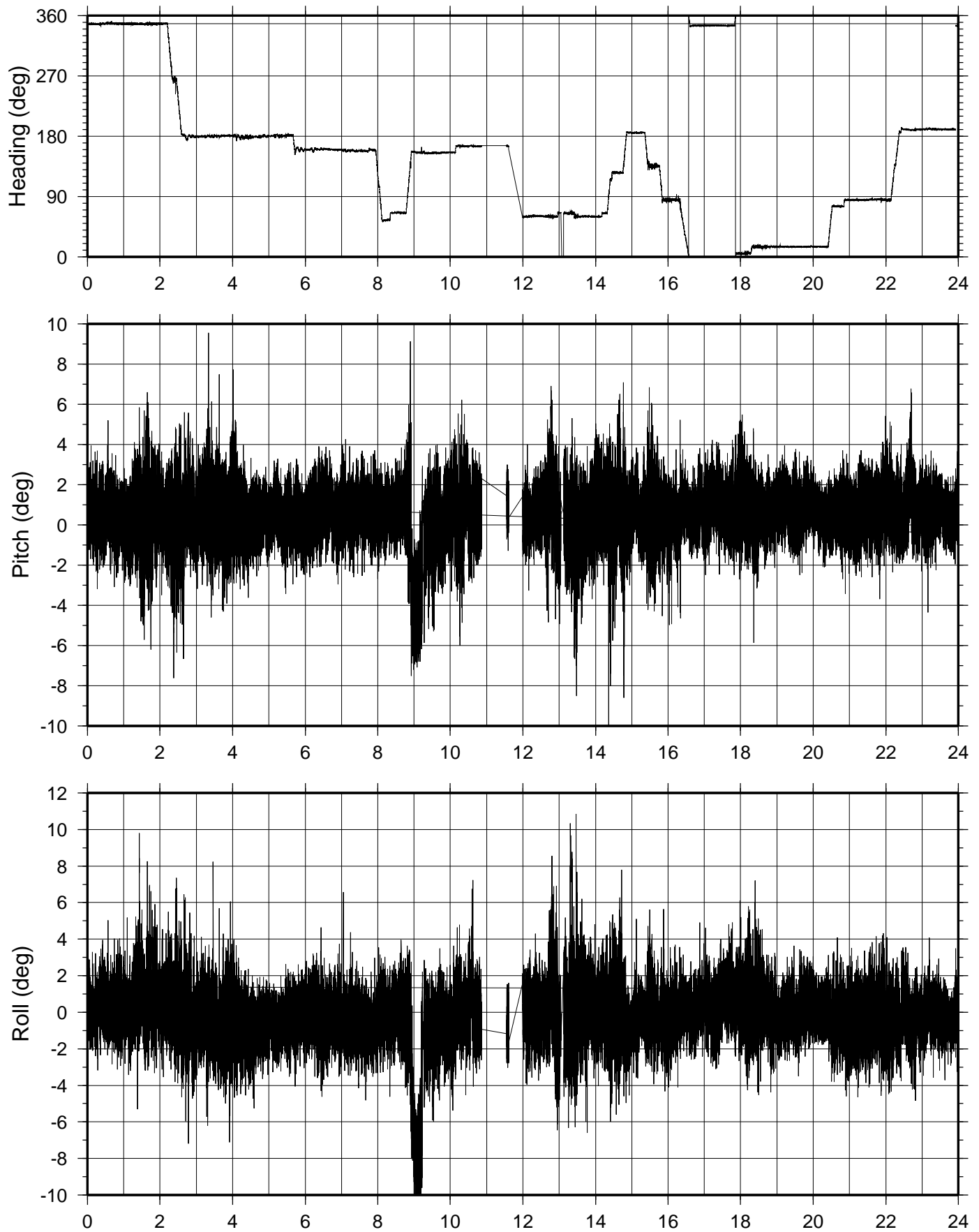
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct10



# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct11

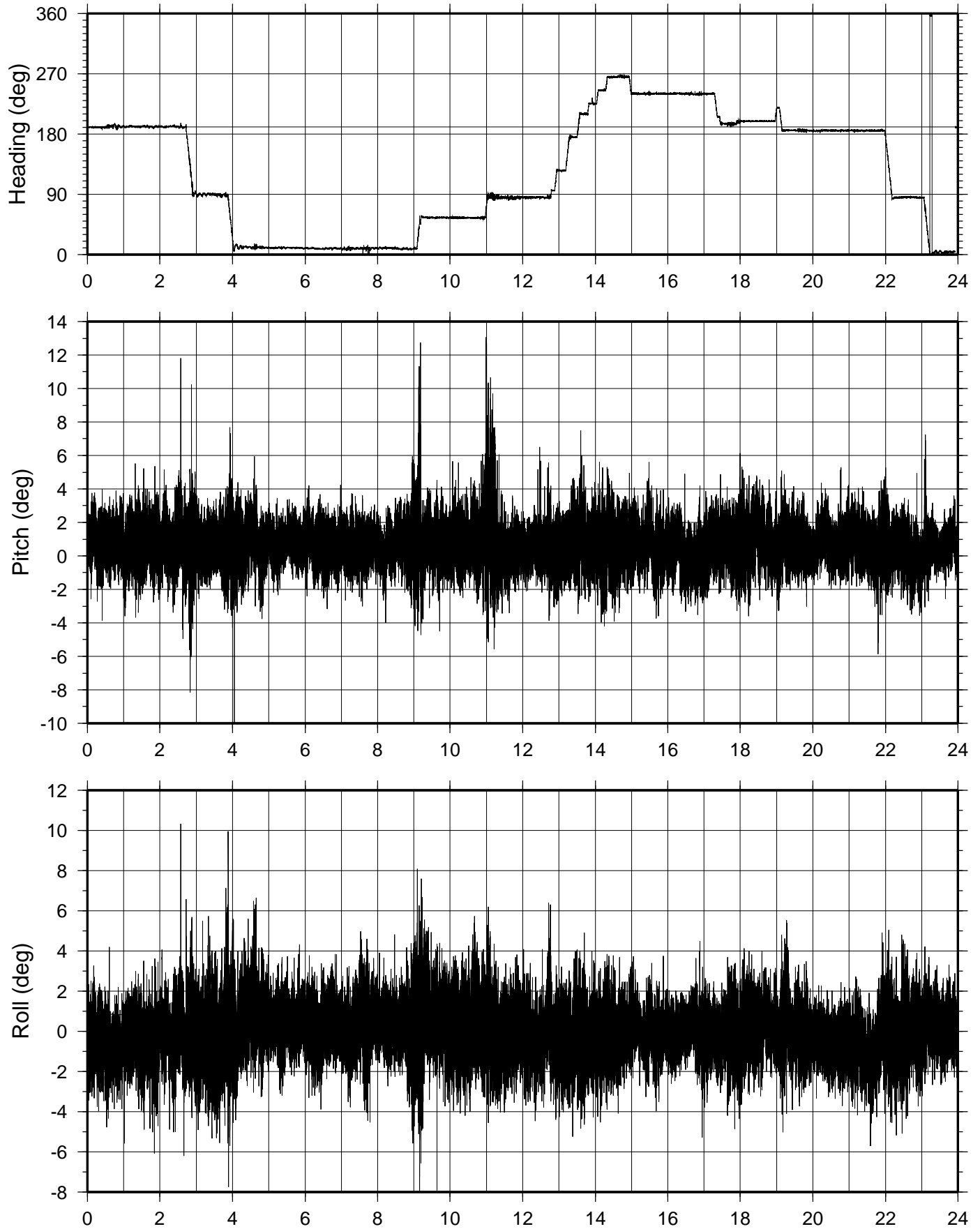


# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct12

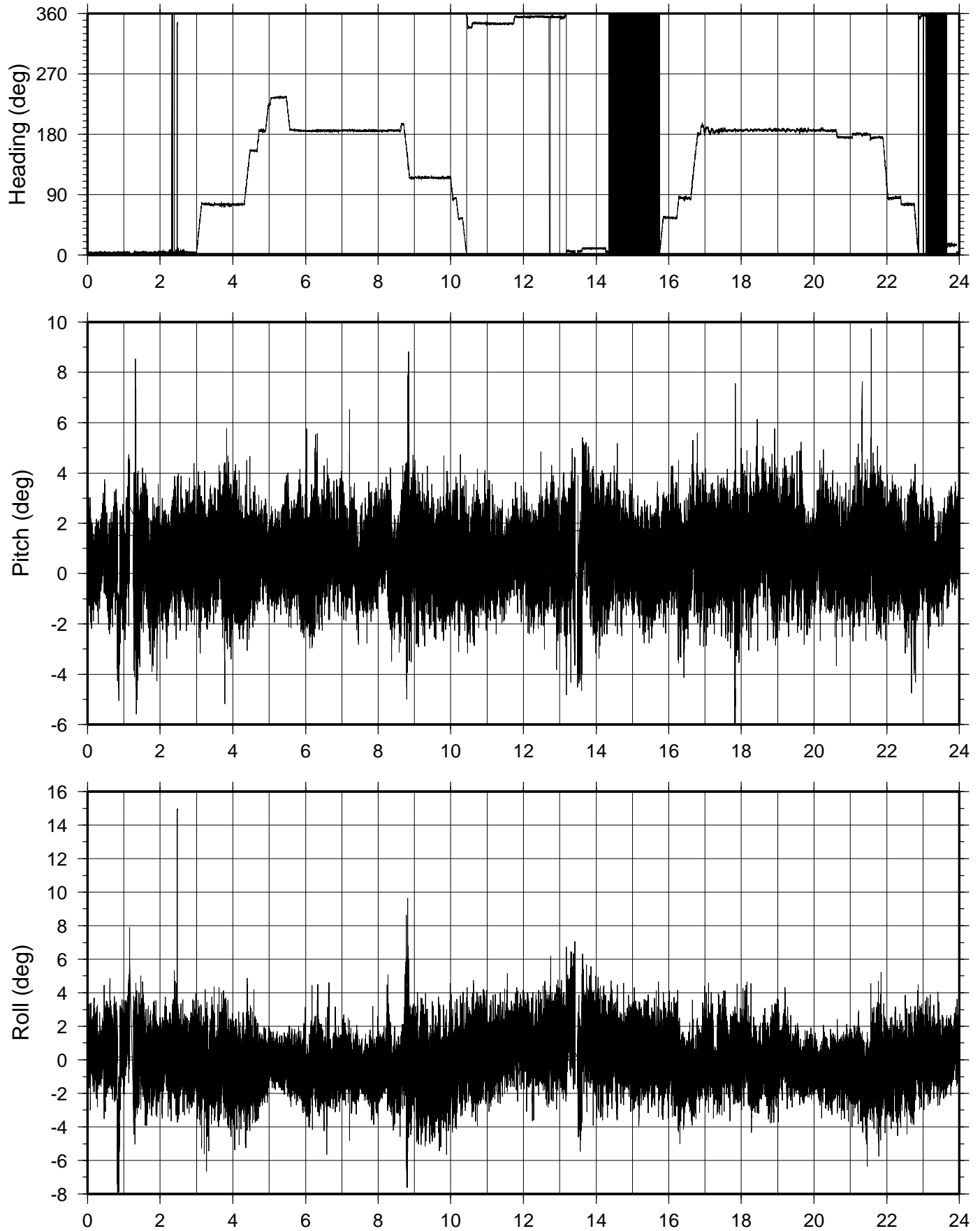




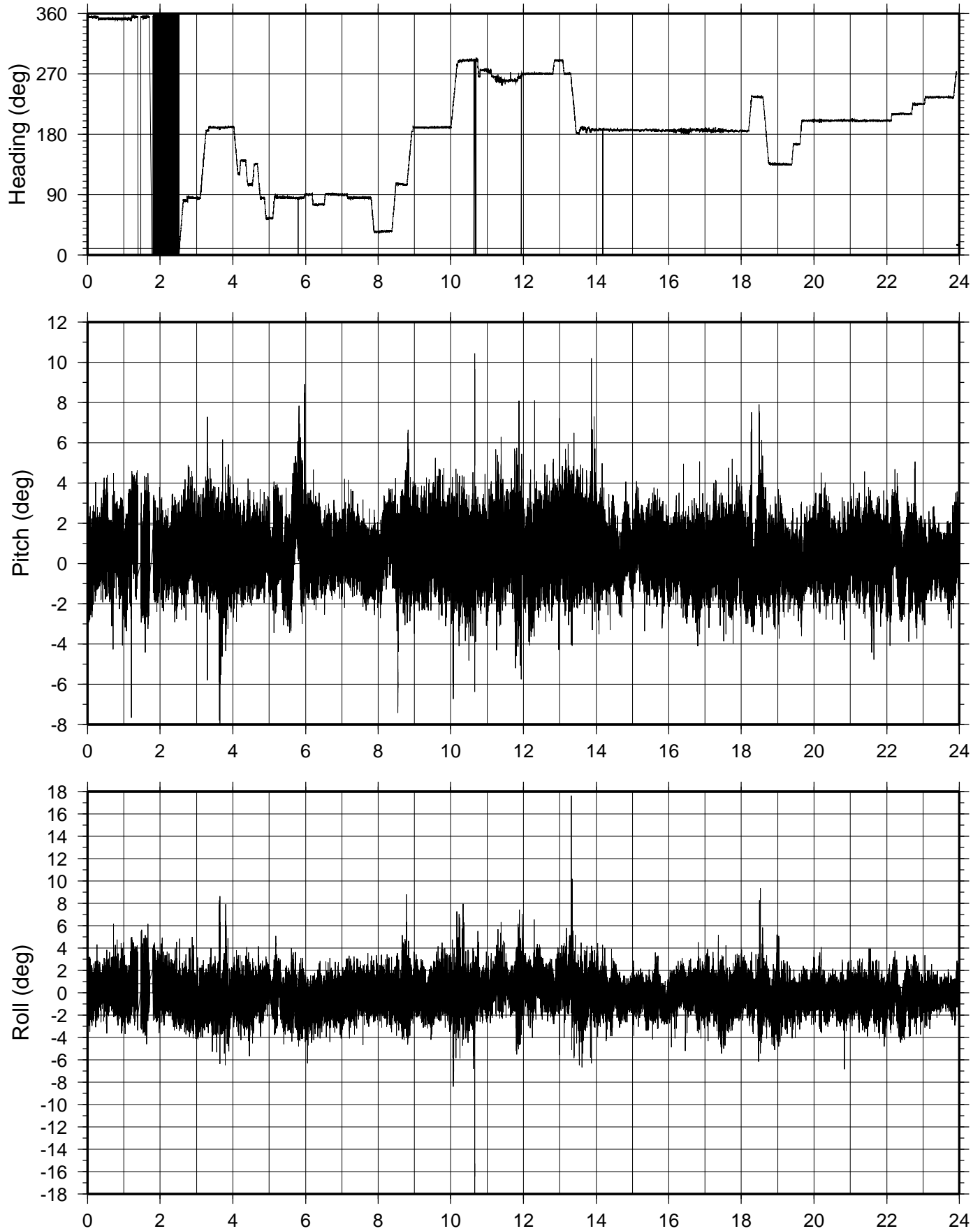
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct13



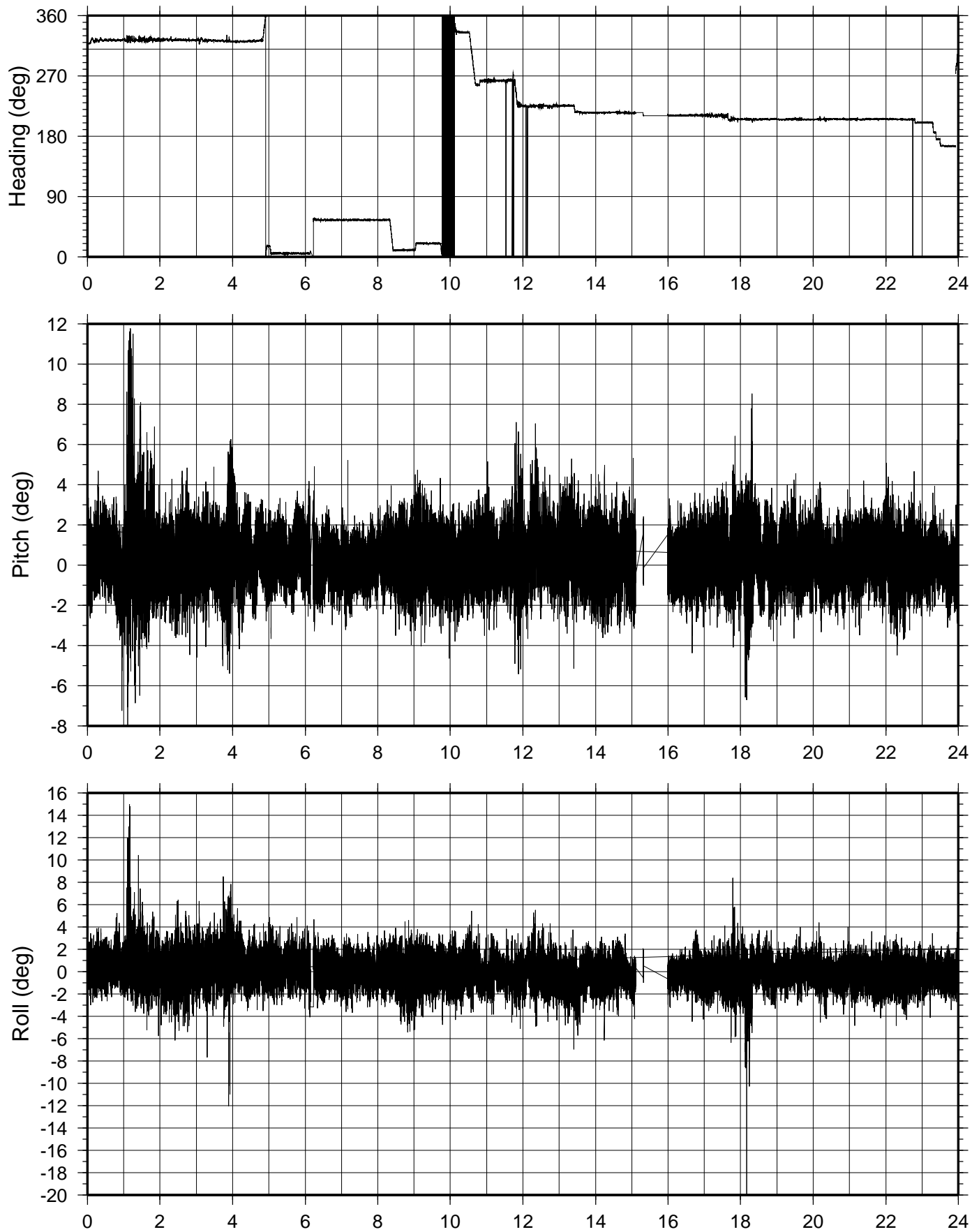
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct14



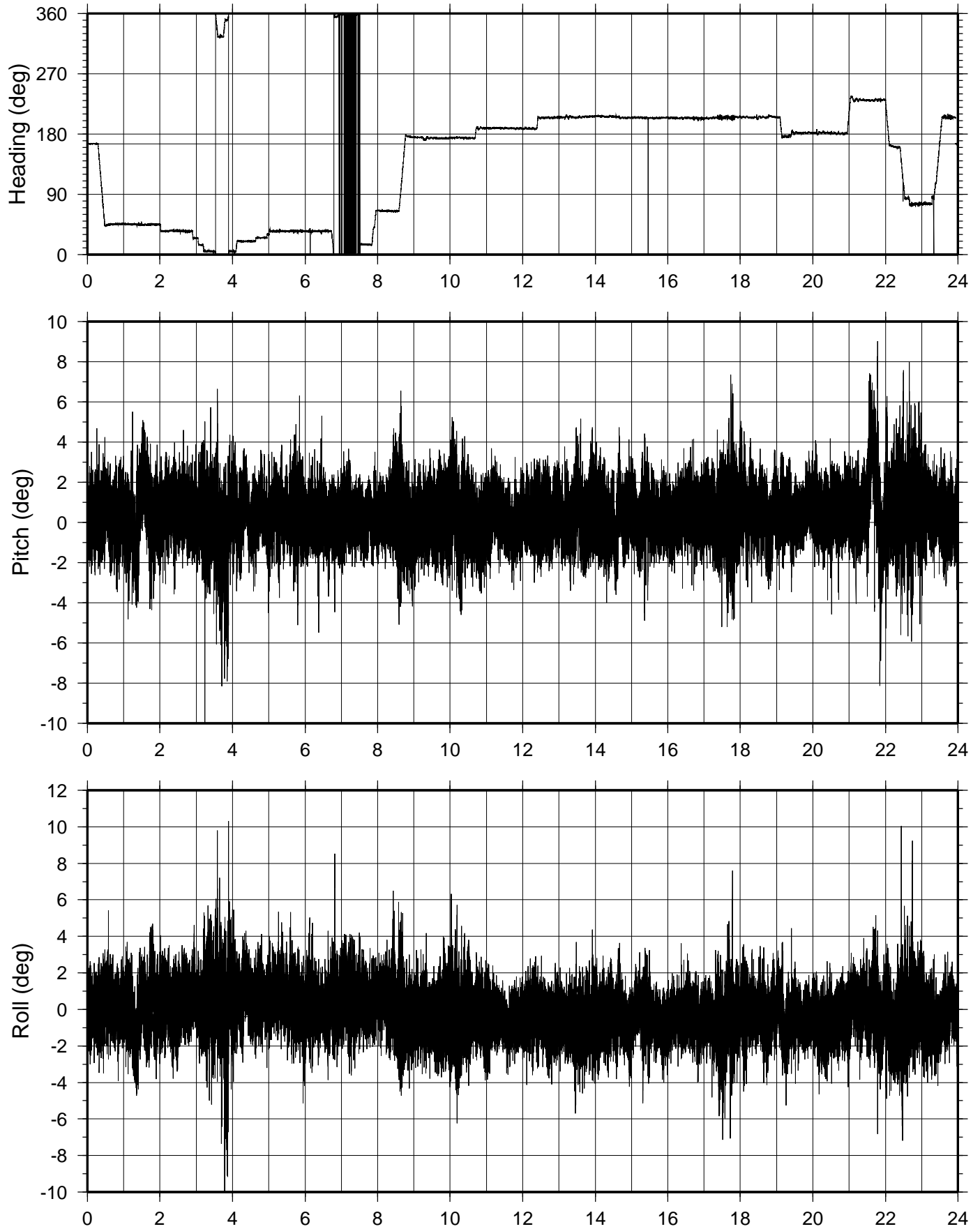
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct15



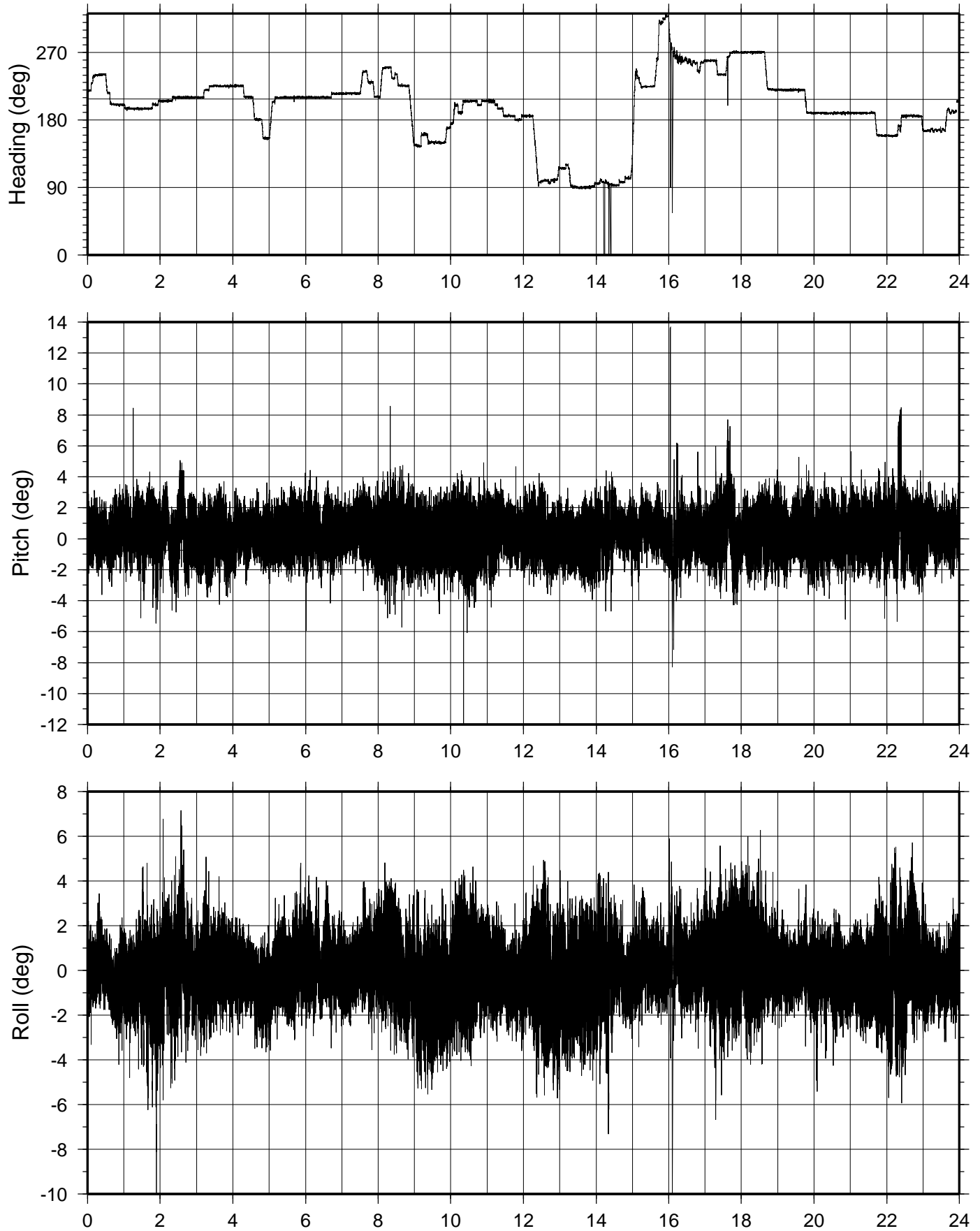
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct16



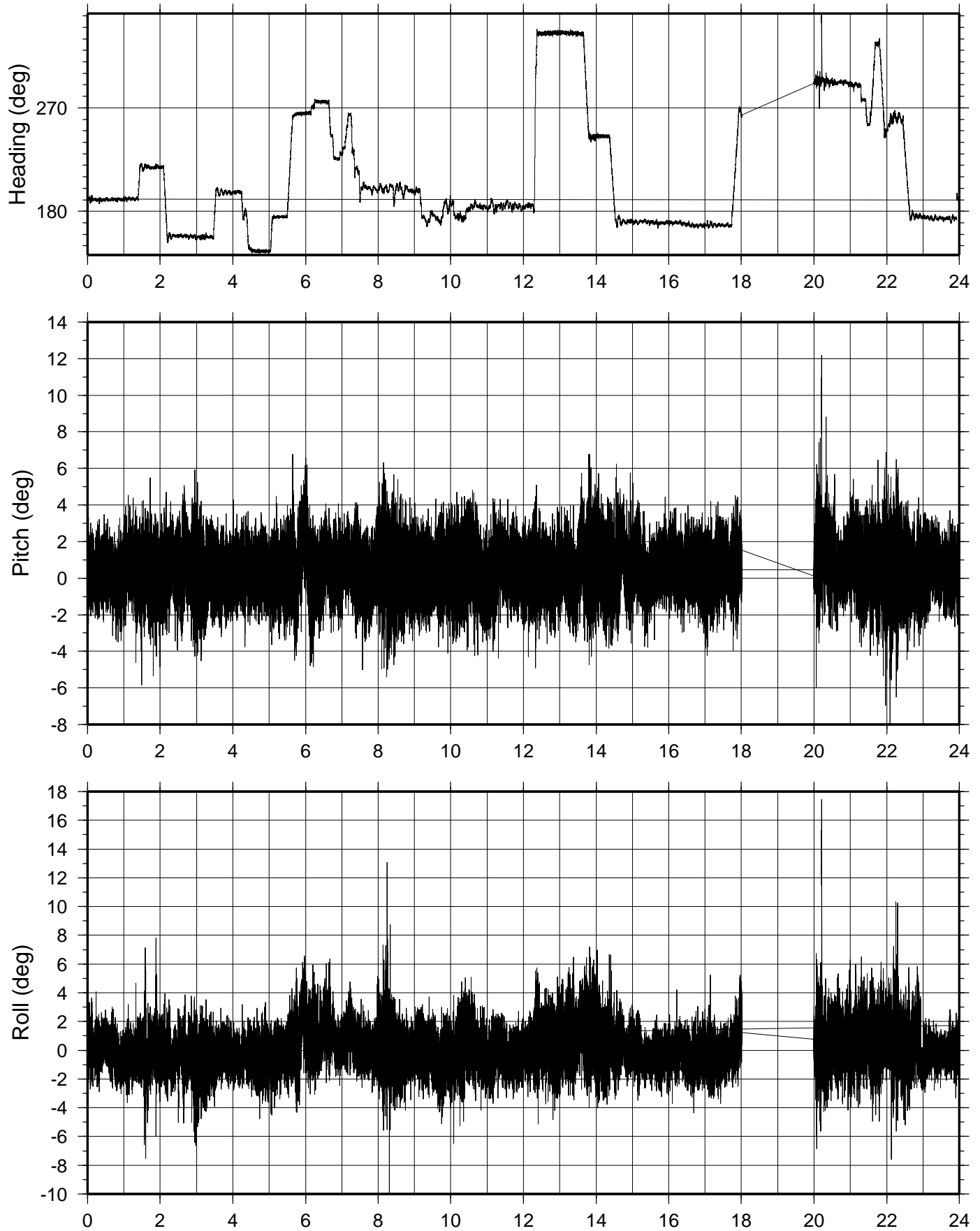
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct17



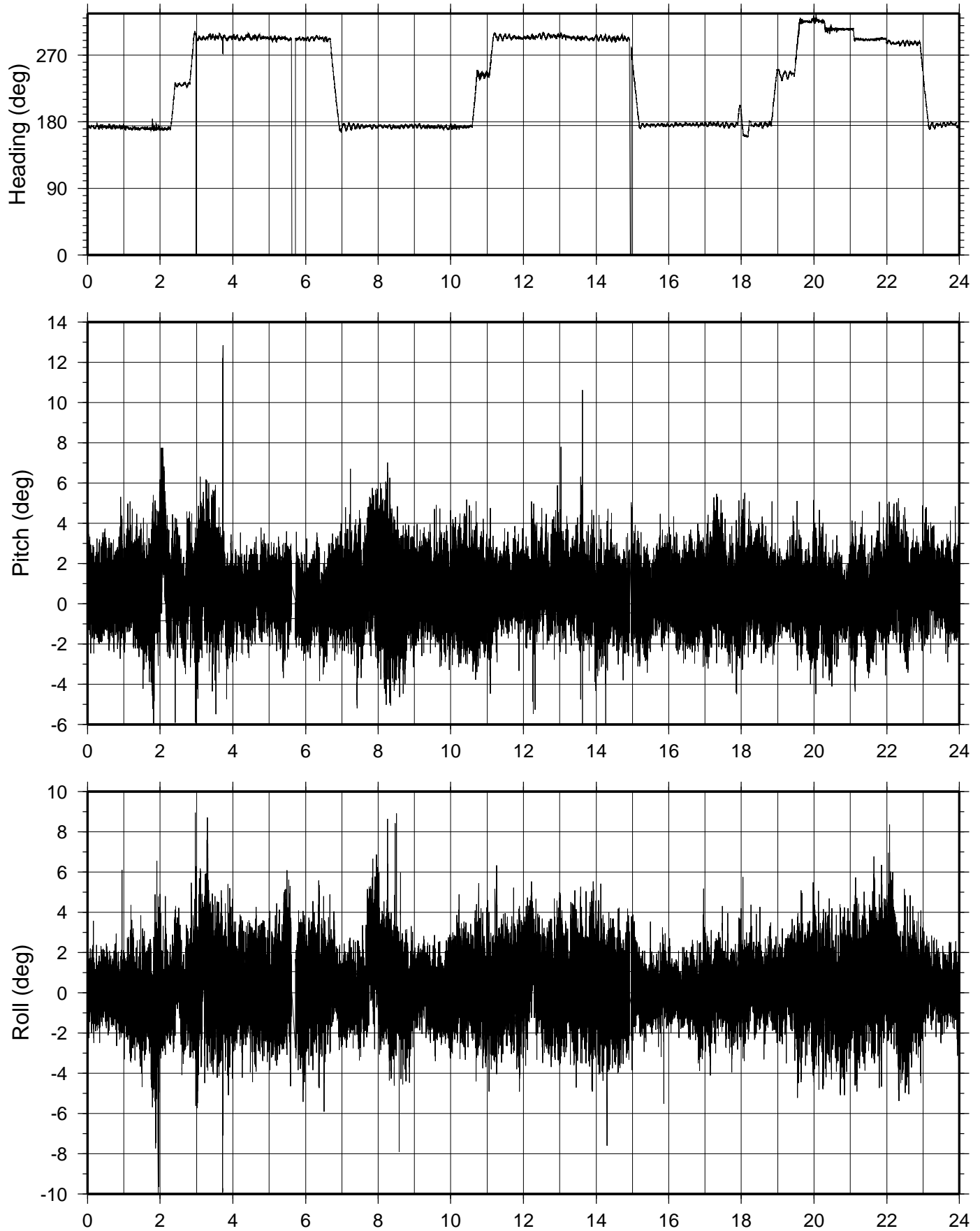
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct18



# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct19

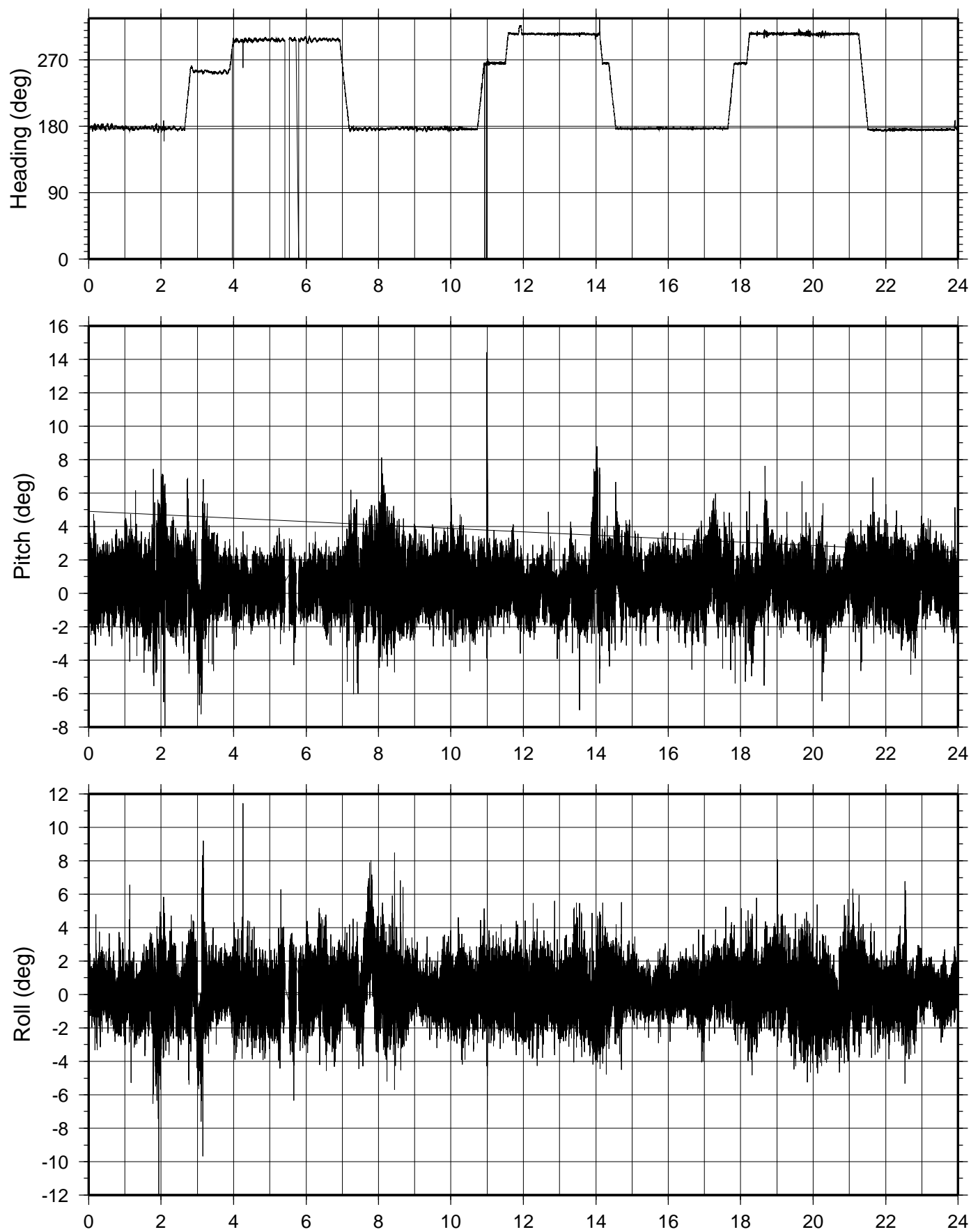


# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct20

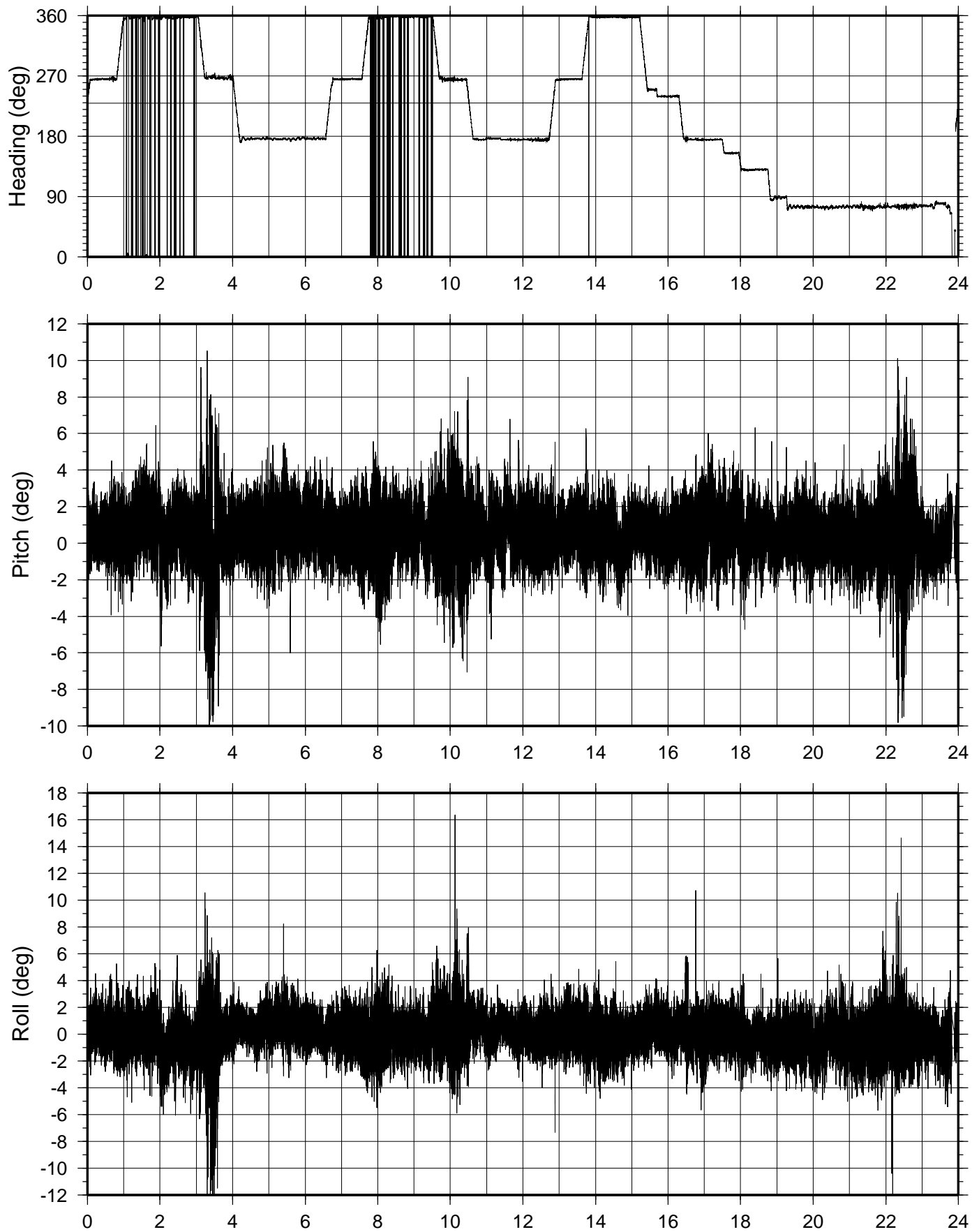




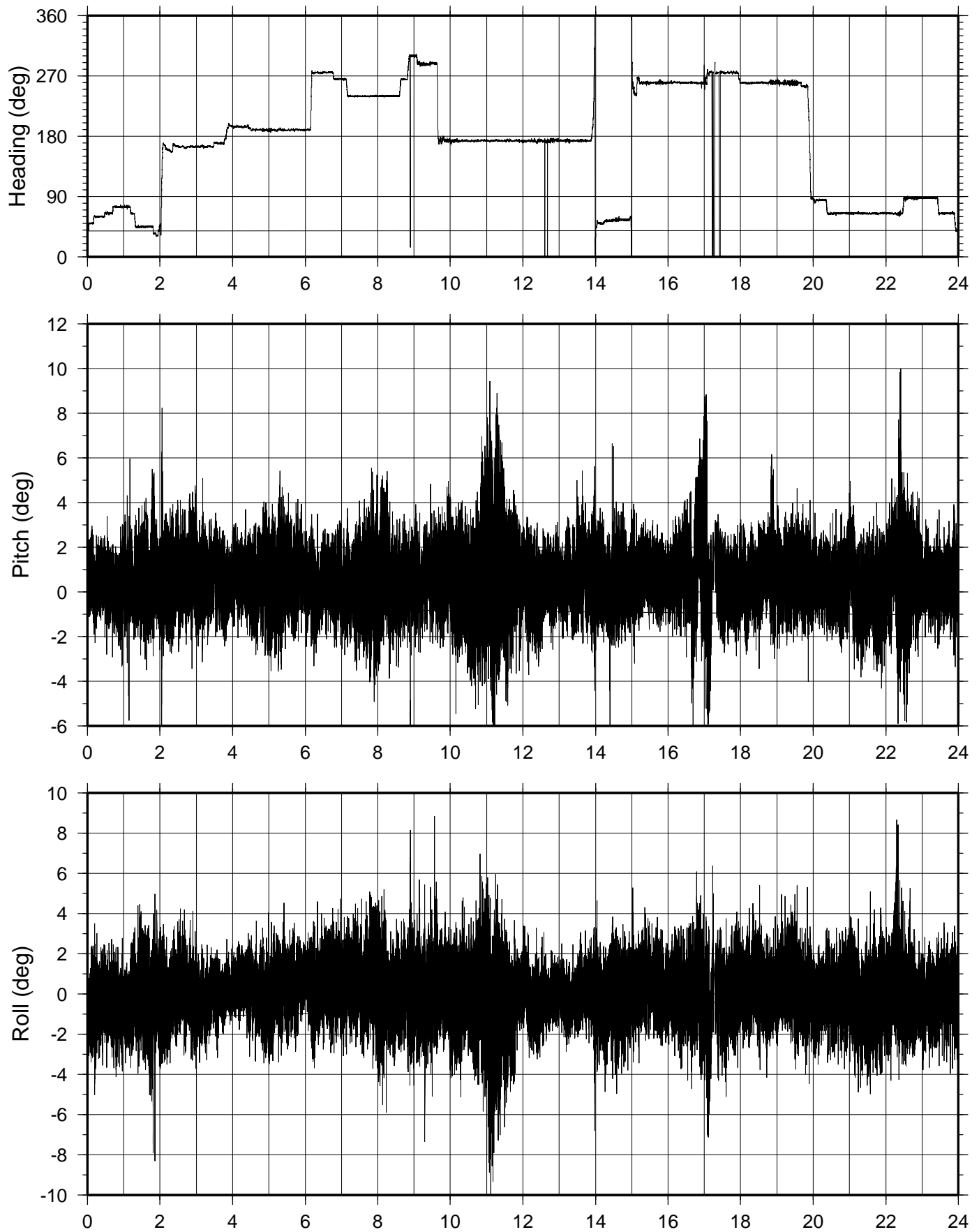
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct21



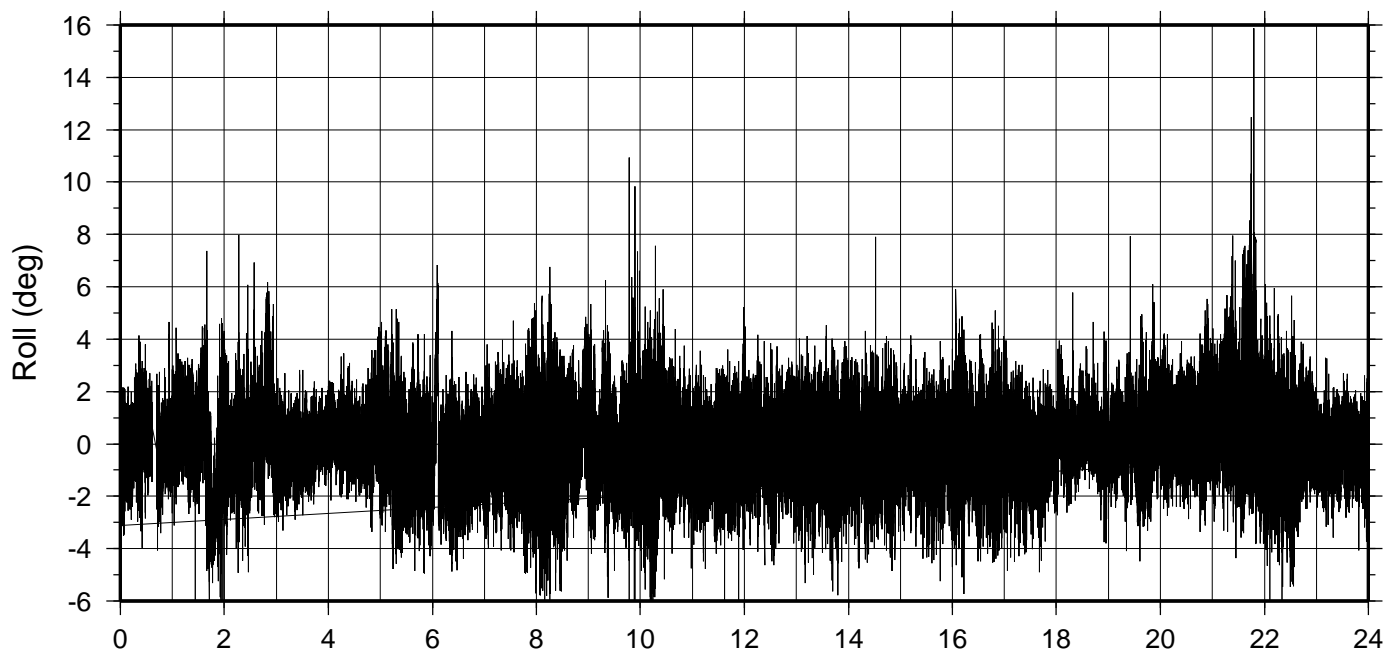
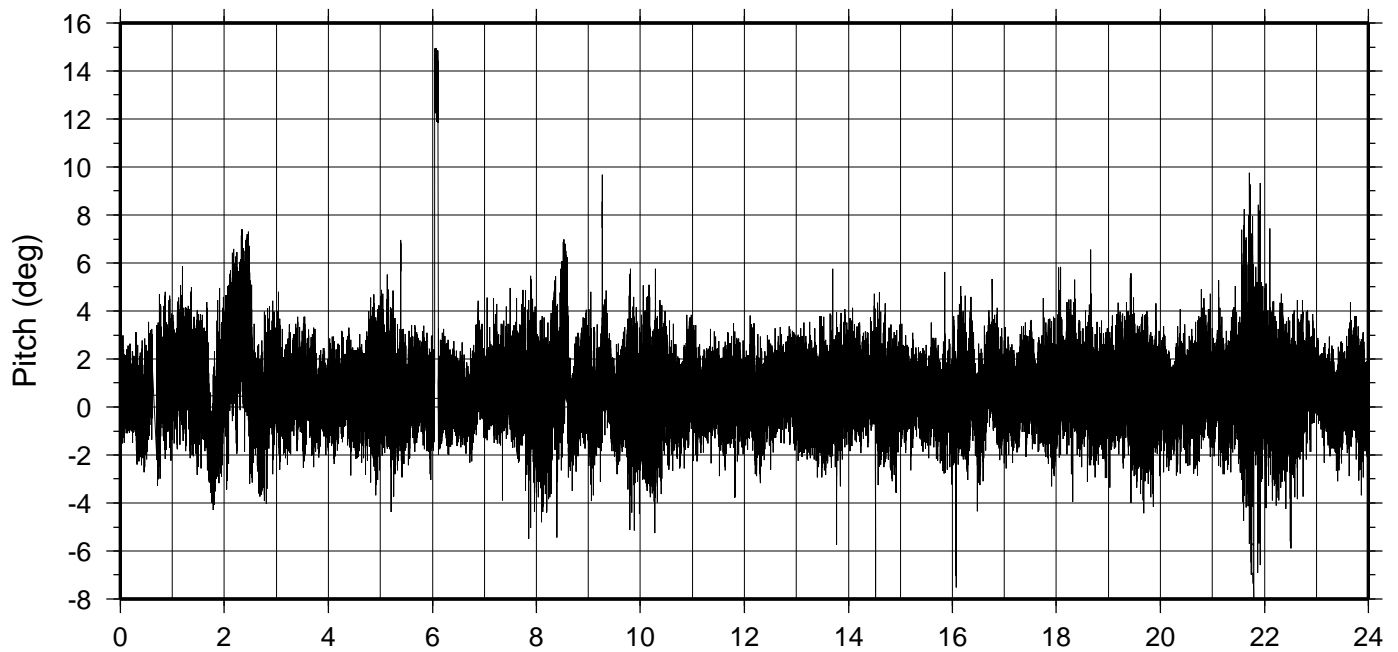
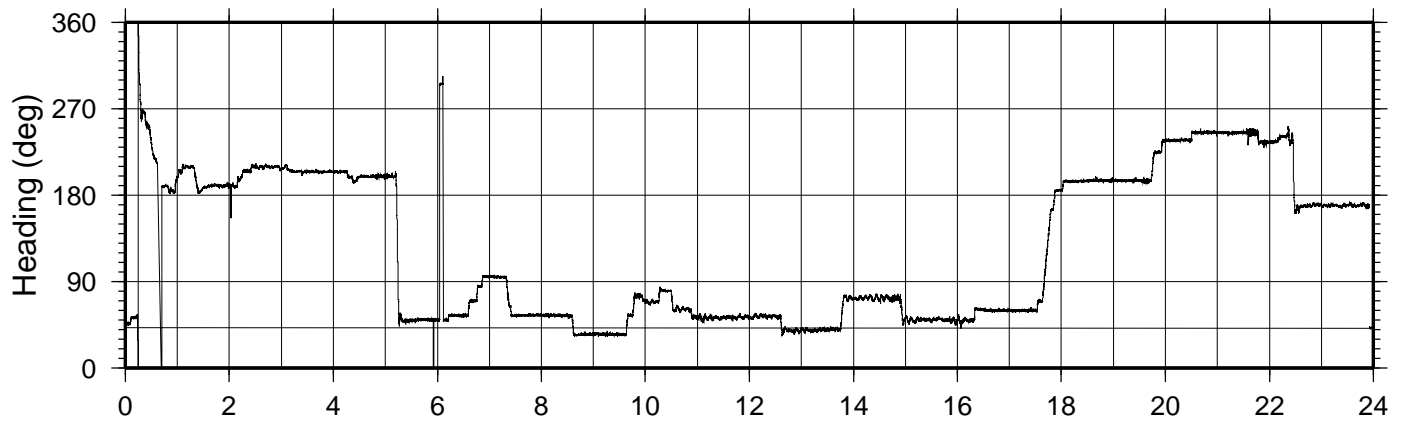
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct22



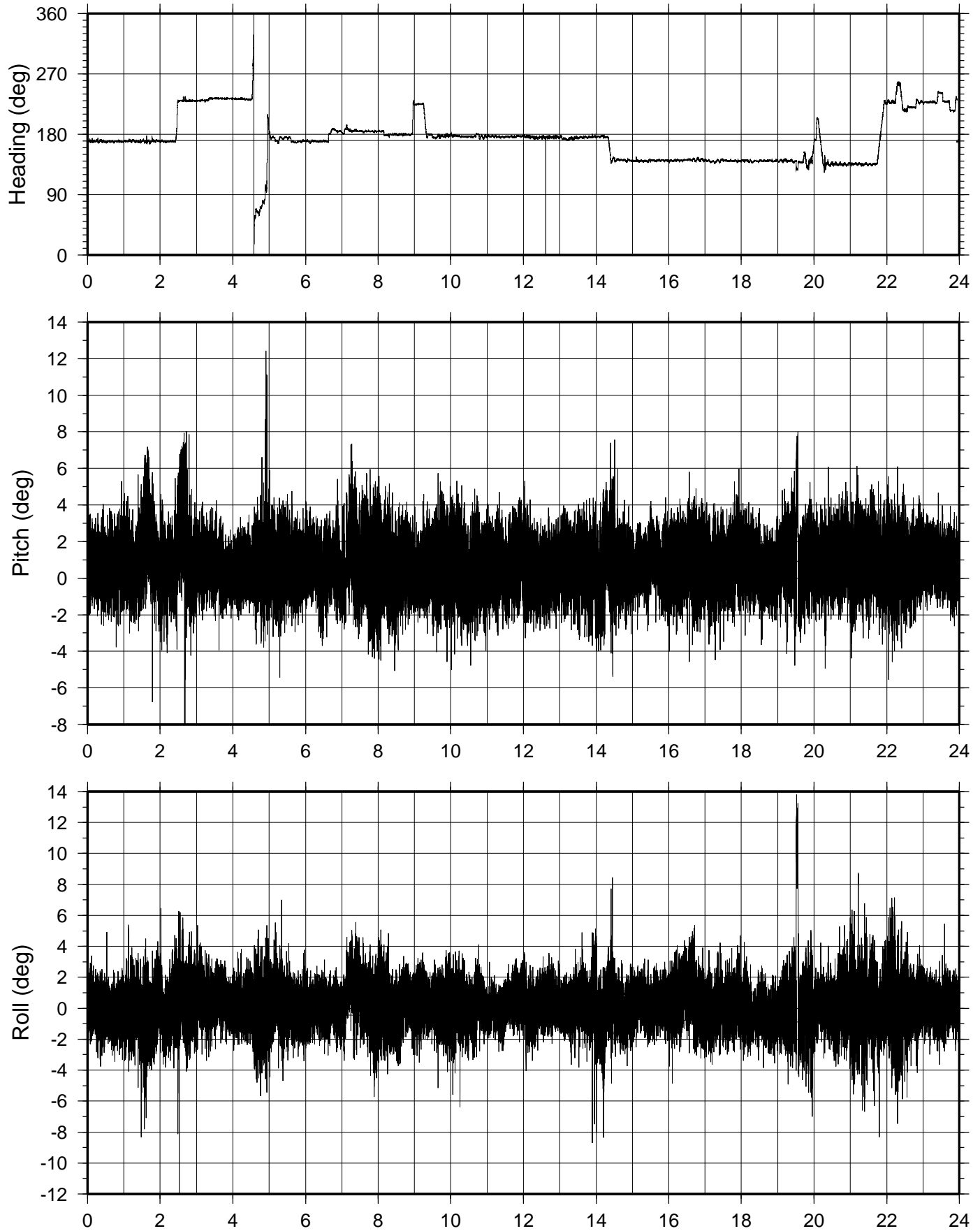
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct23



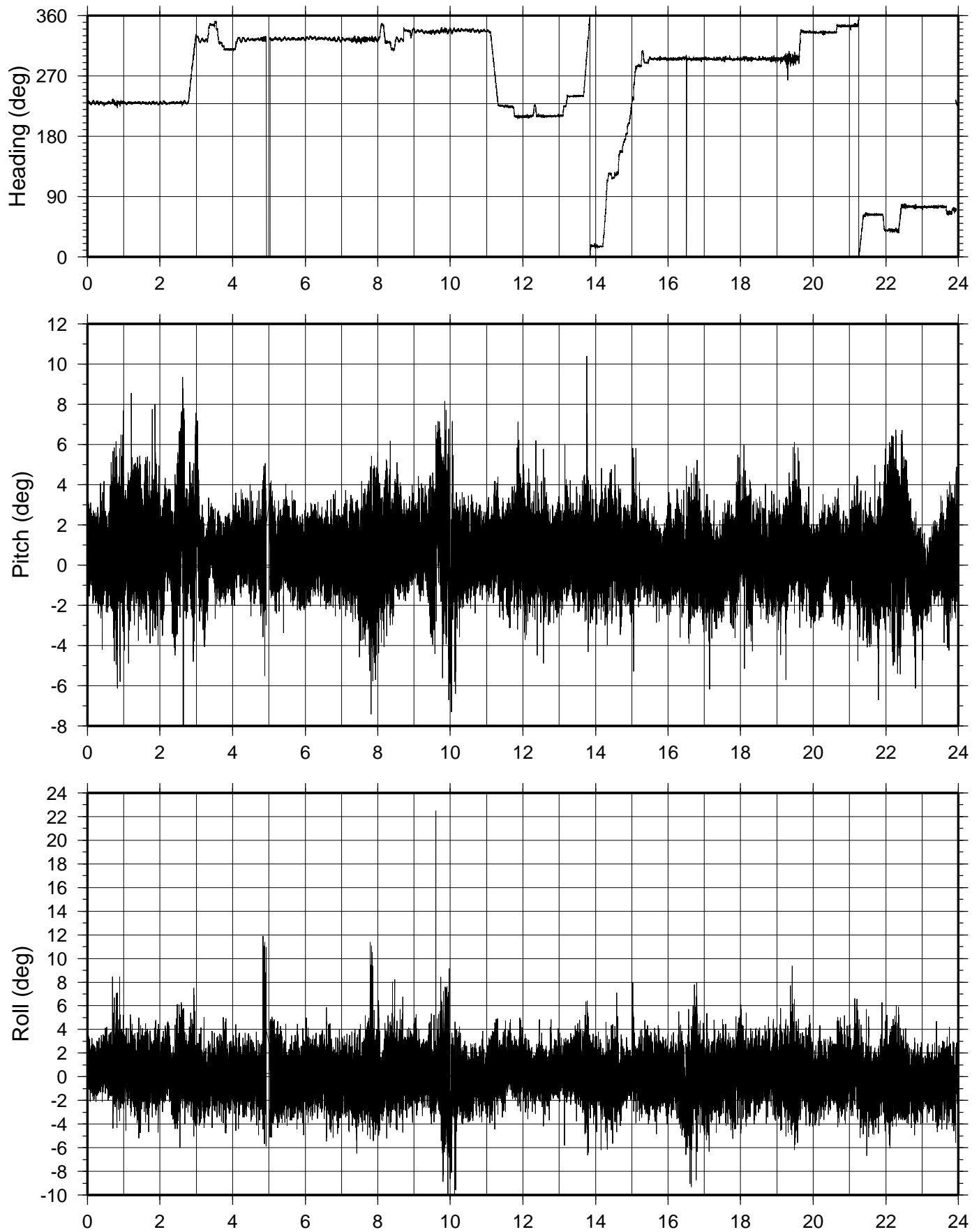
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct24



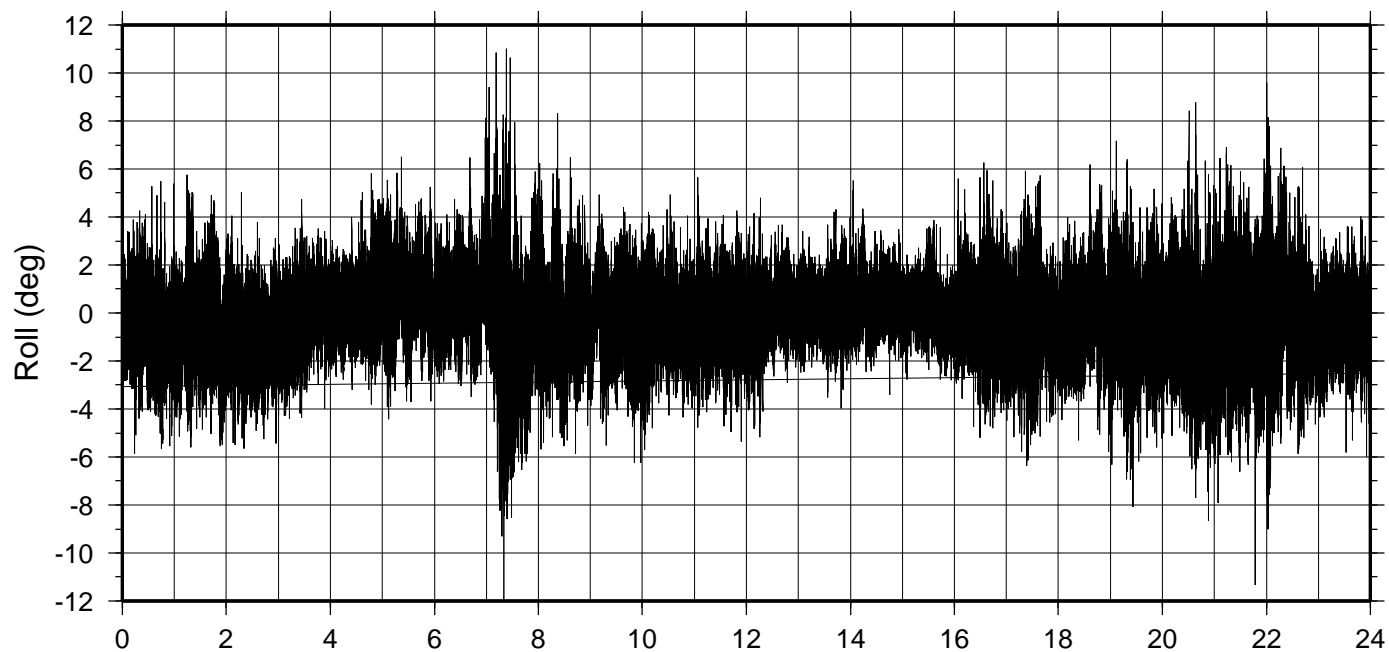
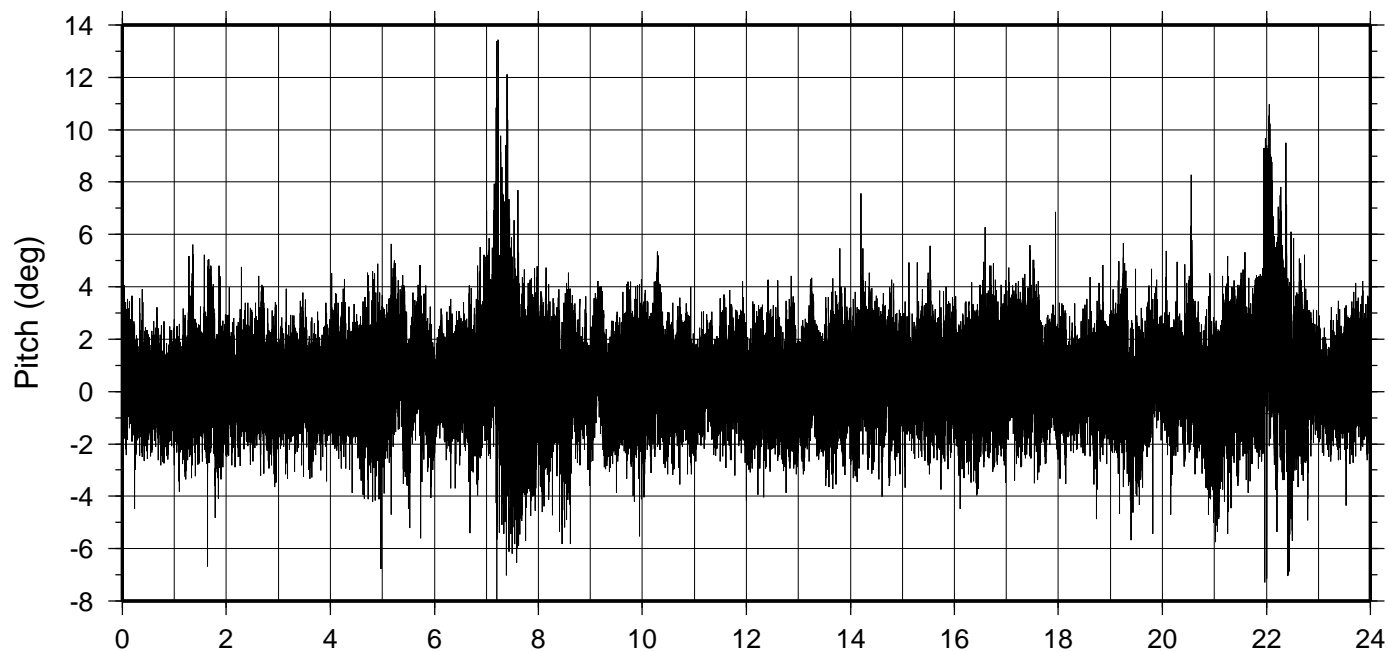
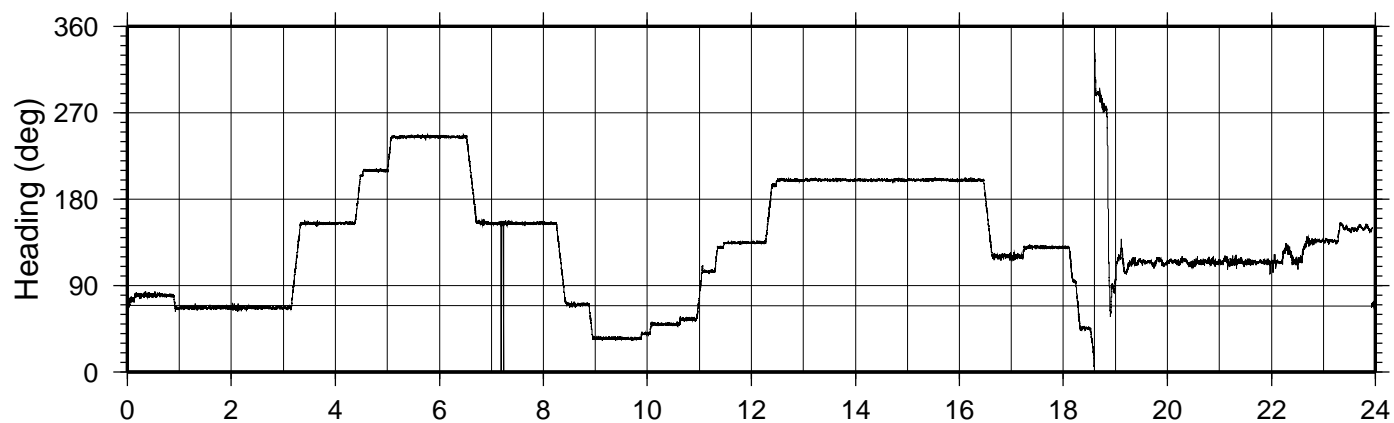
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct25



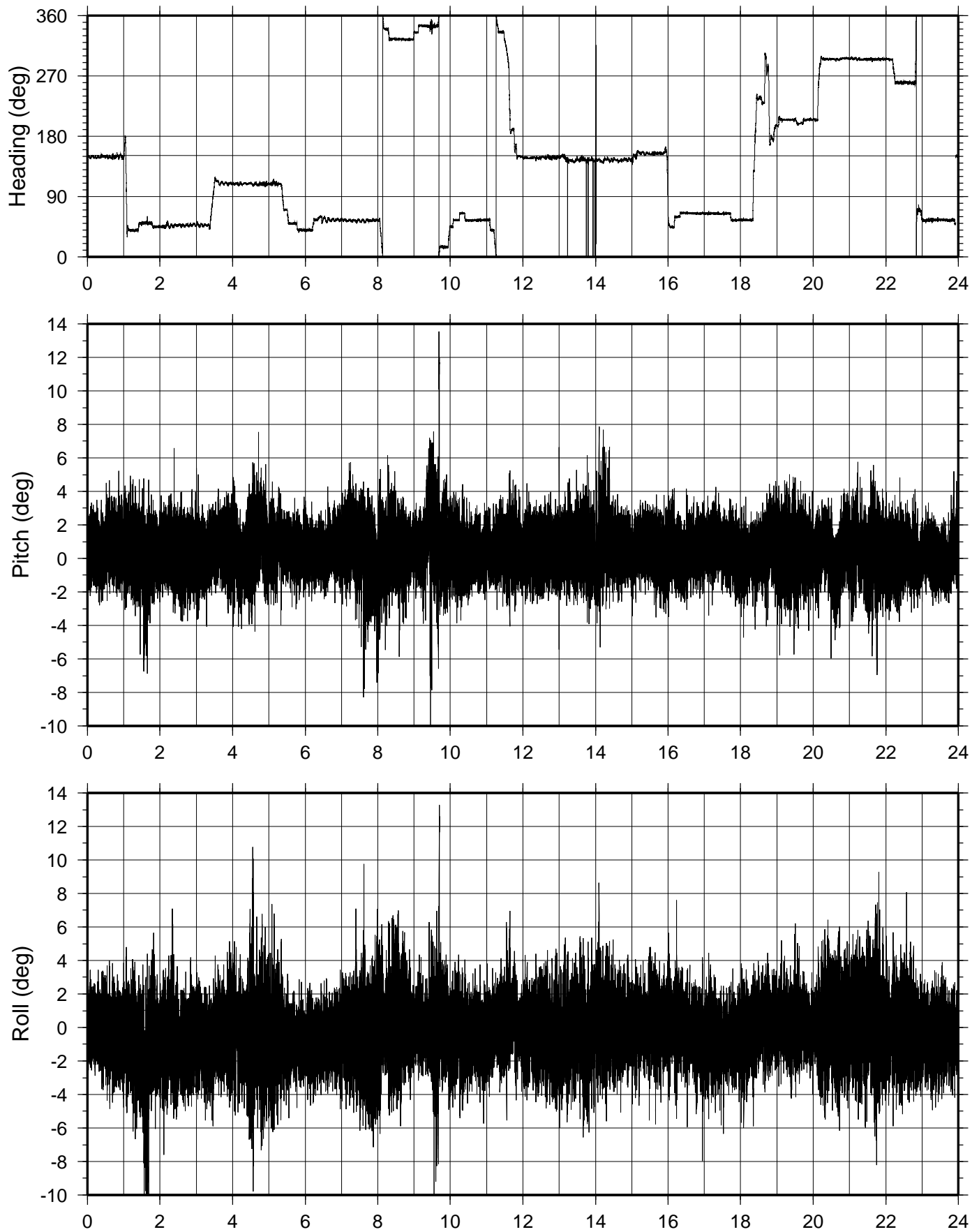
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct26



# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct27

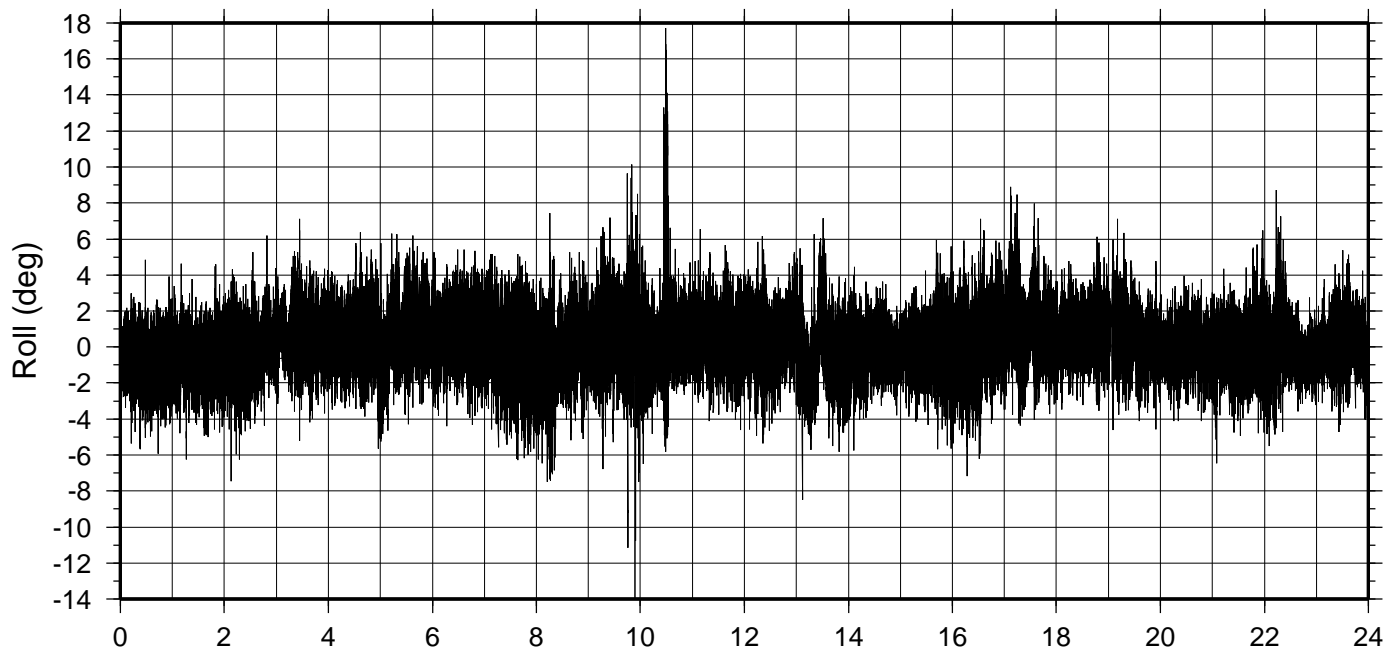
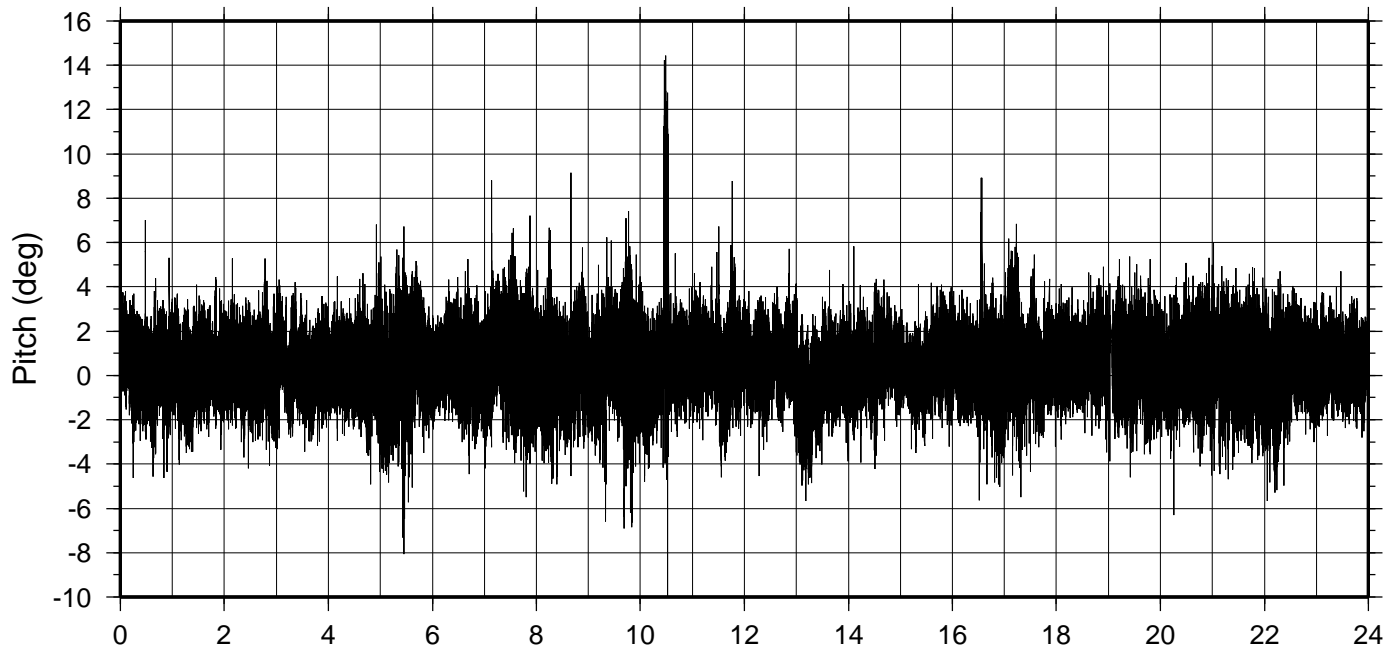
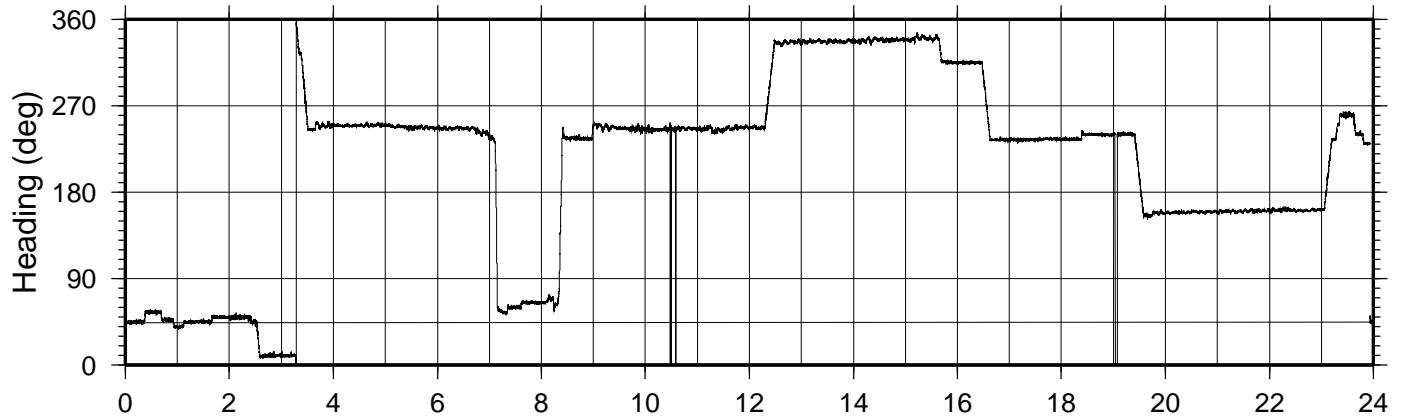


# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct28

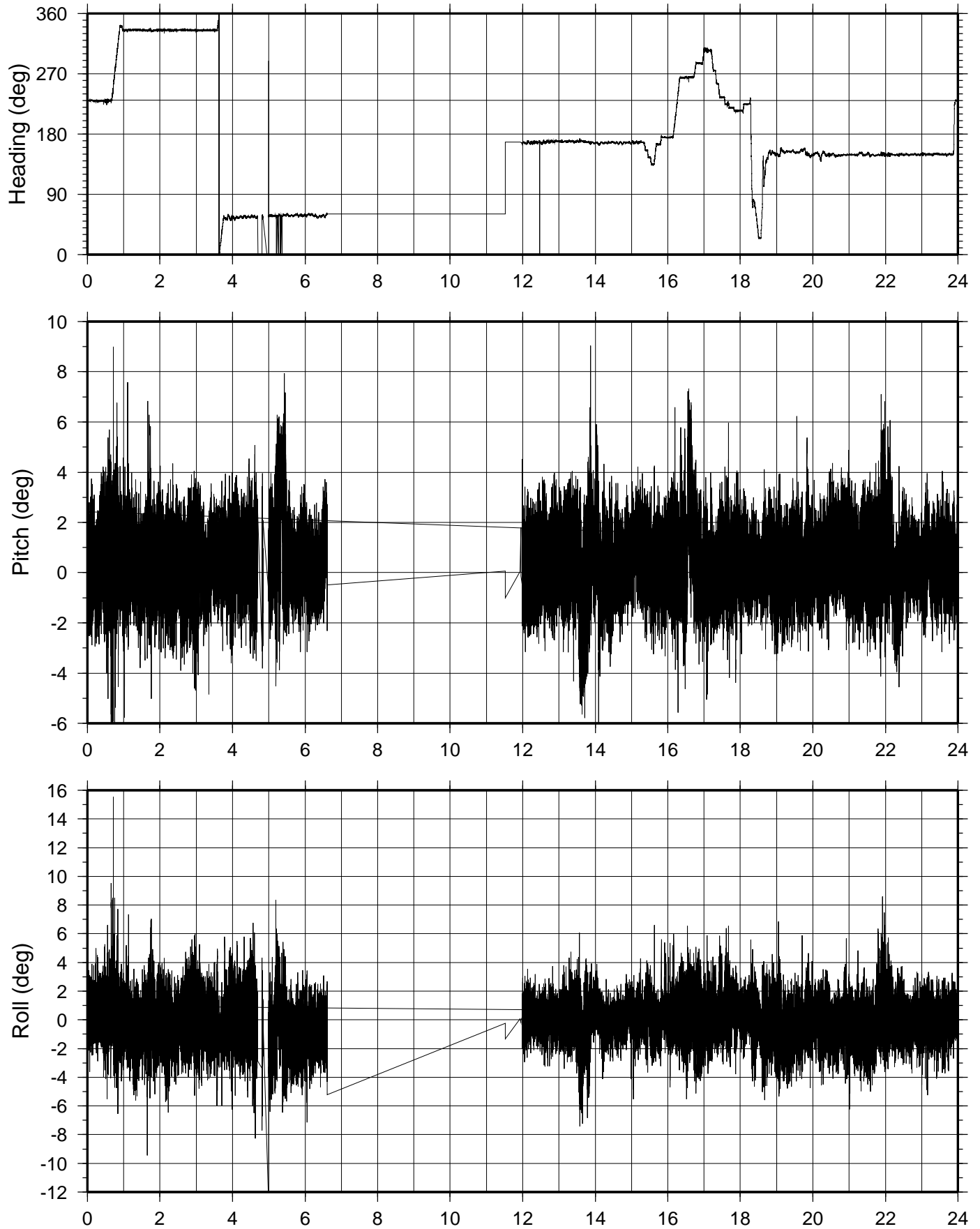




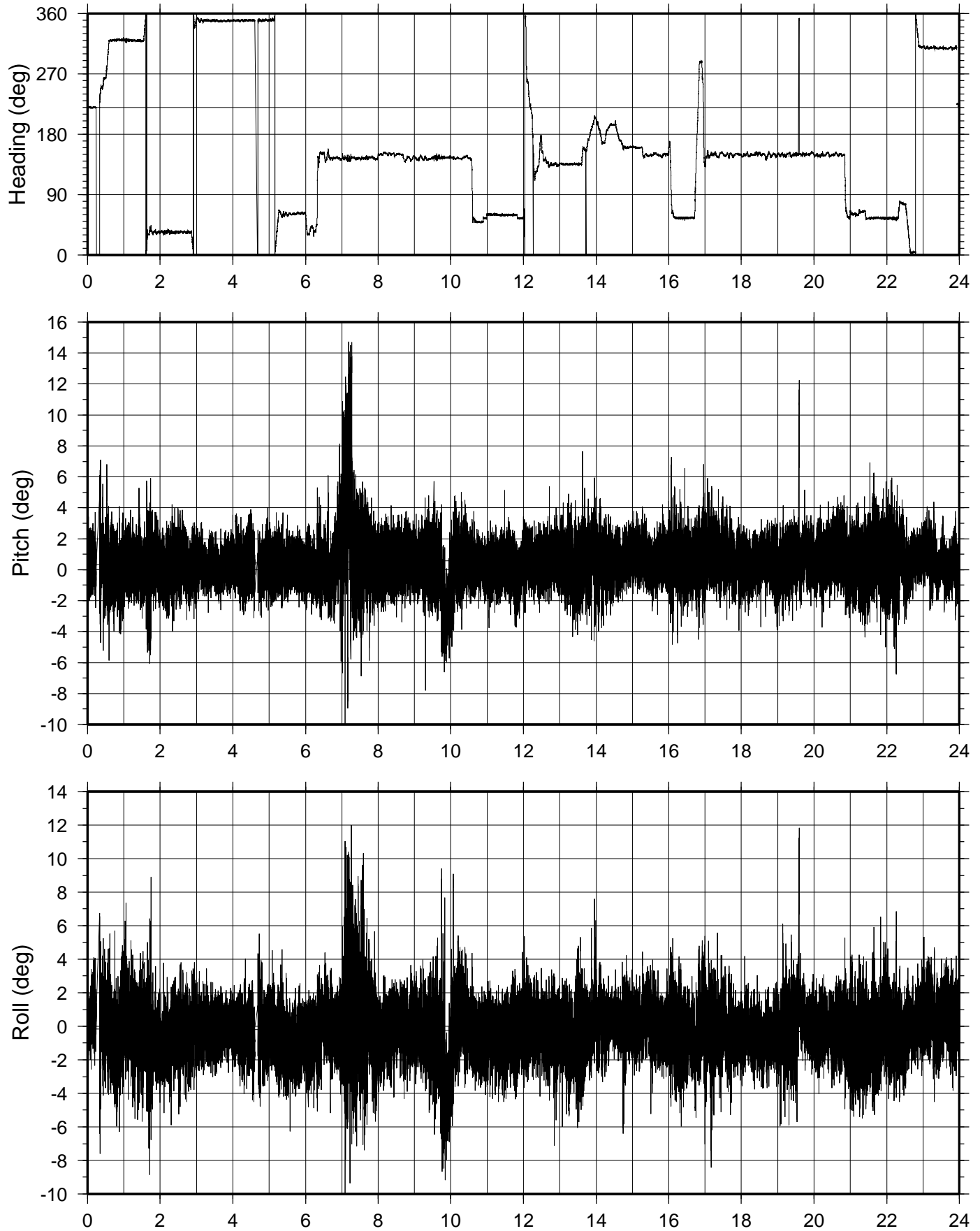
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct29



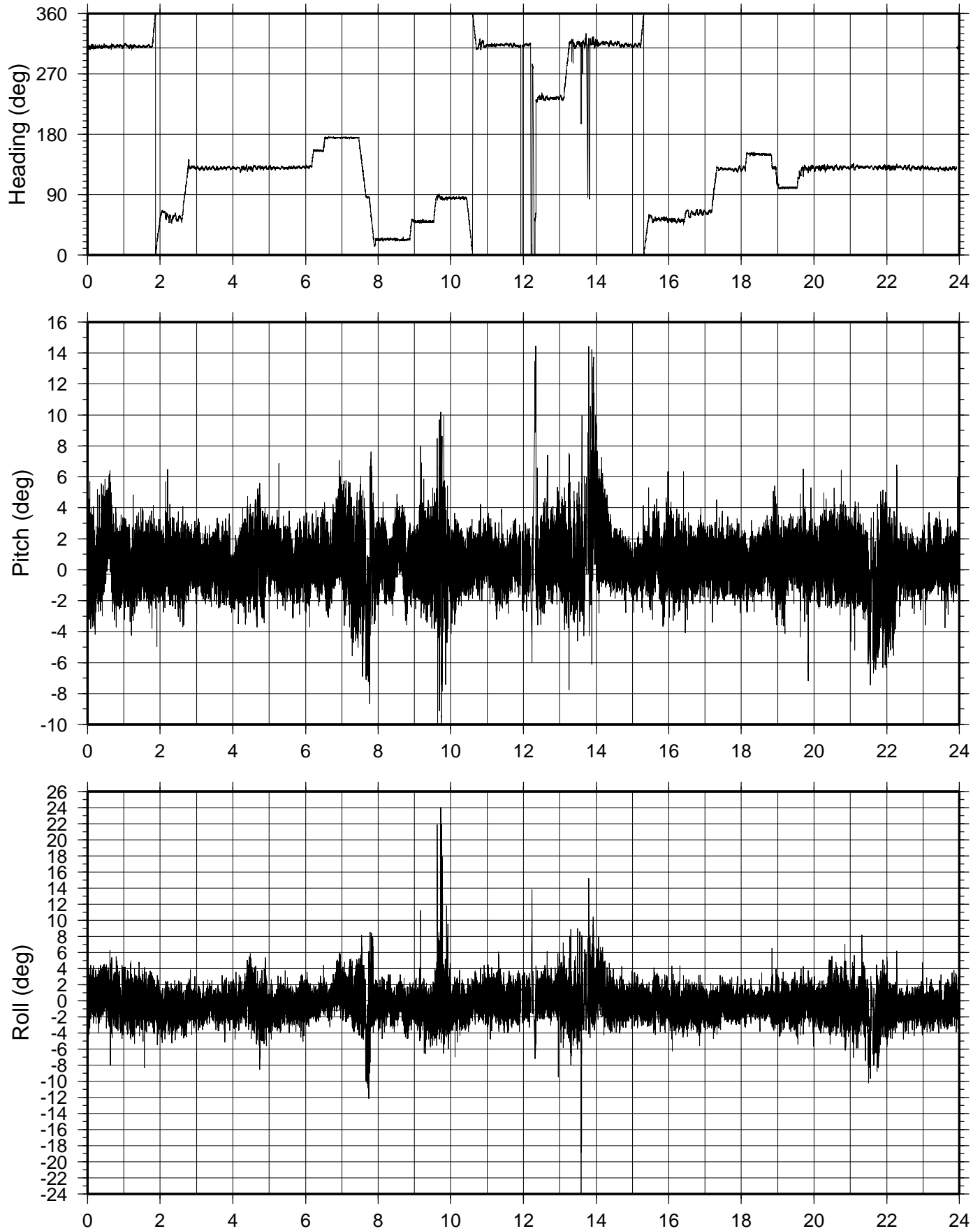
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct30



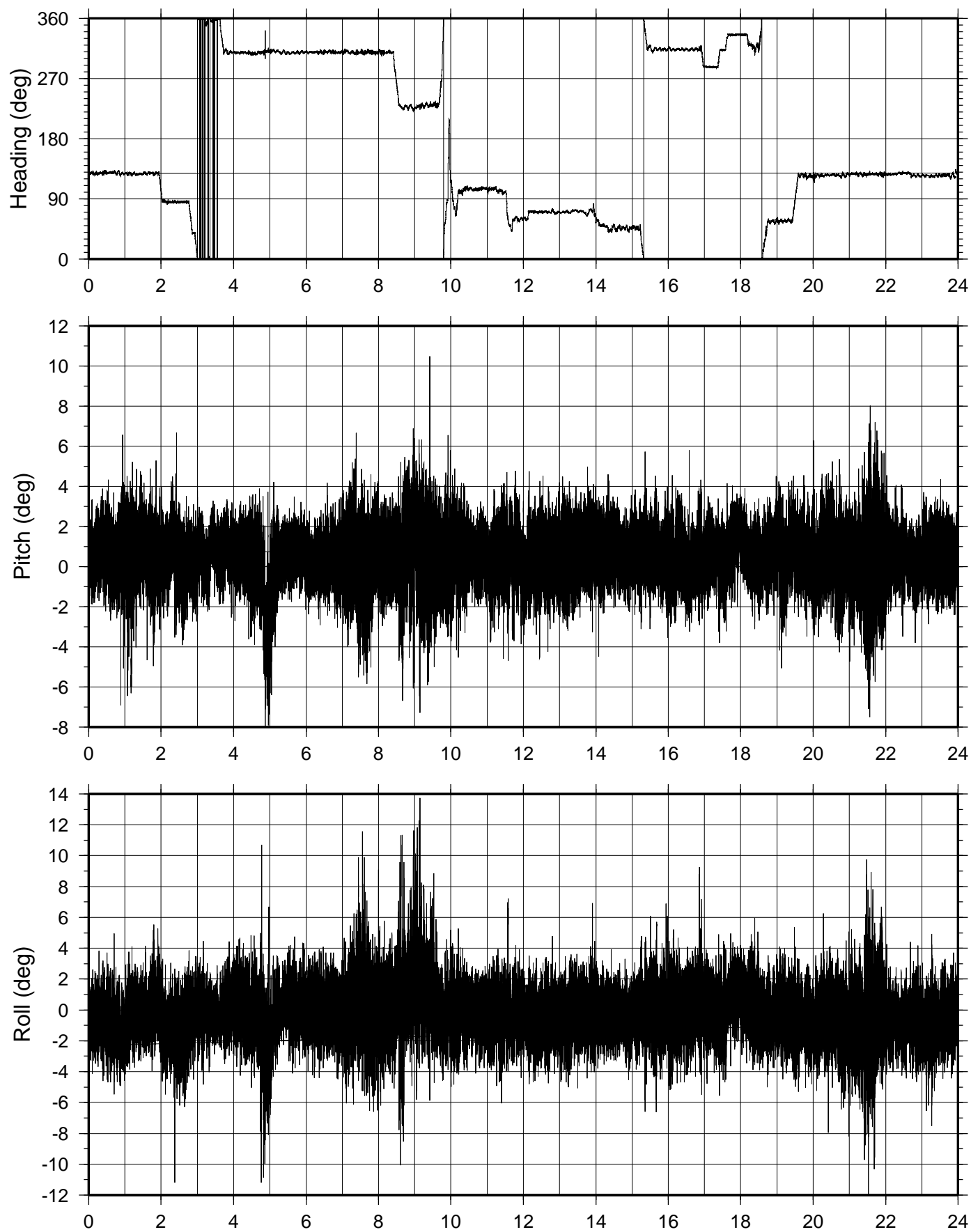
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003oct31



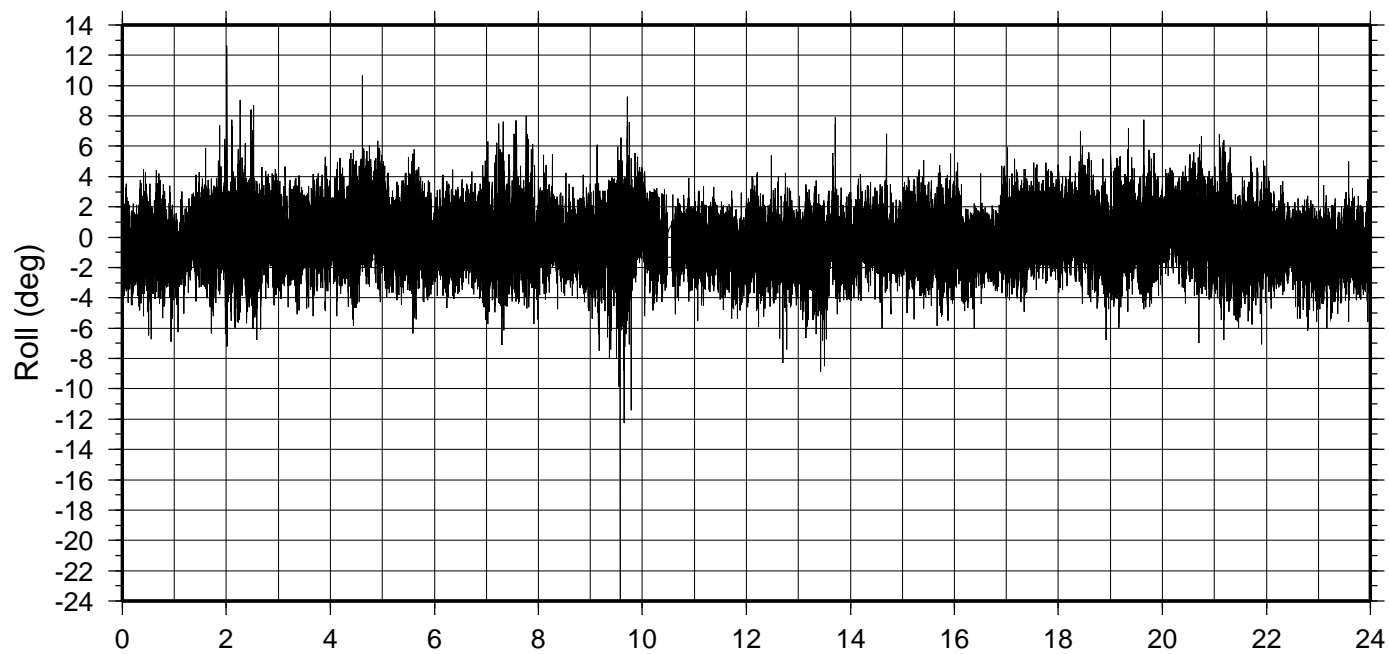
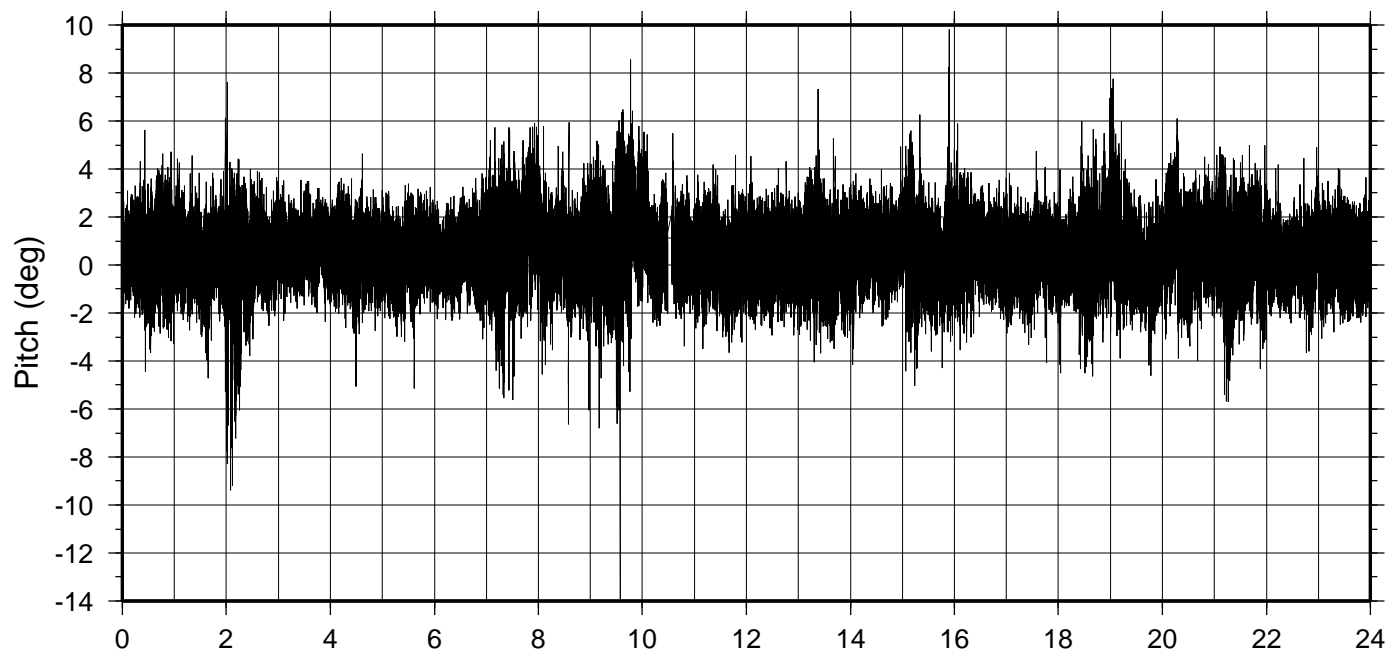
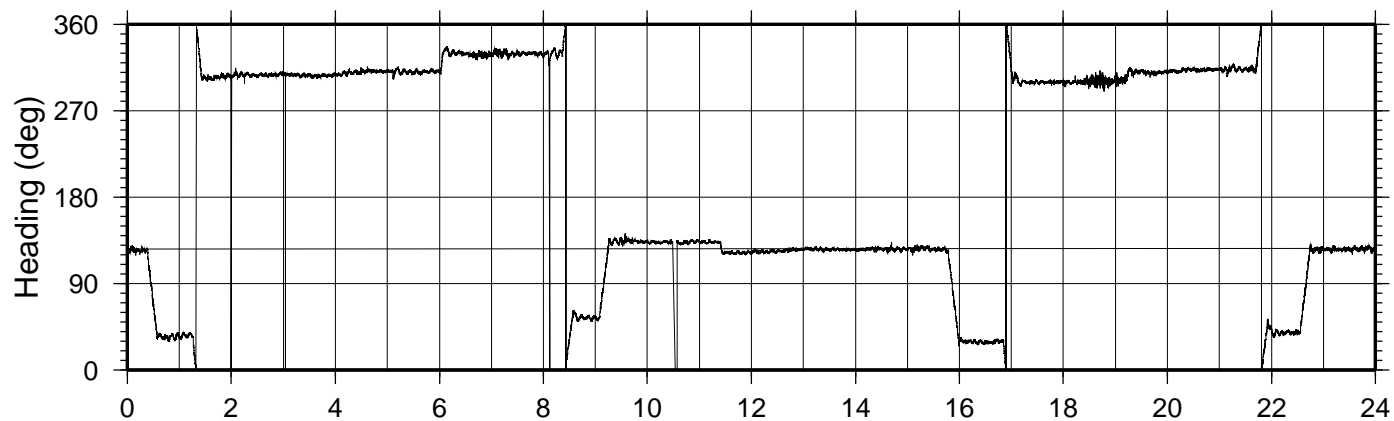
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003nov01



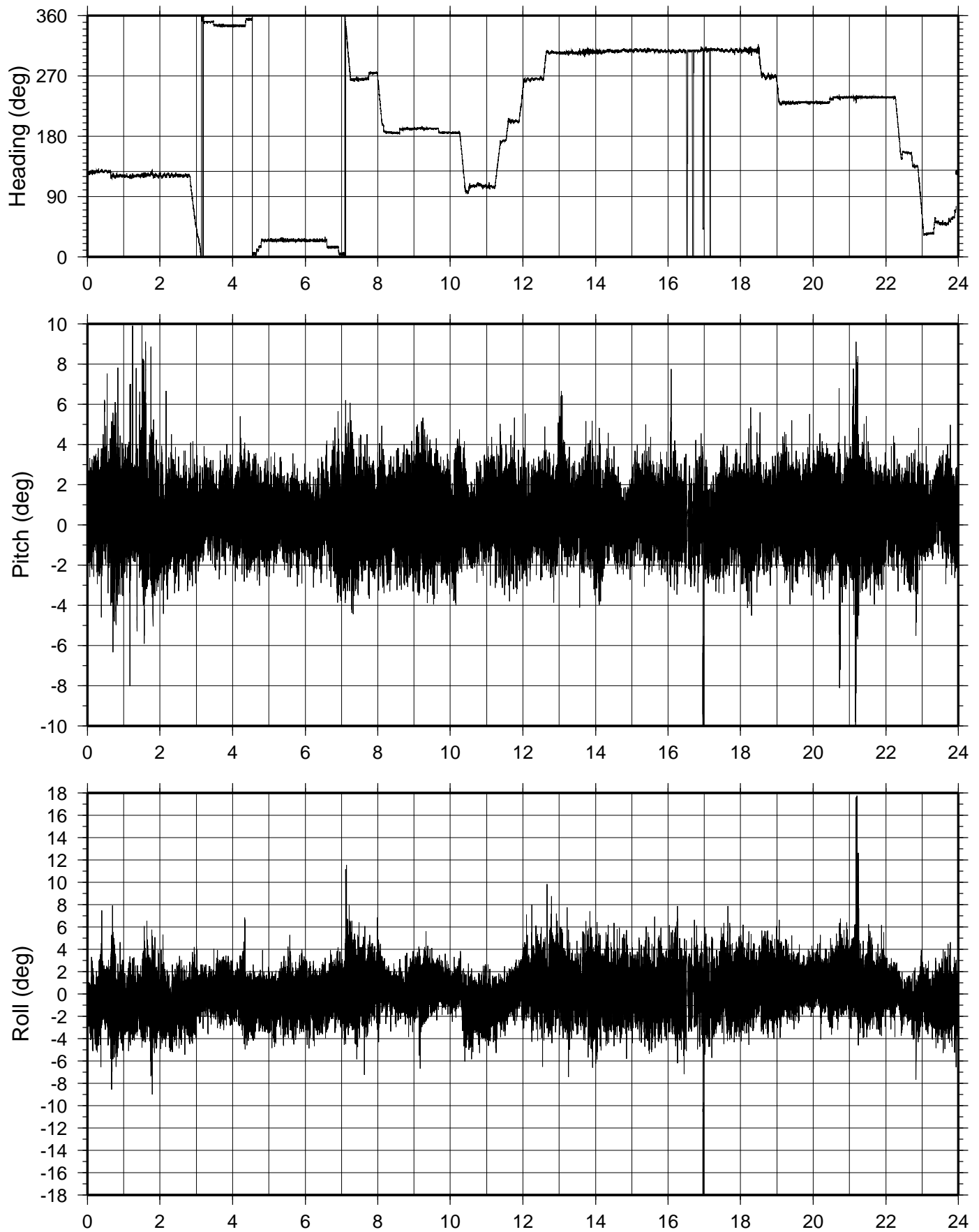
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003nov02



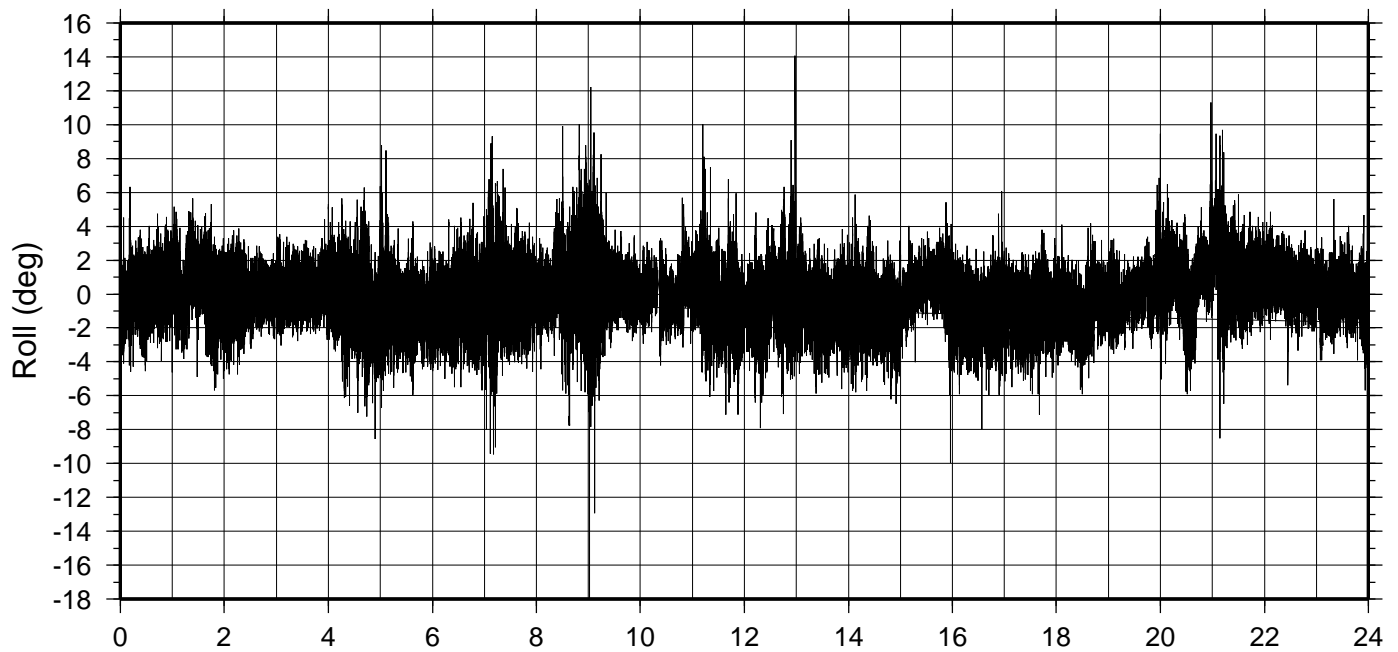
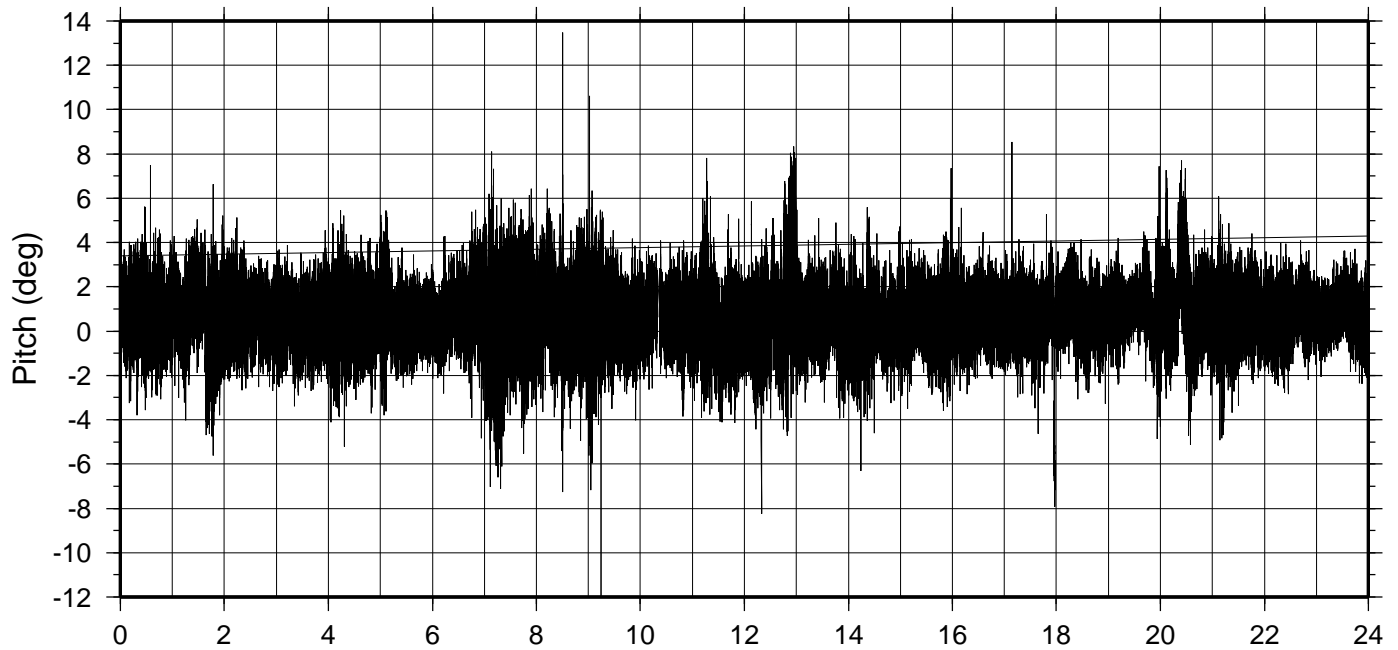
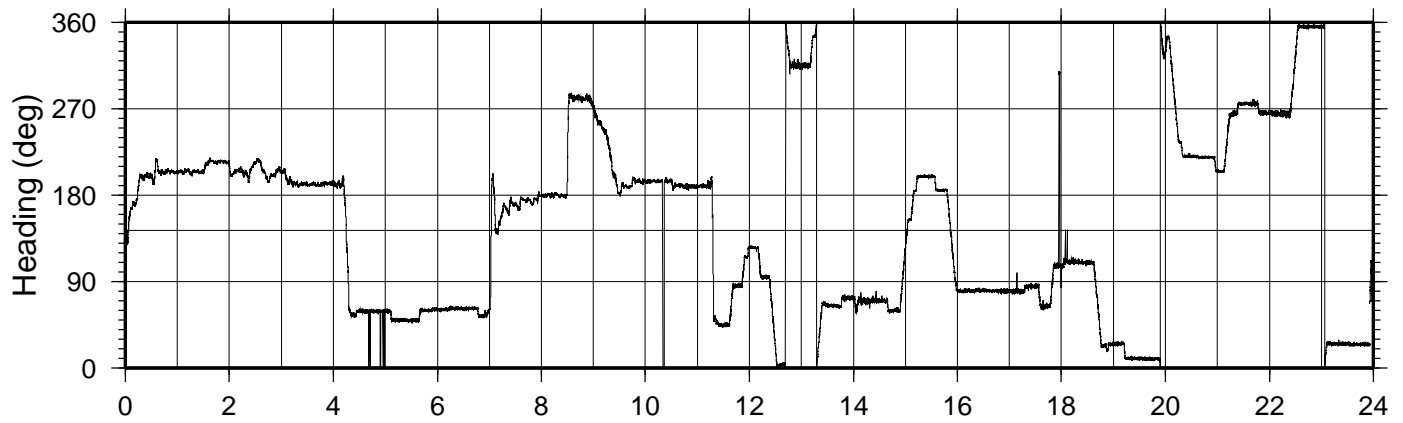
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003nov03



# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003nov04

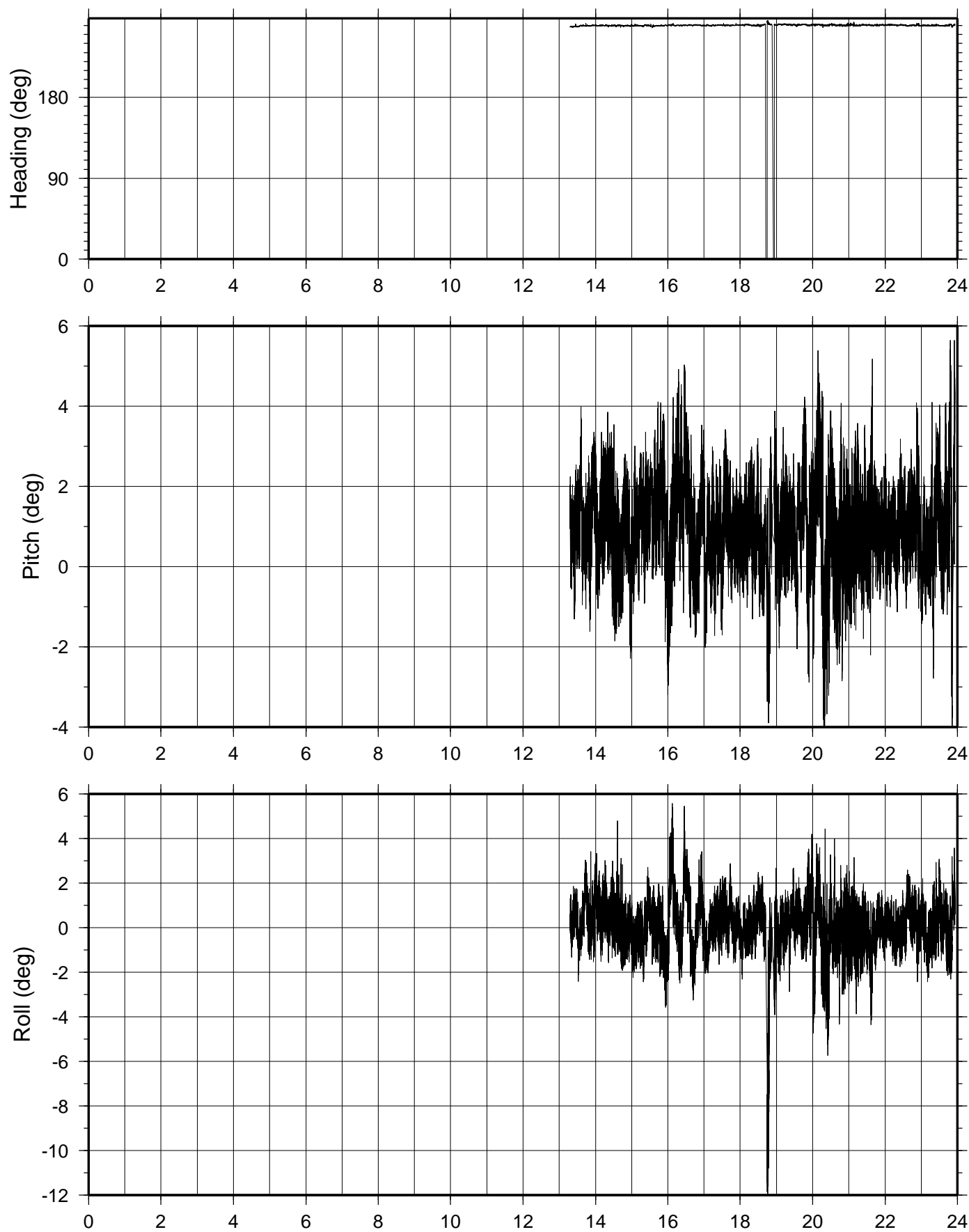


# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003nov05

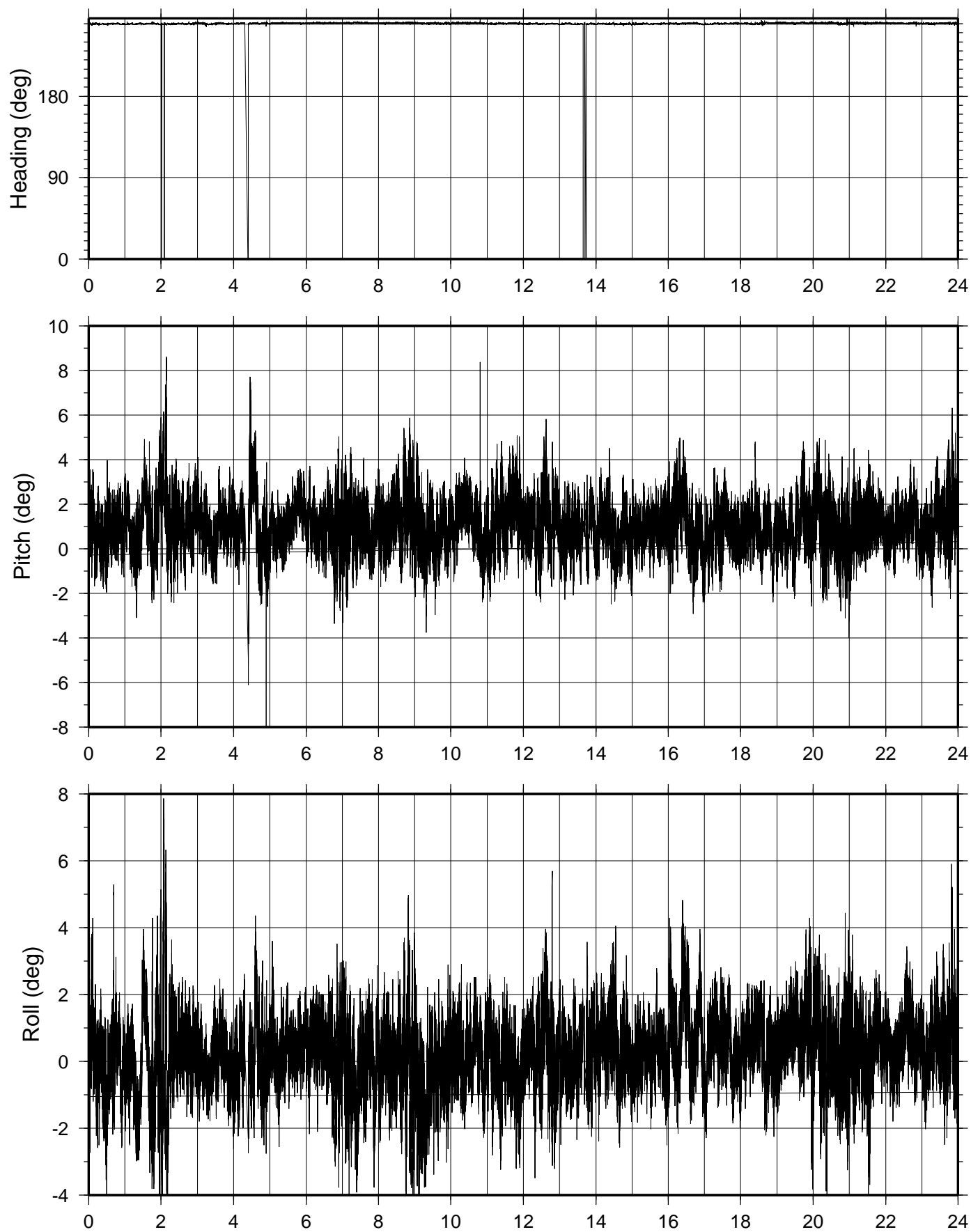




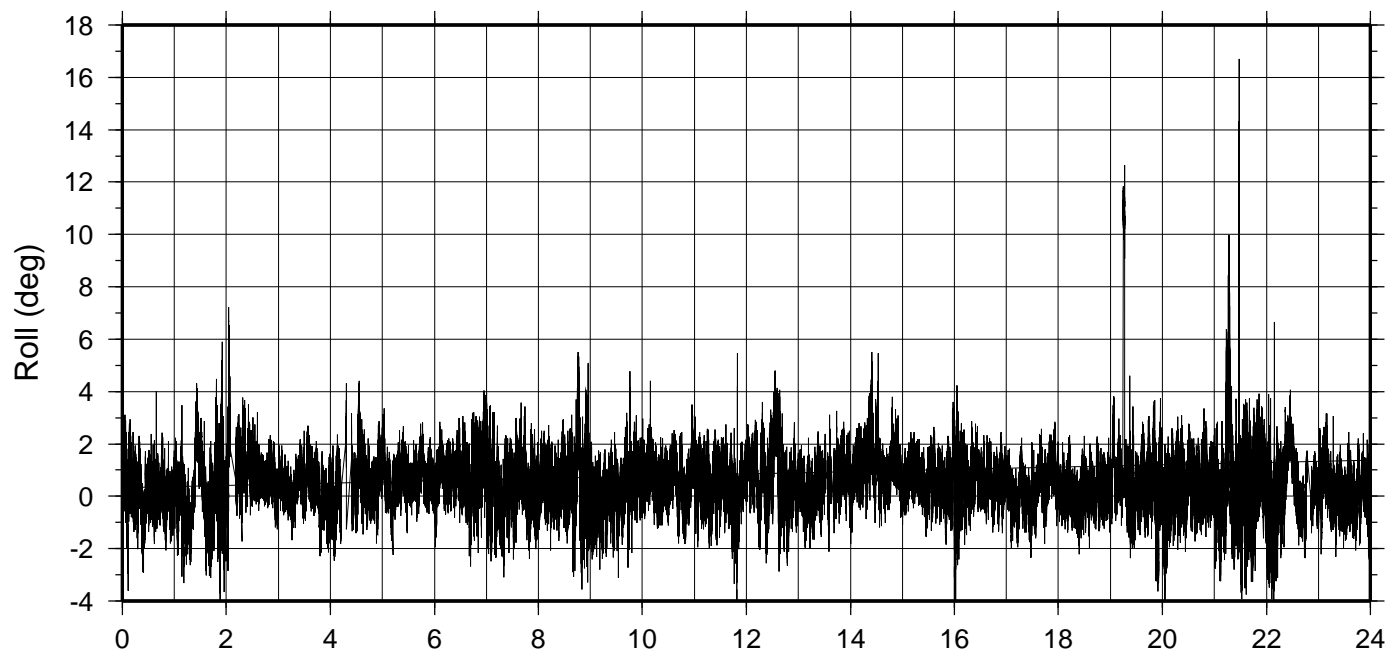
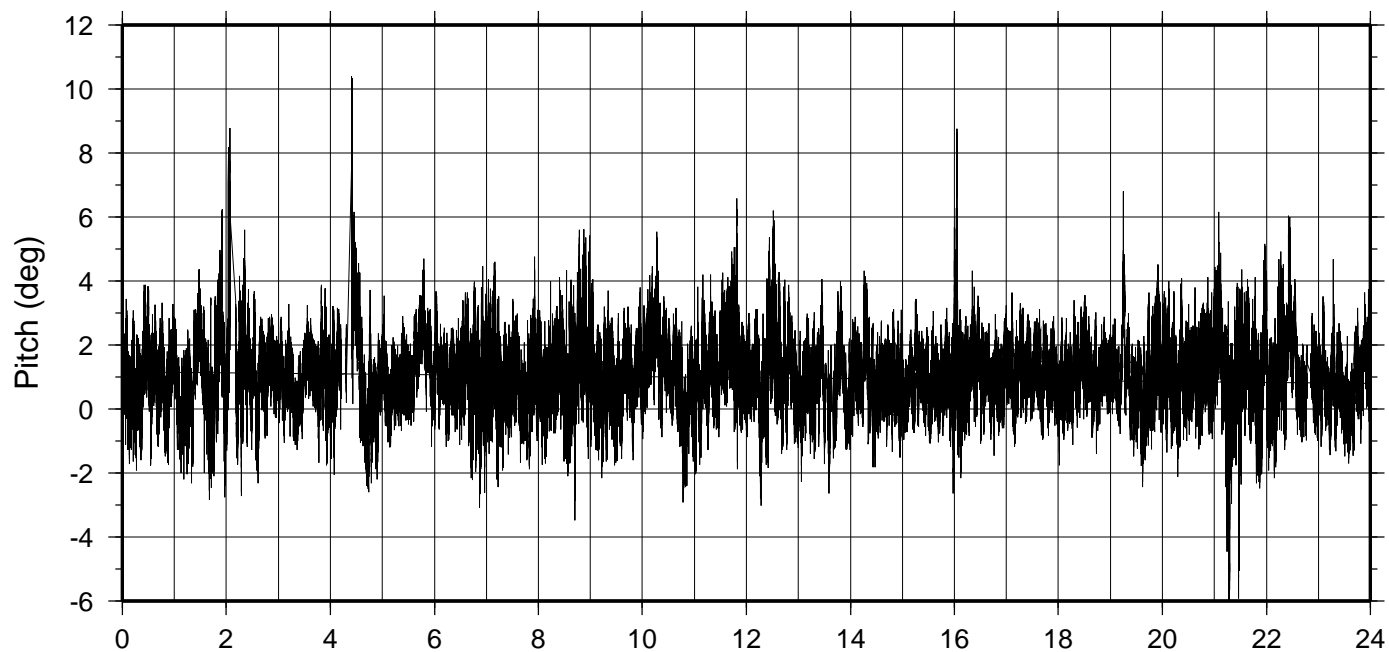
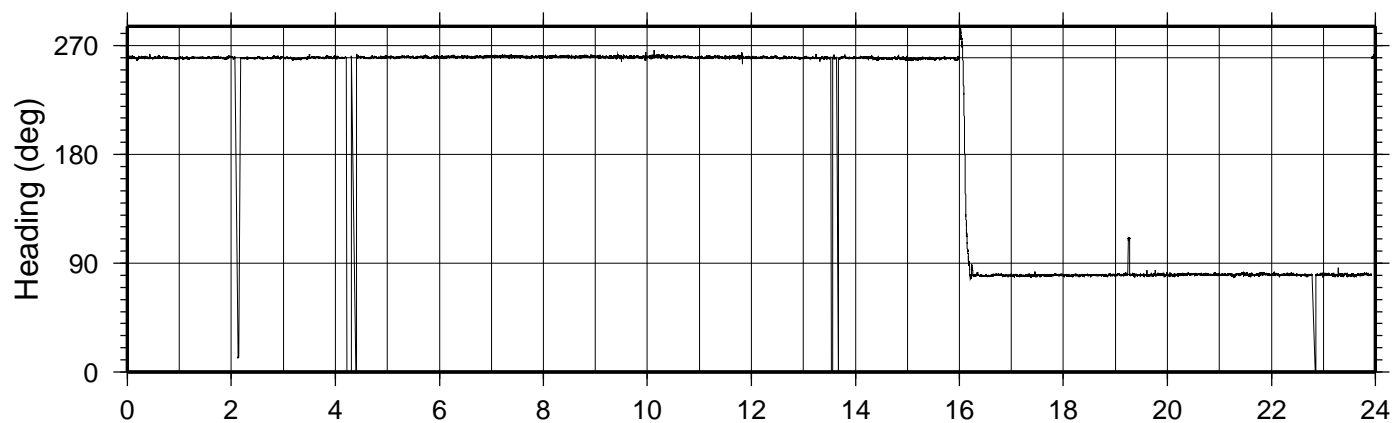
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003nov06.1



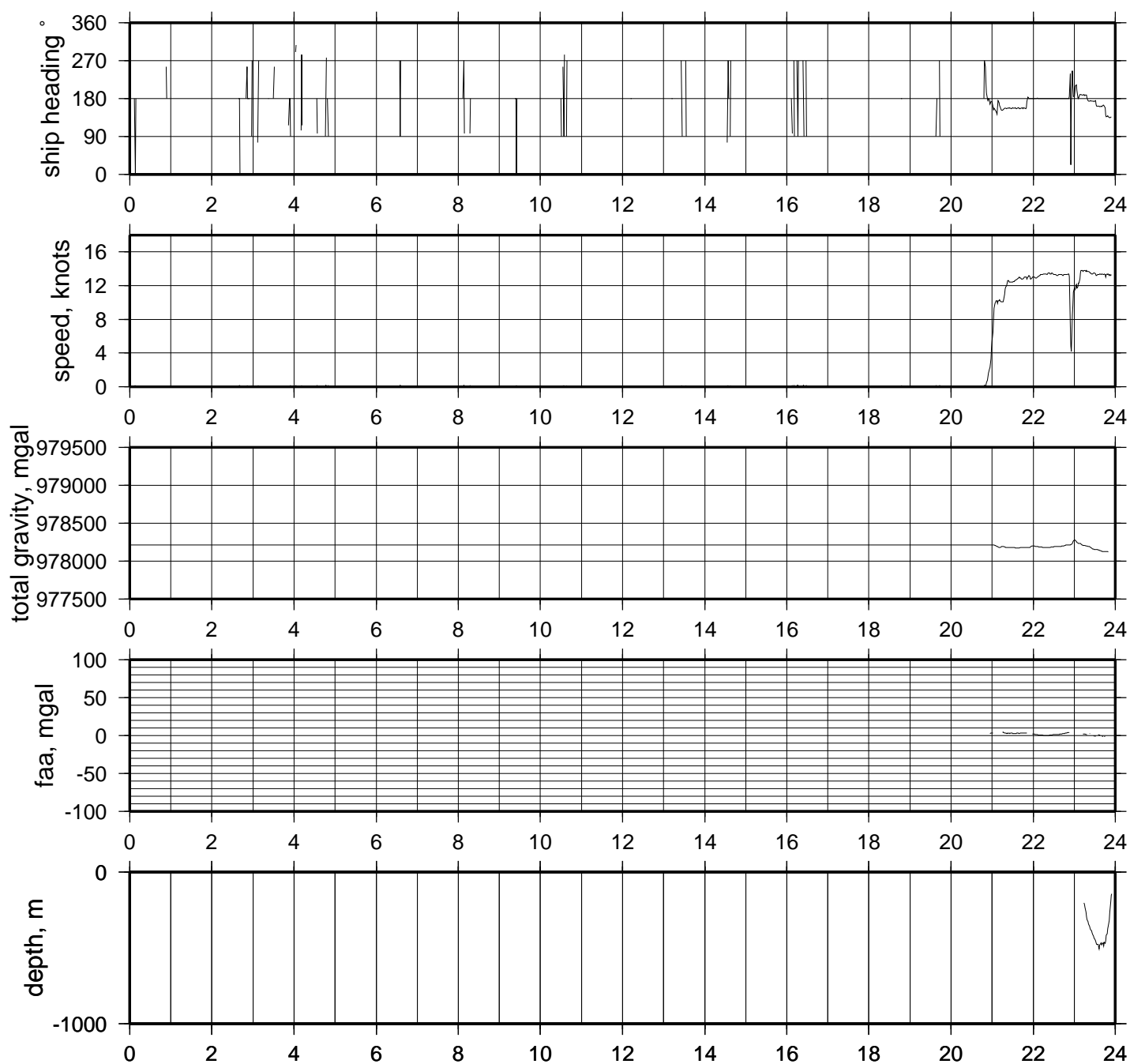
# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003nov07



# Ashtech GPS Heading/Pitch/Roll DANA02RR 2003nov08

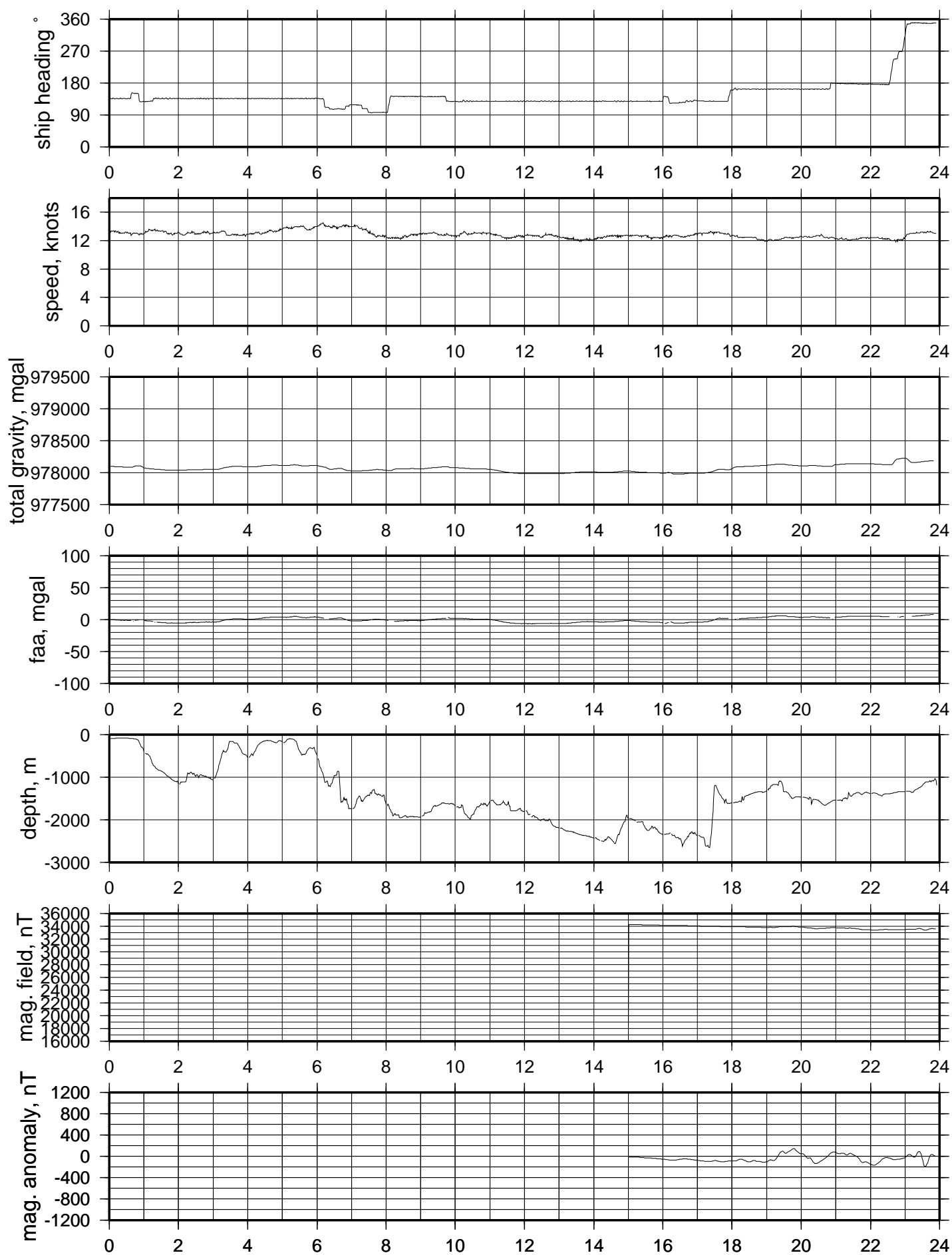


# U/W data DANA02RR 2003oct10

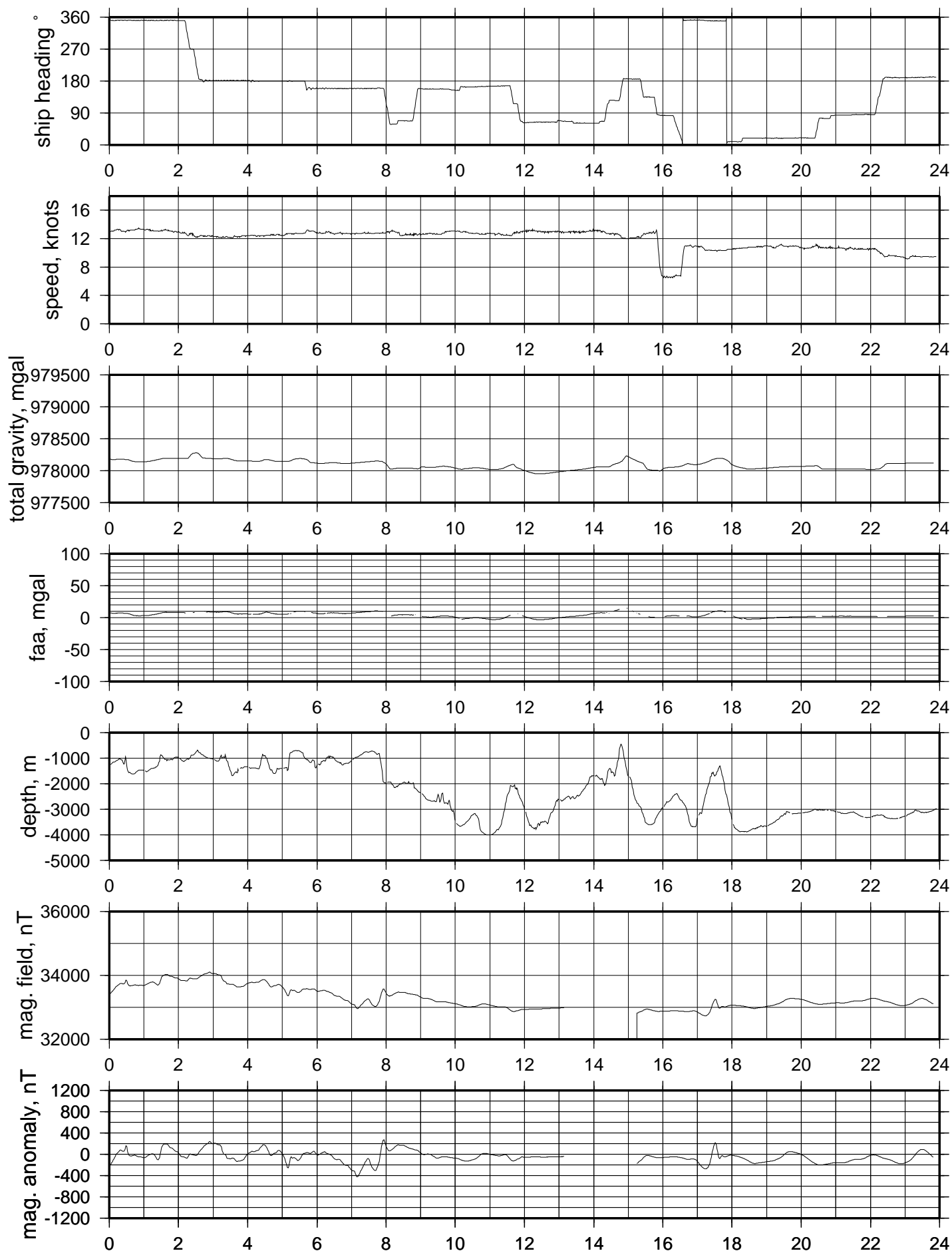


GMT 2003 Oct 11 01:05:59

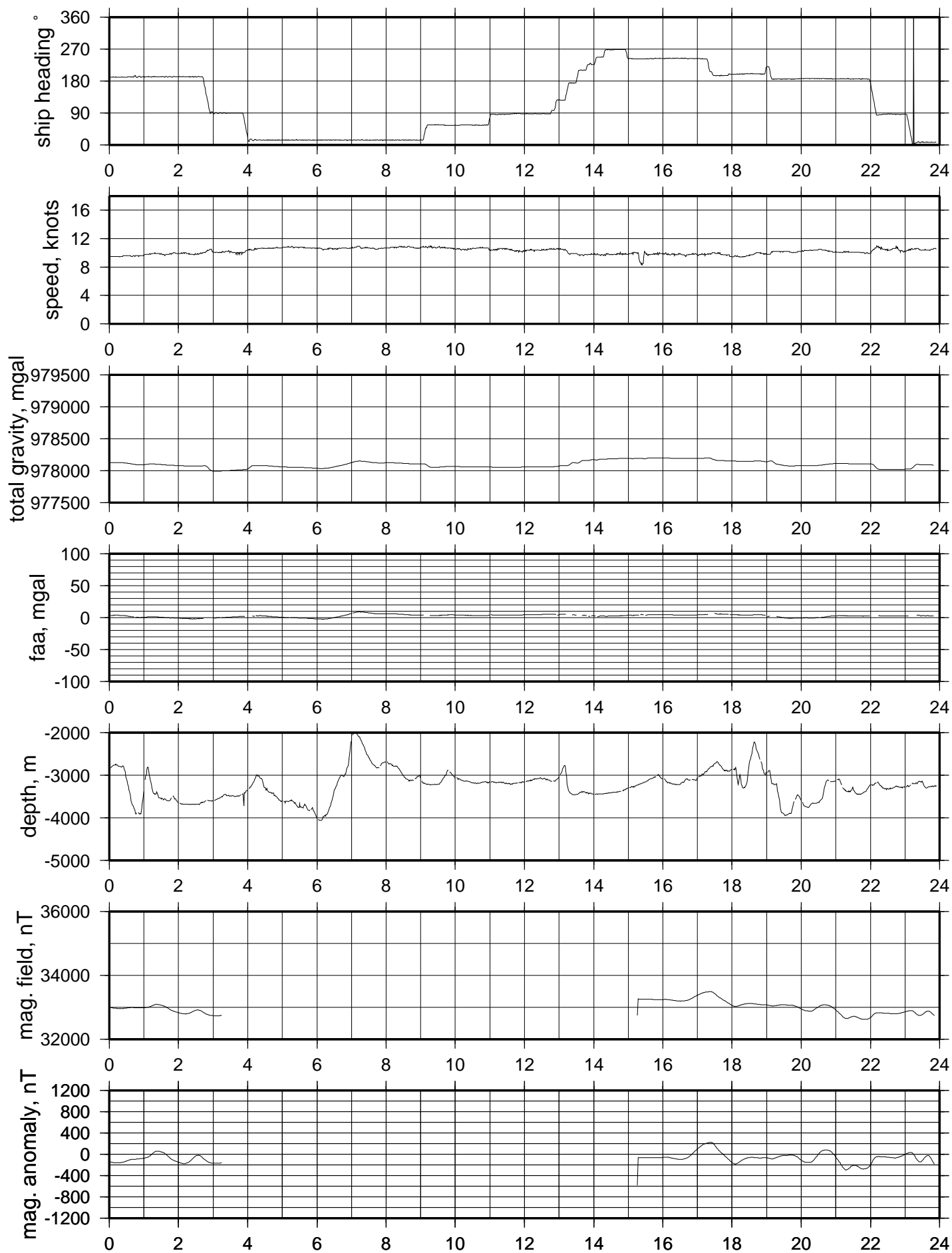
# U/W data DANA02RR 2003oct11



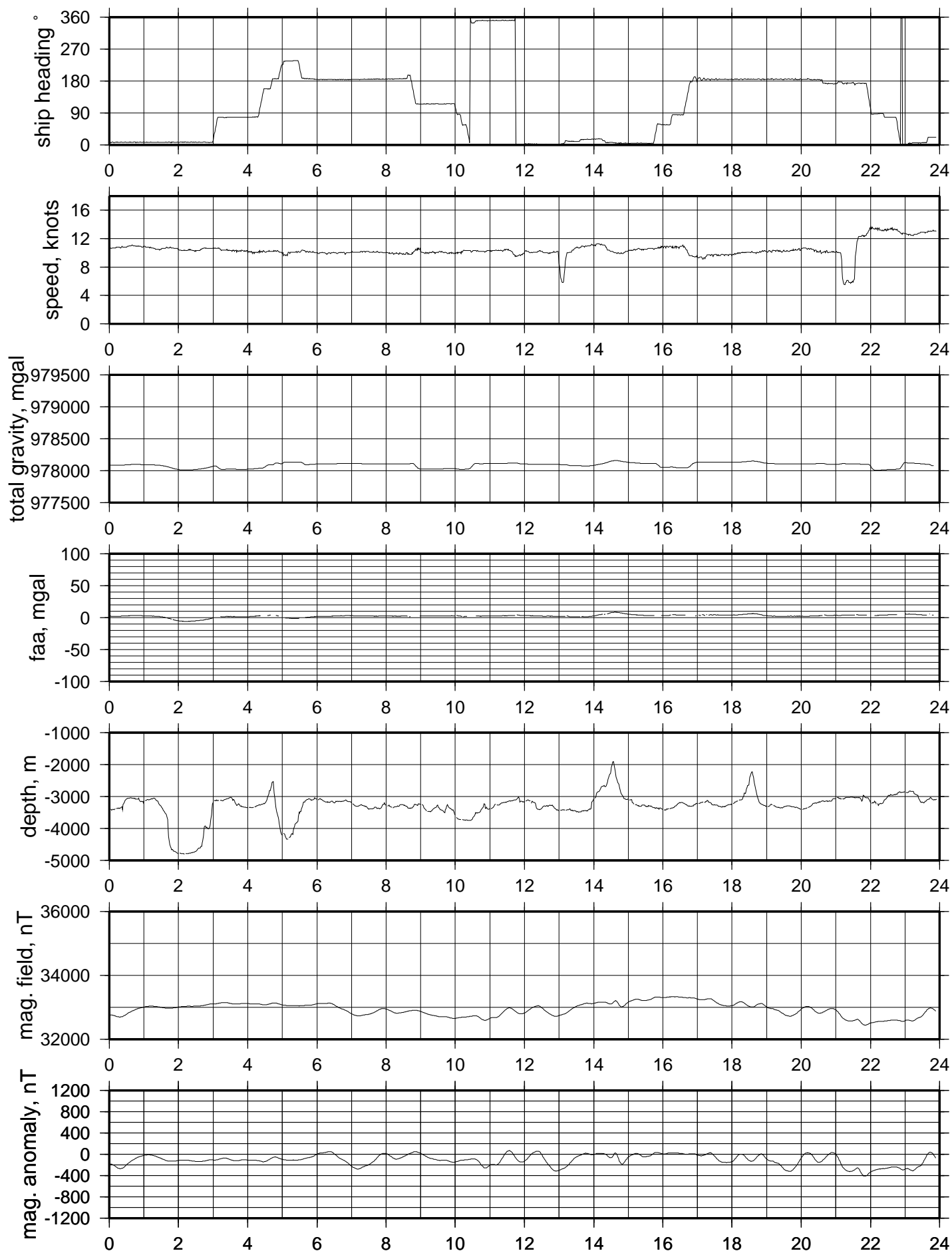
# U/W data DANA02RR 2003oct12



# U/W data DANA02RR 2003oct13

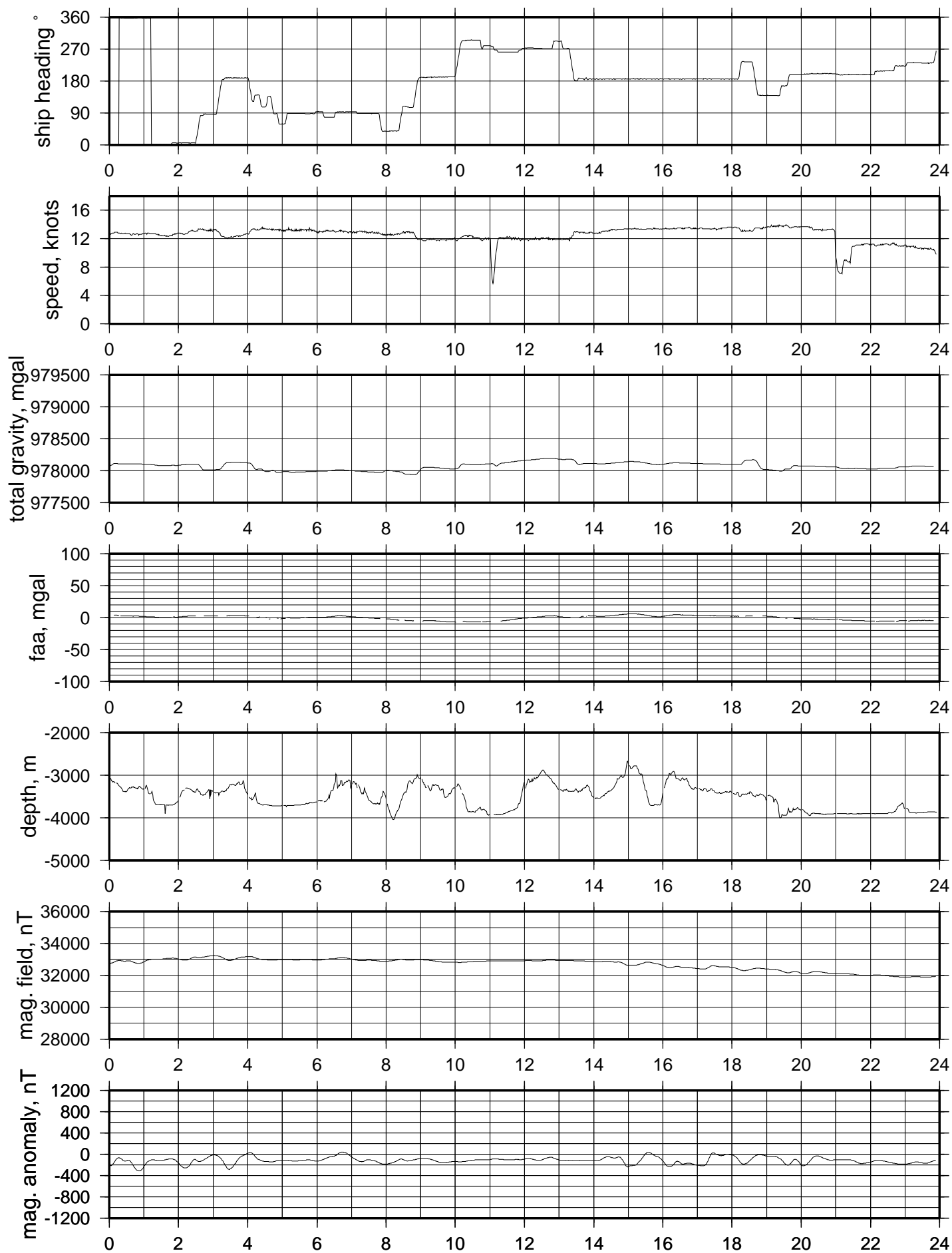


# U/W data DANA02RR 2003oct14

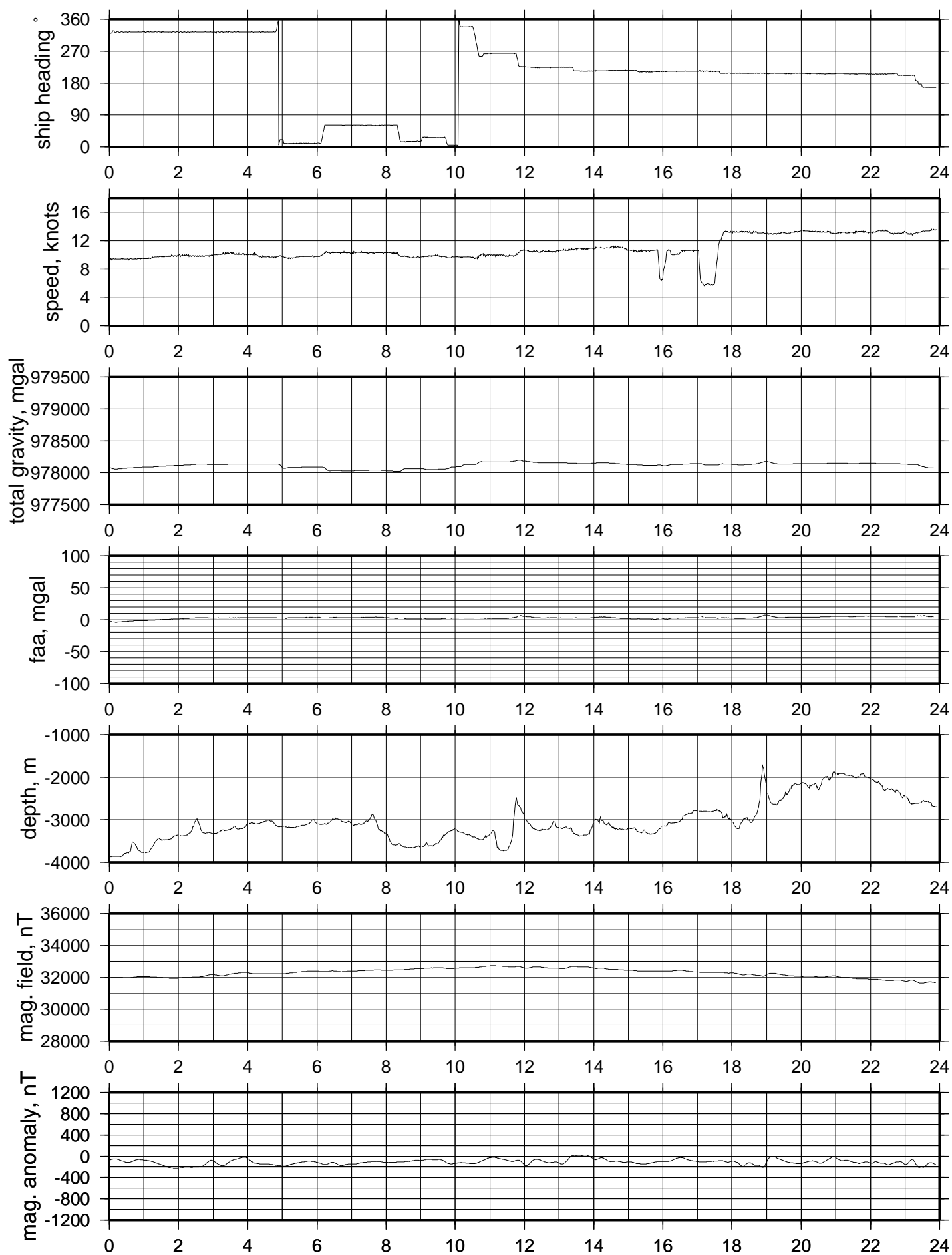




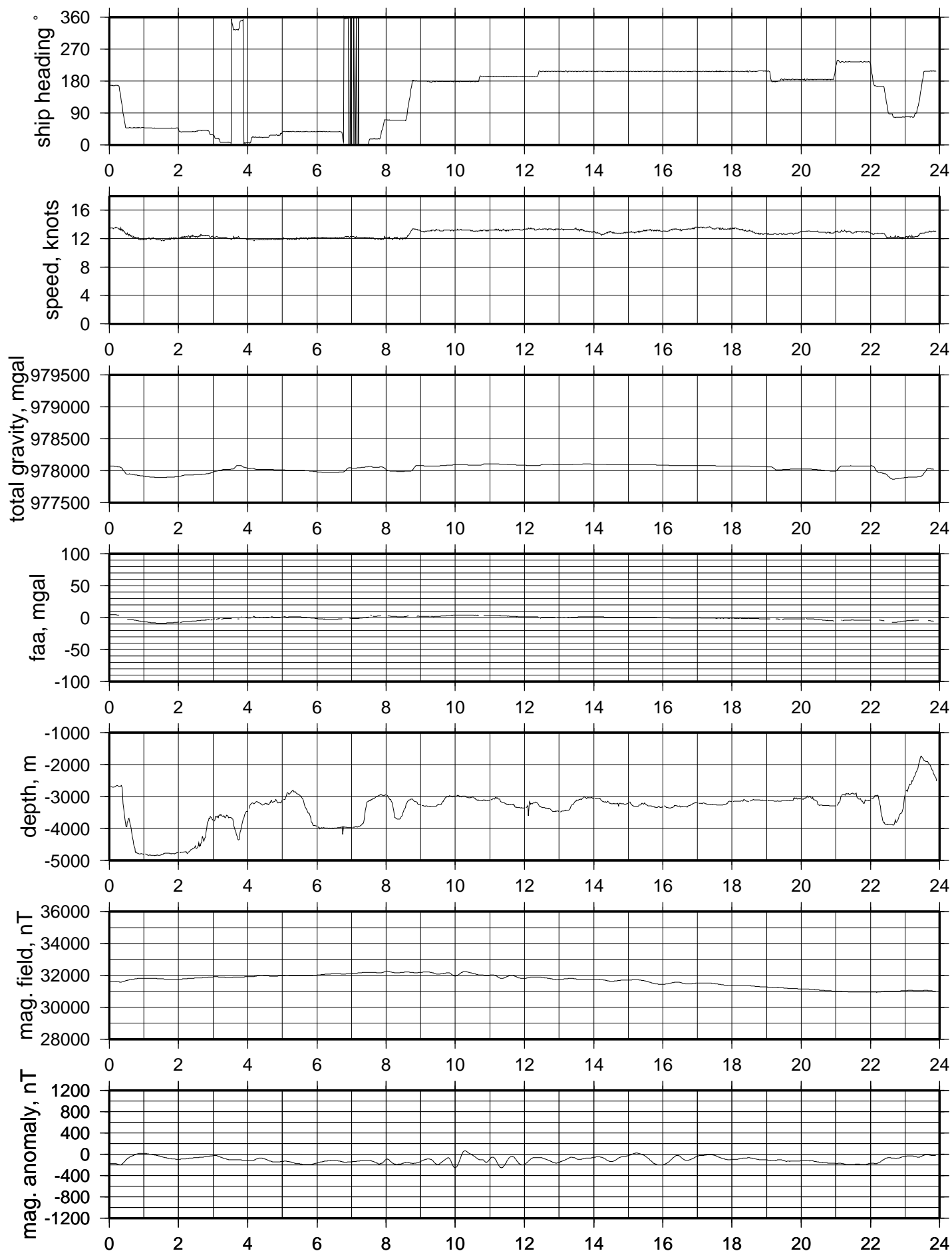
# U/W data DANA02RR 2003oct15



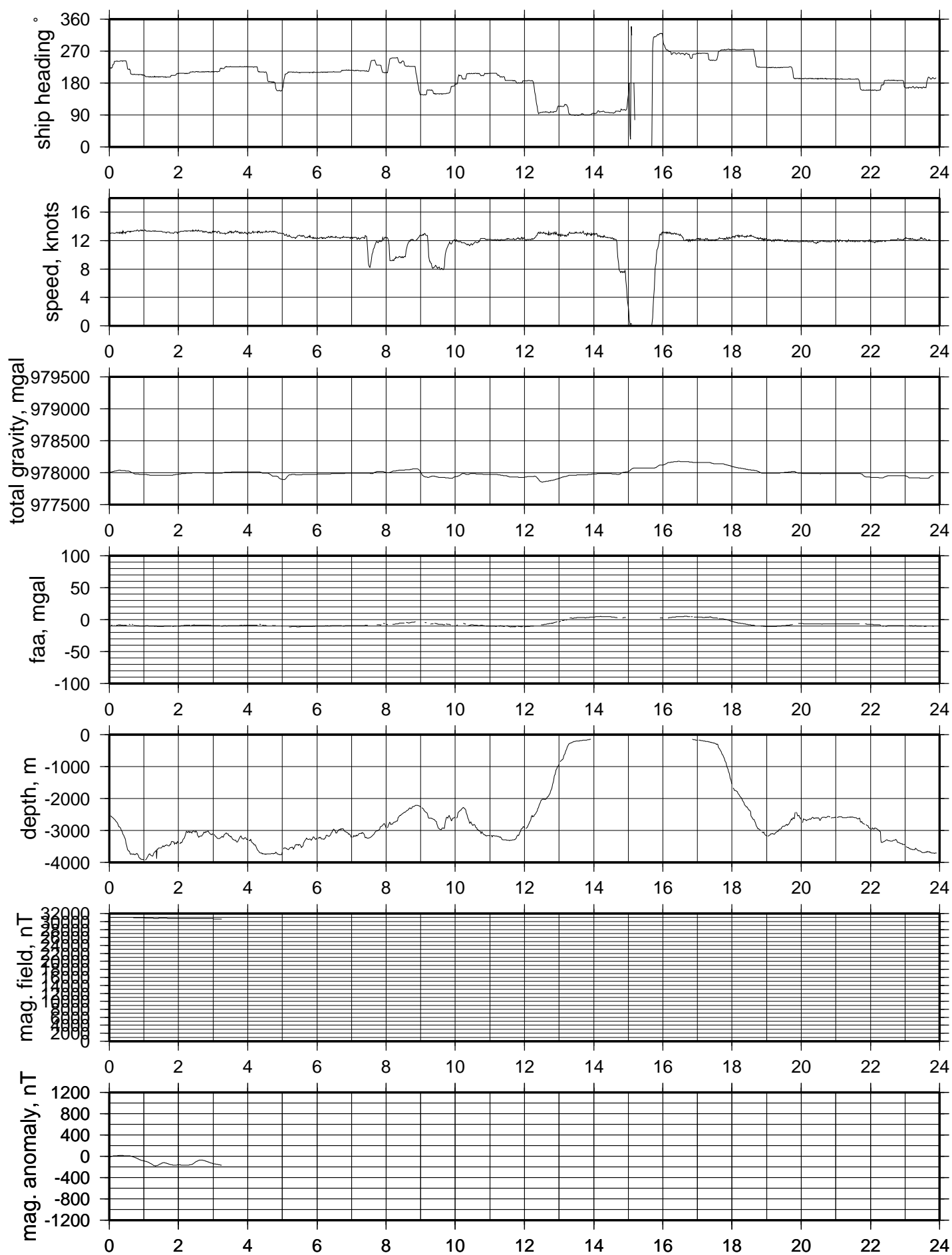
# U/W data DANA02RR 2003oct16



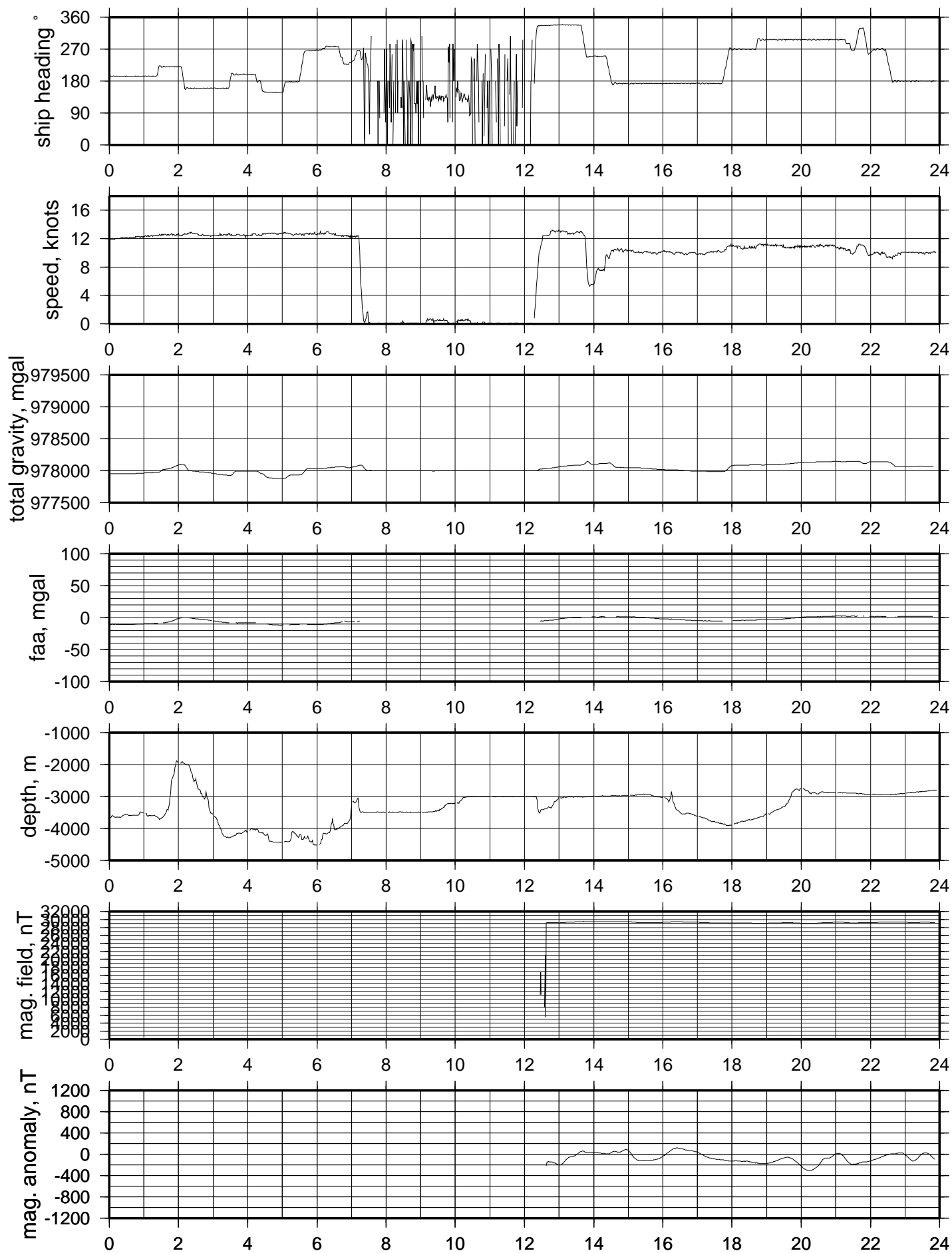
# U/W data DANA02RR 2003oct17



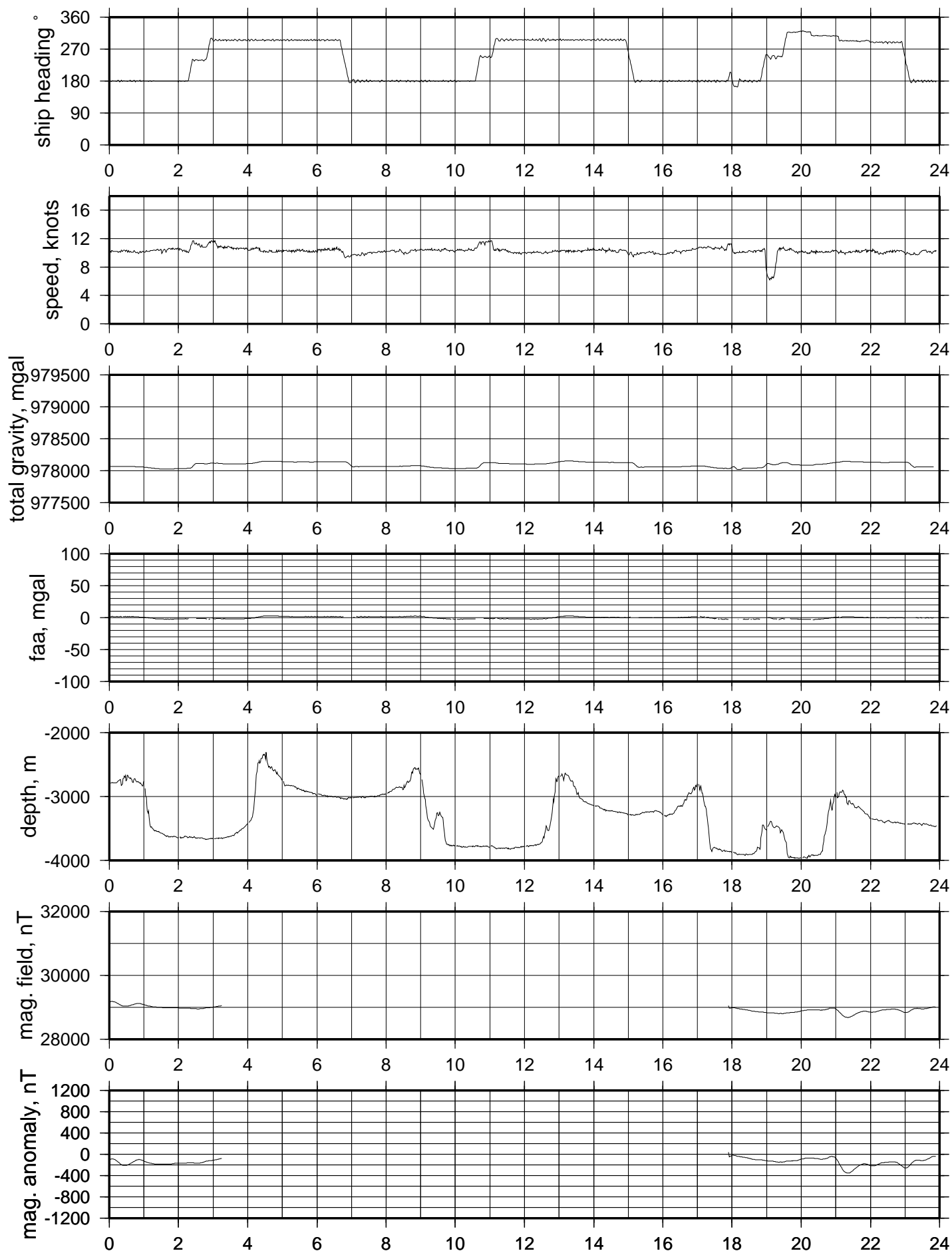
# U/W data DANA02RR 2003oct18



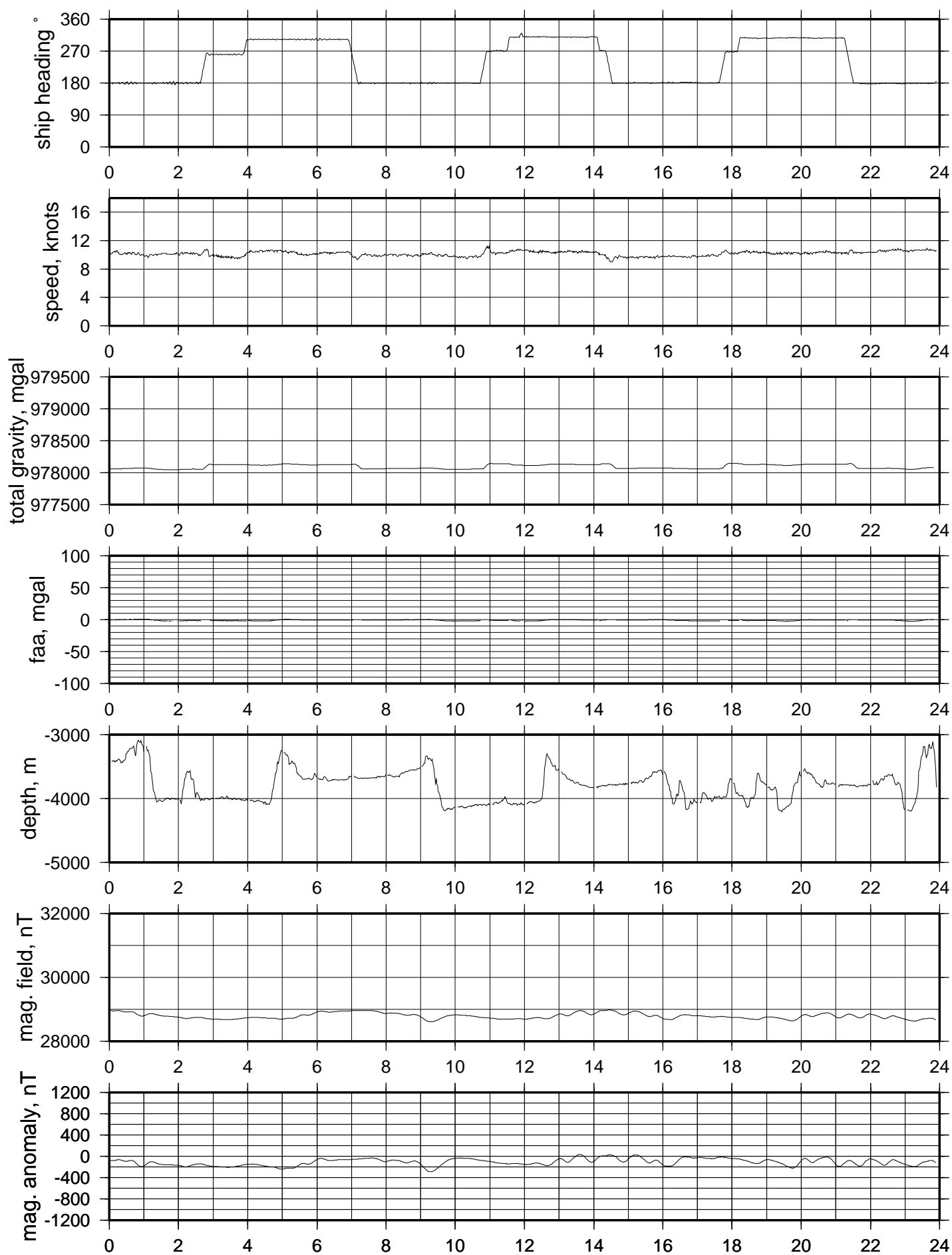
# U/W data DANA02RR 2003oct19



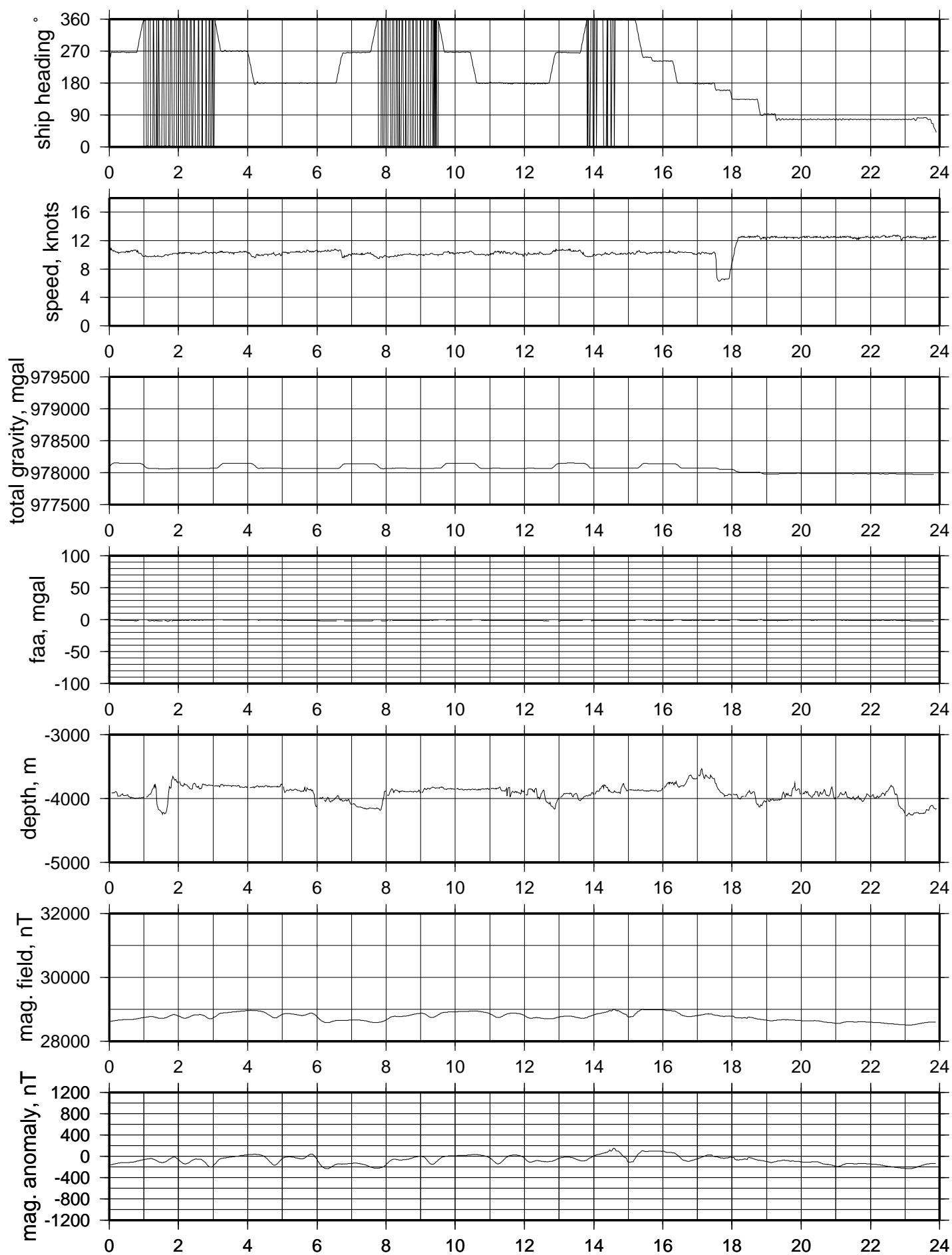
# U/W data DANA02RR 2003oct20



# U/W data DANA02RR 2003oct21

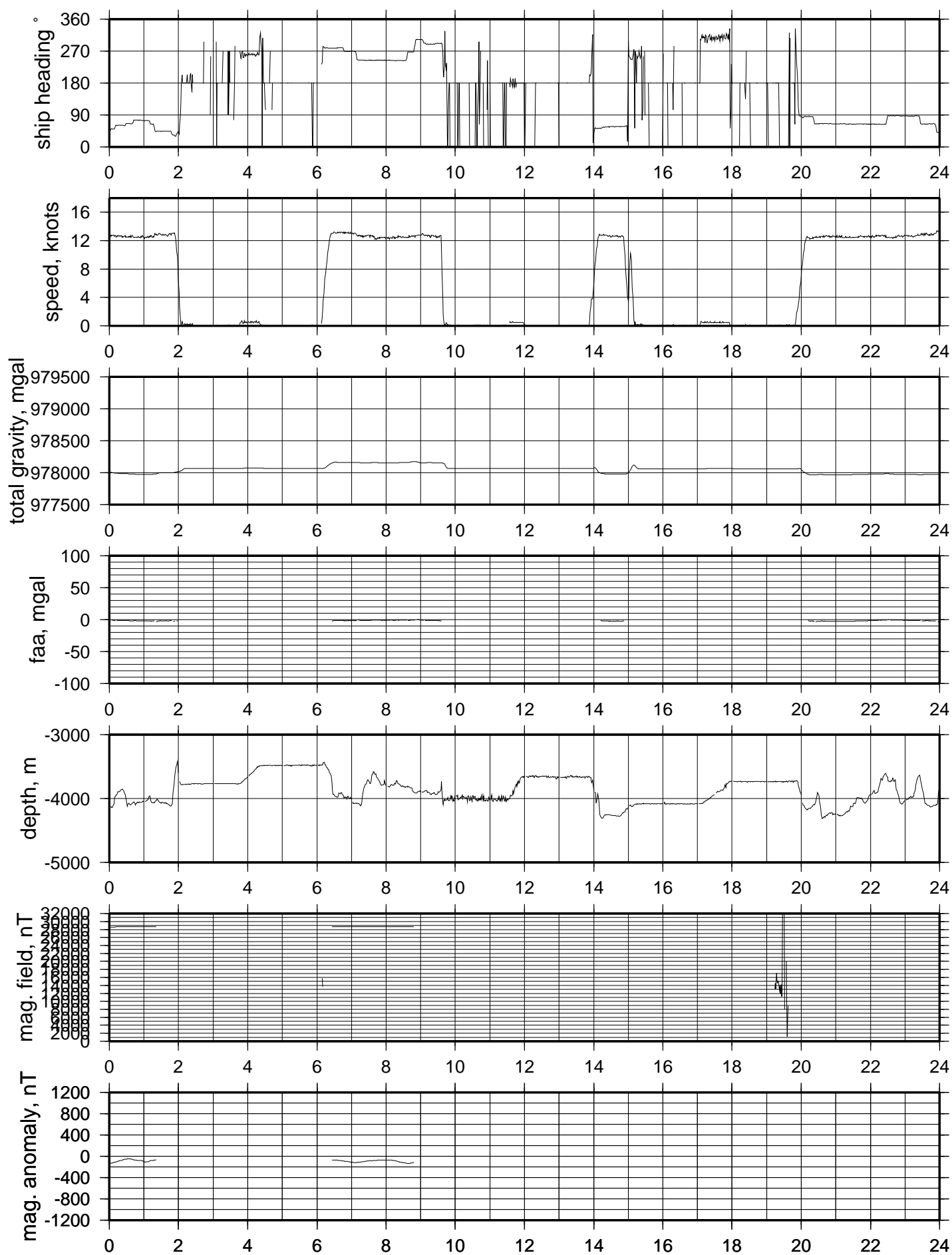


# U/W data DANA02RR 2003oct22

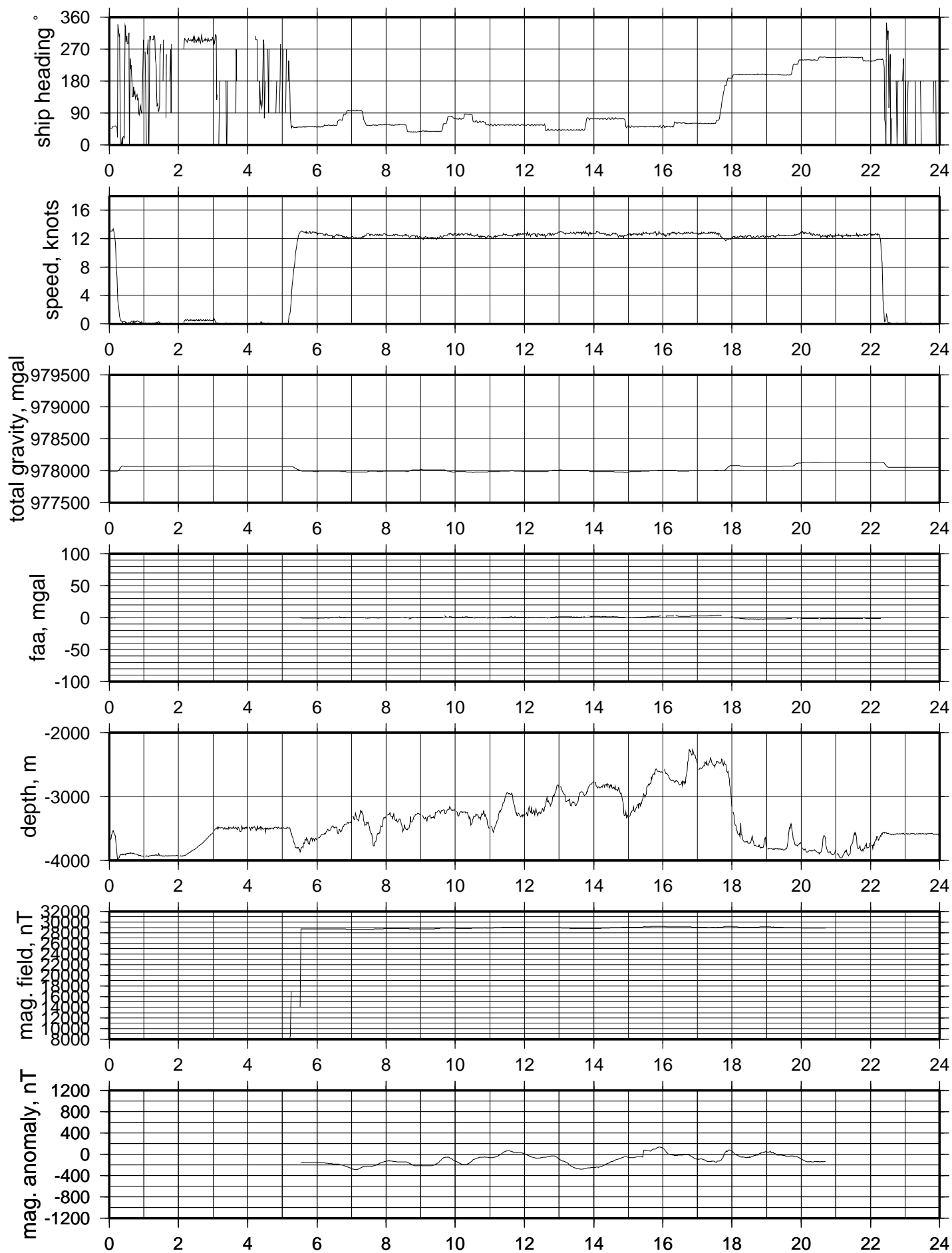




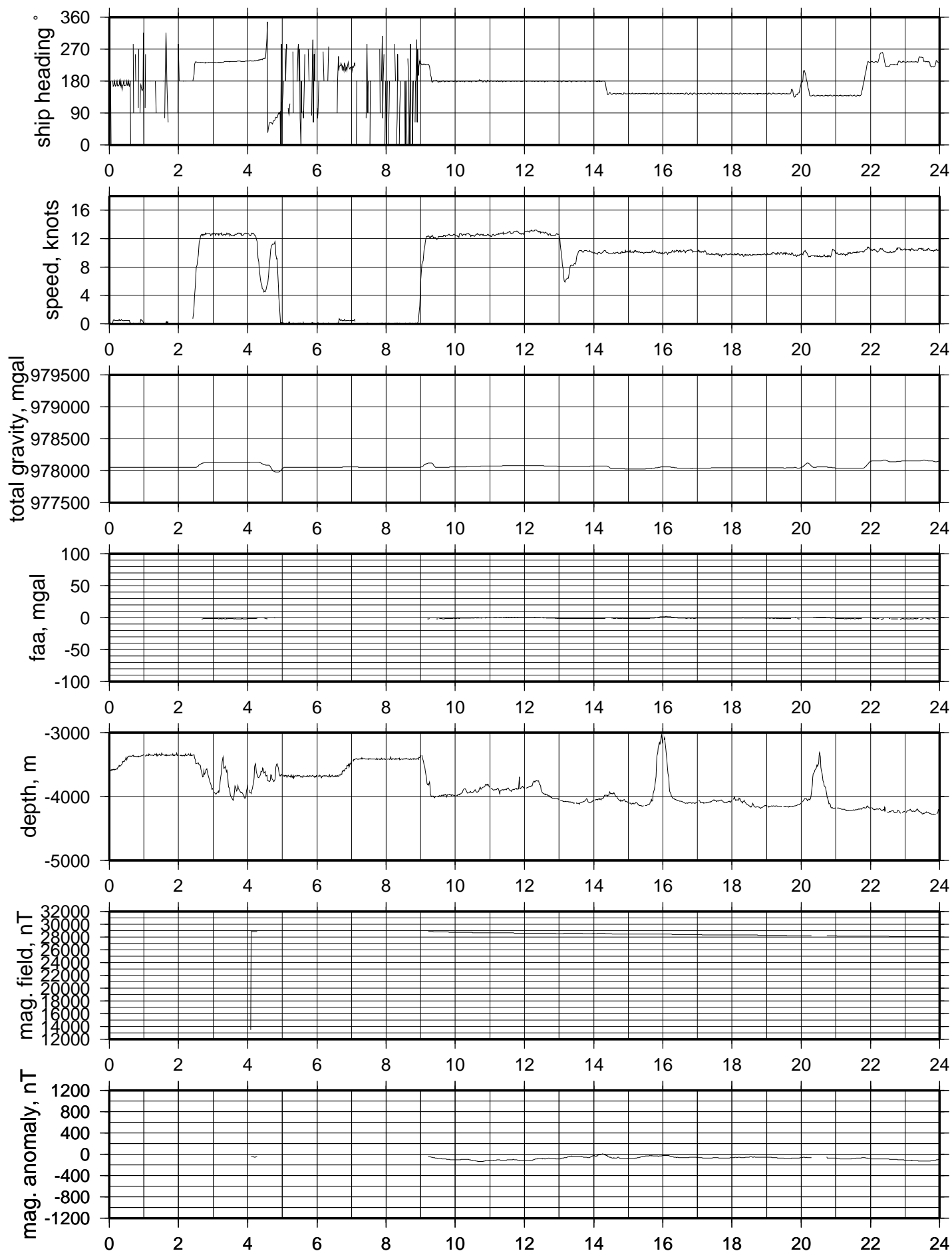
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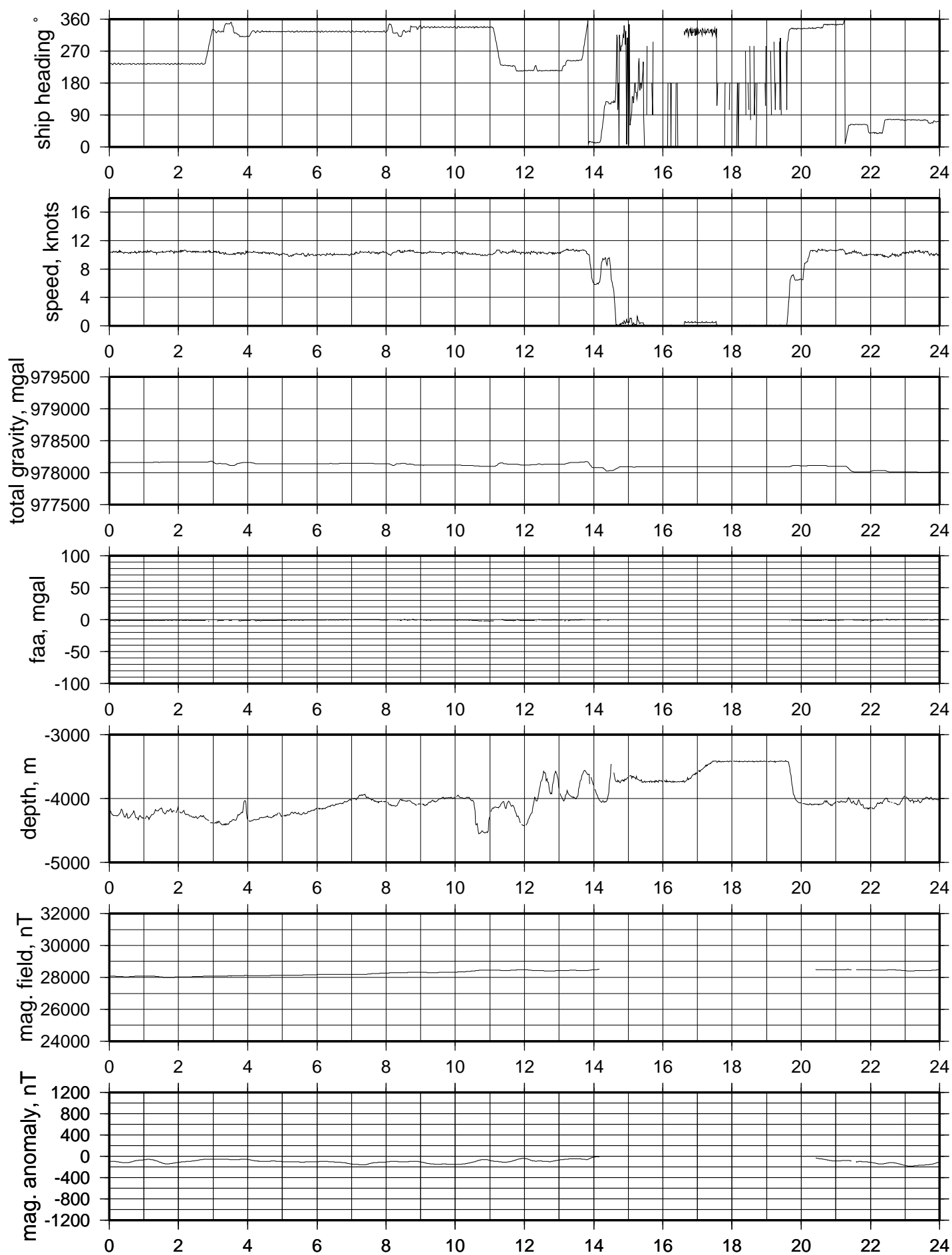
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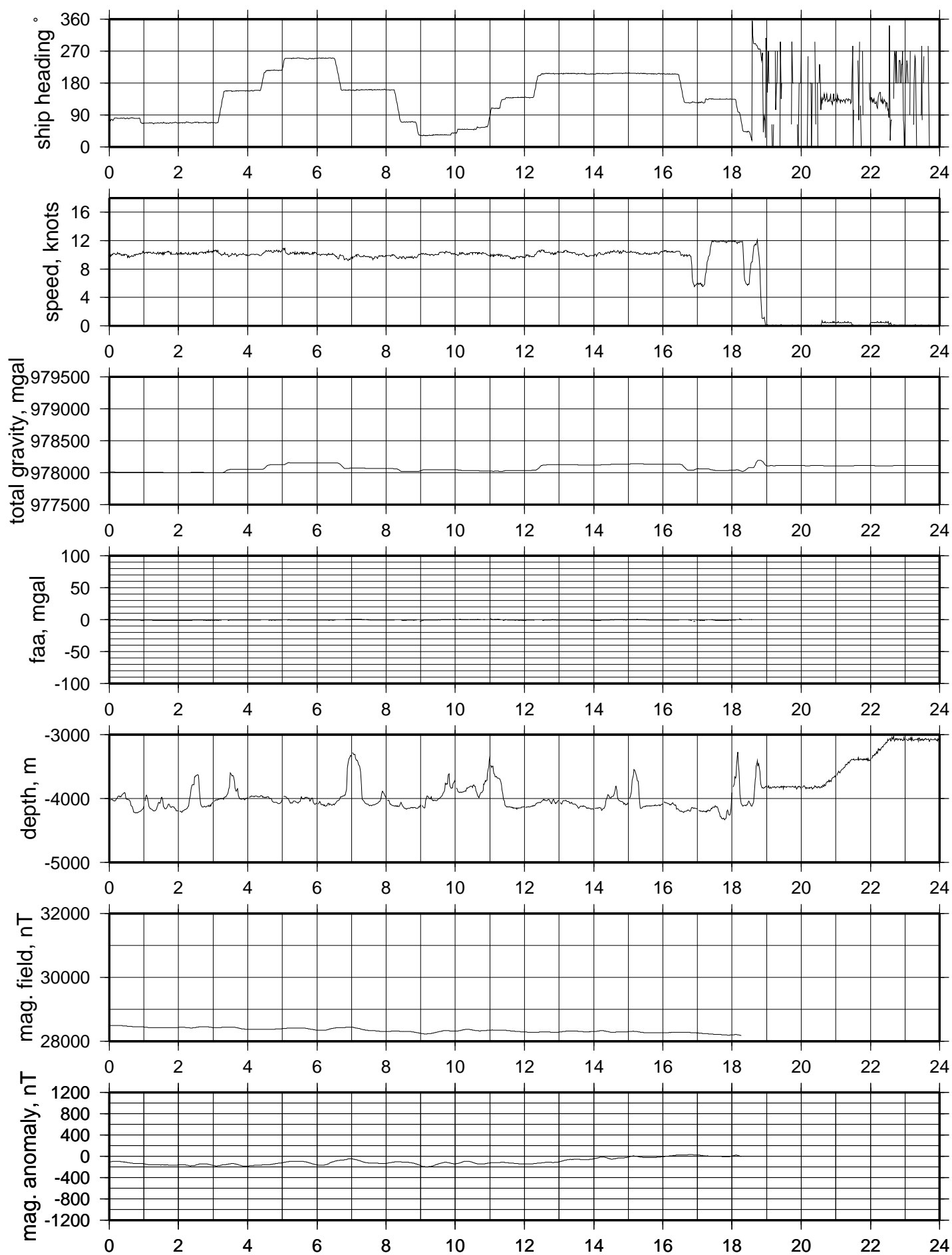
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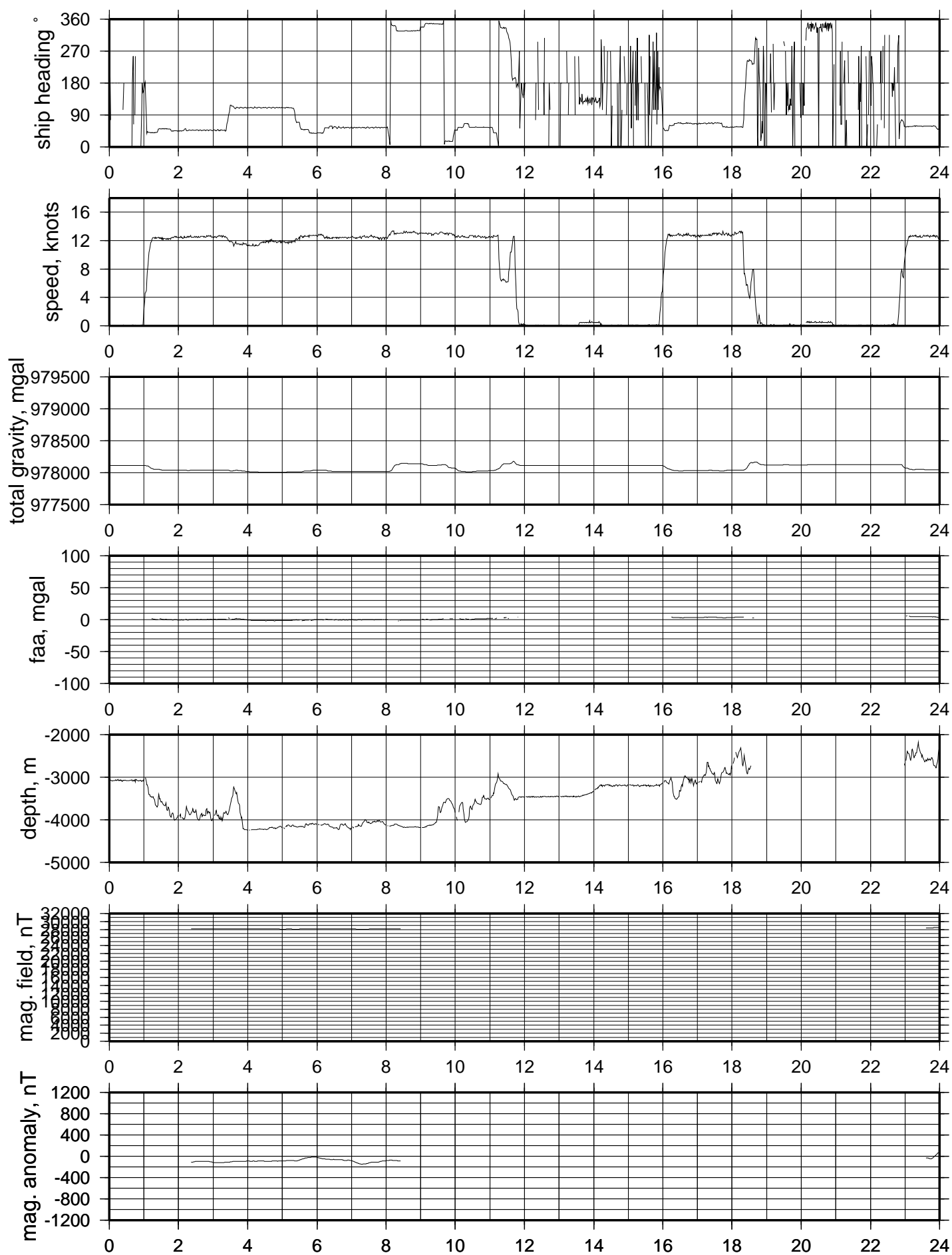
# U/W data DANA02RR 2003oct26



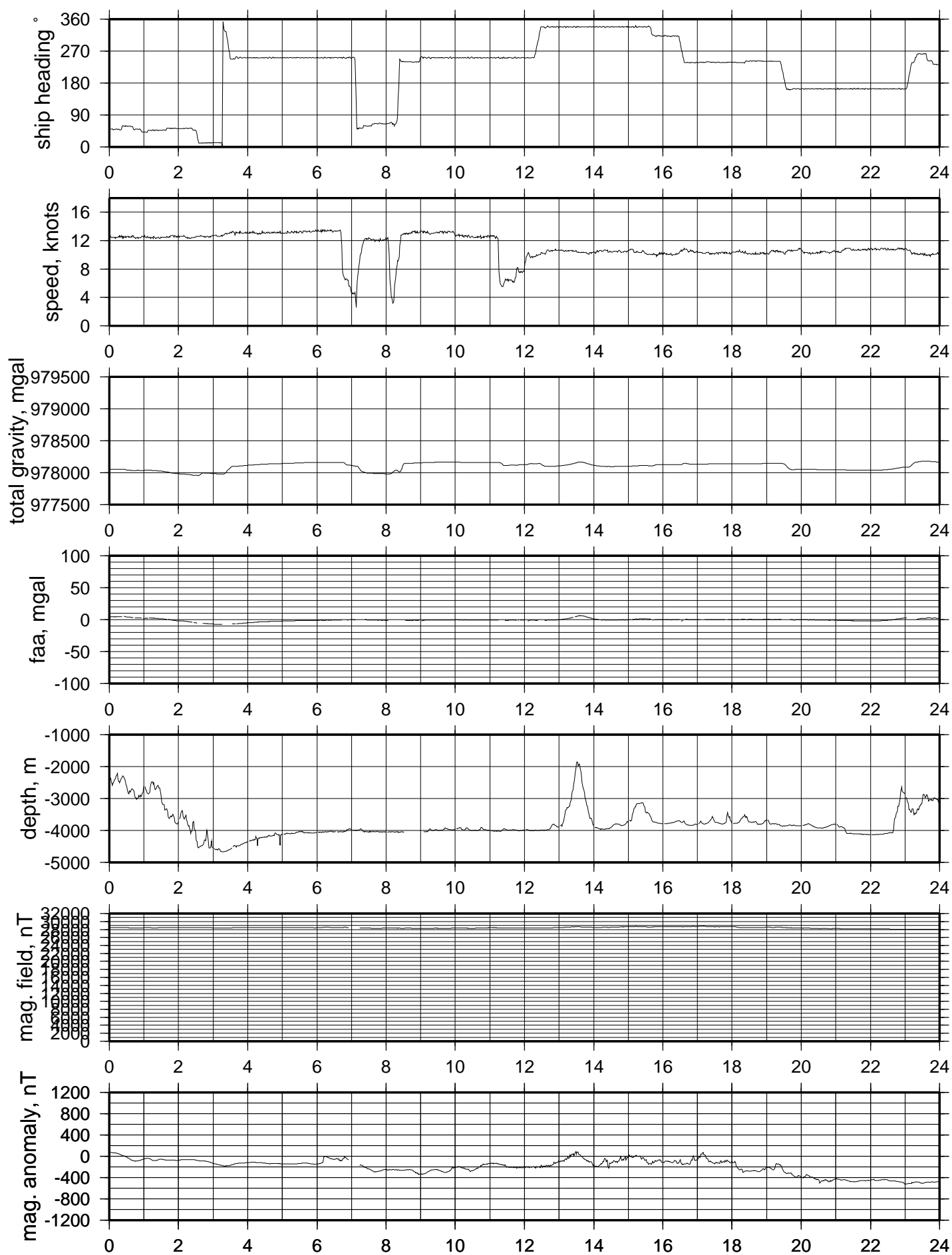
# U/W data DANA02RR 2003oct27



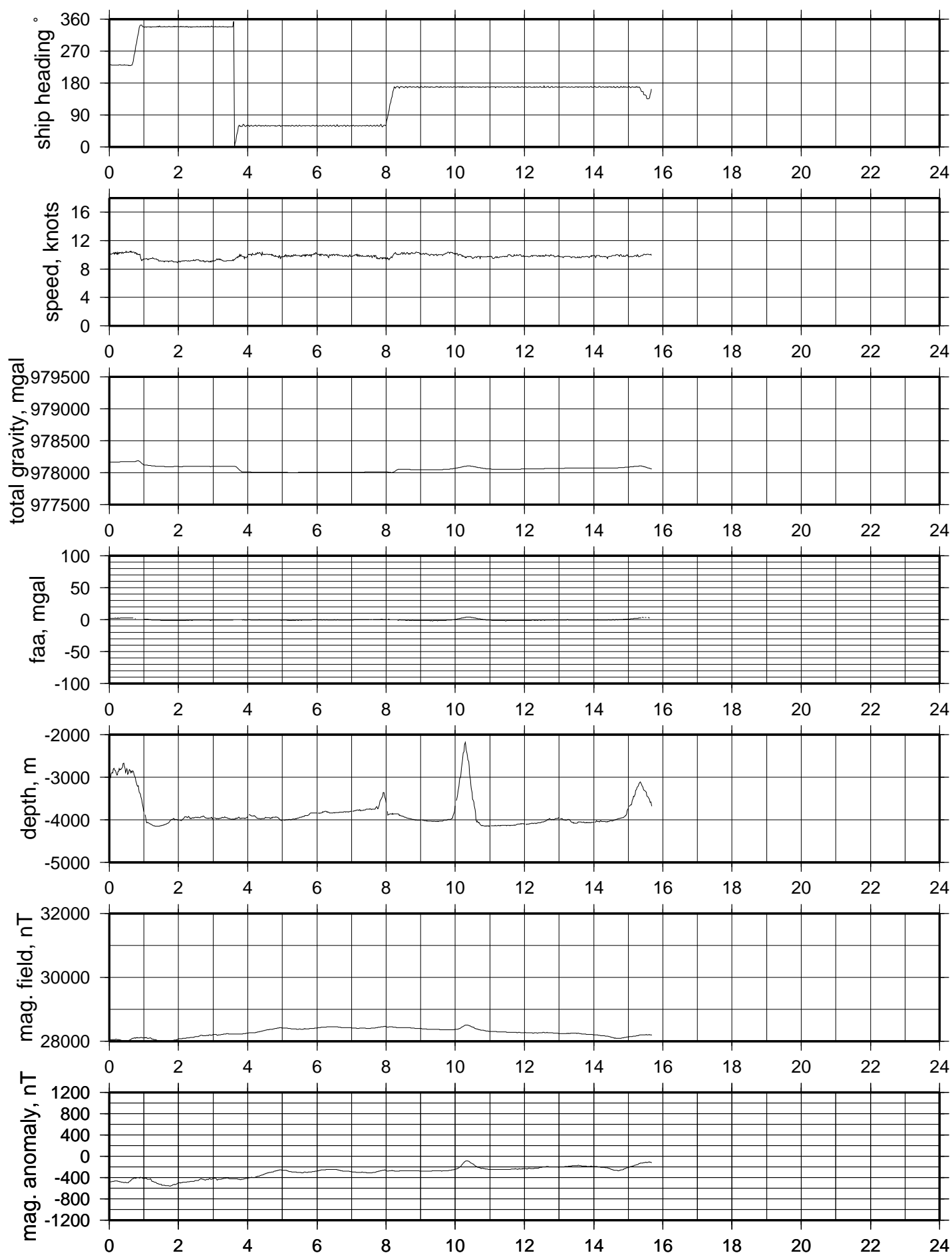
# U/W data DANA02RR 2003oct28



# U/W data DANA02RR 2003oct29

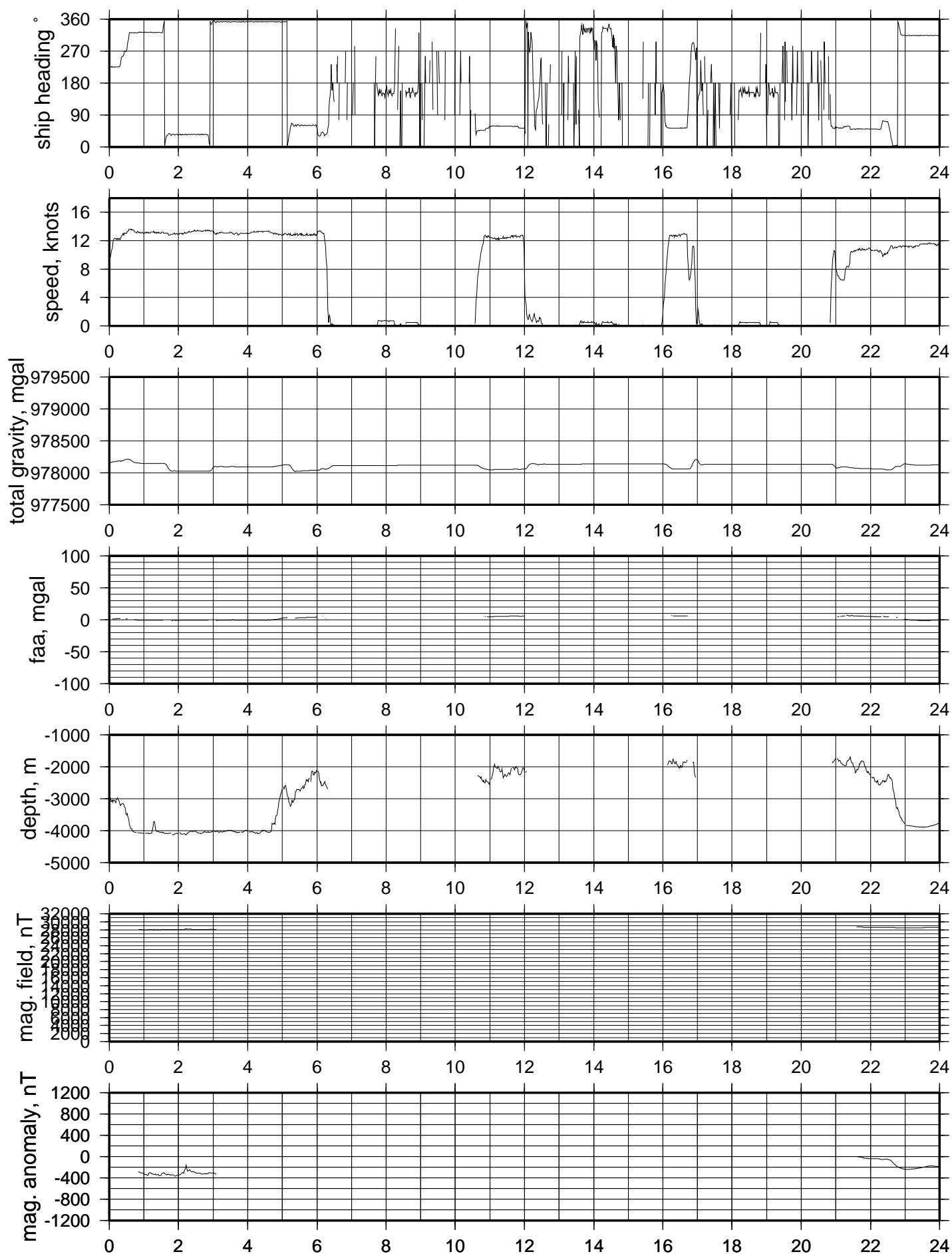


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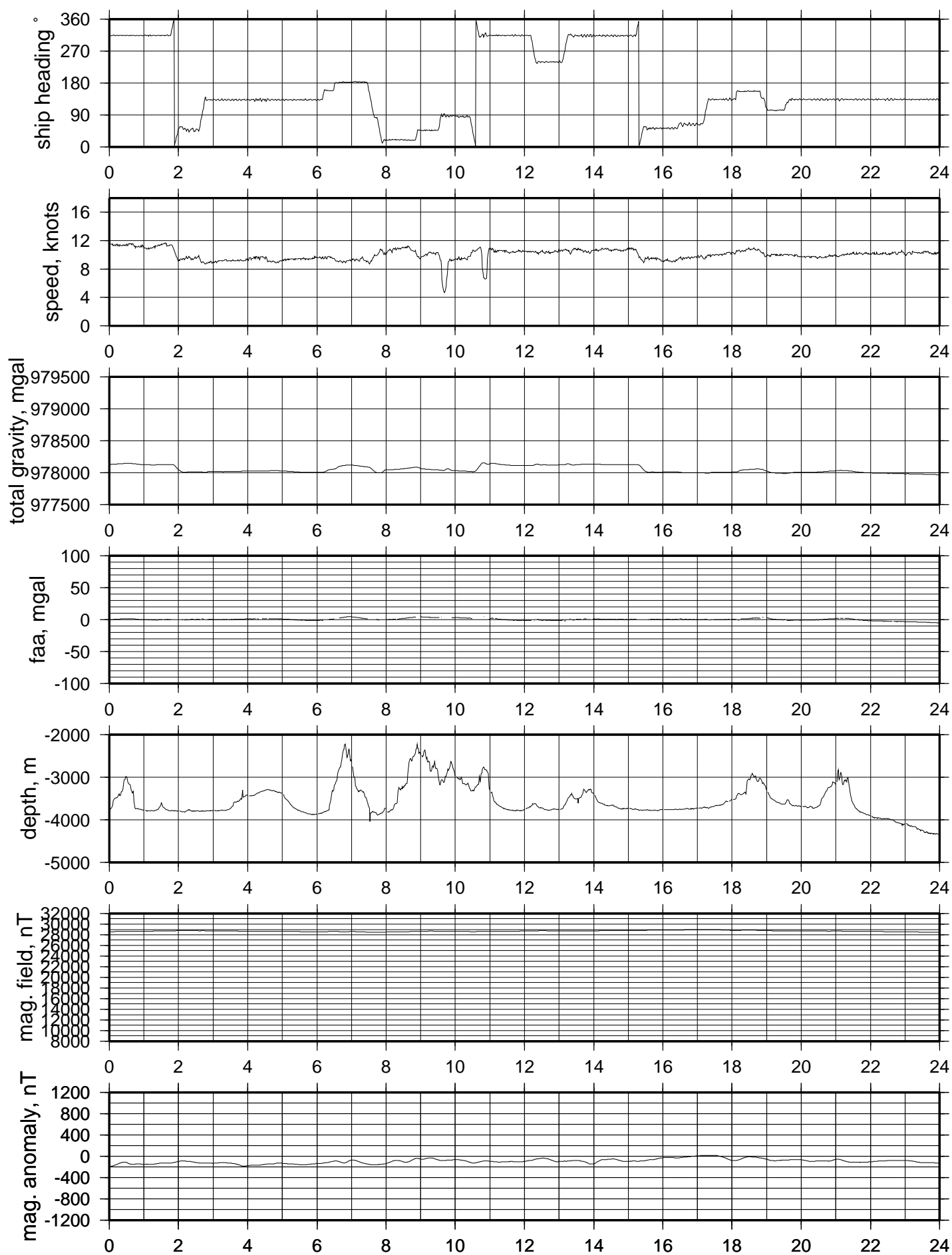




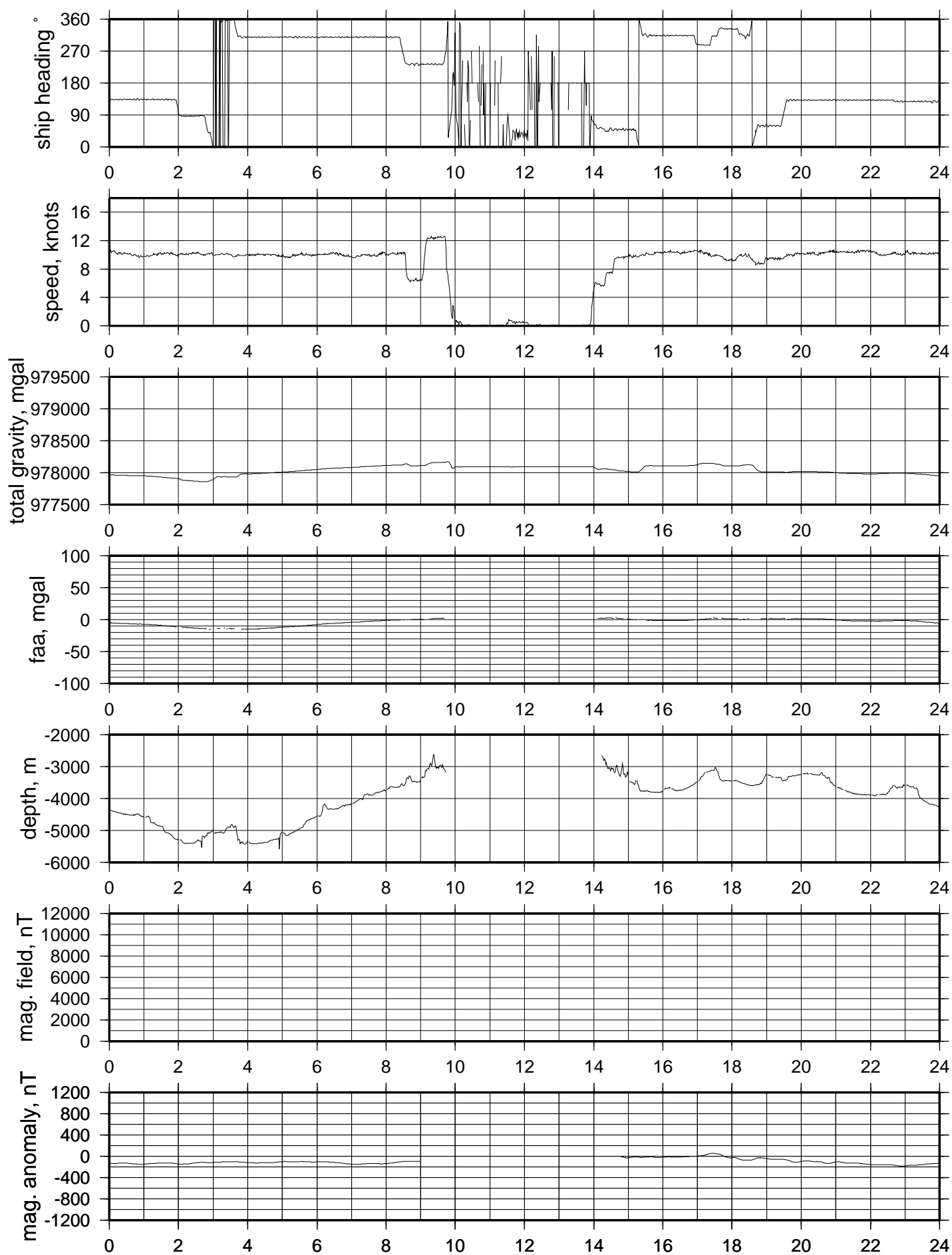
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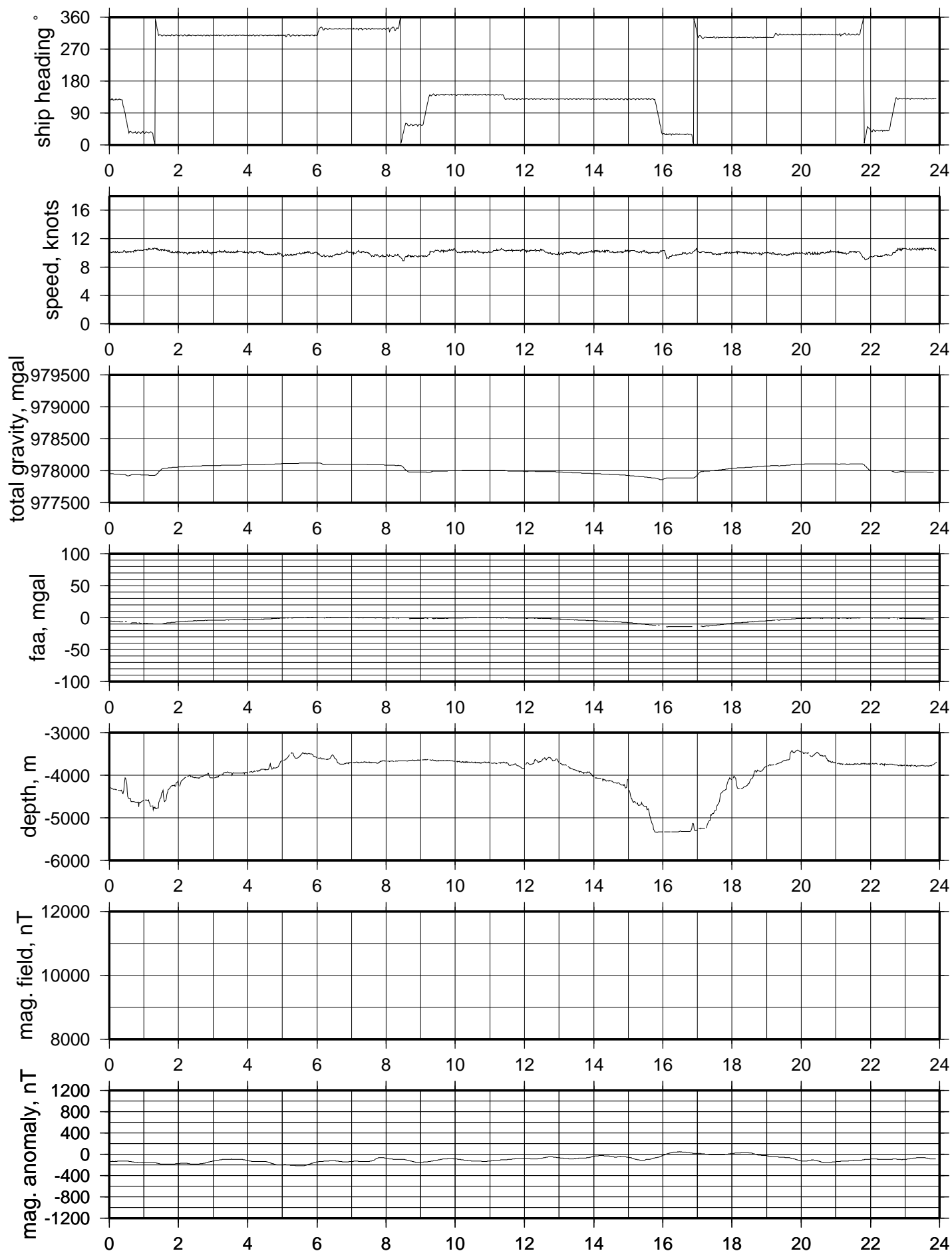
# U/W data DANA02RR 2003nov01



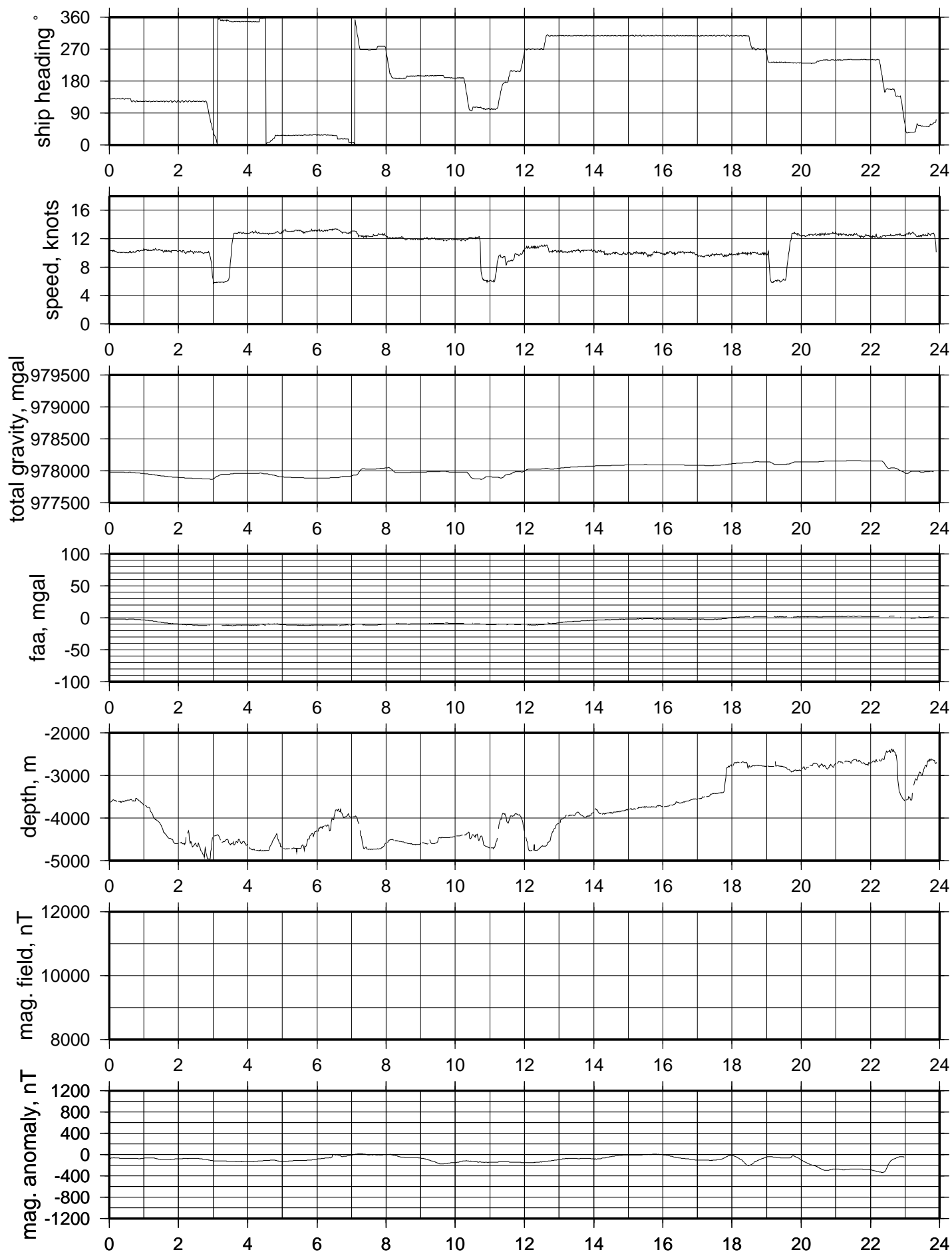
# U/W data DANA02RR 2003nov02



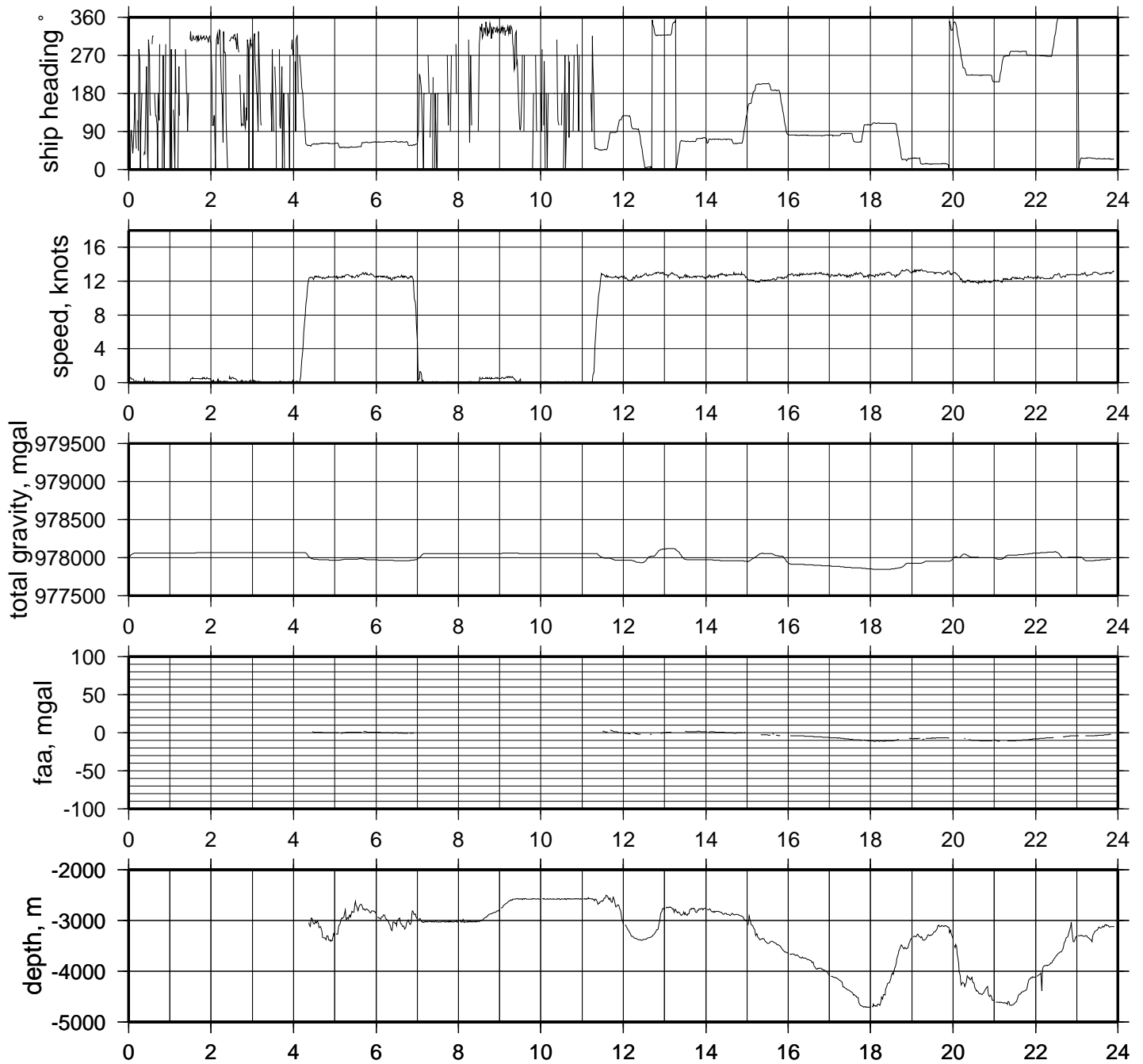
# U/W data DANA02RR 2003nov03



# U/W data DANA02RR 2003nov04

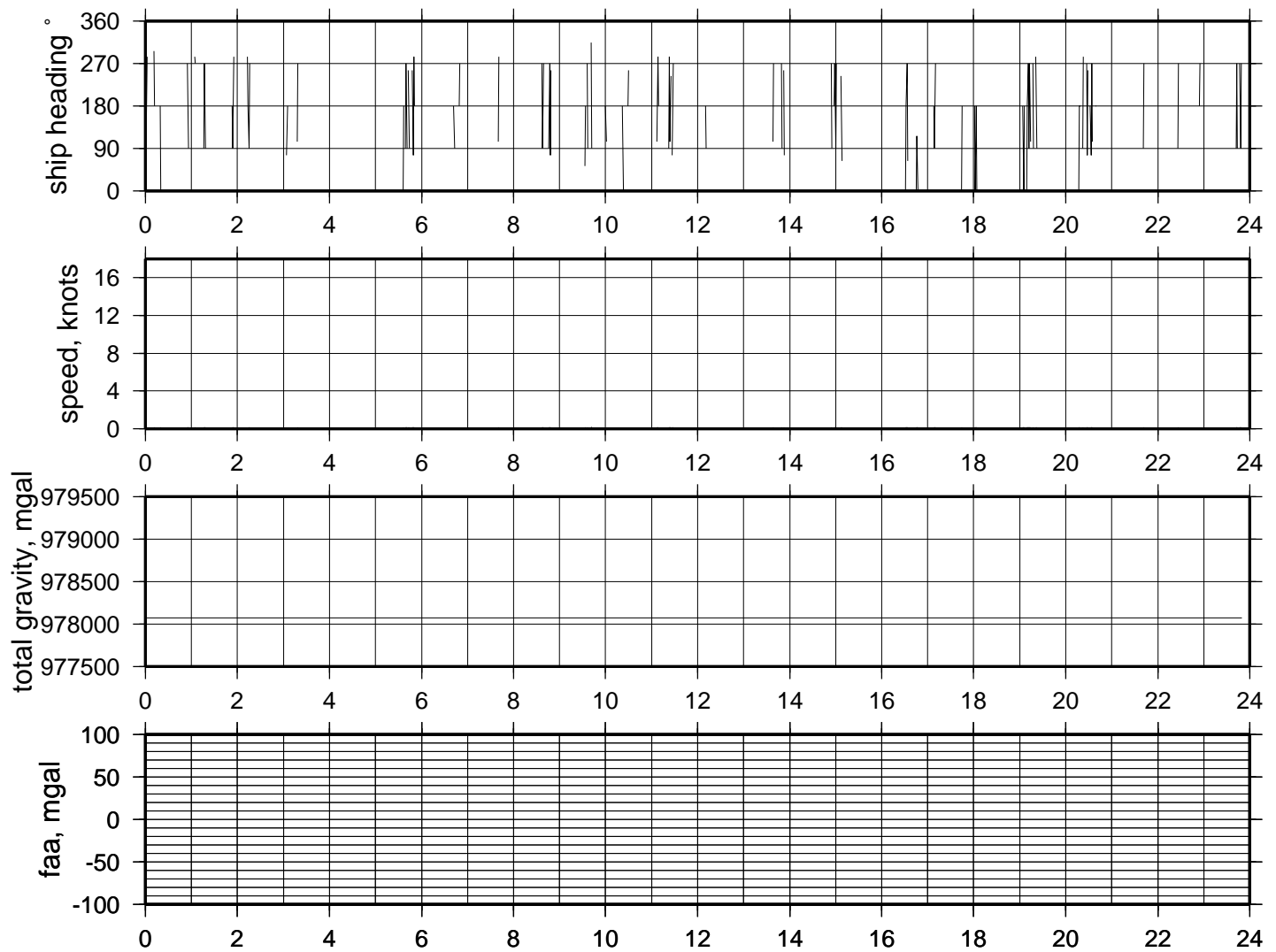


# U/W data DANA02RR 2003nov05



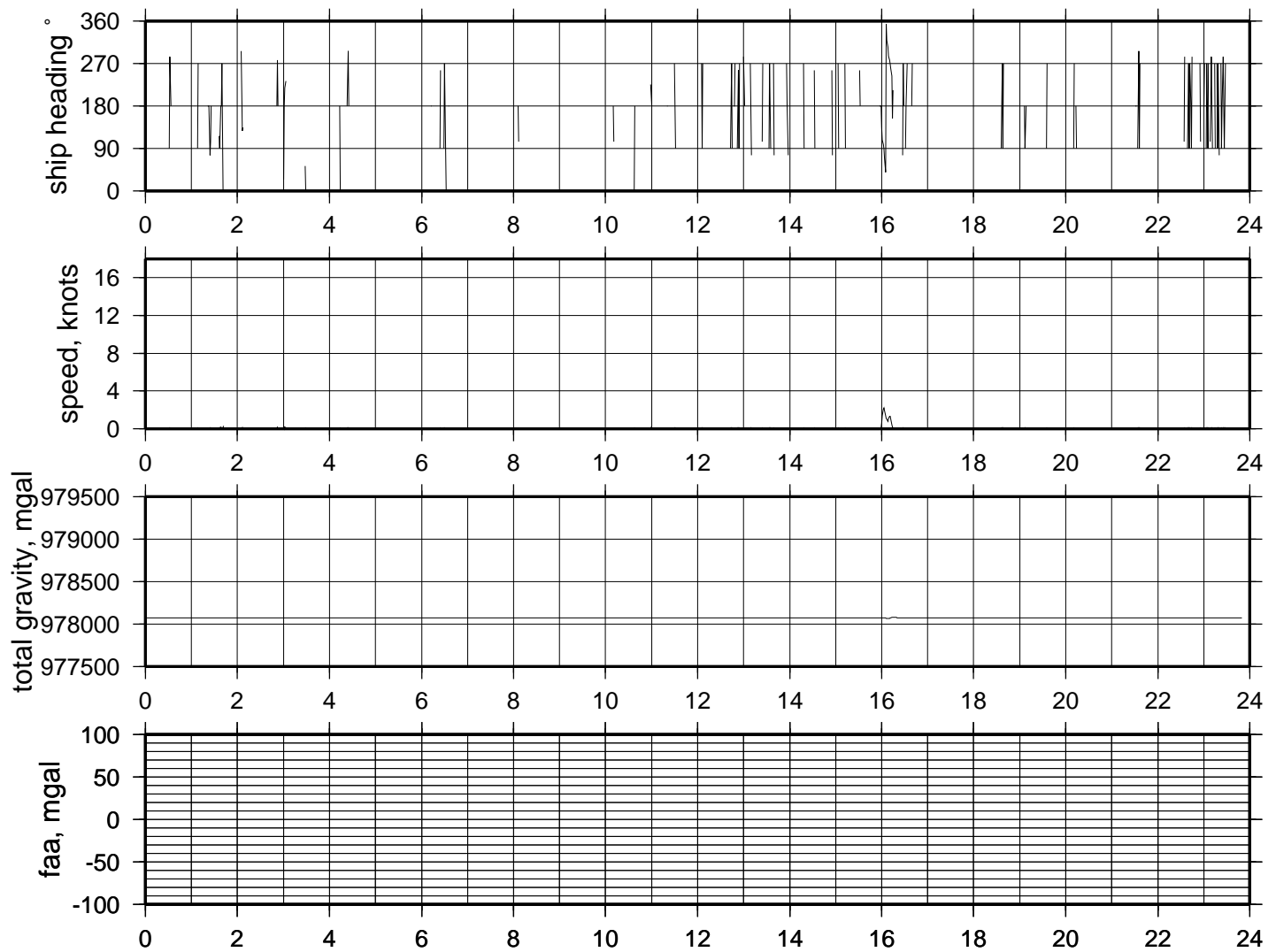
GMT 2003 Nov 6 01:08:22

# U/W data DANA02RR 2003nov07



GMT 2003 Nov 8 01:07:10

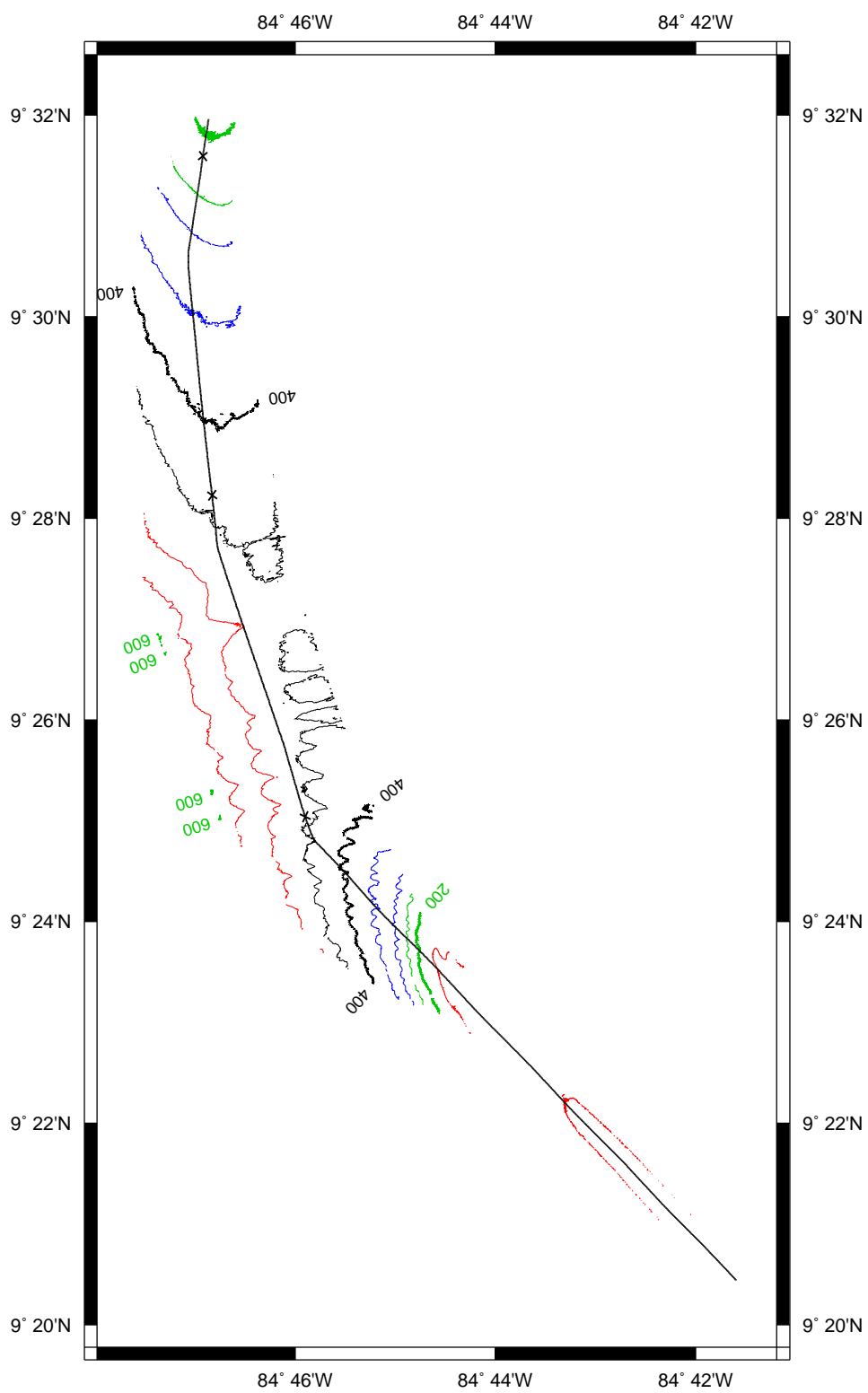
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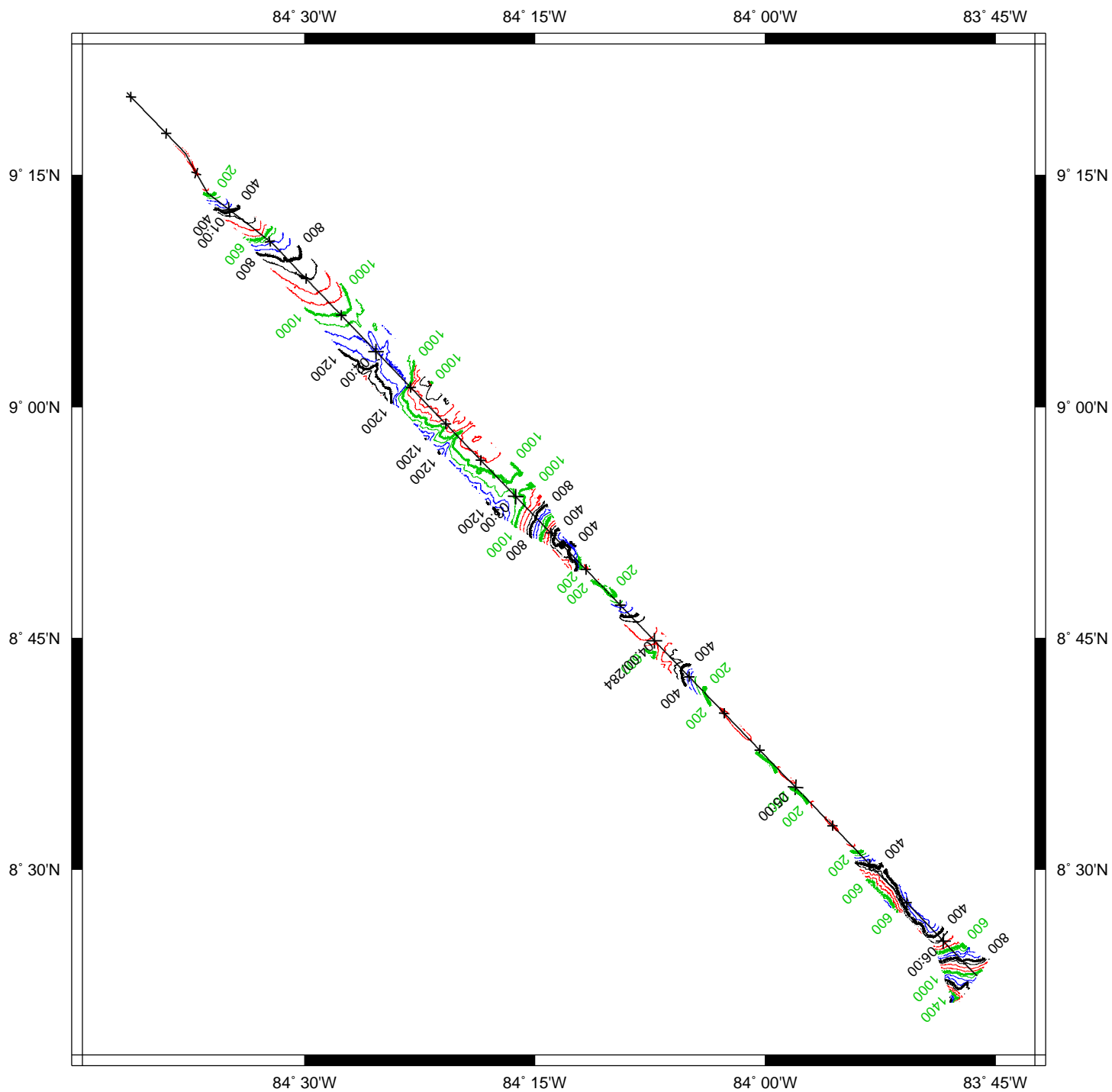
**GMT** 2003 Nov 9 01:07:11



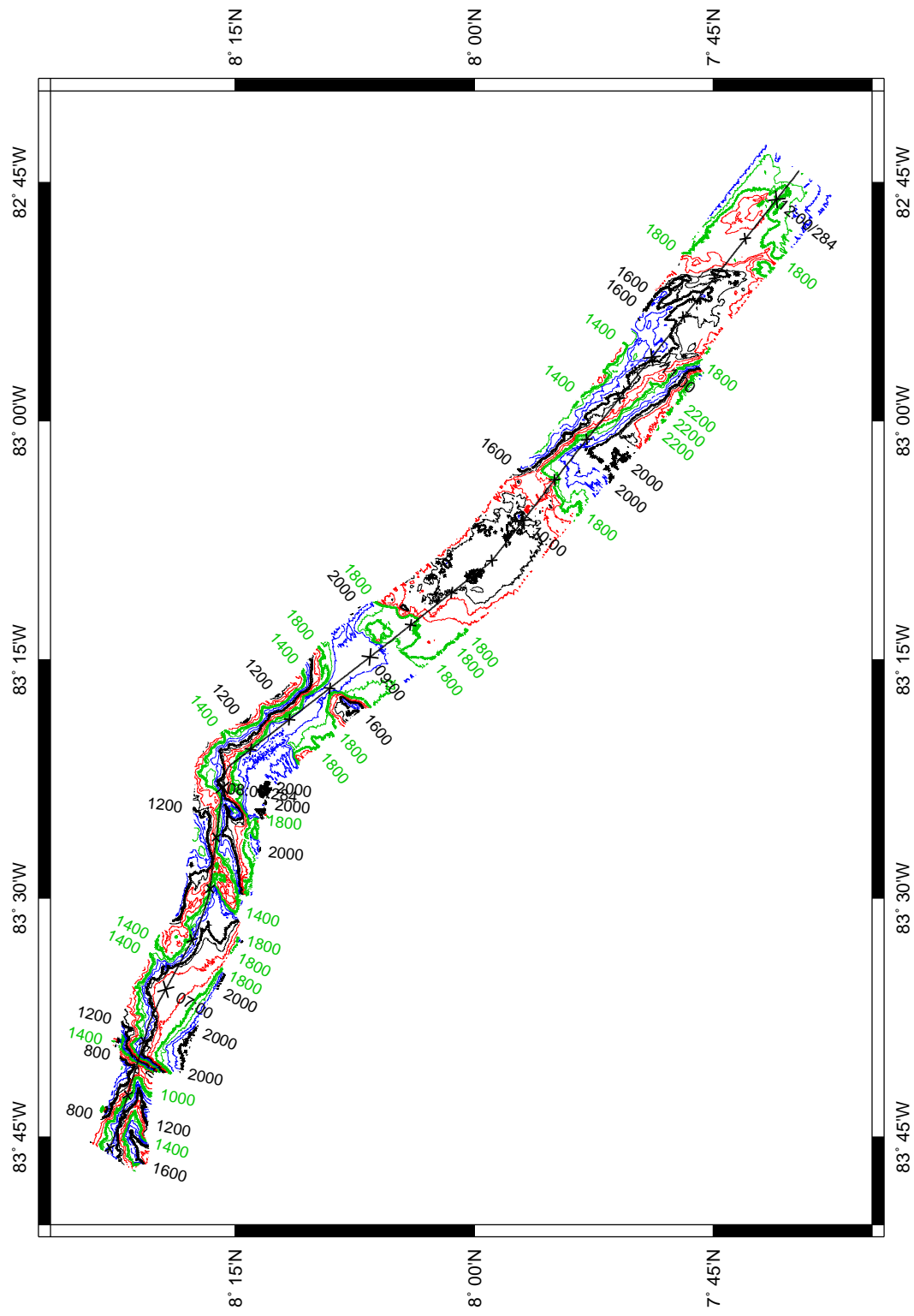
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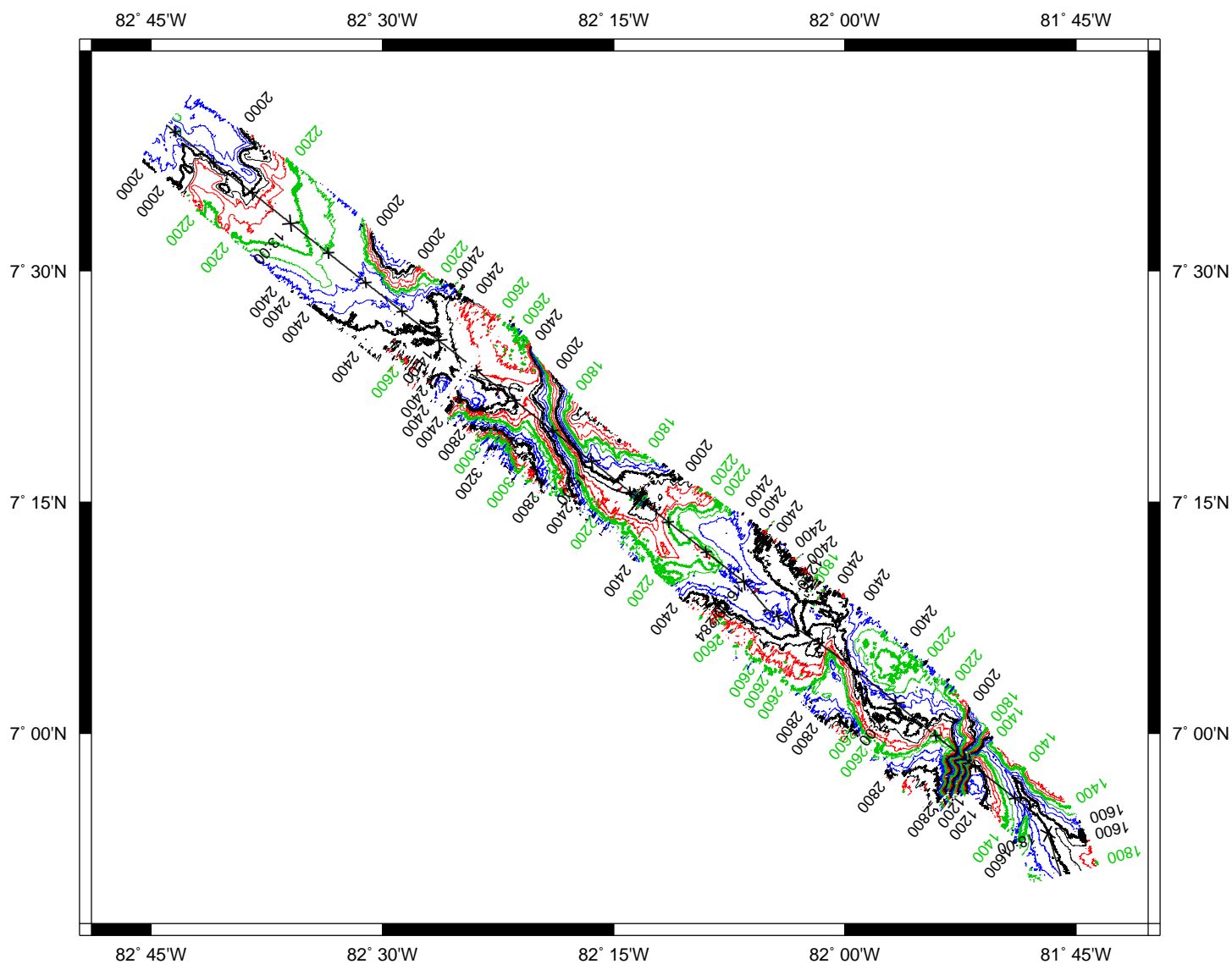
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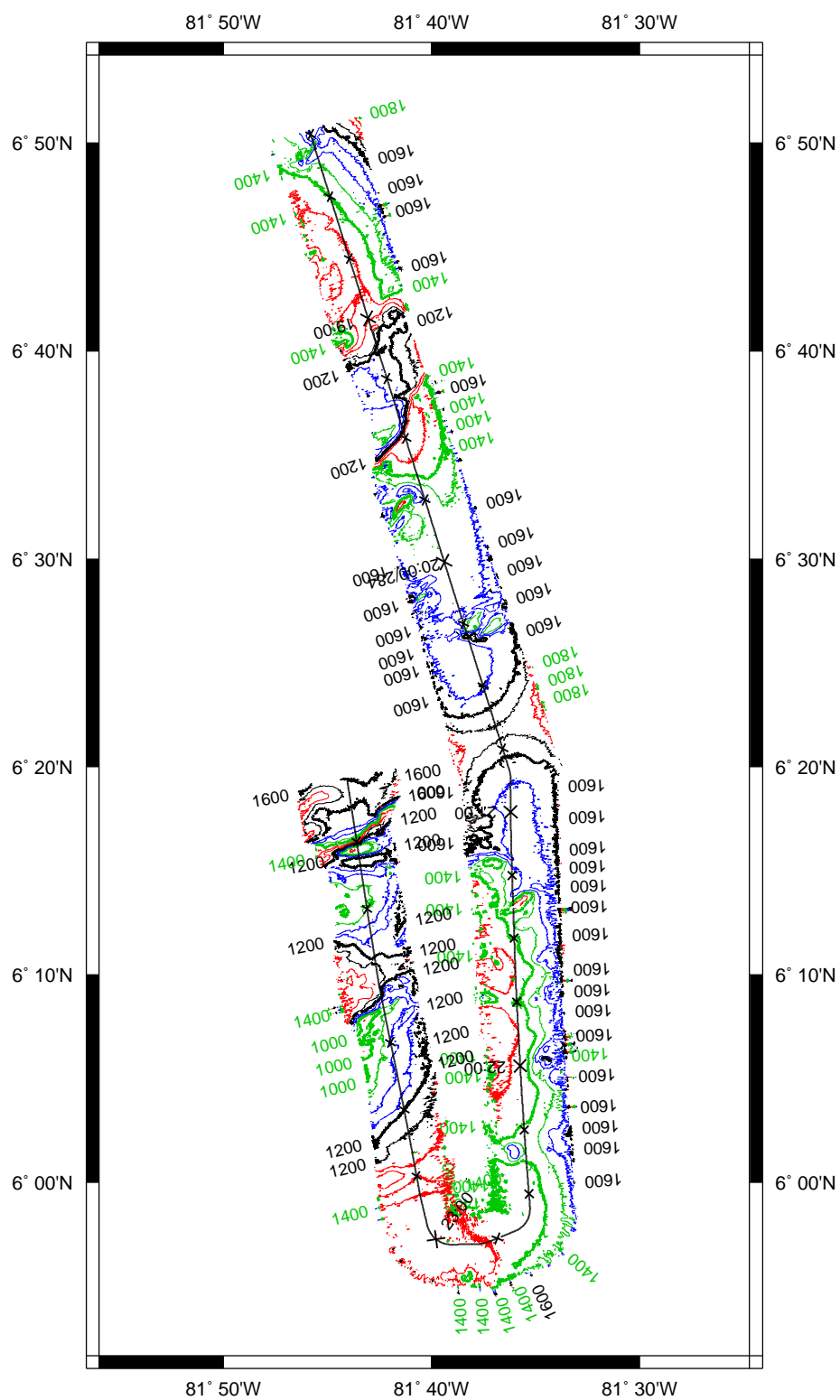
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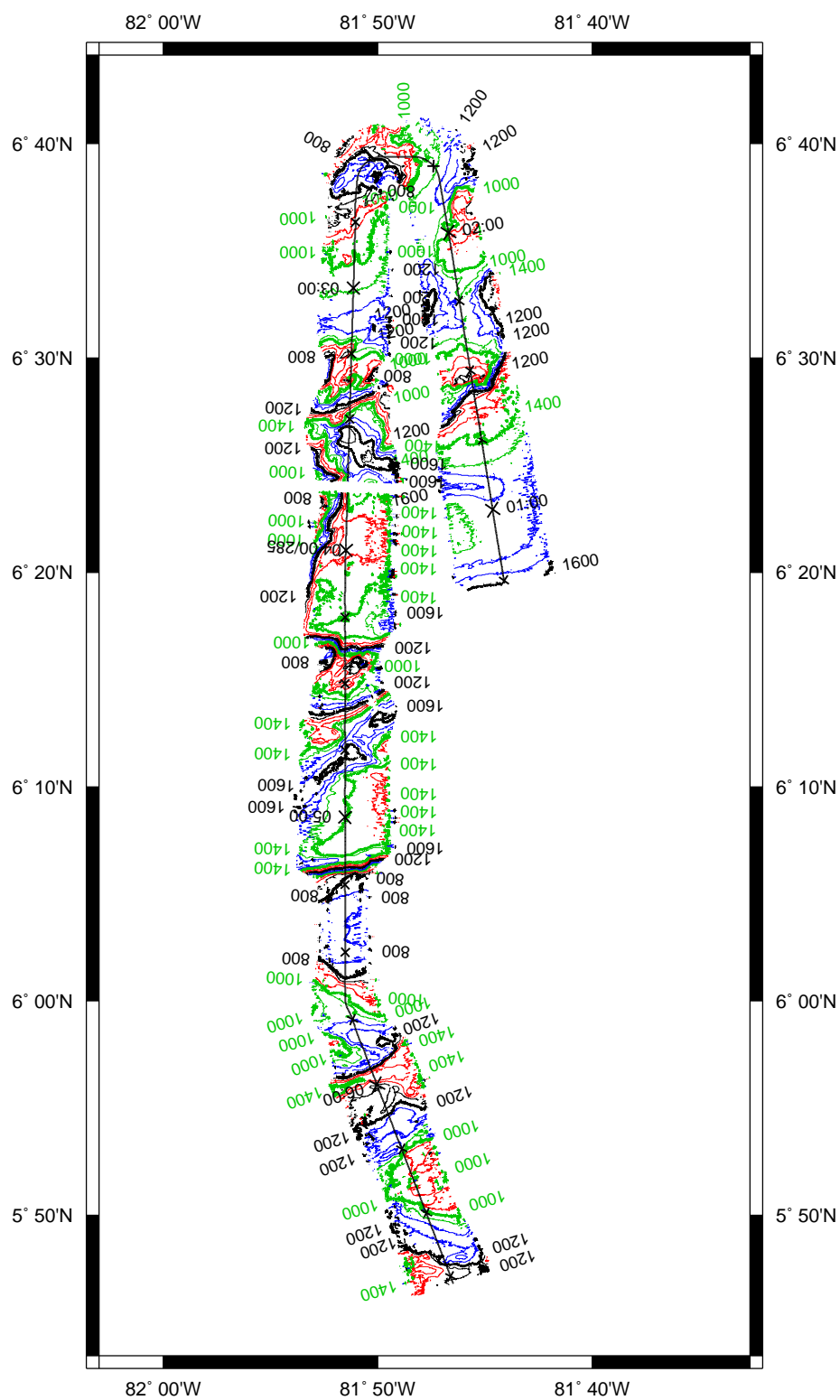
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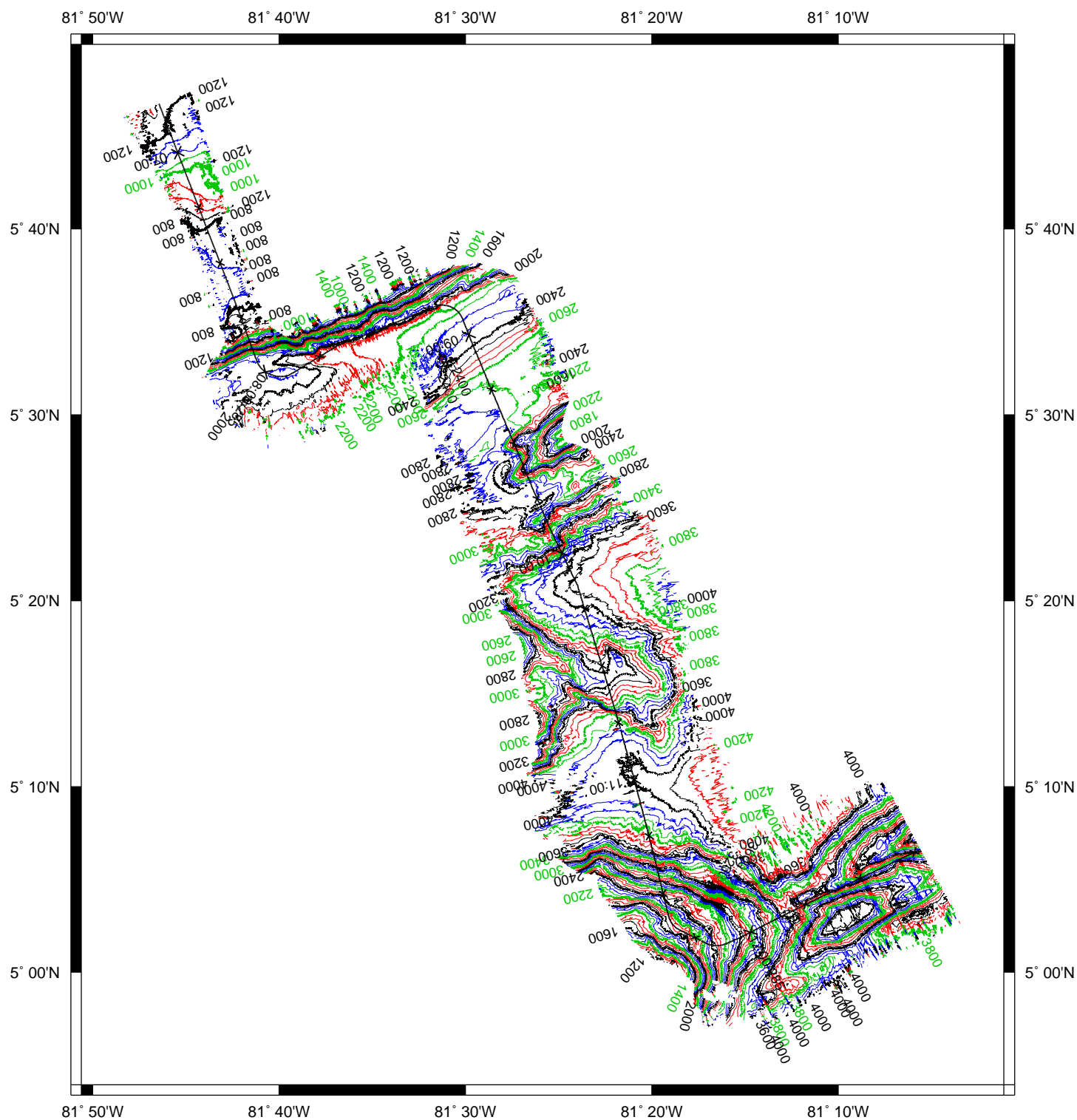
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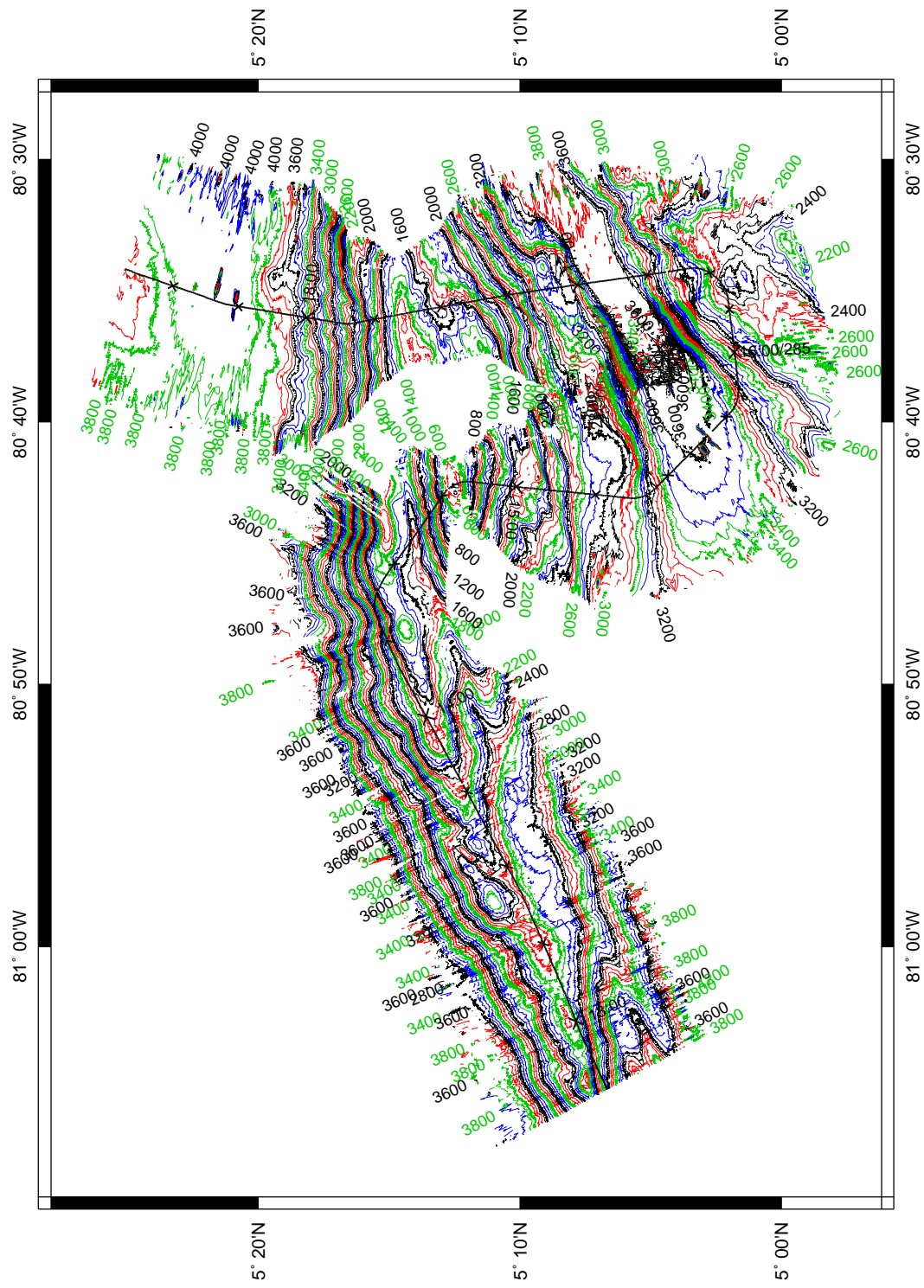
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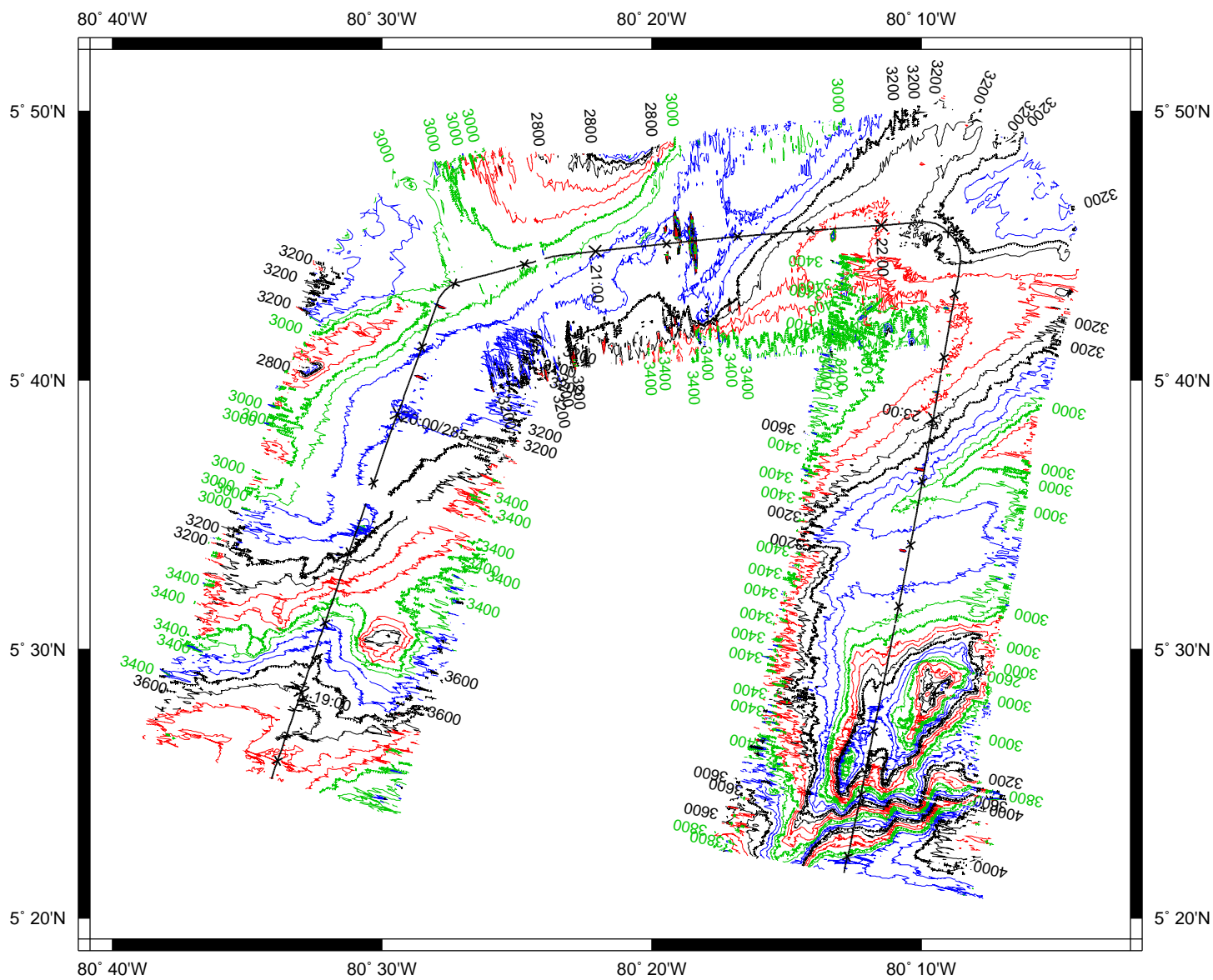


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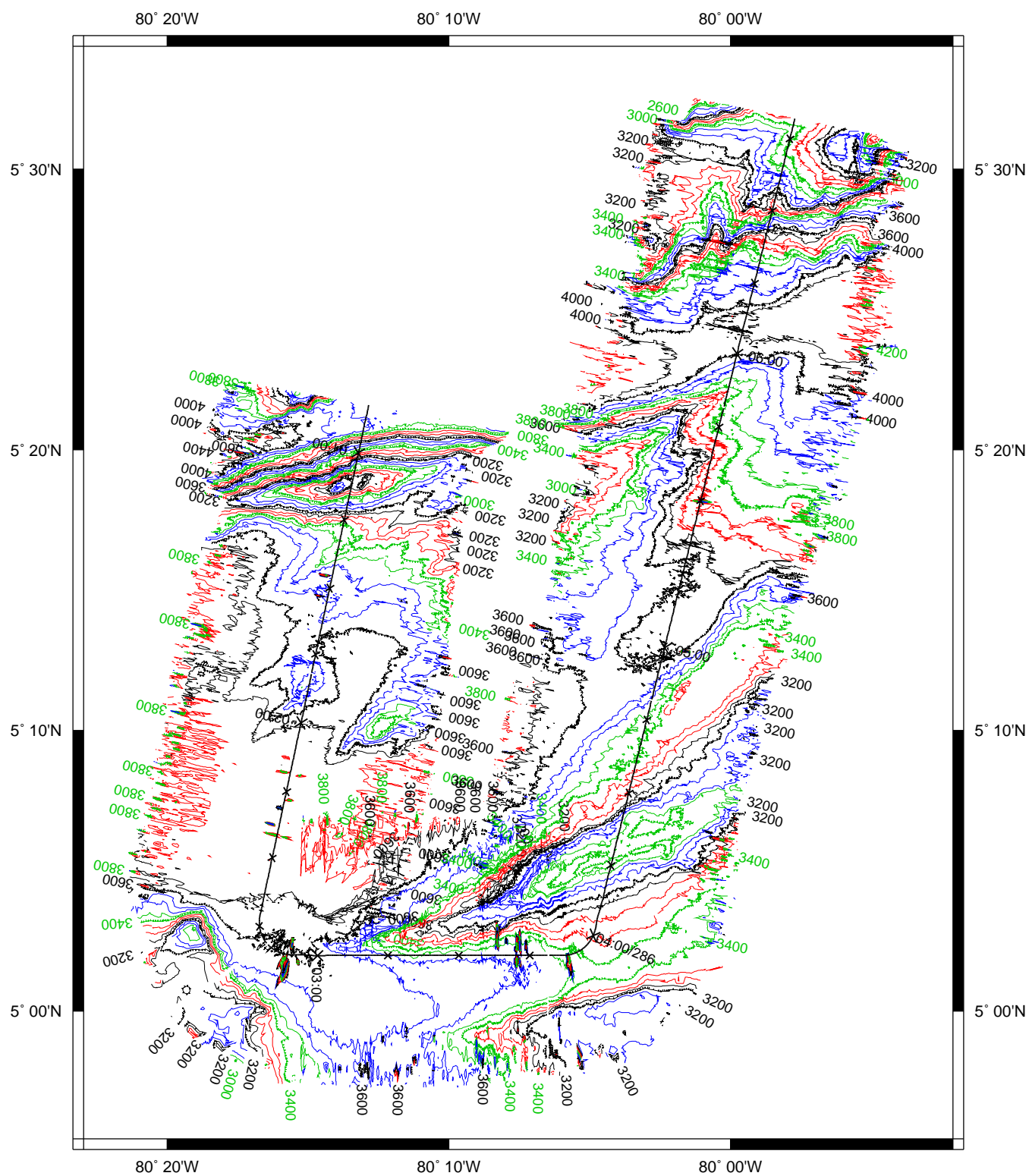




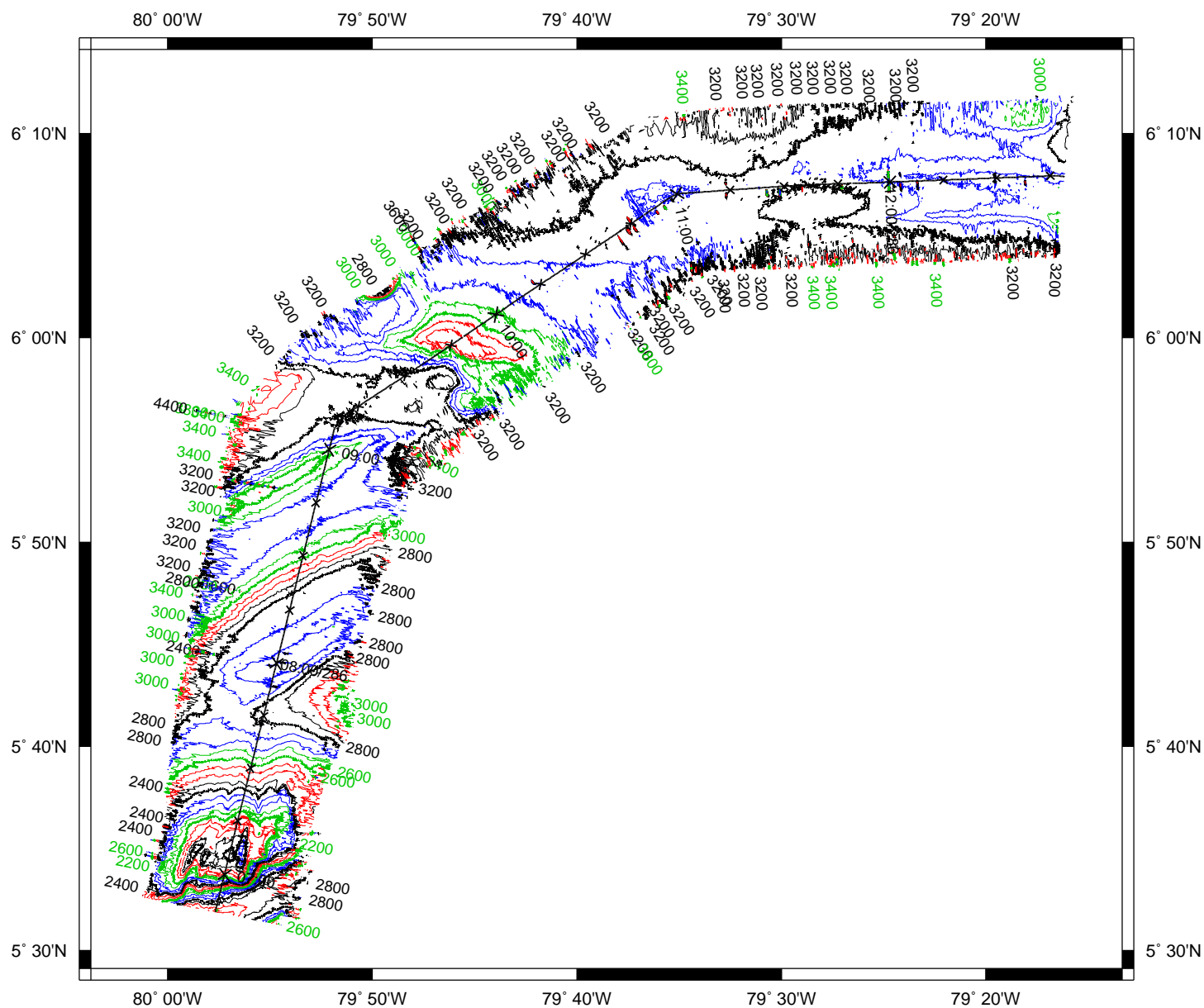
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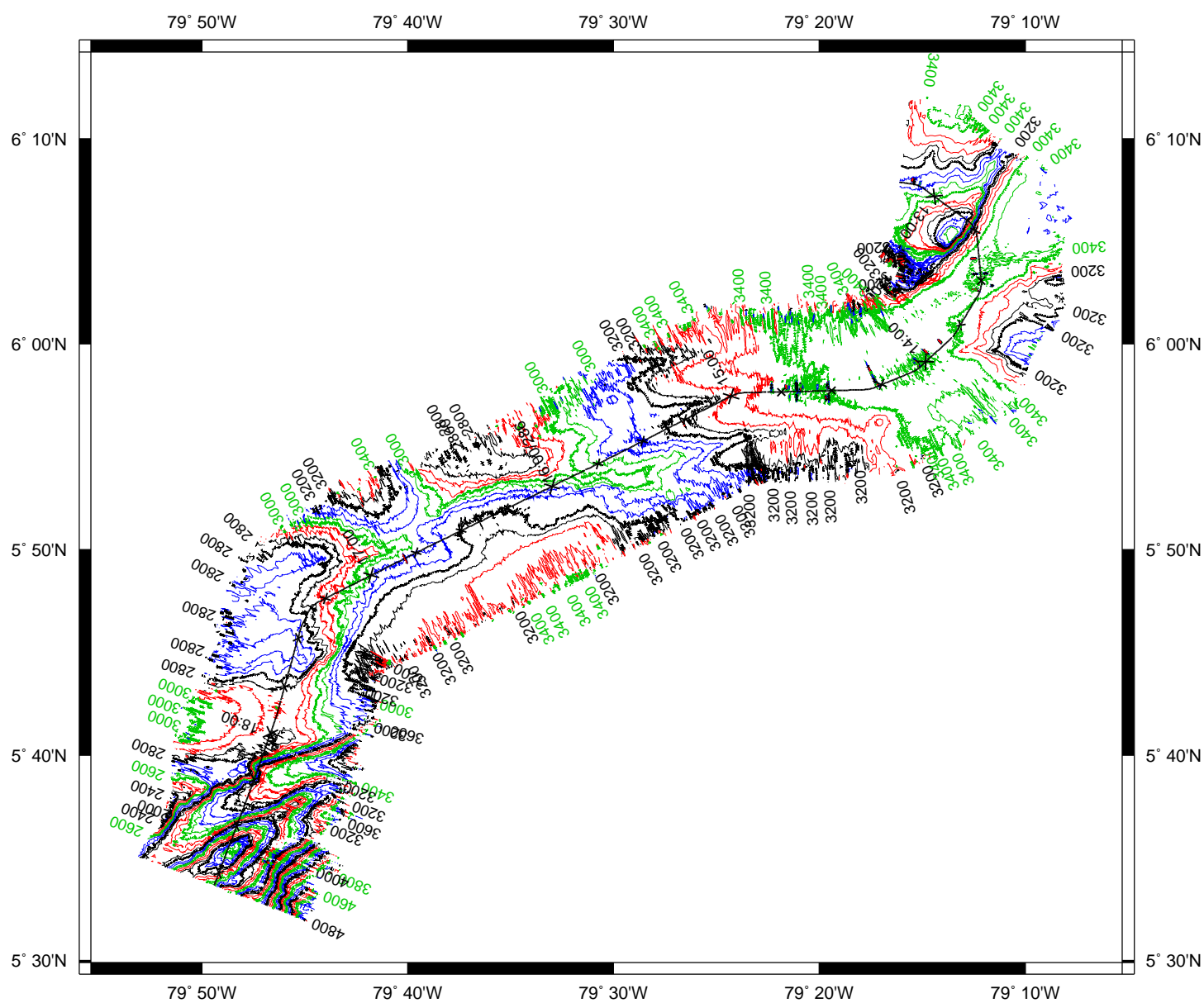
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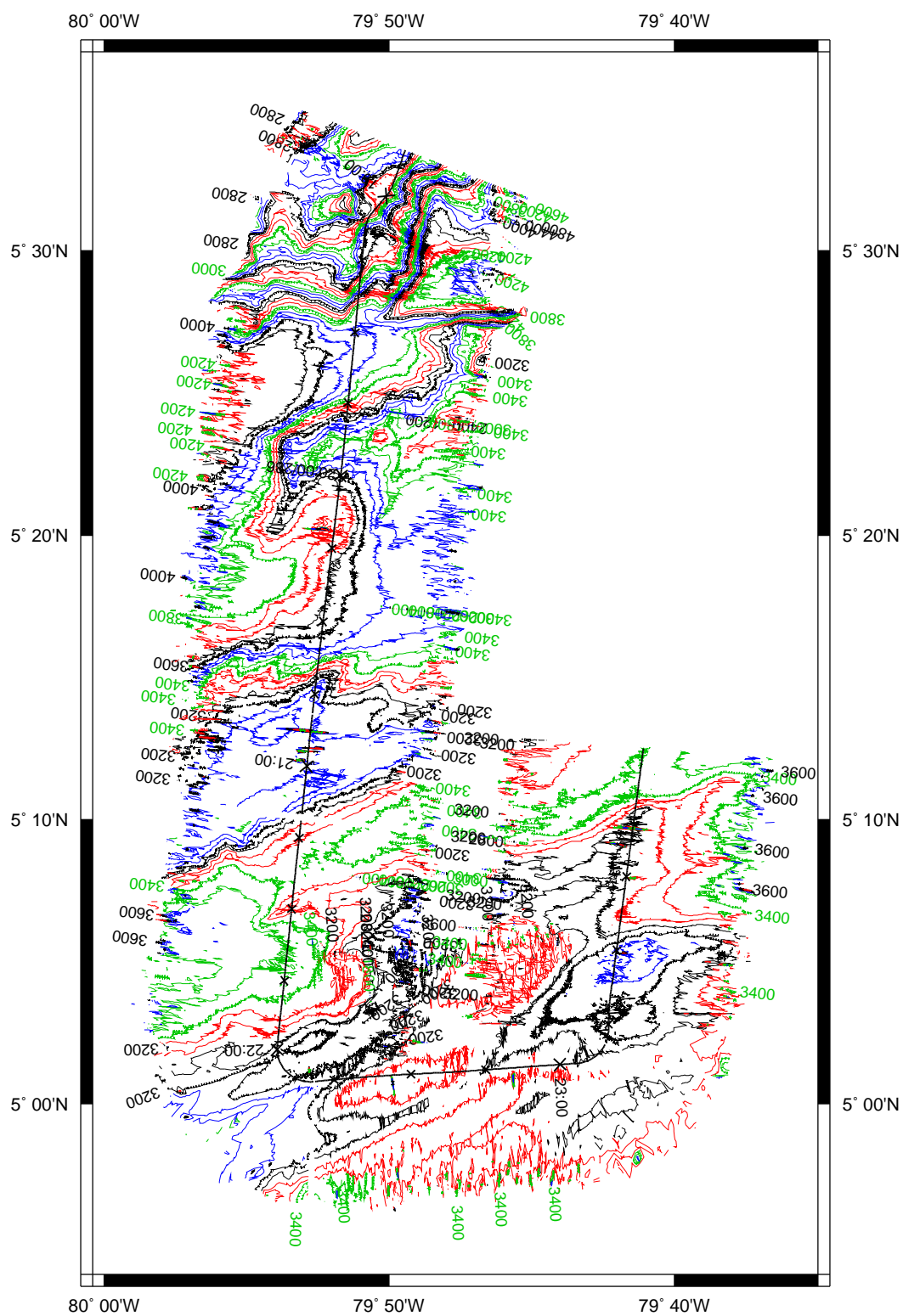
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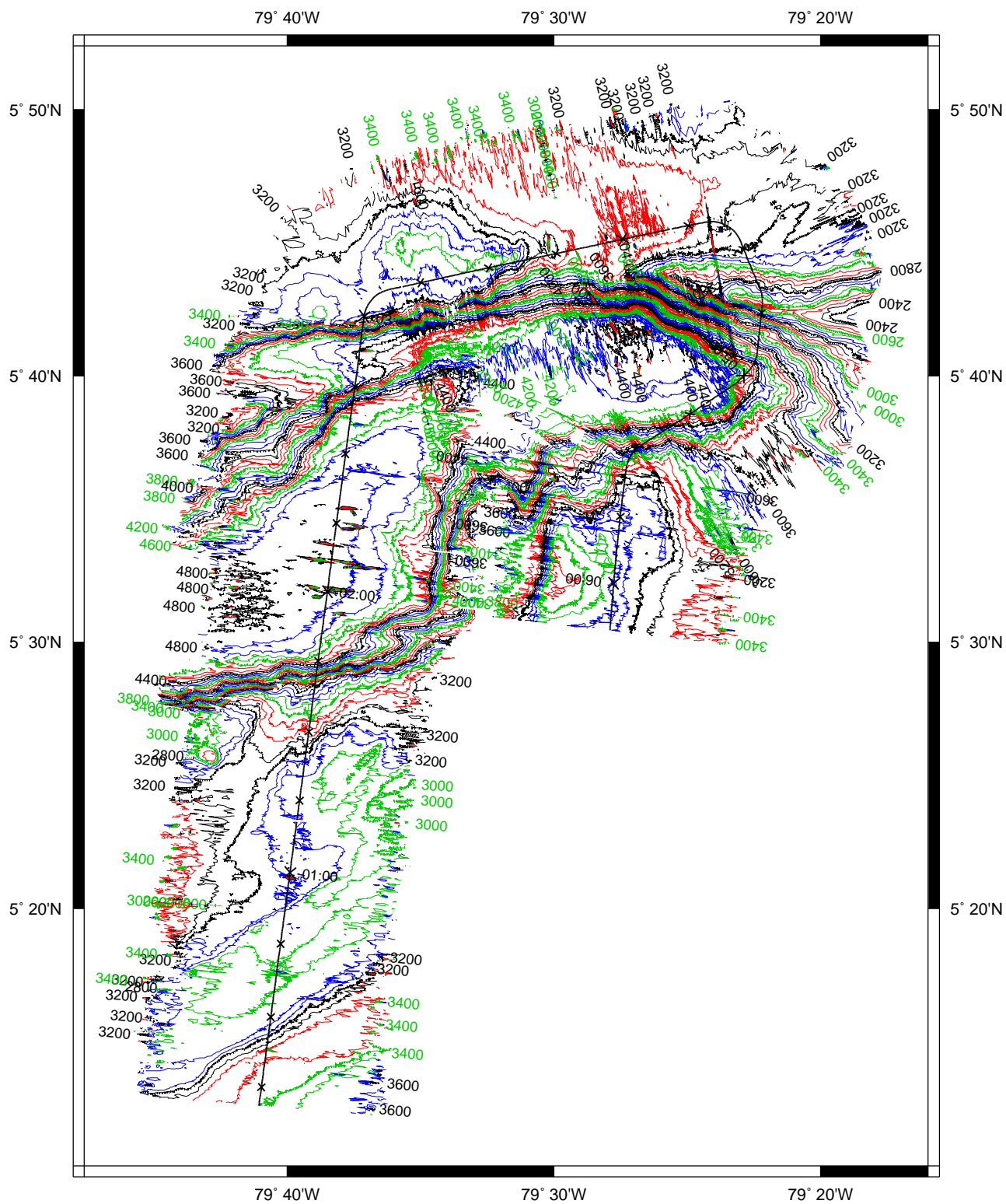


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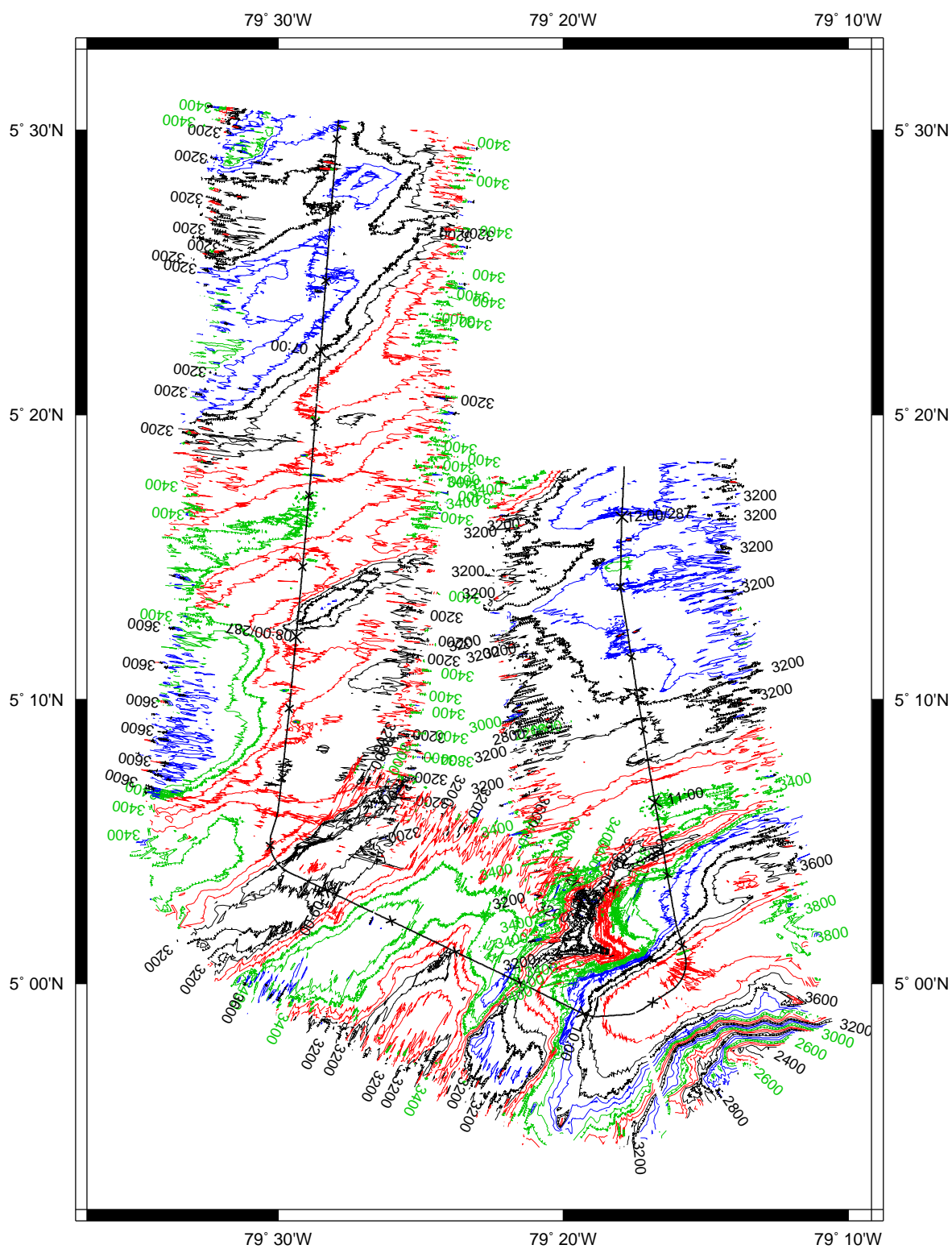




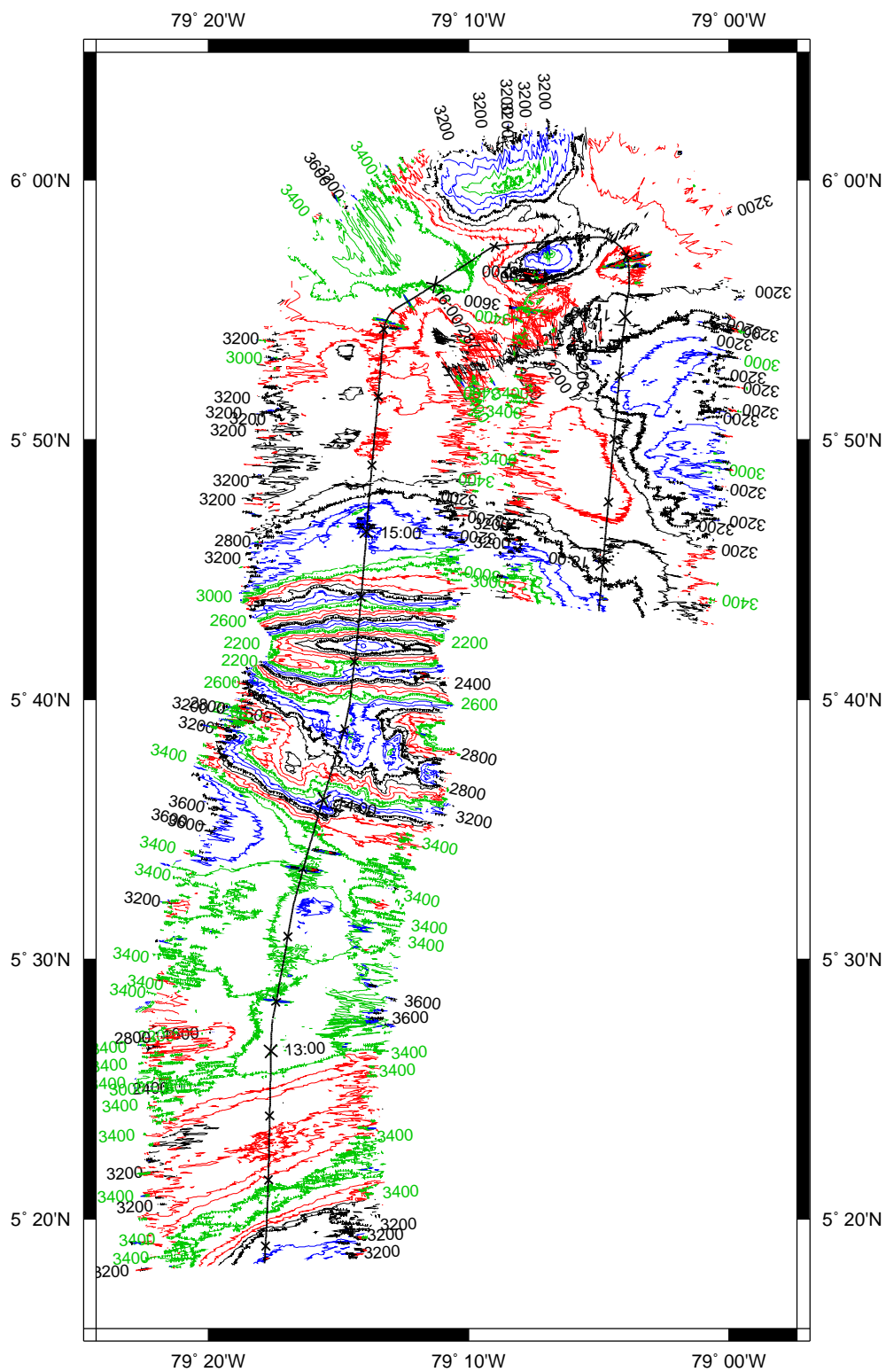
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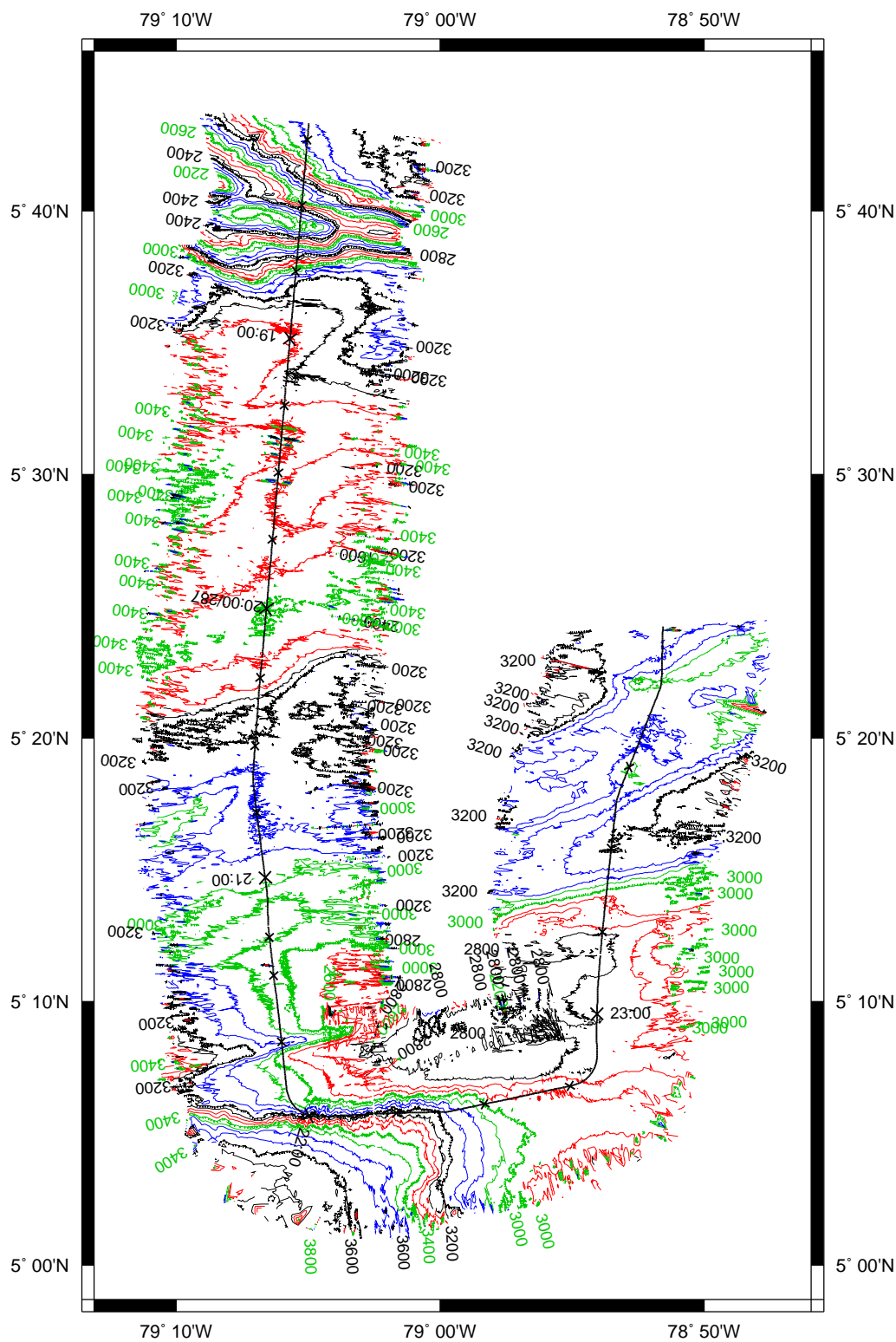


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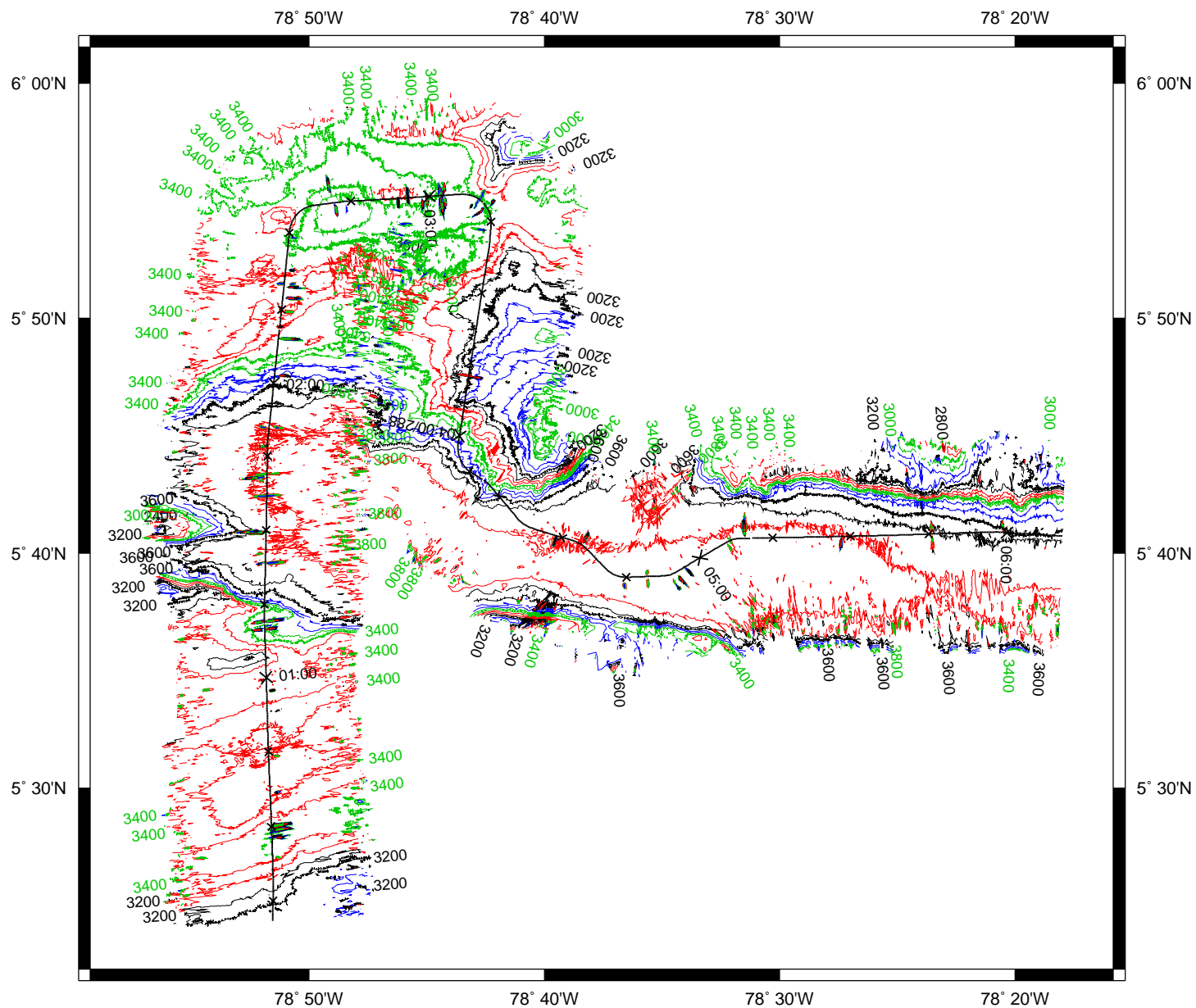




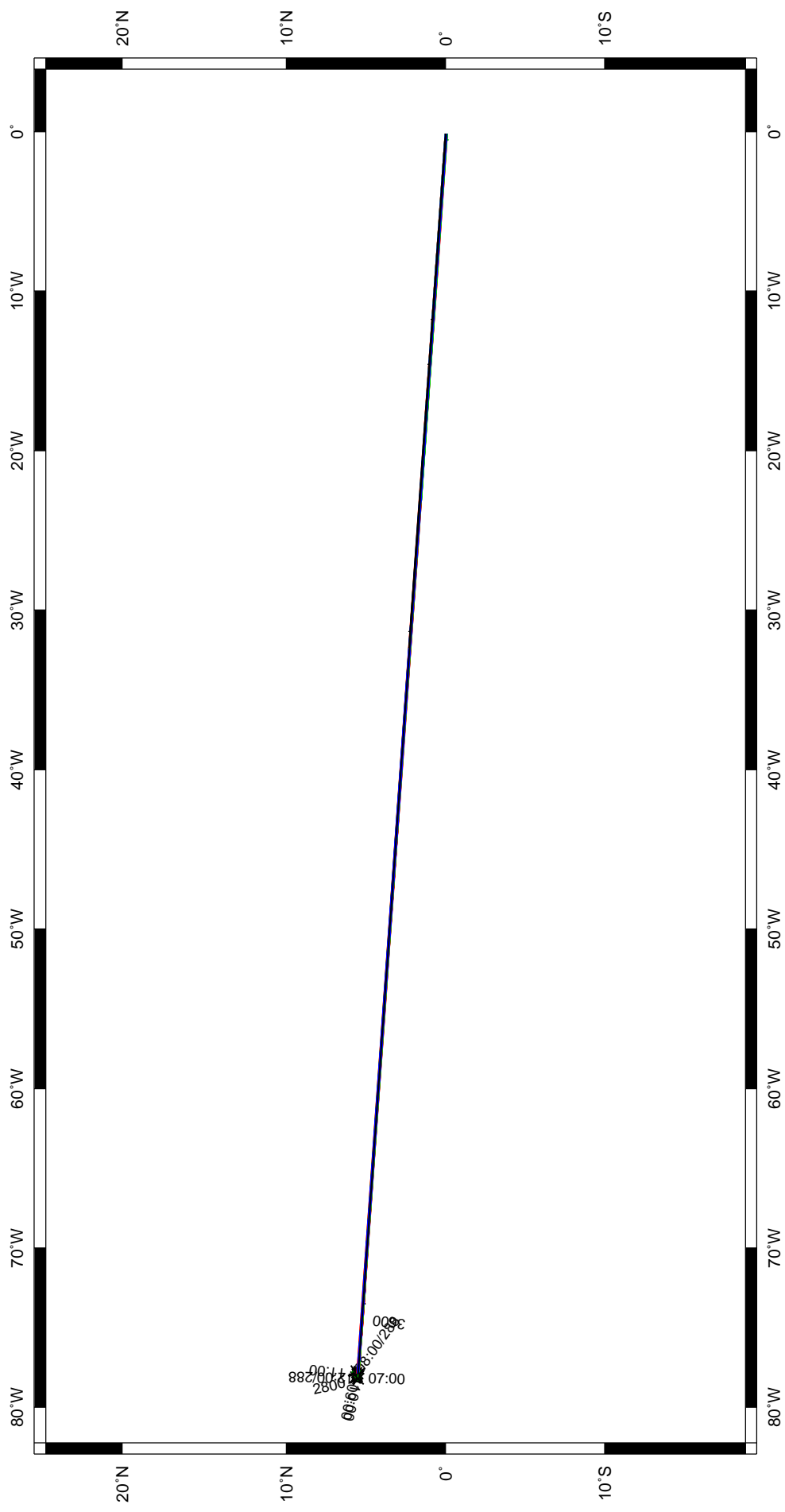
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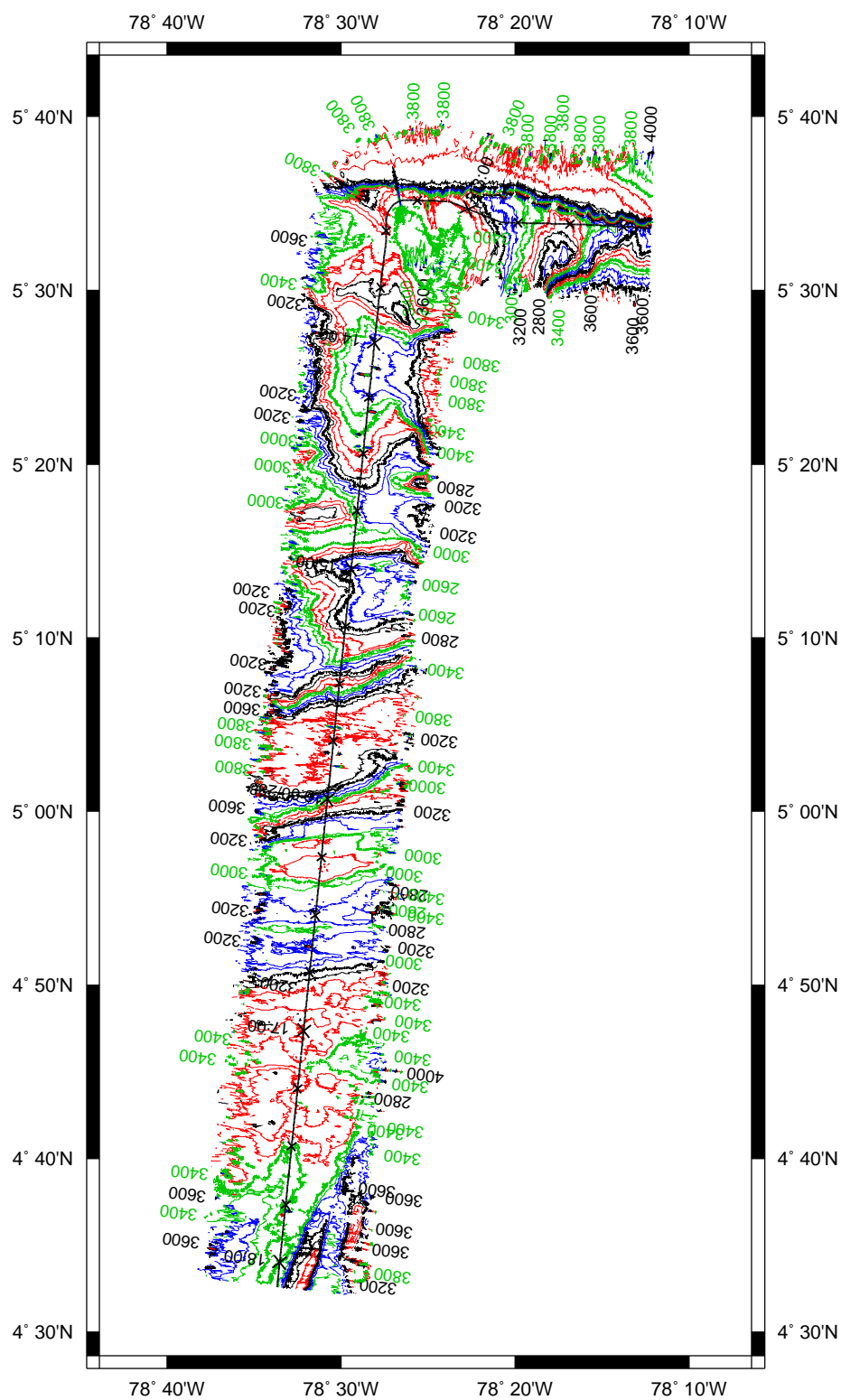
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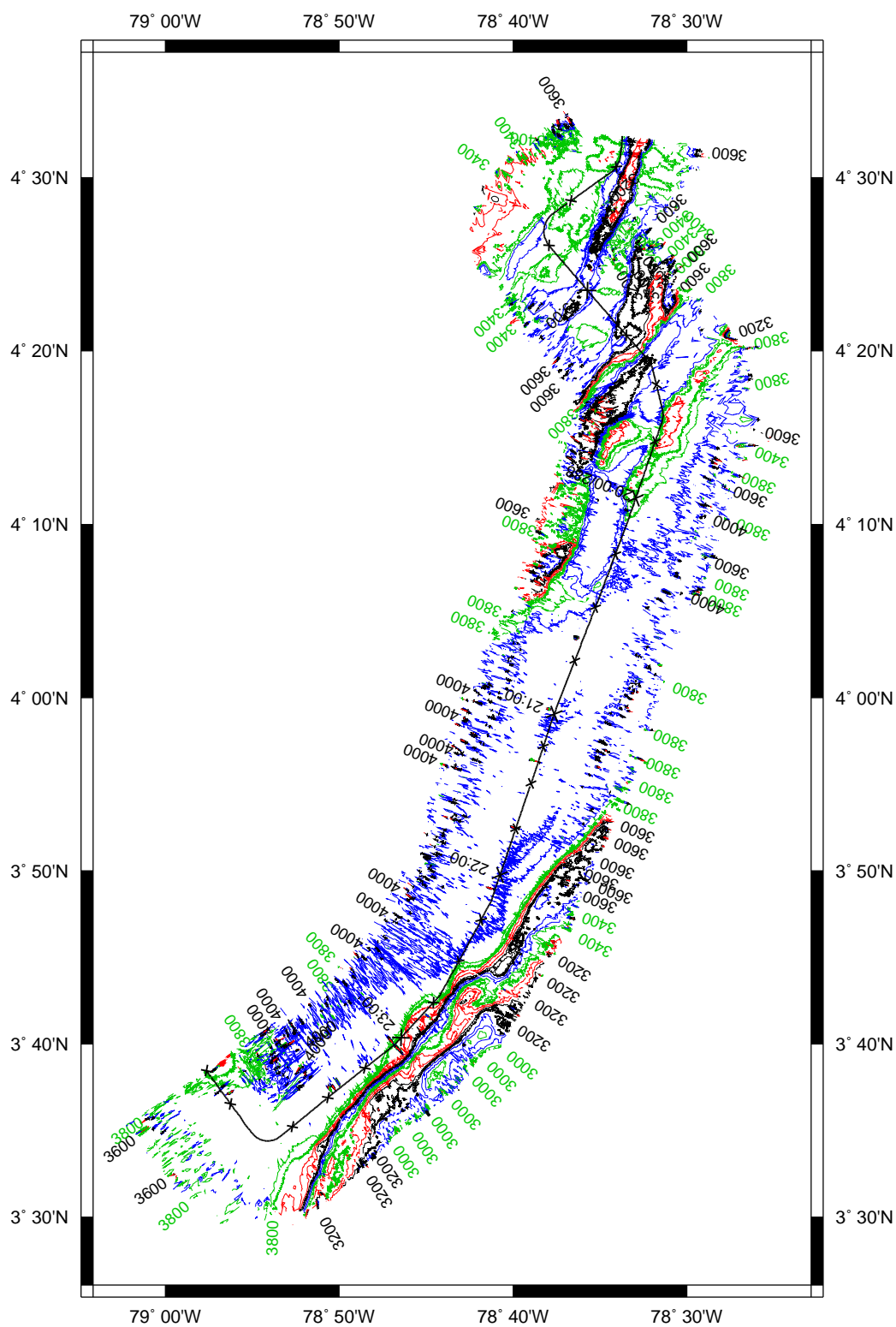
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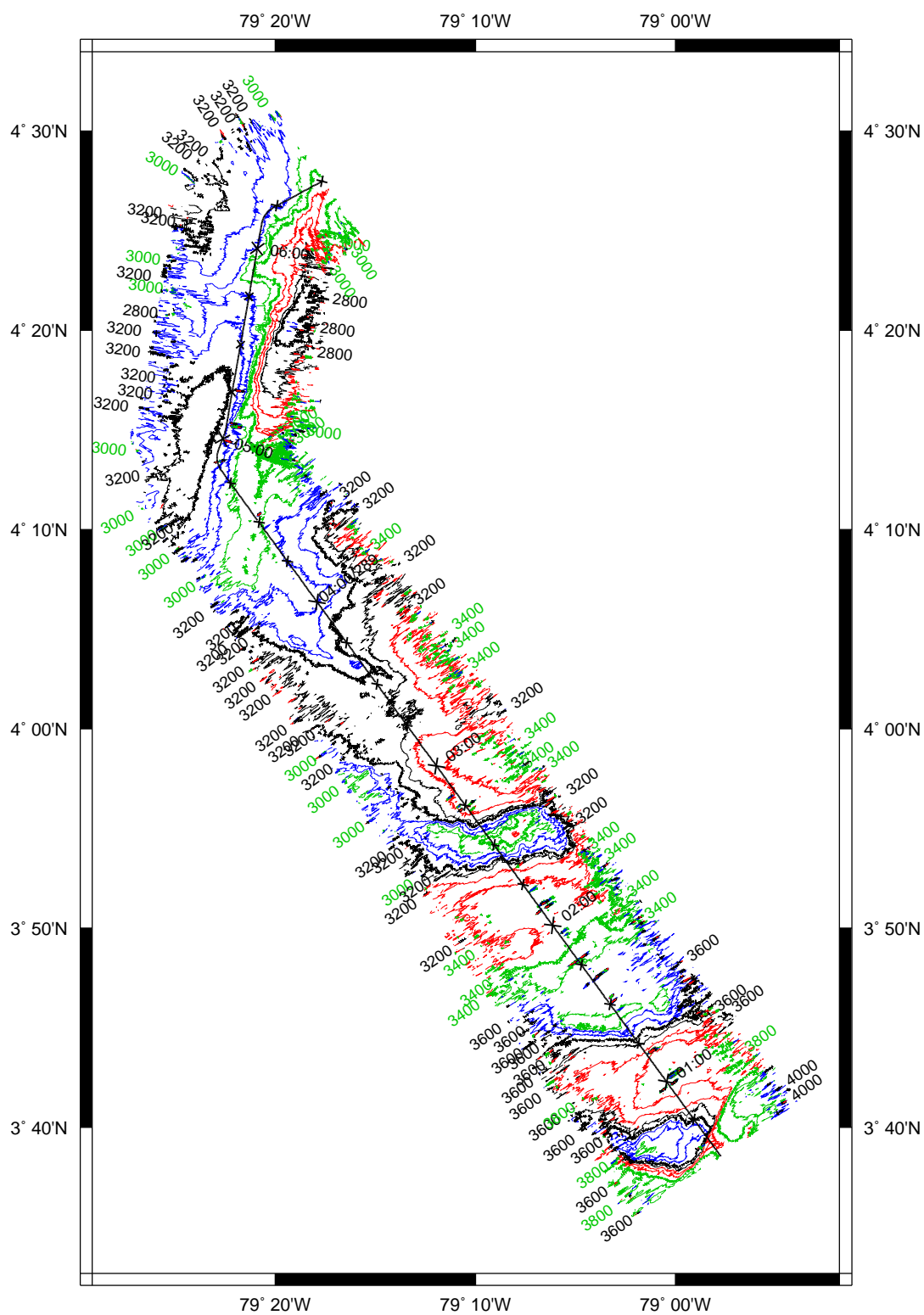
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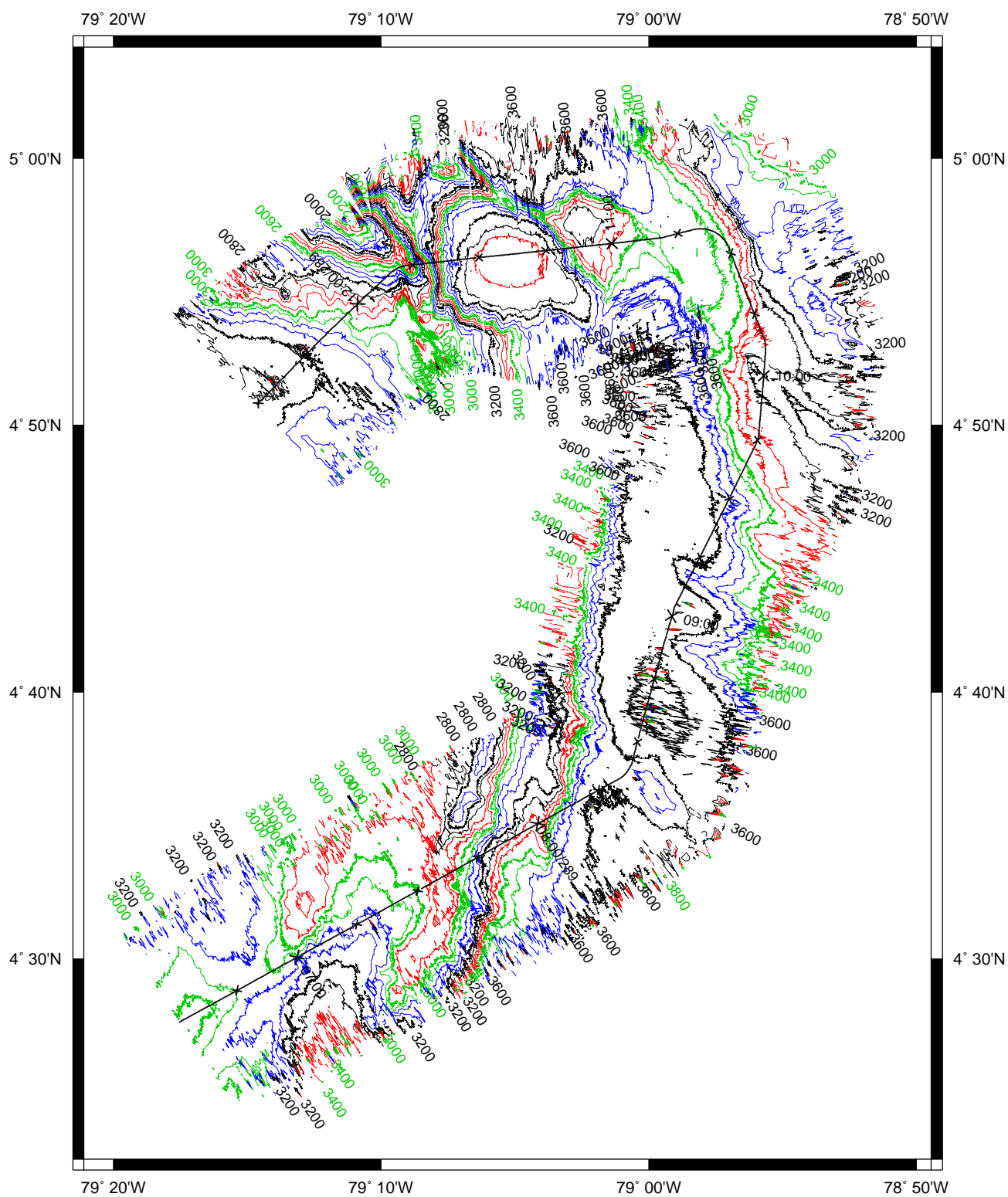
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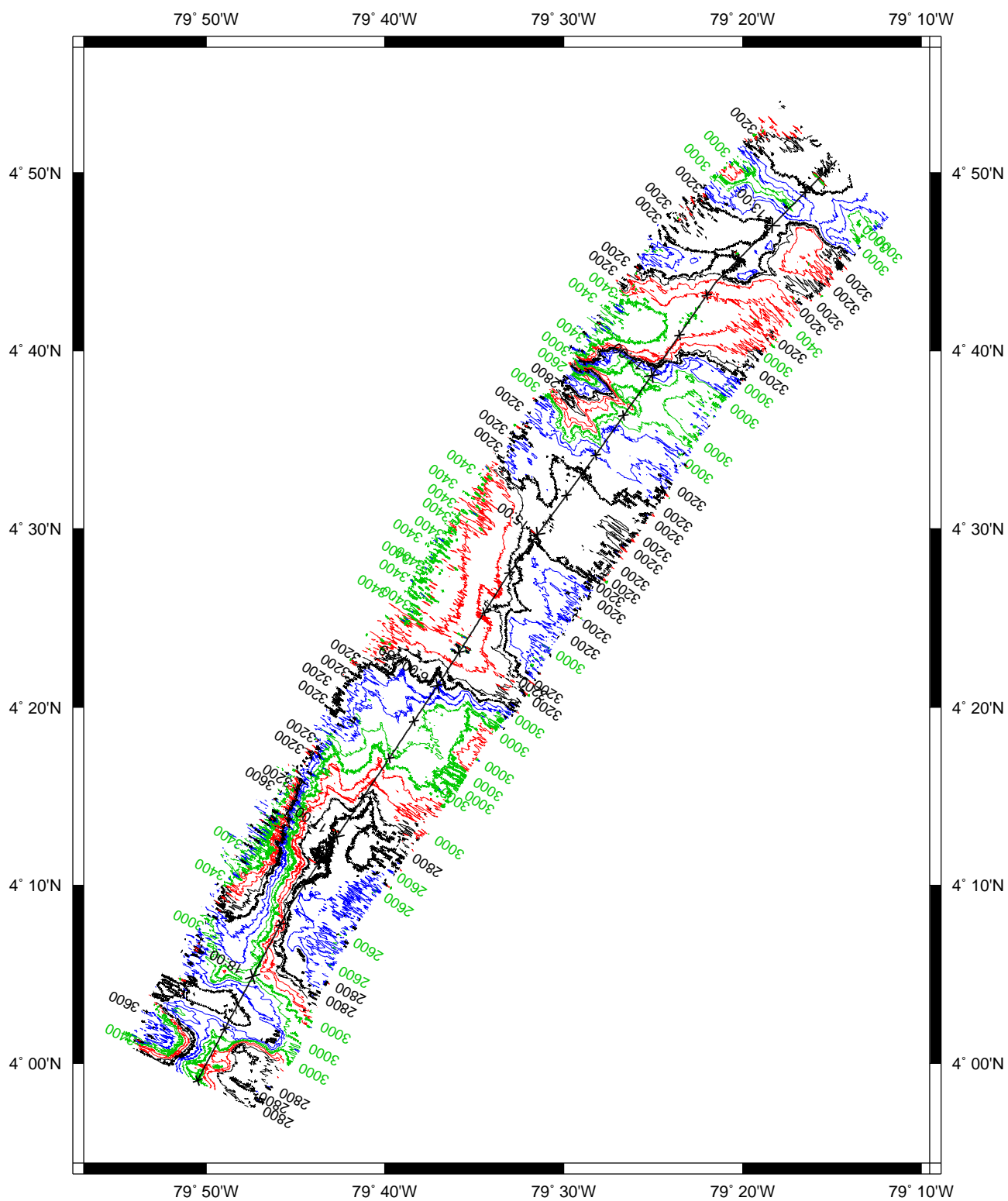


Data List File datalist.20031016.0600-1200



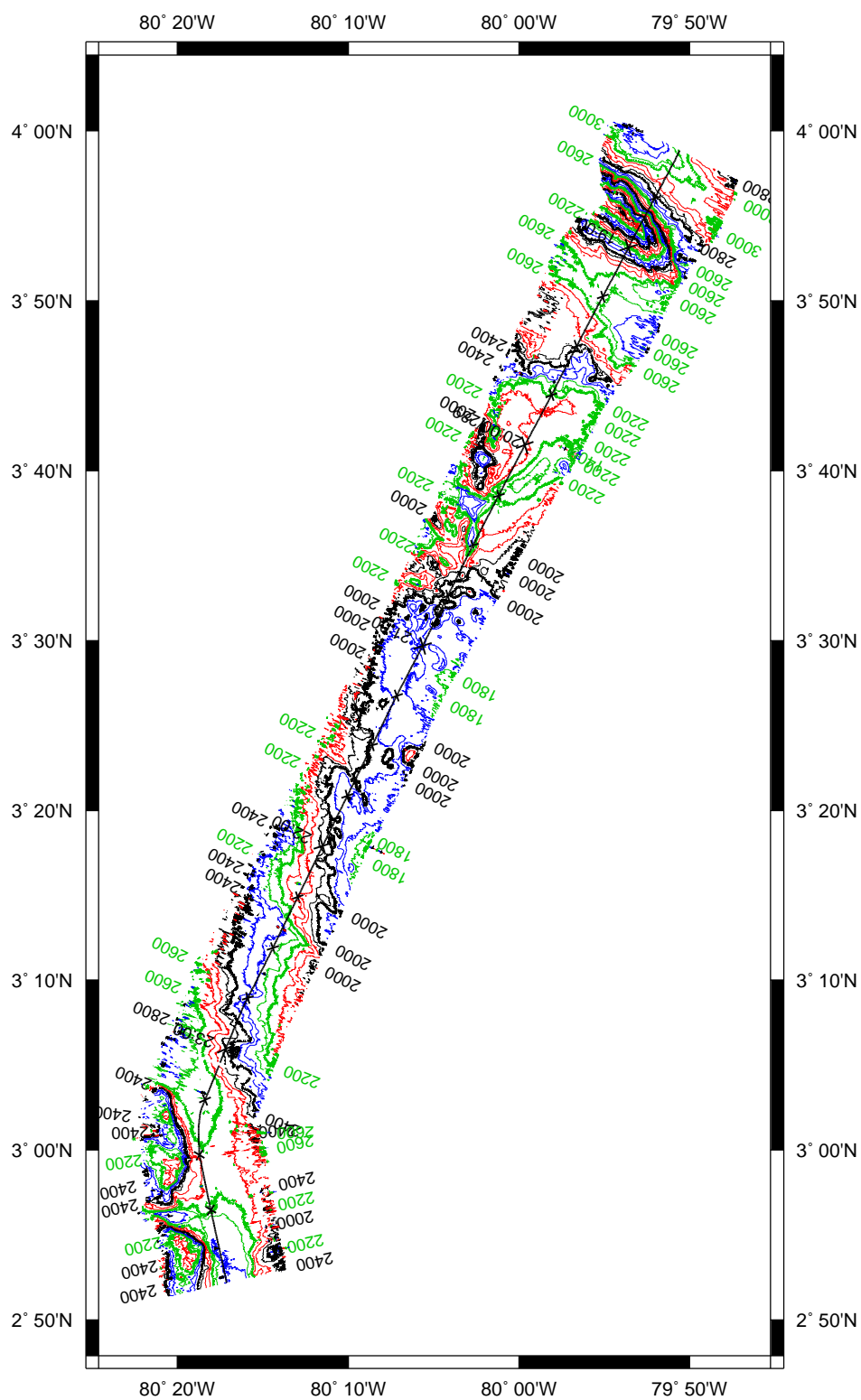


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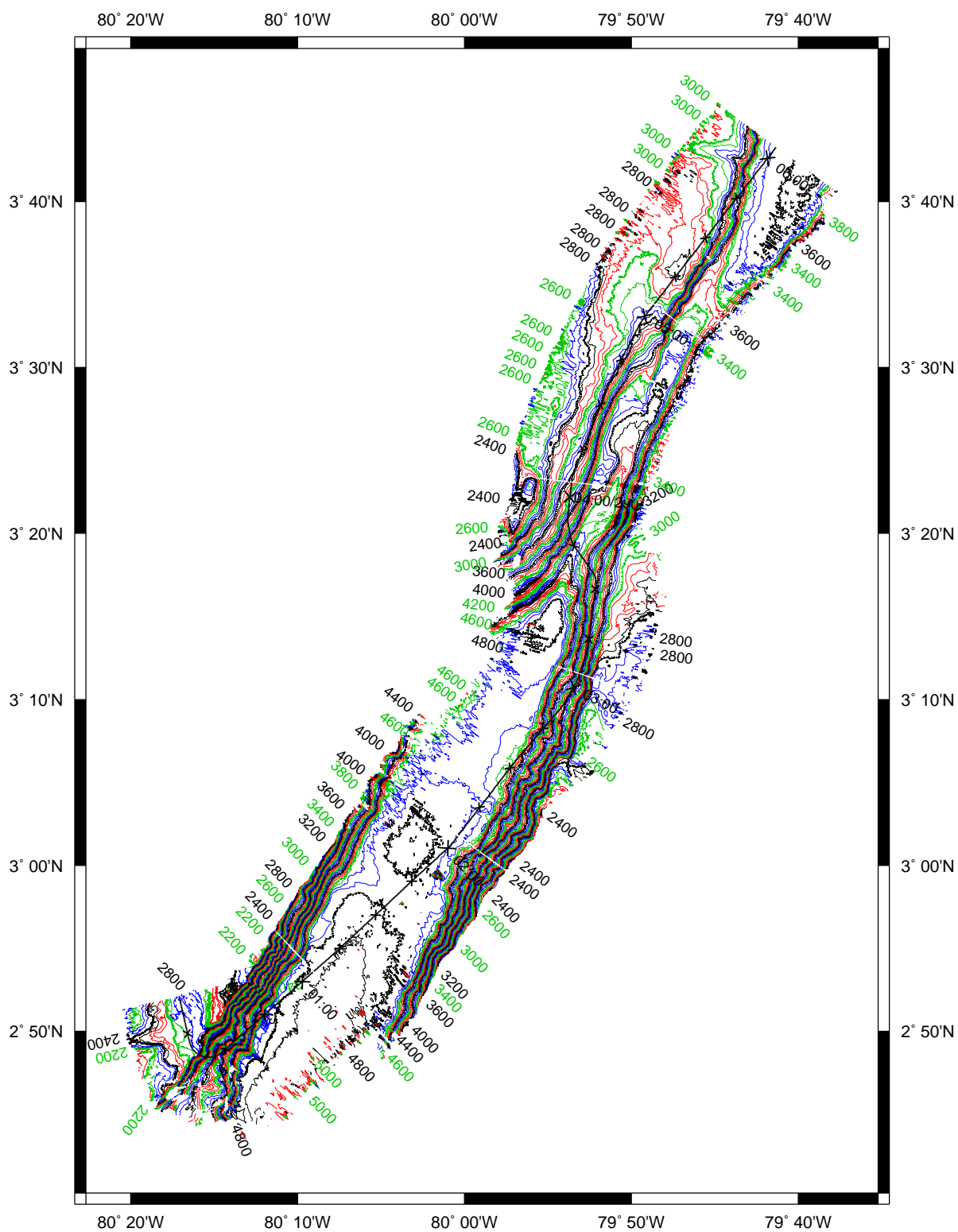




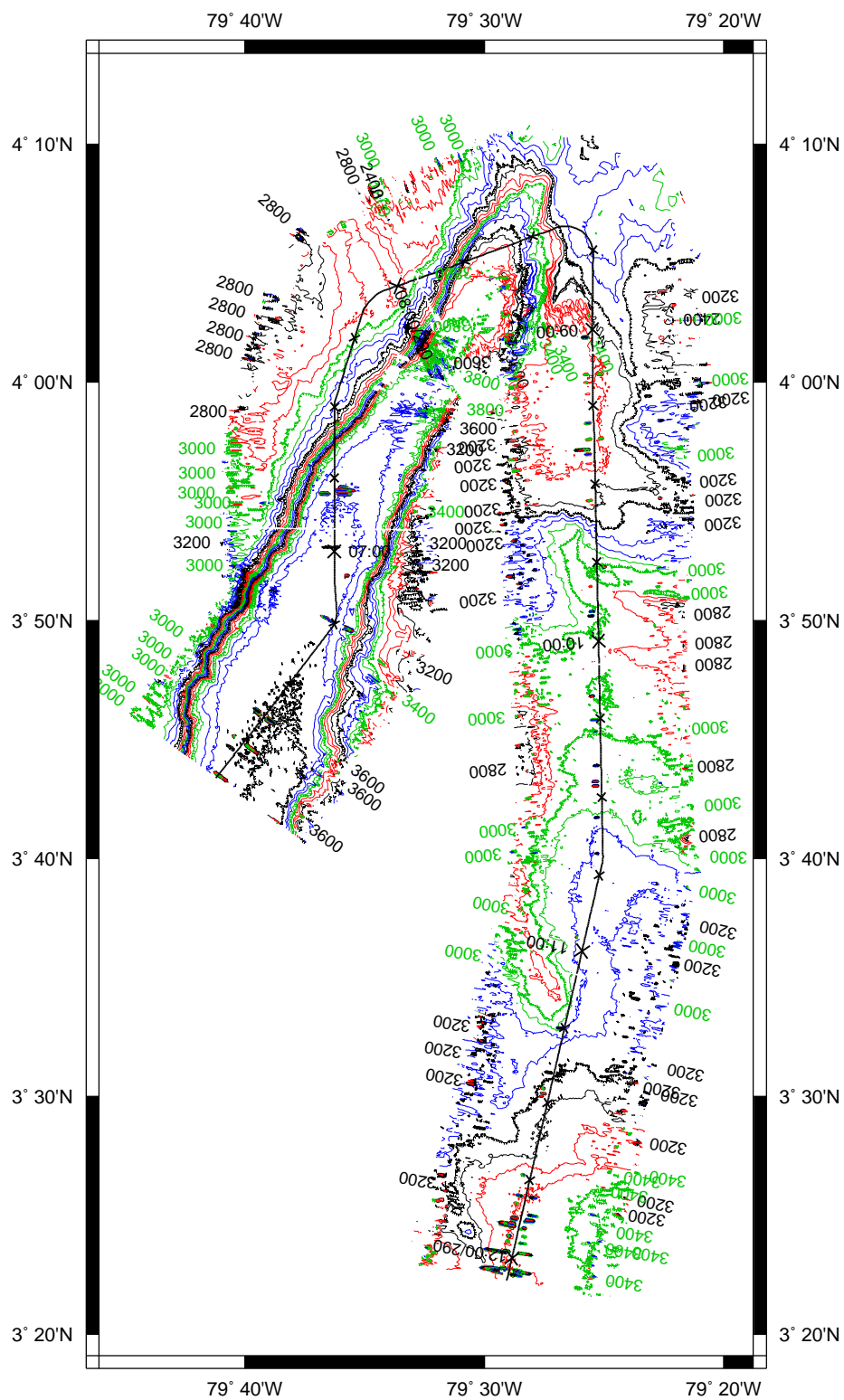
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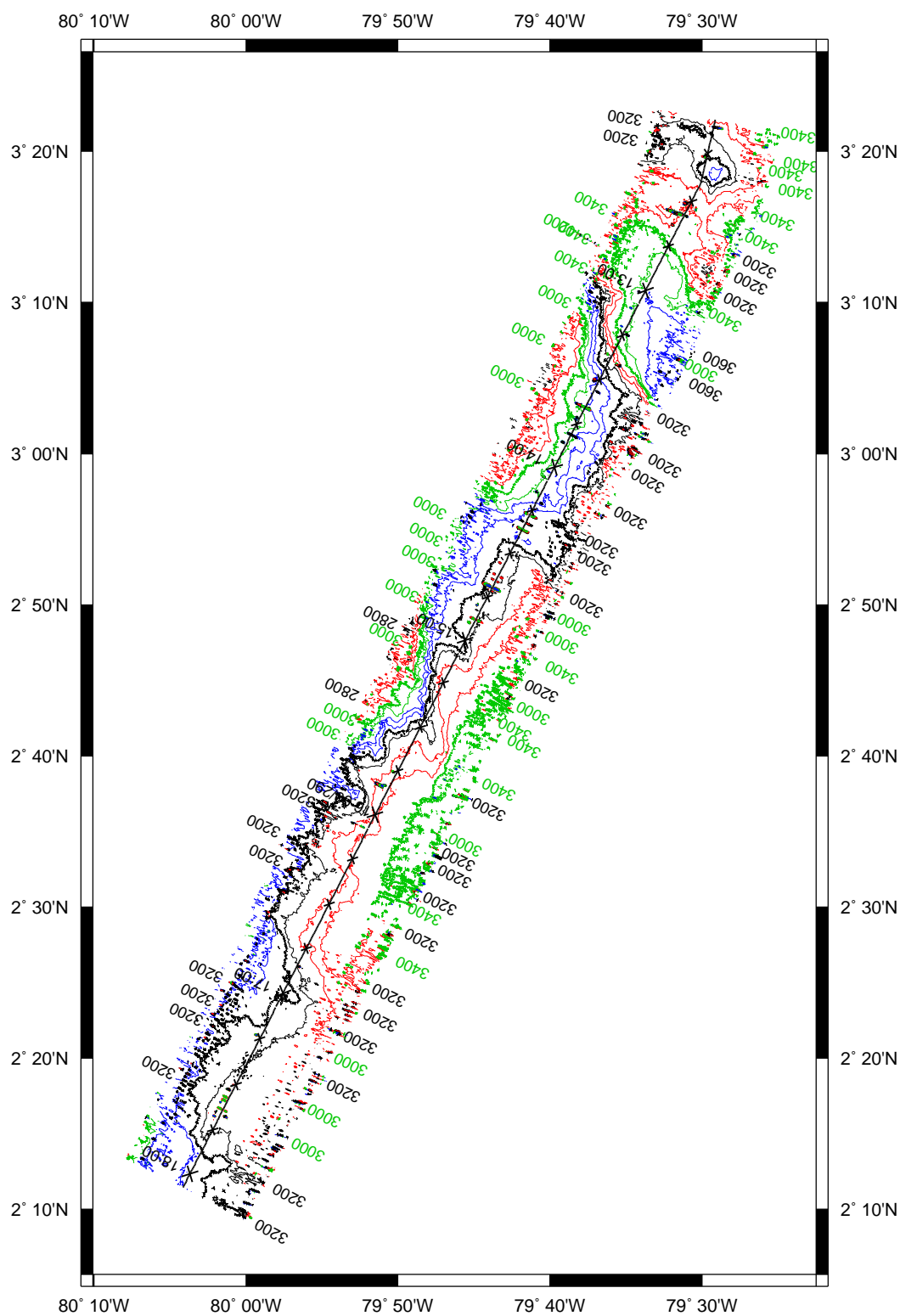
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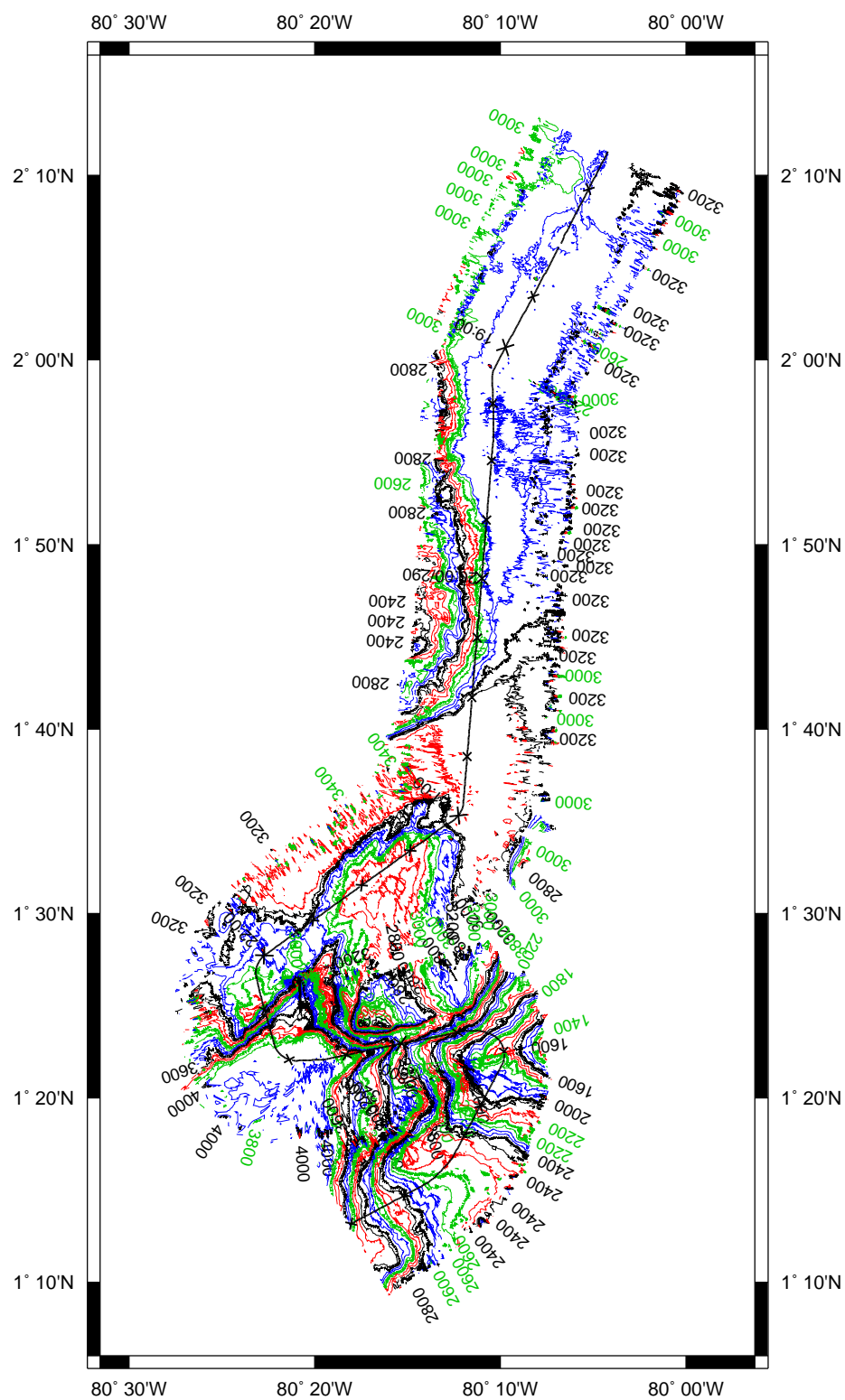
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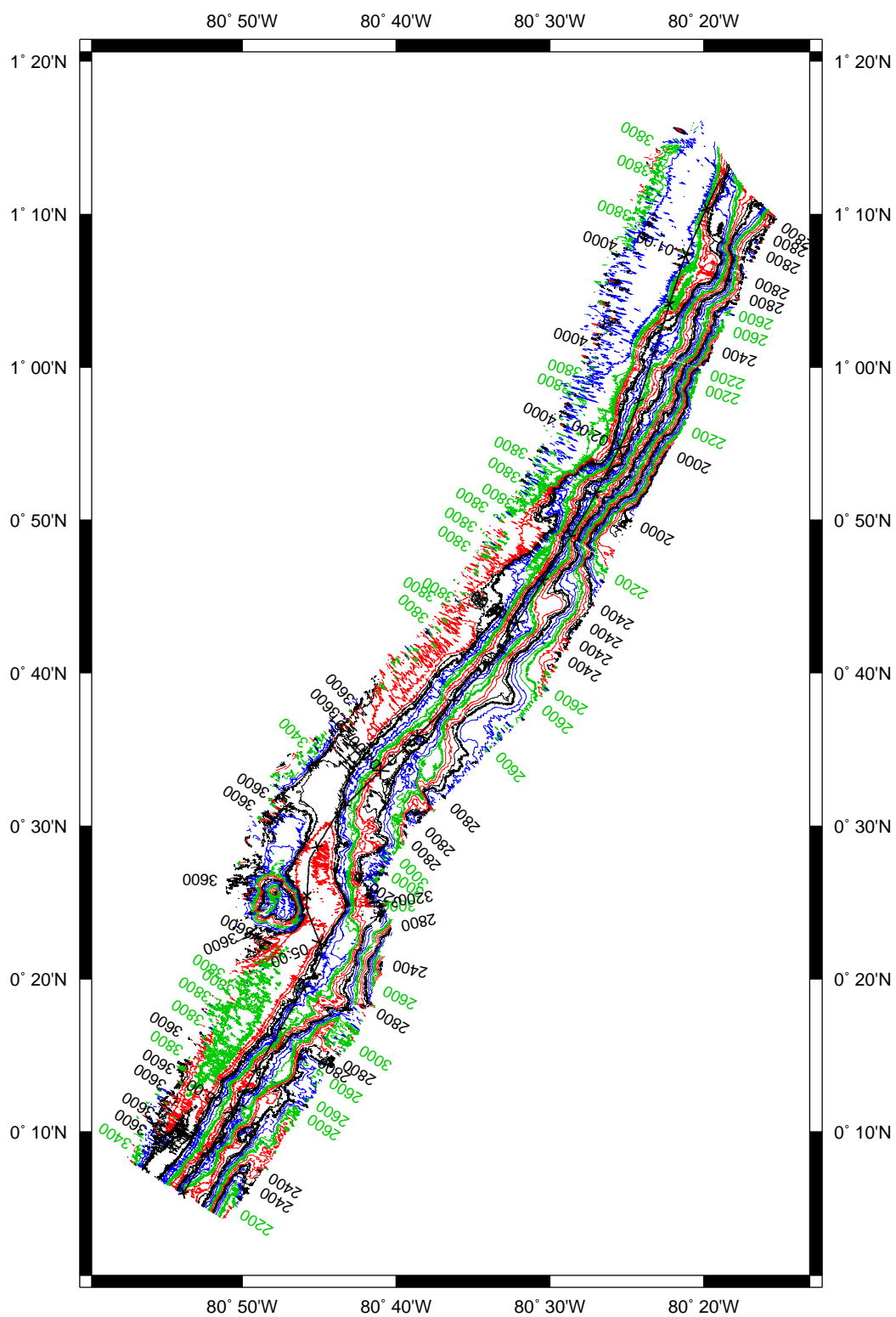
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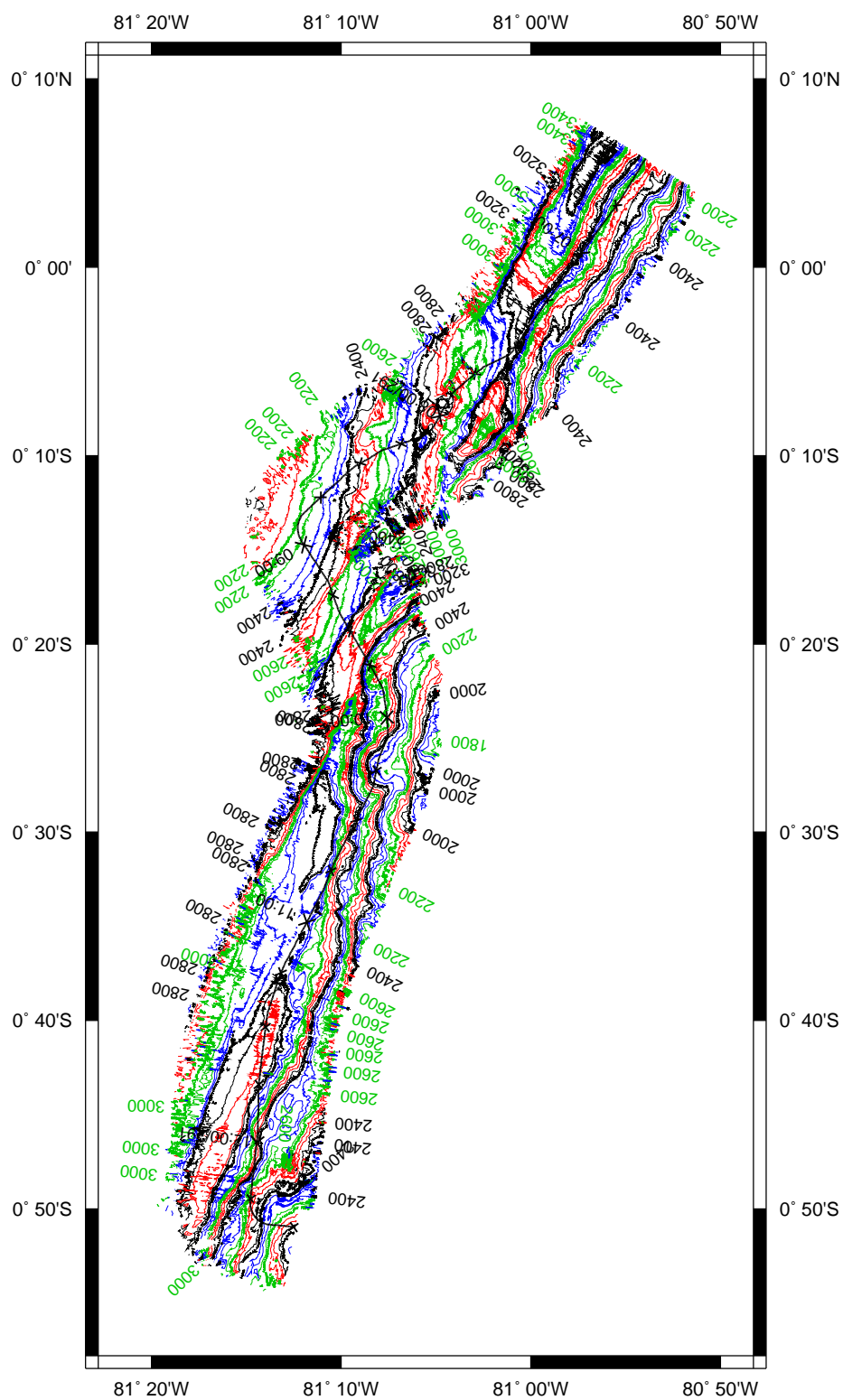
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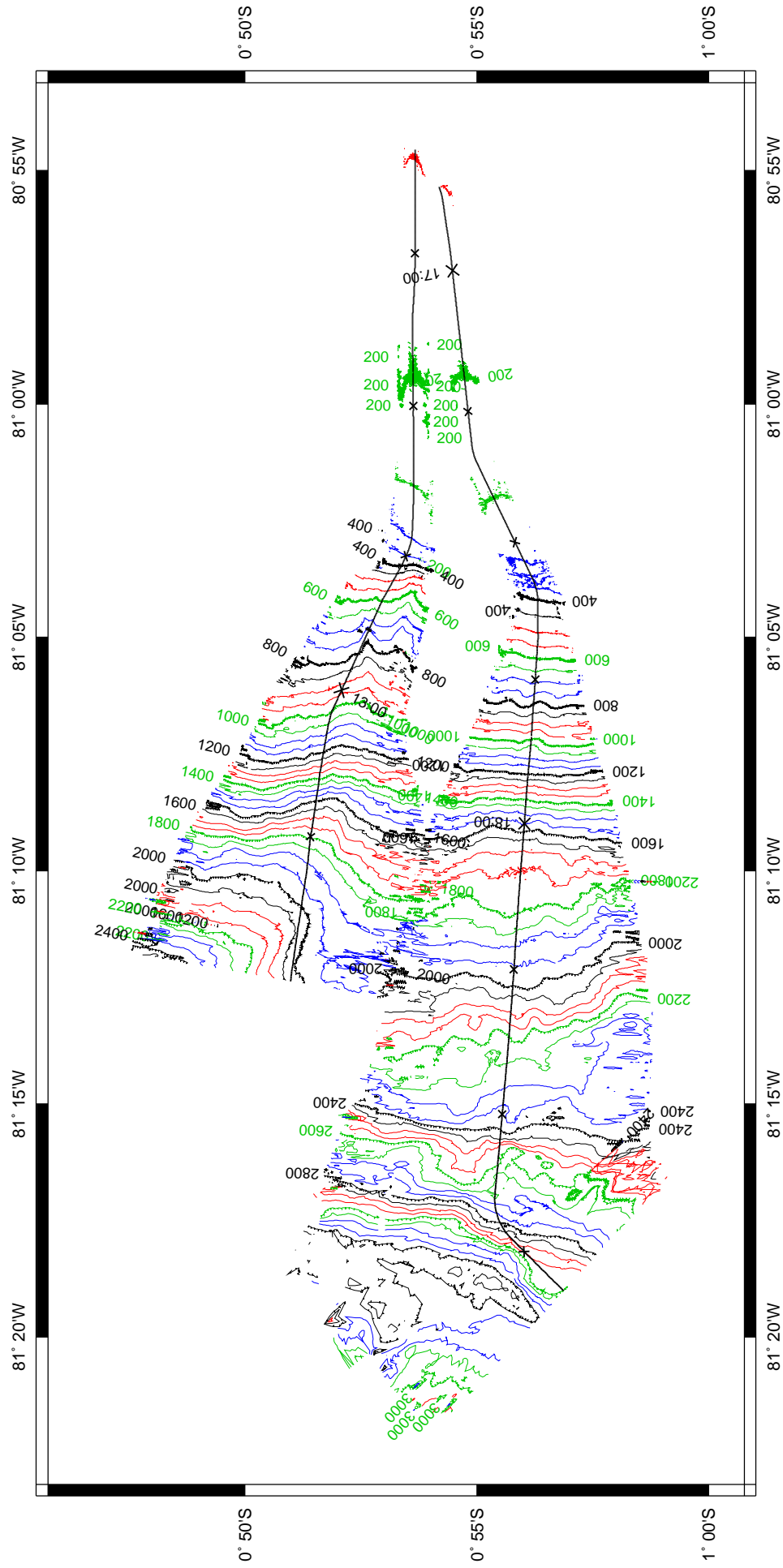


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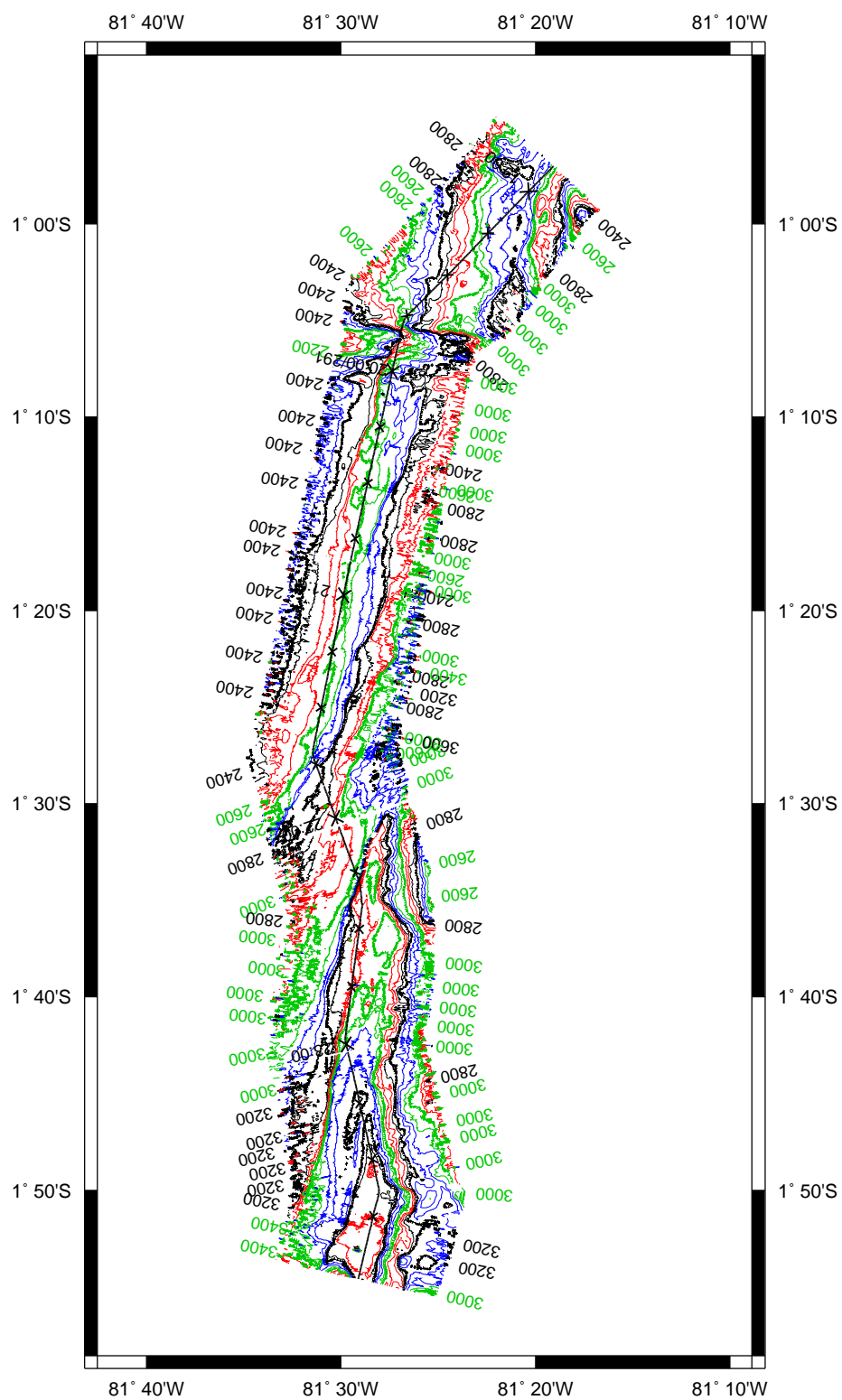


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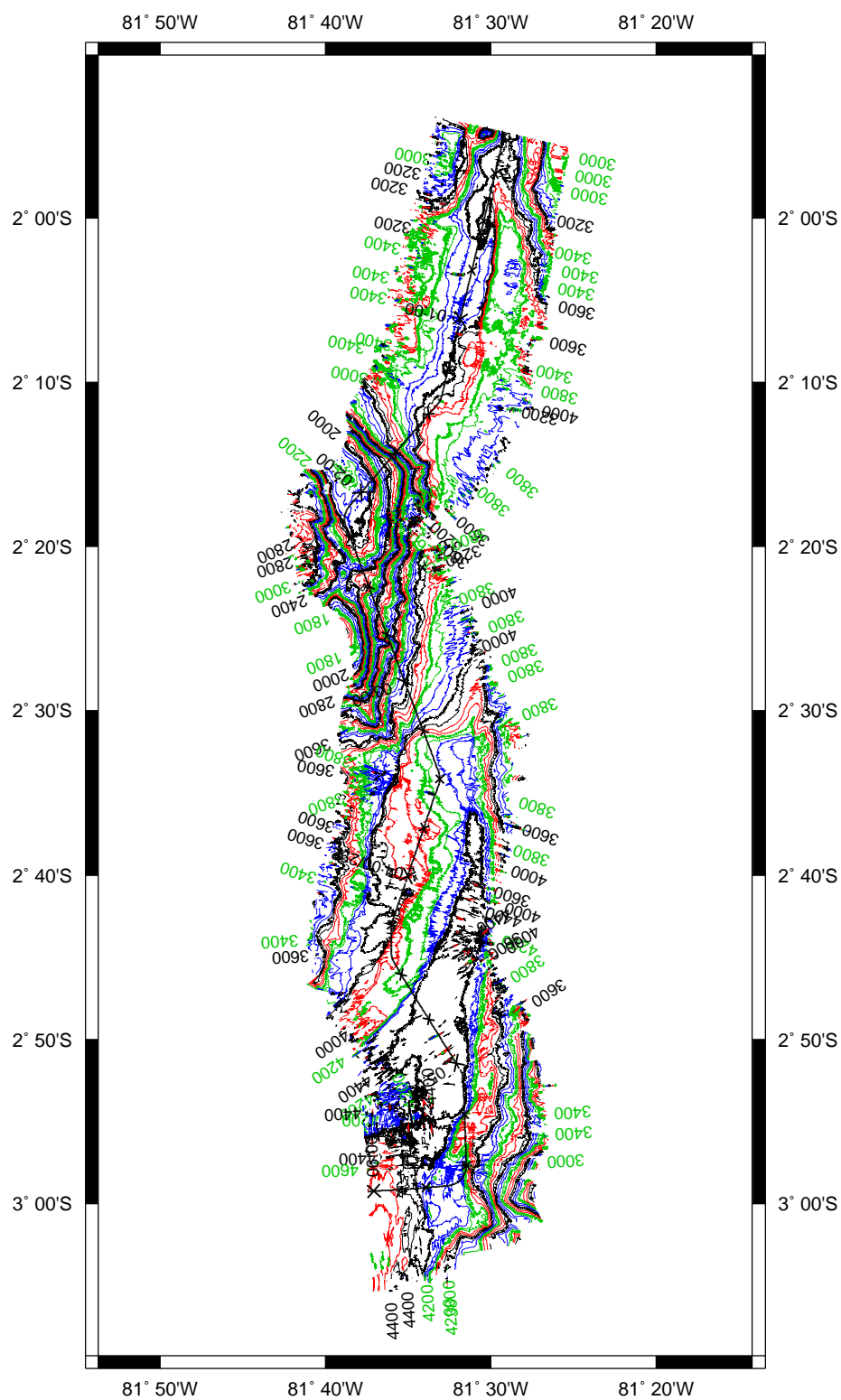




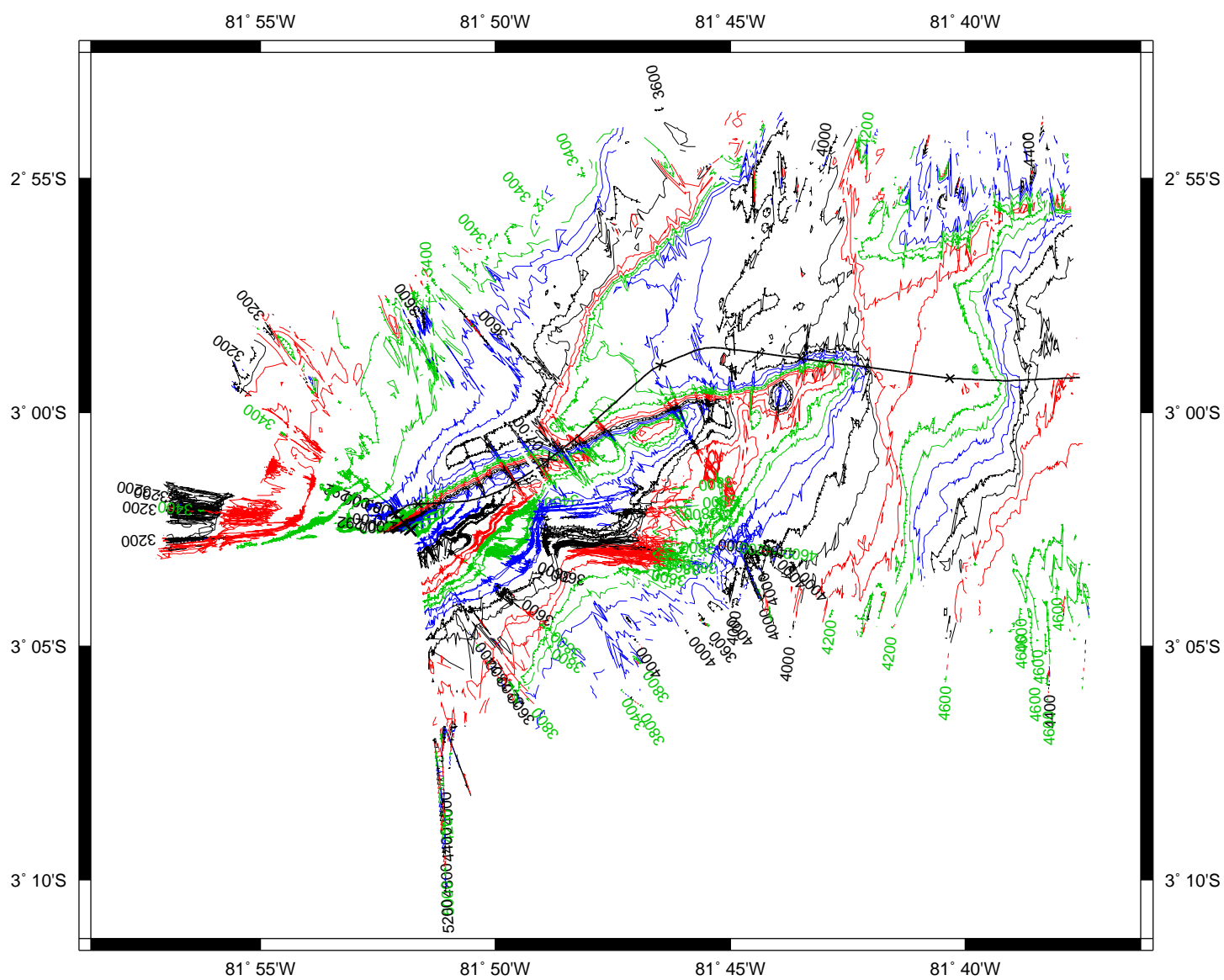
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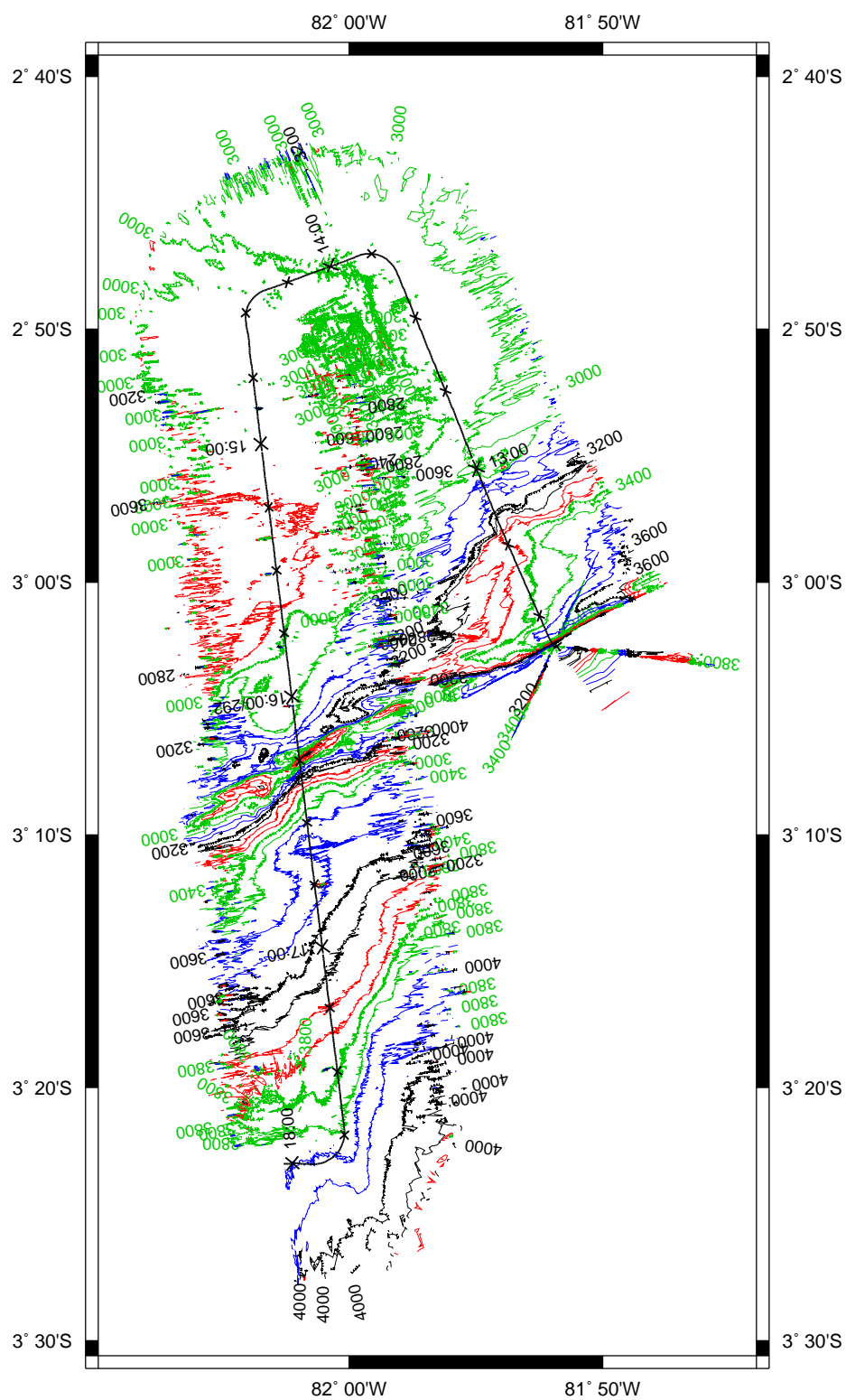
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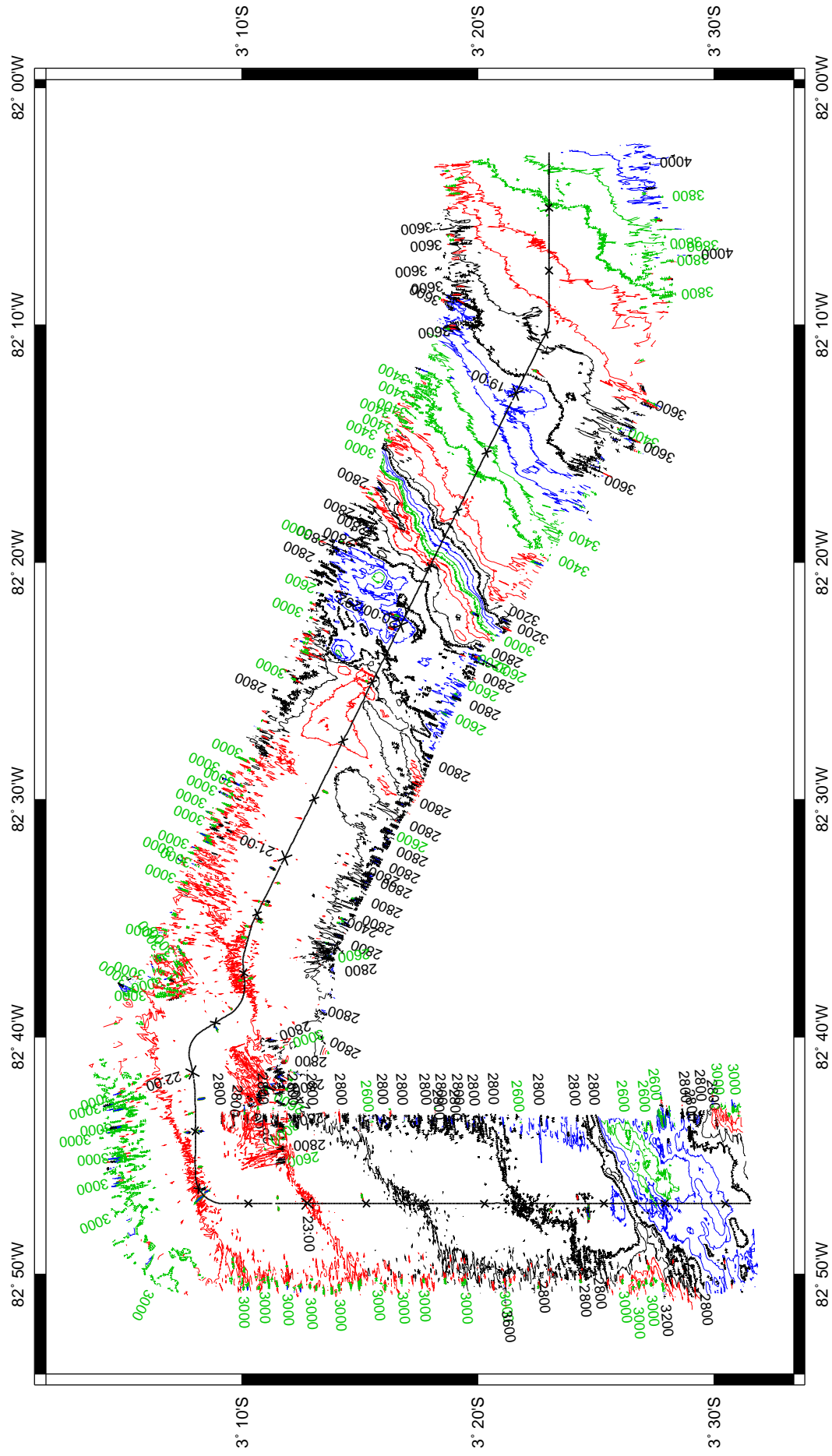
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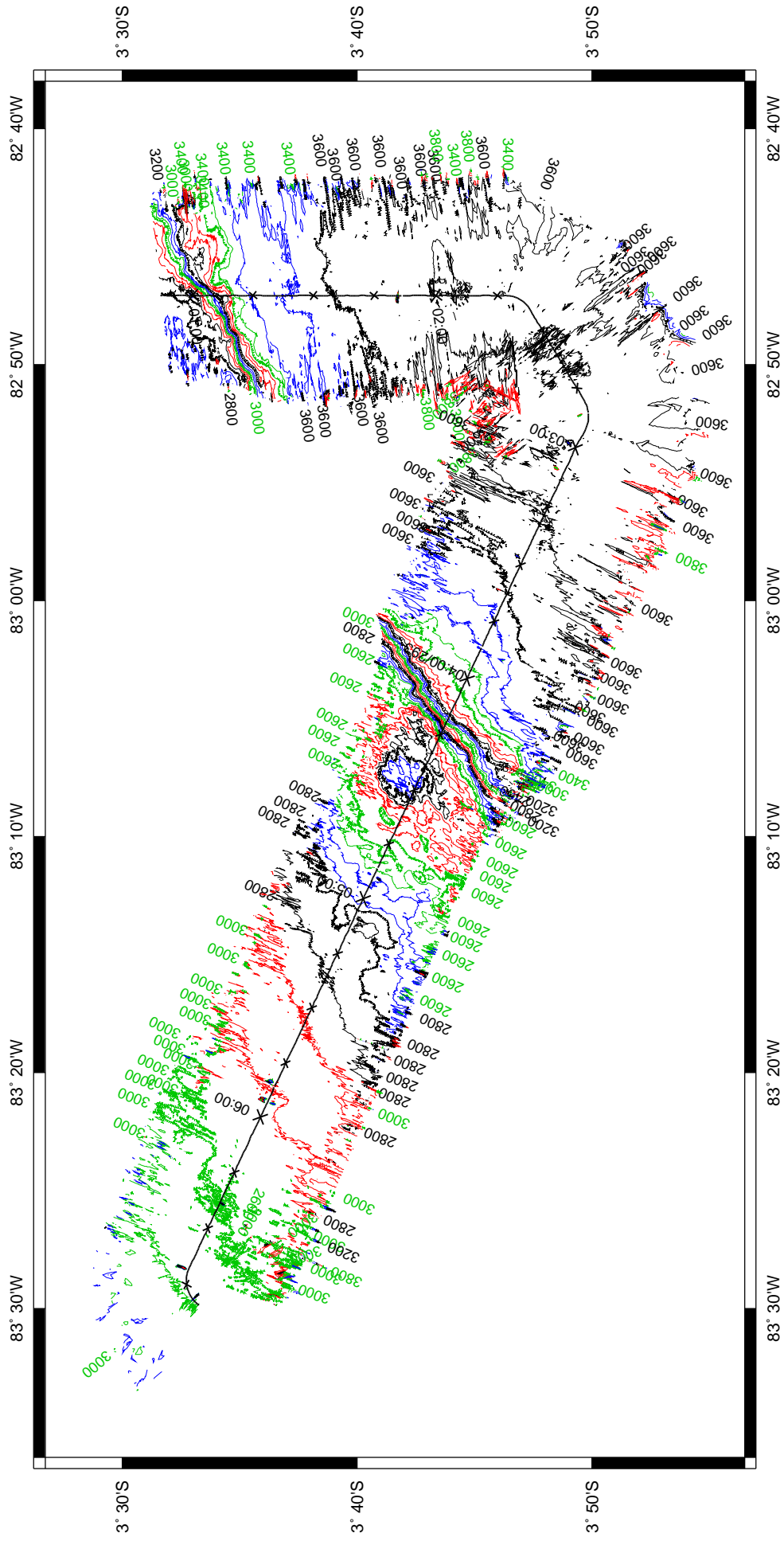
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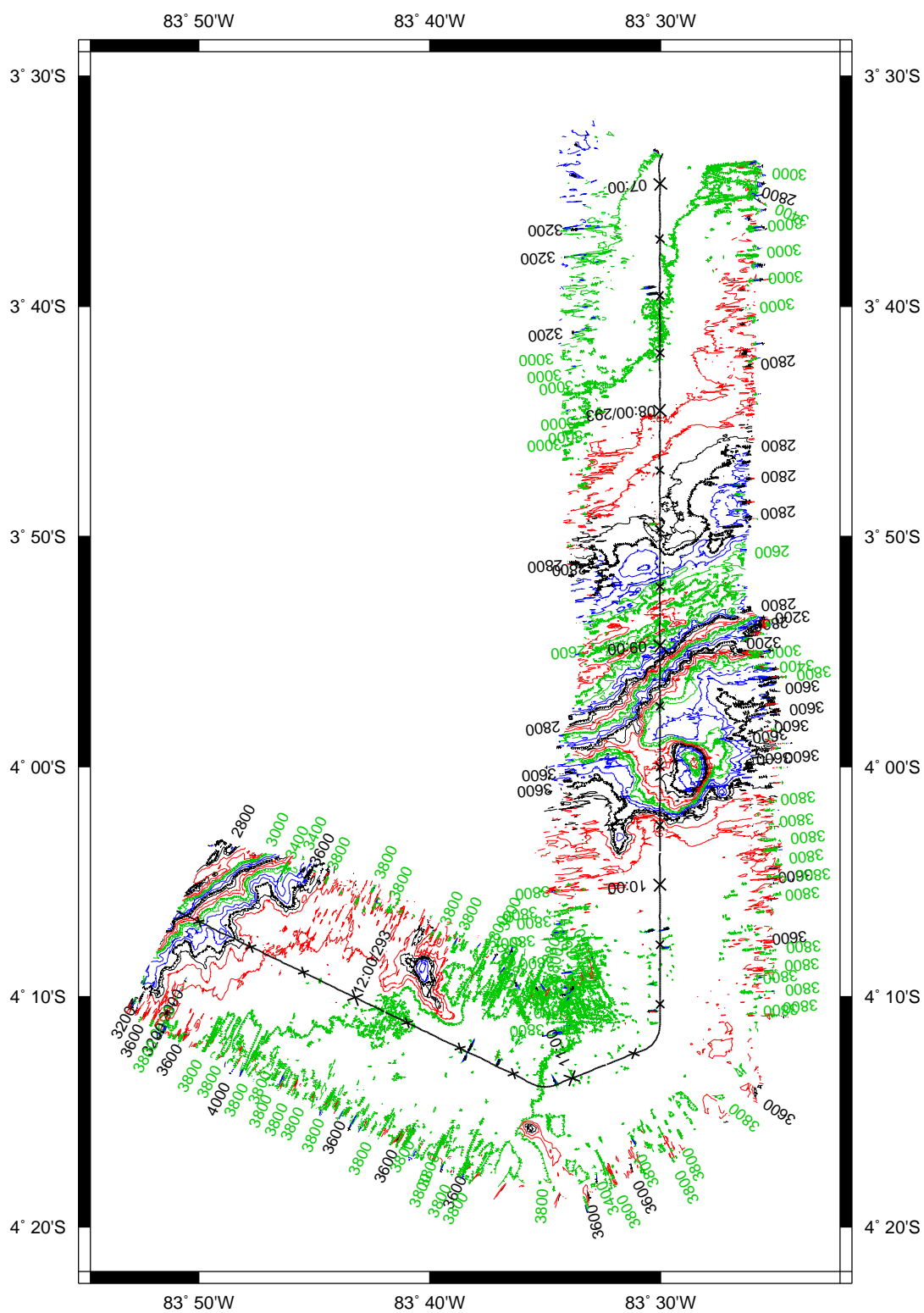


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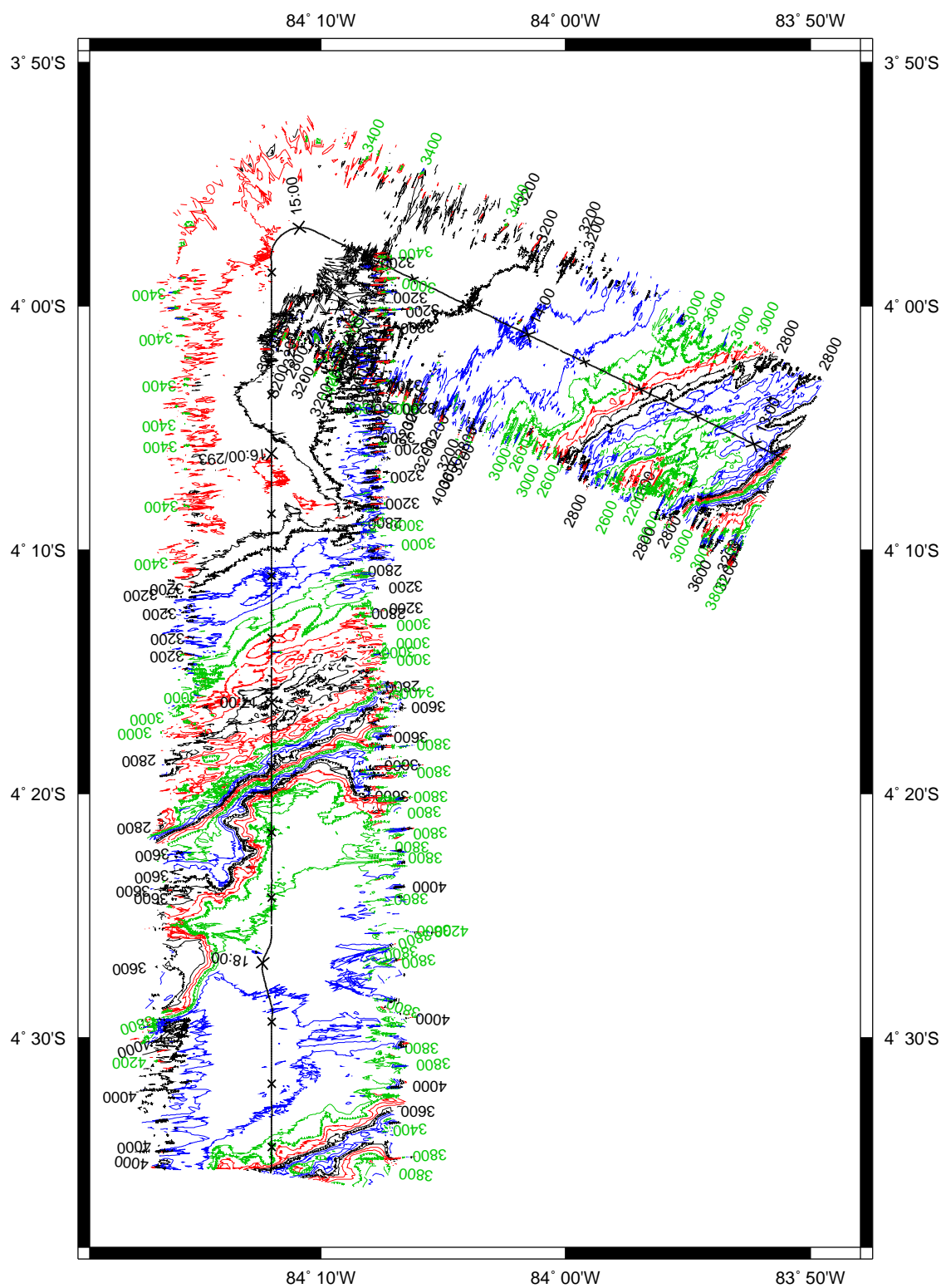




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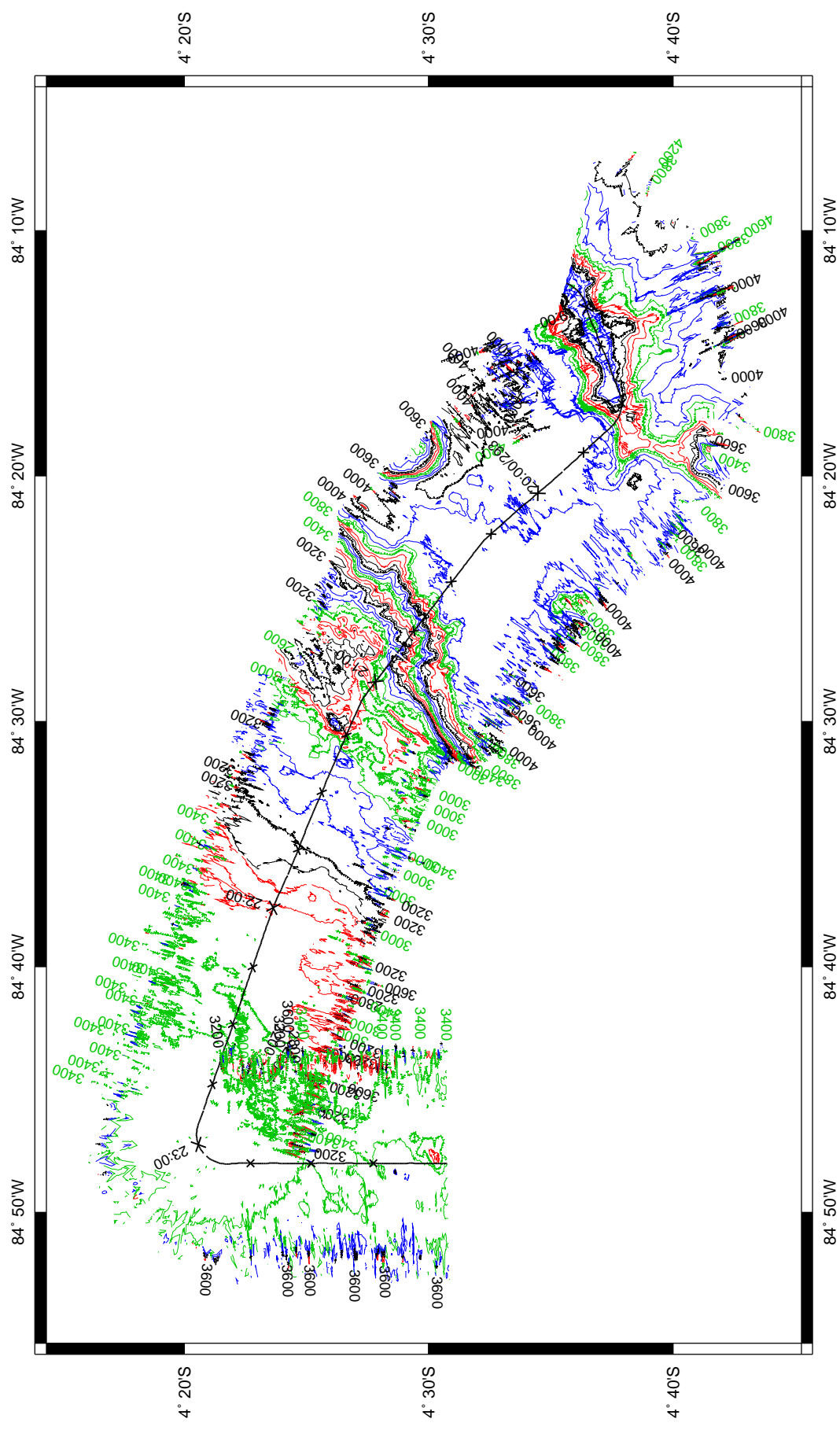


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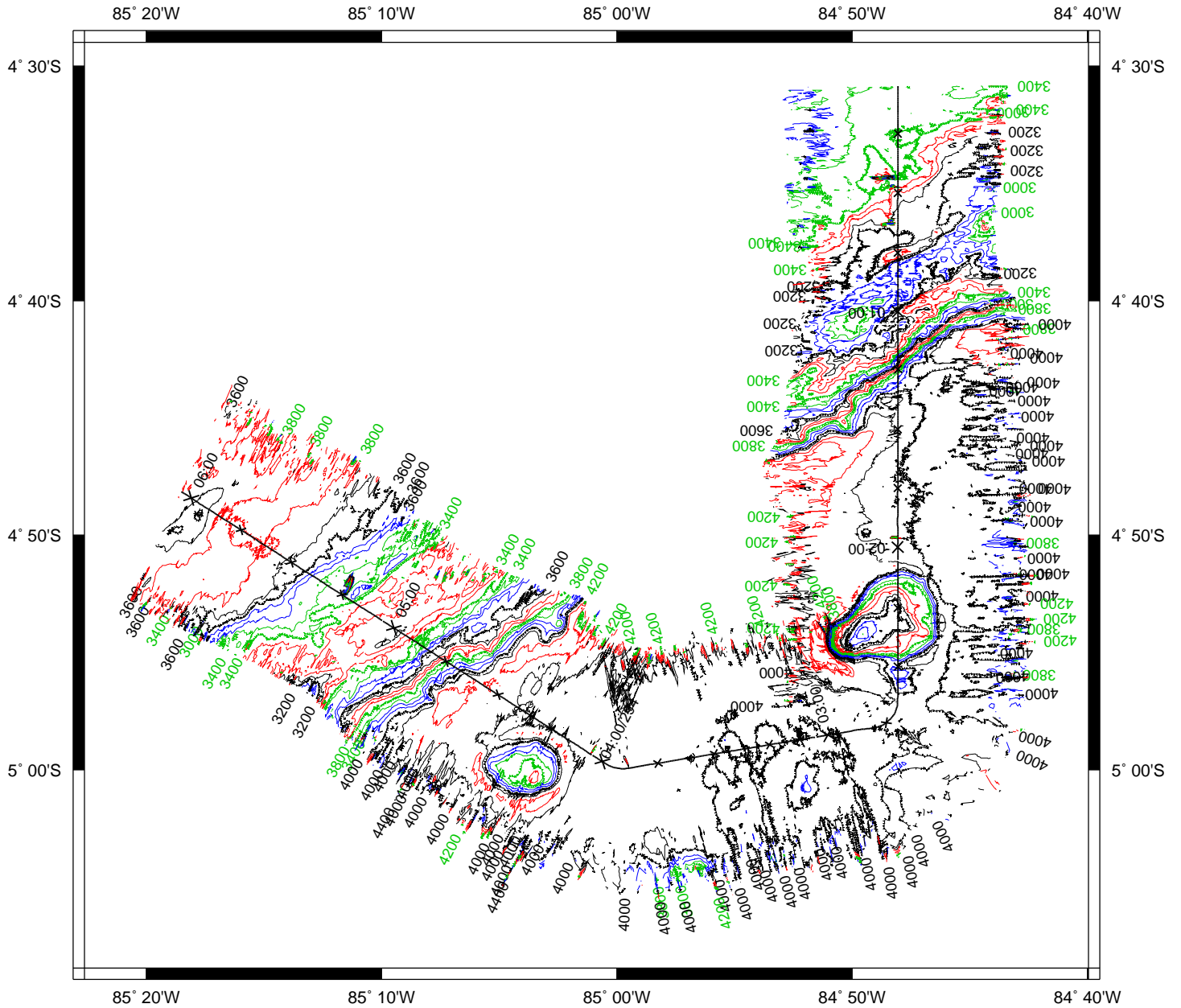




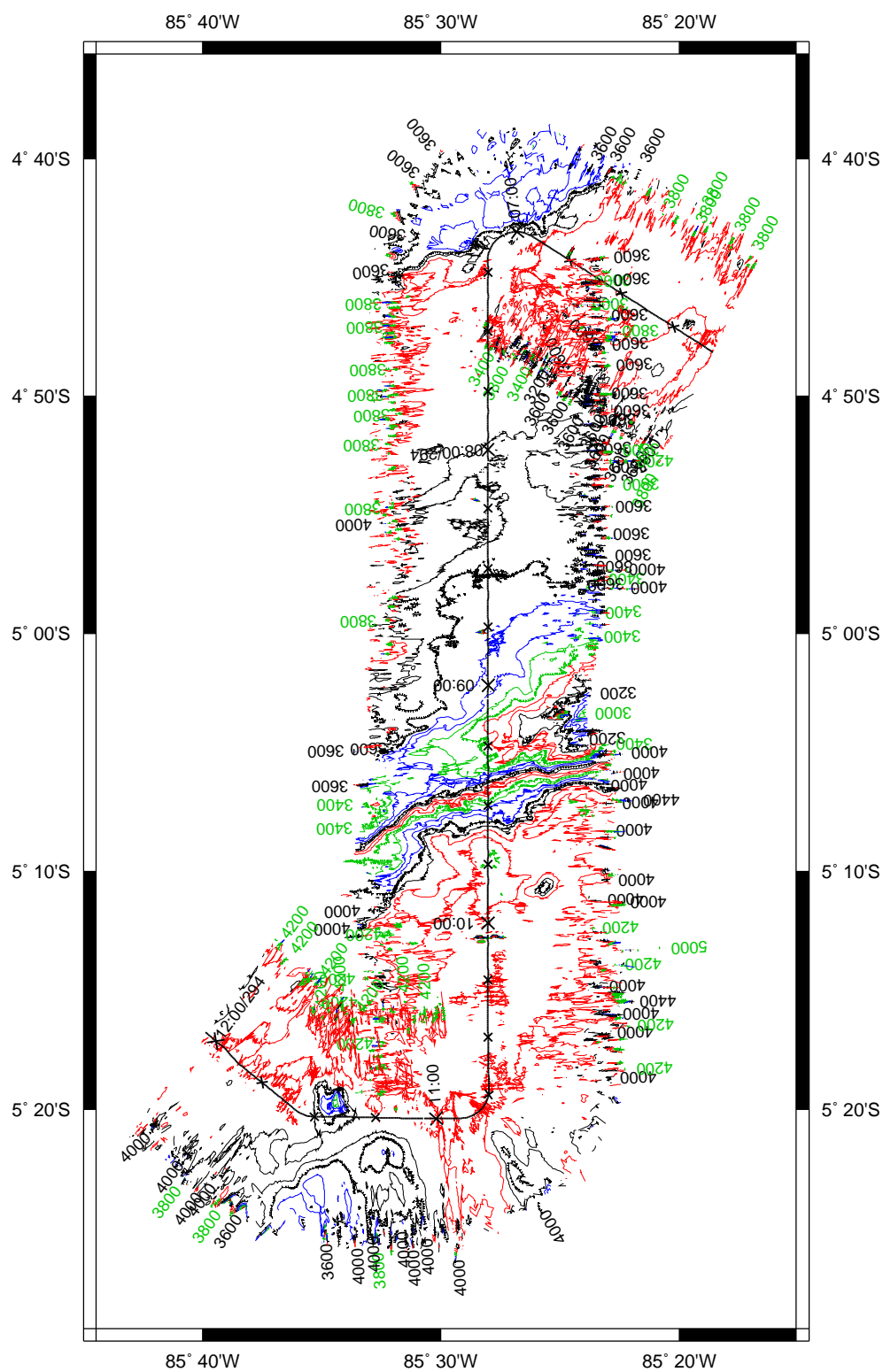
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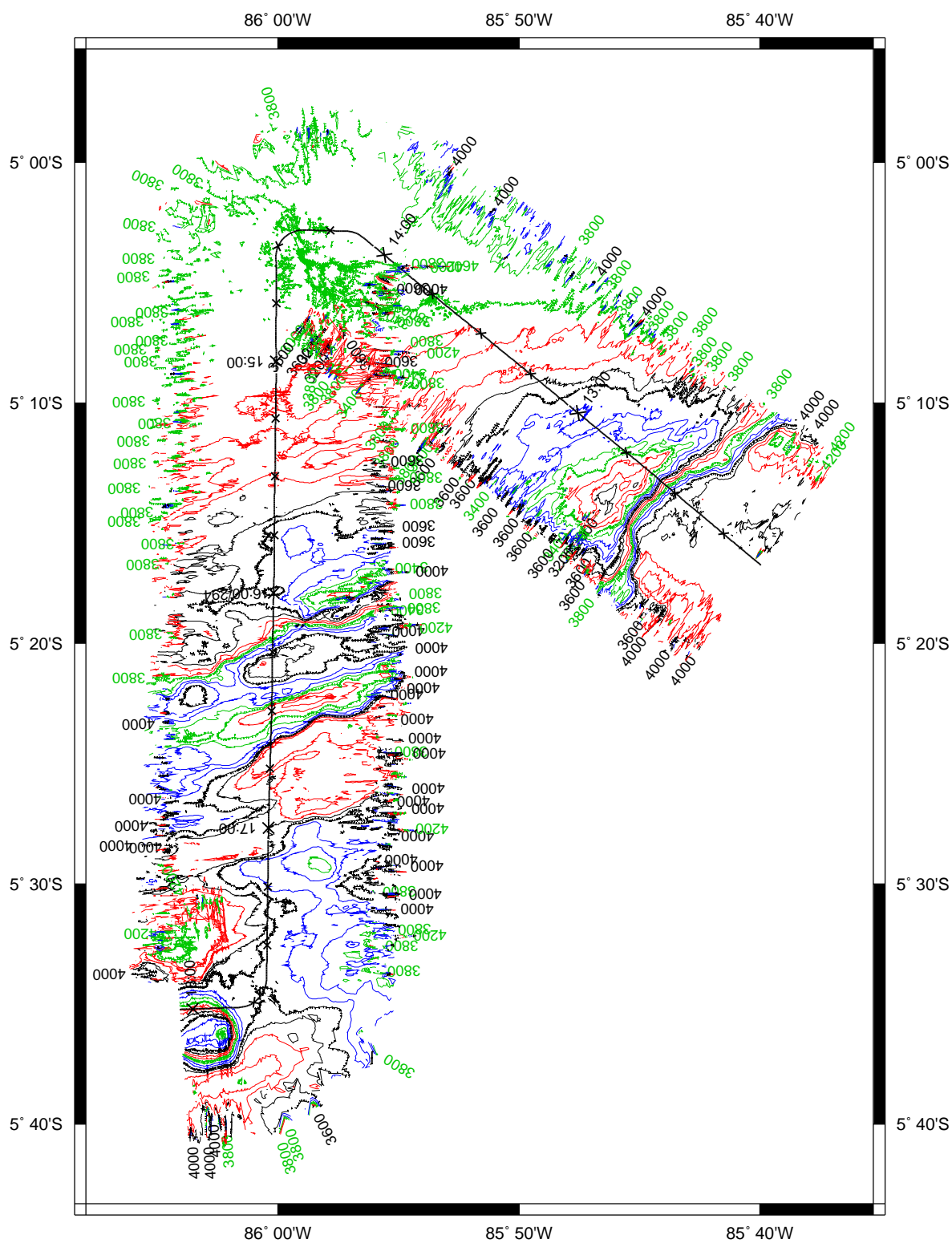
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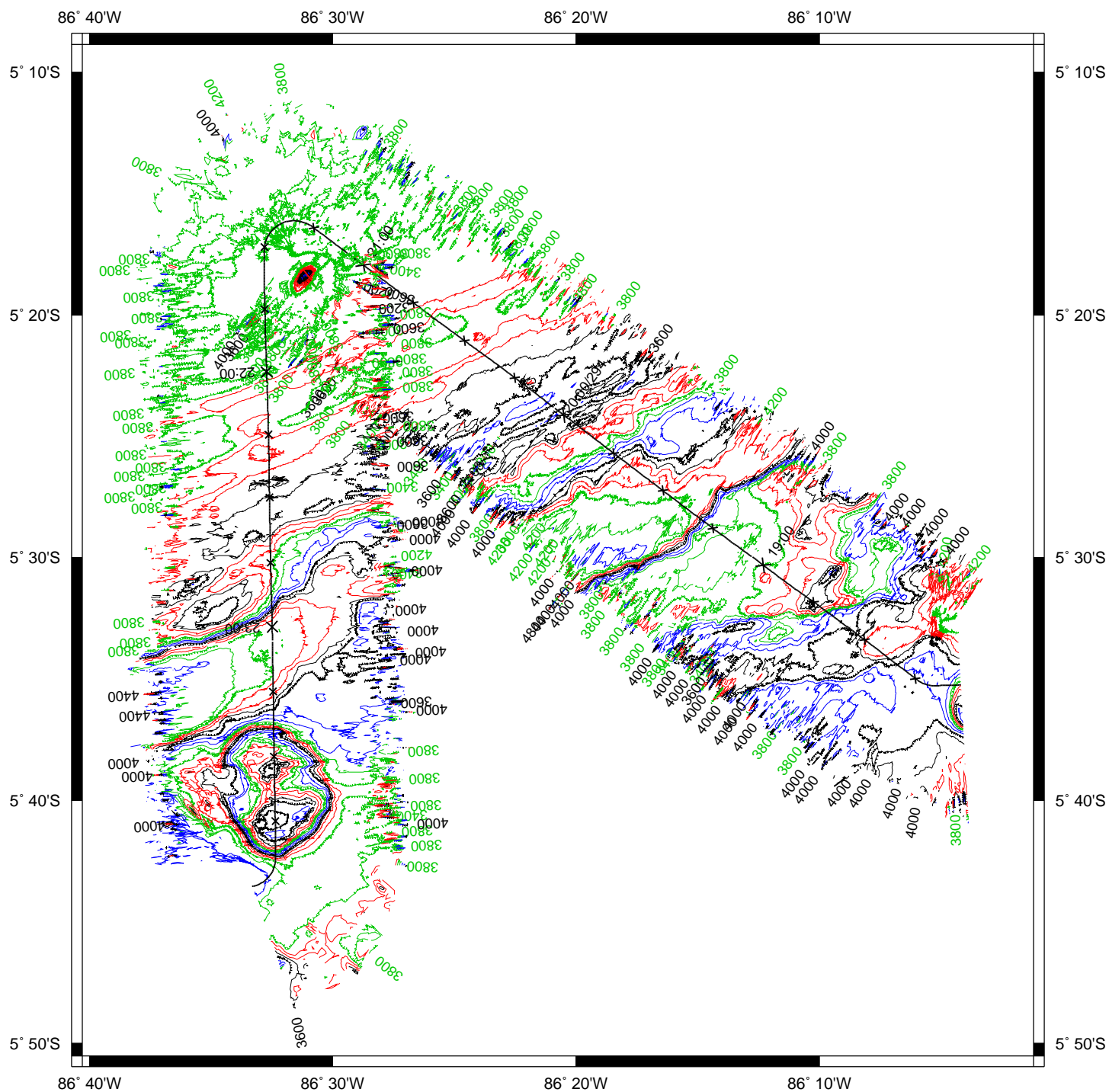
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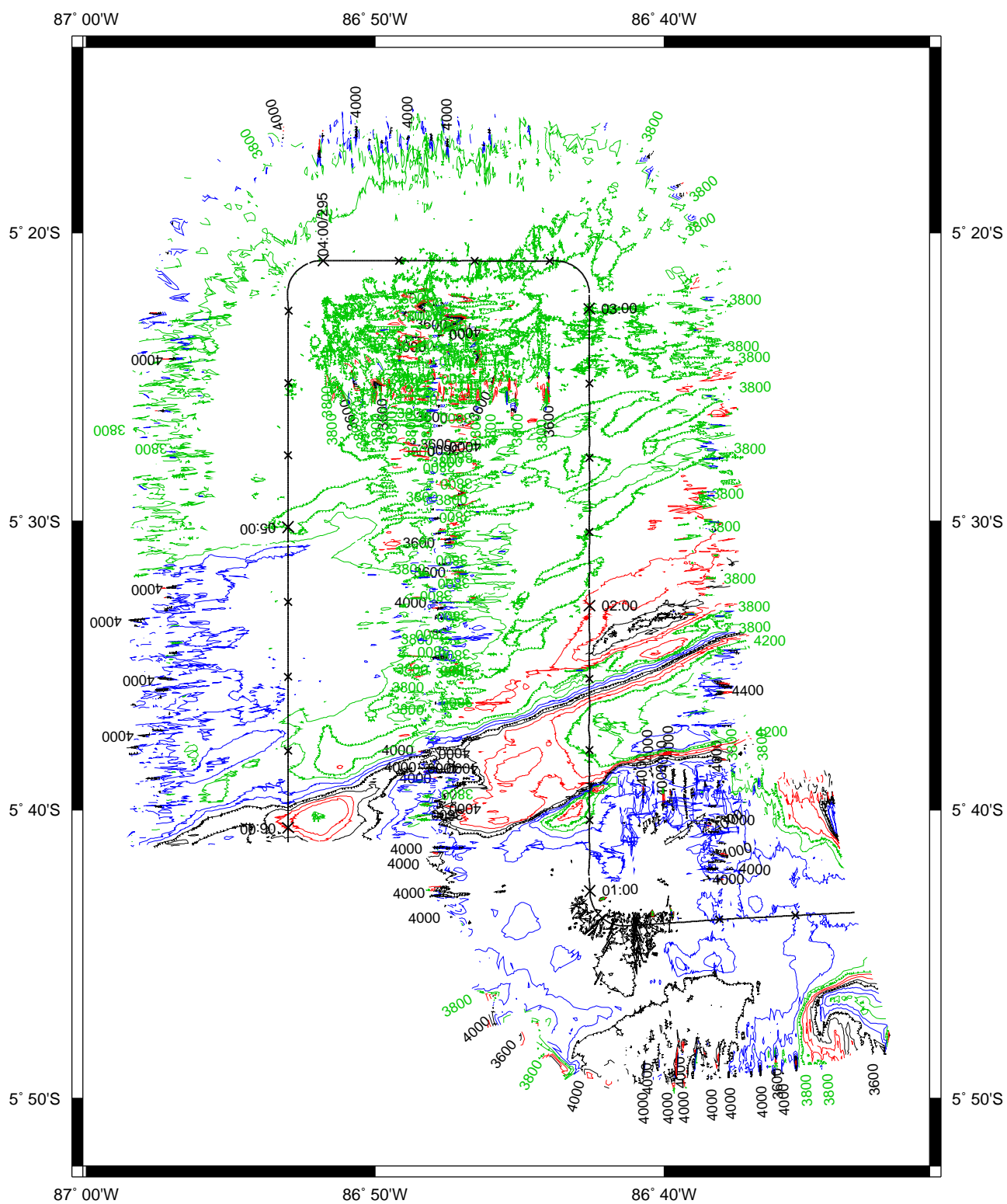


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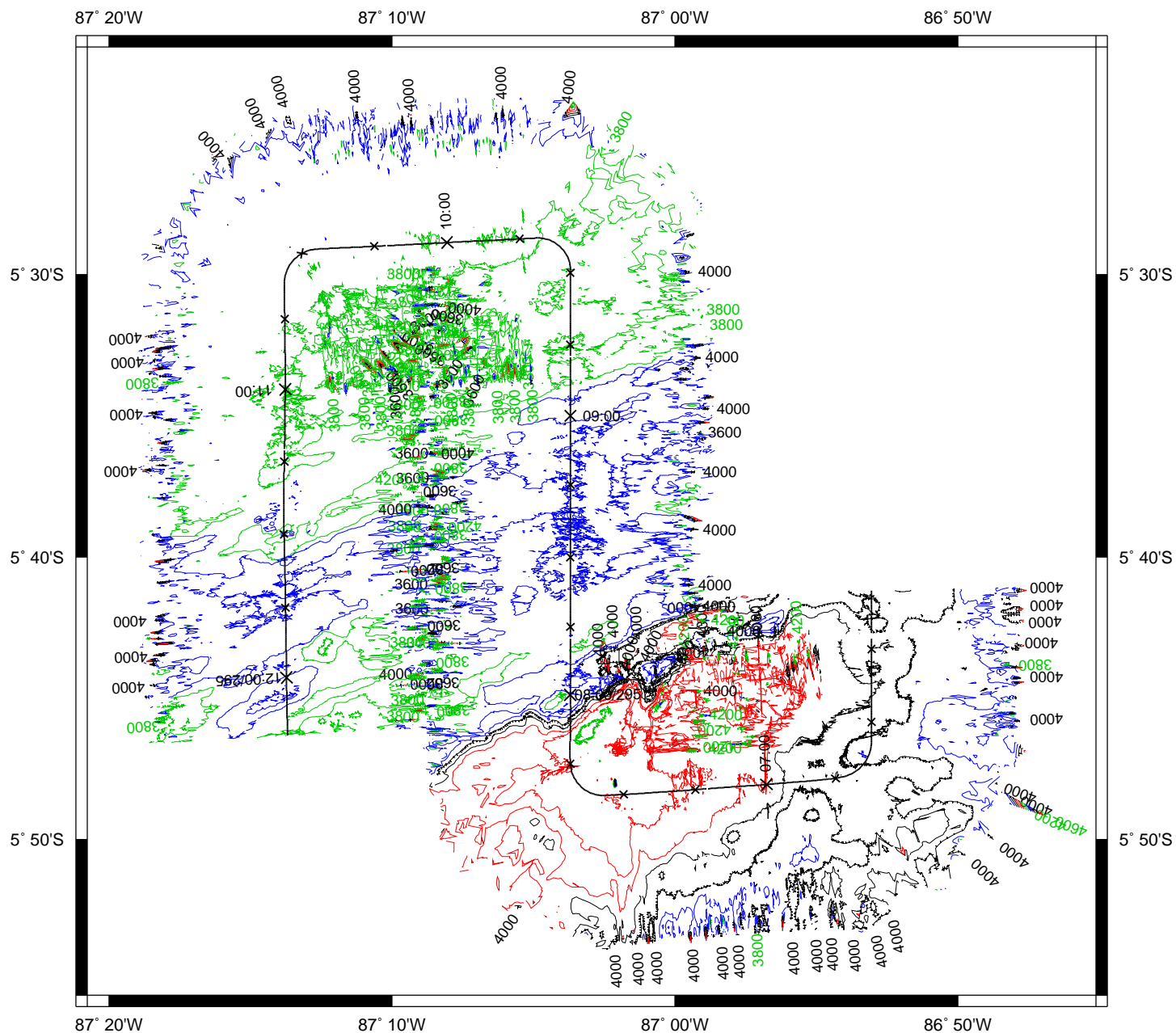




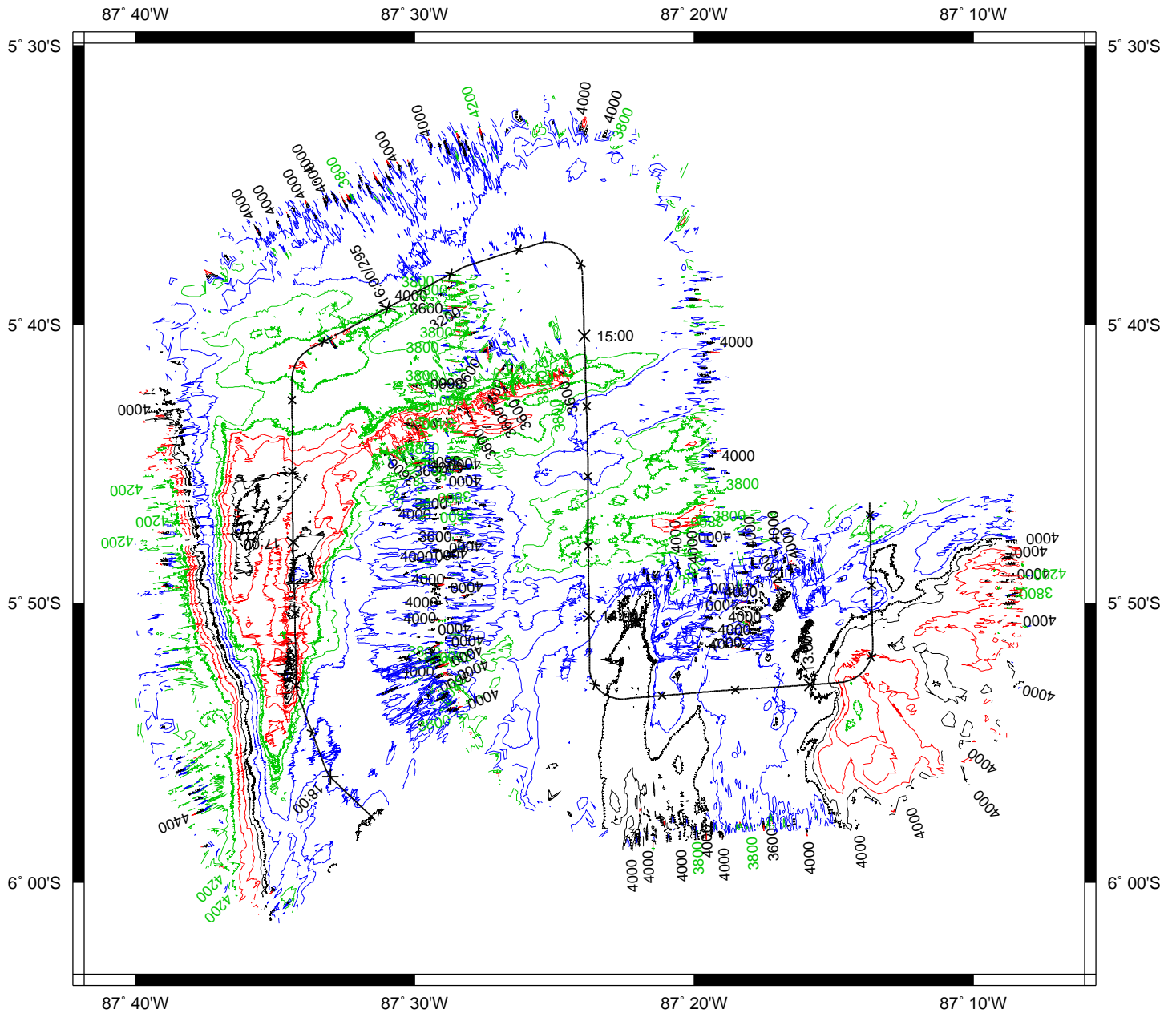
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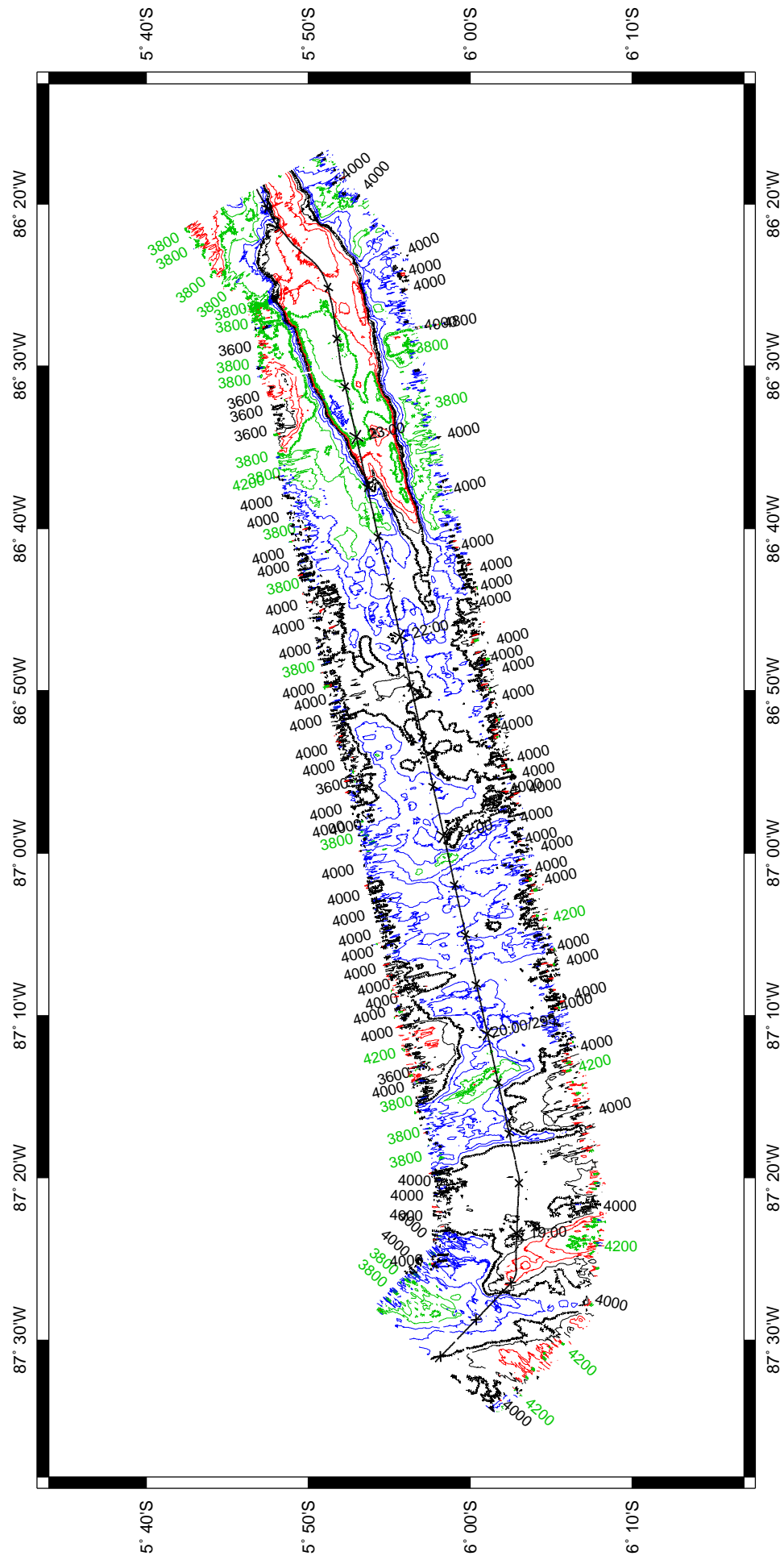


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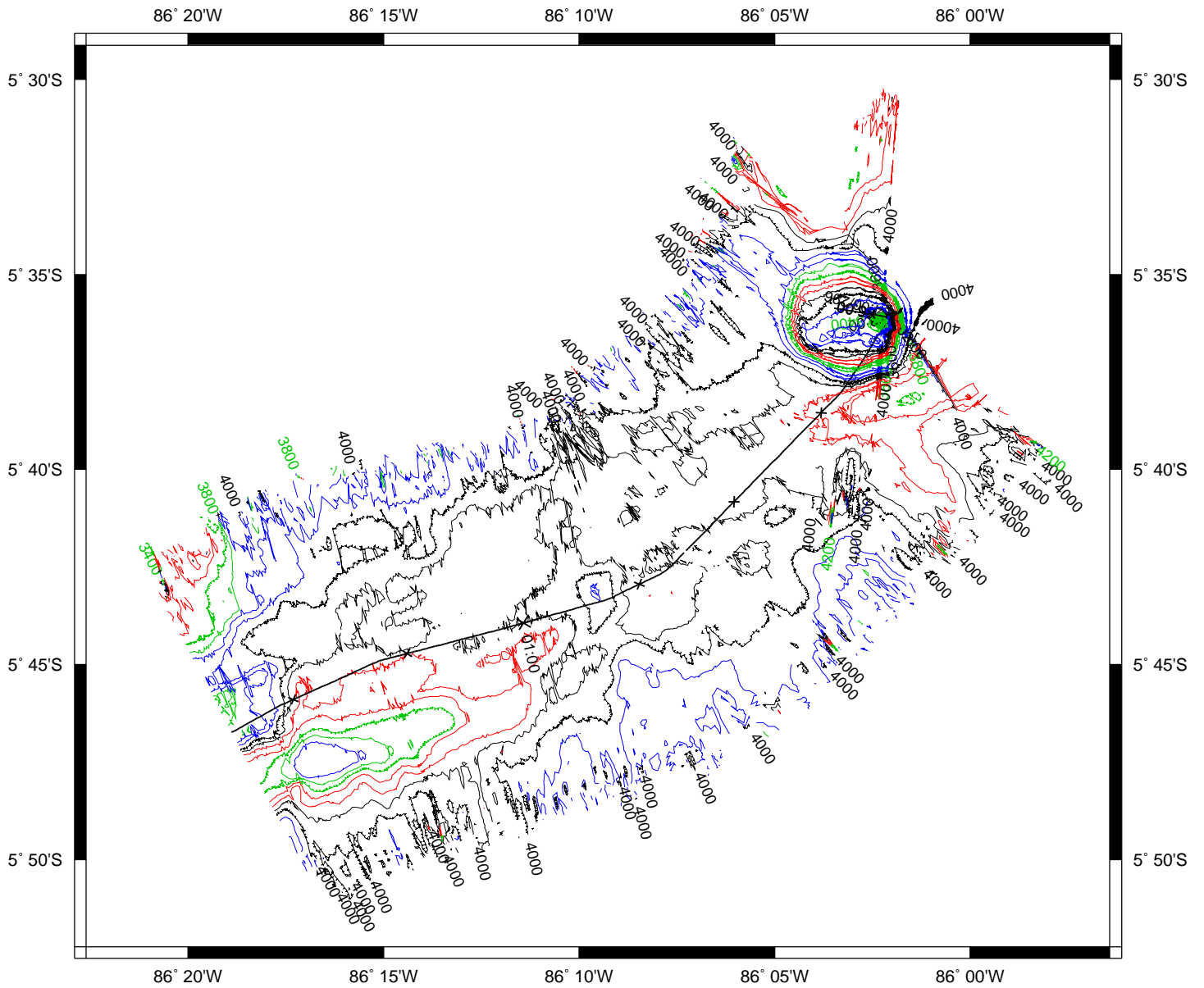




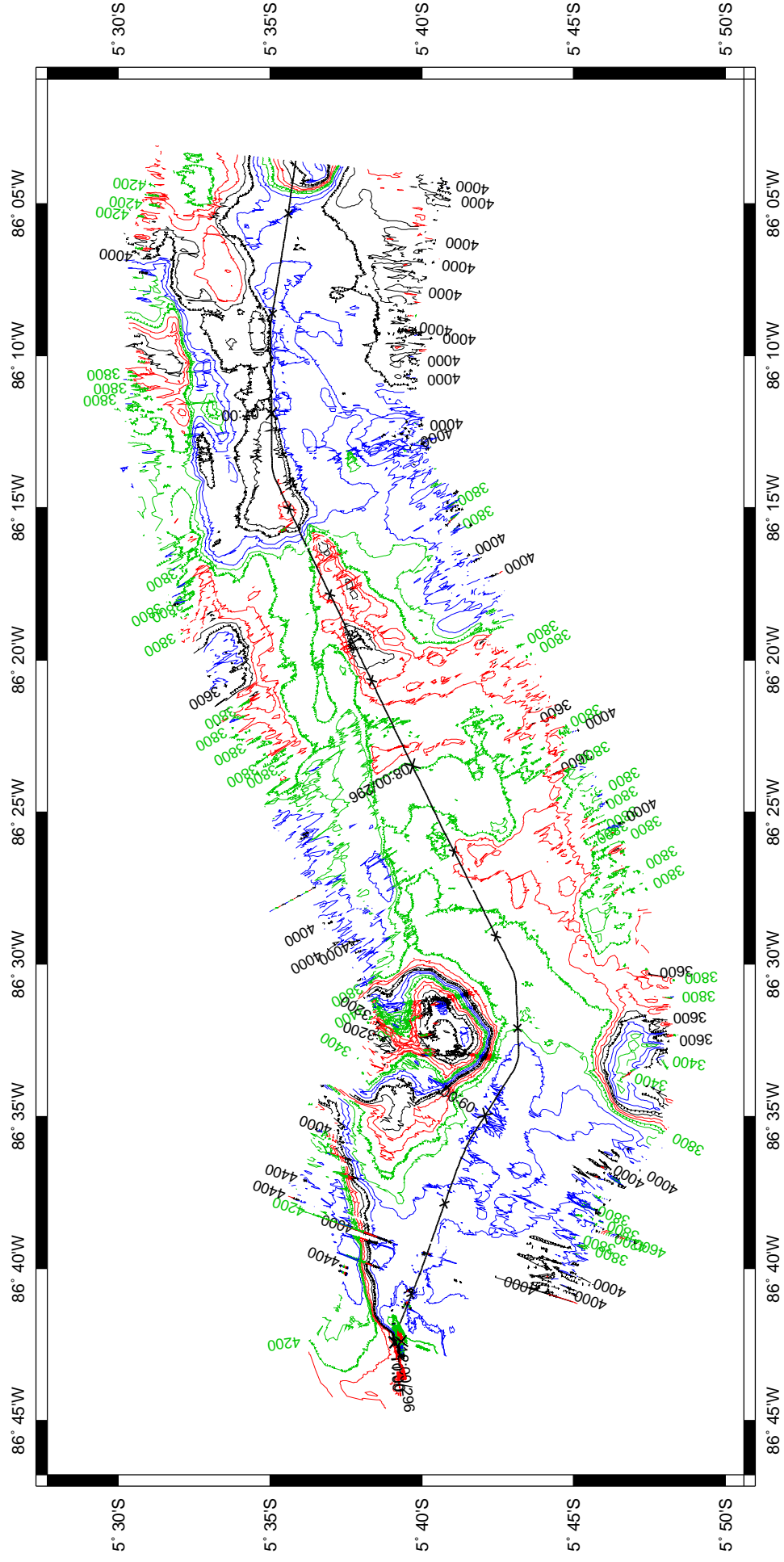
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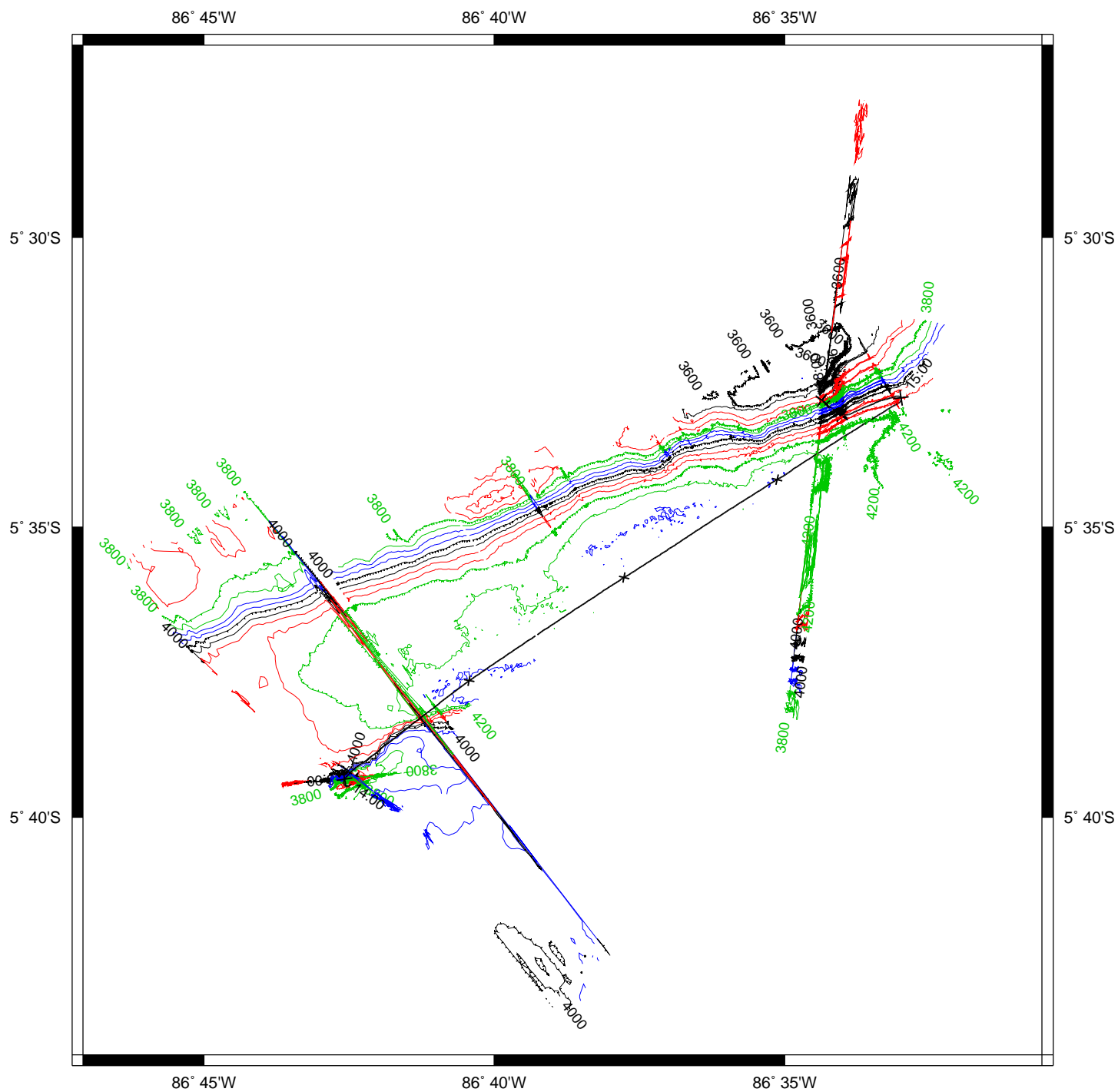
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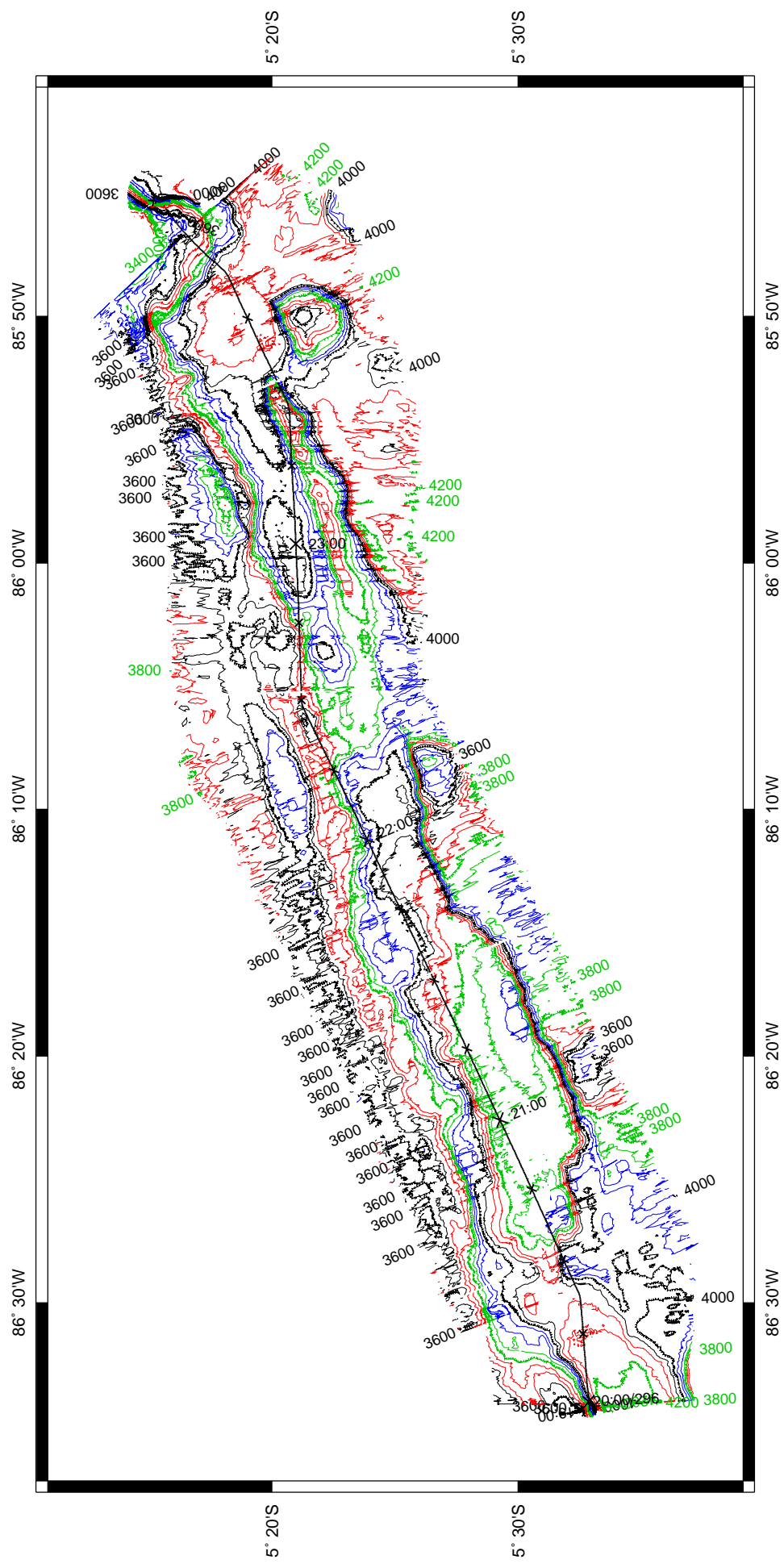
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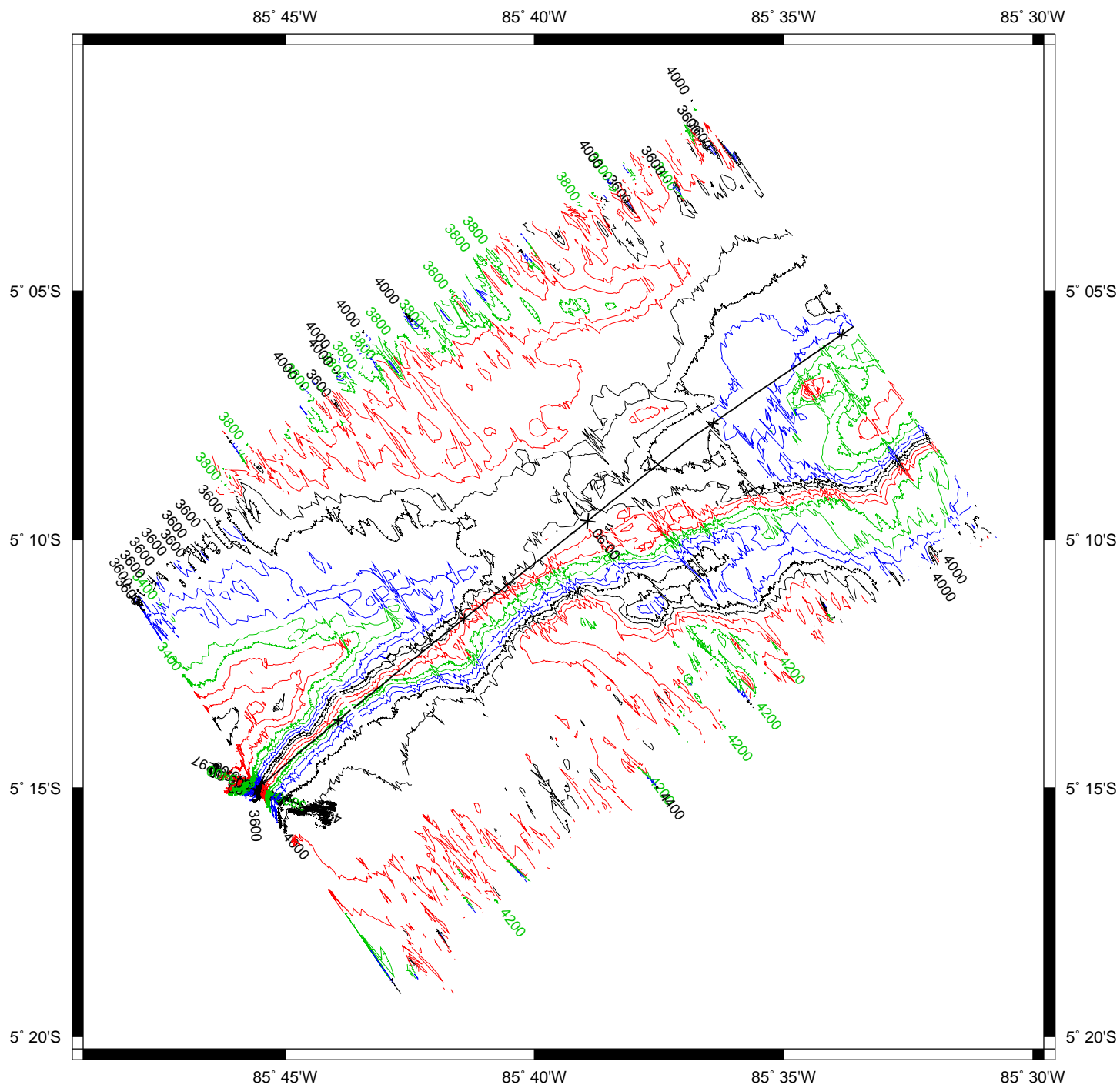
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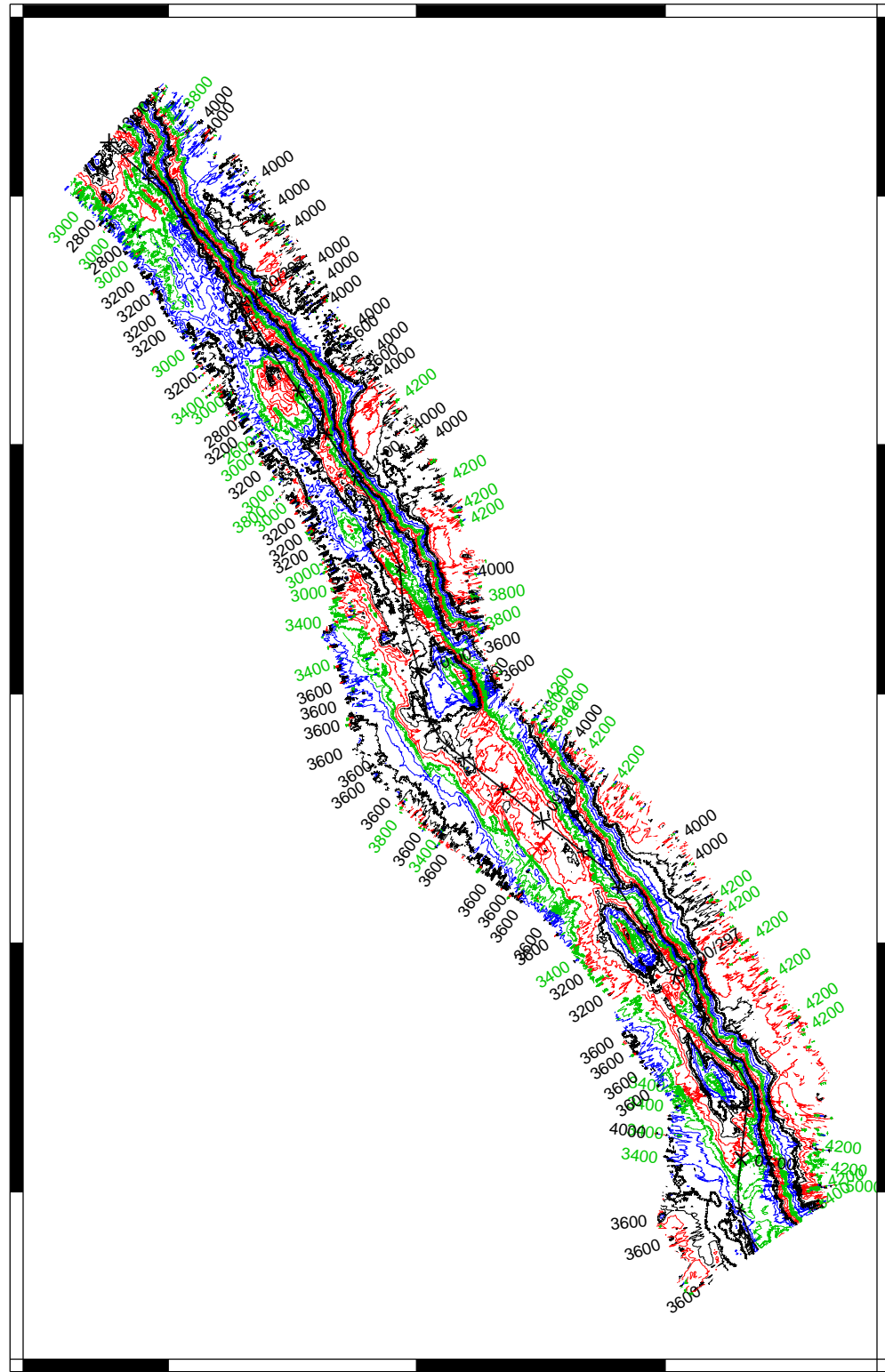
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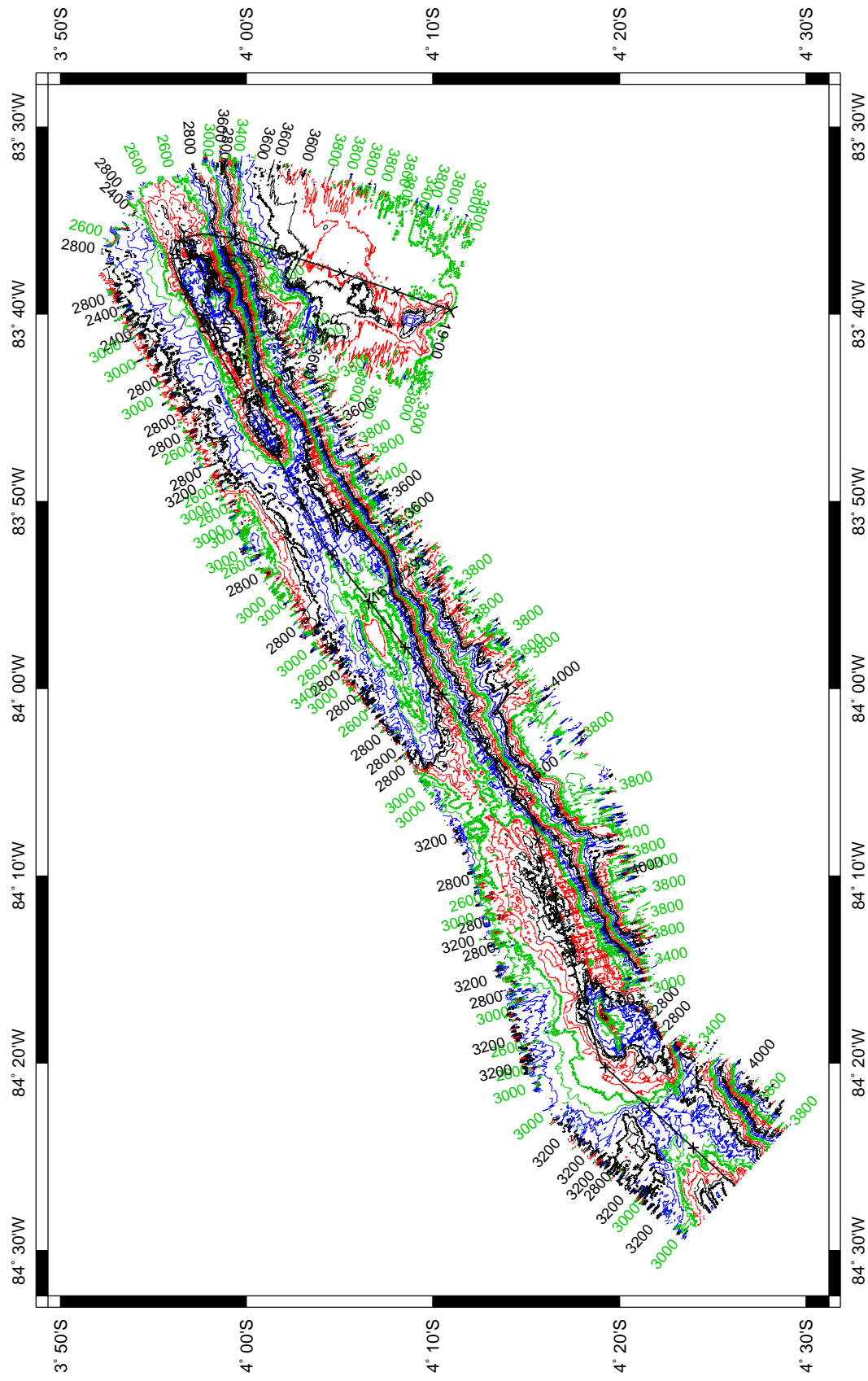


This figure is a bathymetric map of the southern tip of South America, specifically the Drake Passage and the Antarctic Peninsula. The map displays depth contours in meters, color-coded in green, red, and blue. The contours show the deepening of the water as one moves from the continental shelf towards the abyssal plain. The map is framed by latitude and longitude coordinates, ranging from 4° 30' S to 5° 00' S and 84° 30' W to 85° 30' W. A scale bar at the bottom indicates distances up to 1000 km.



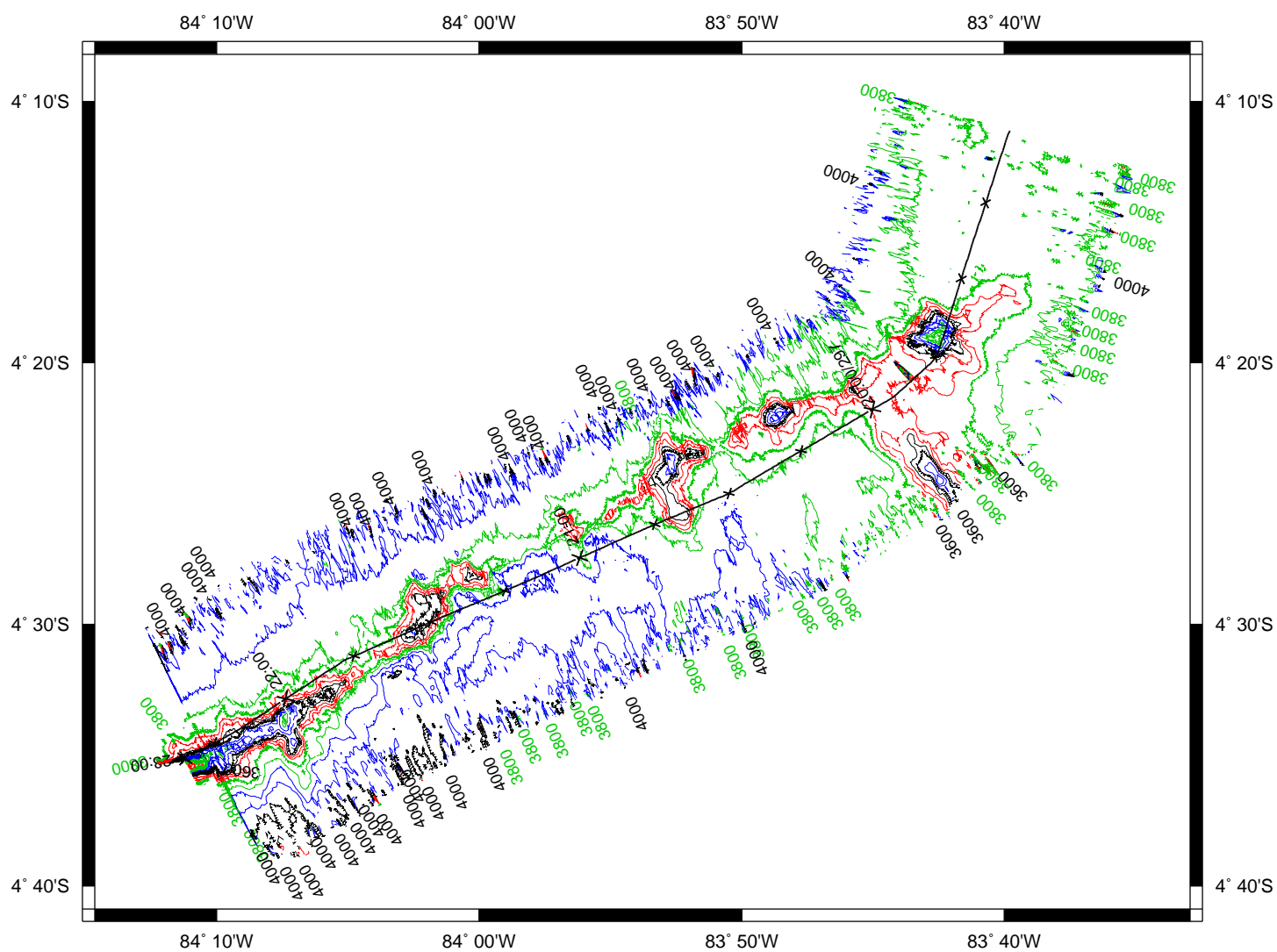


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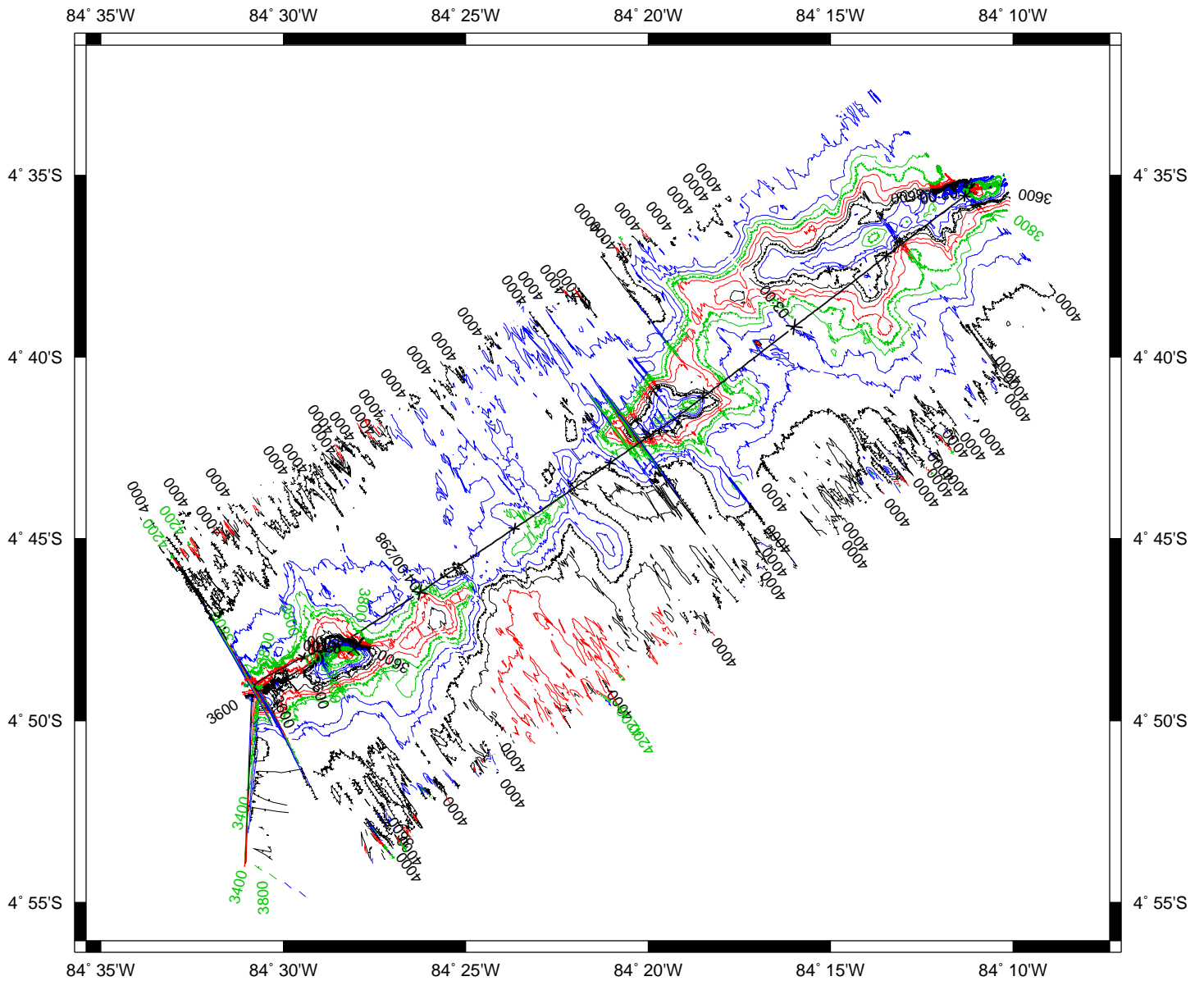




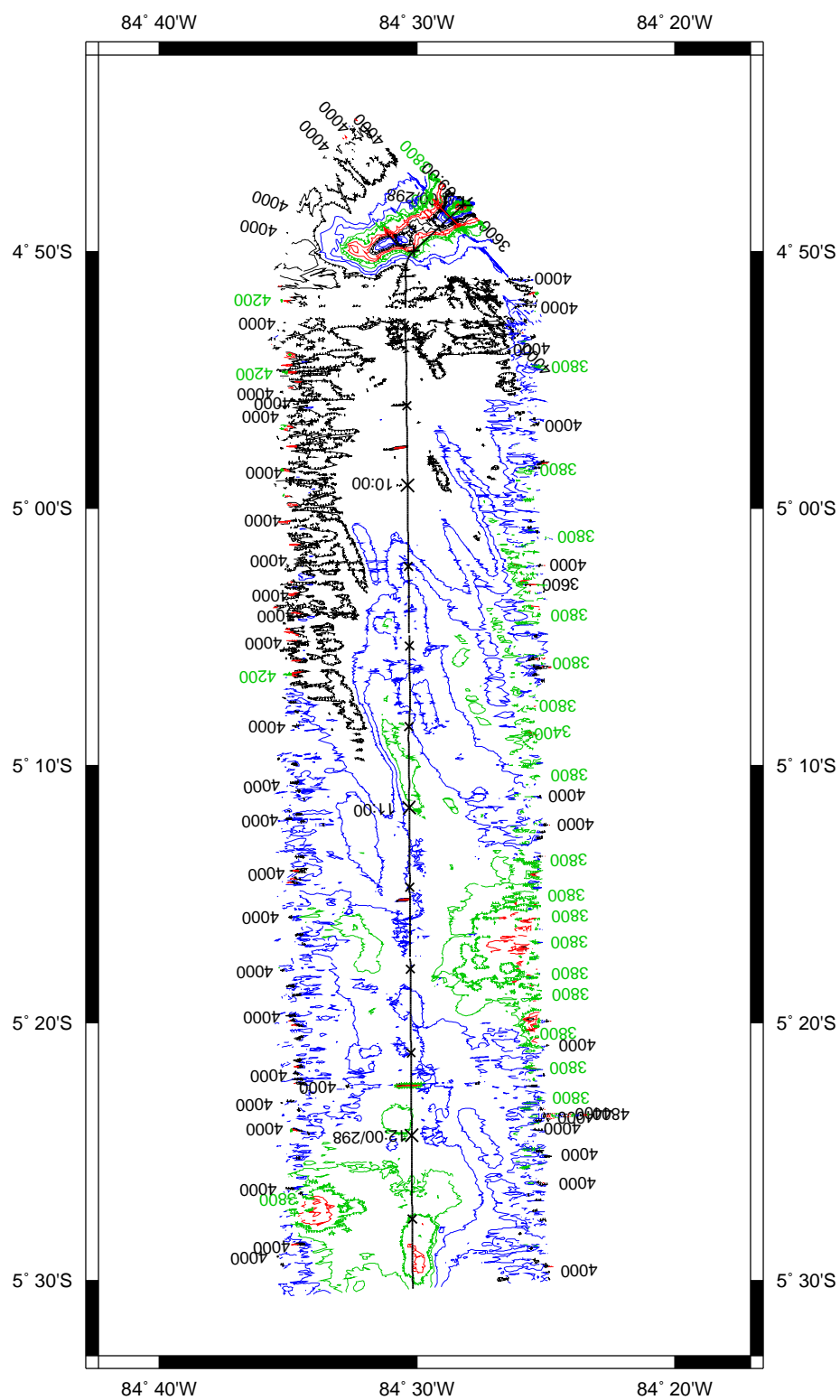
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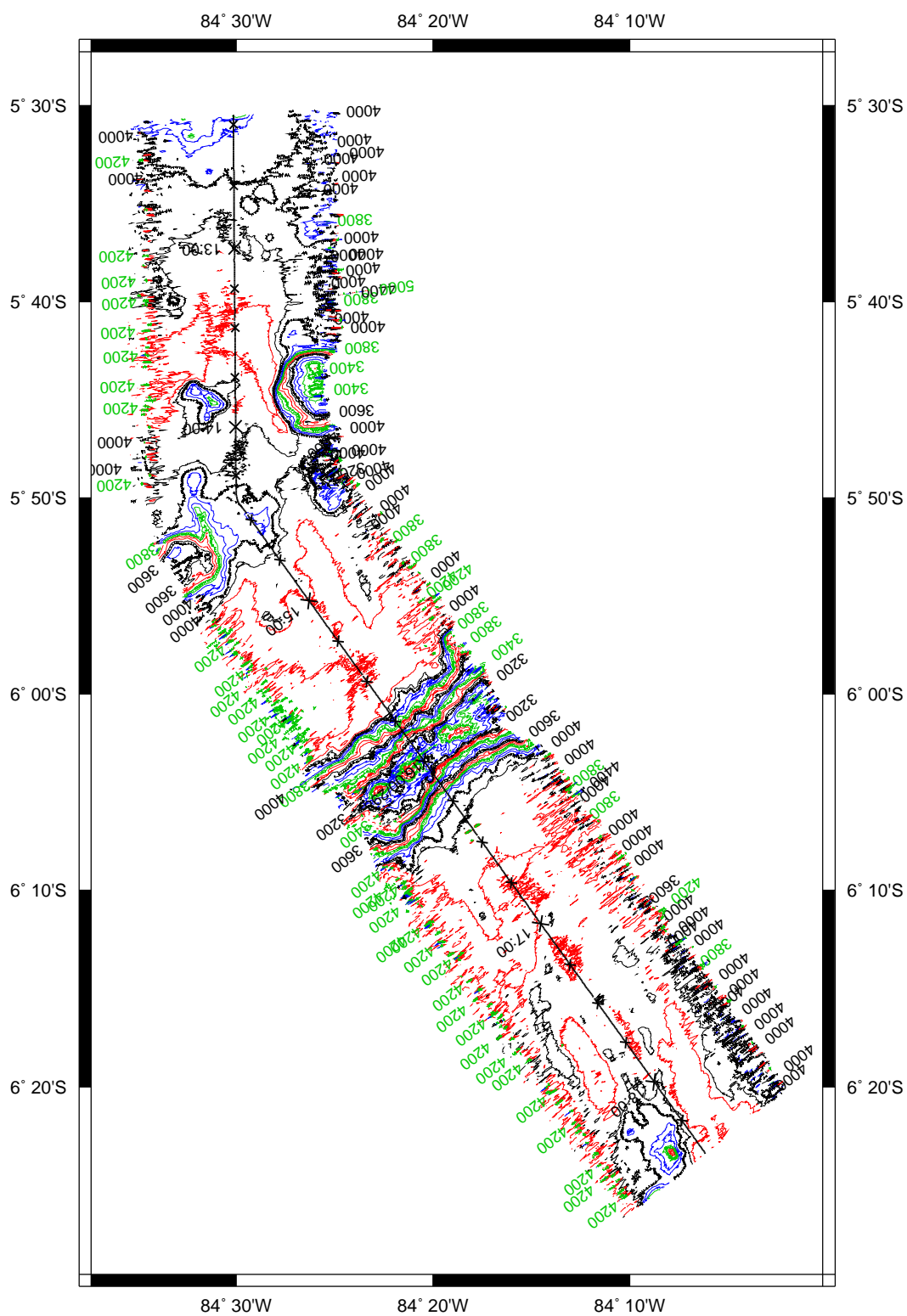
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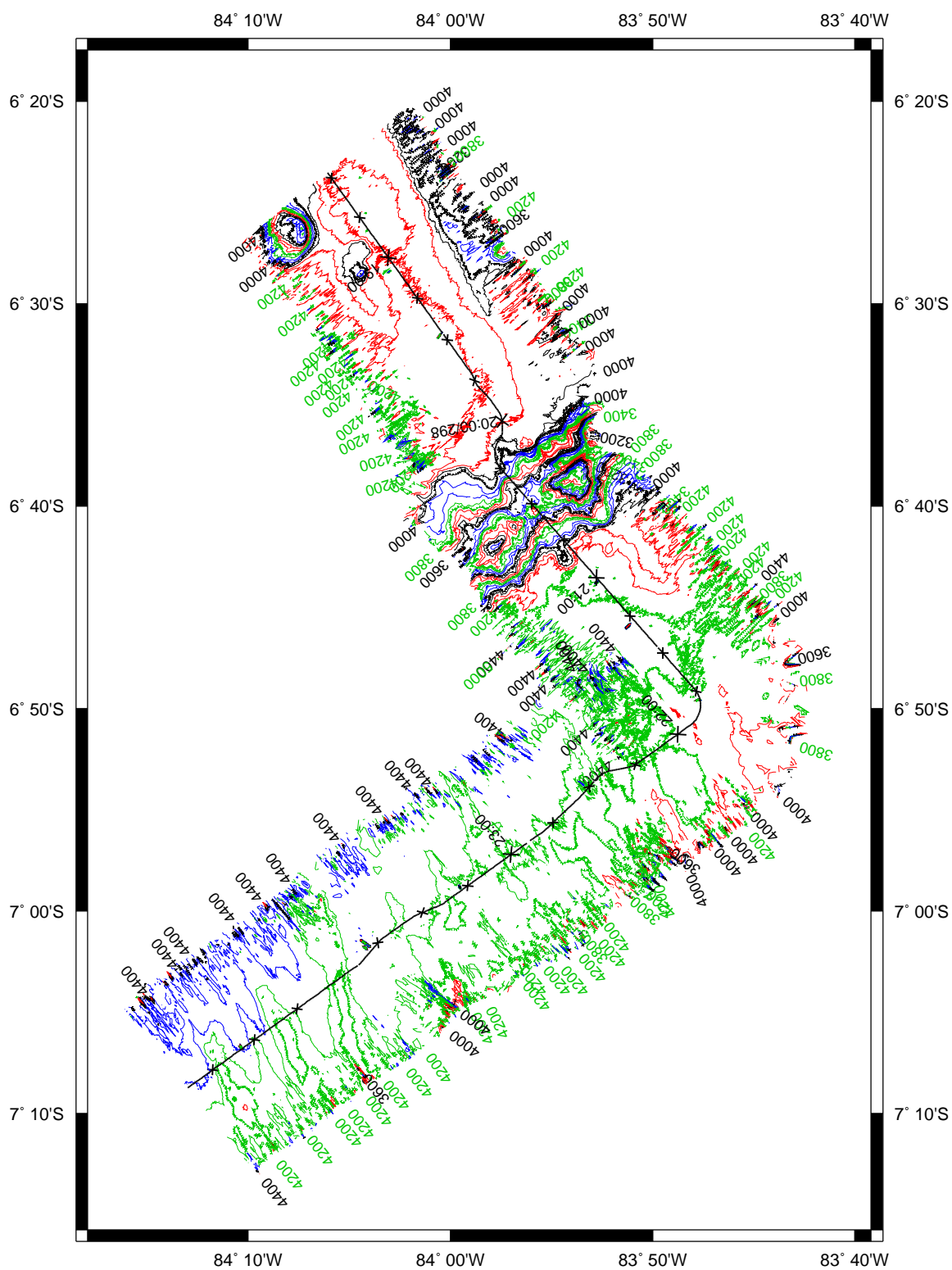
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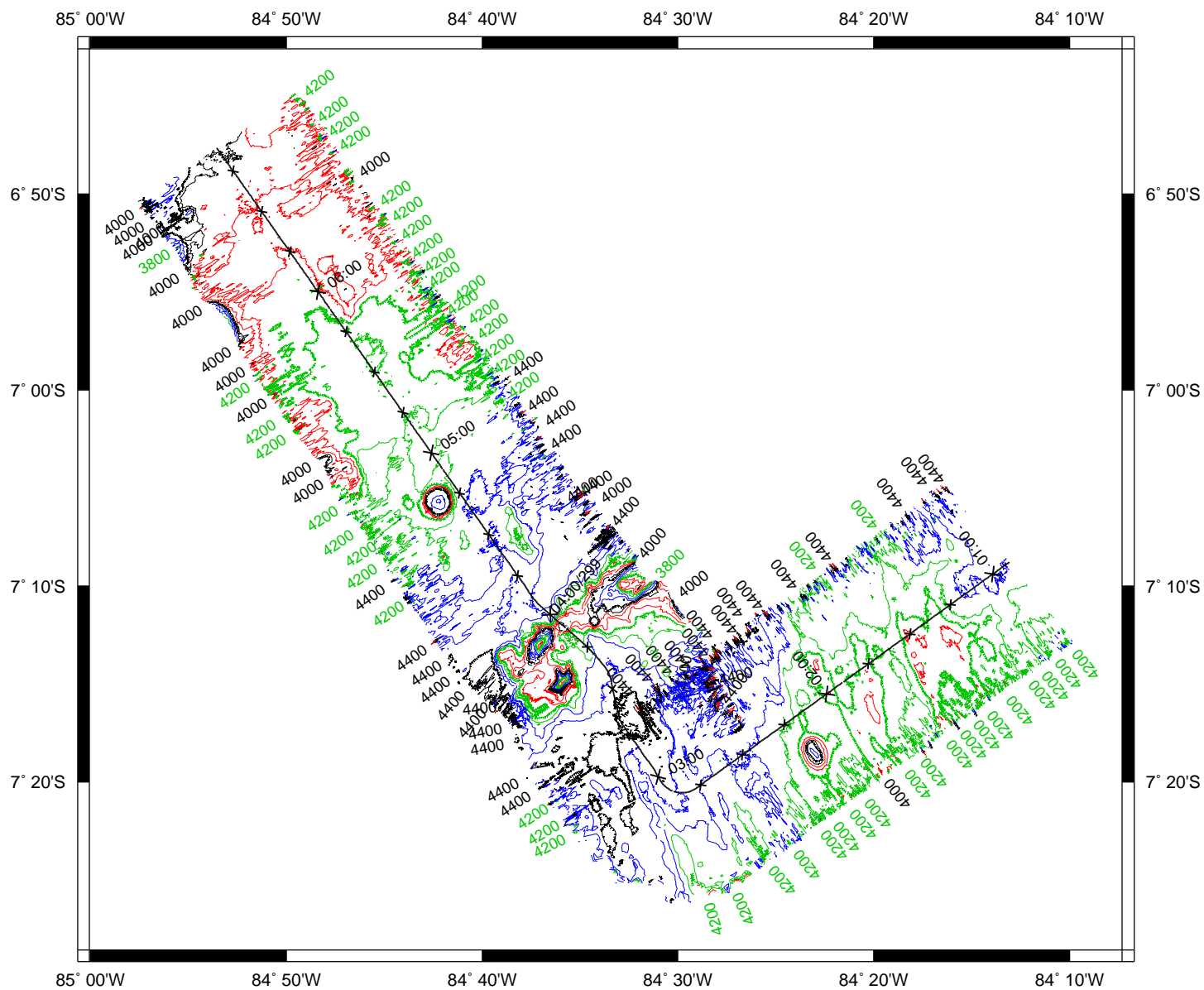
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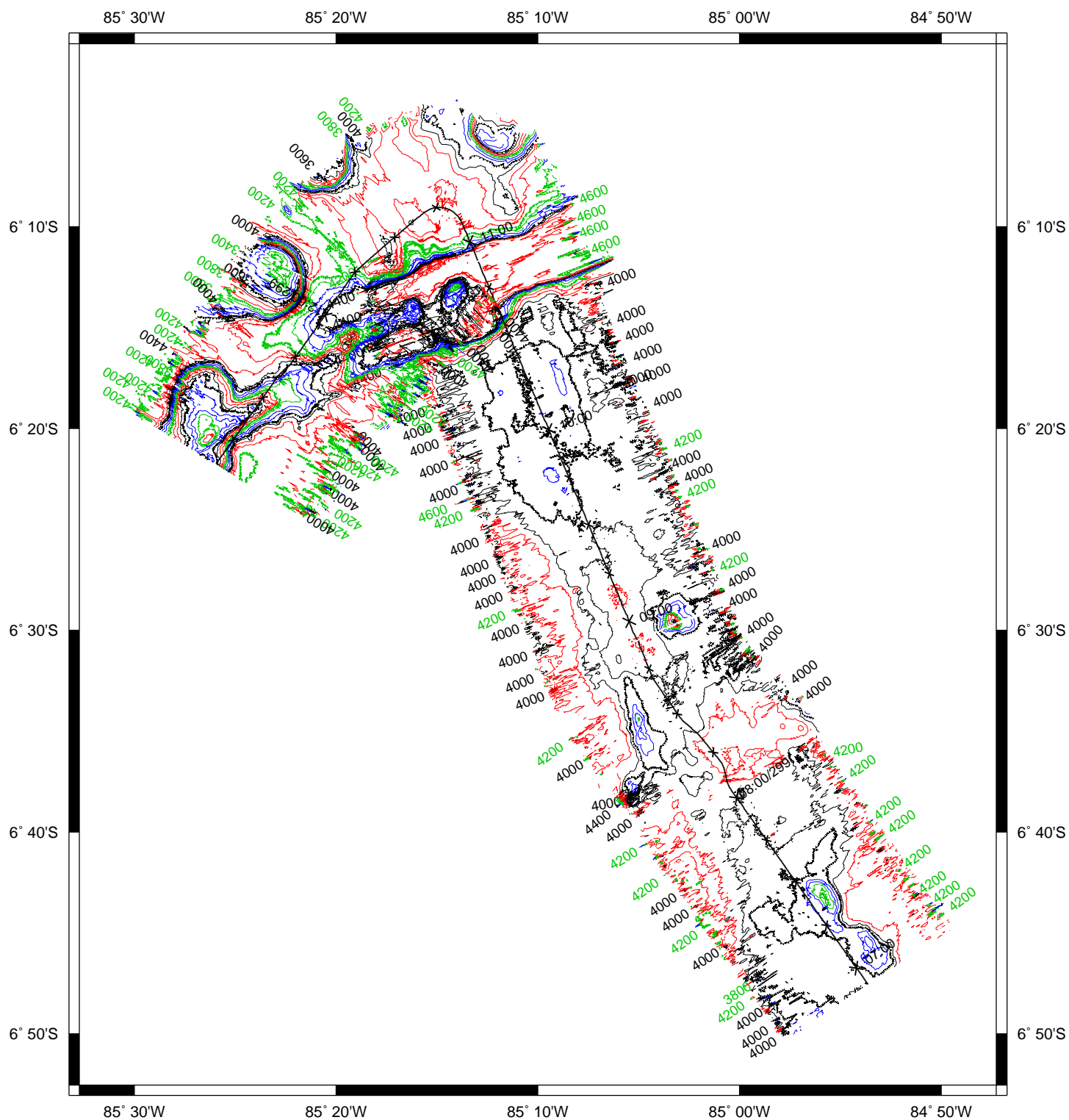
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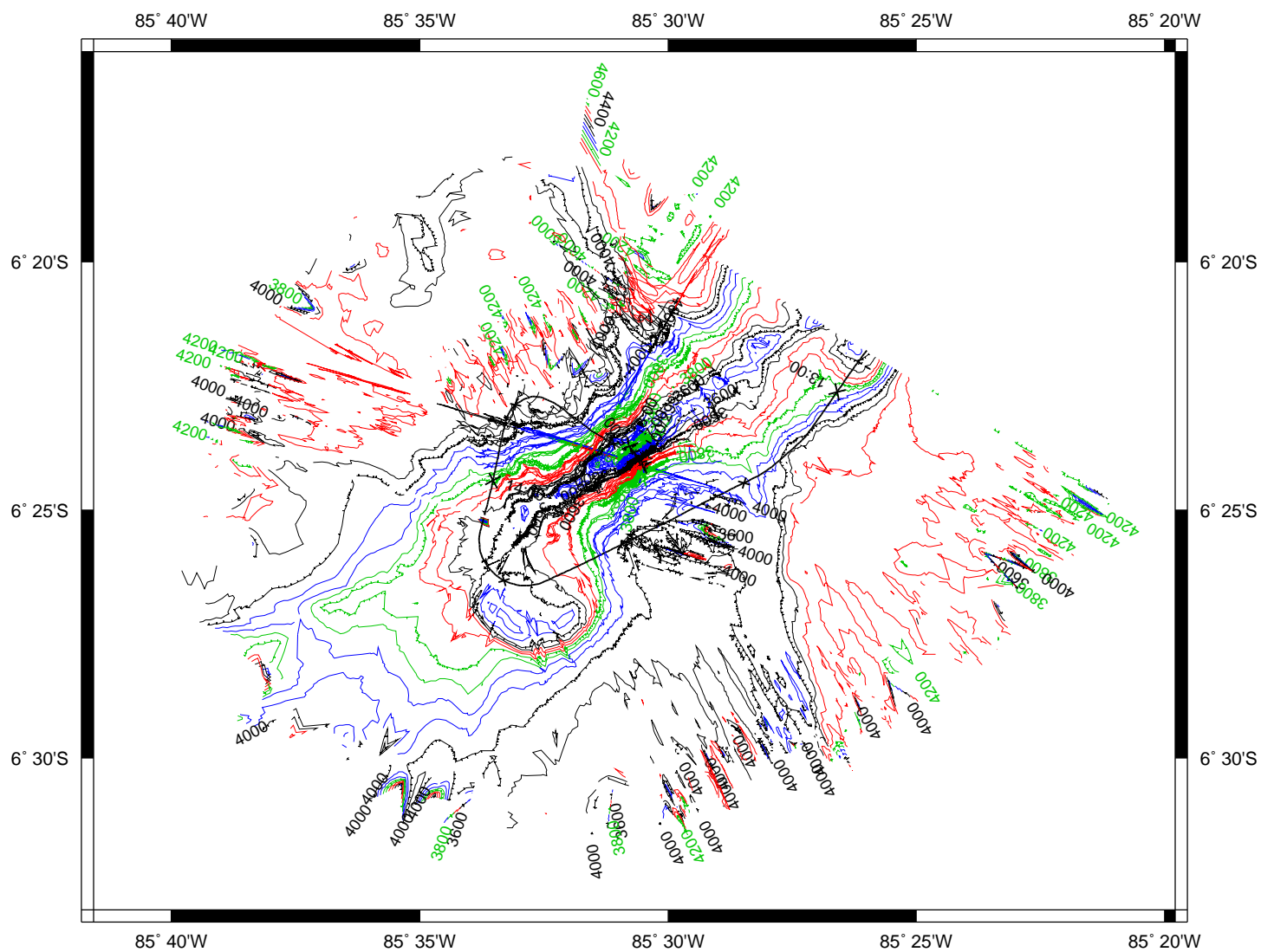


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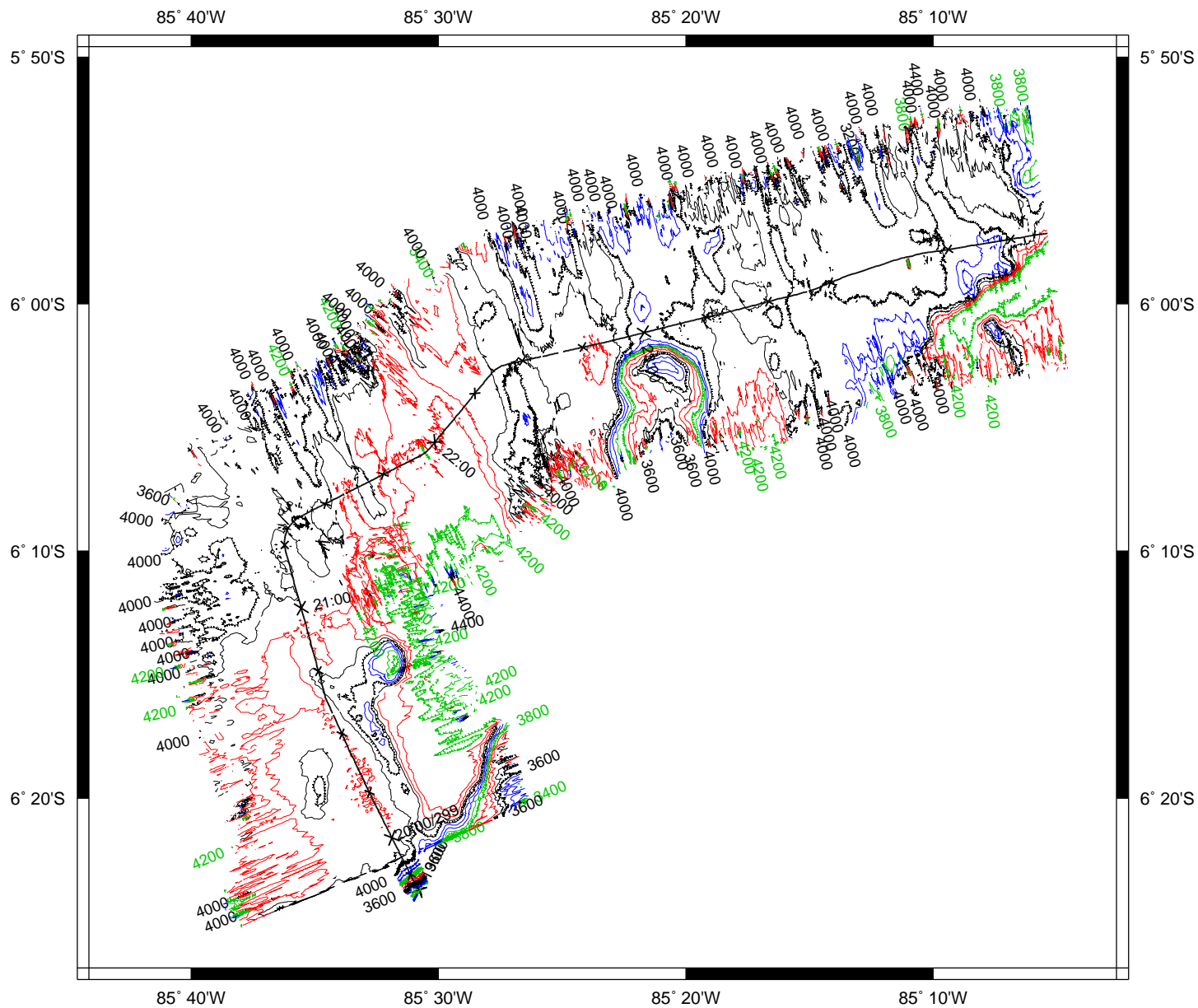


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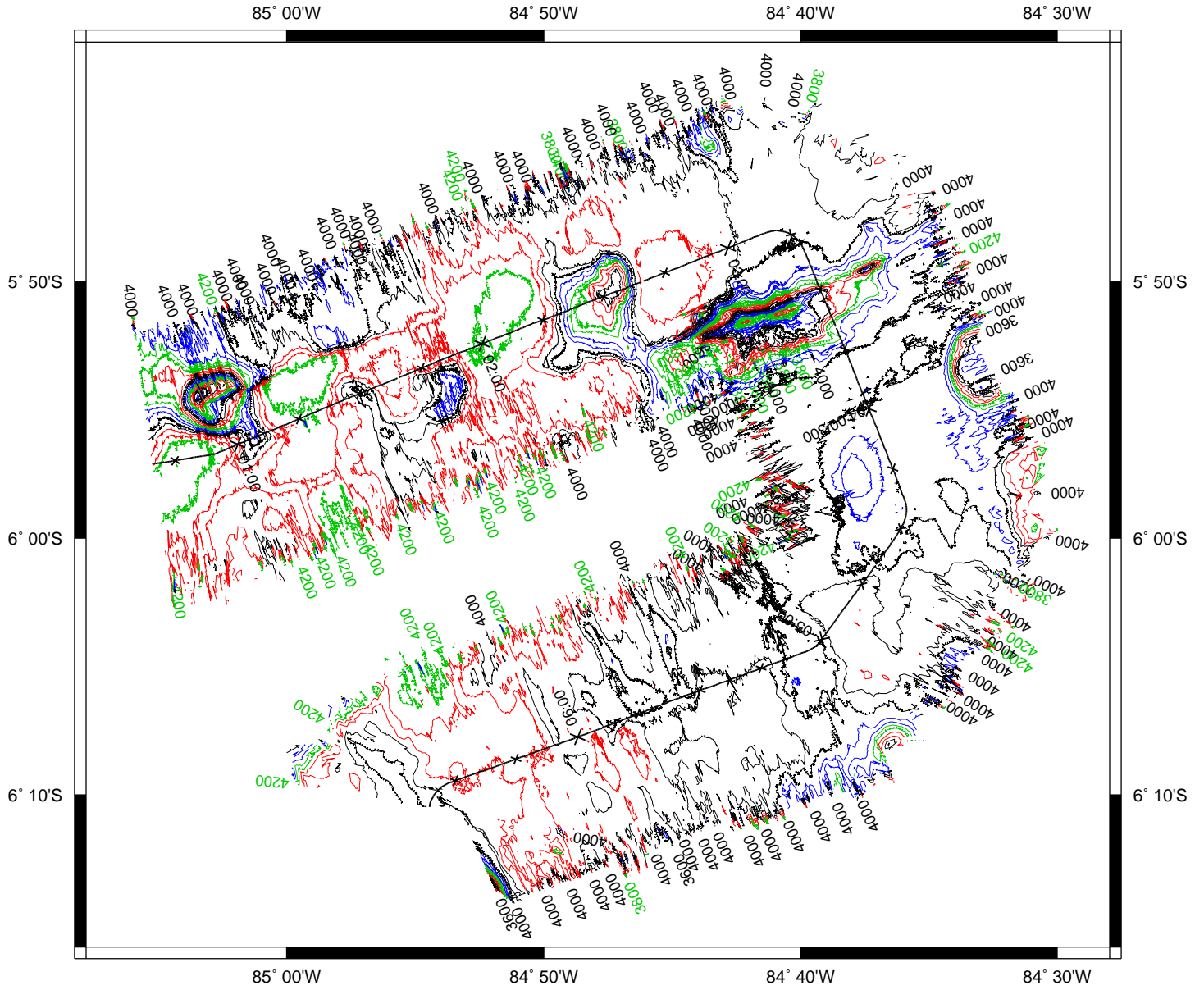




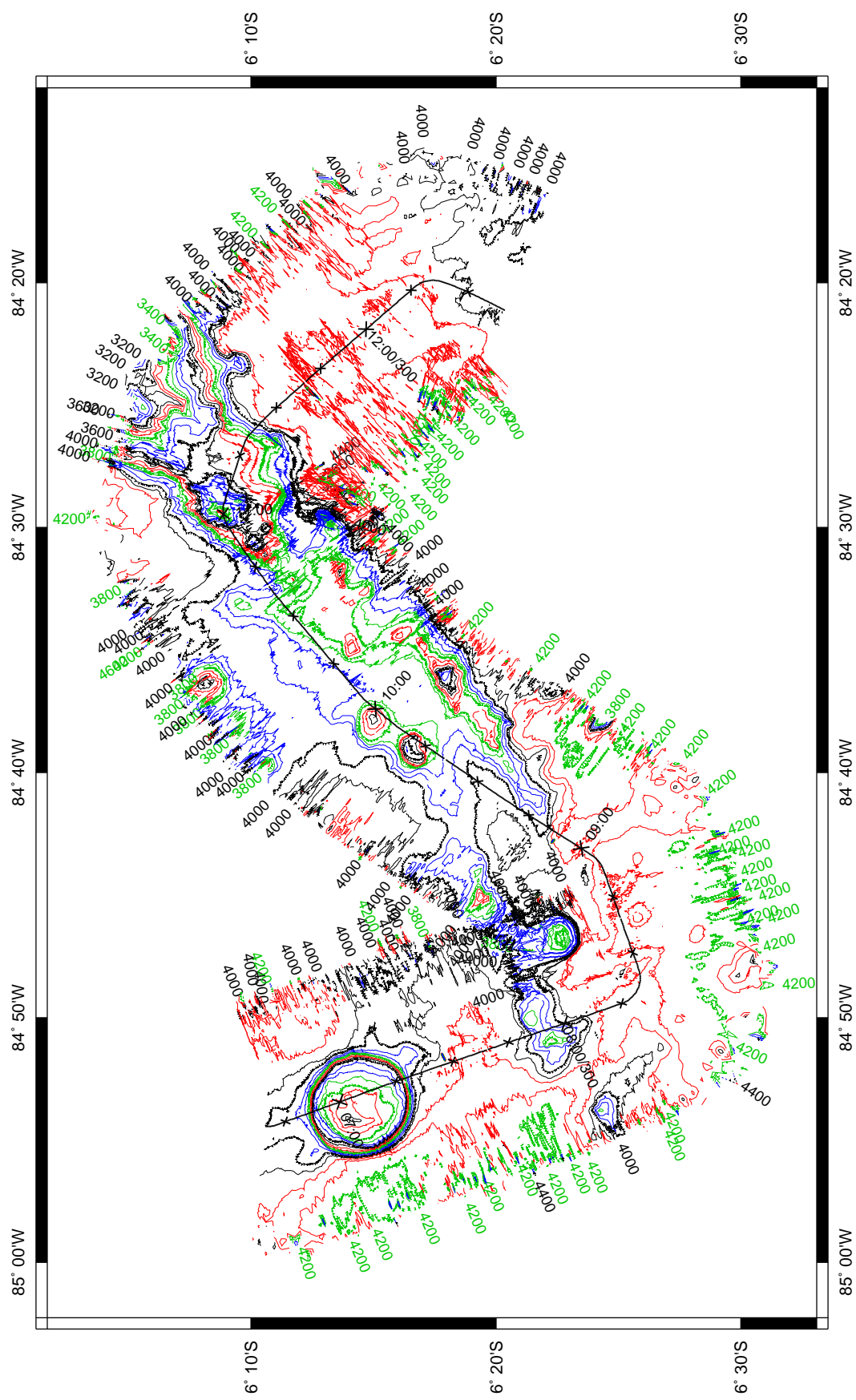
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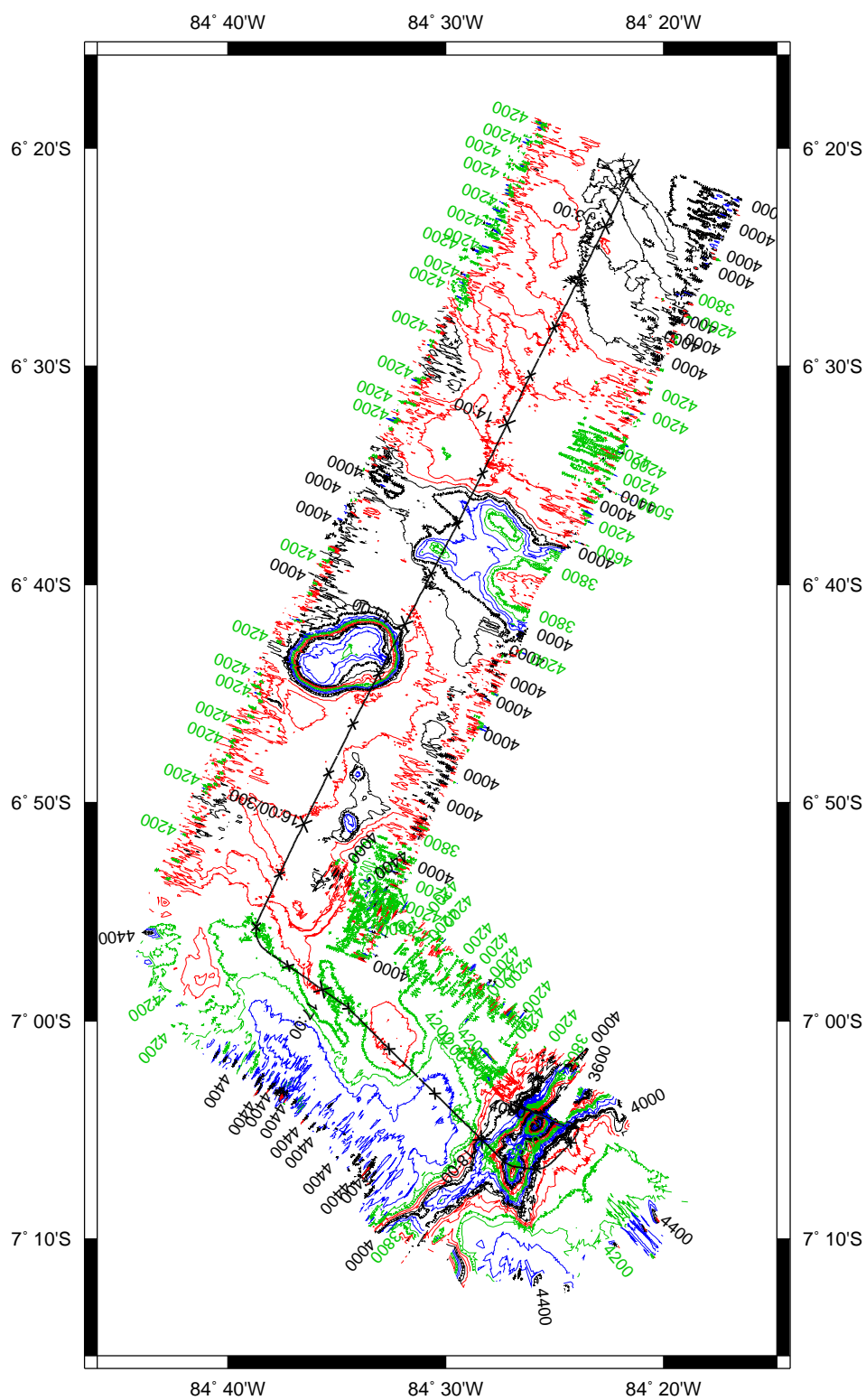
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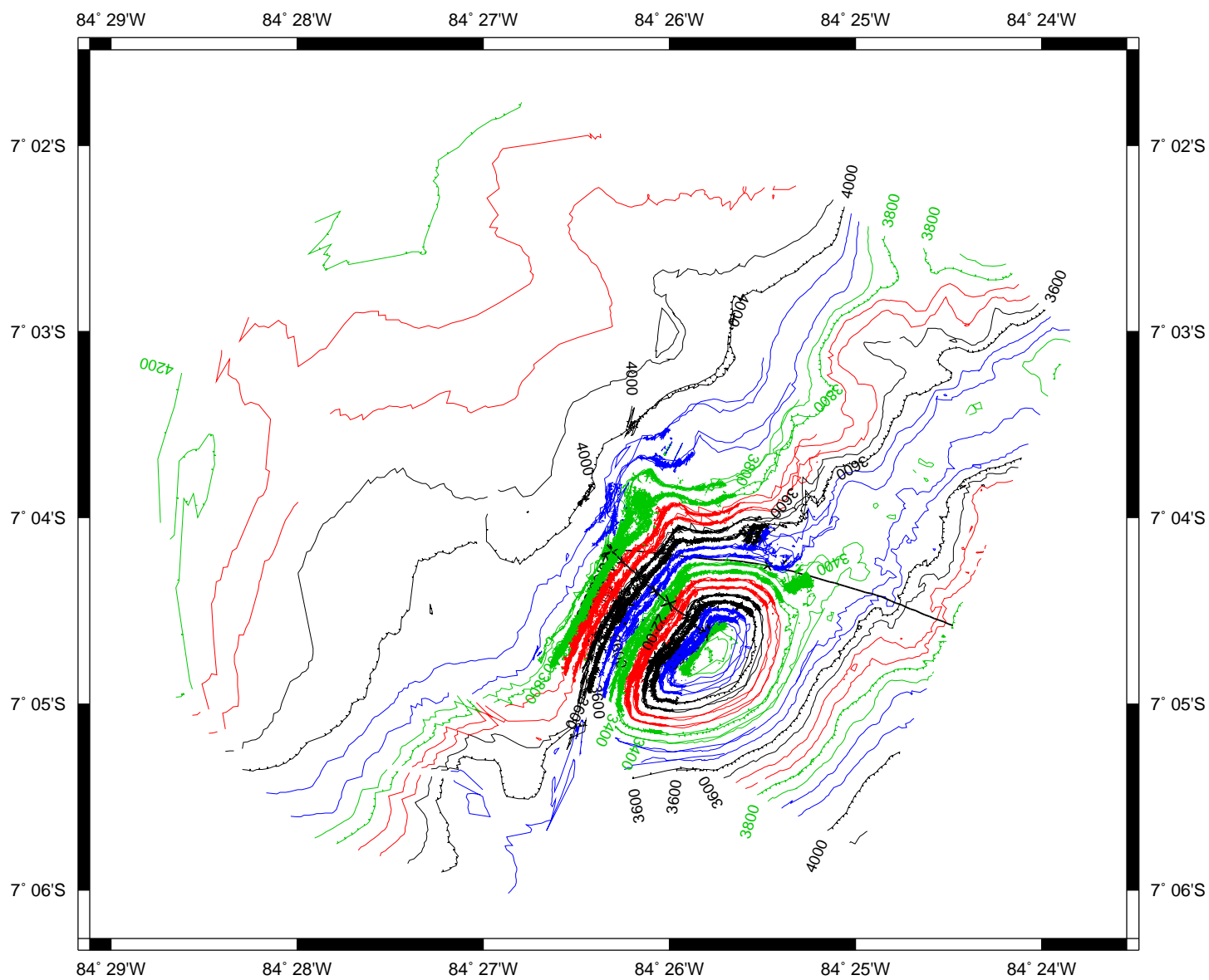
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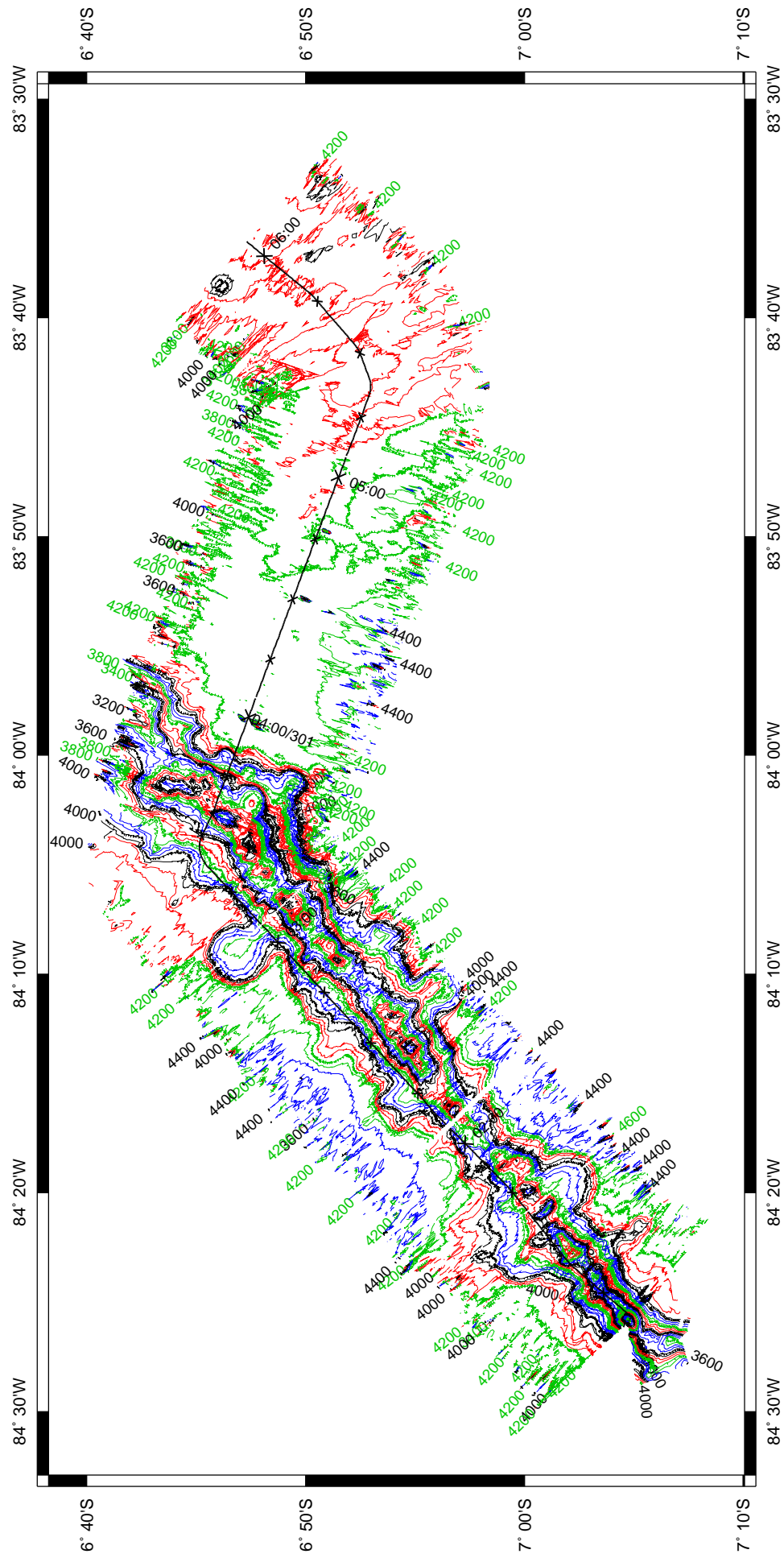
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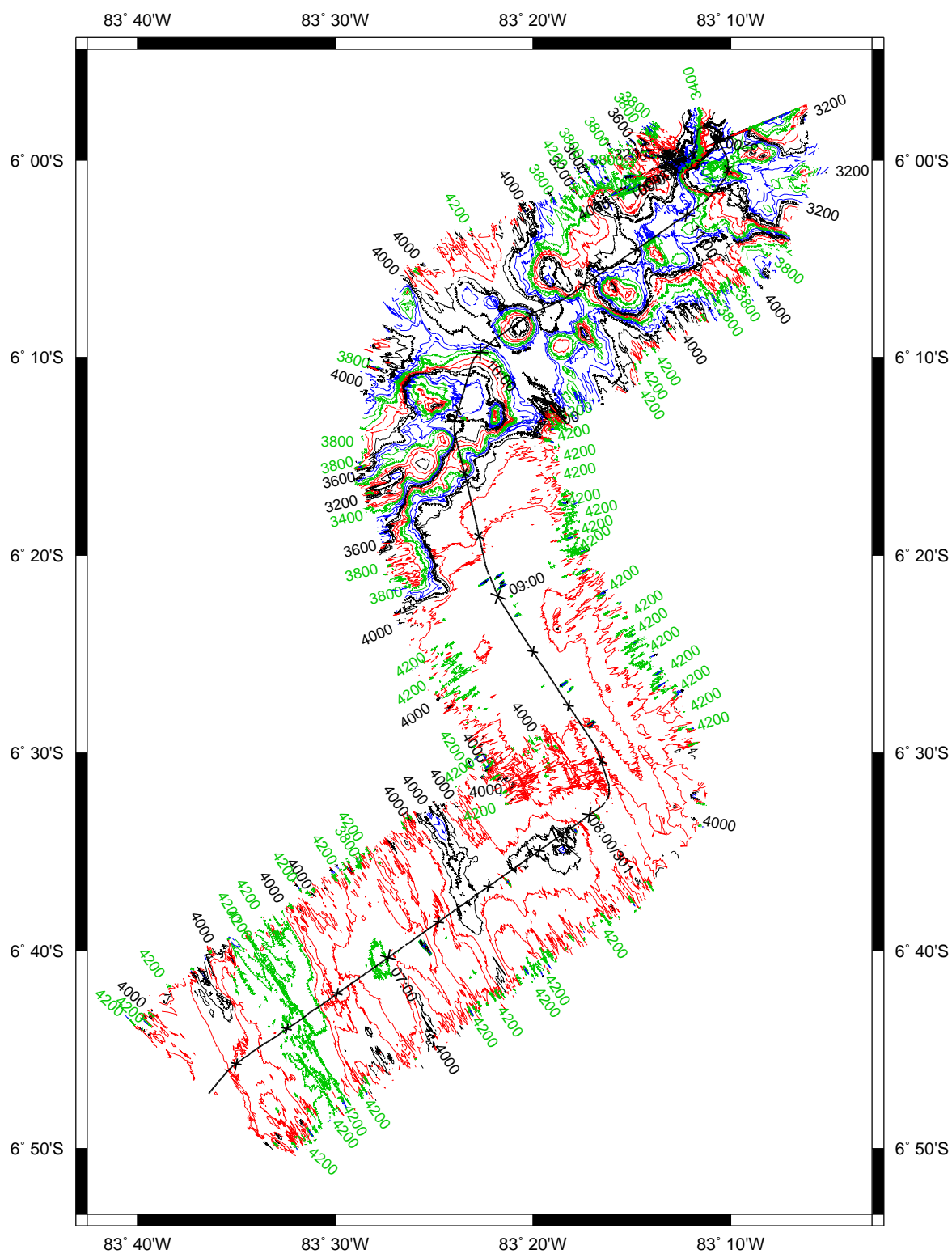


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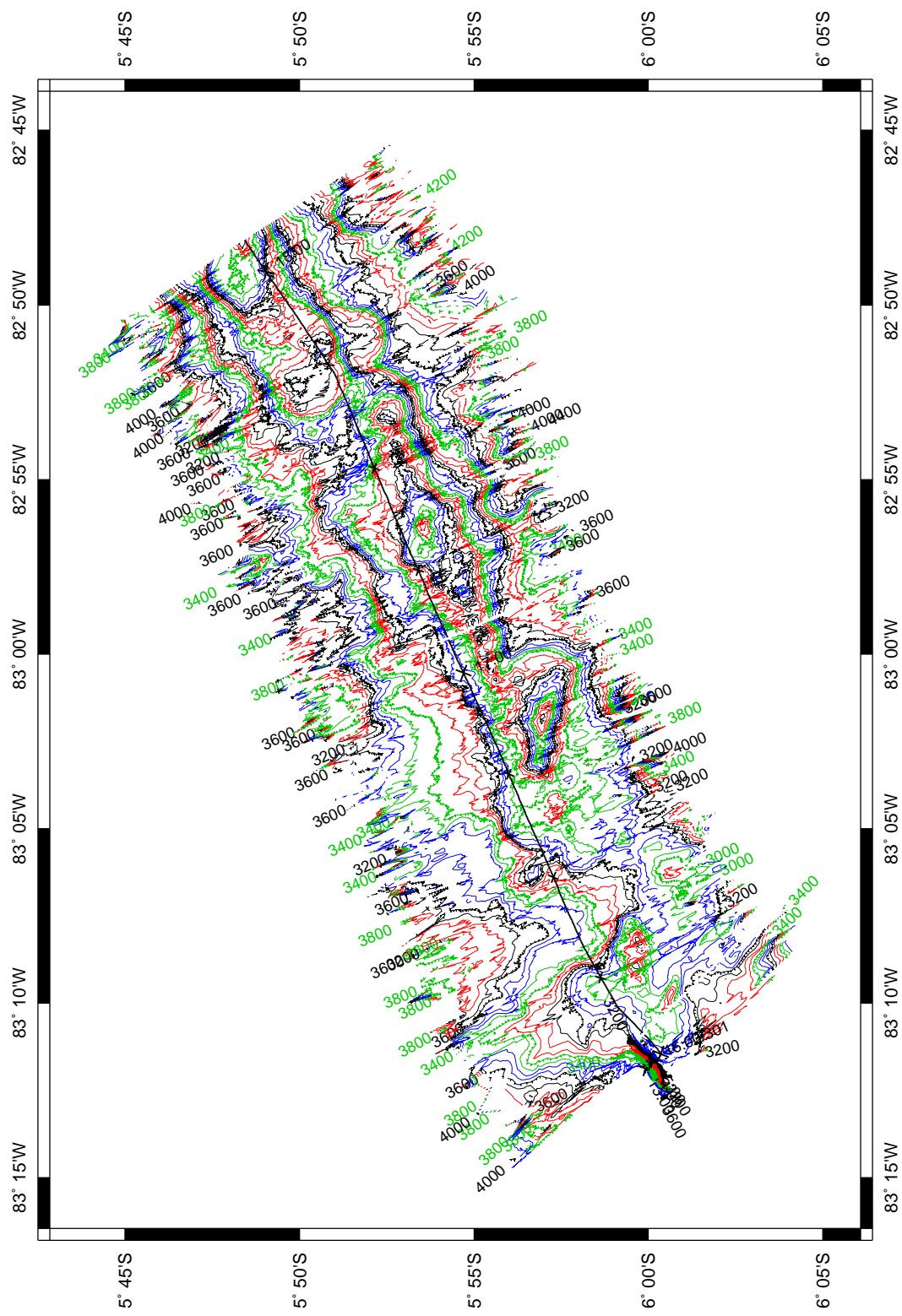




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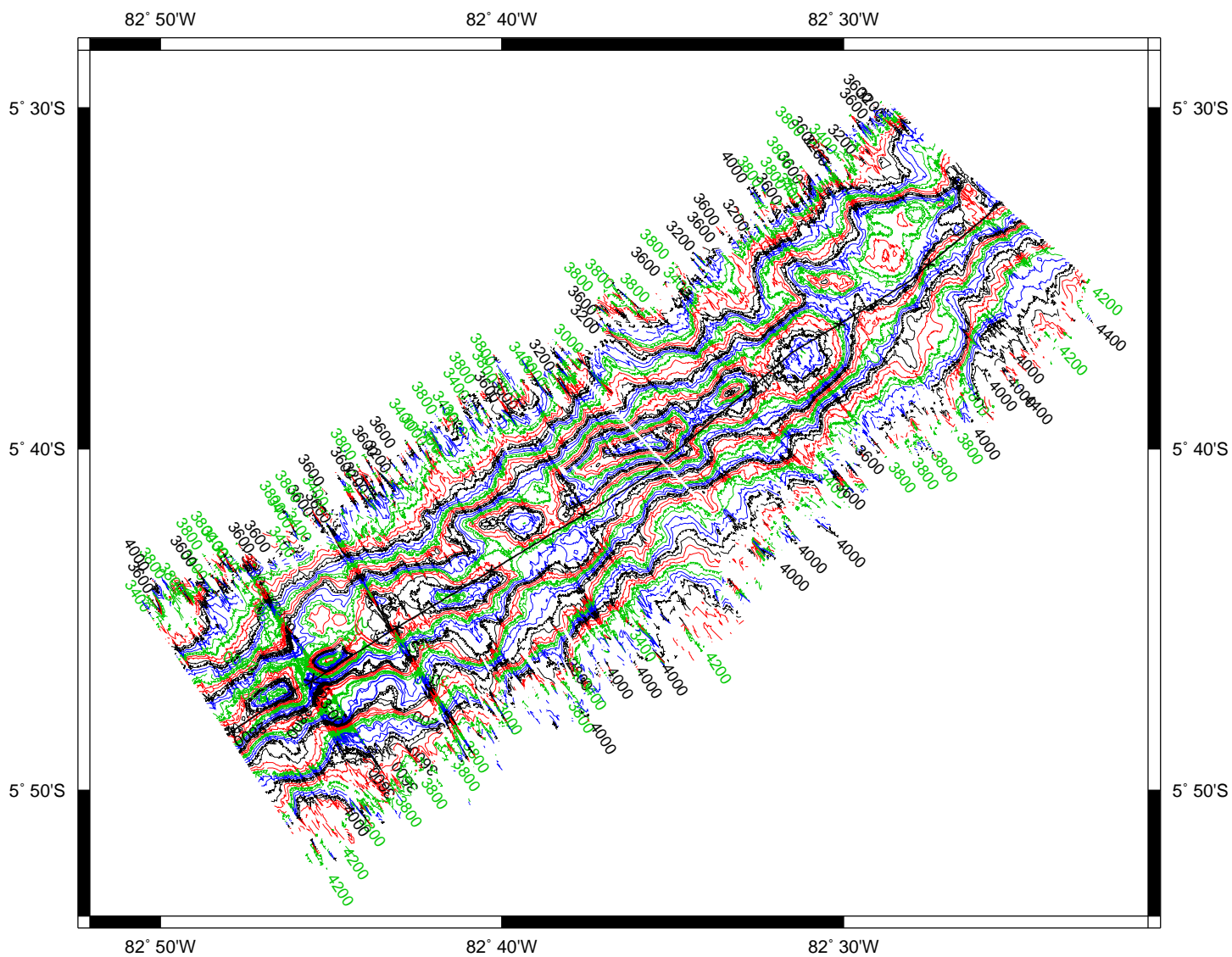


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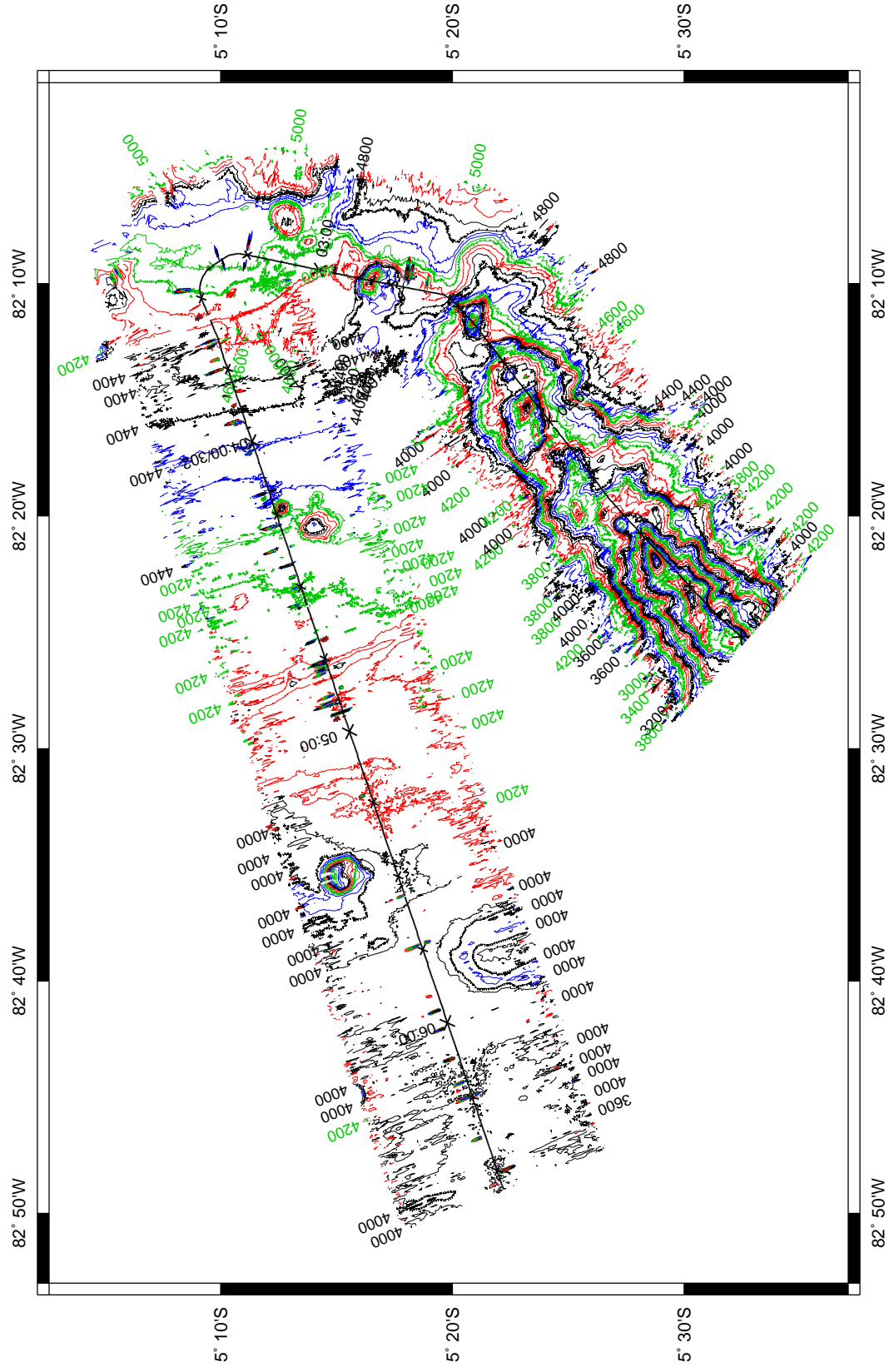




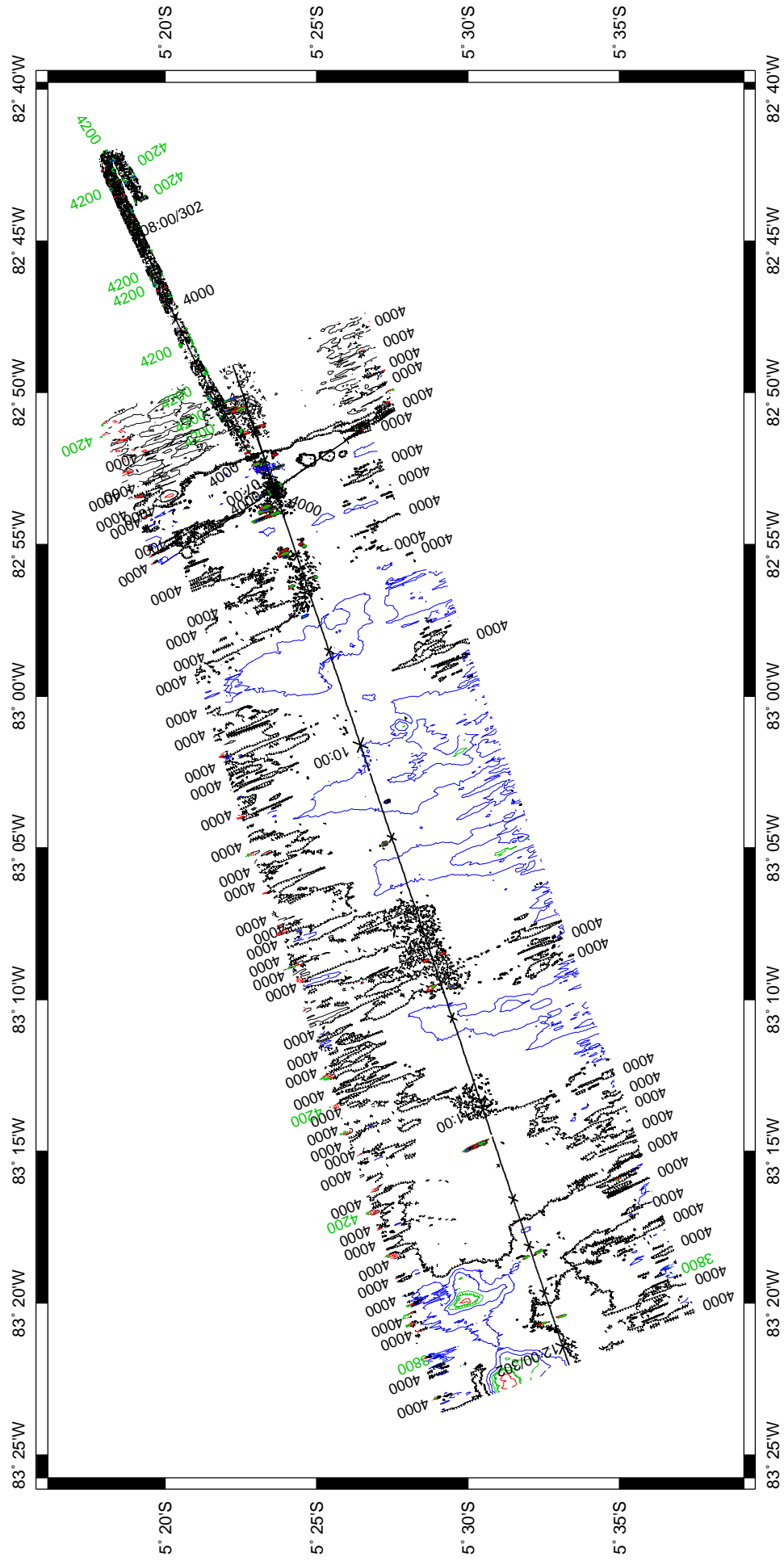
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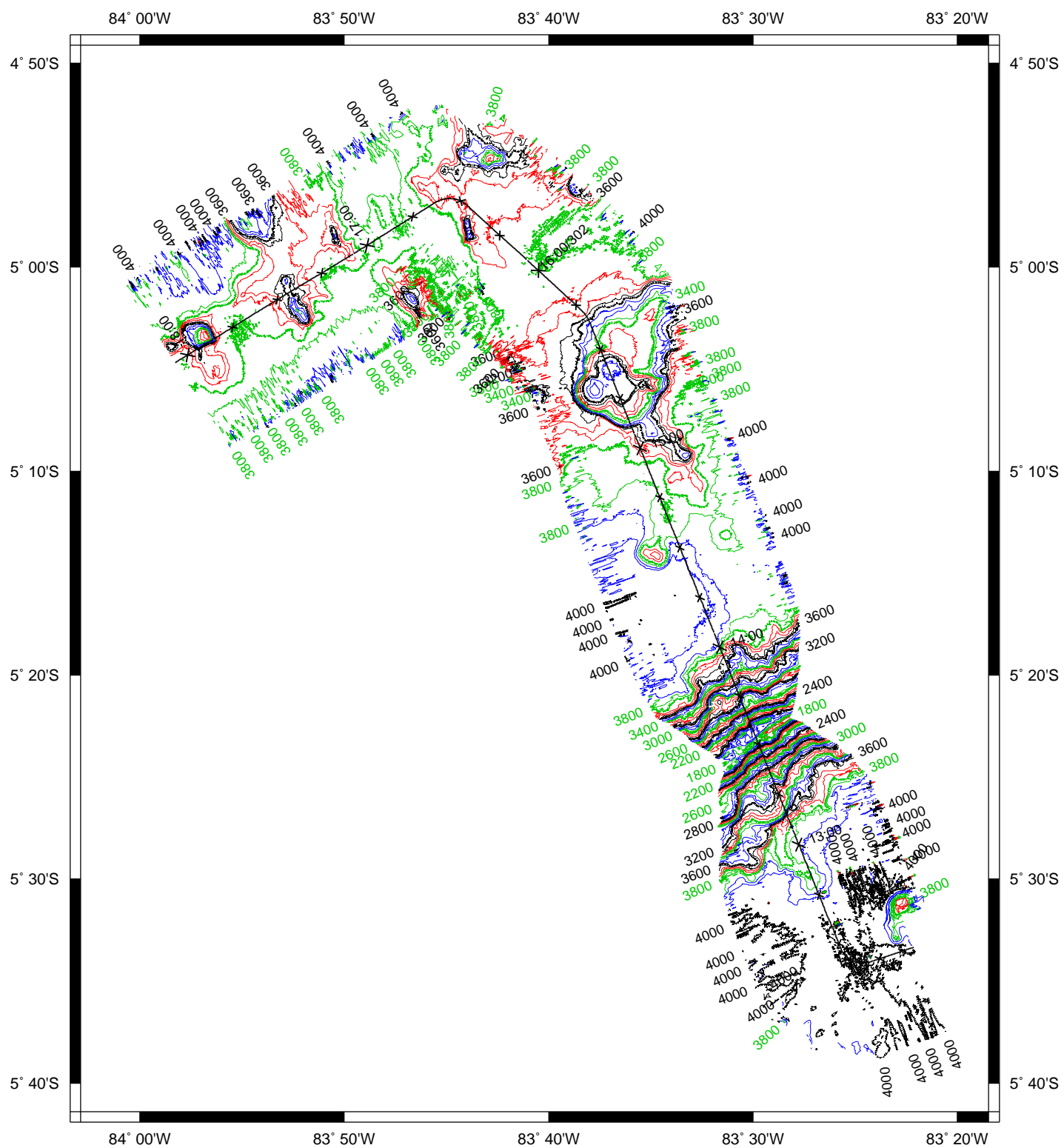
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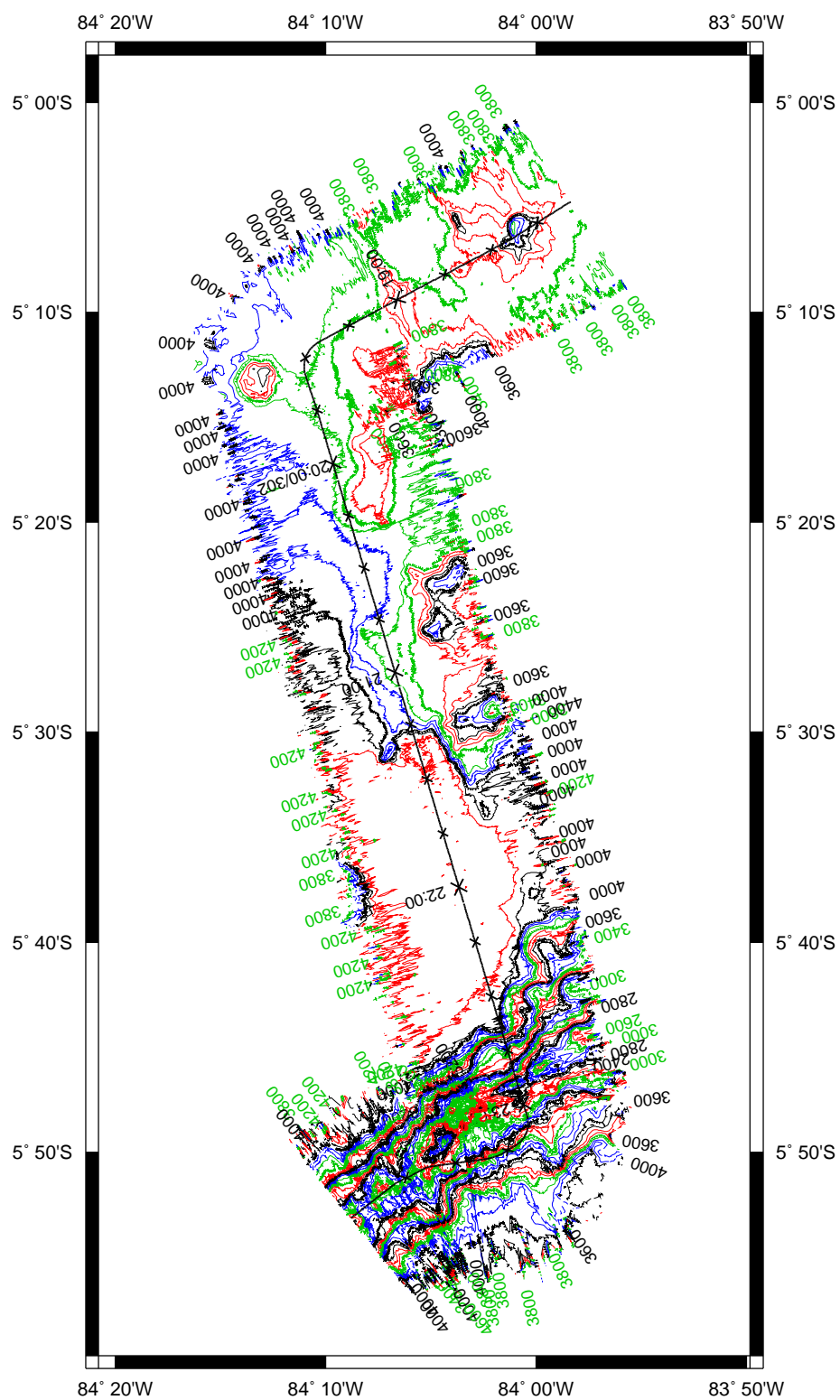
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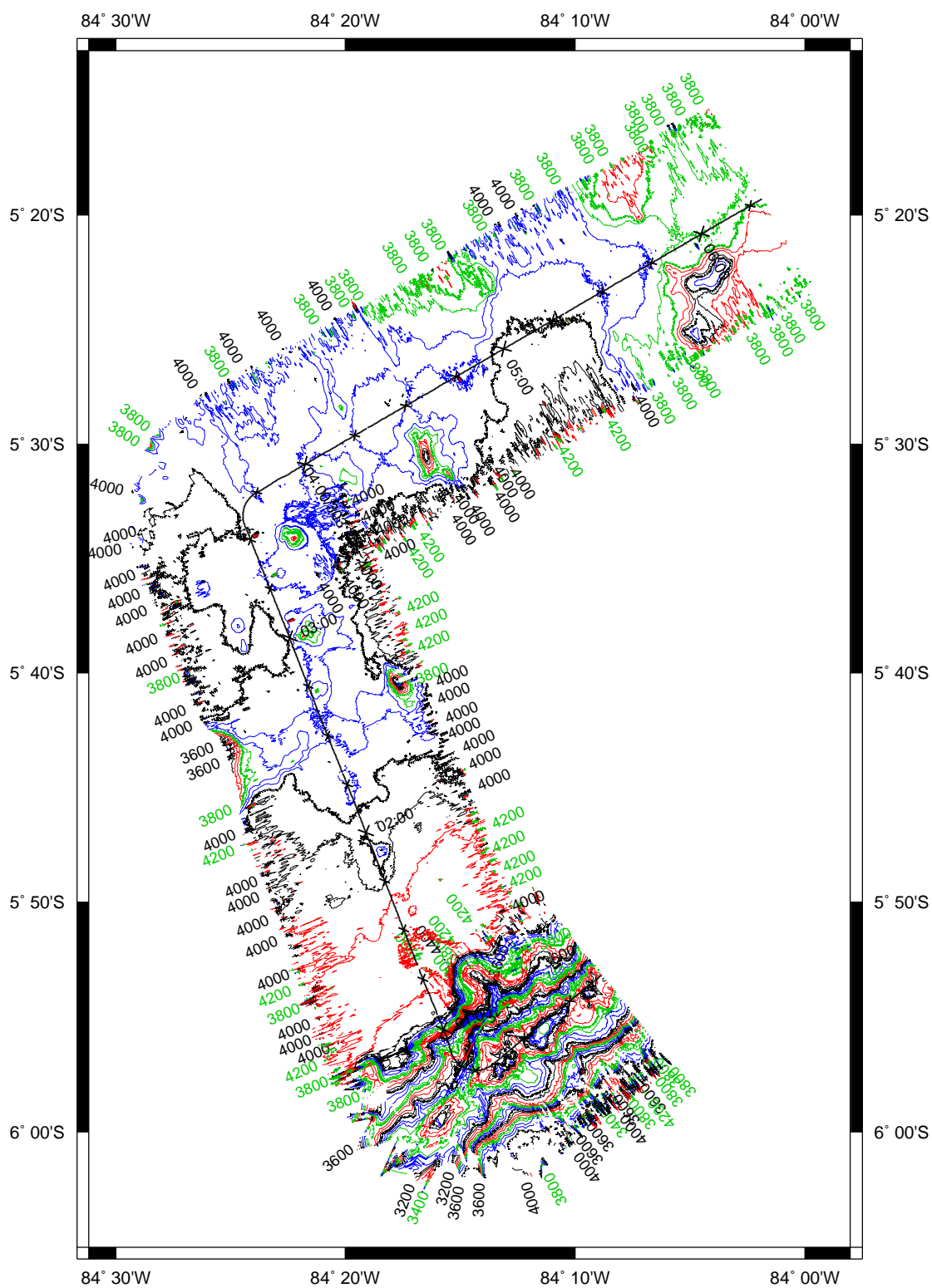
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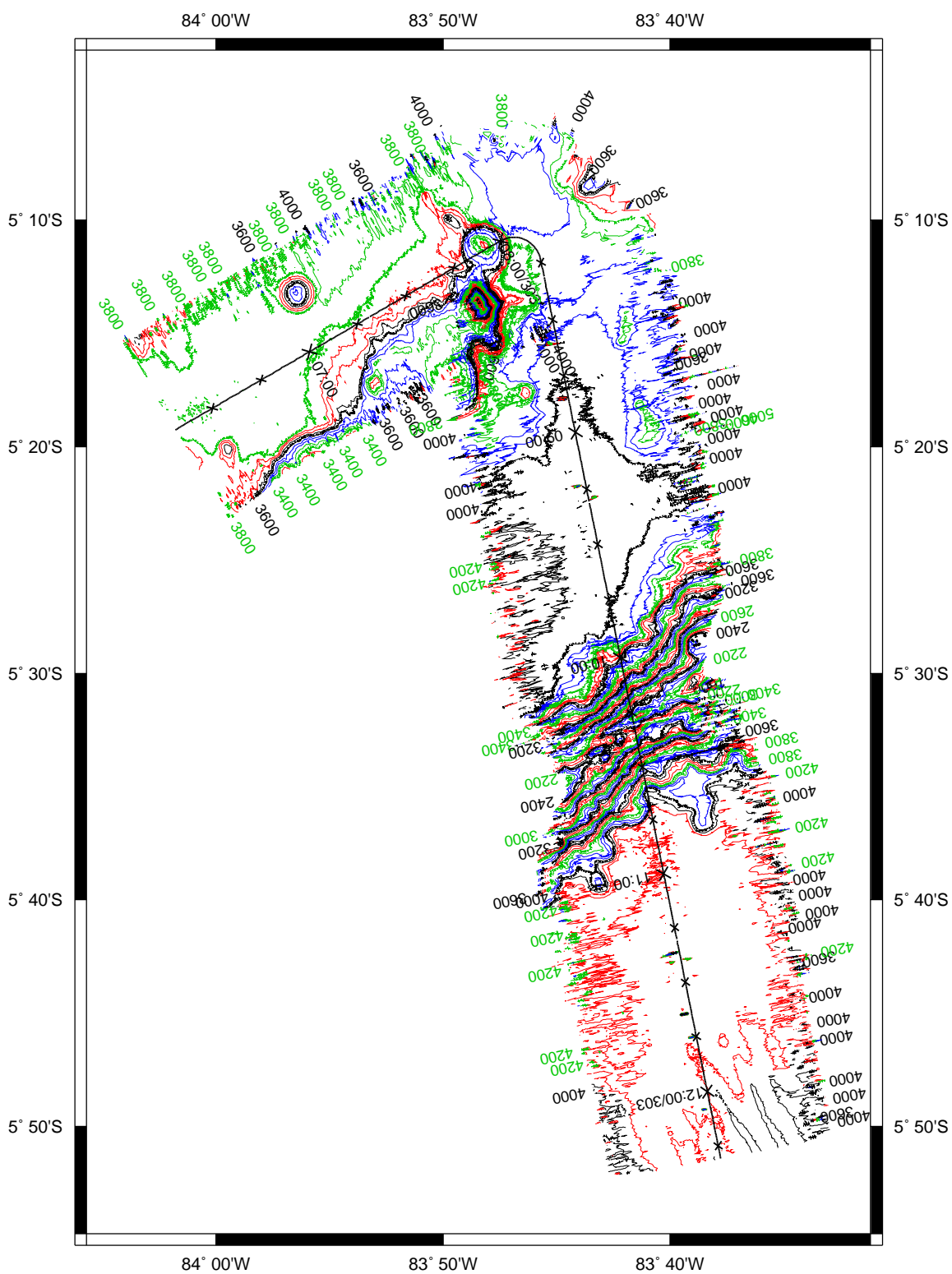


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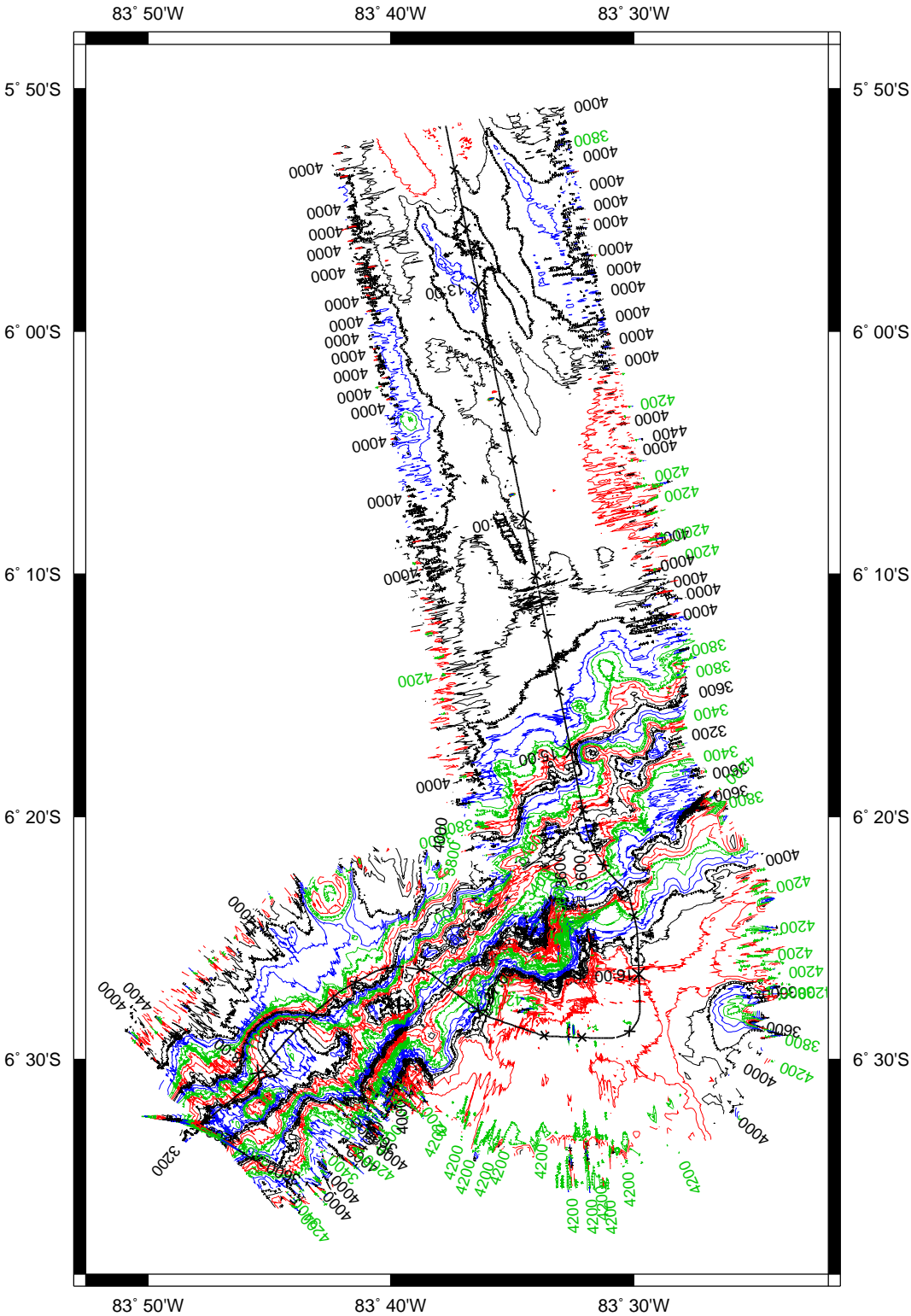




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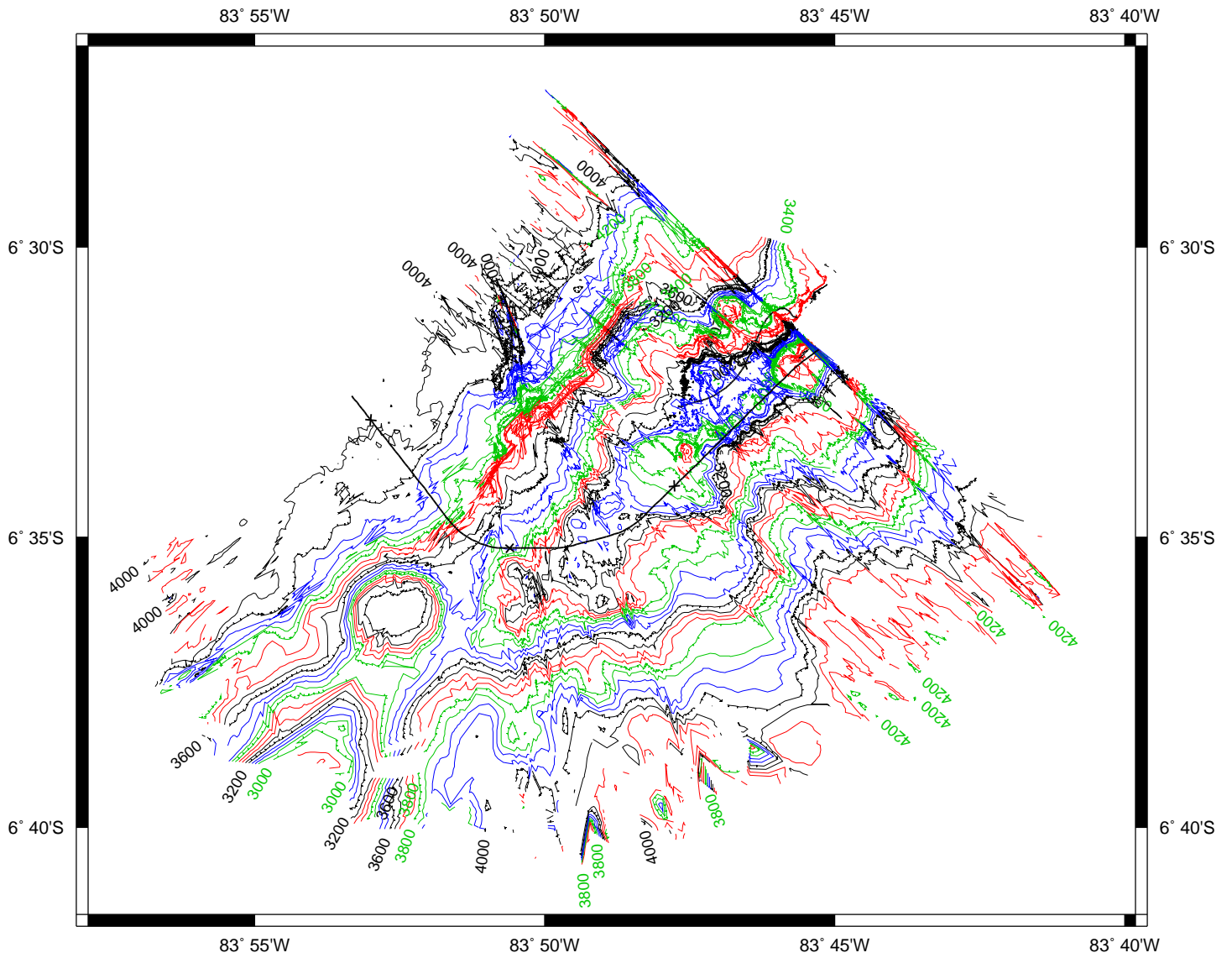


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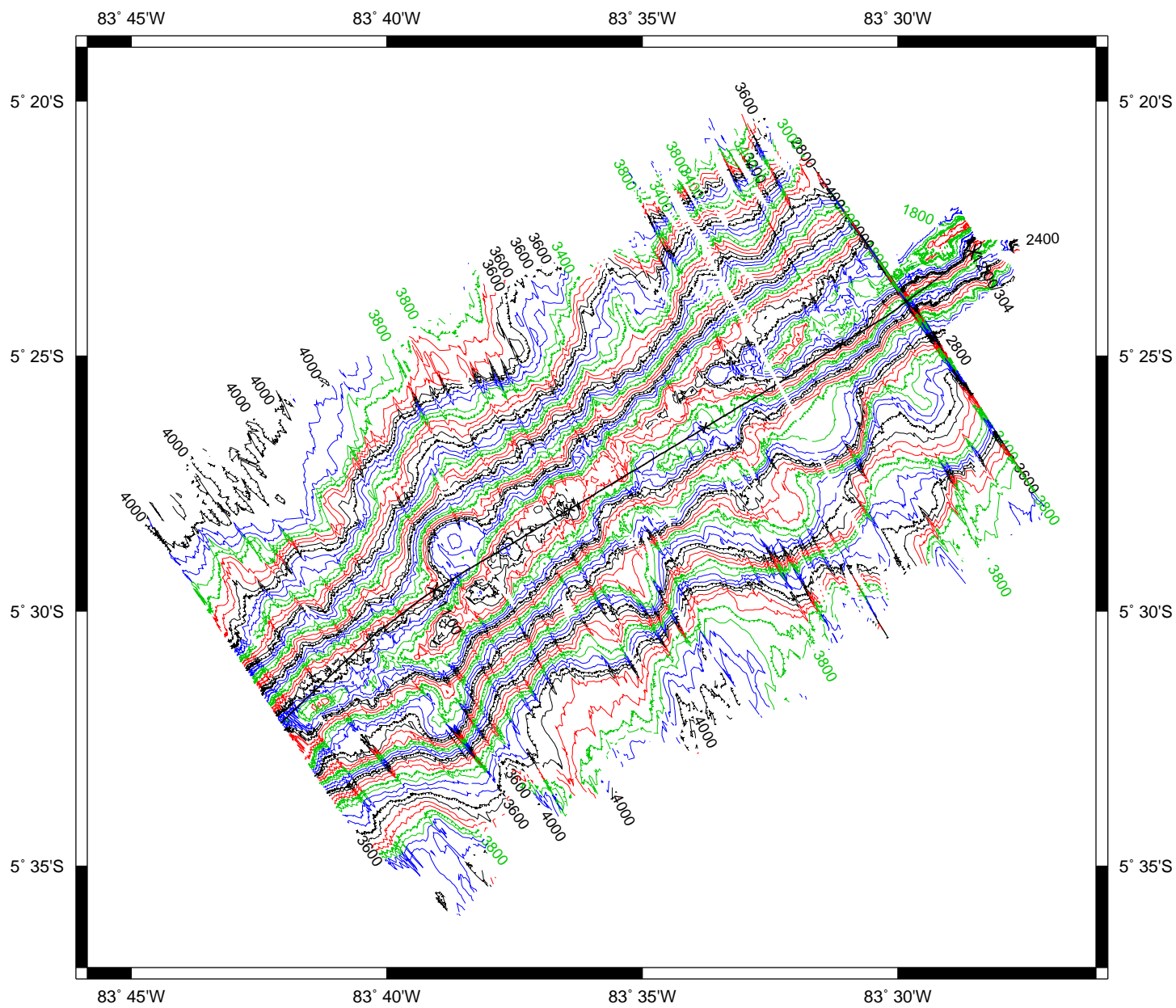


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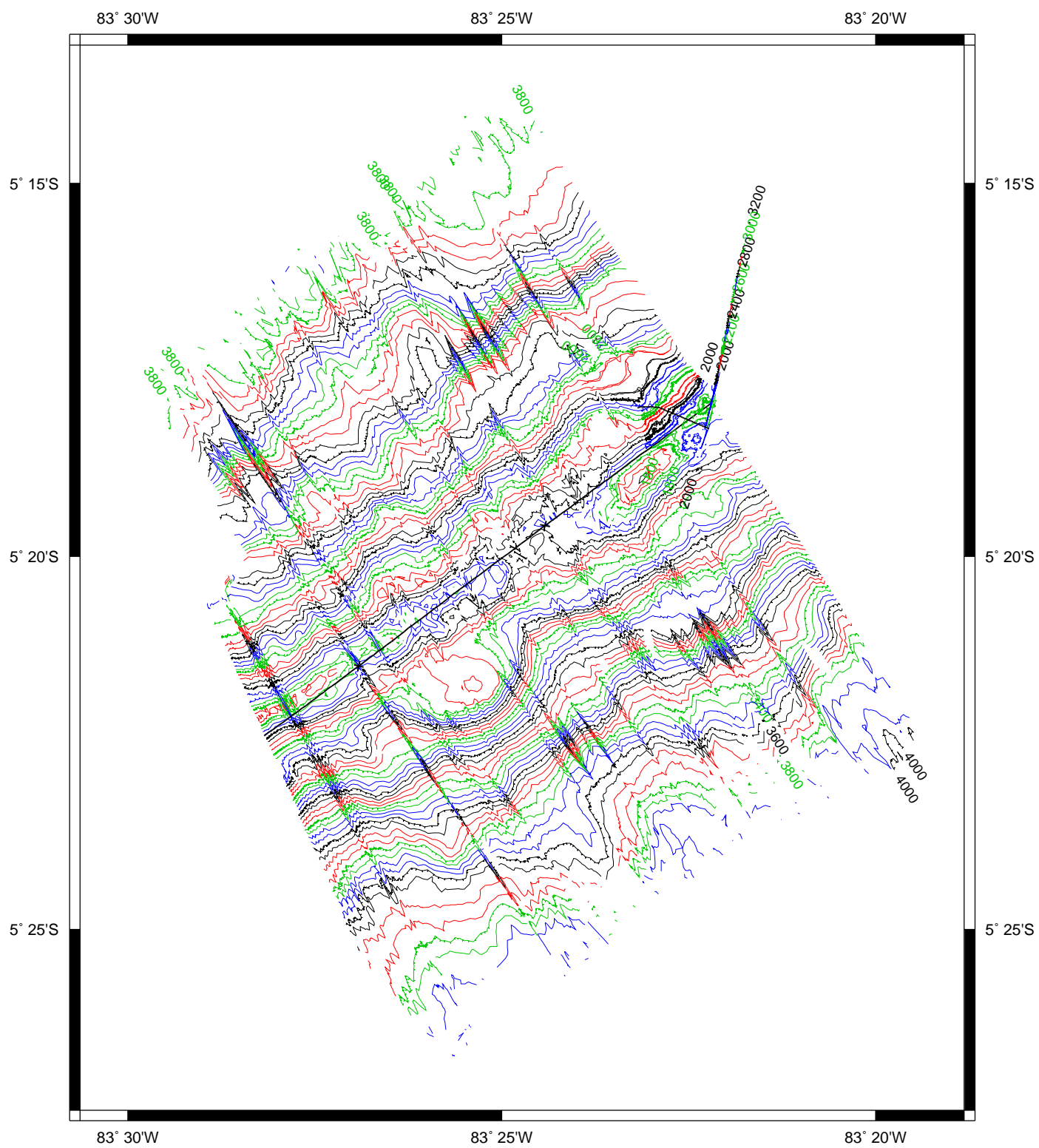




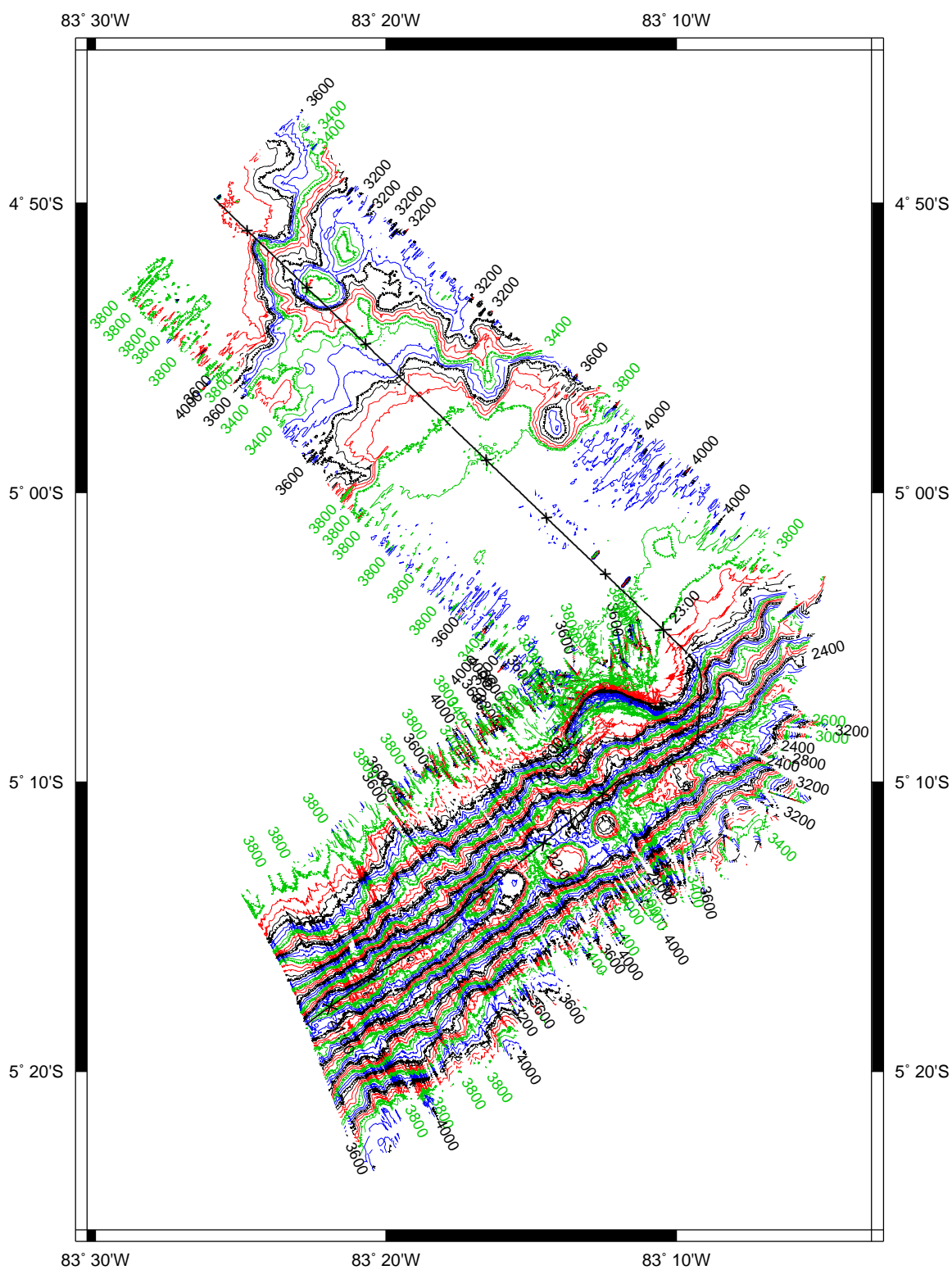
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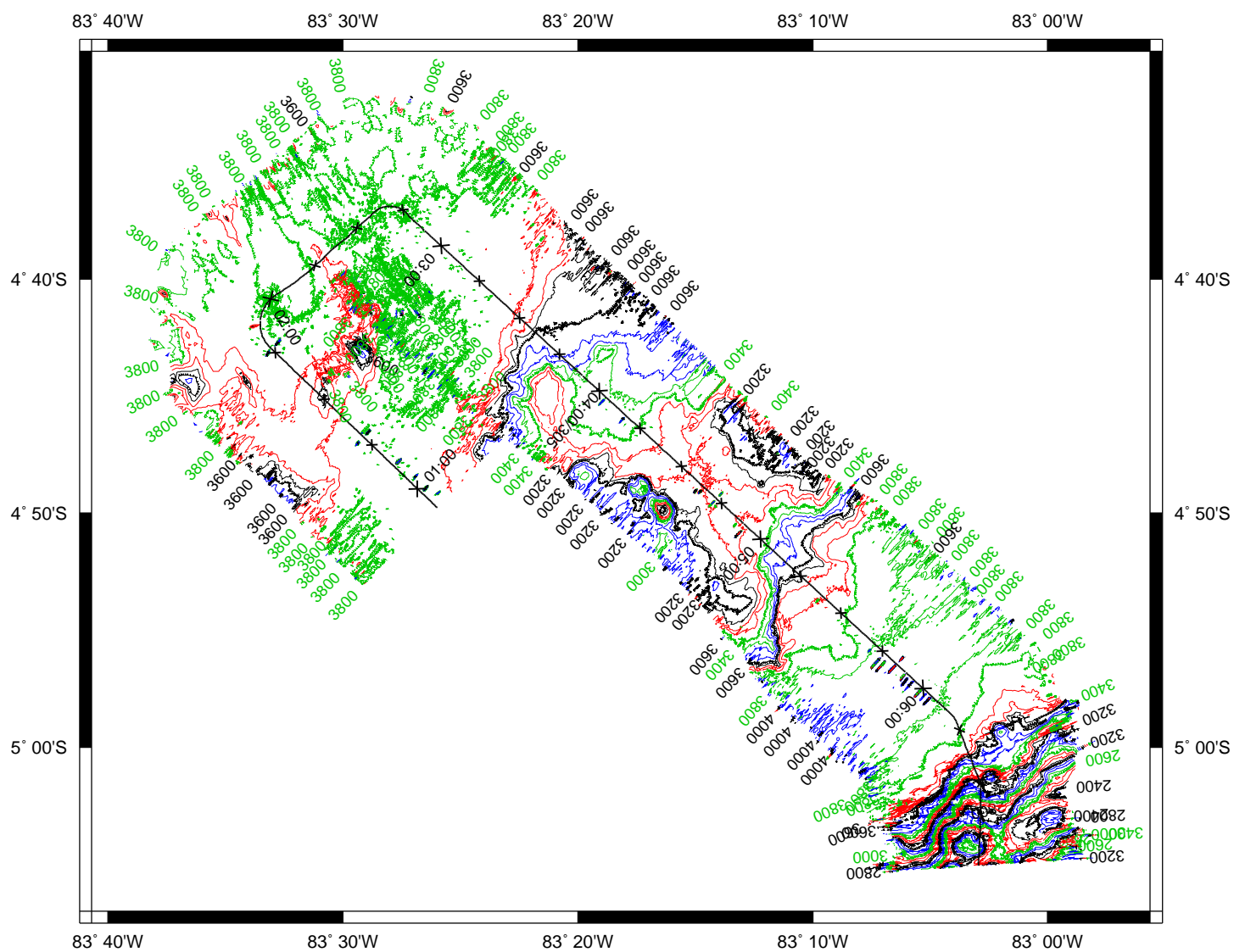
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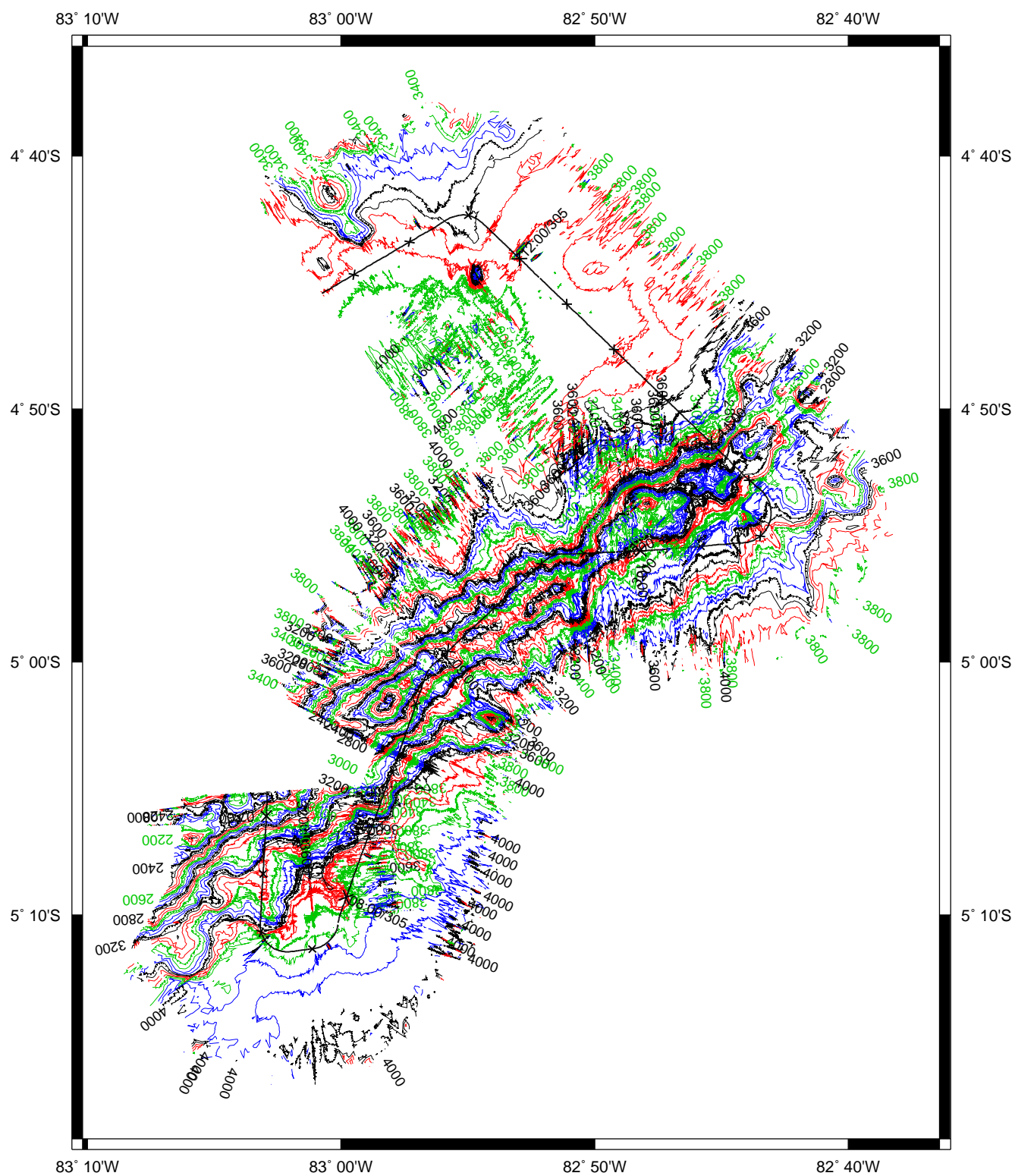


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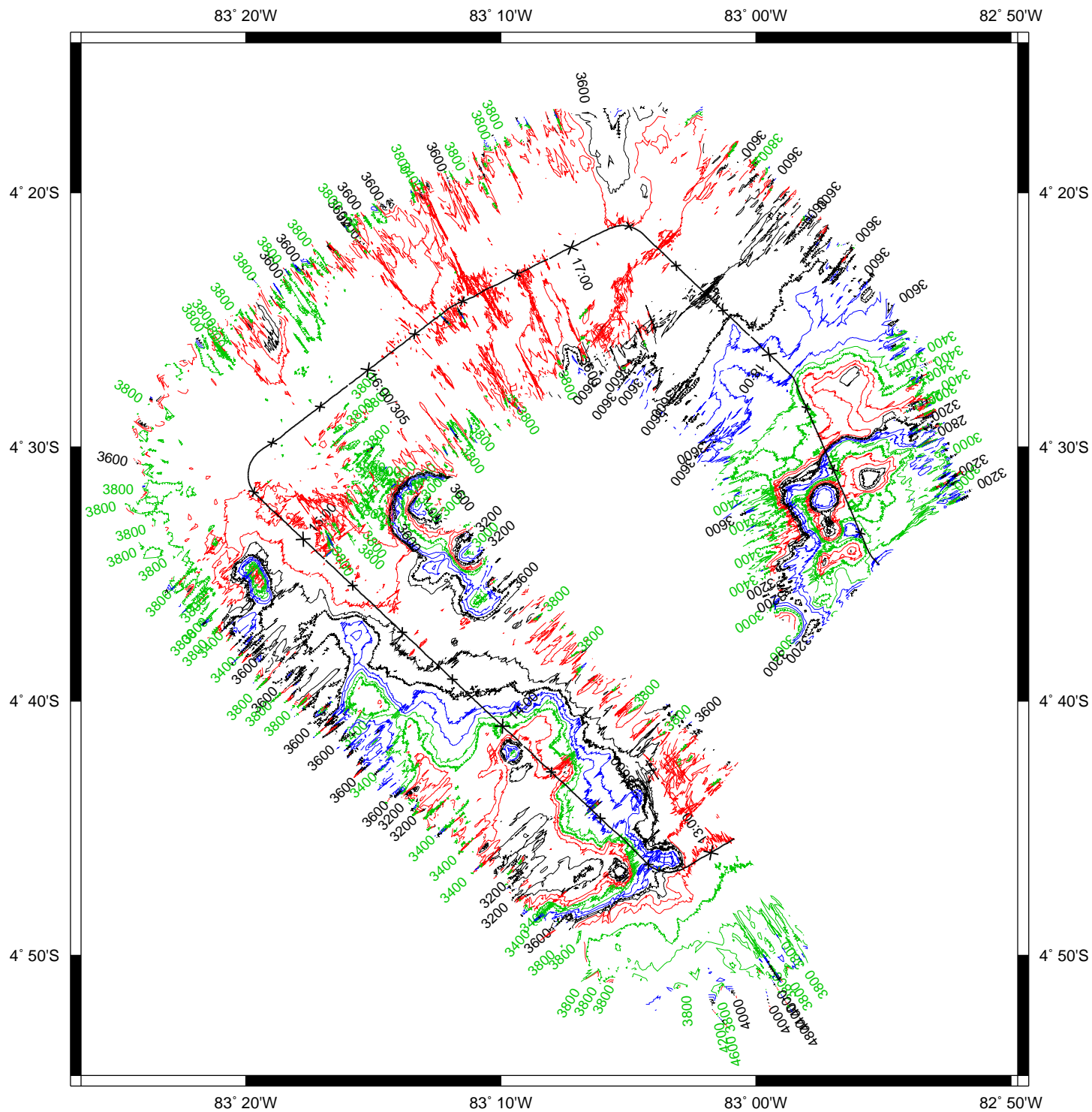




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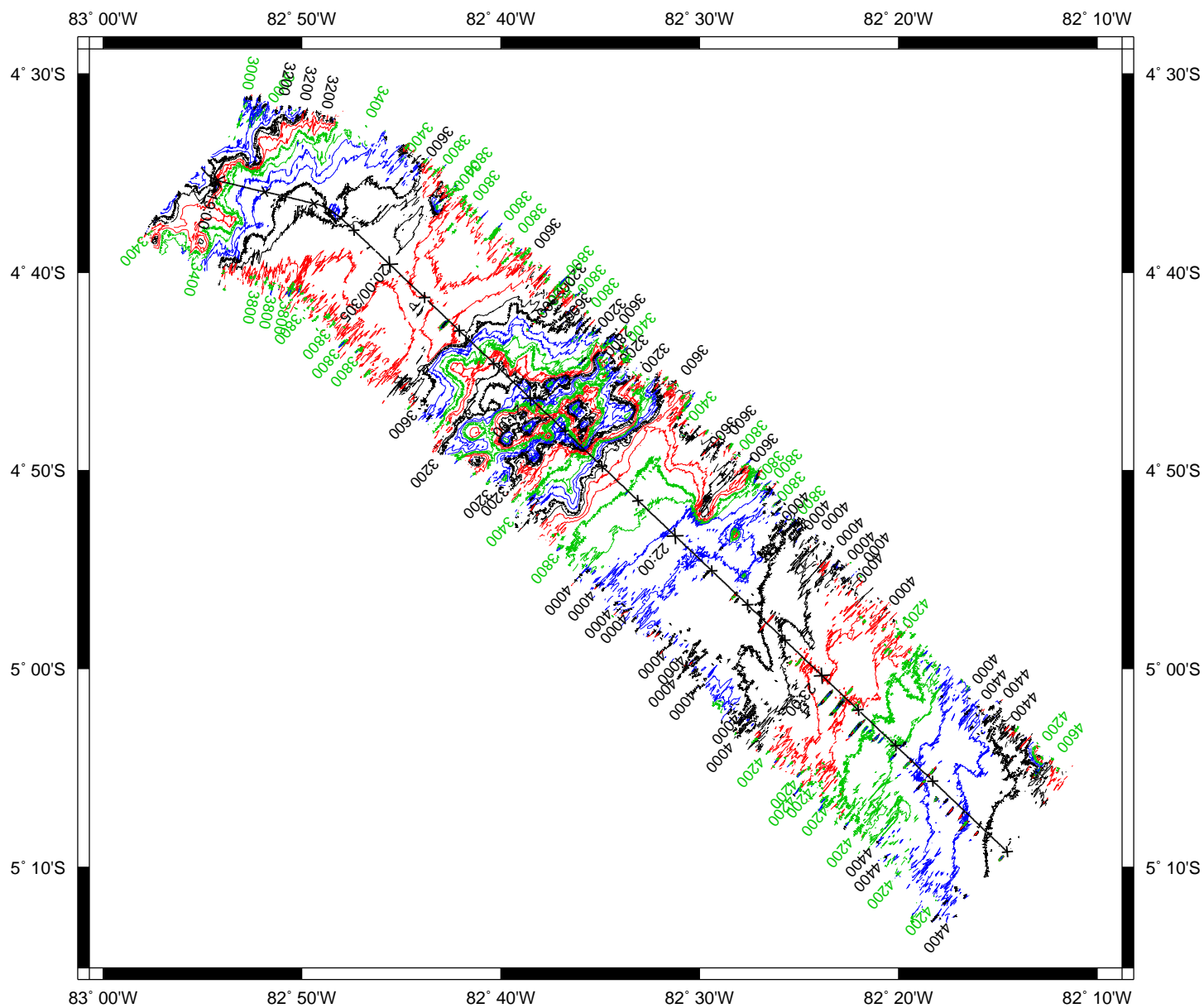


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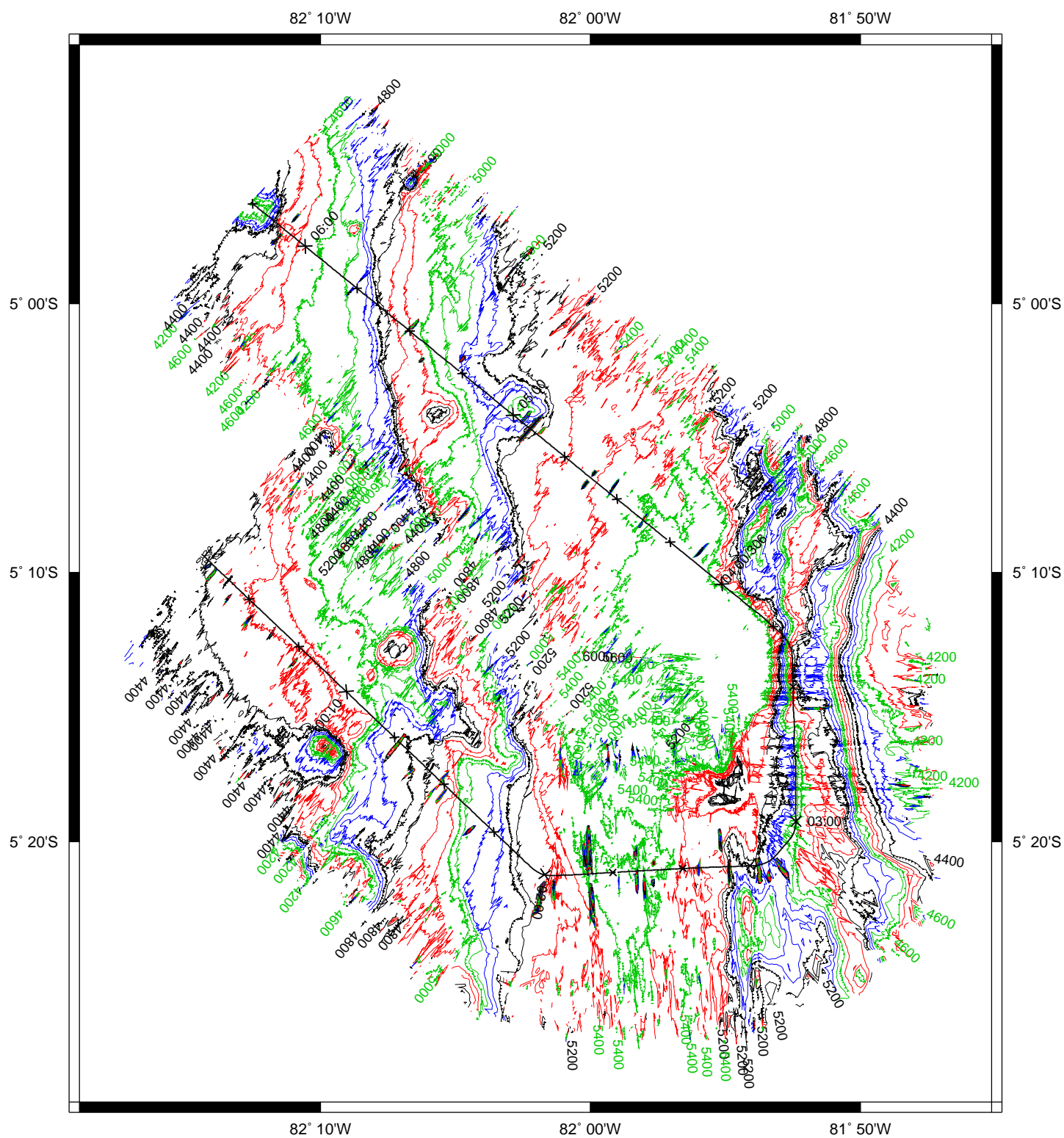




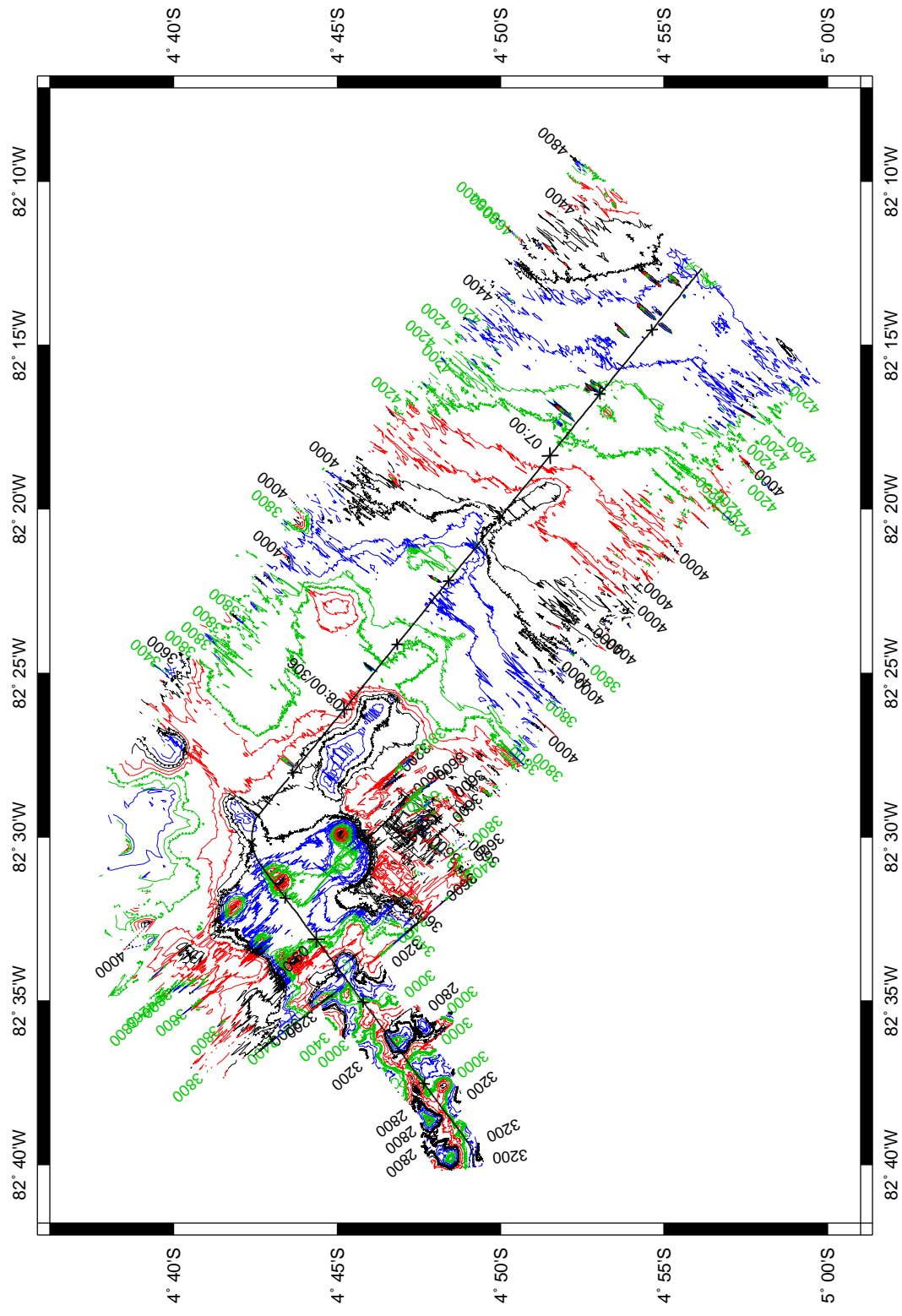
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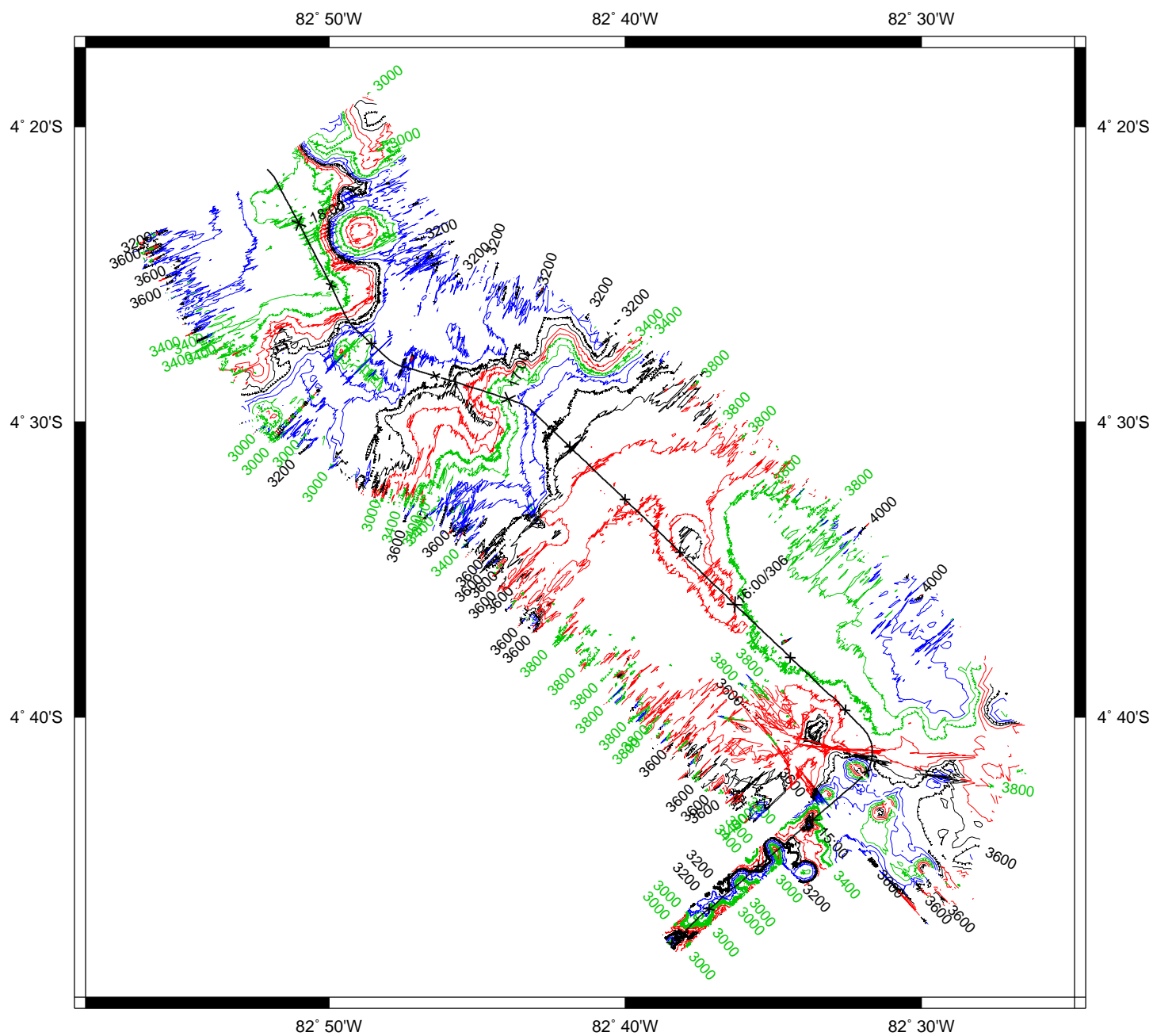
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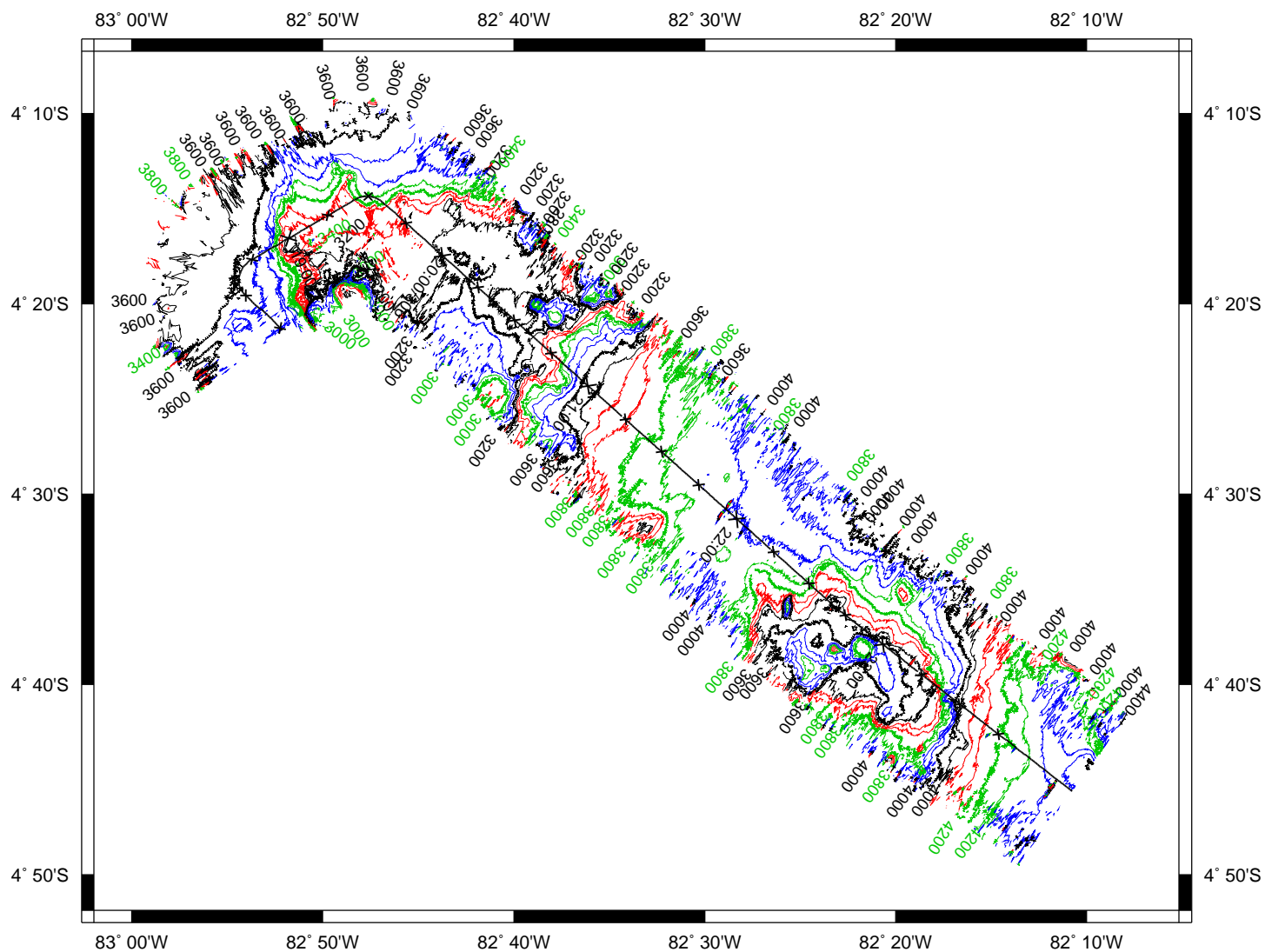
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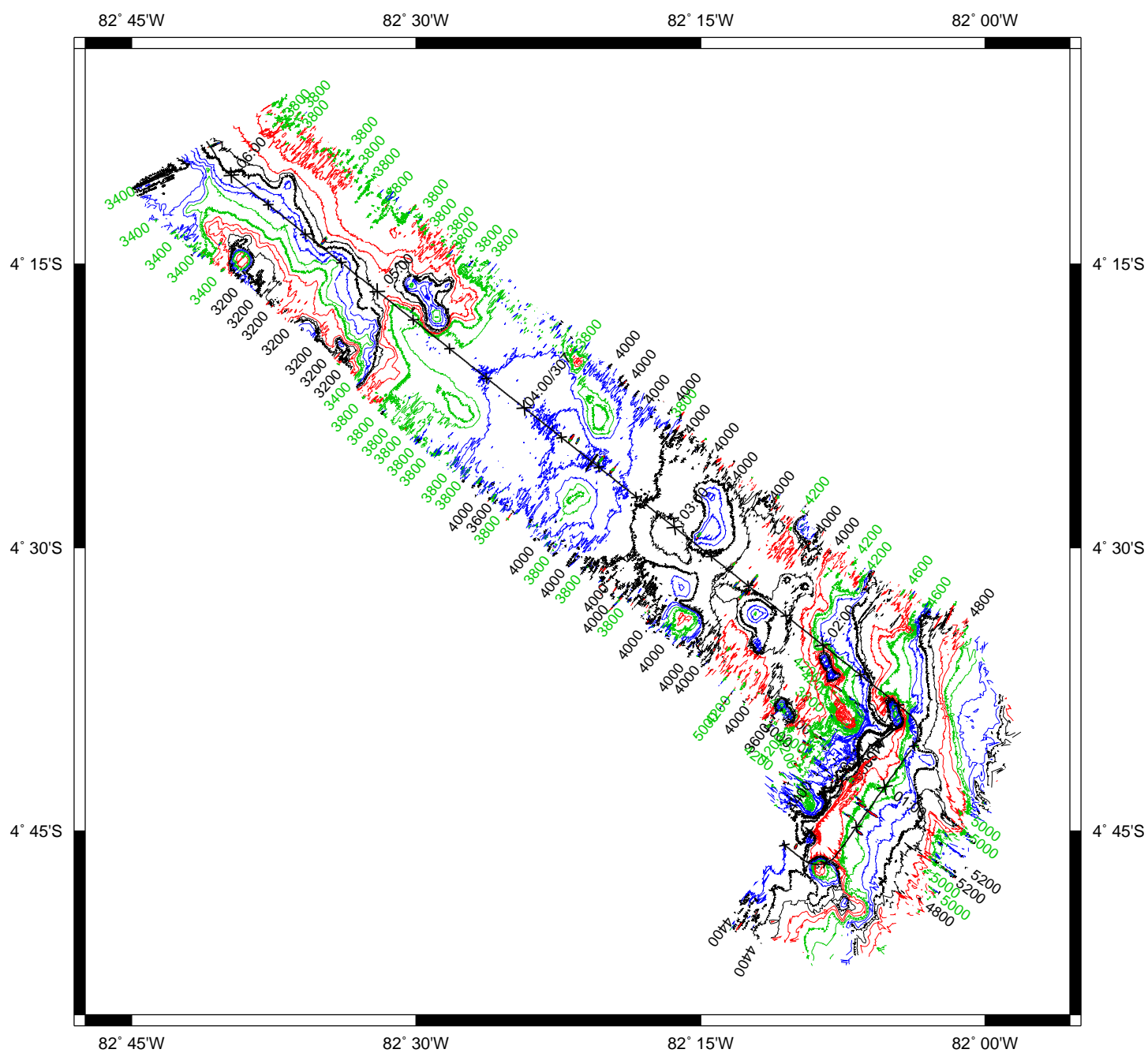
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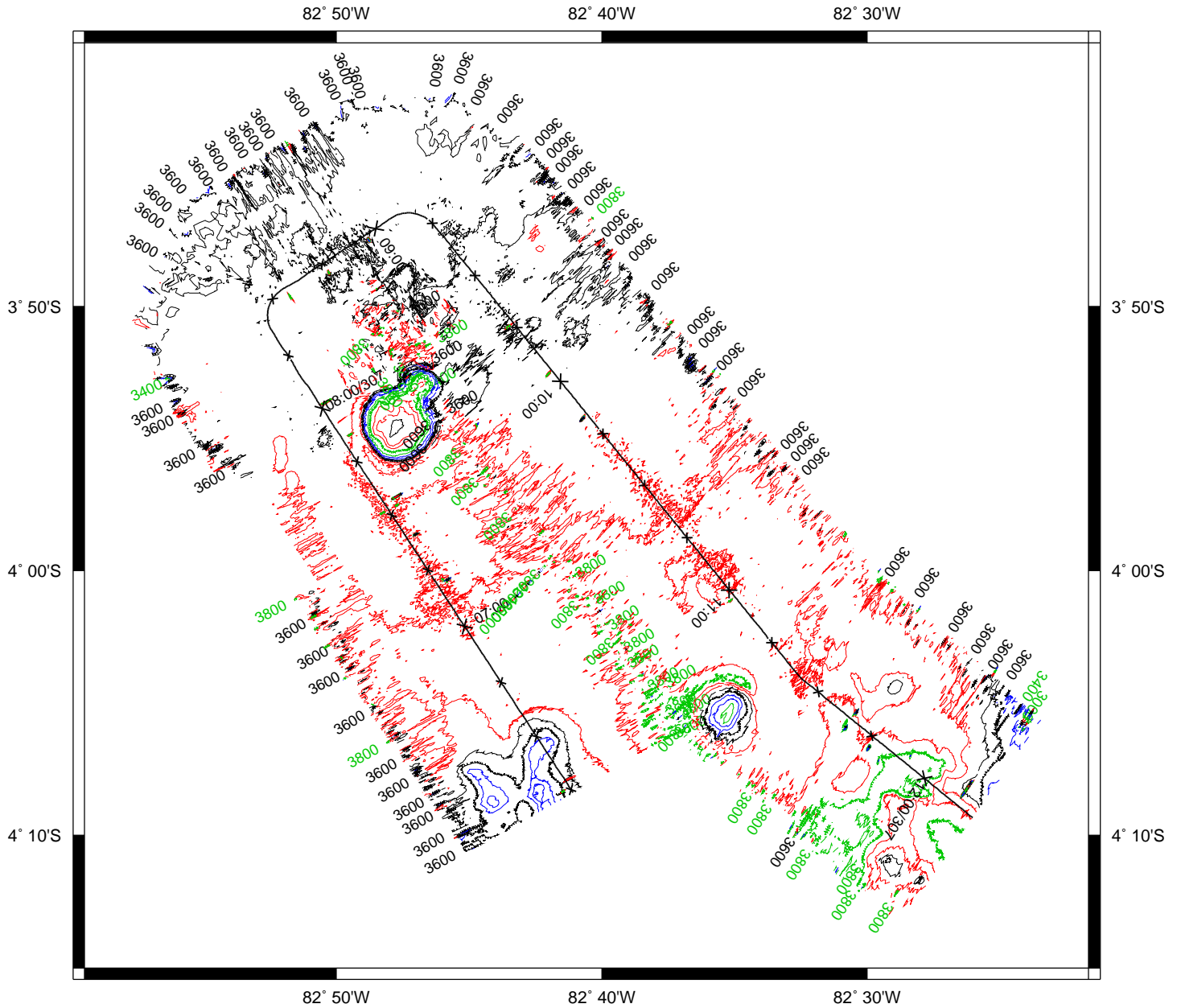


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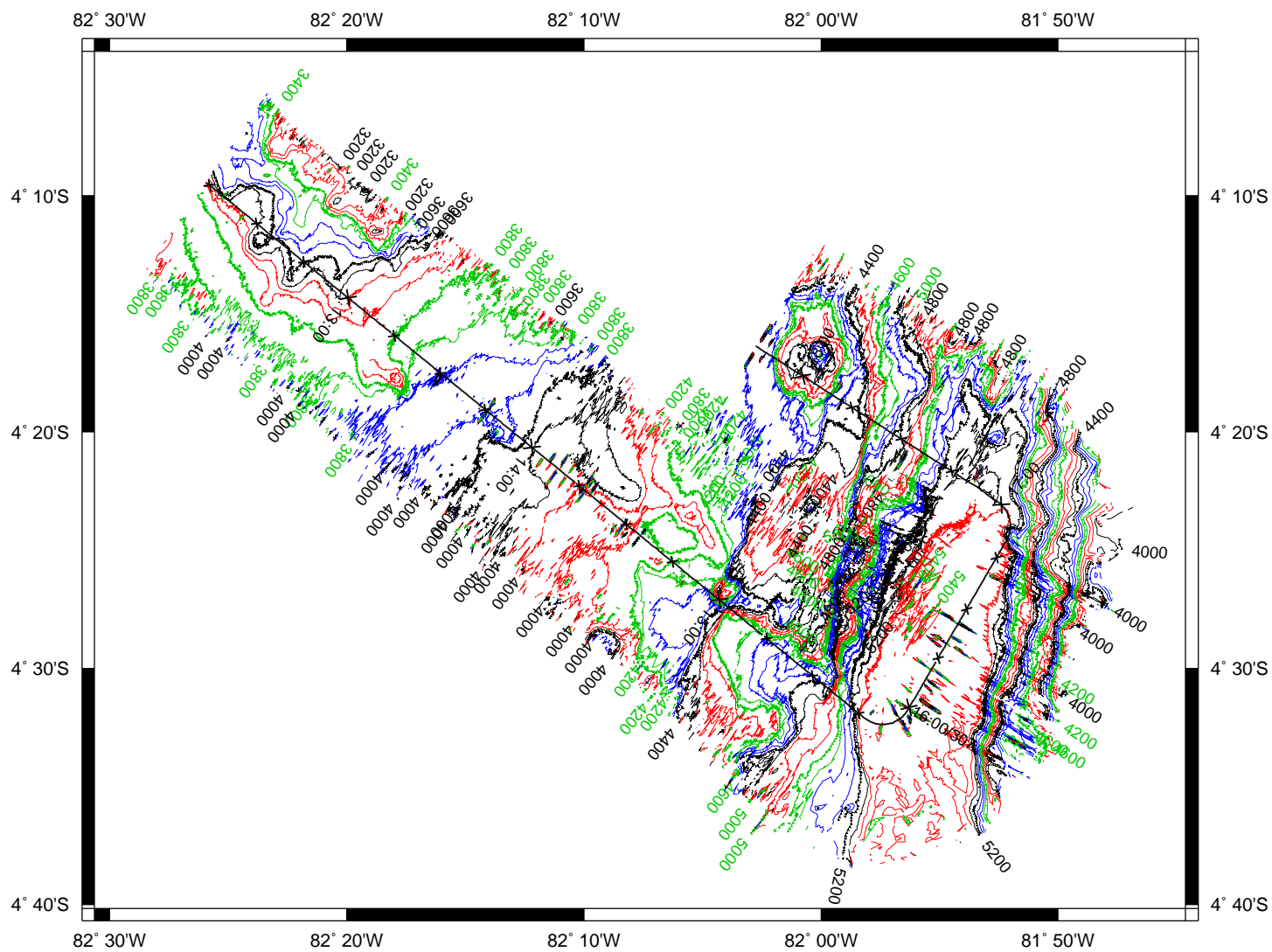




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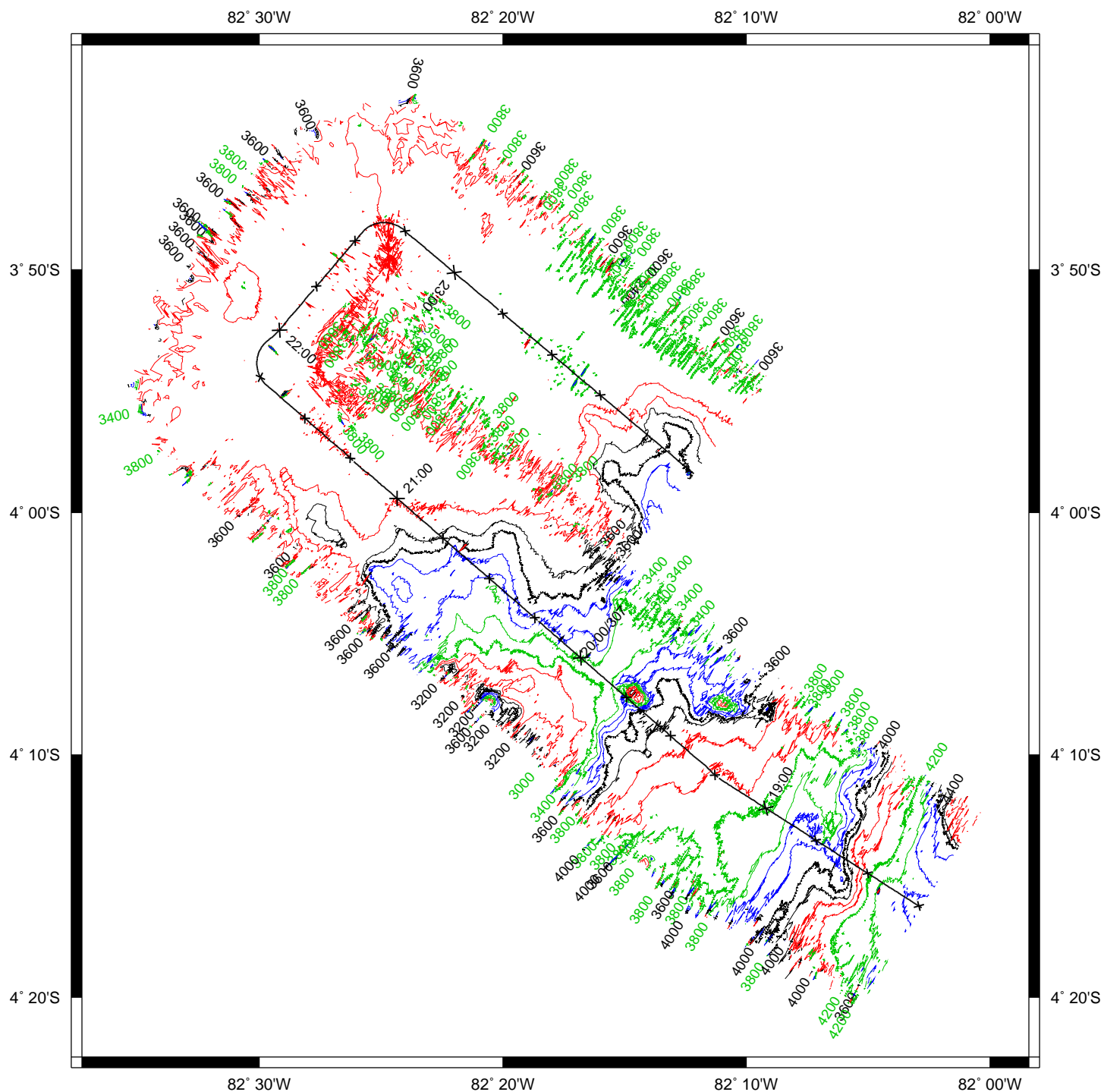


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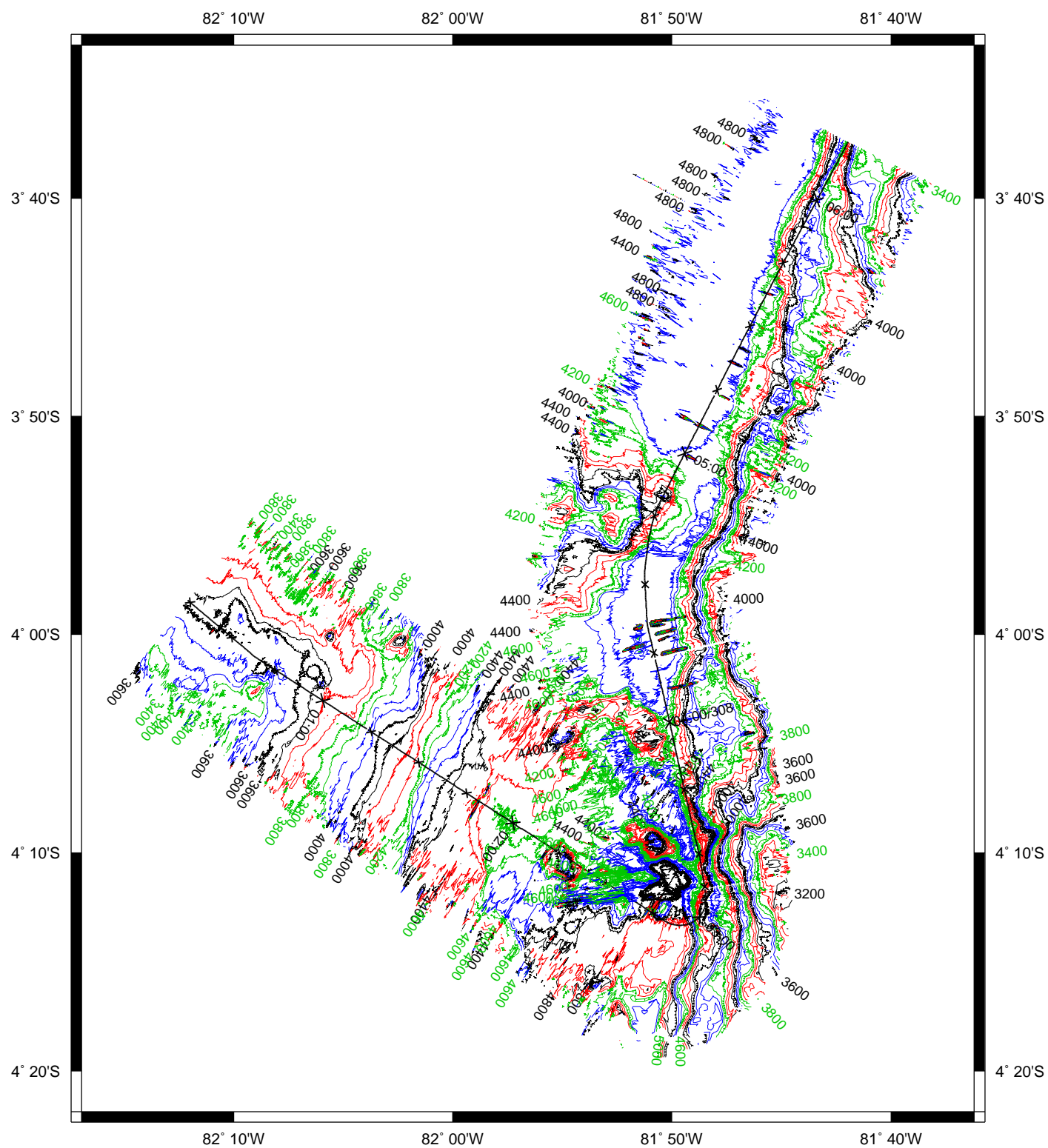




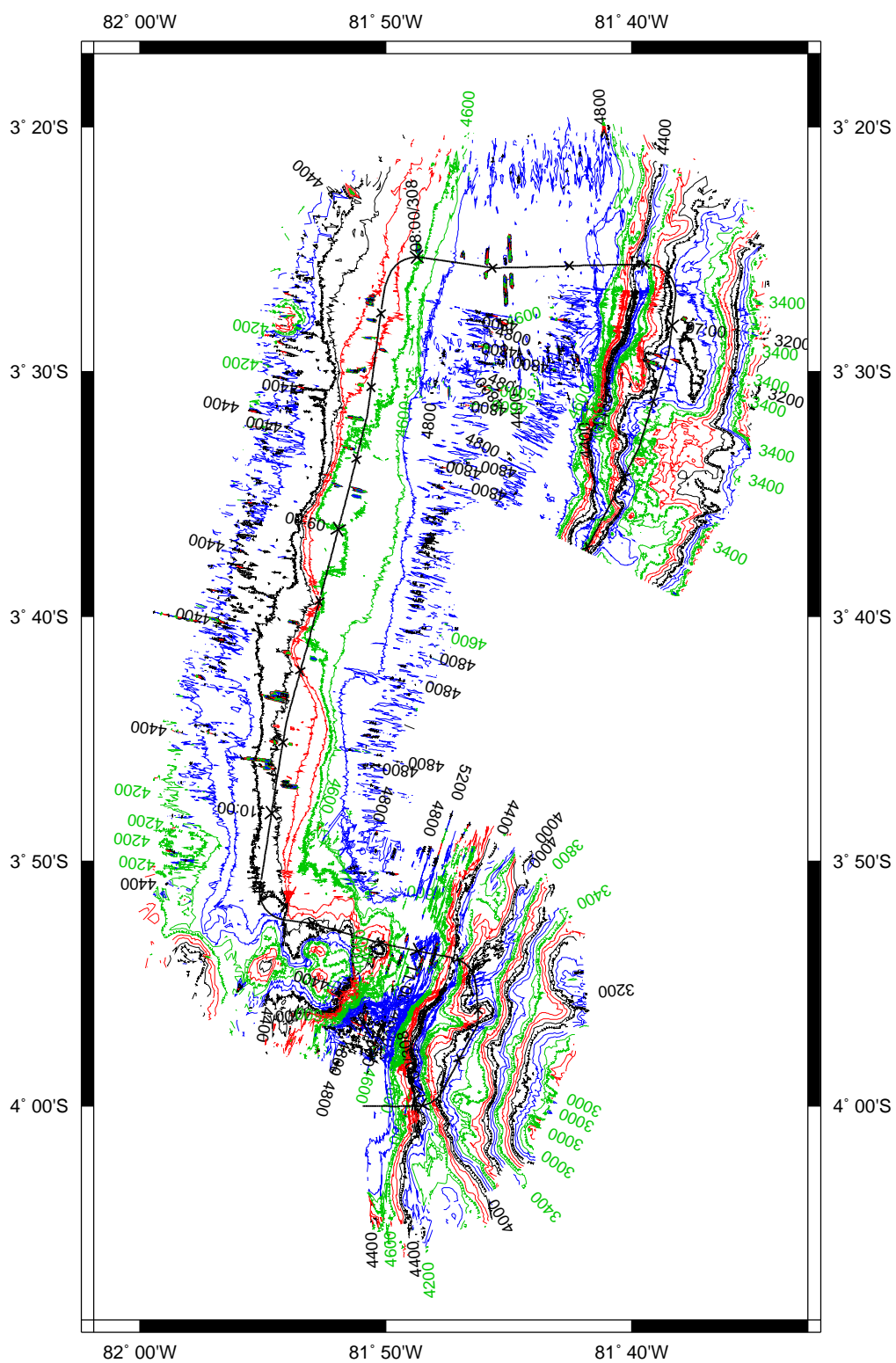
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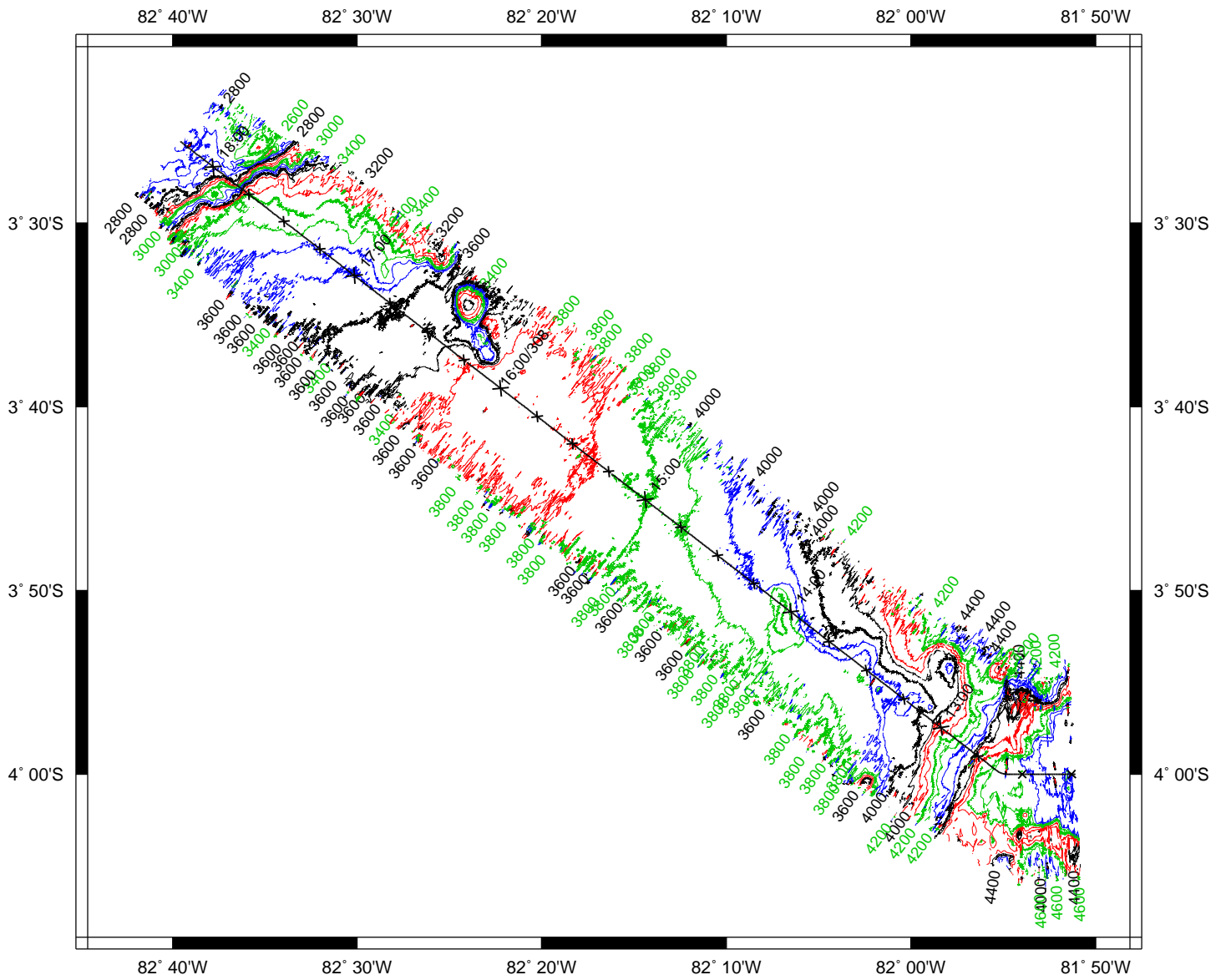
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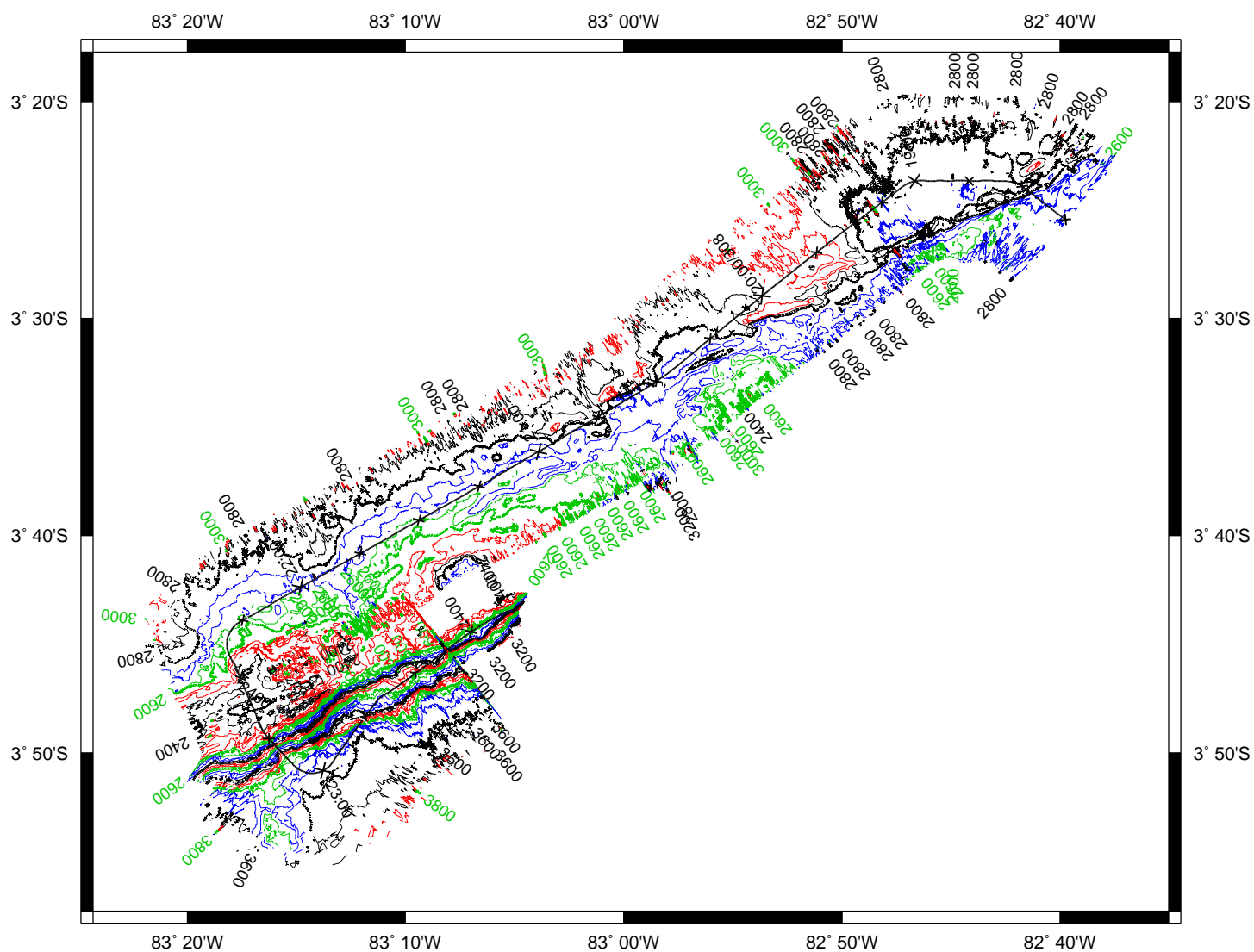
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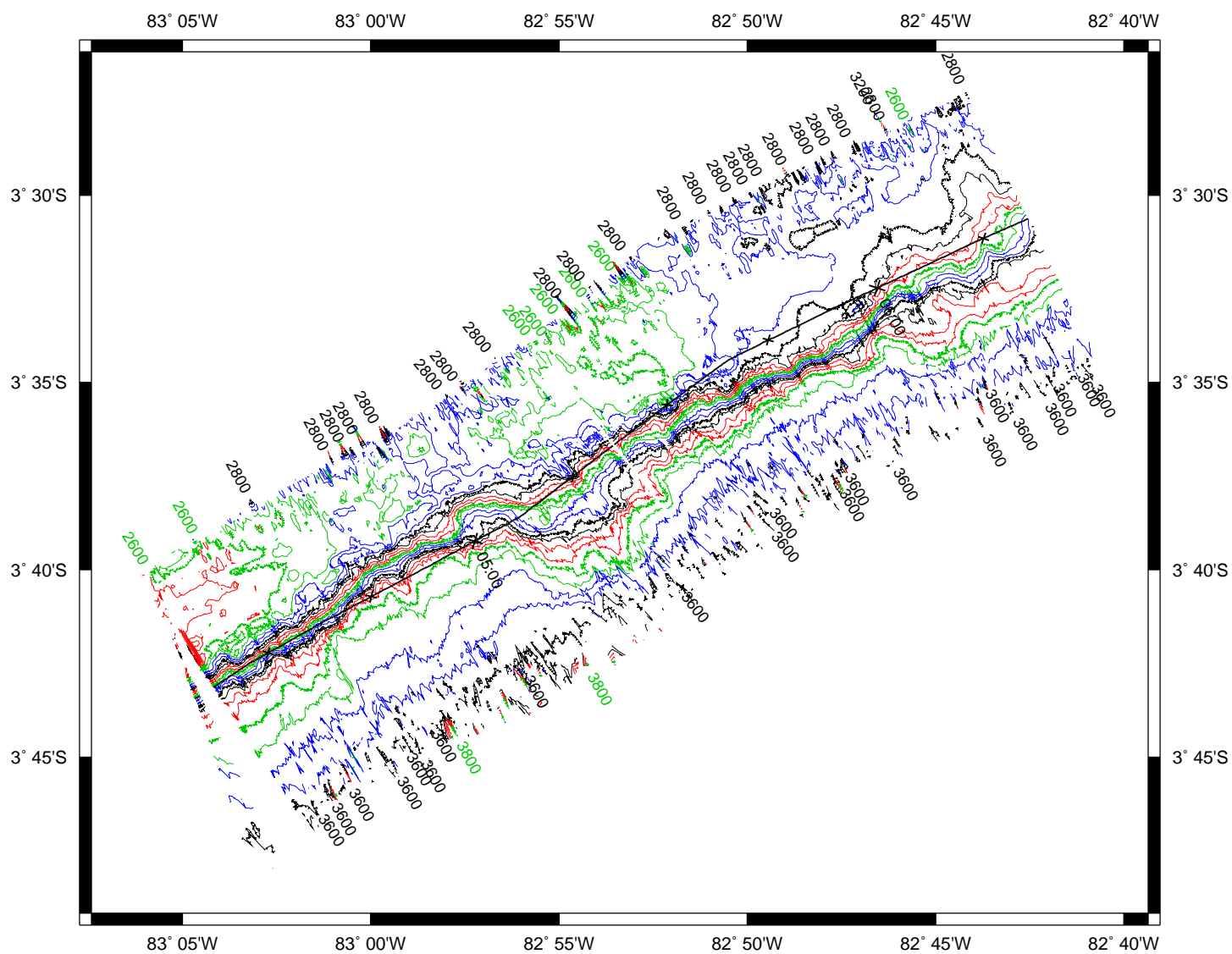
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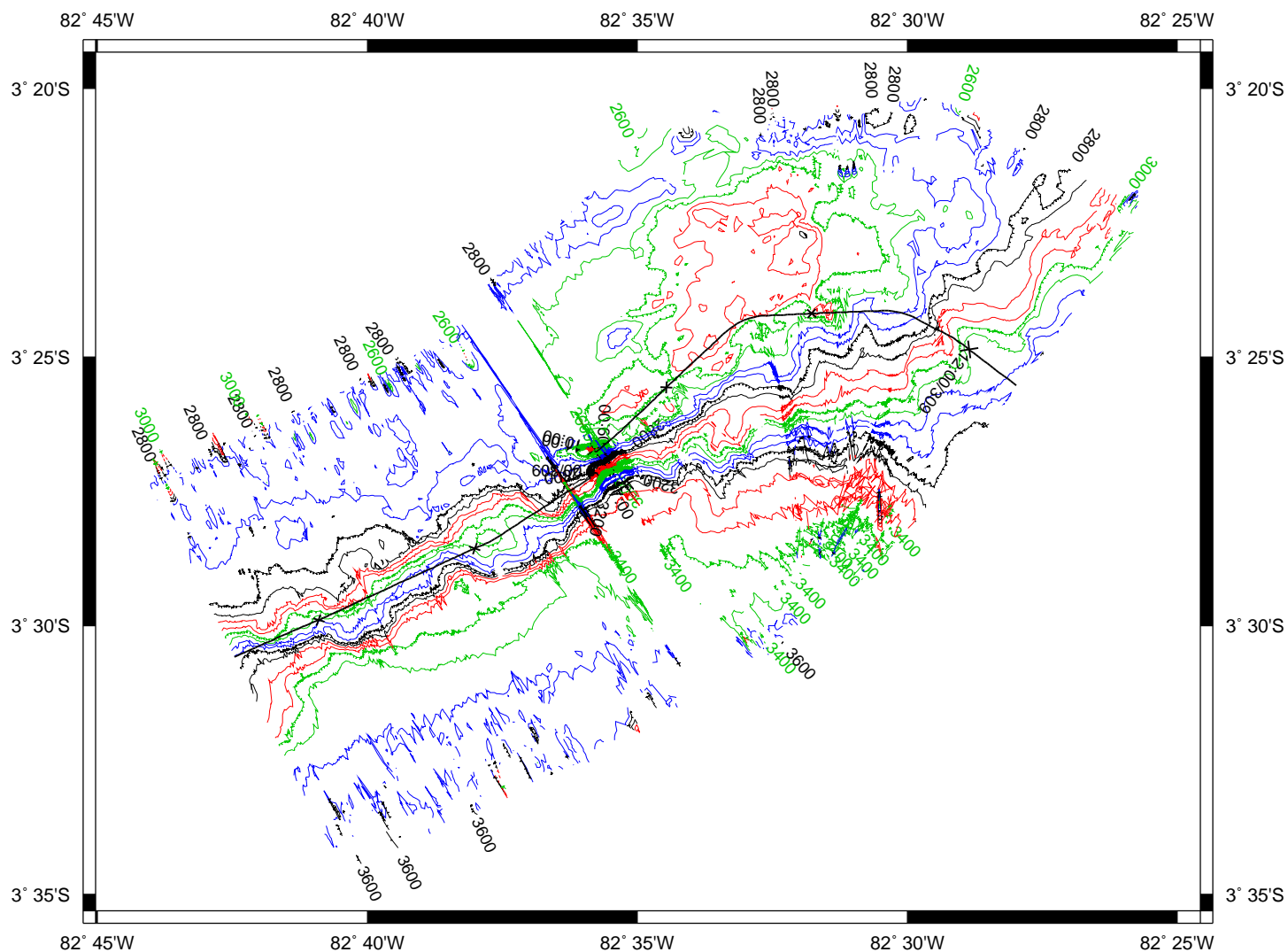


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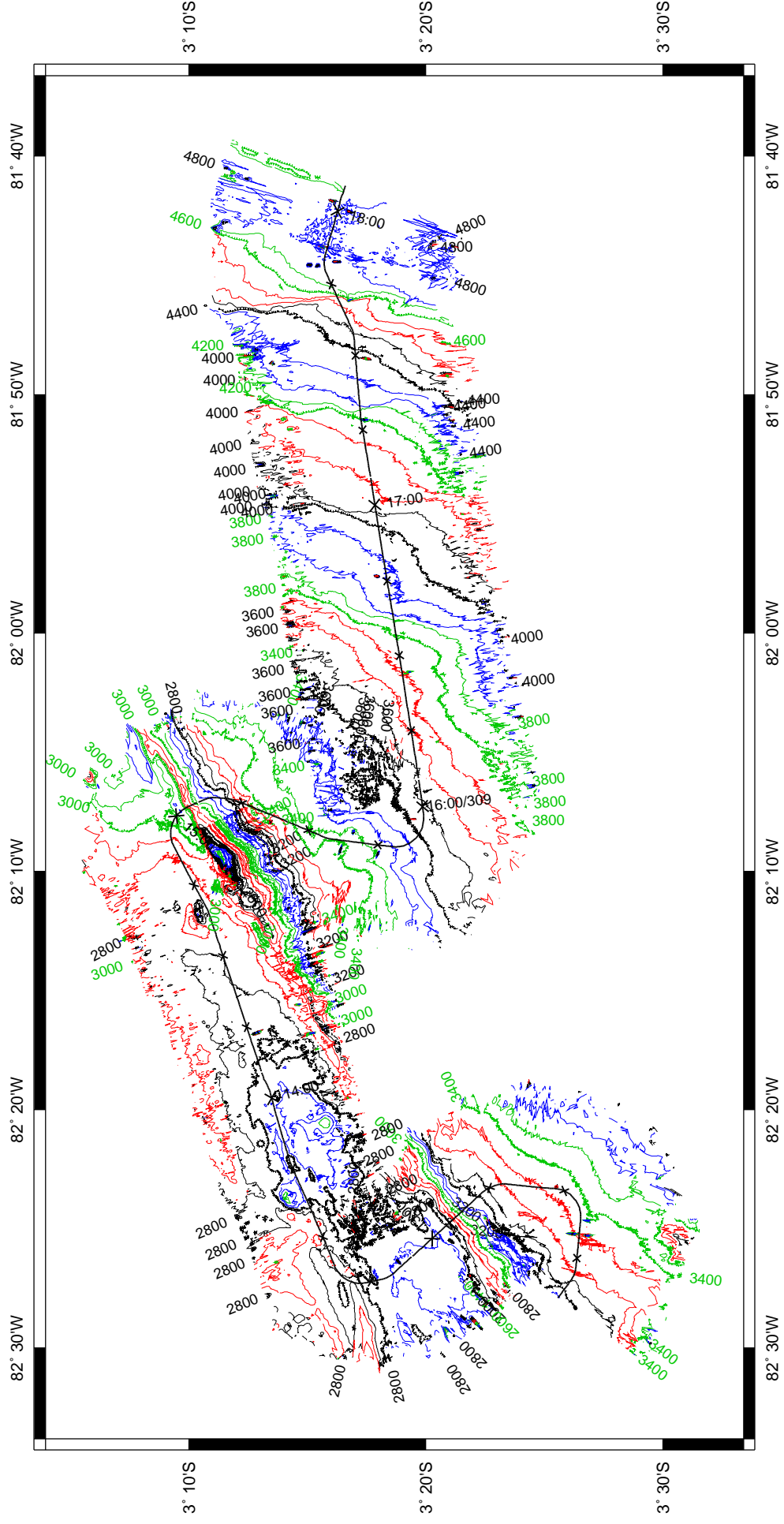




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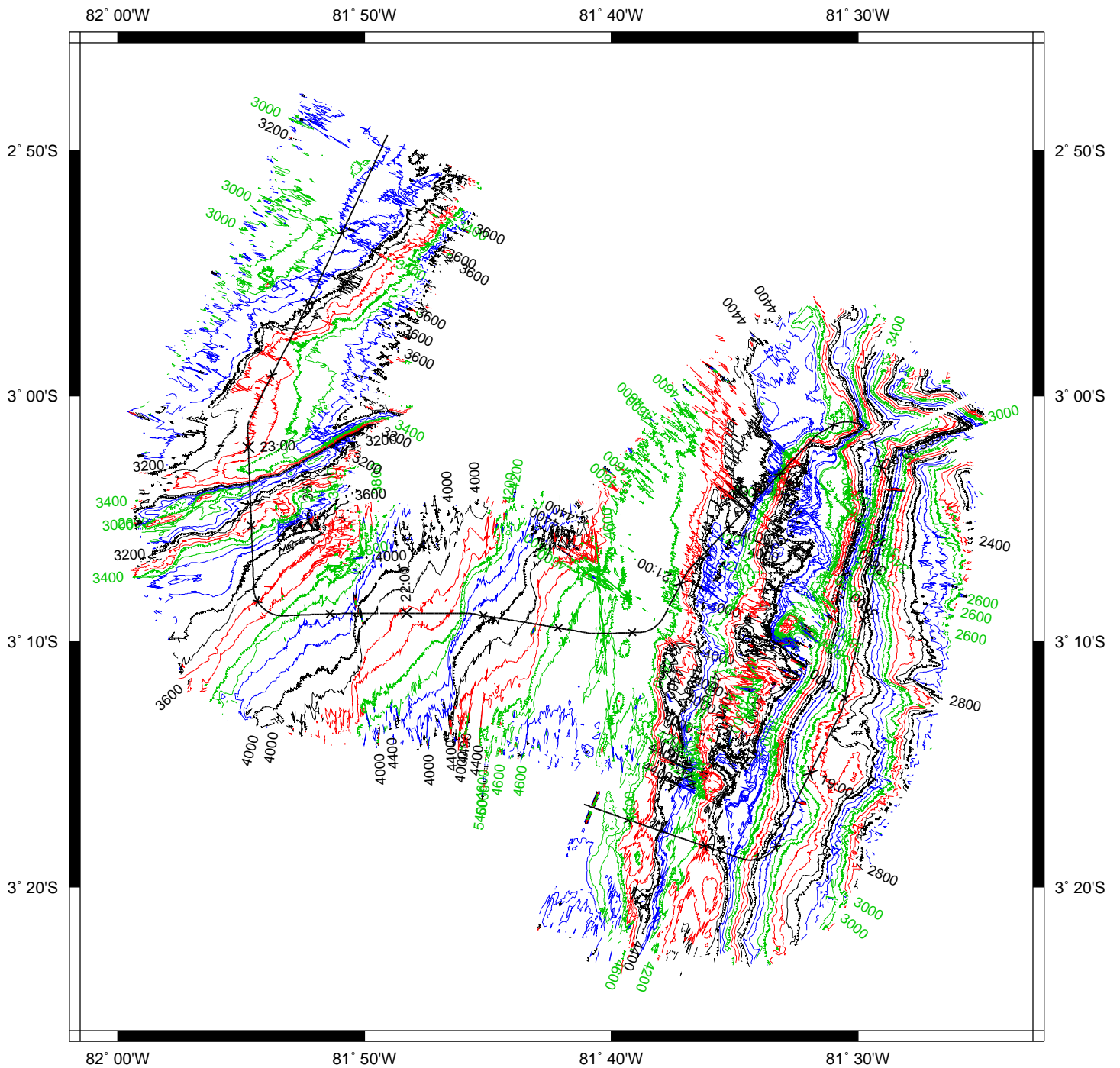


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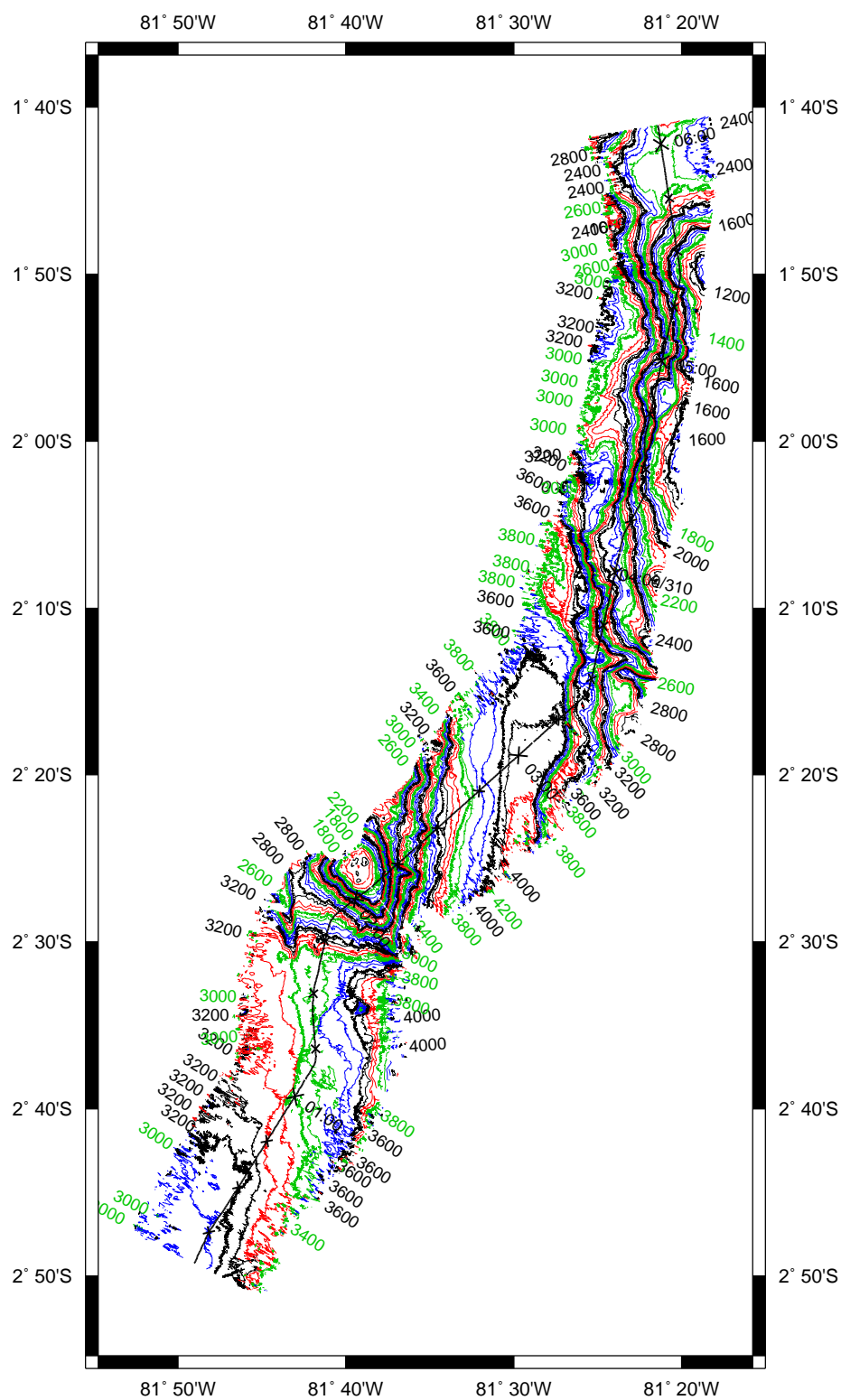




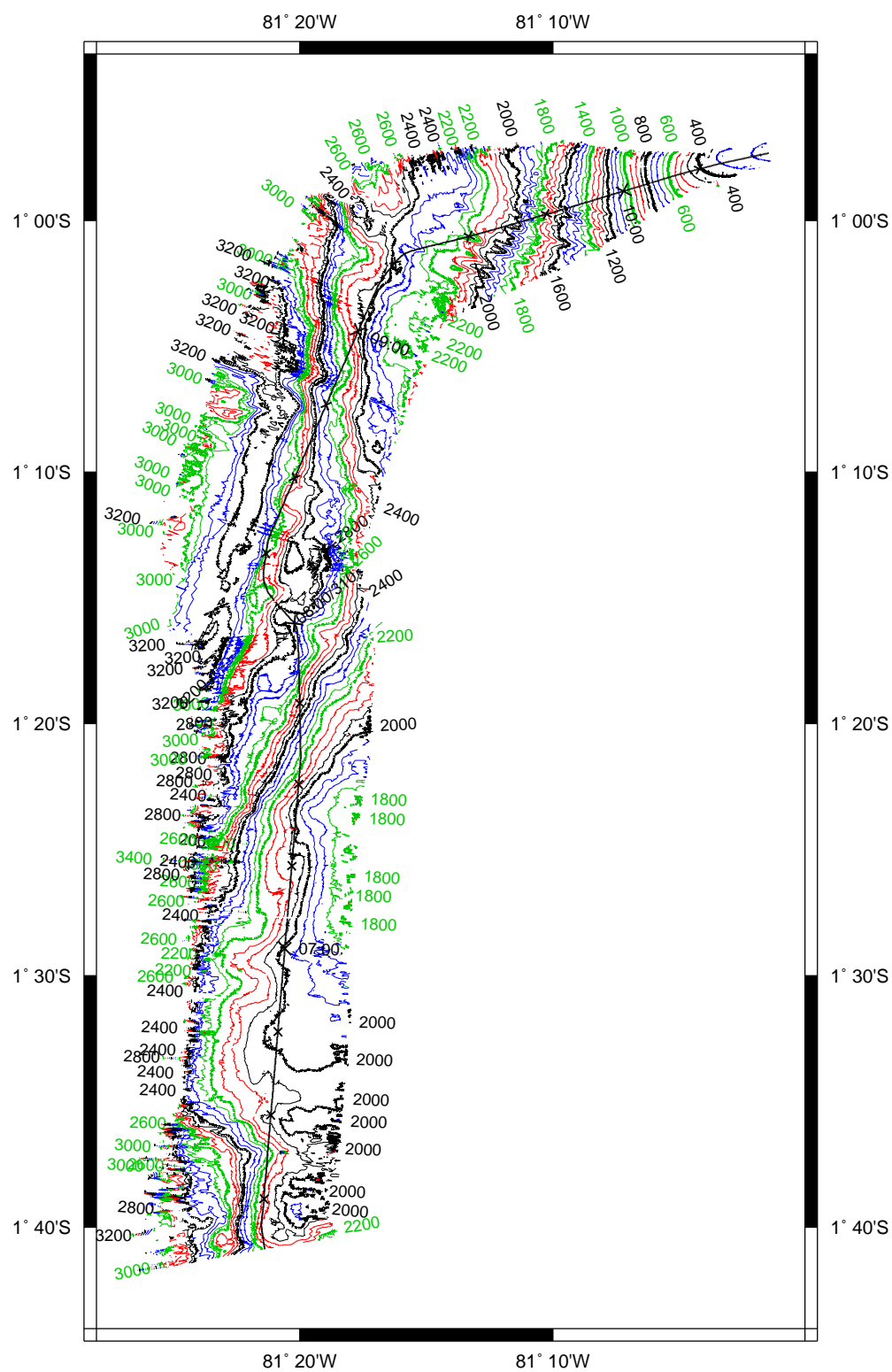
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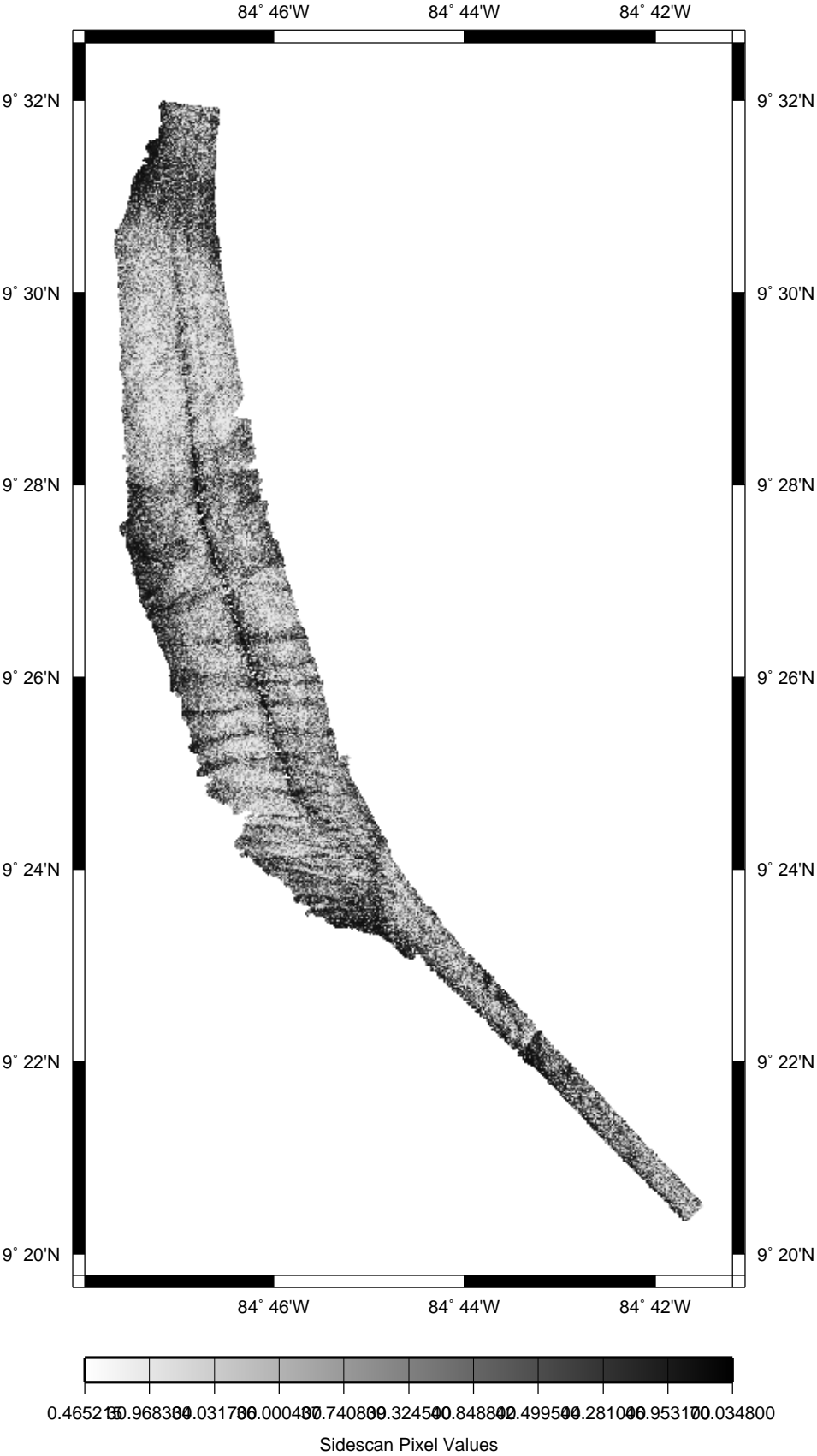
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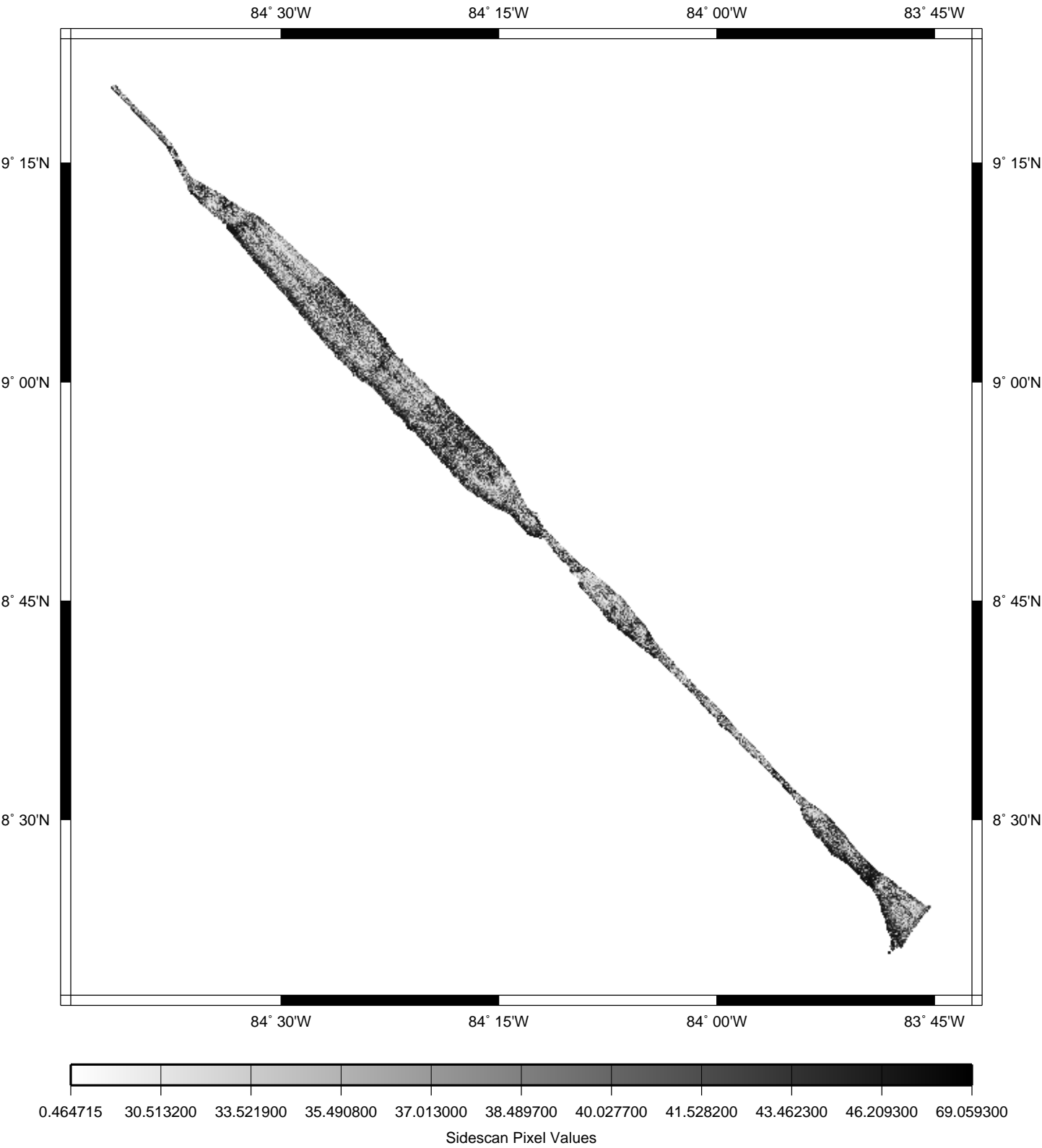
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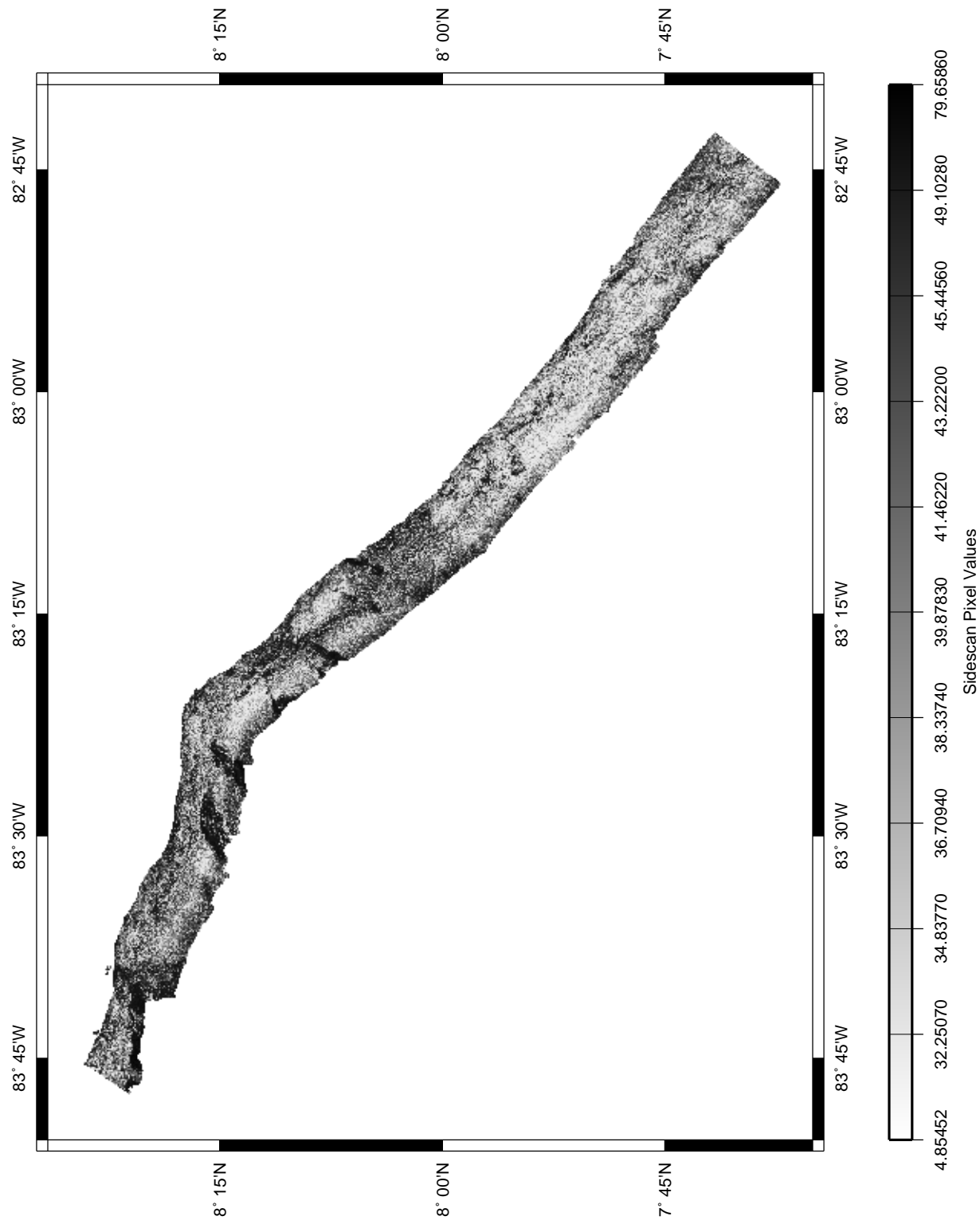
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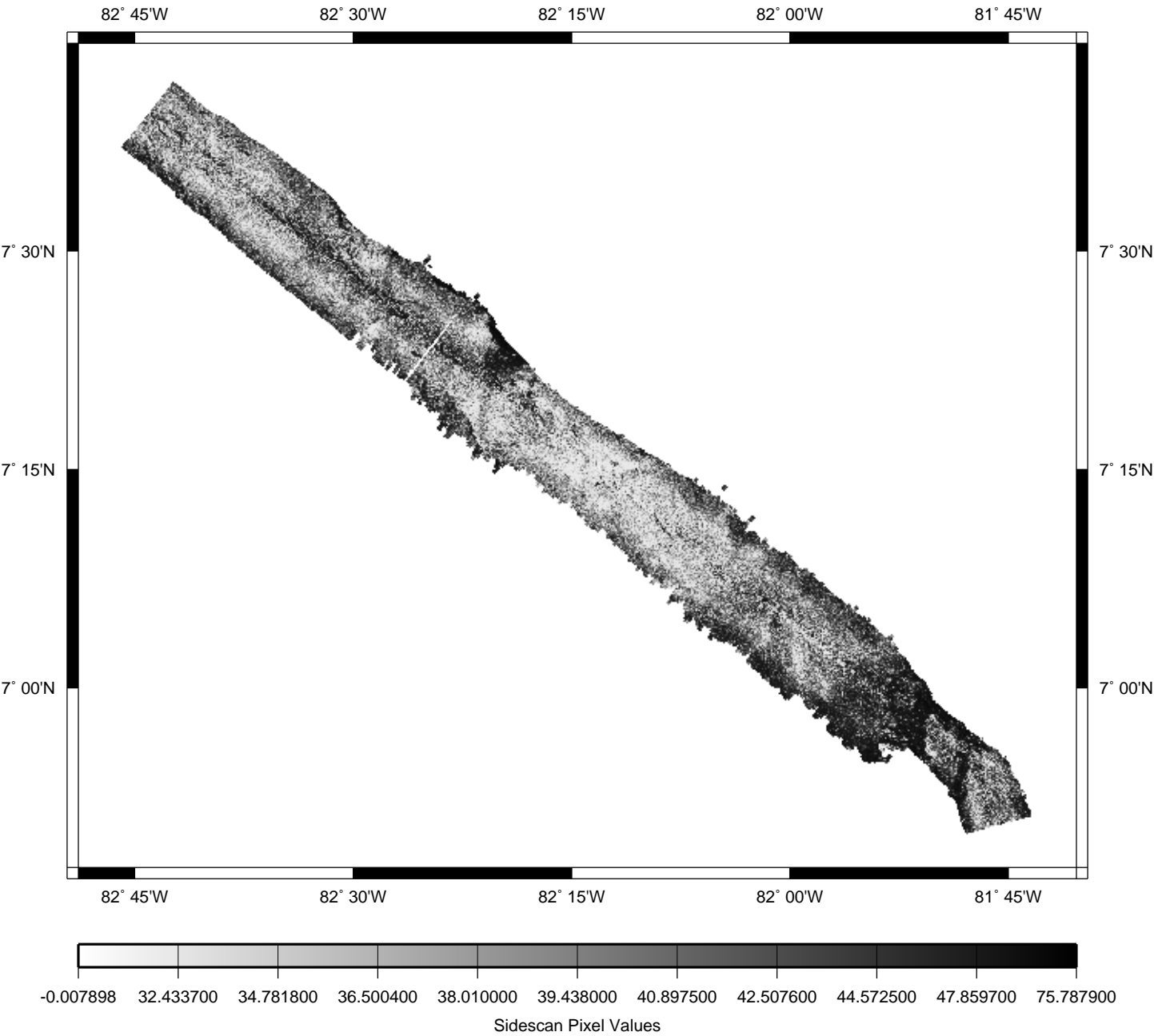
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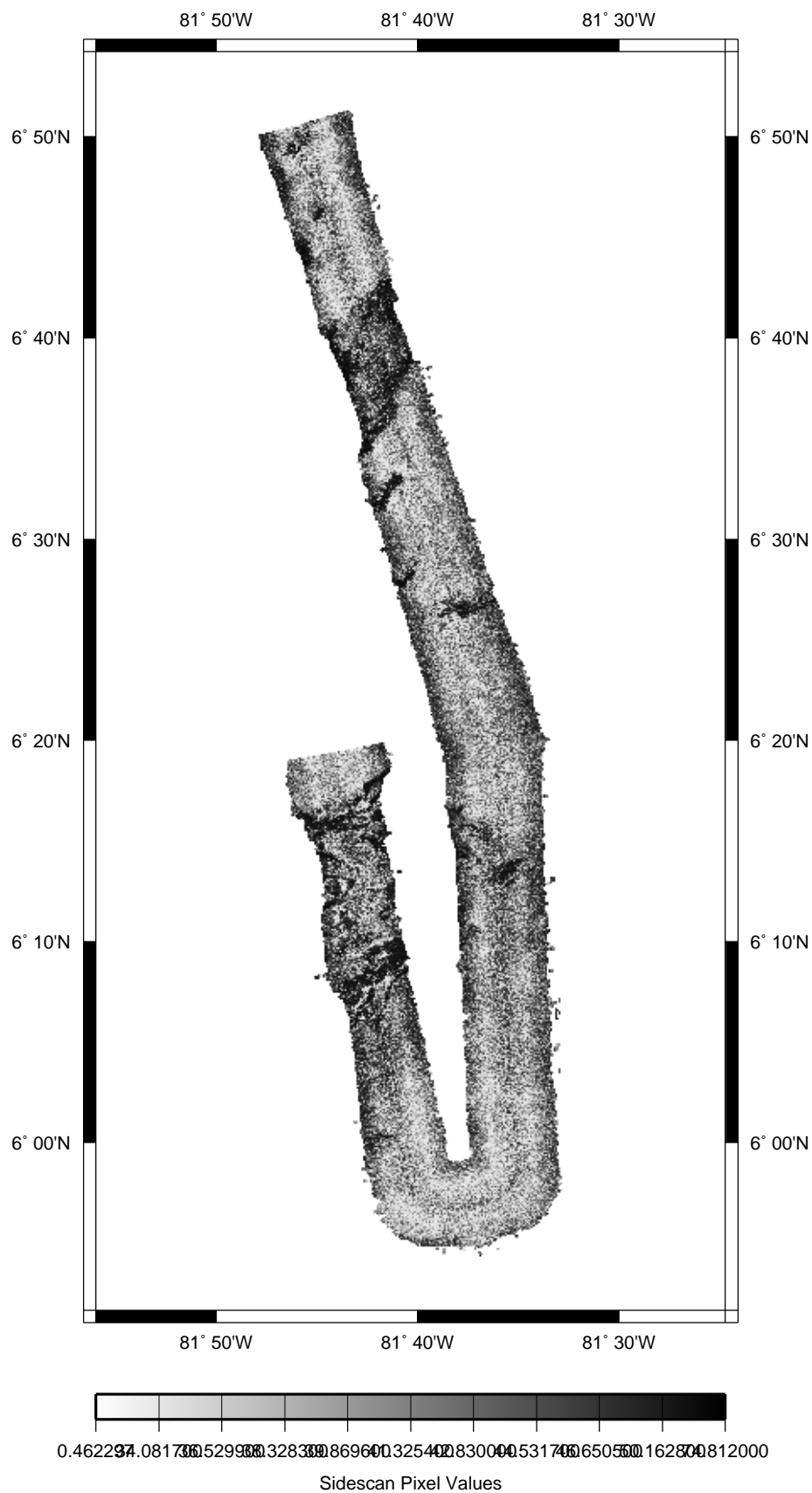


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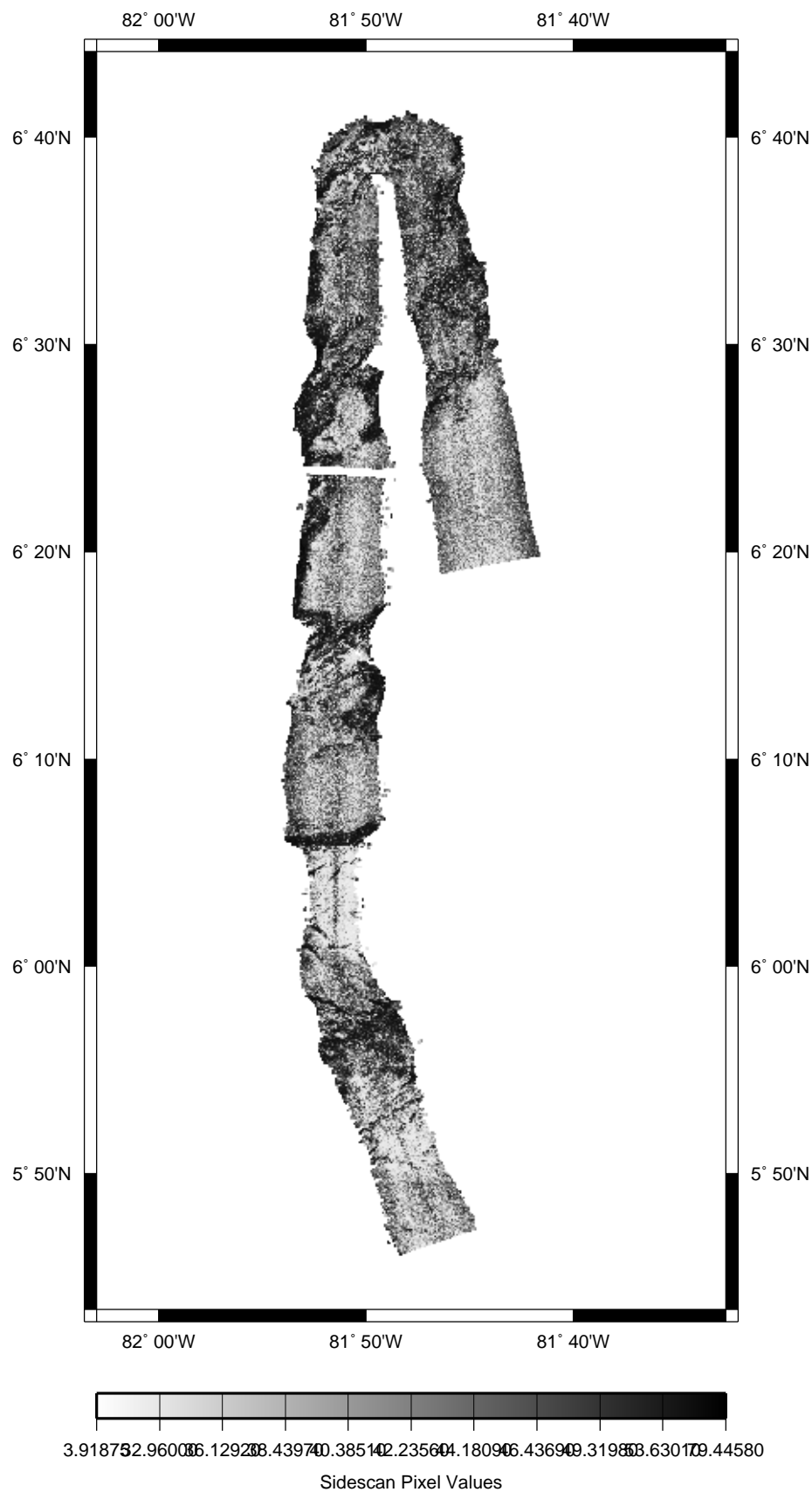


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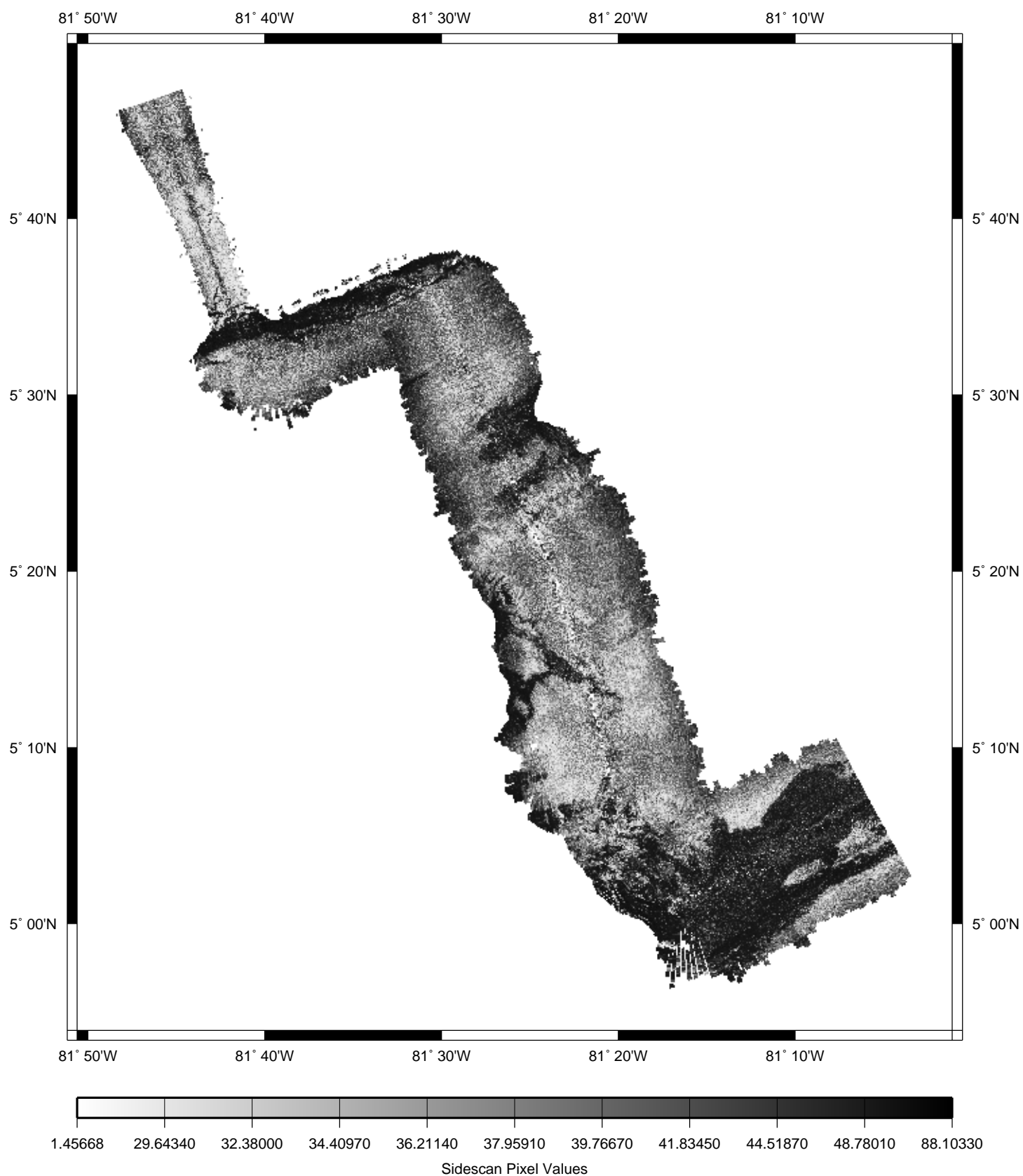




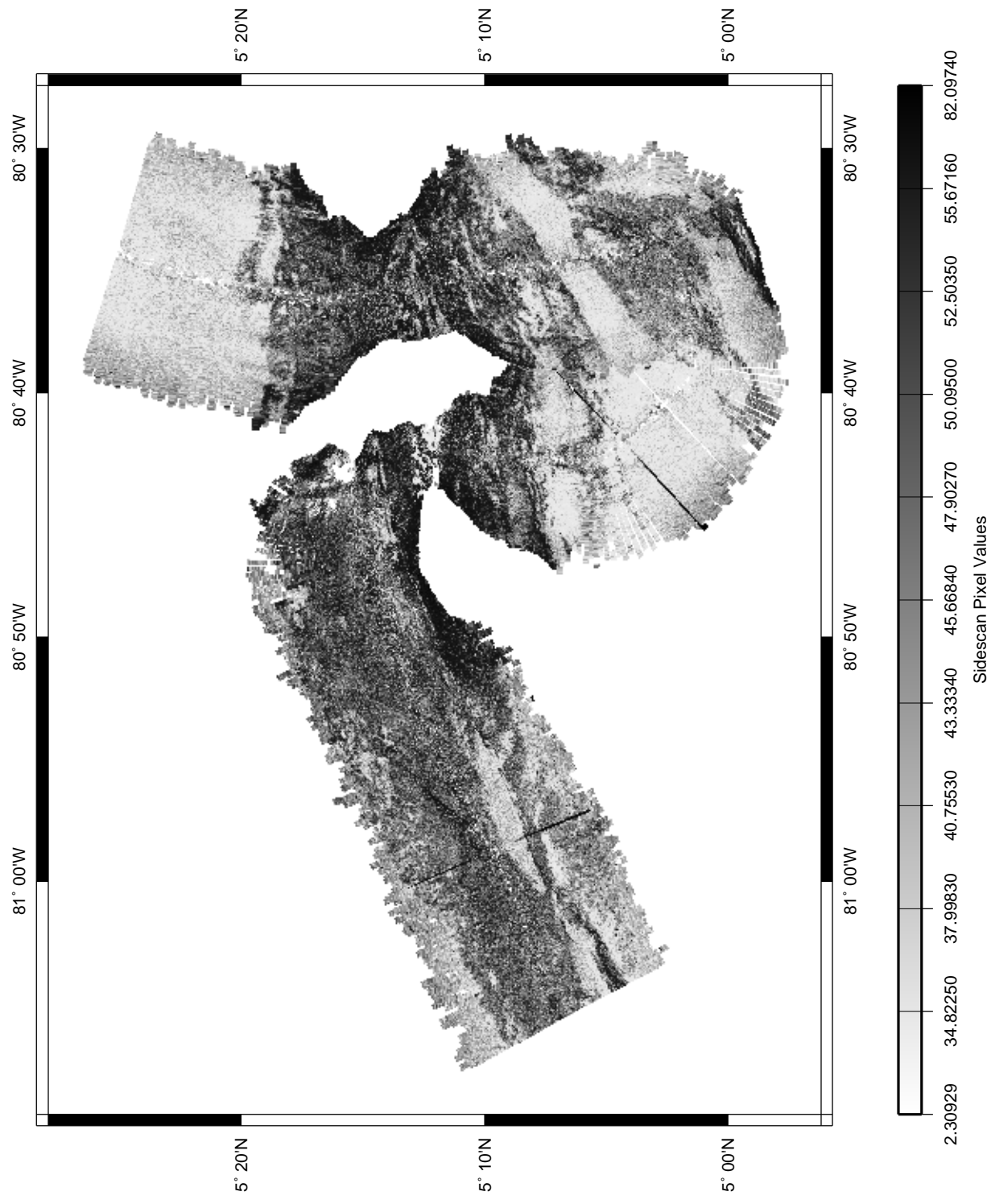




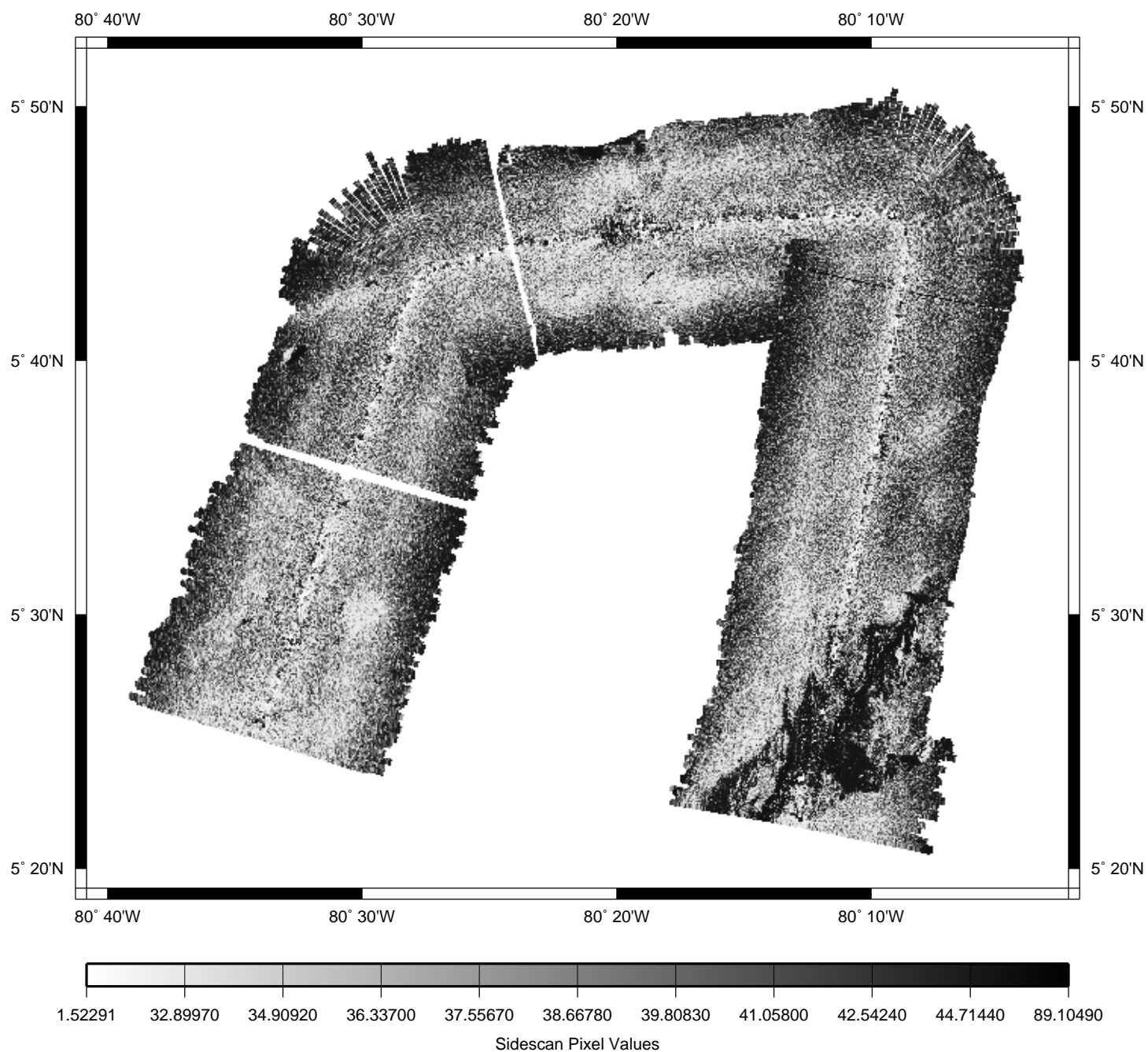
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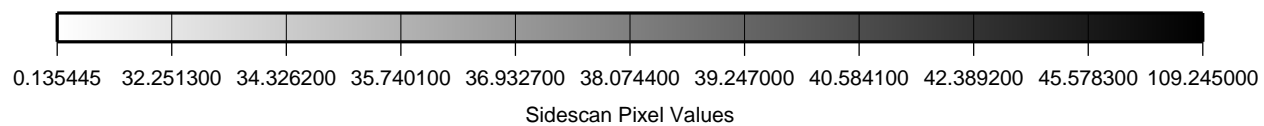
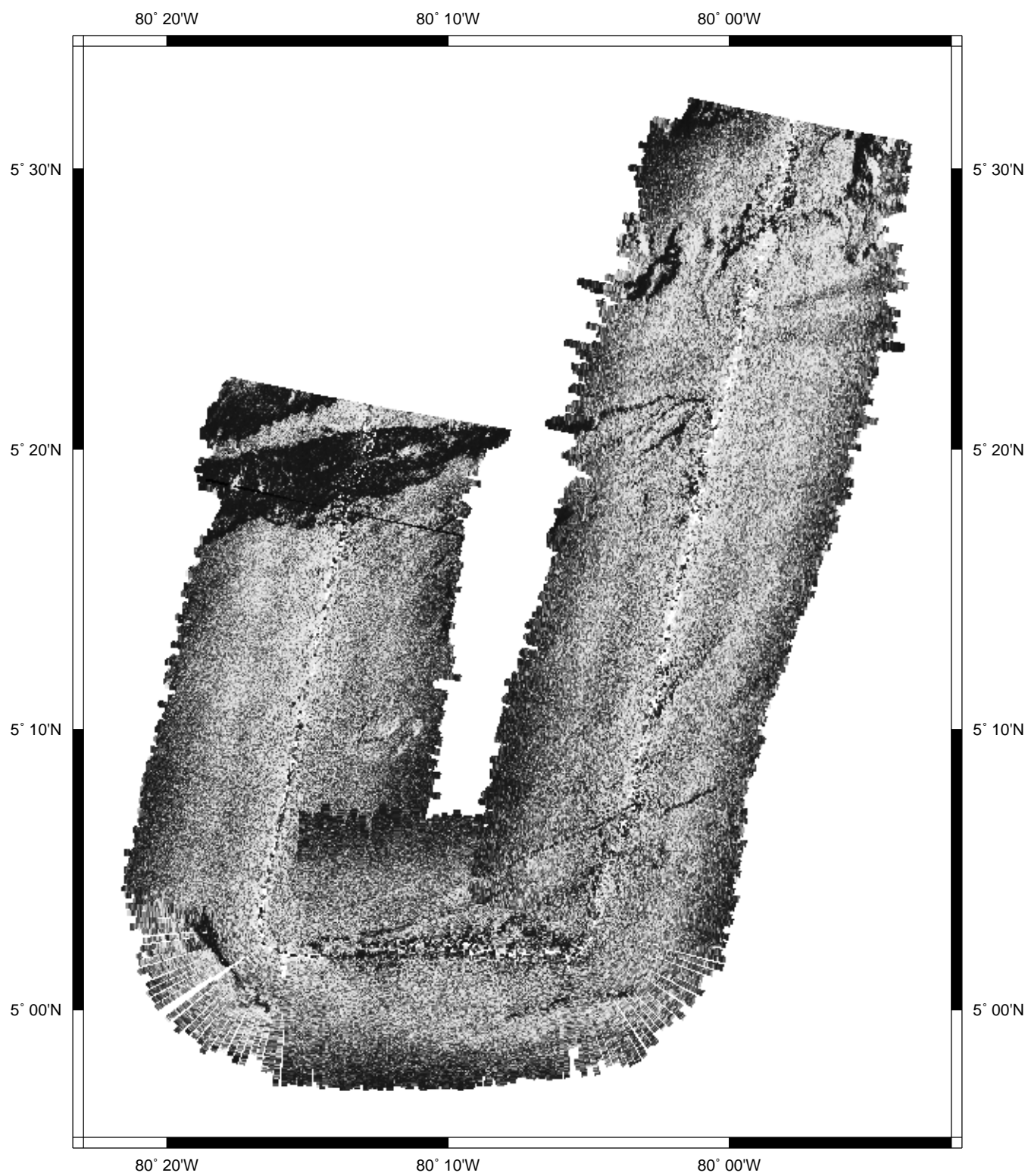


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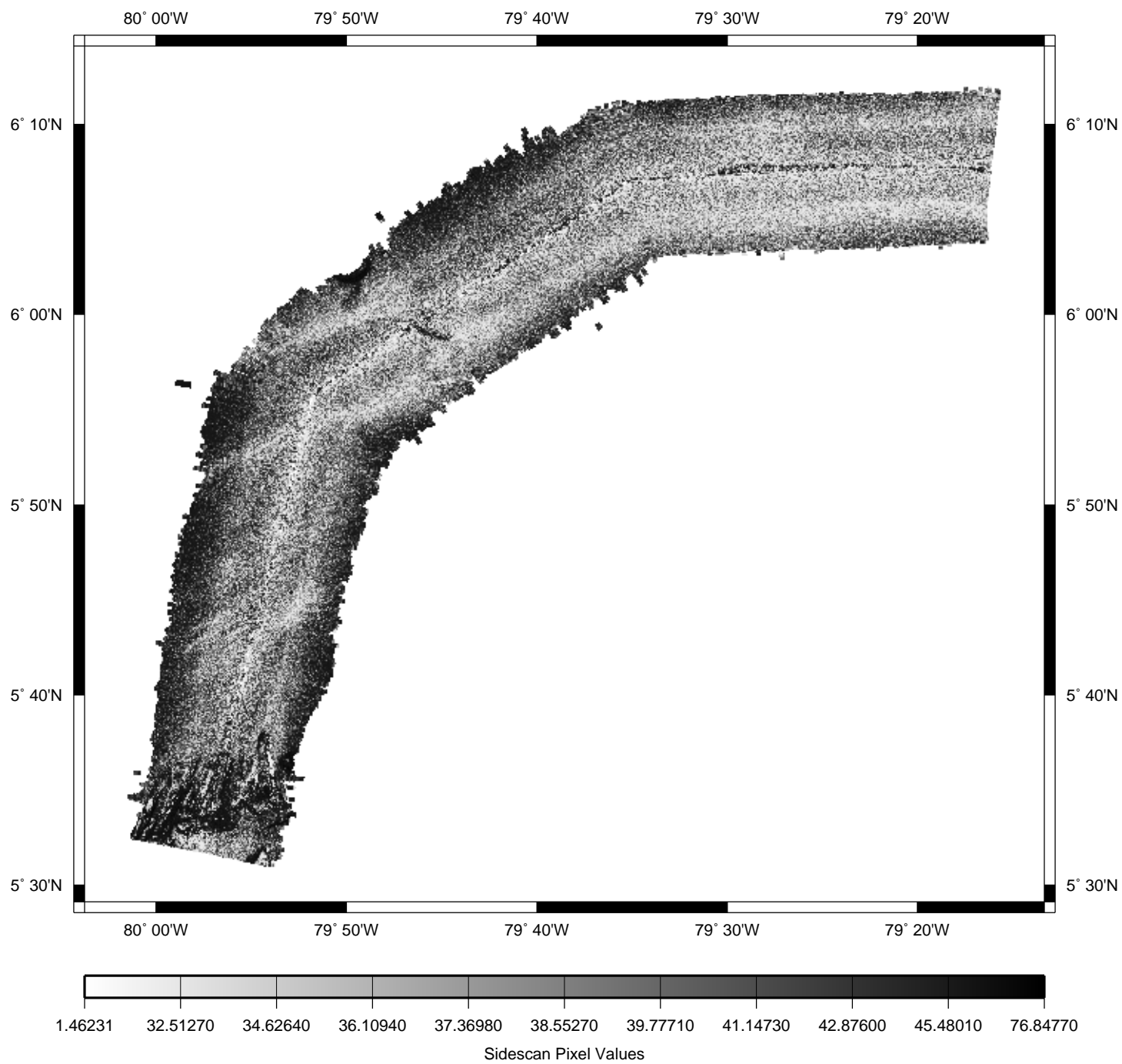


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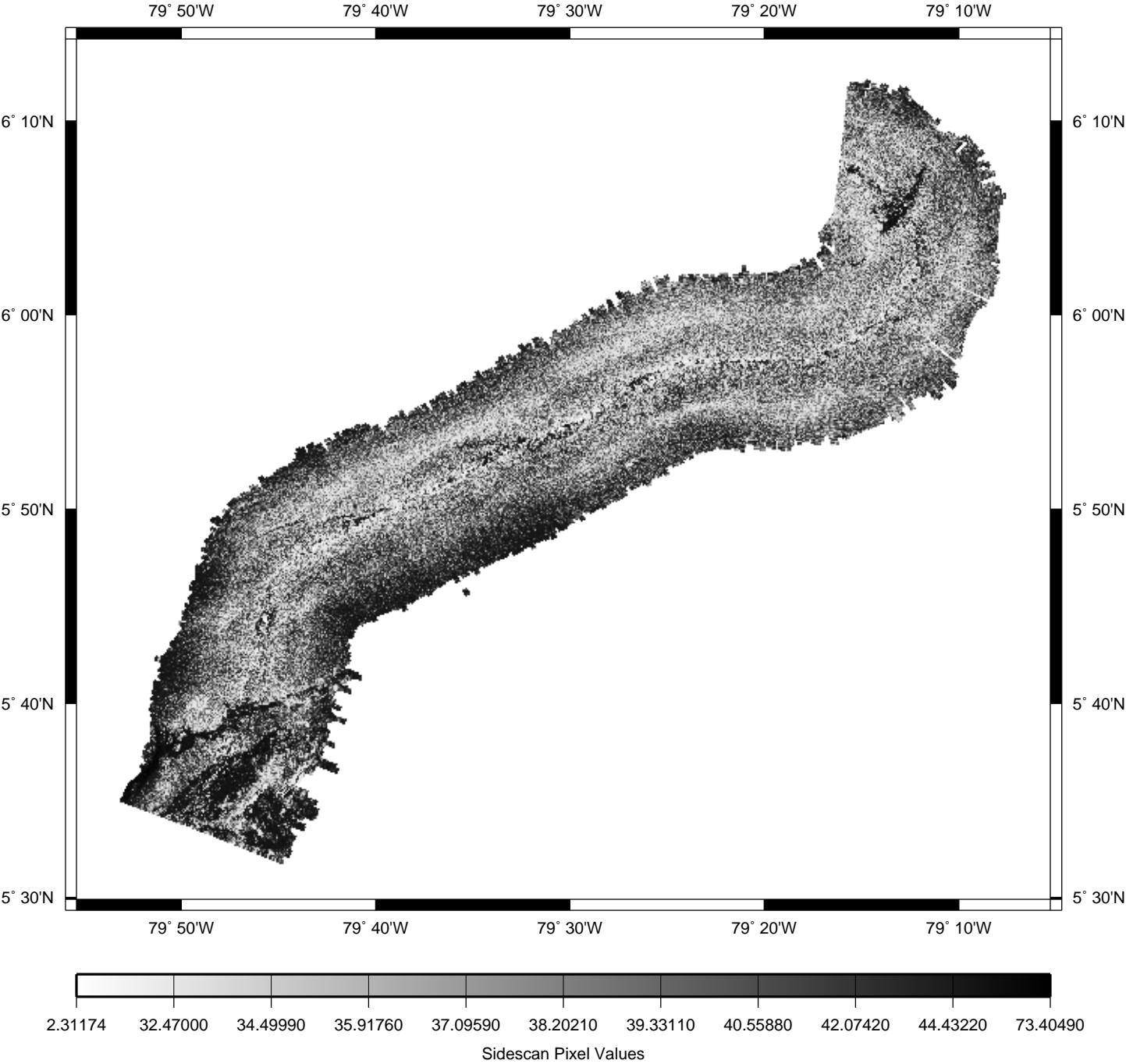




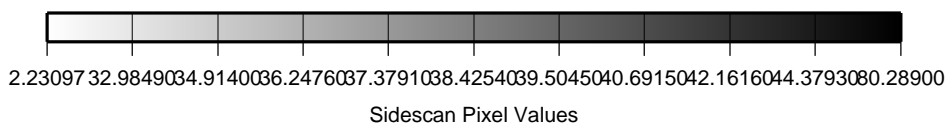
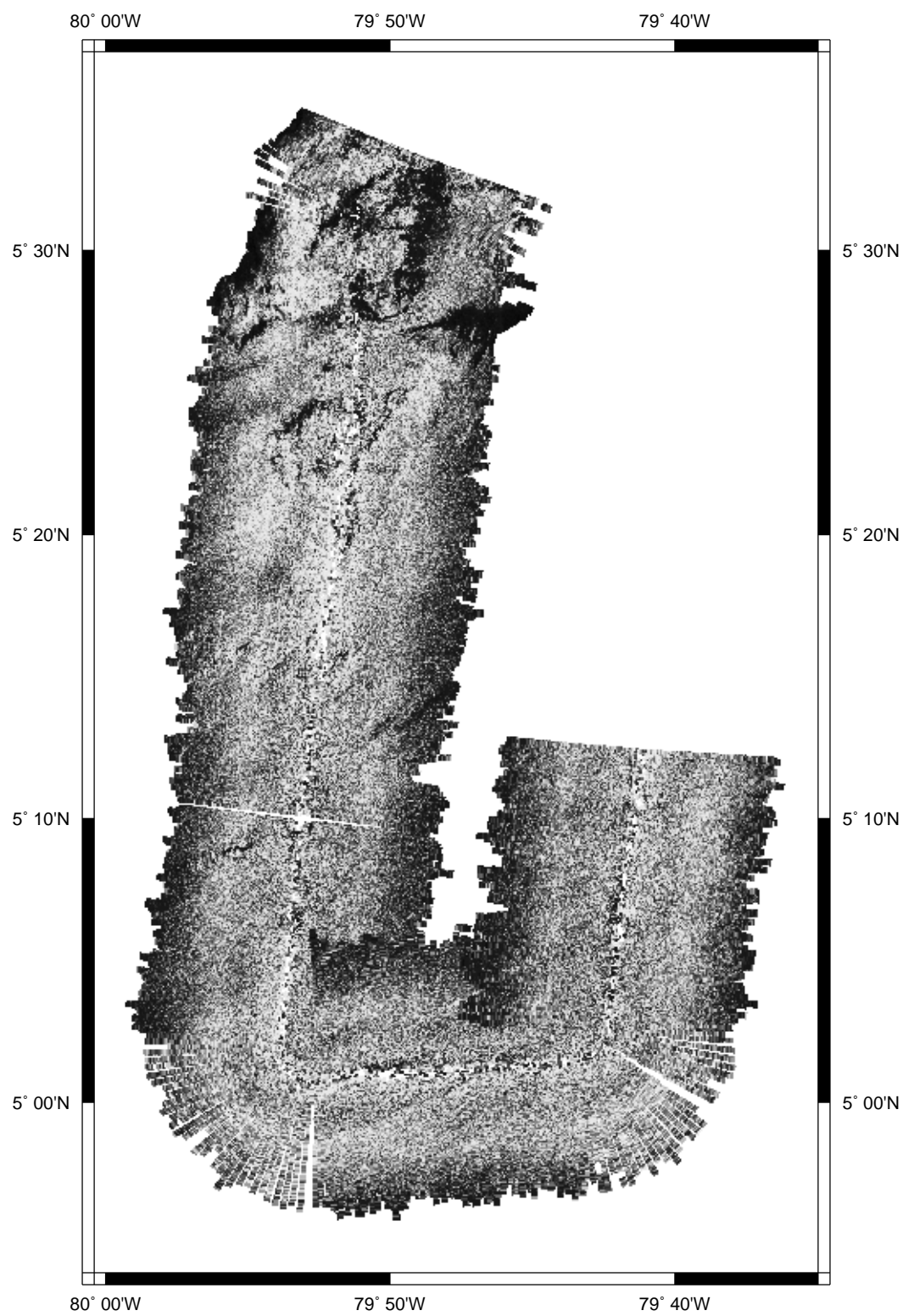
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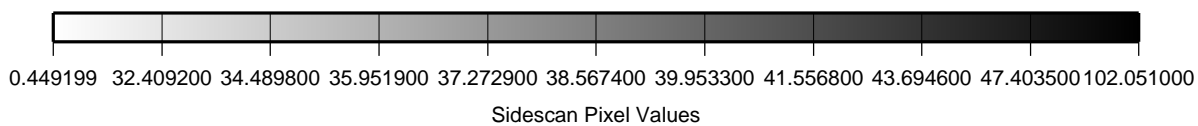
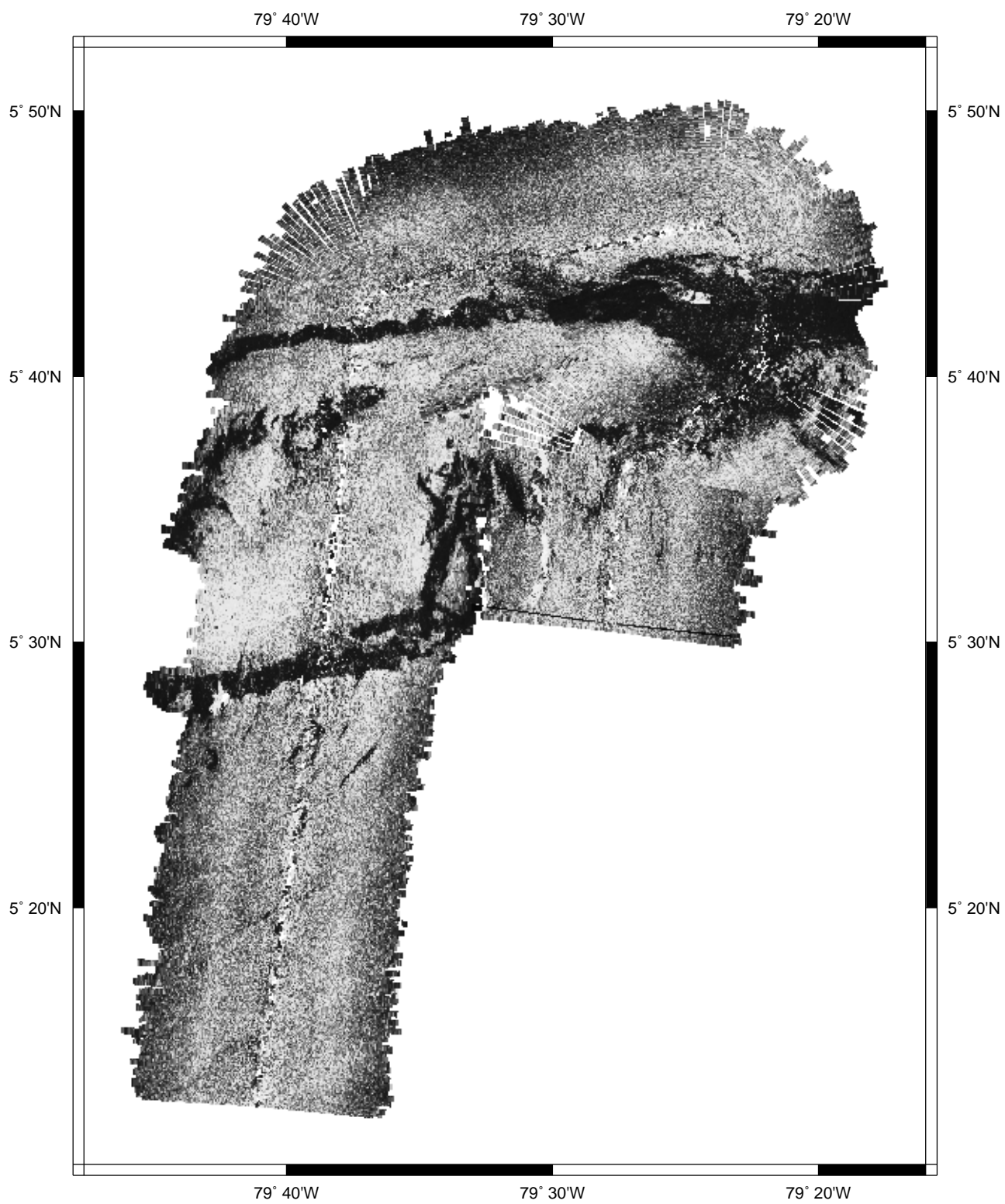
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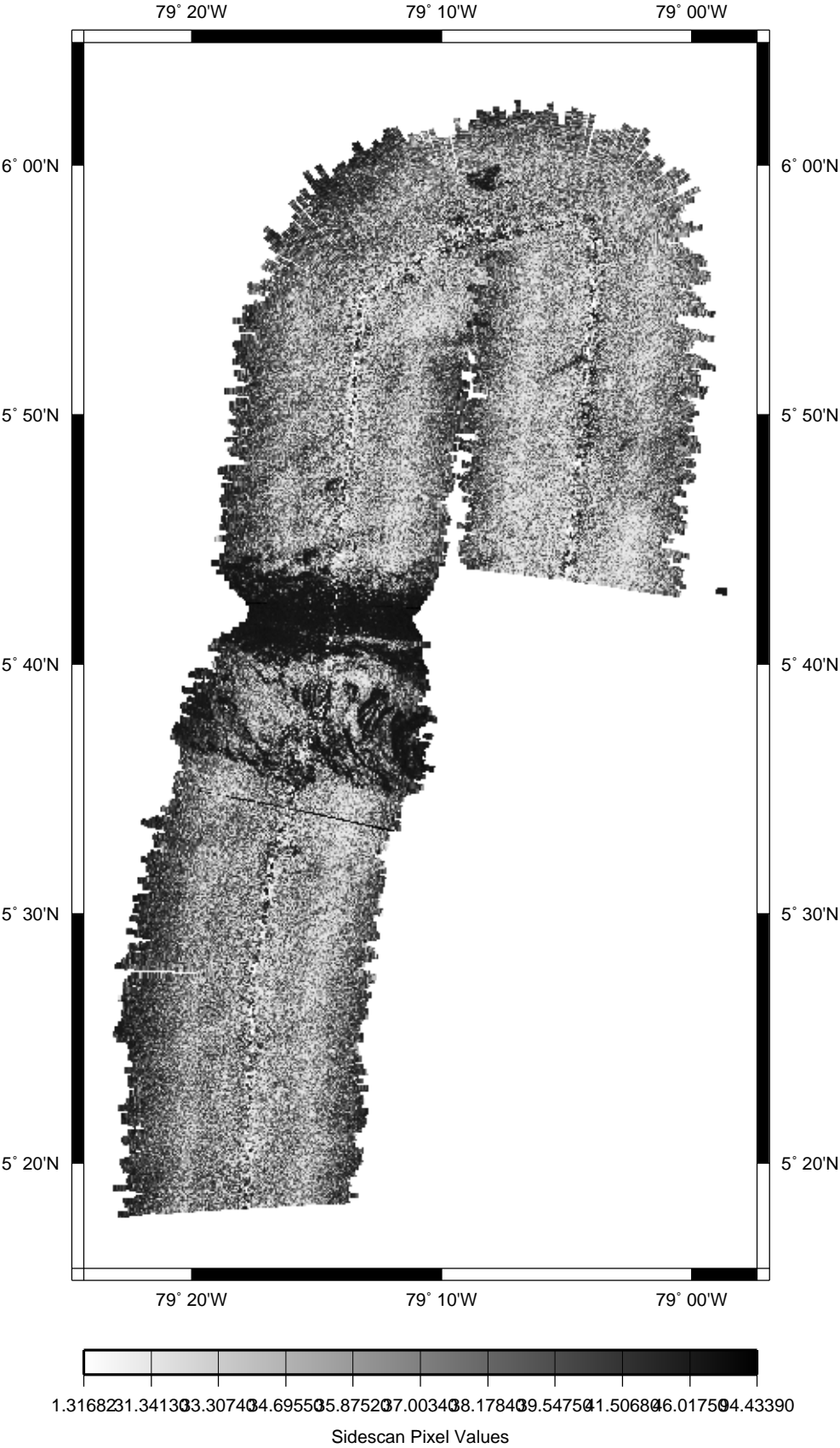


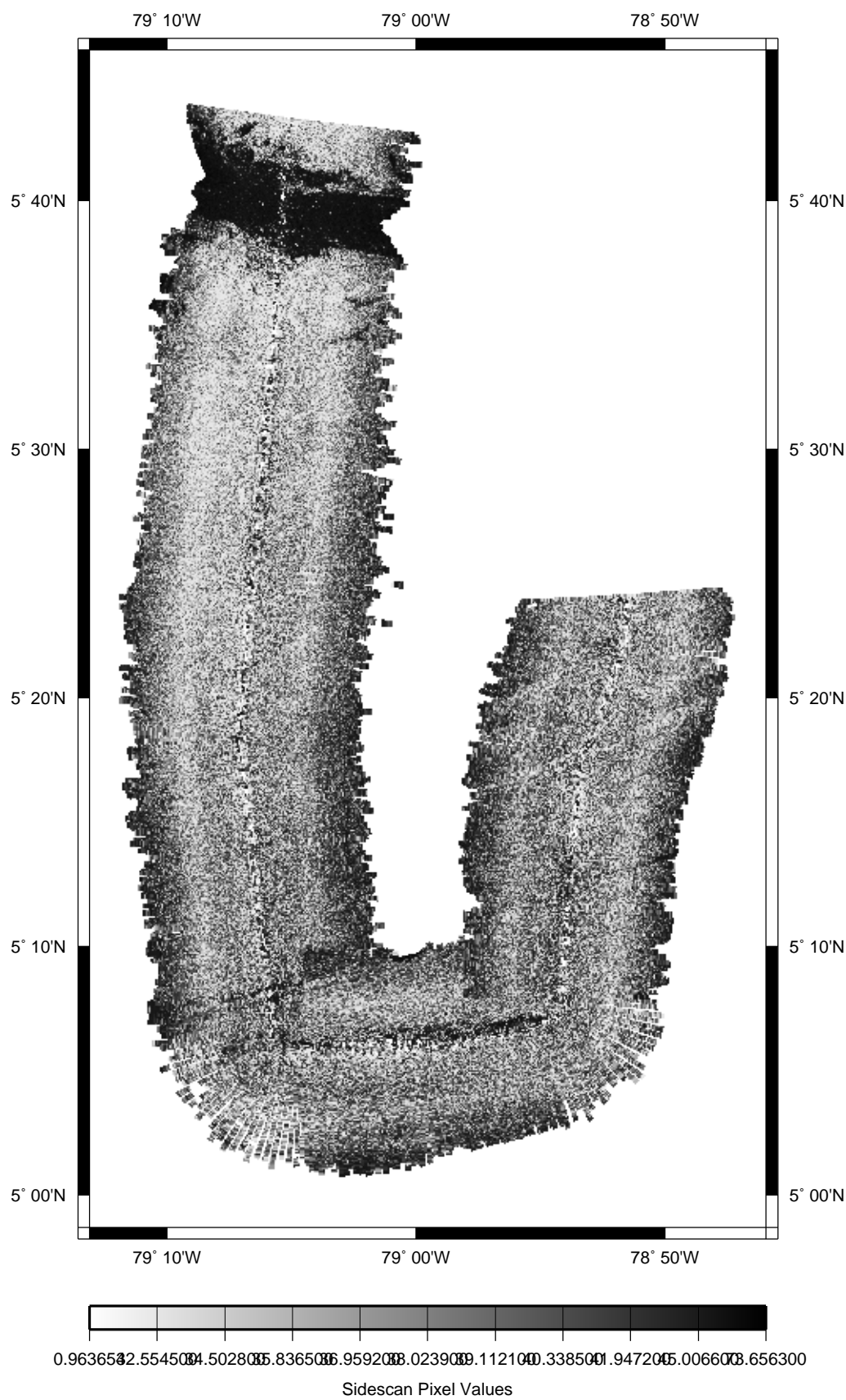




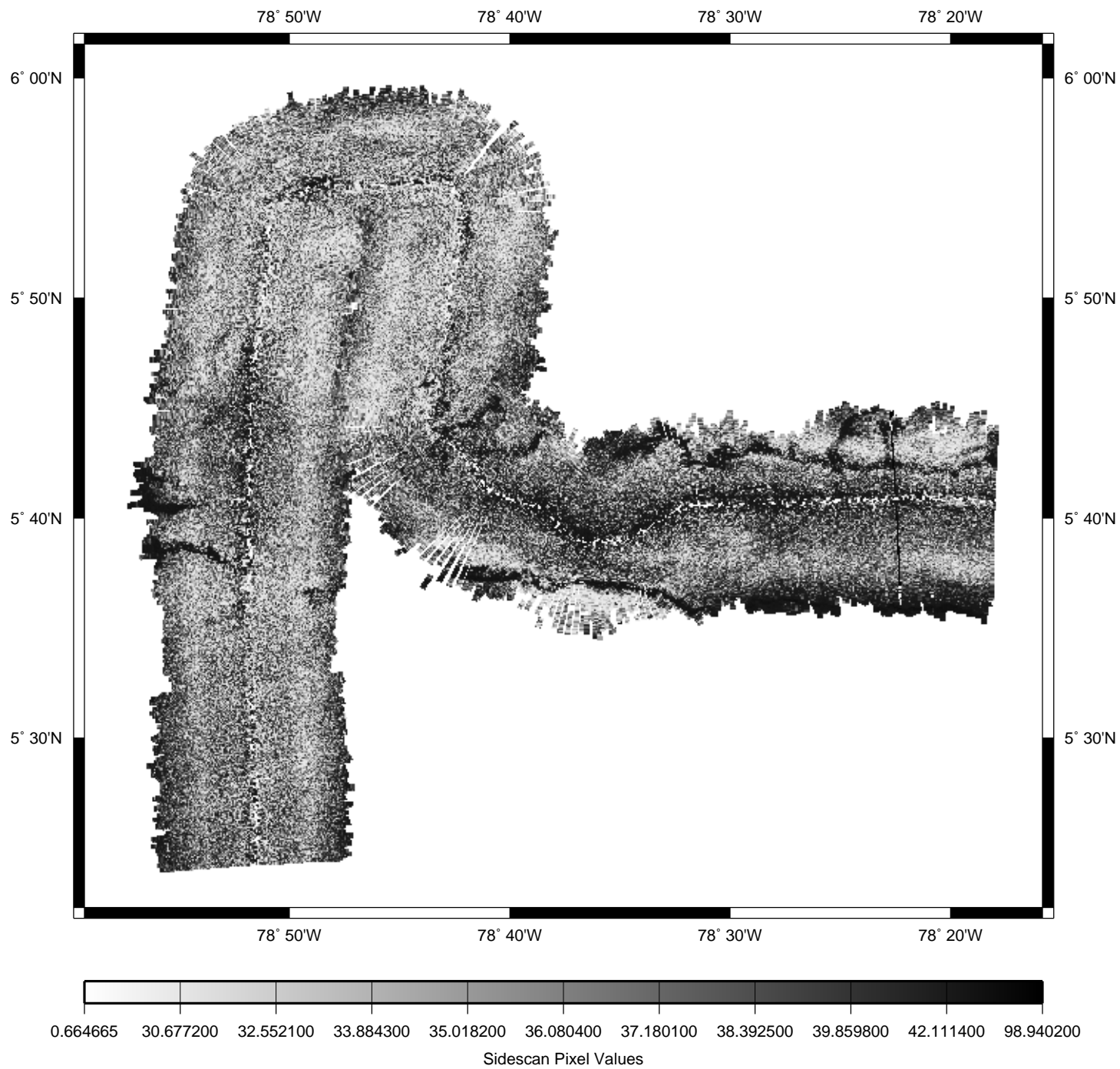
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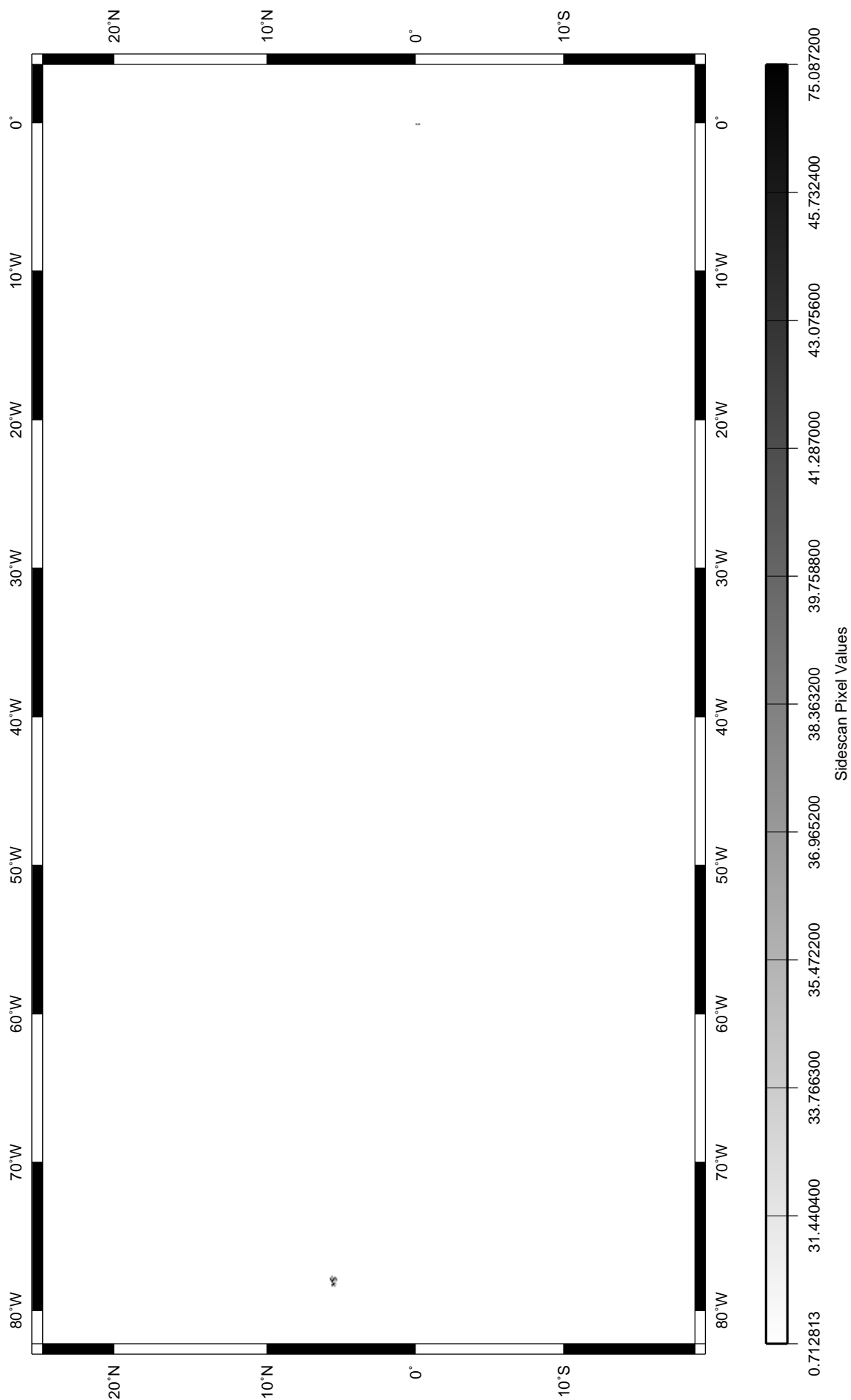




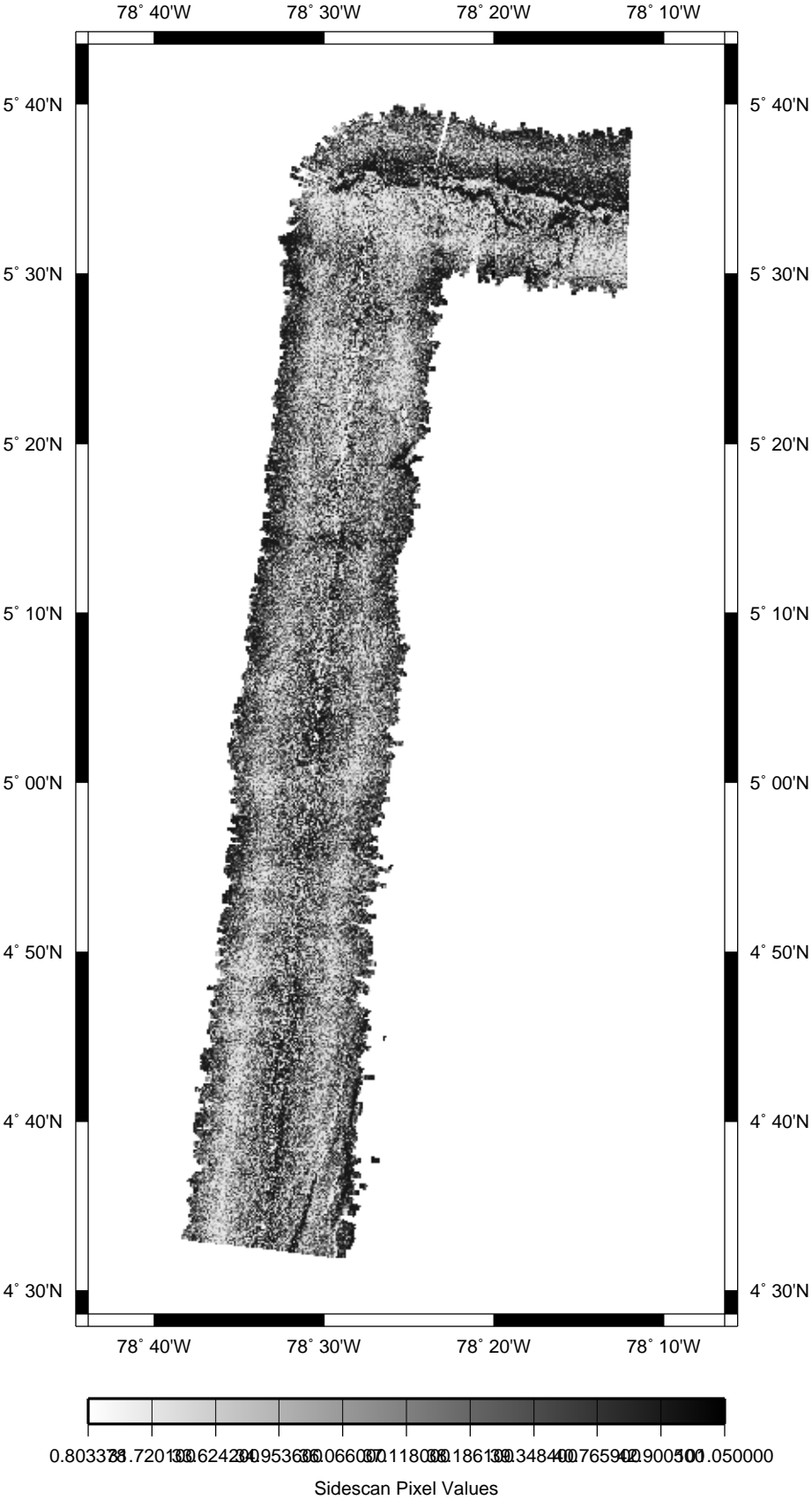
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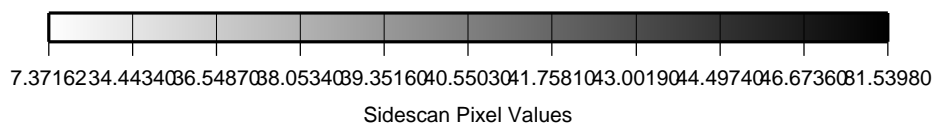
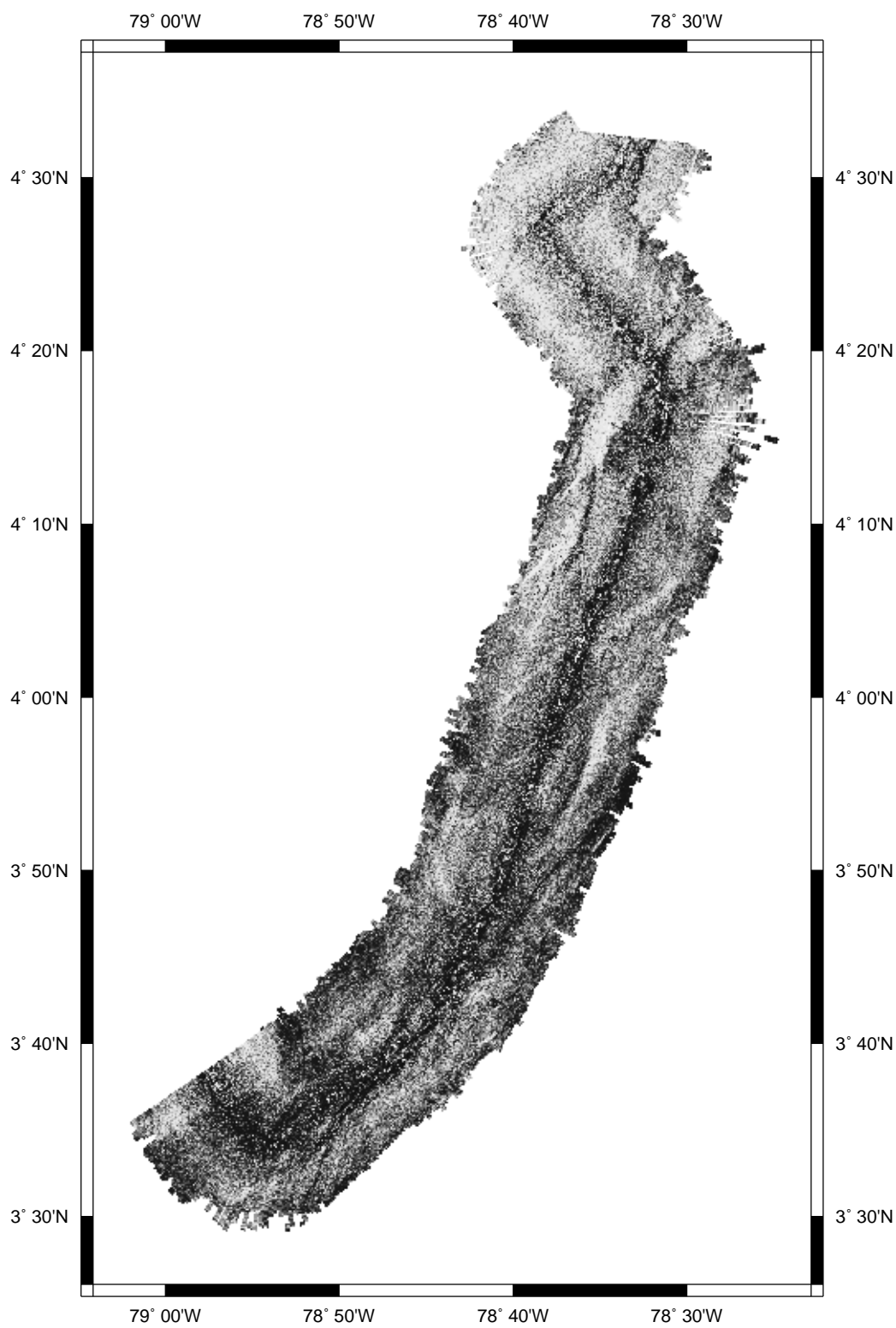
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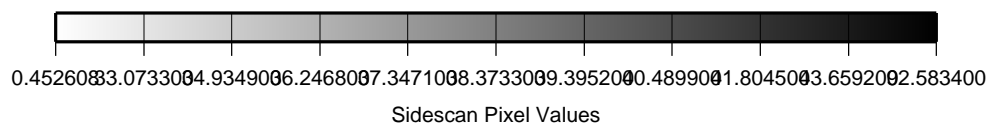
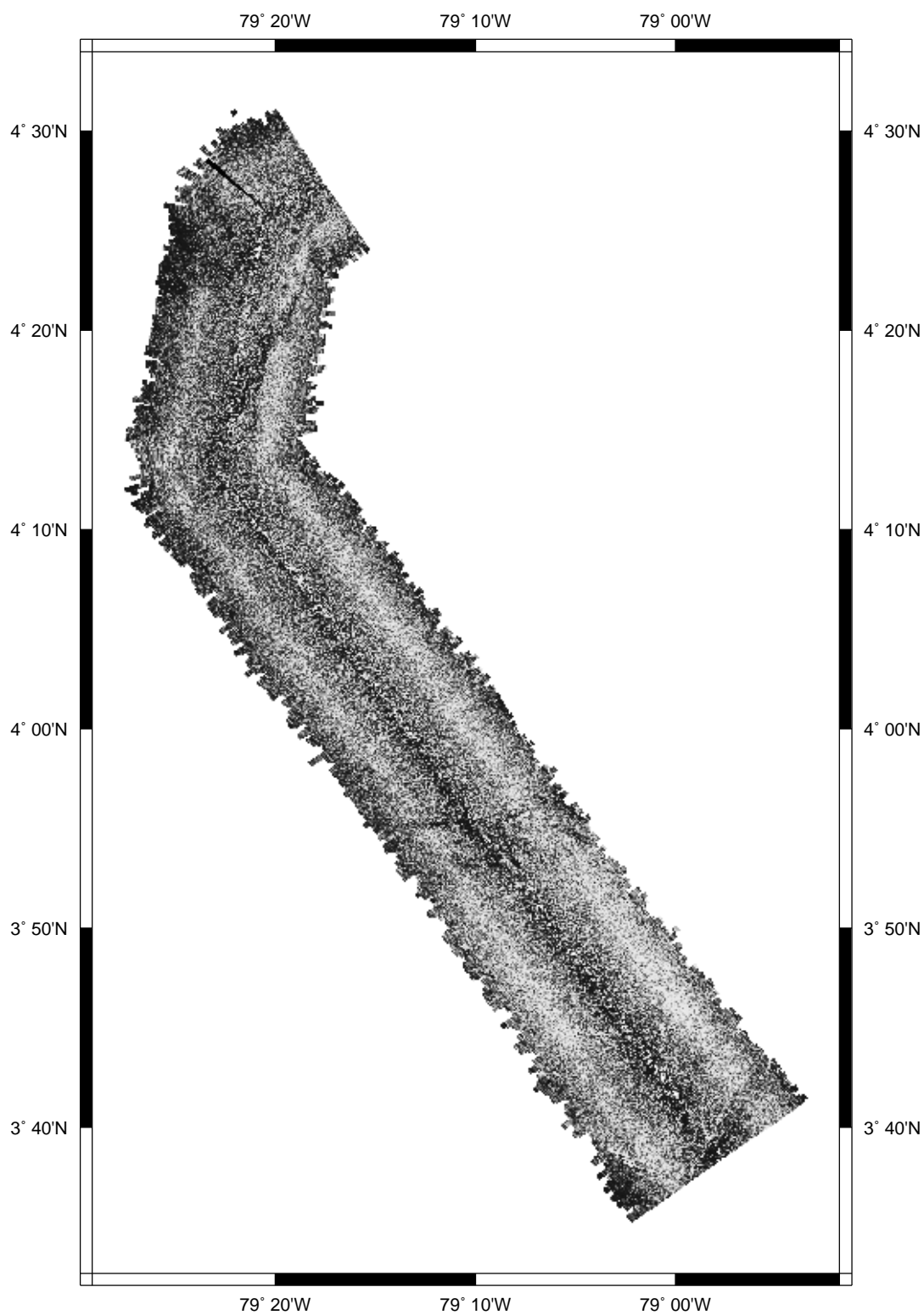


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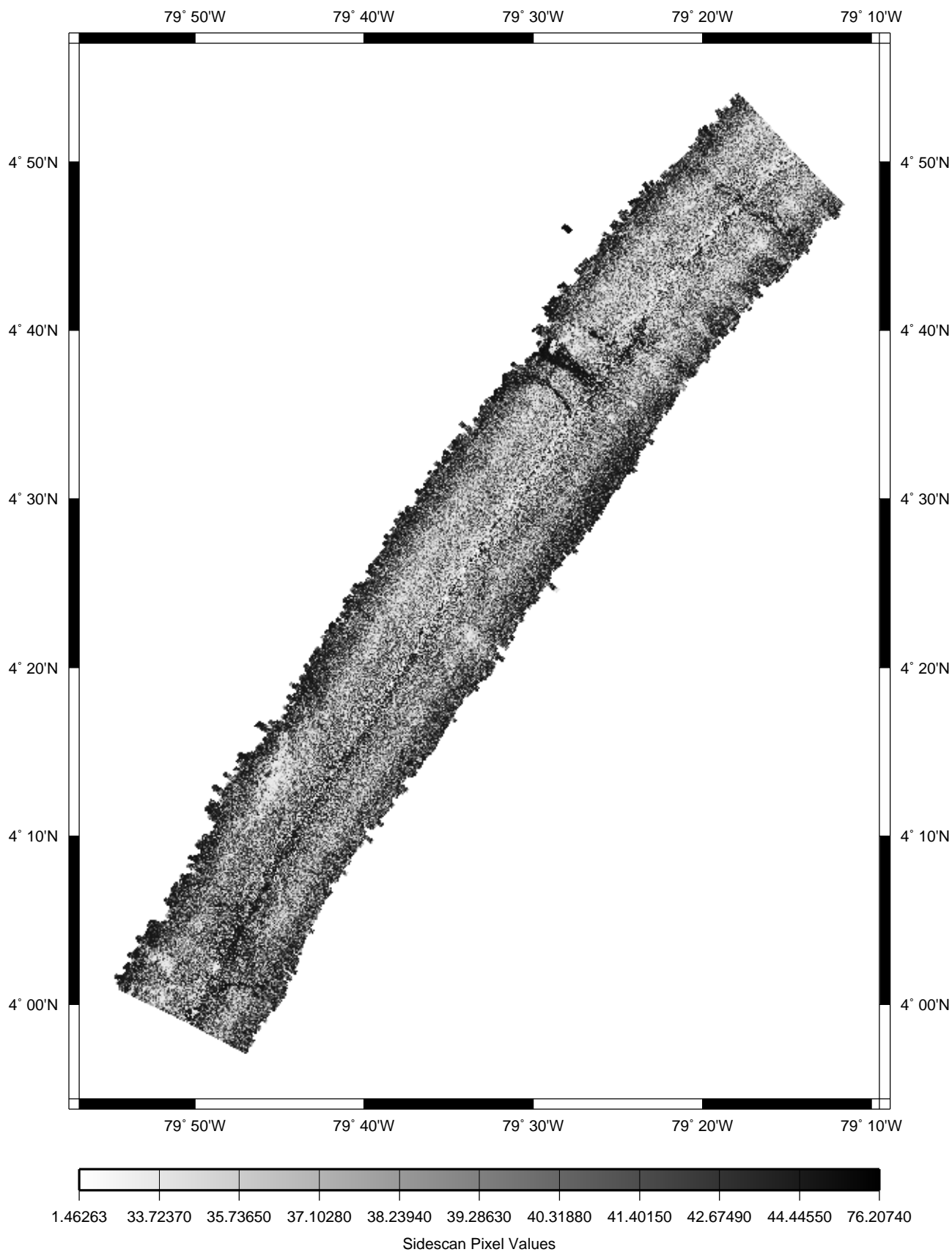
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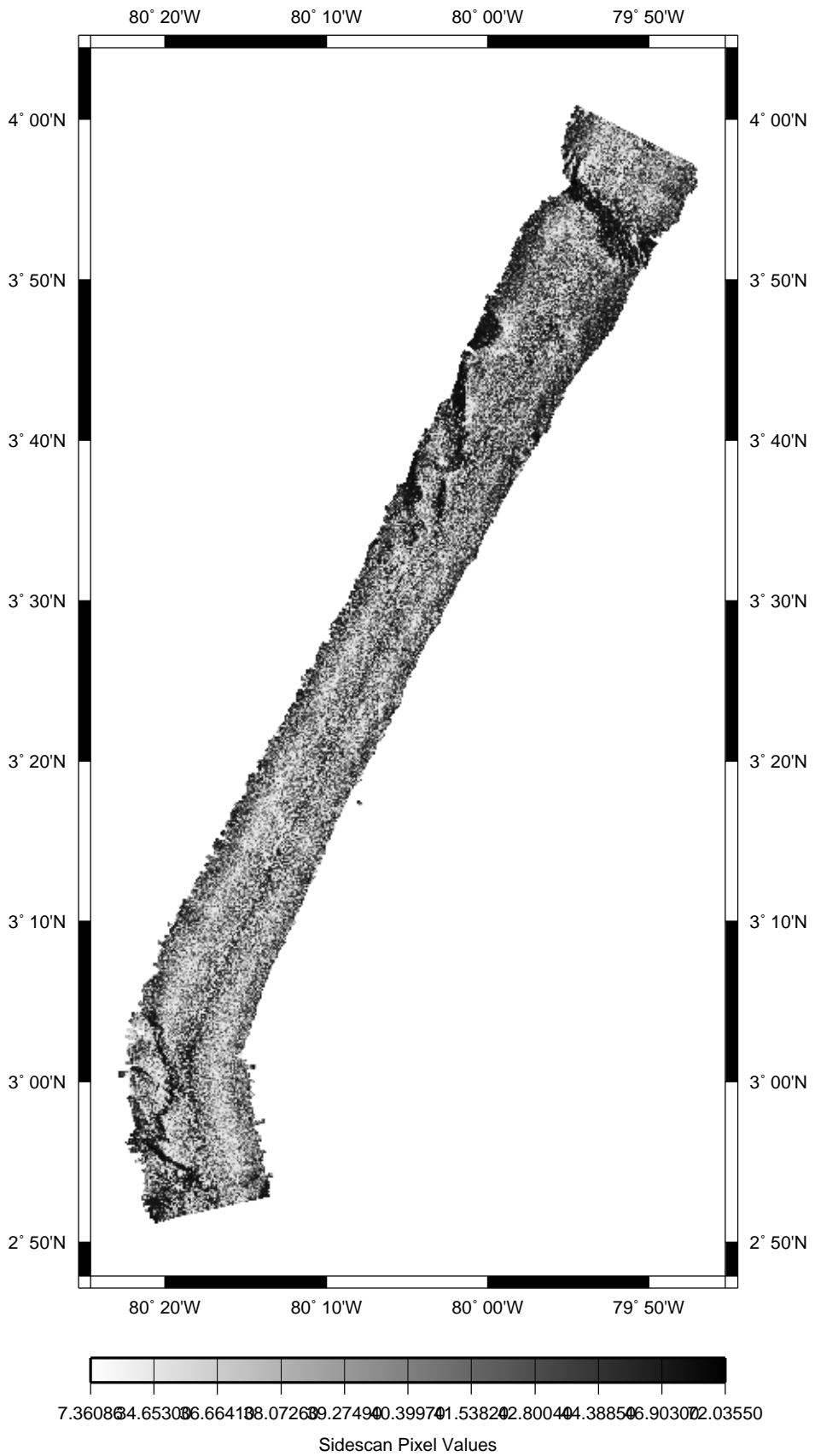
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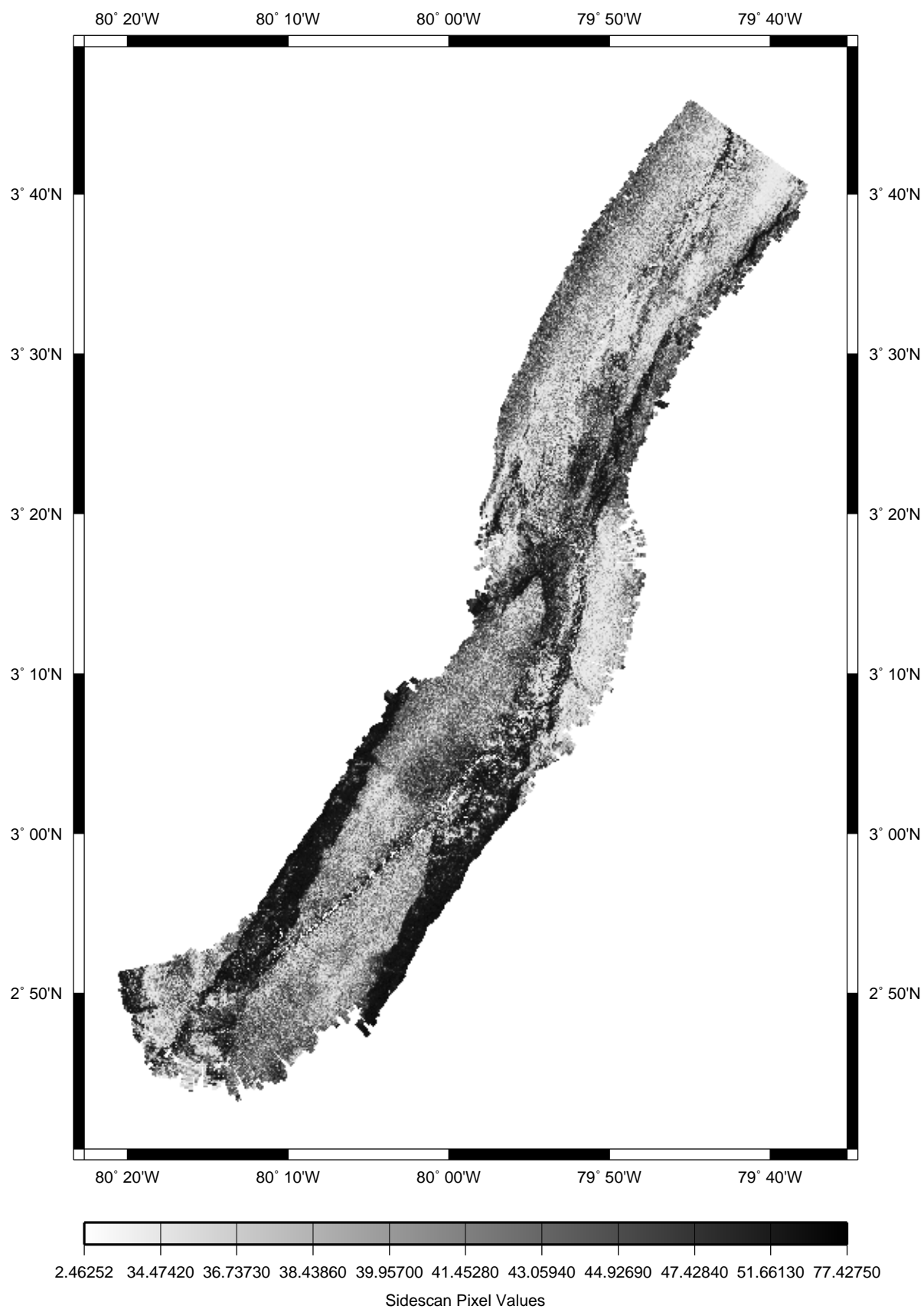
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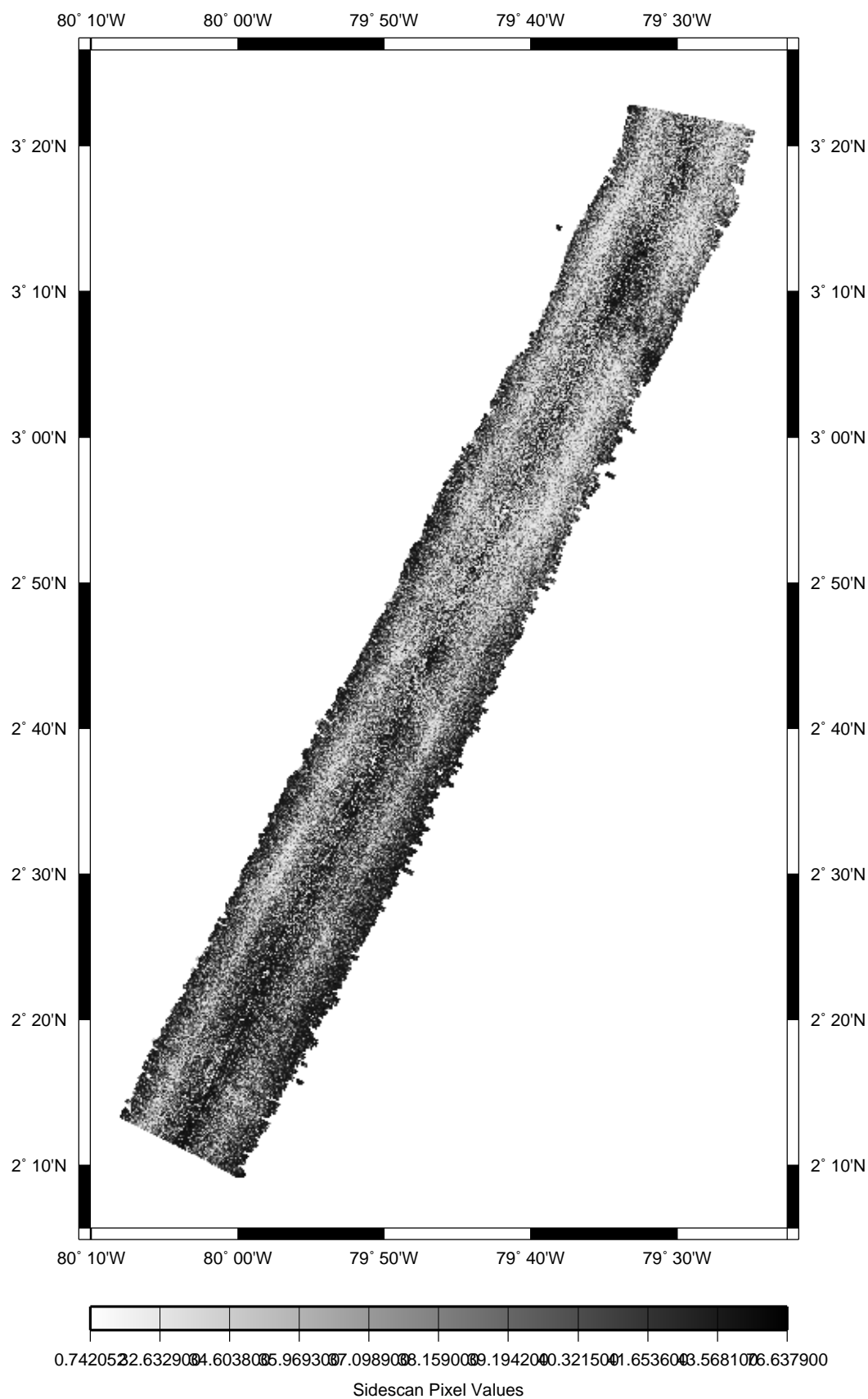


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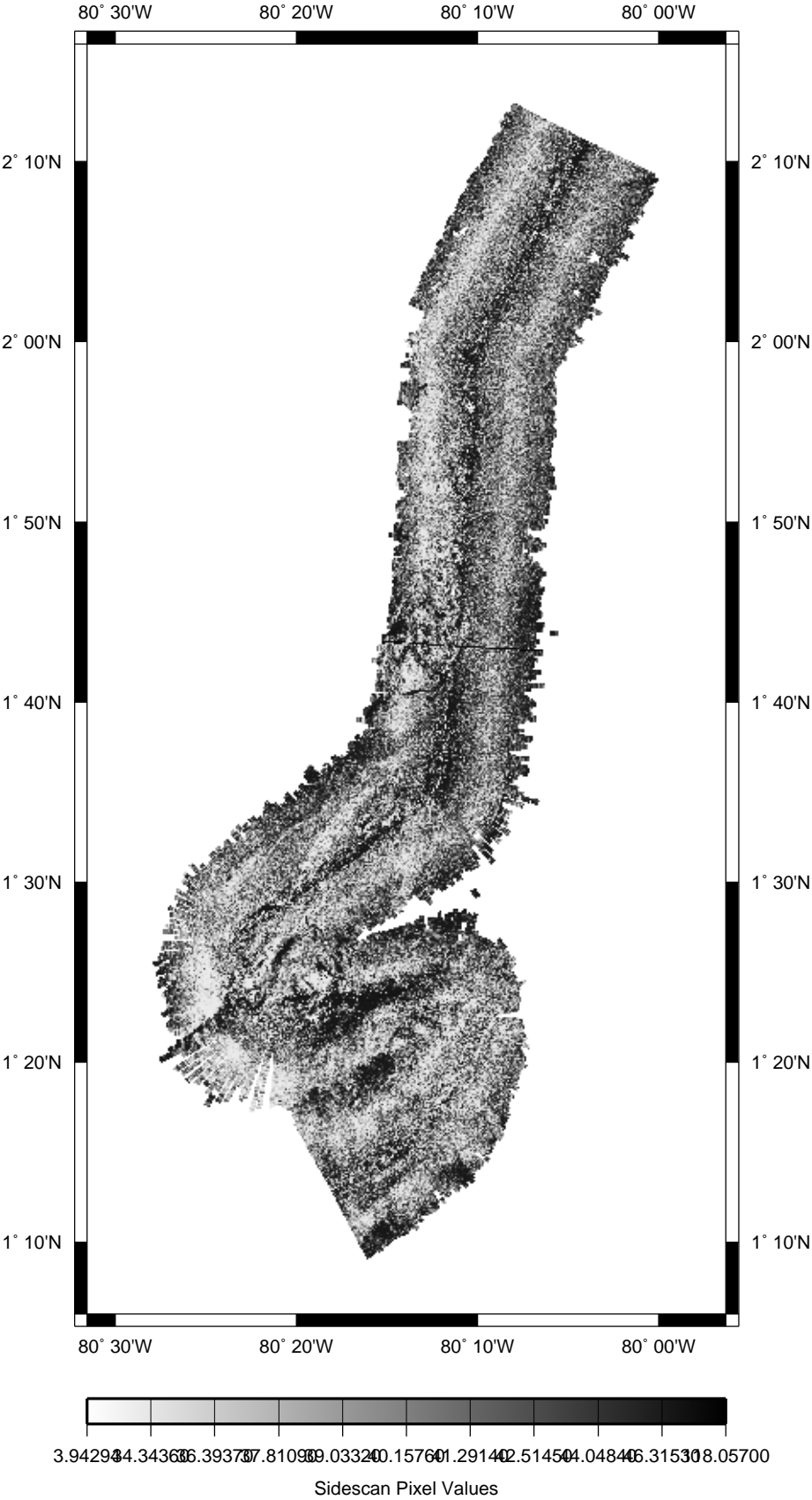




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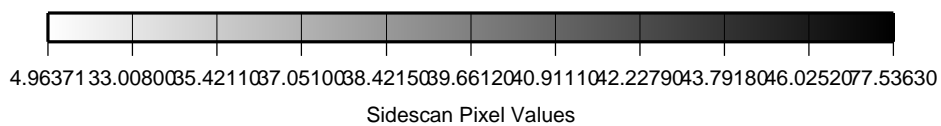
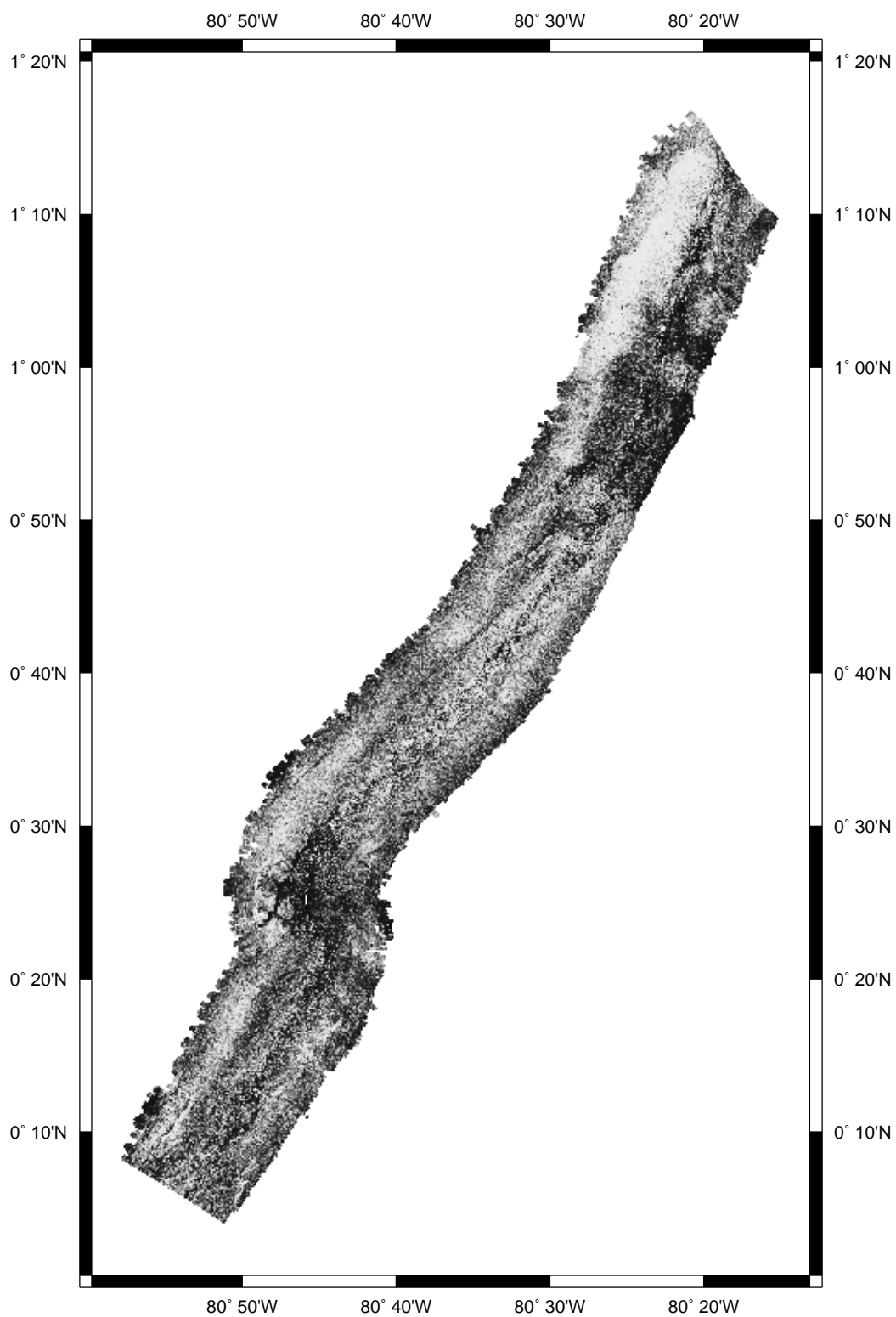


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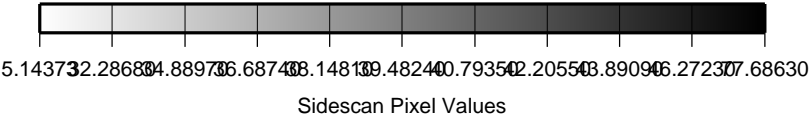
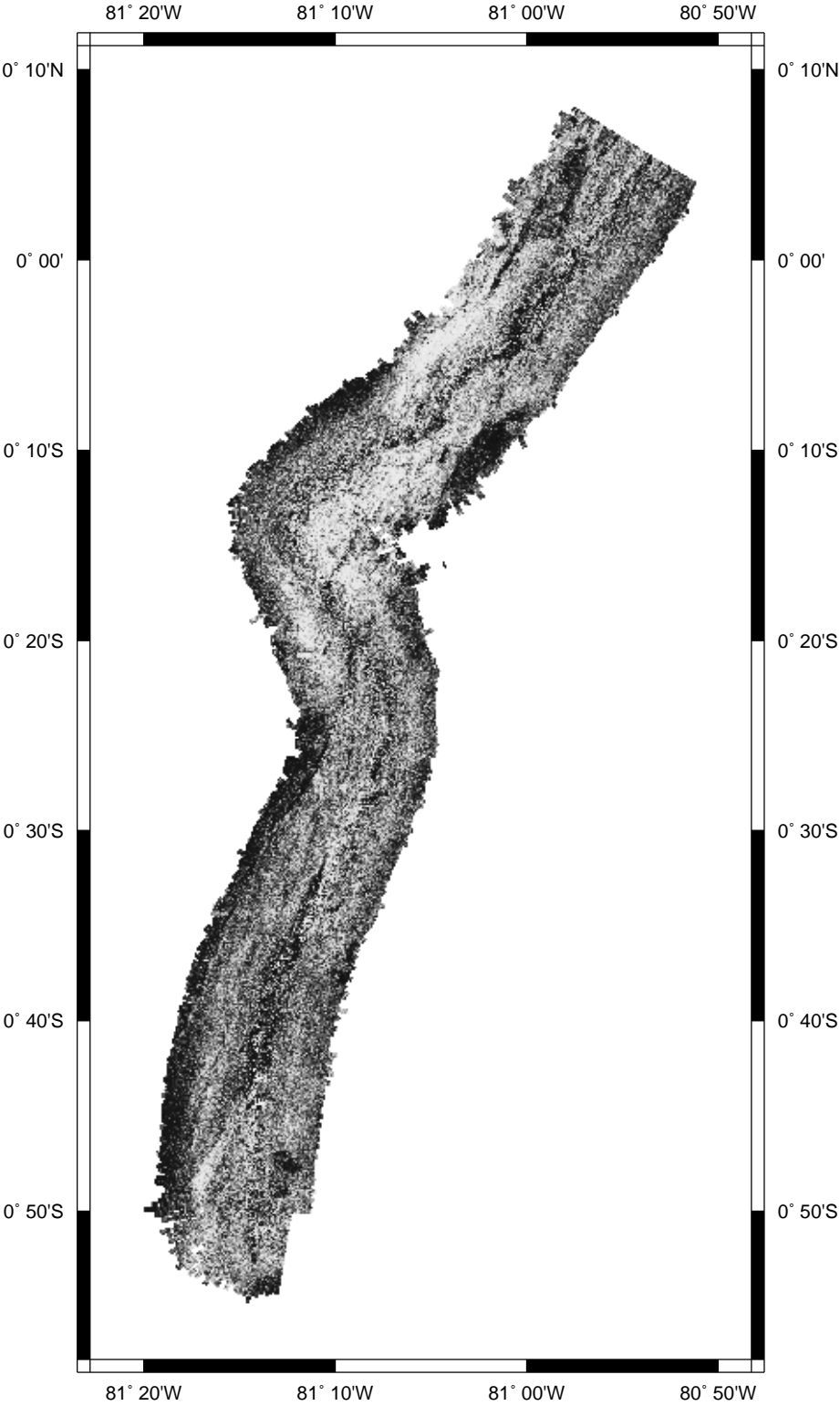




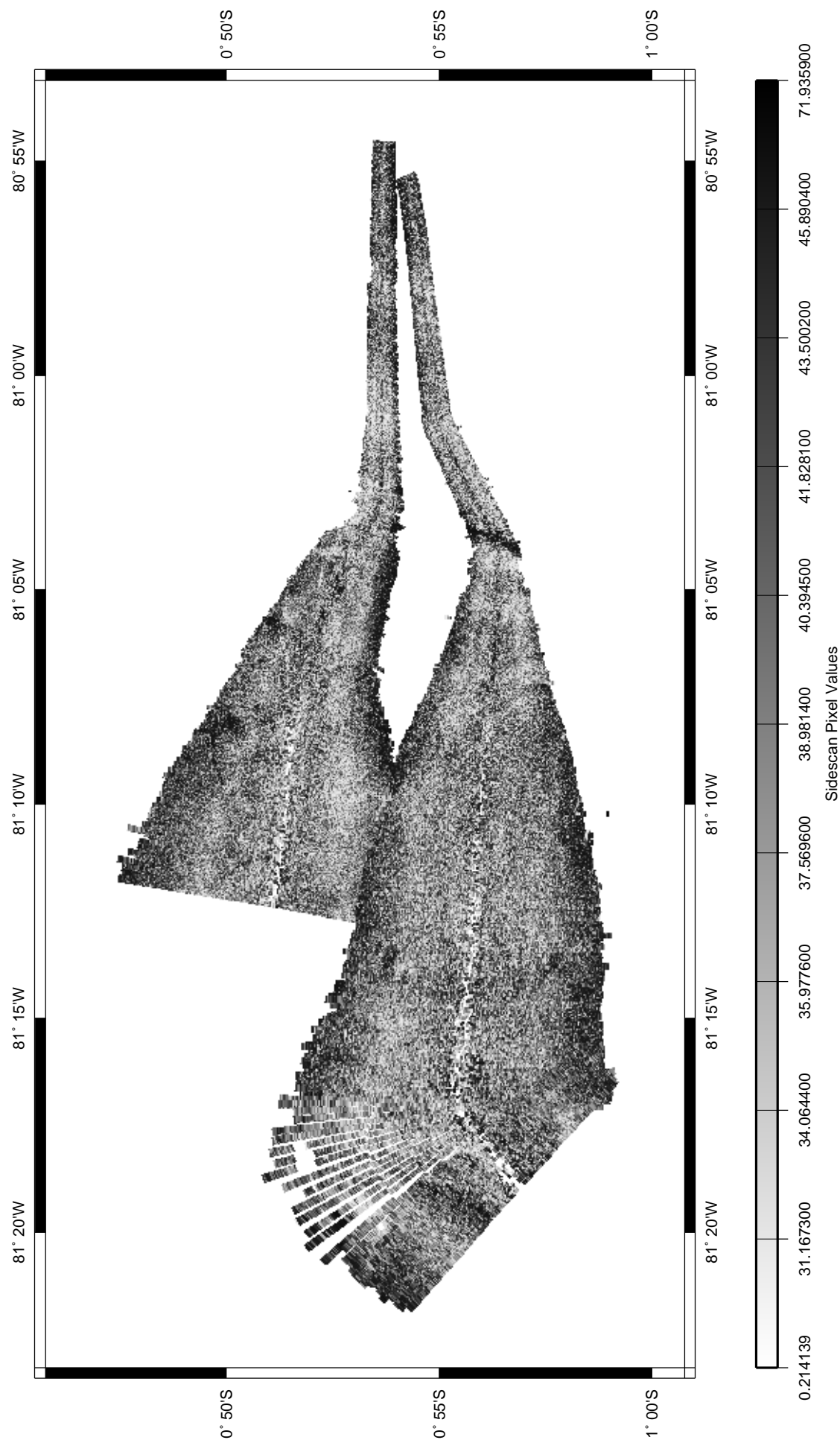
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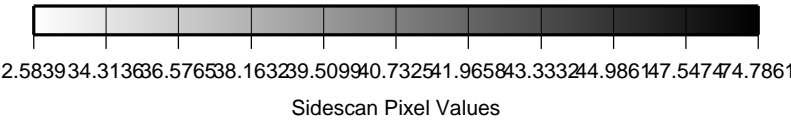
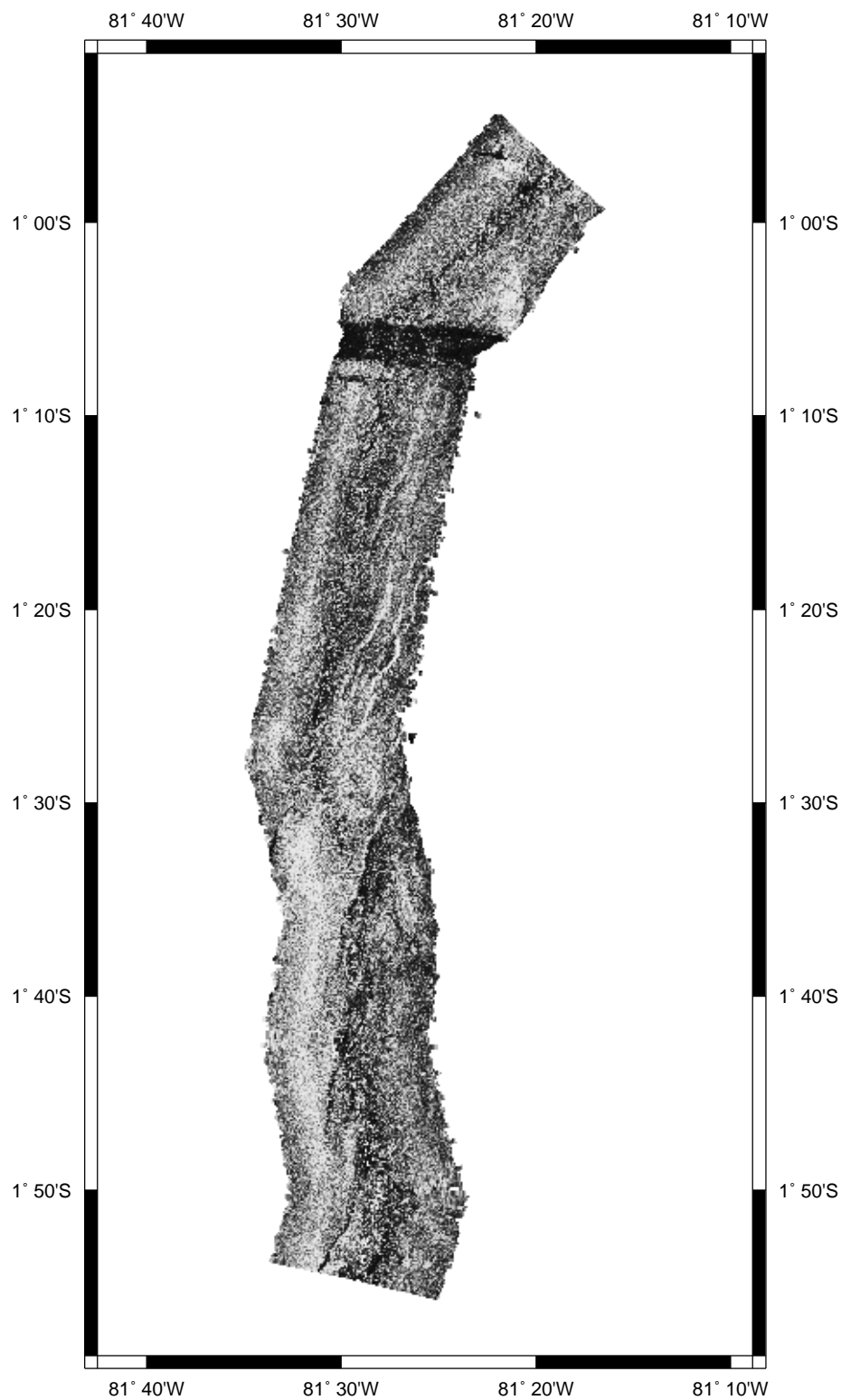


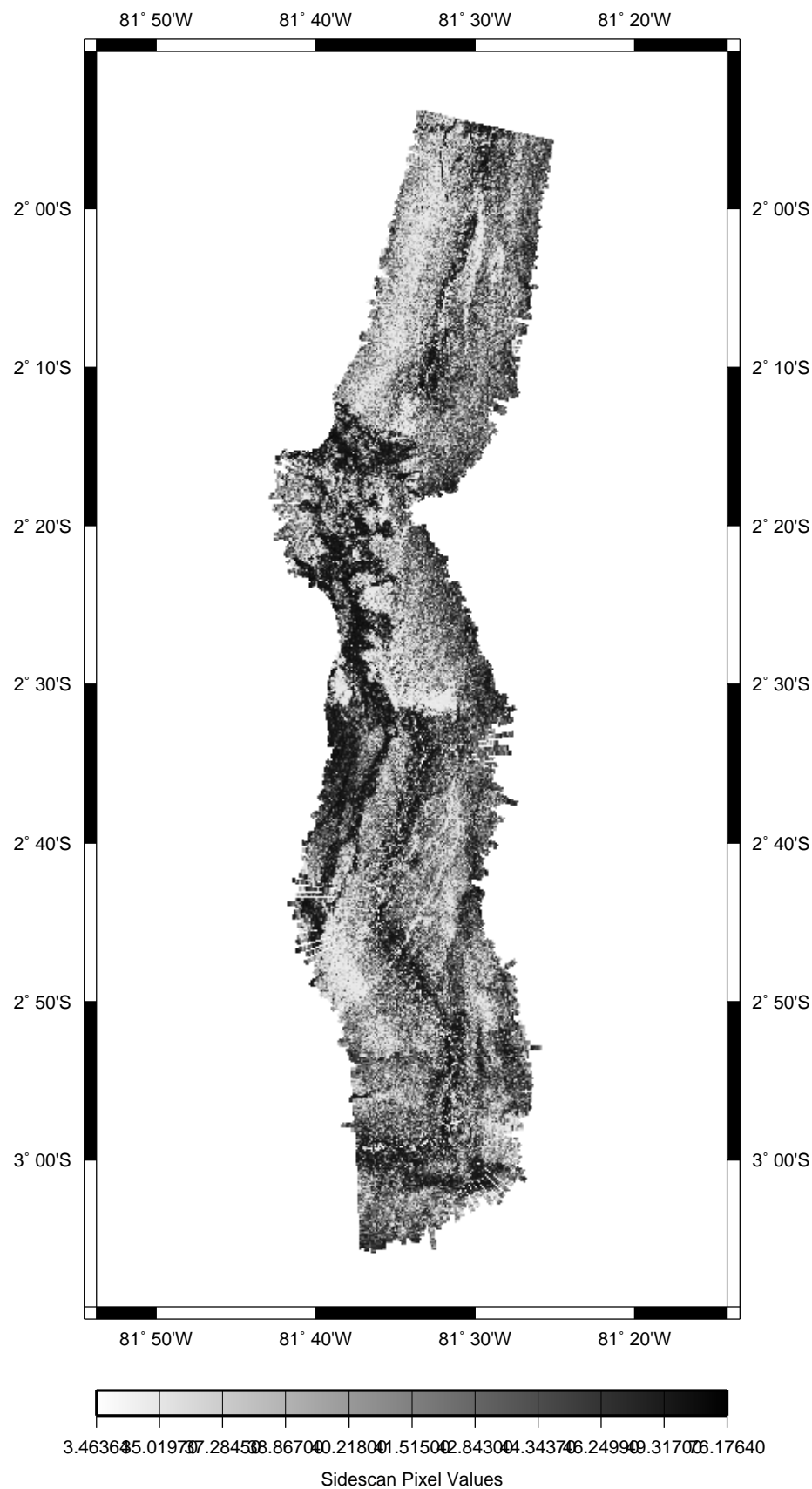
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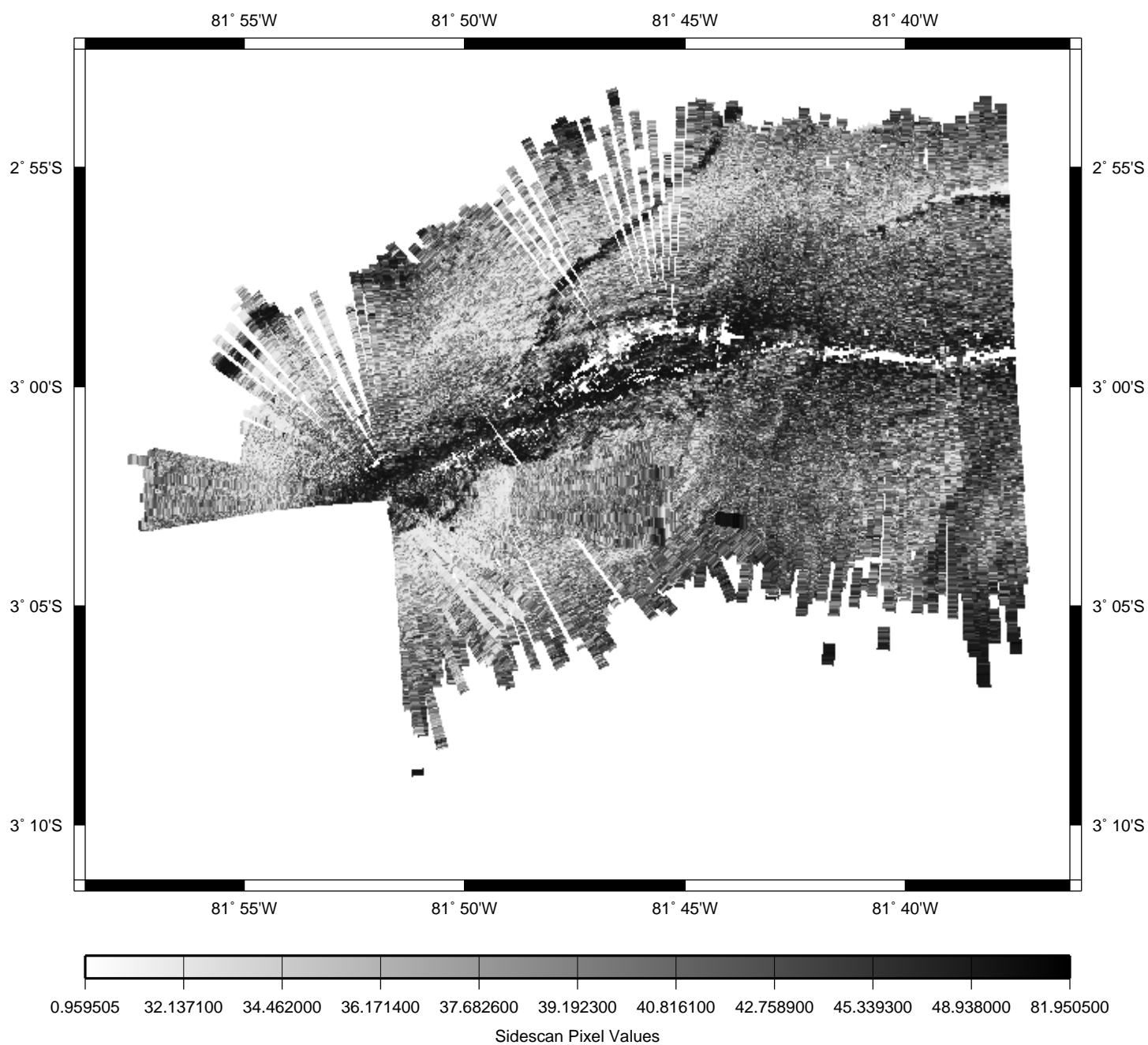
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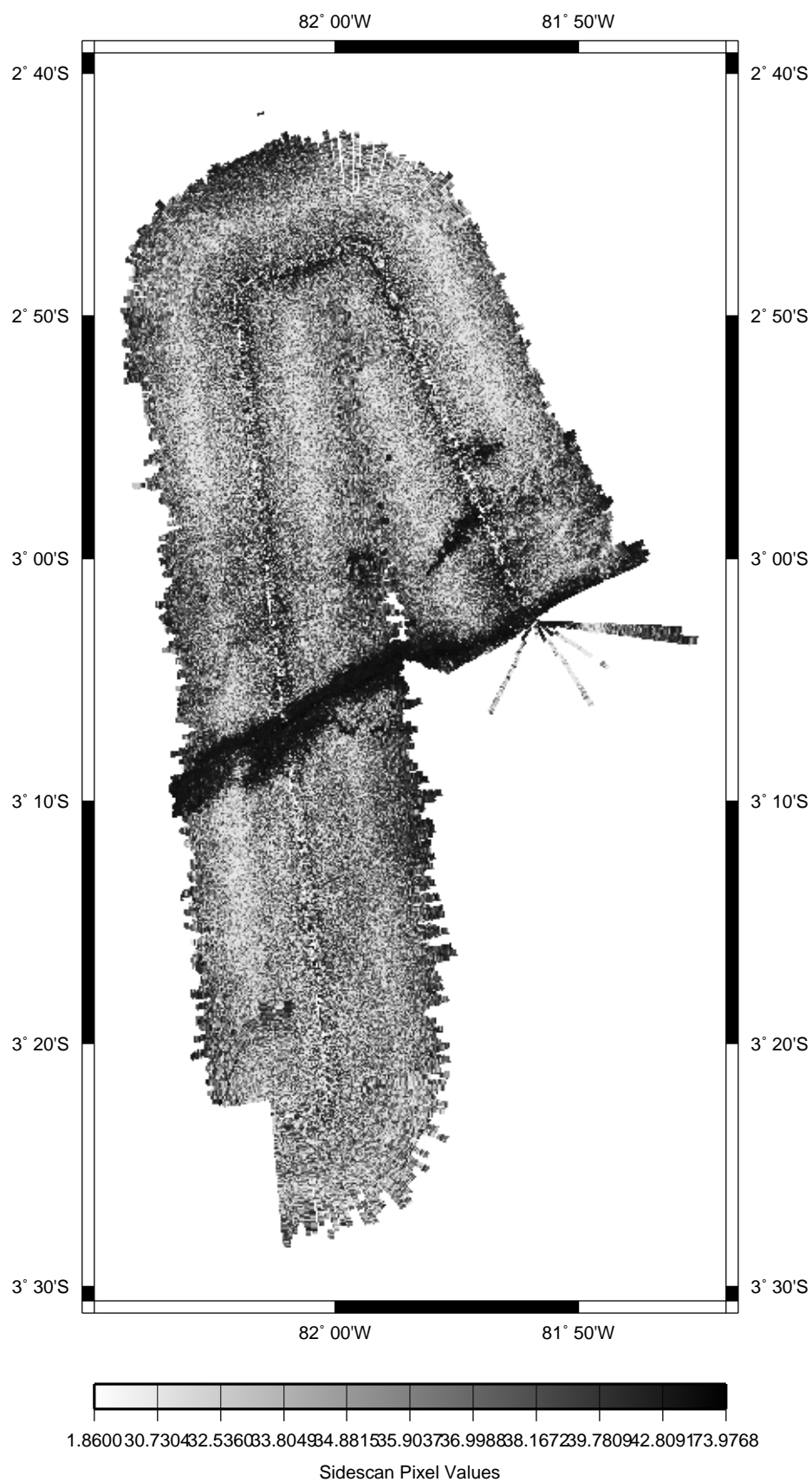




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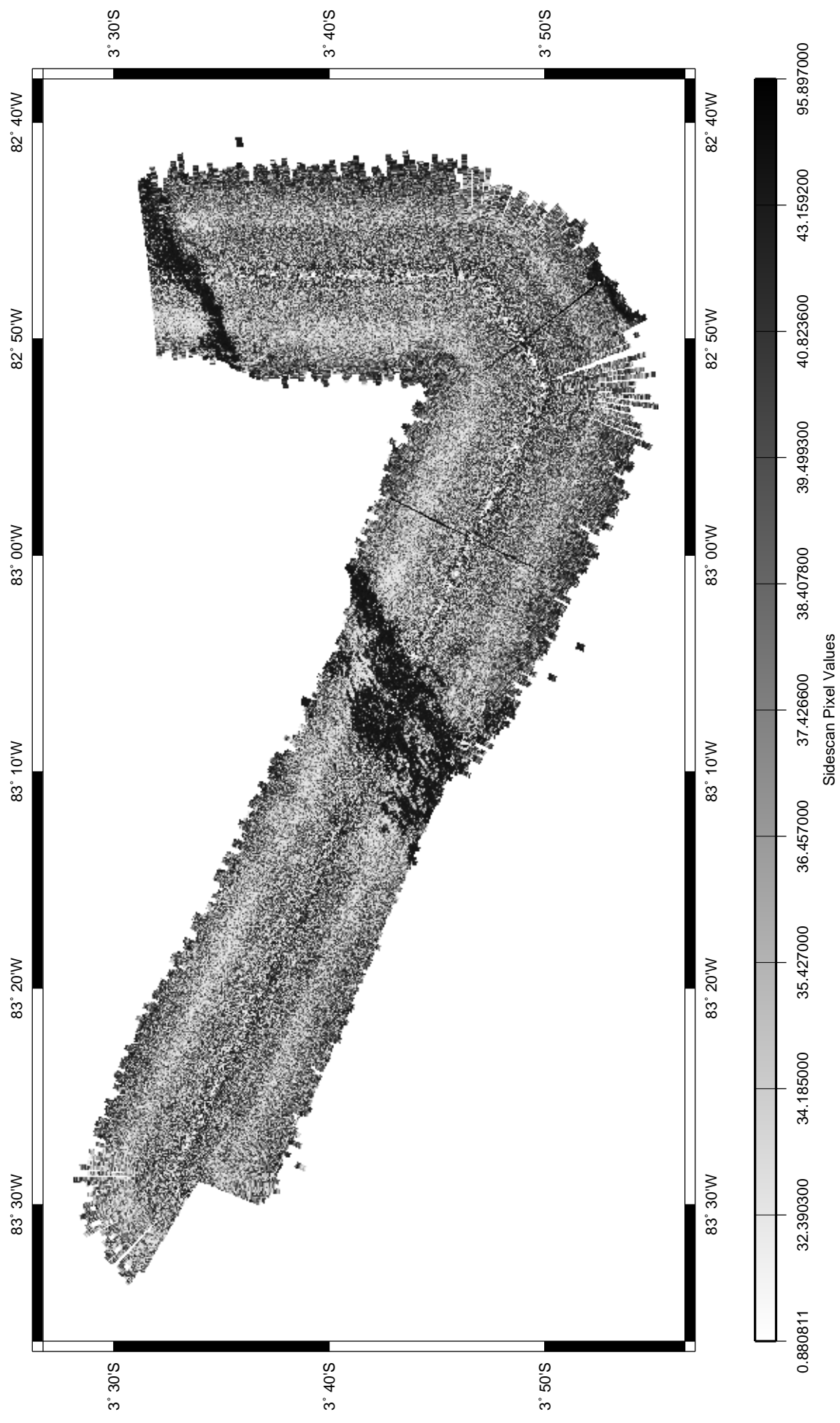


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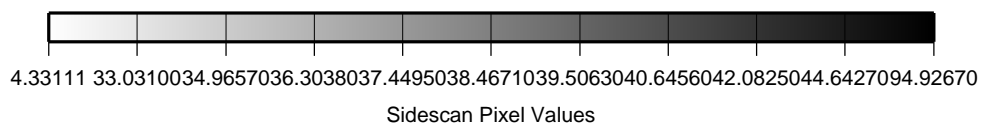
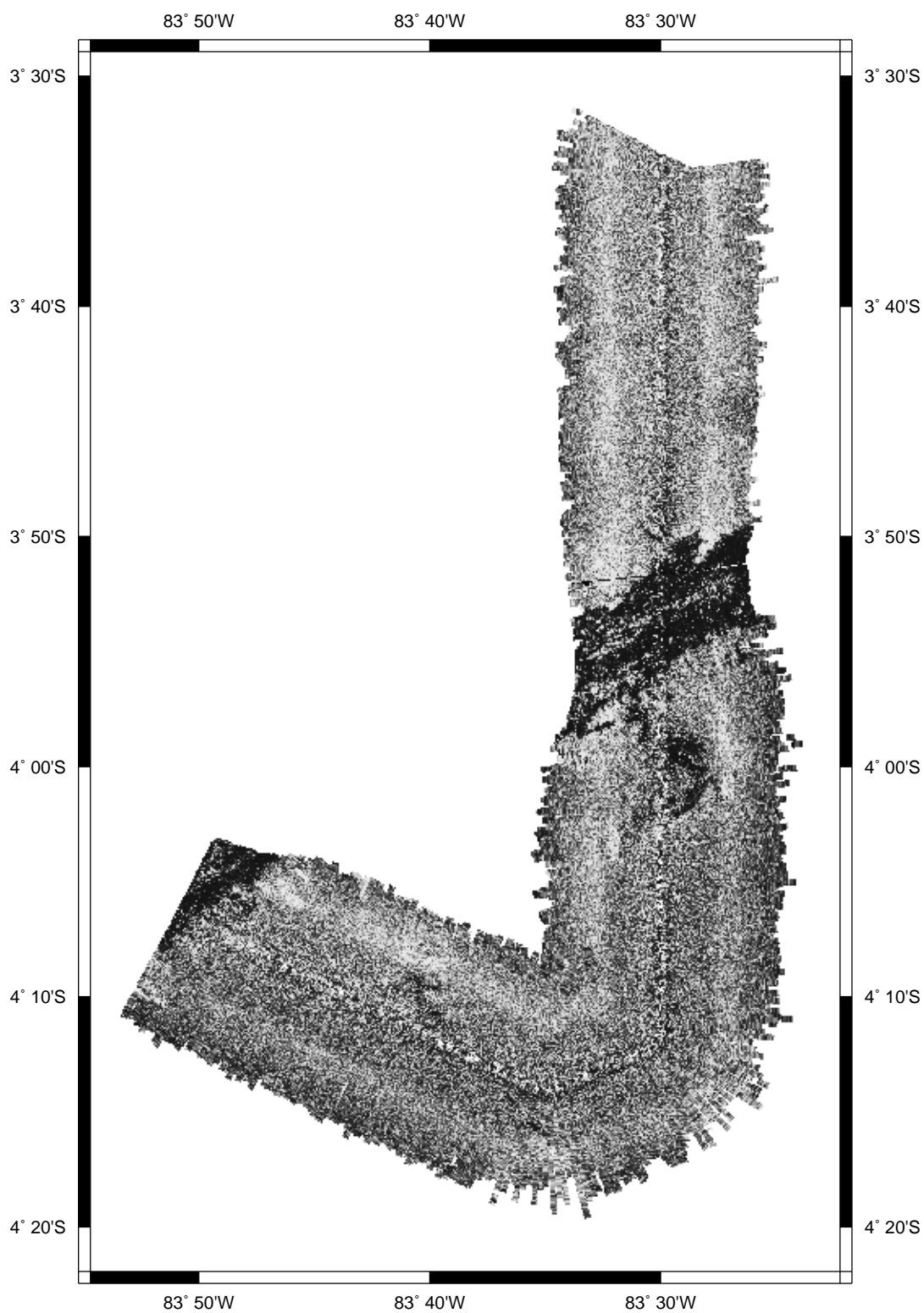




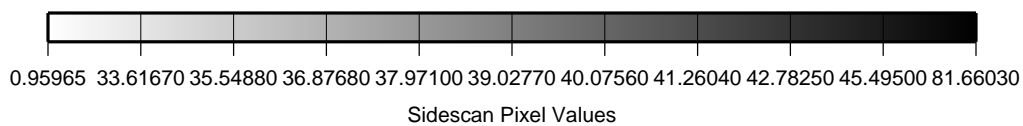
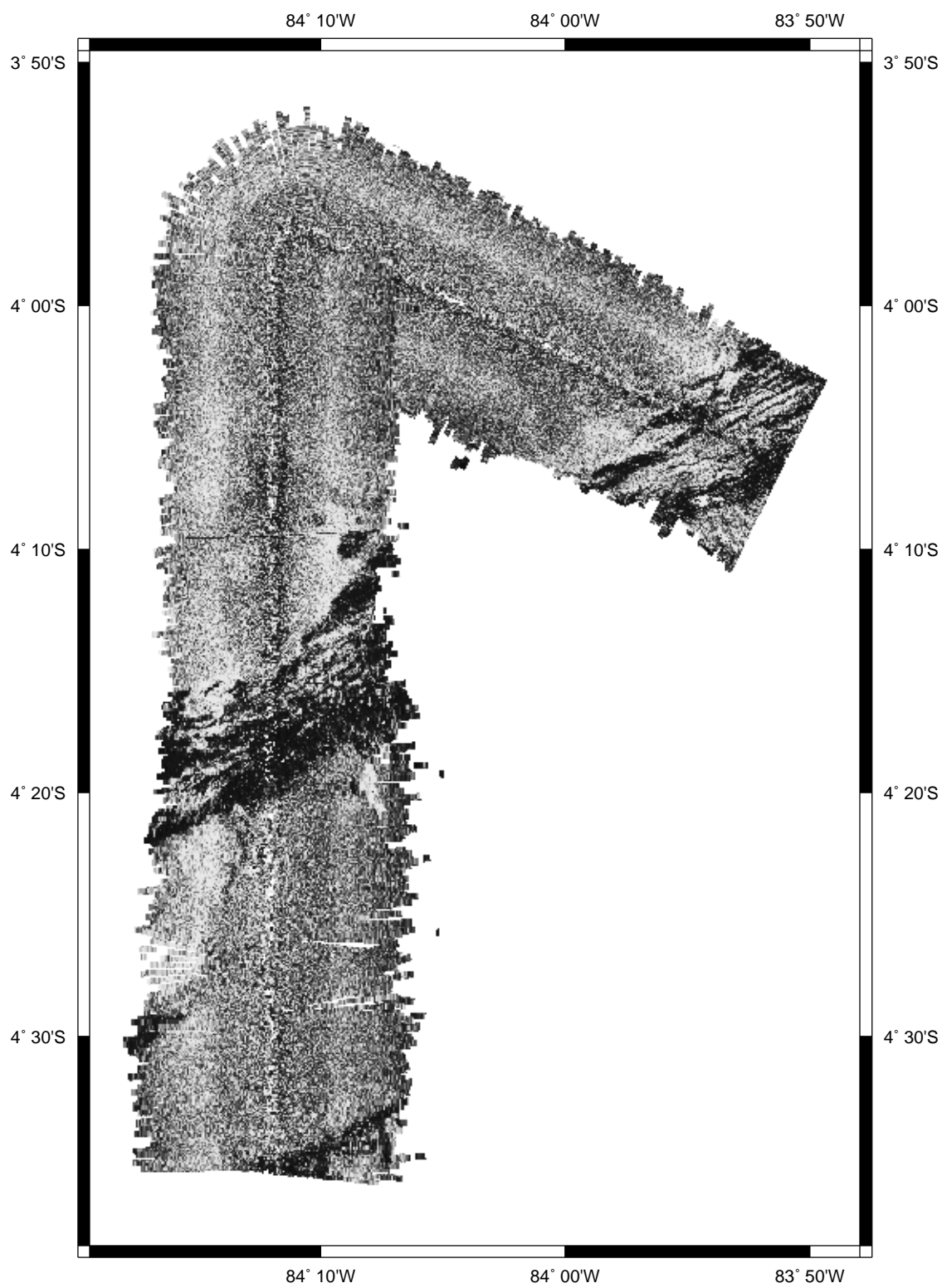
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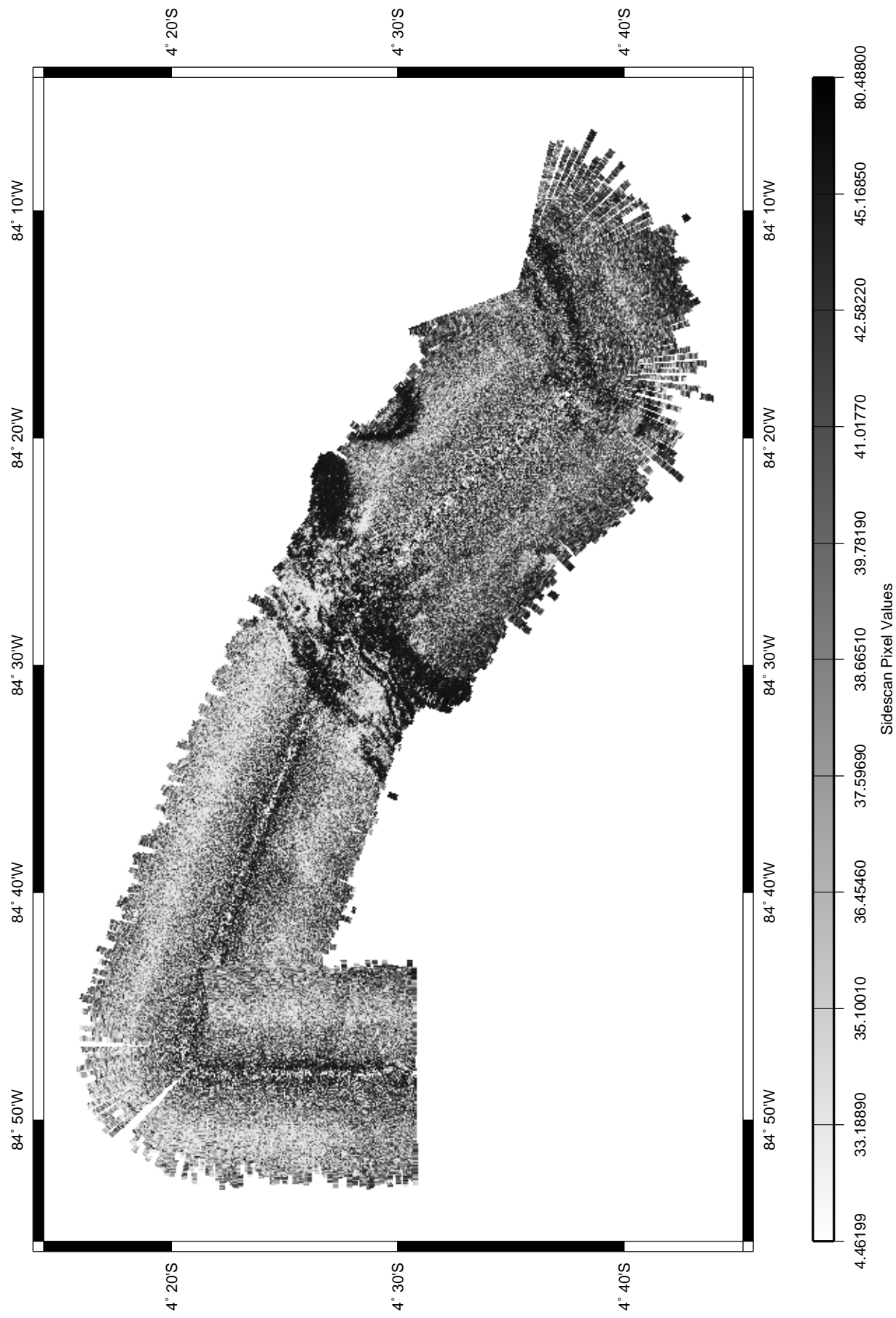
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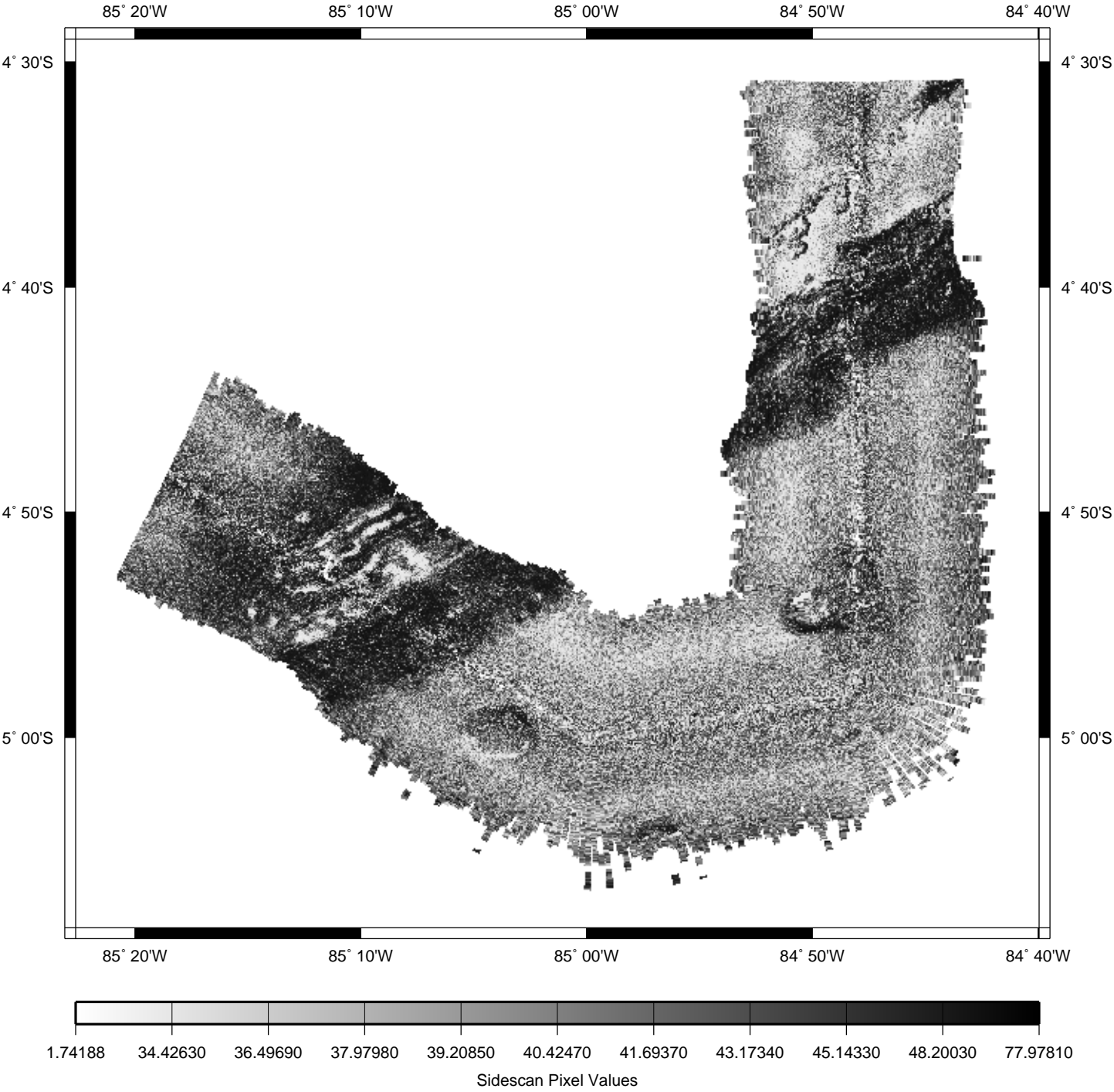
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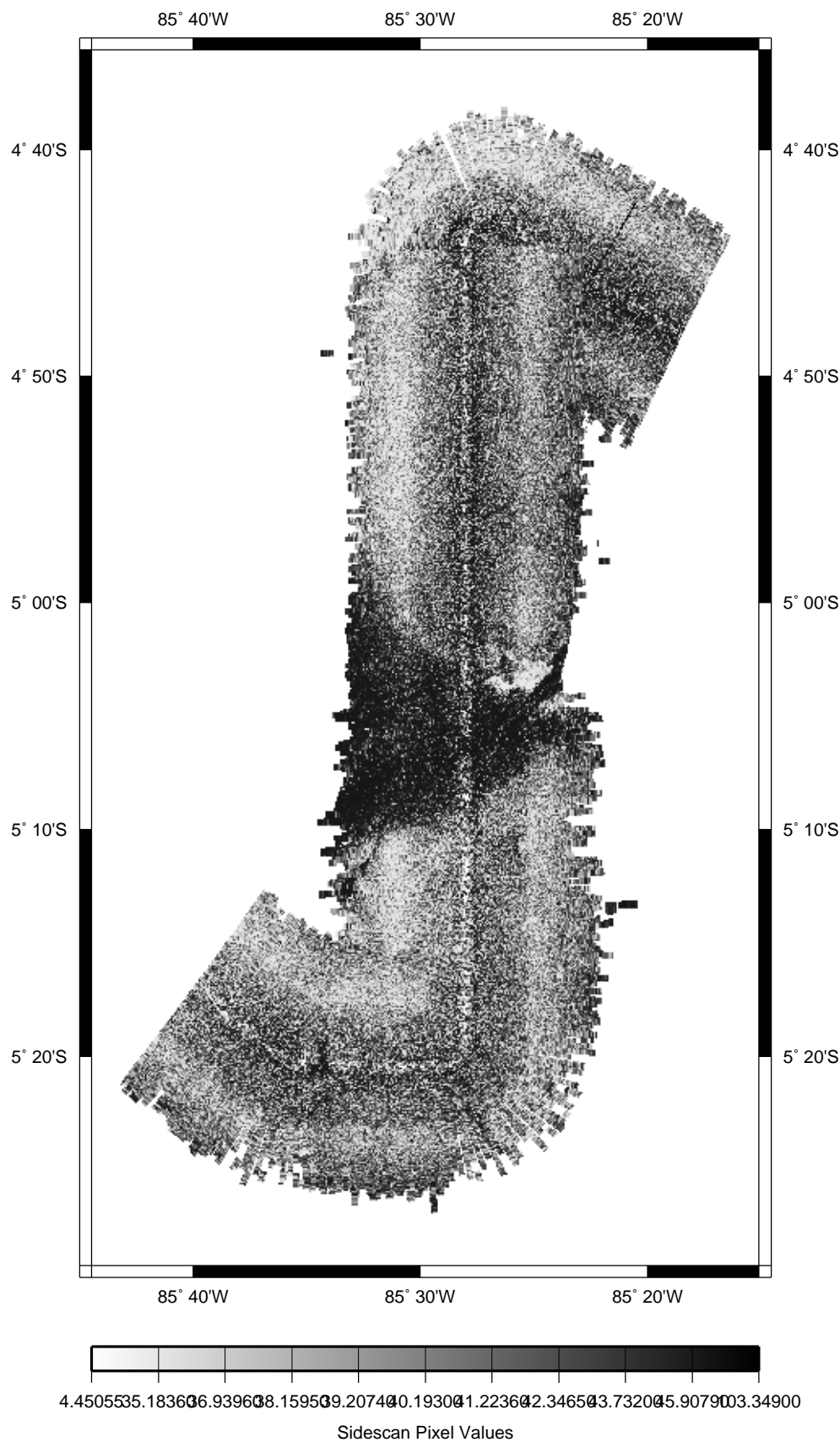
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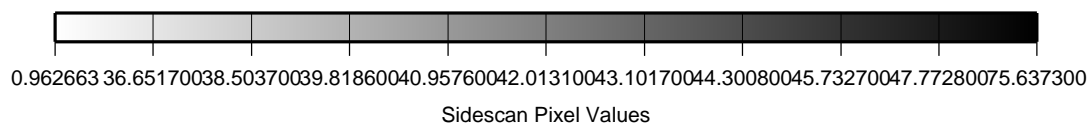
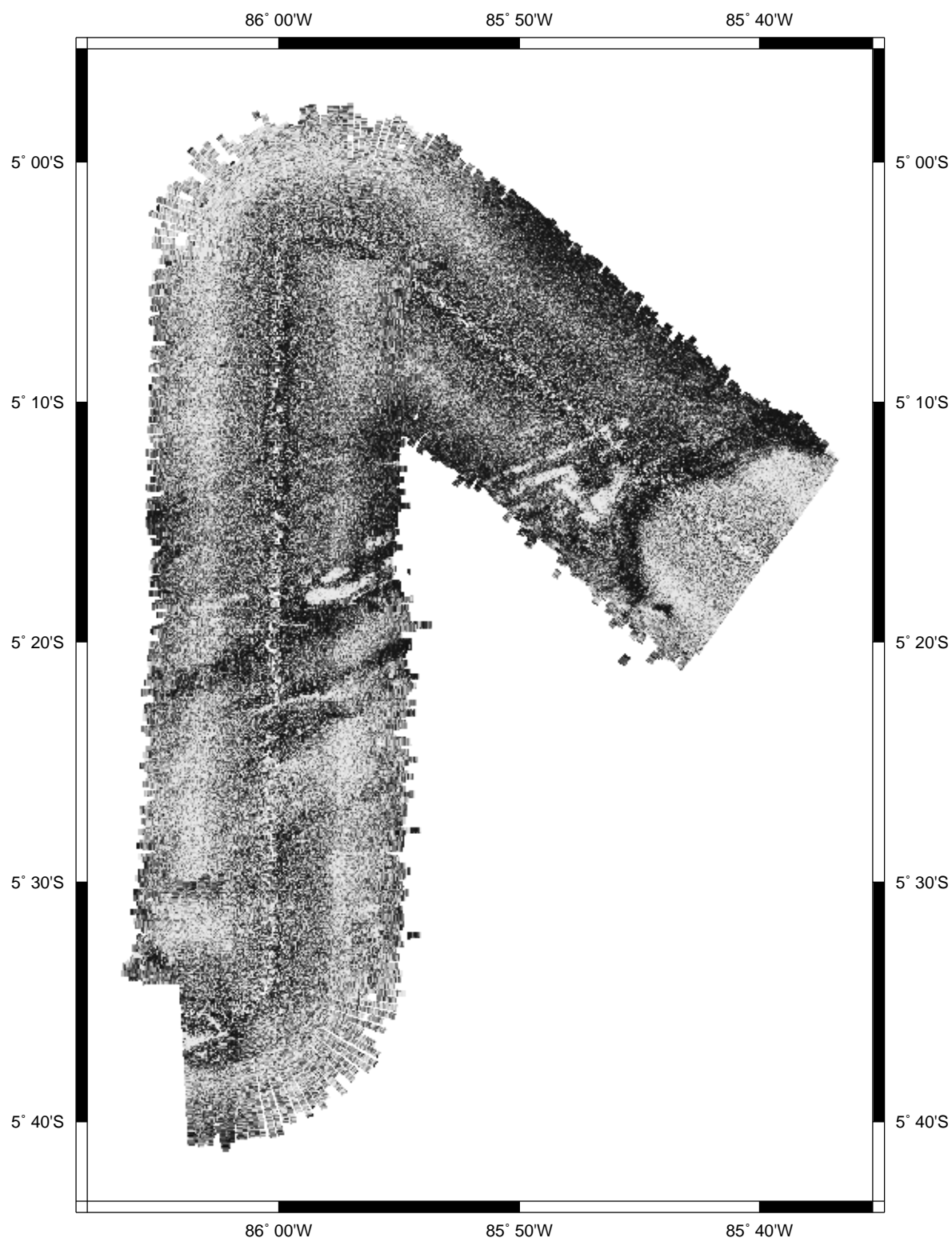
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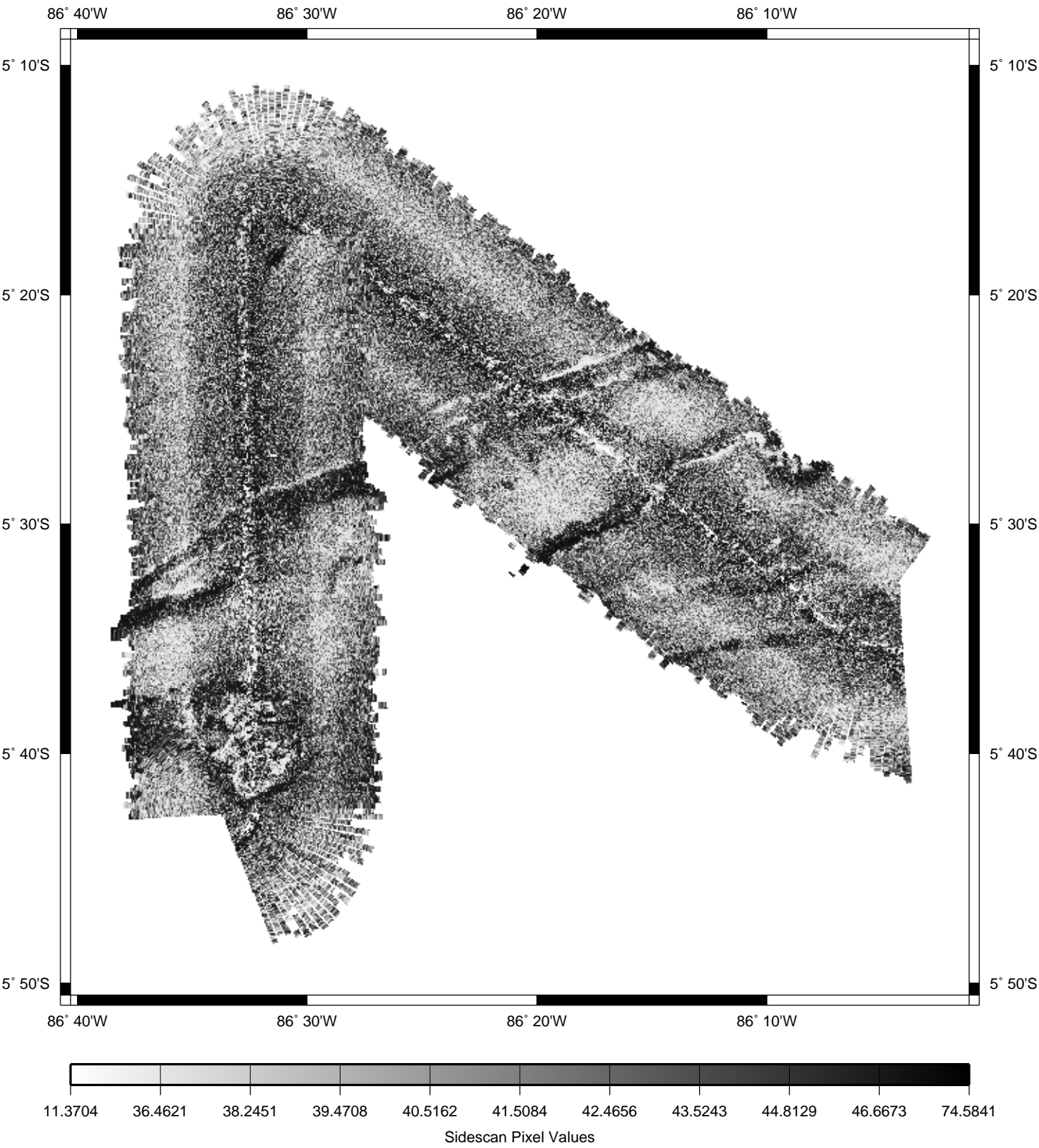
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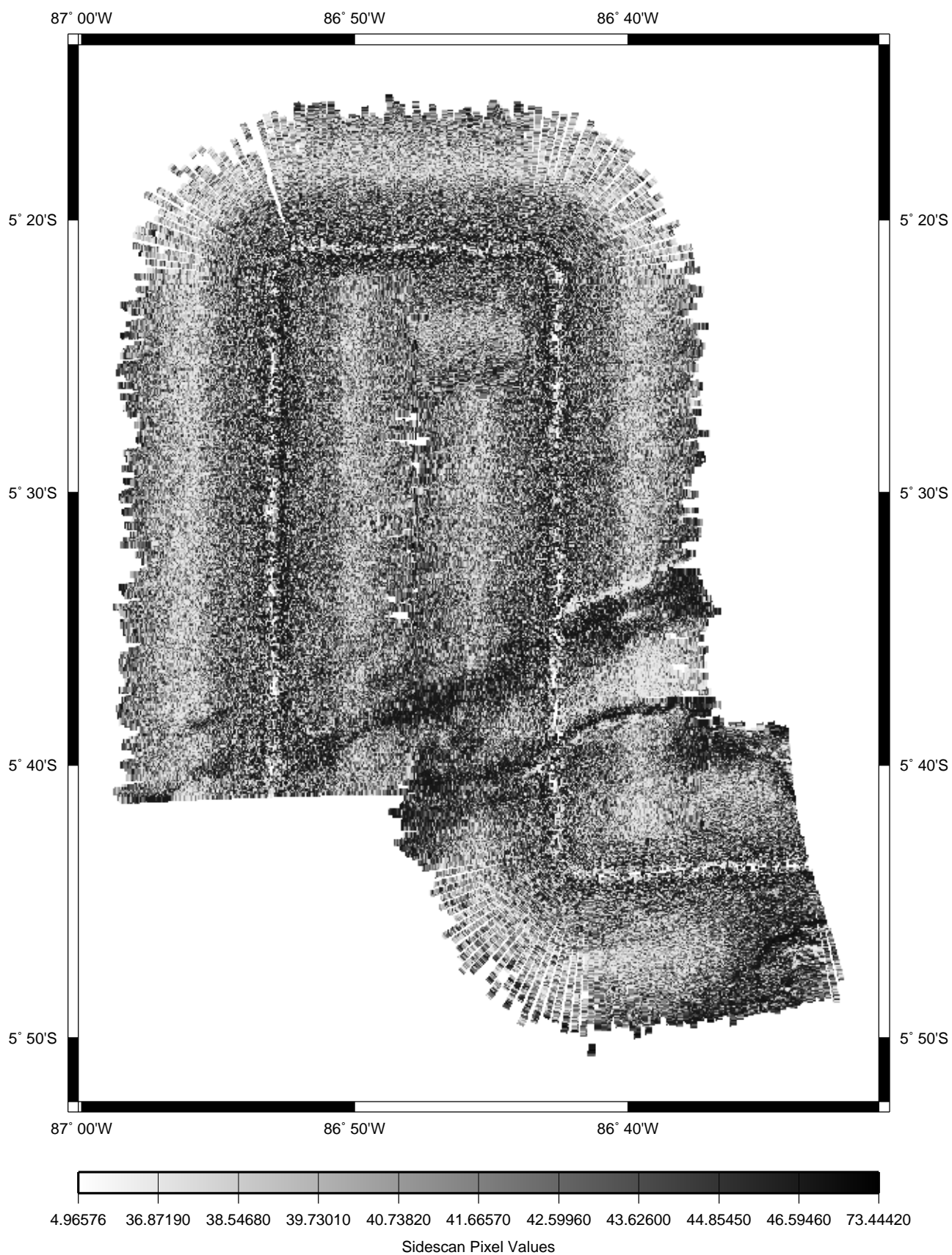


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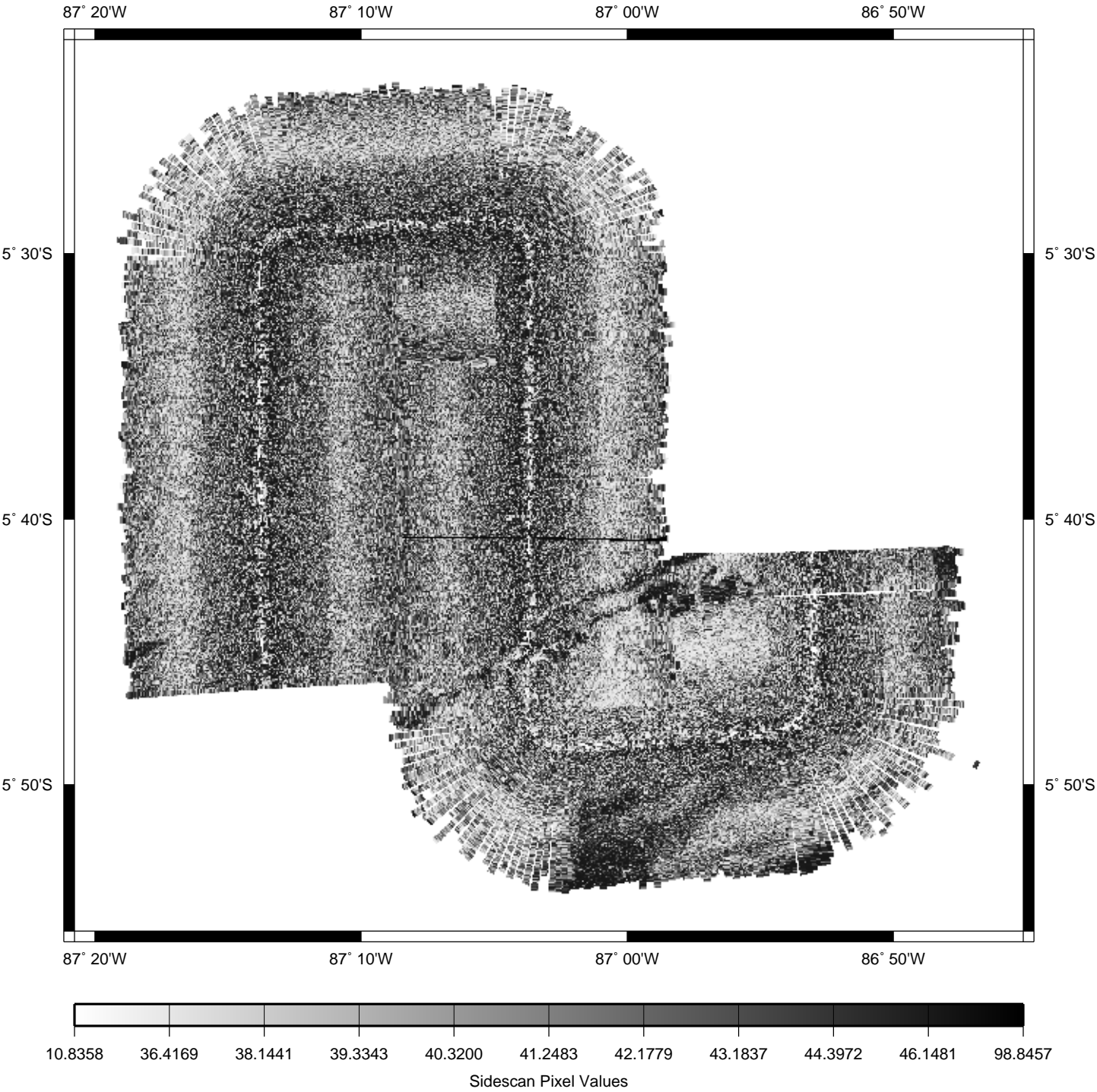




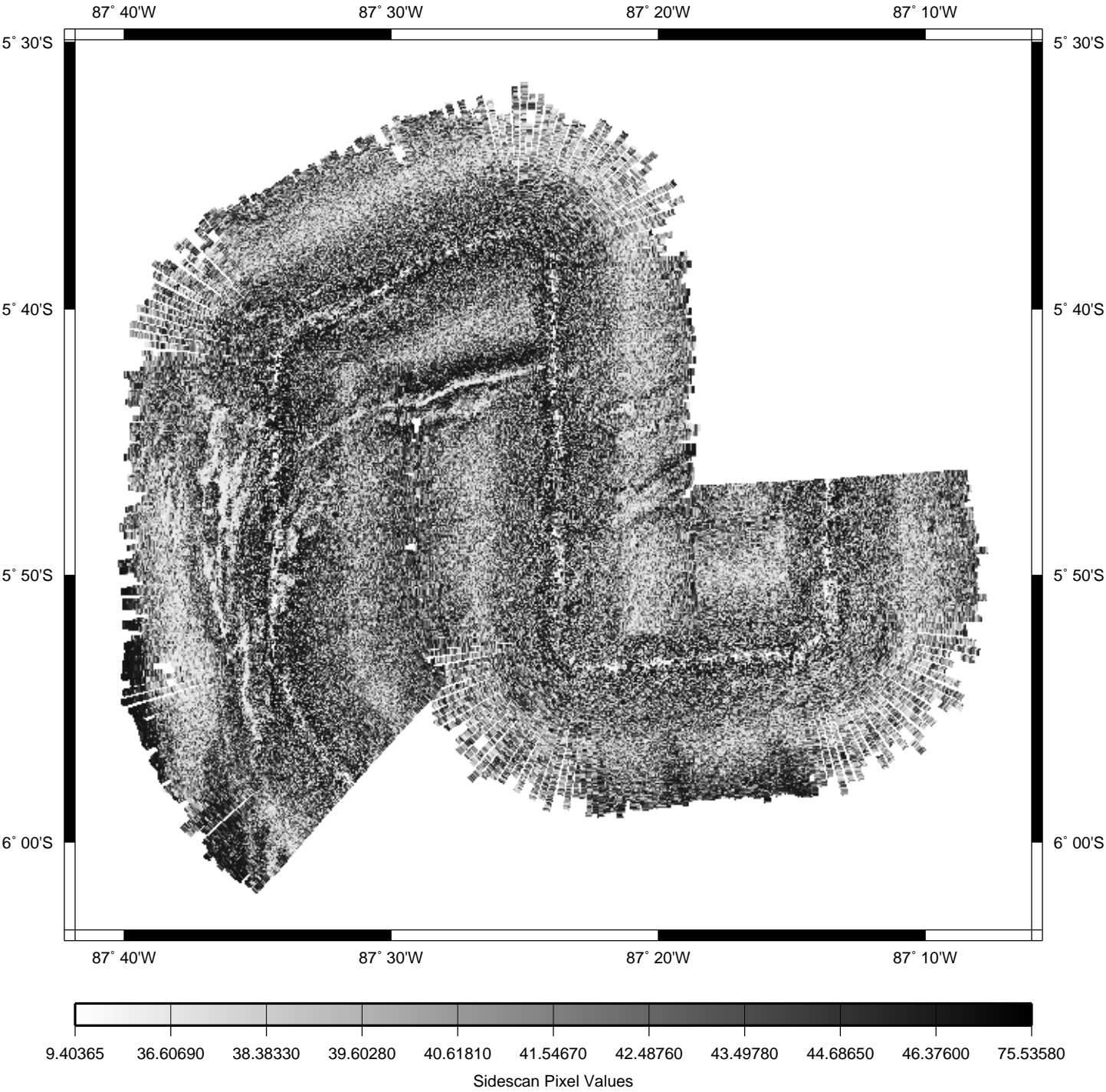
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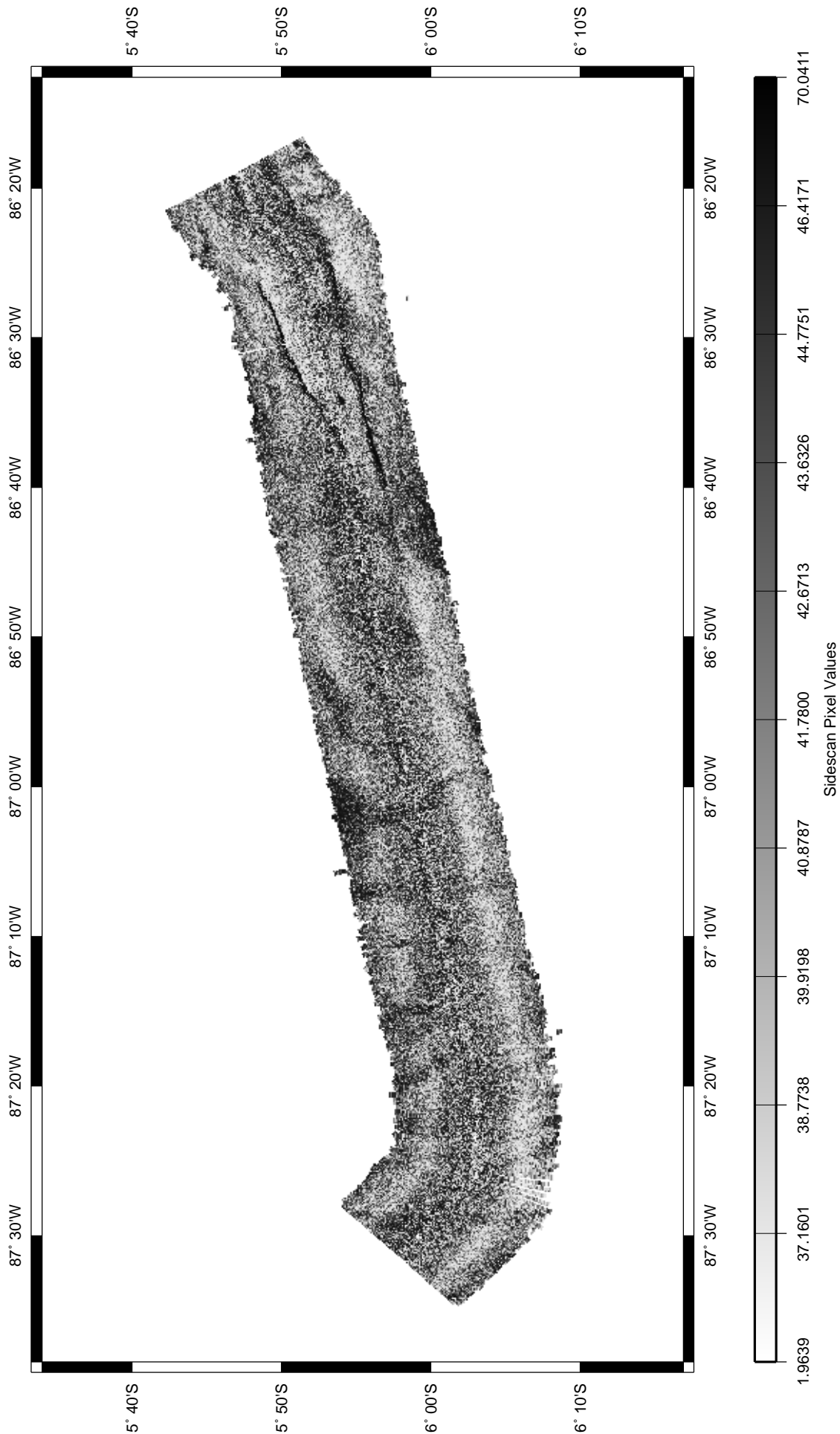
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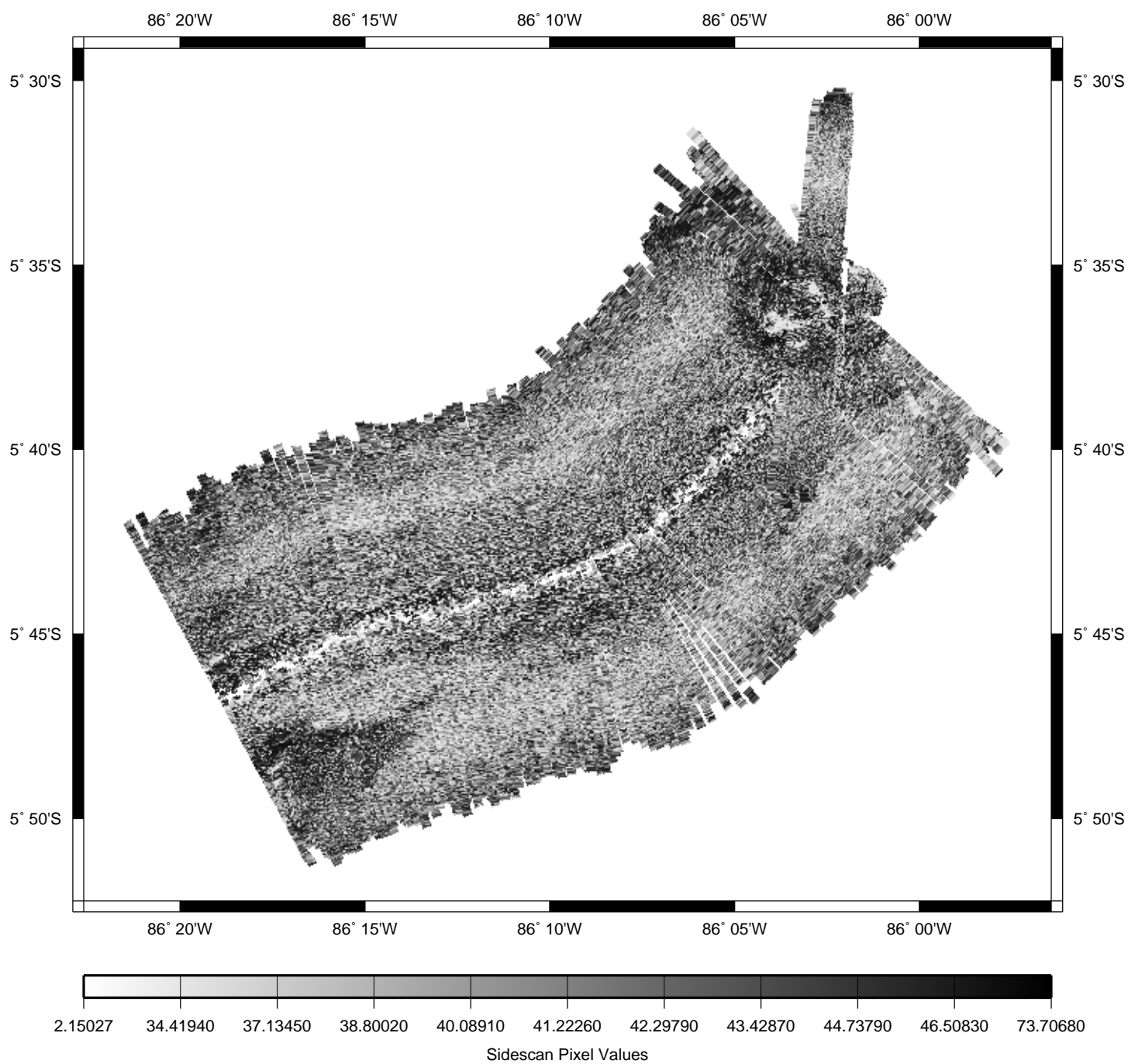
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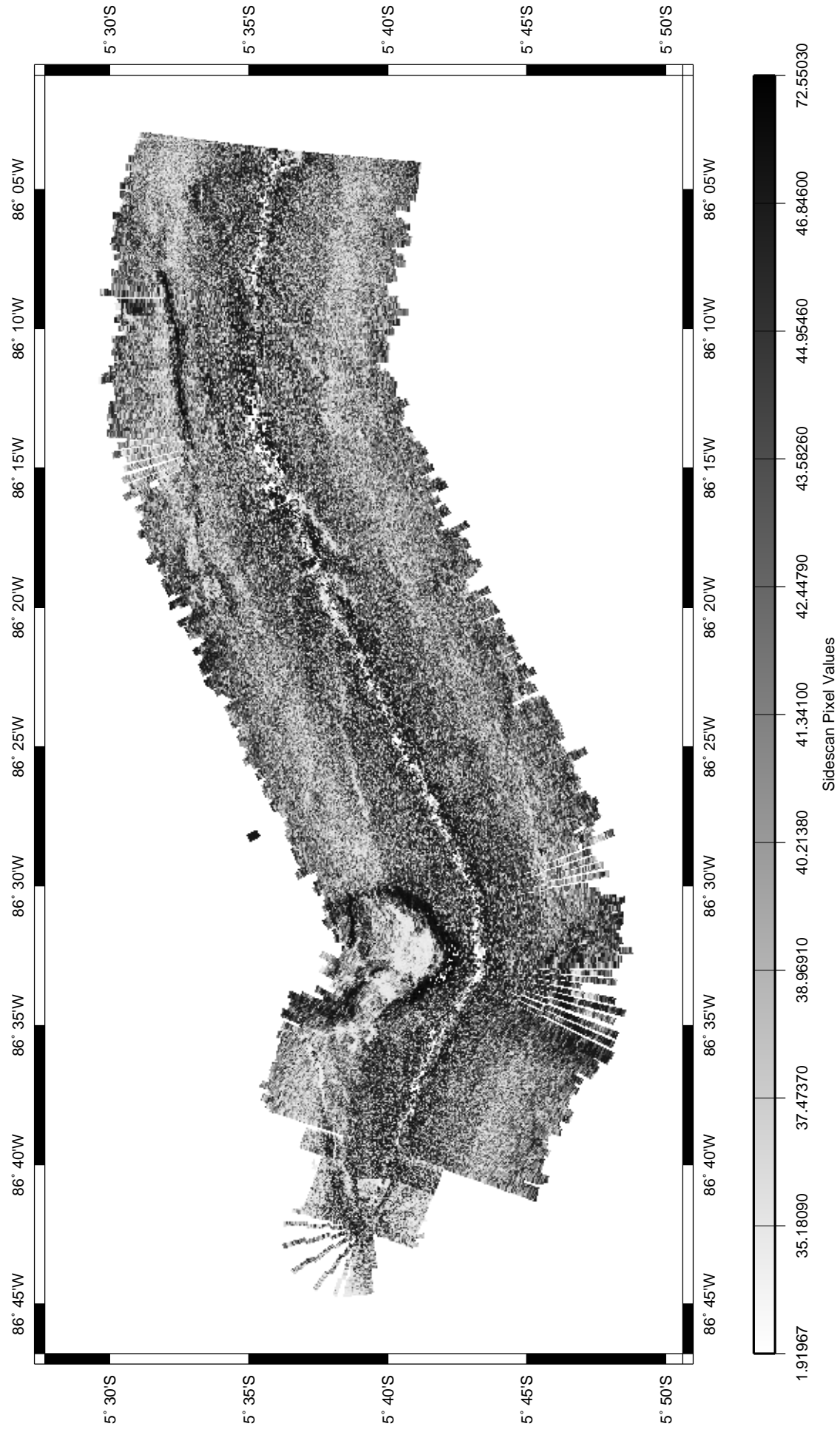
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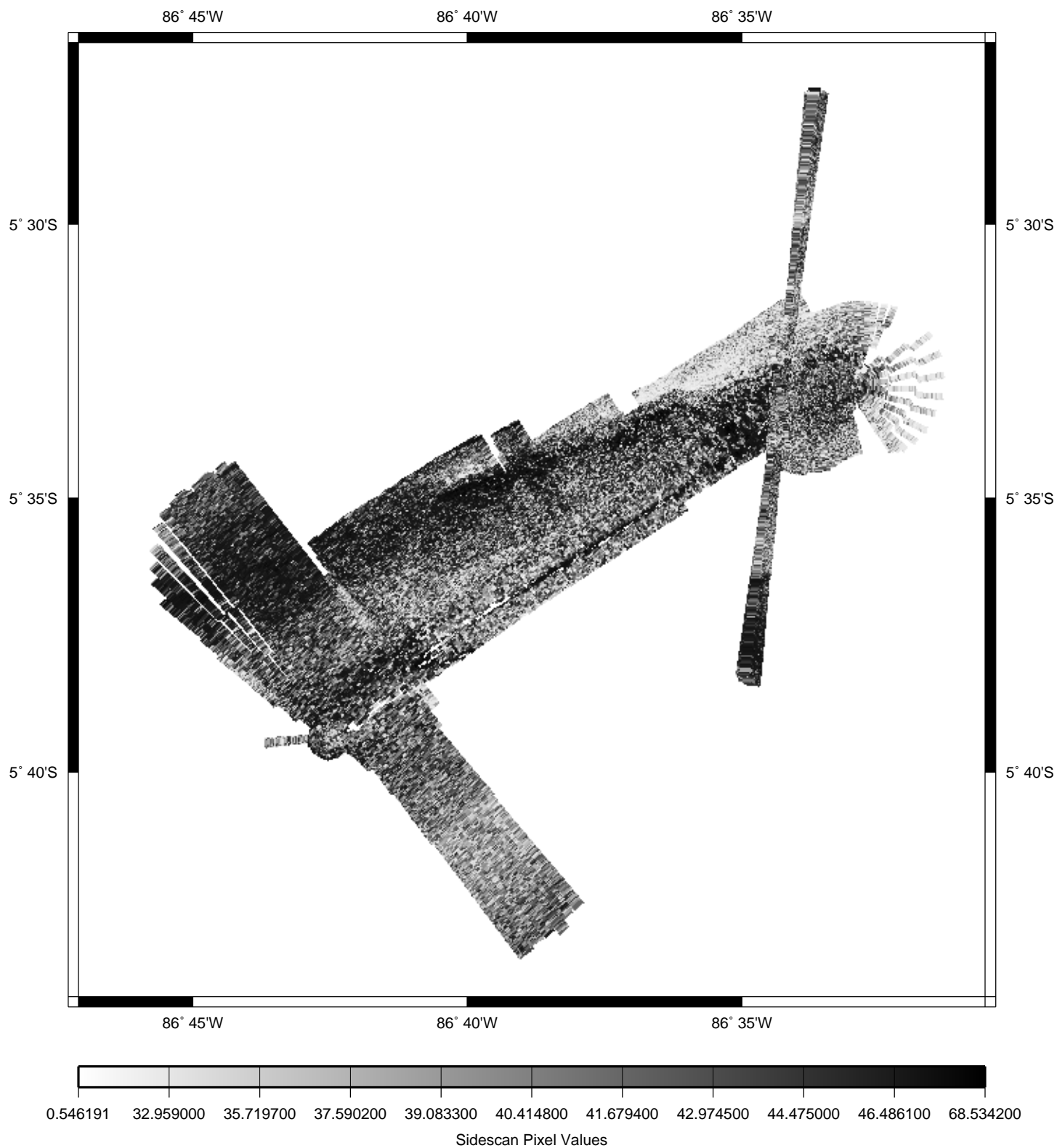
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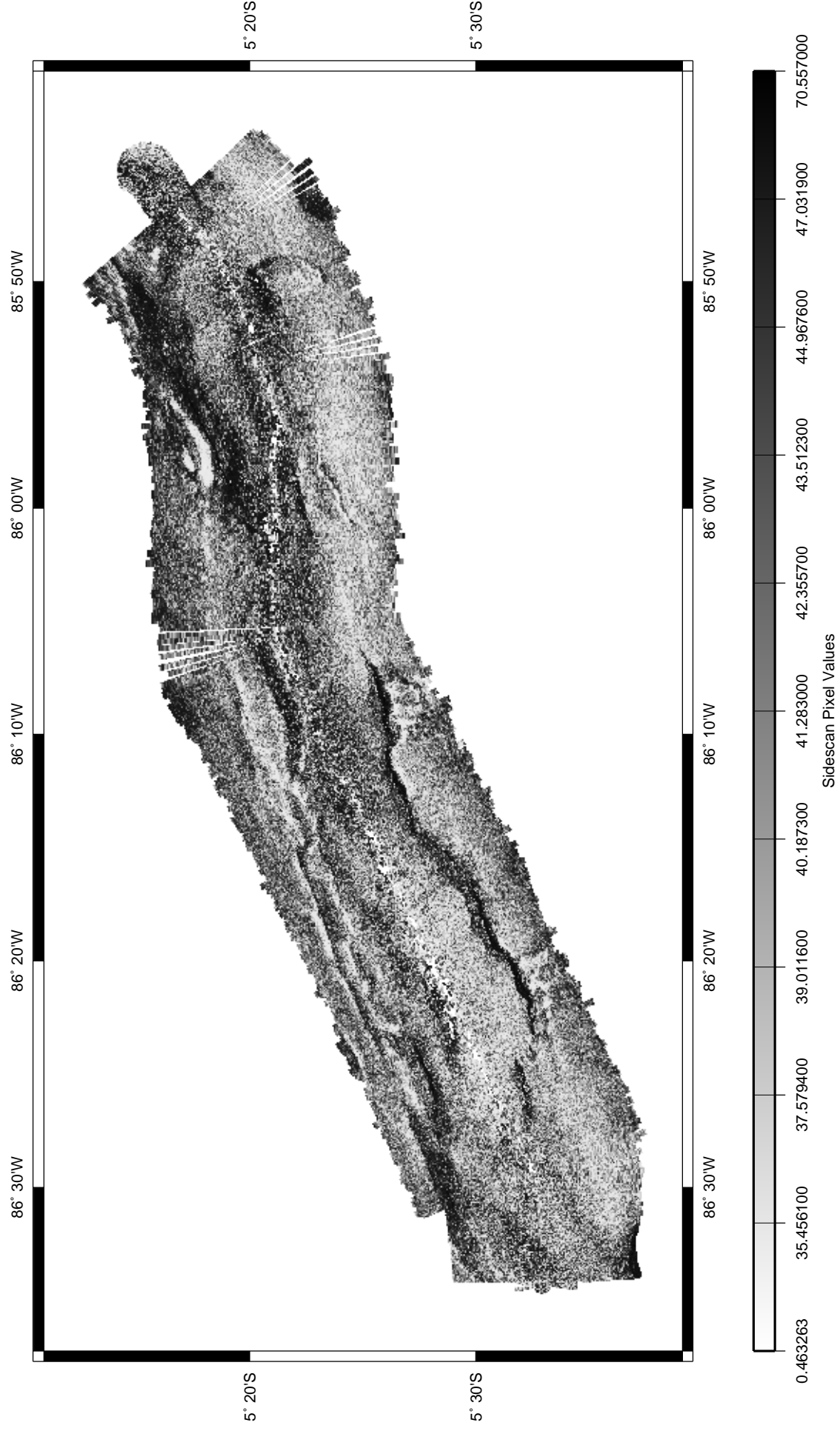
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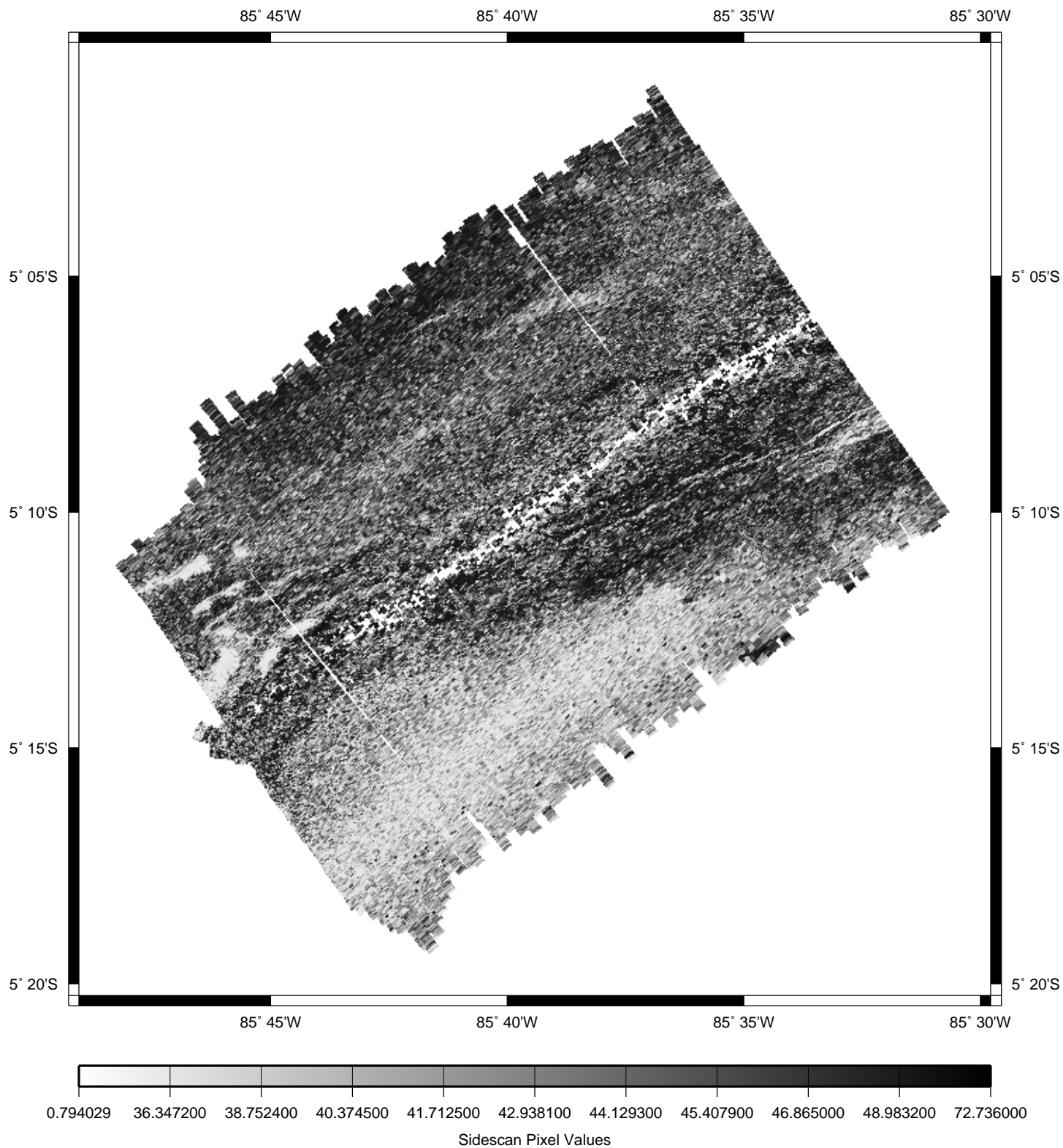


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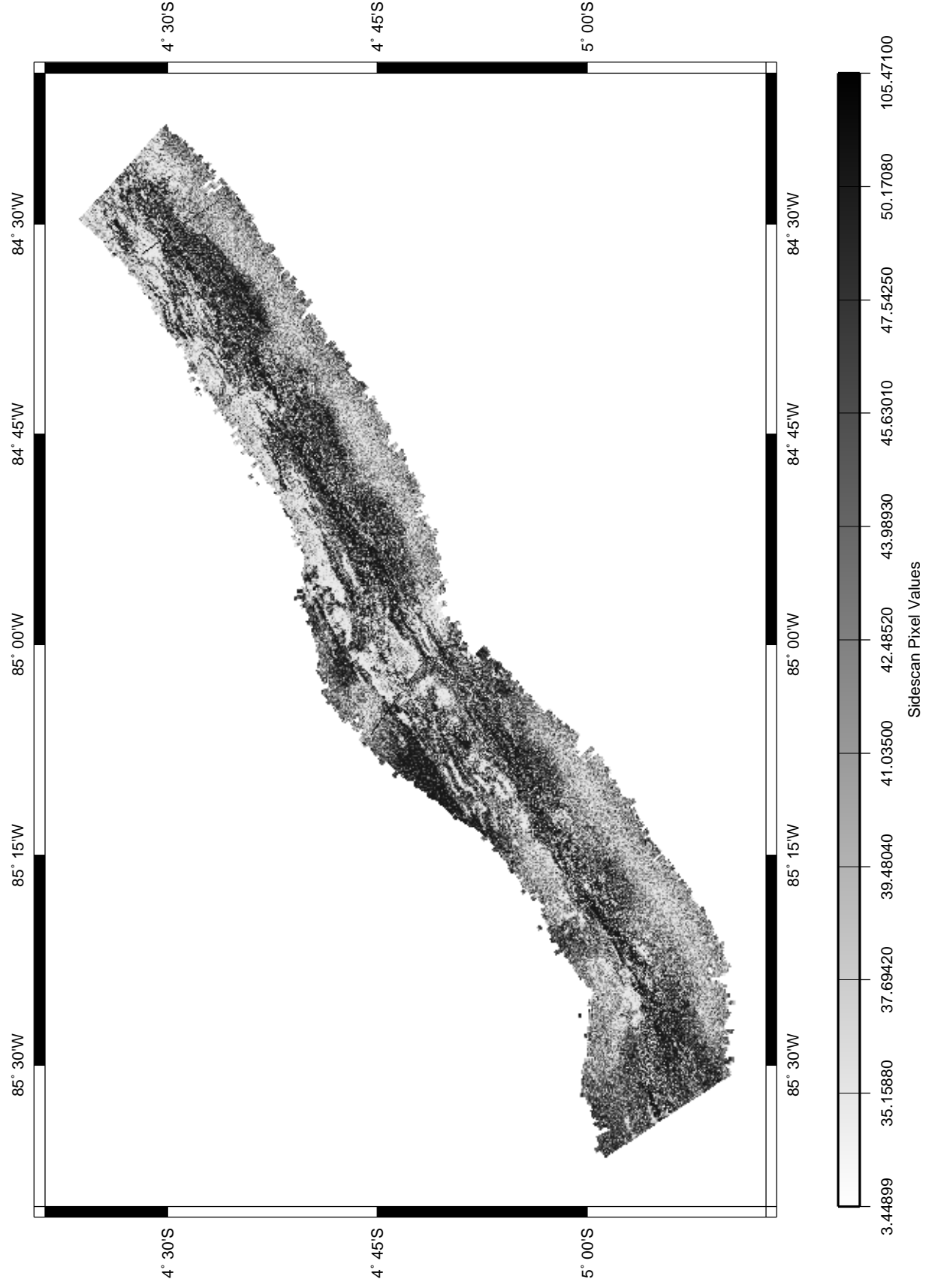




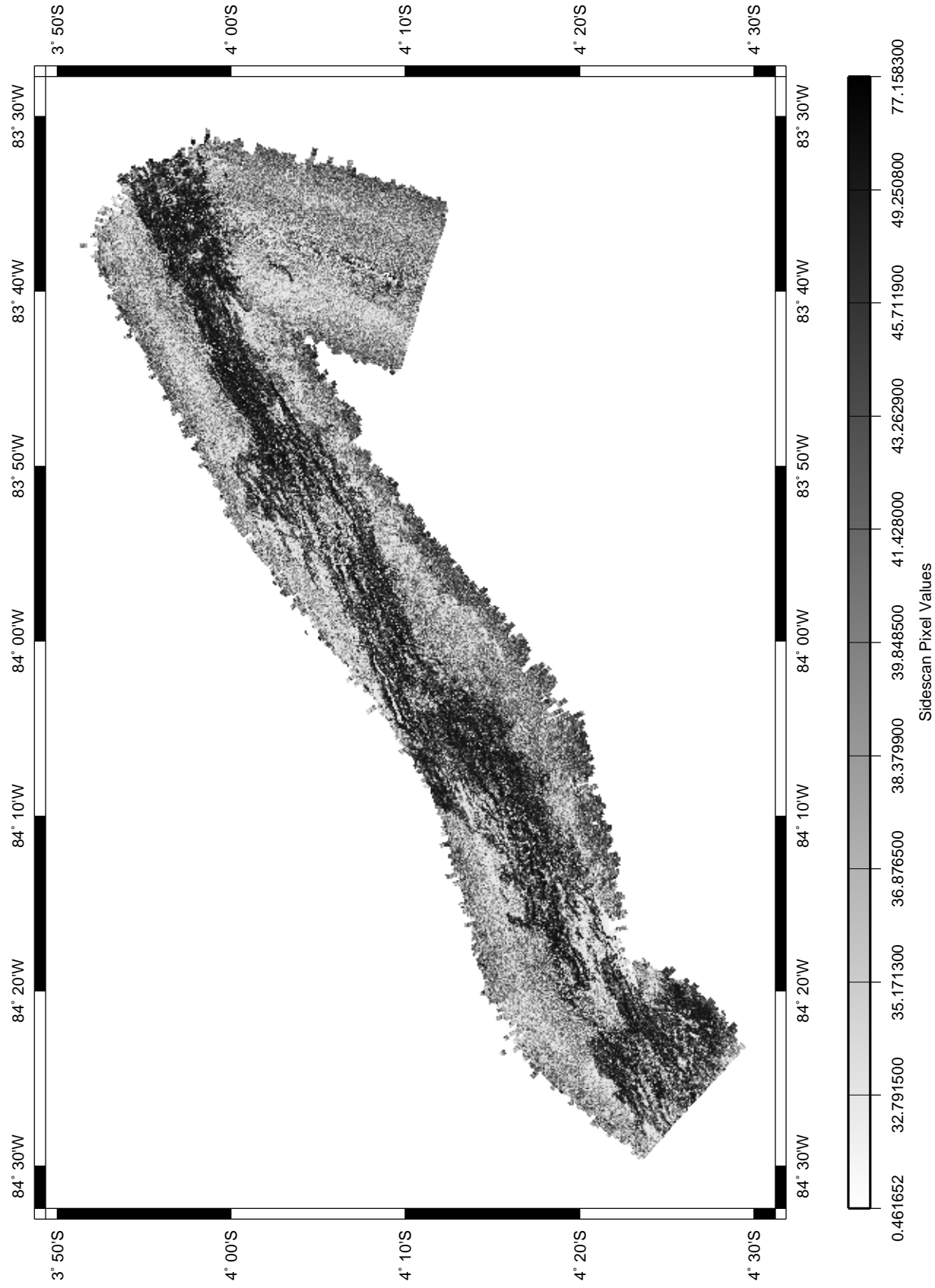
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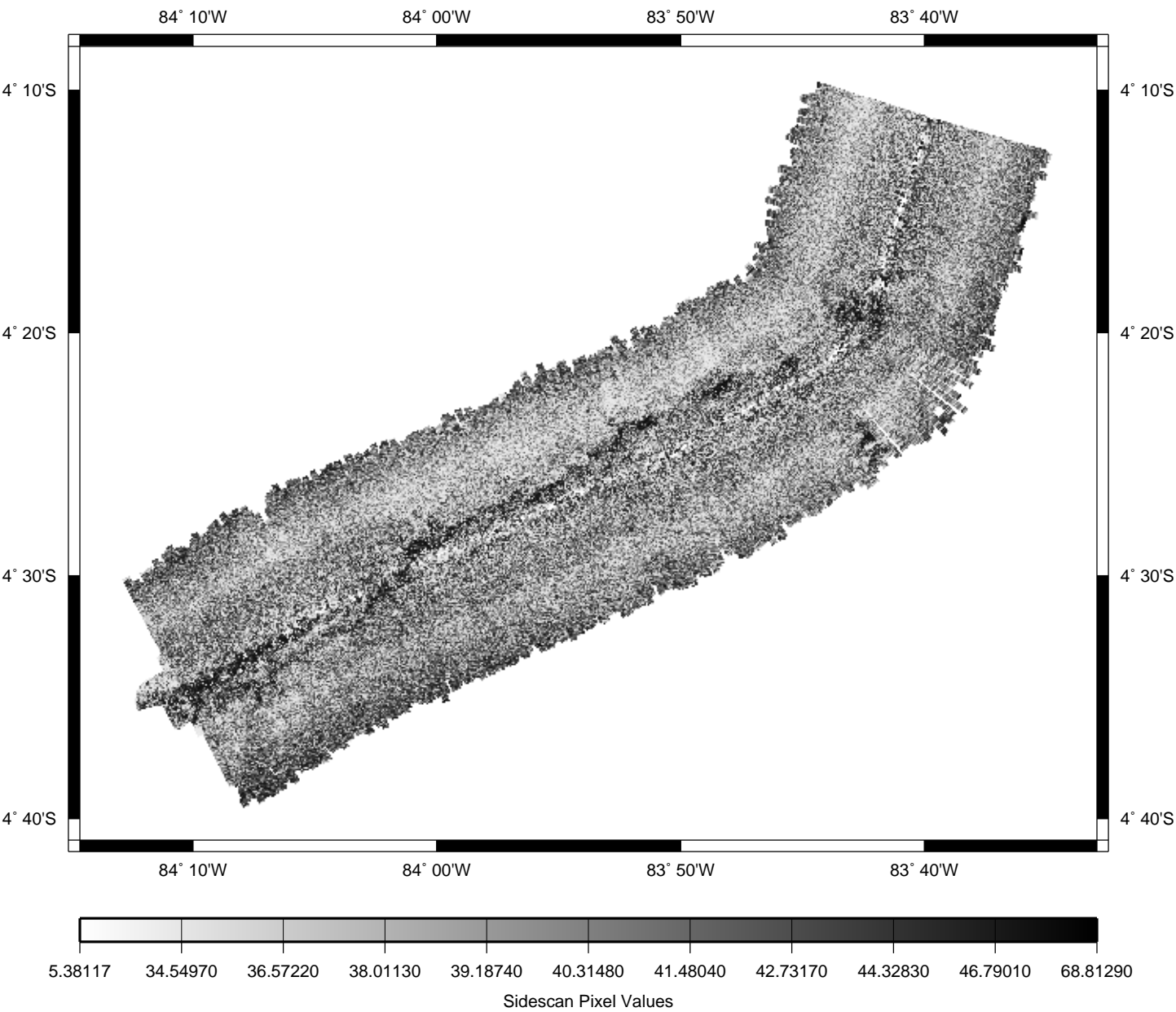
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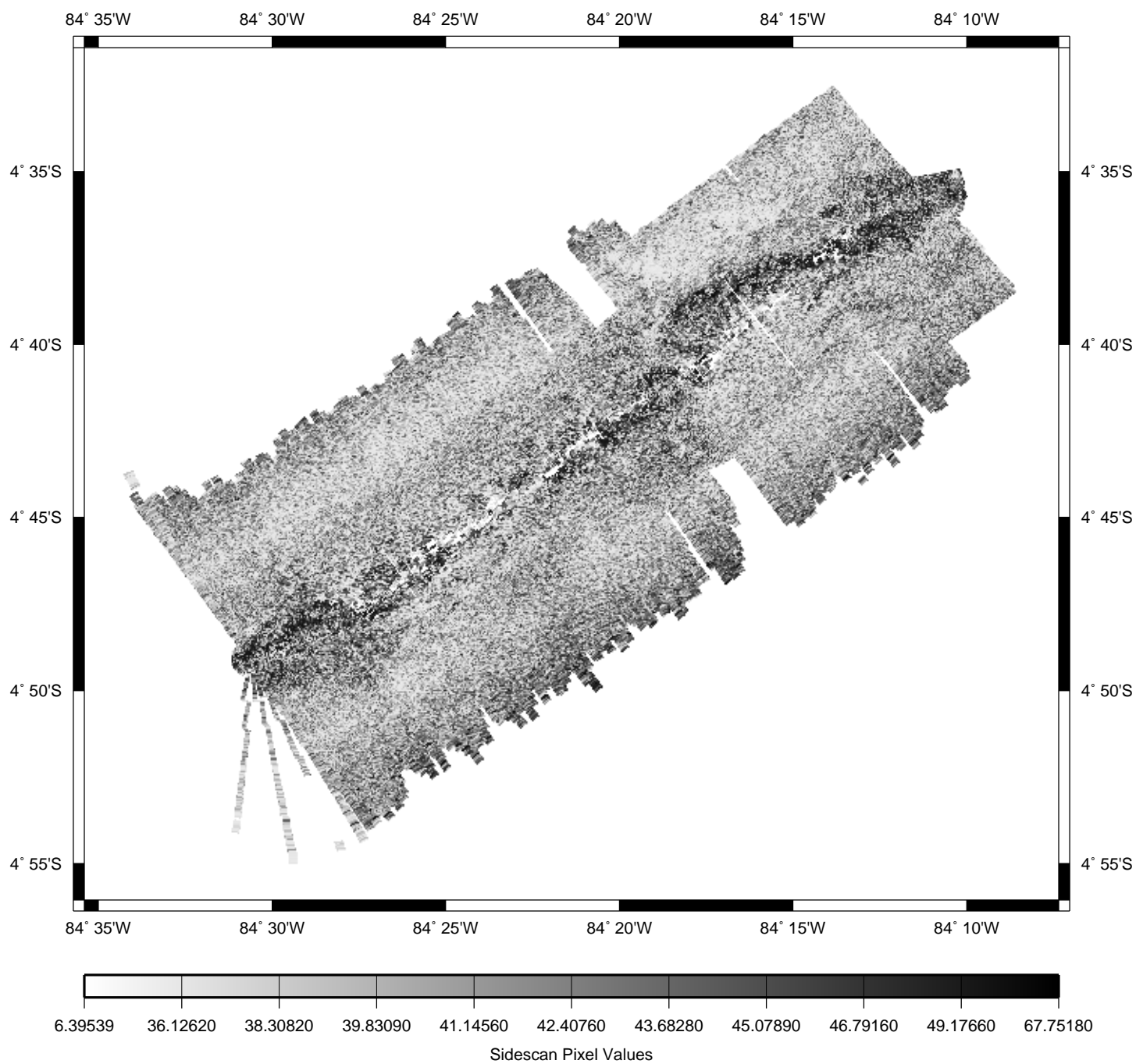
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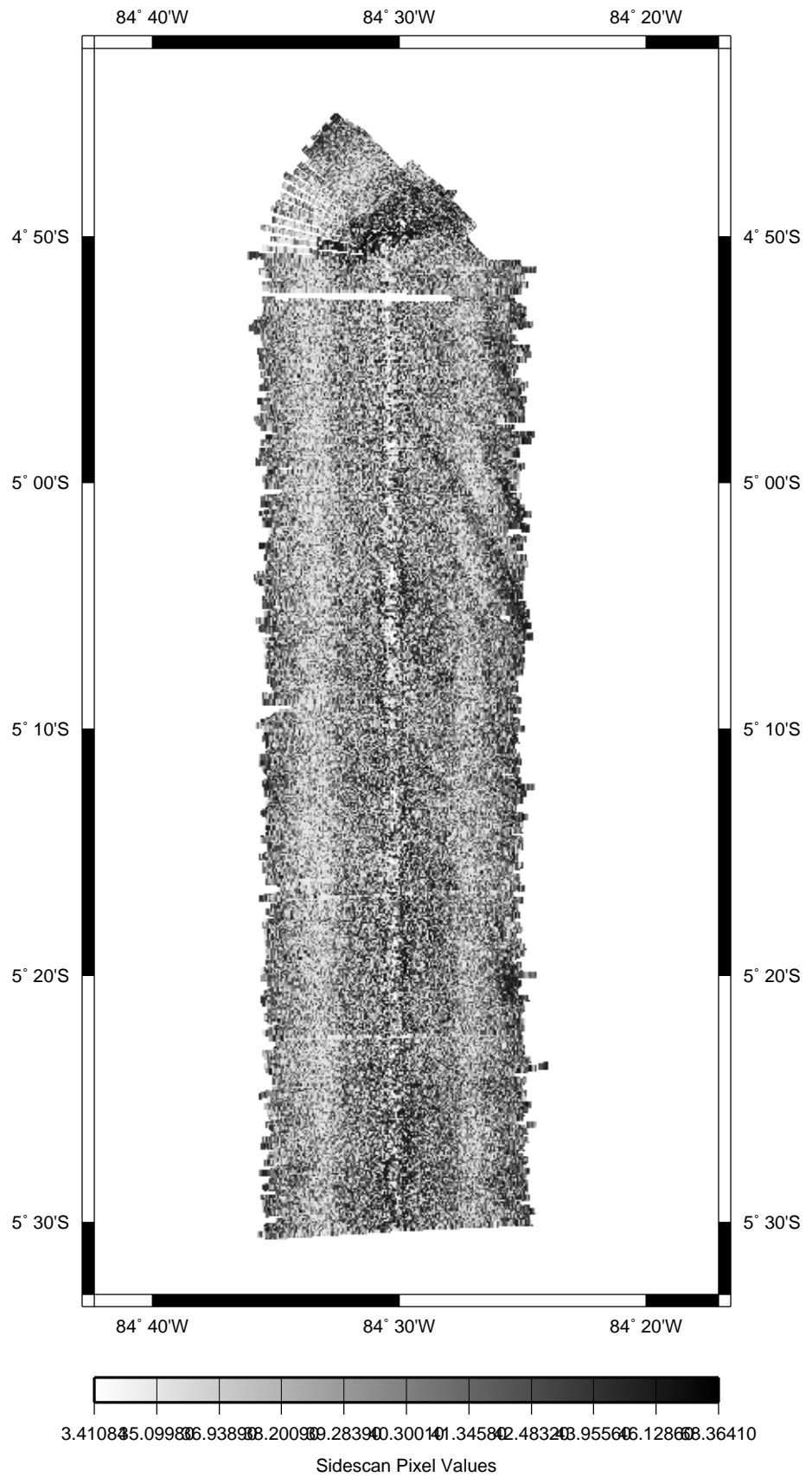


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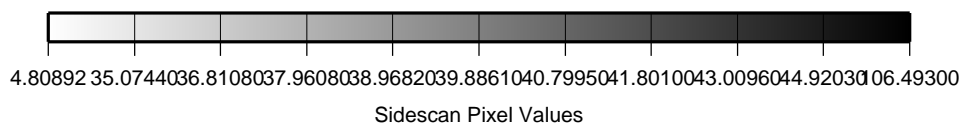
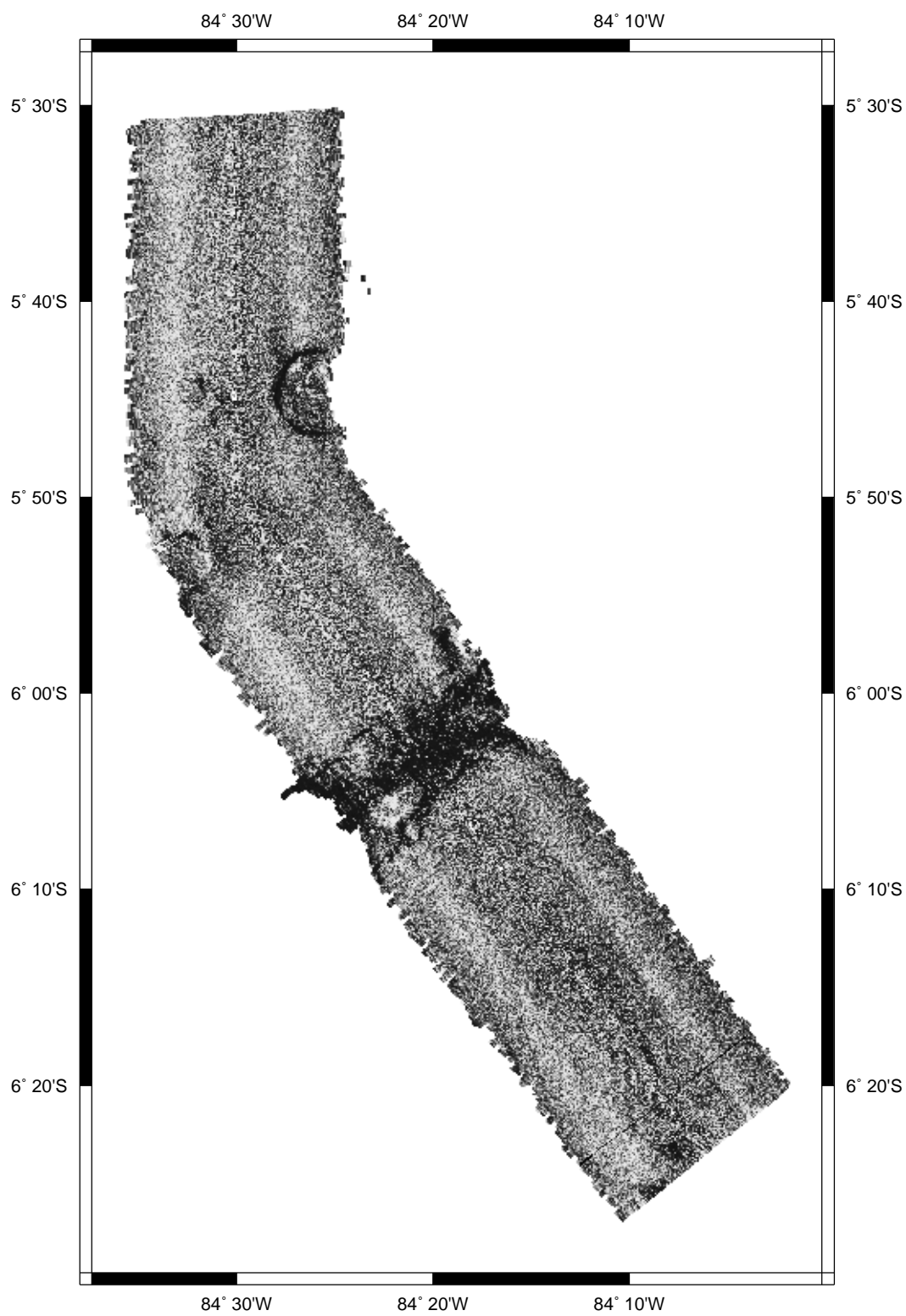


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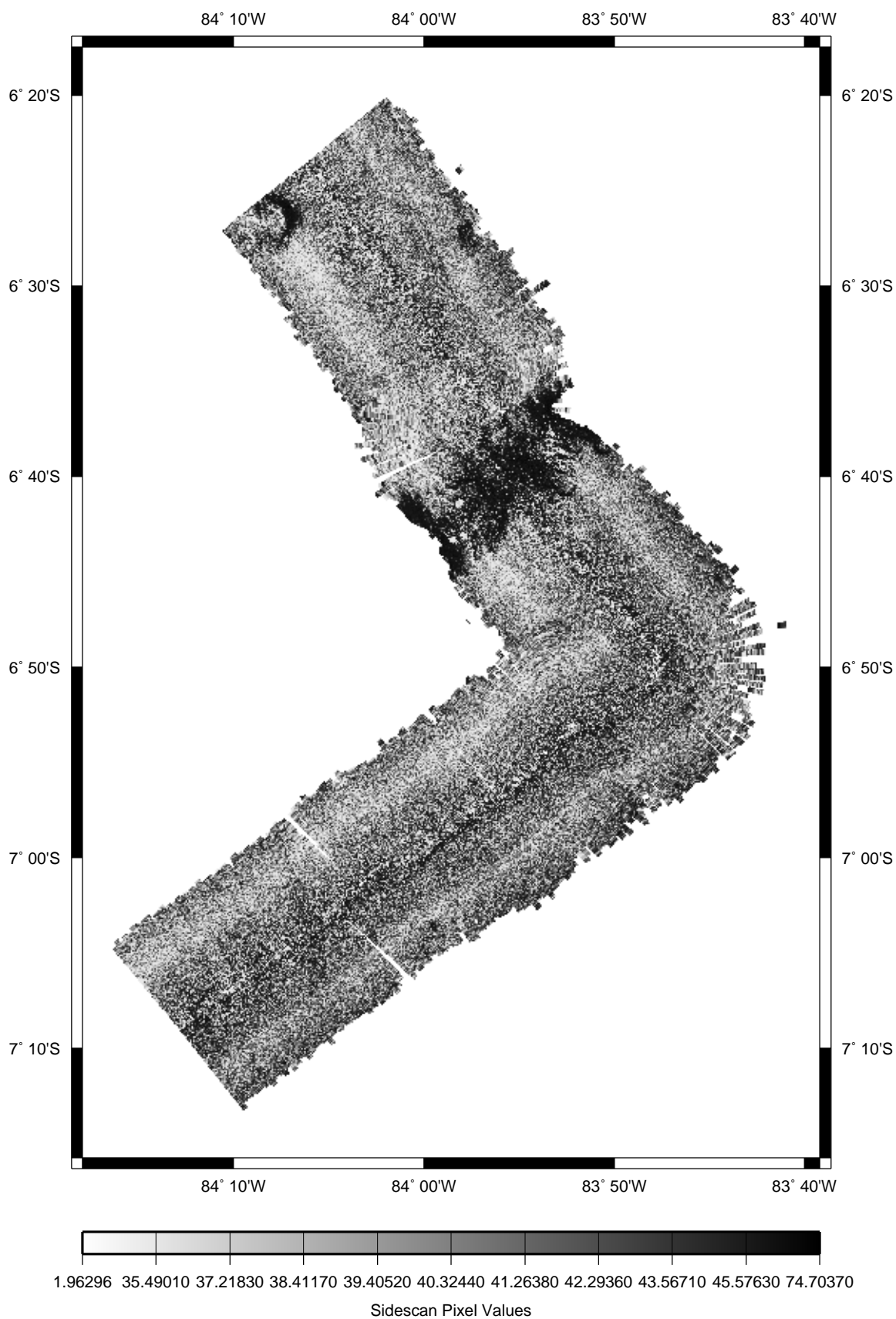




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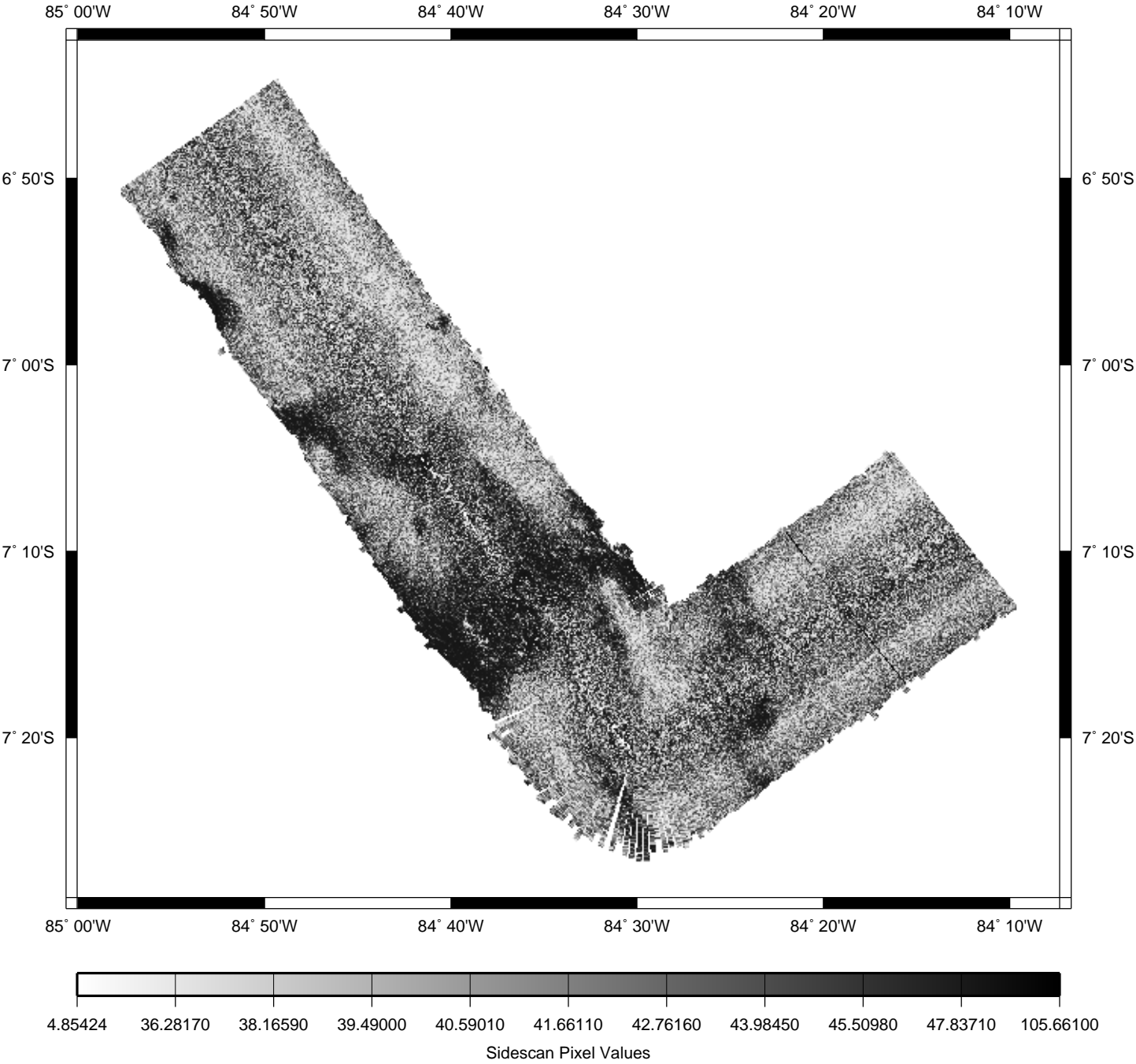


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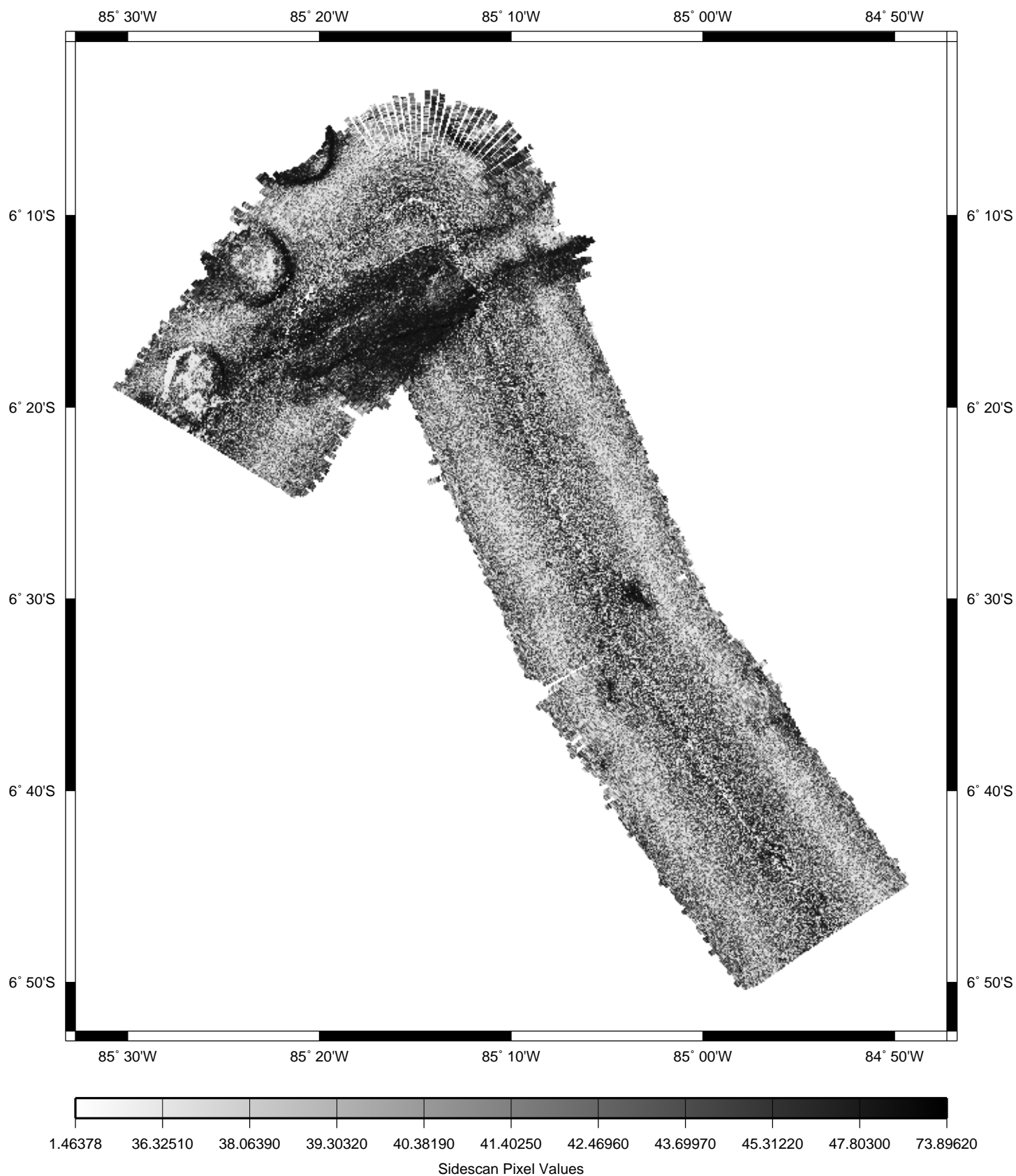




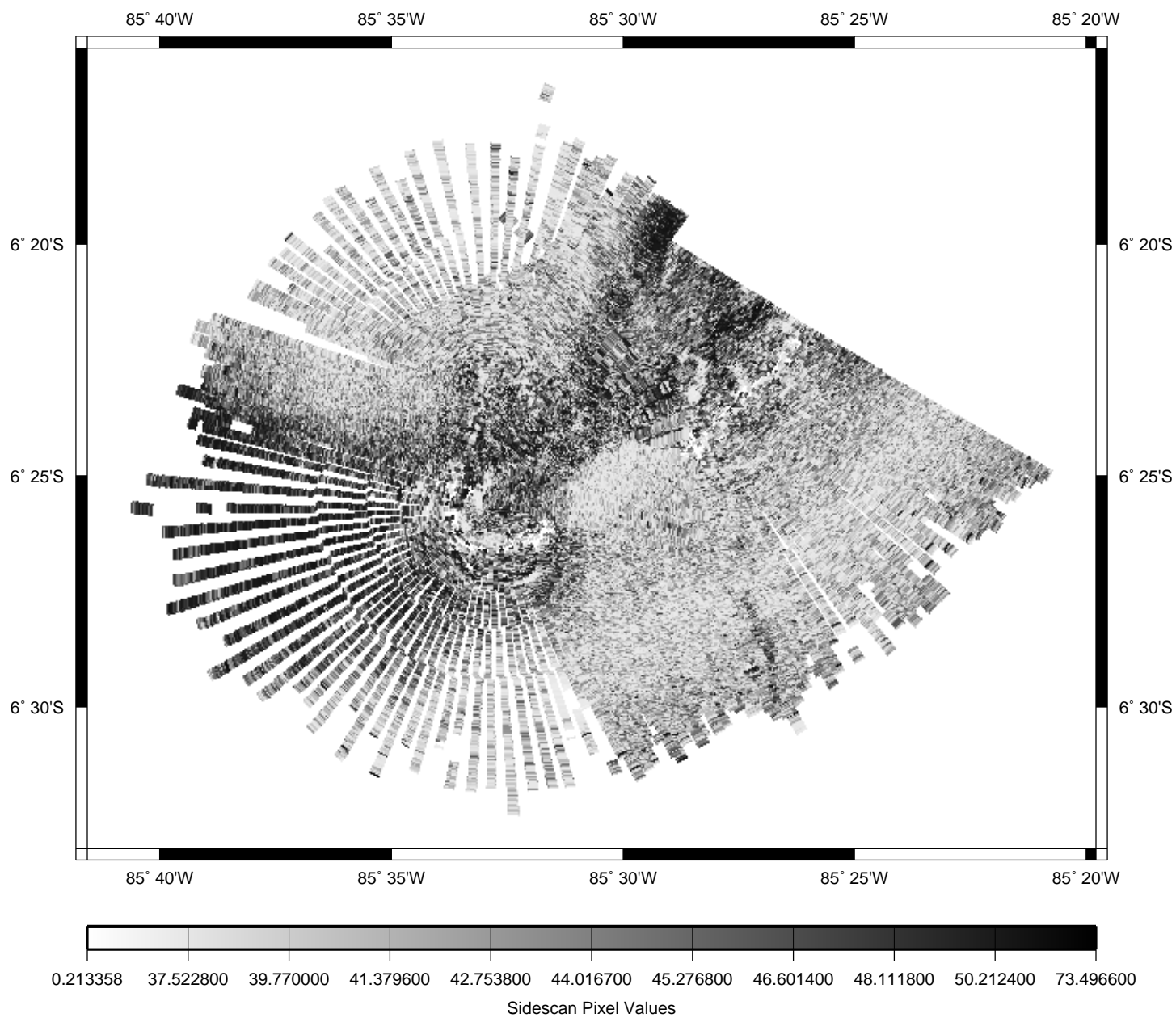
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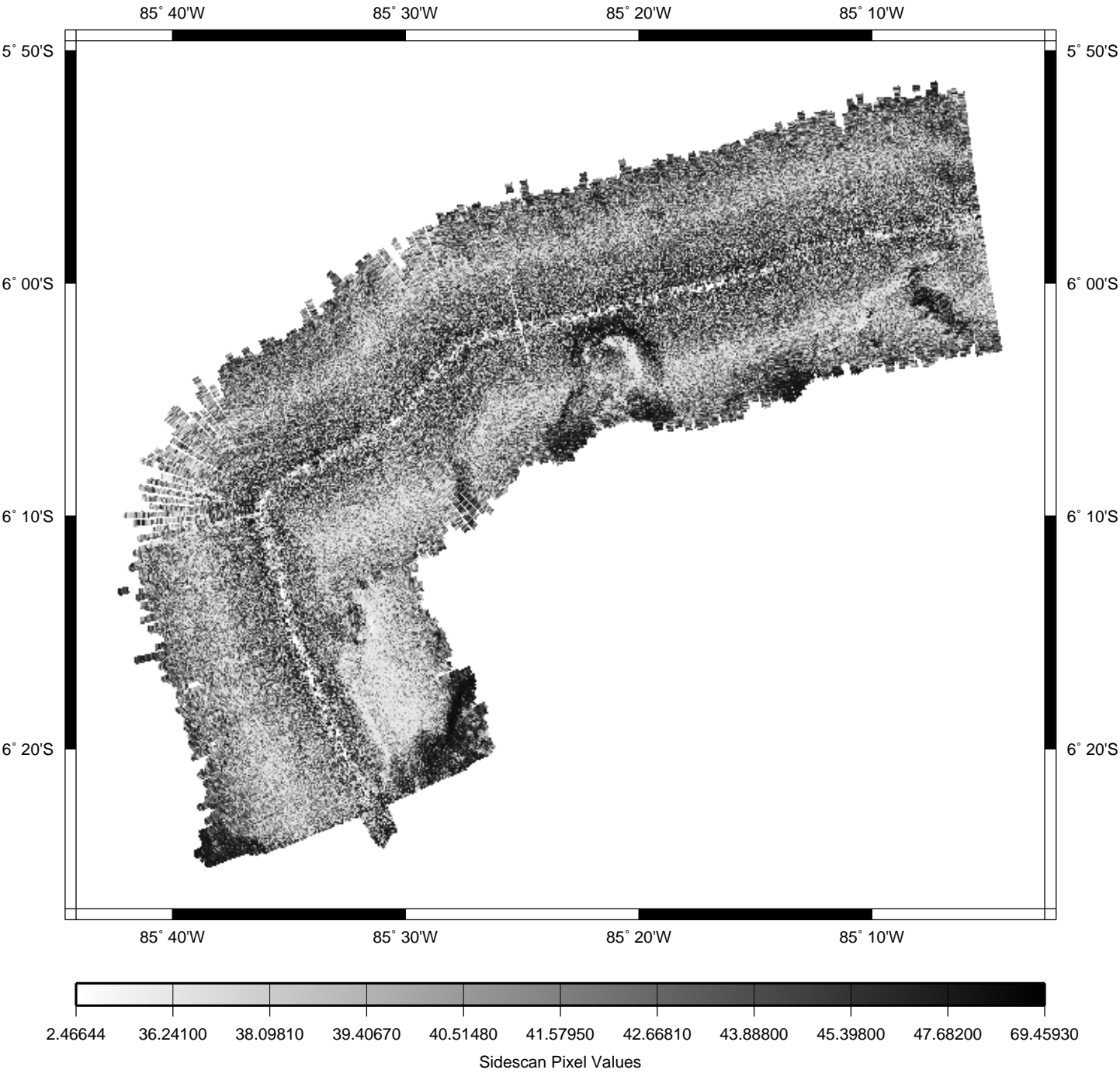
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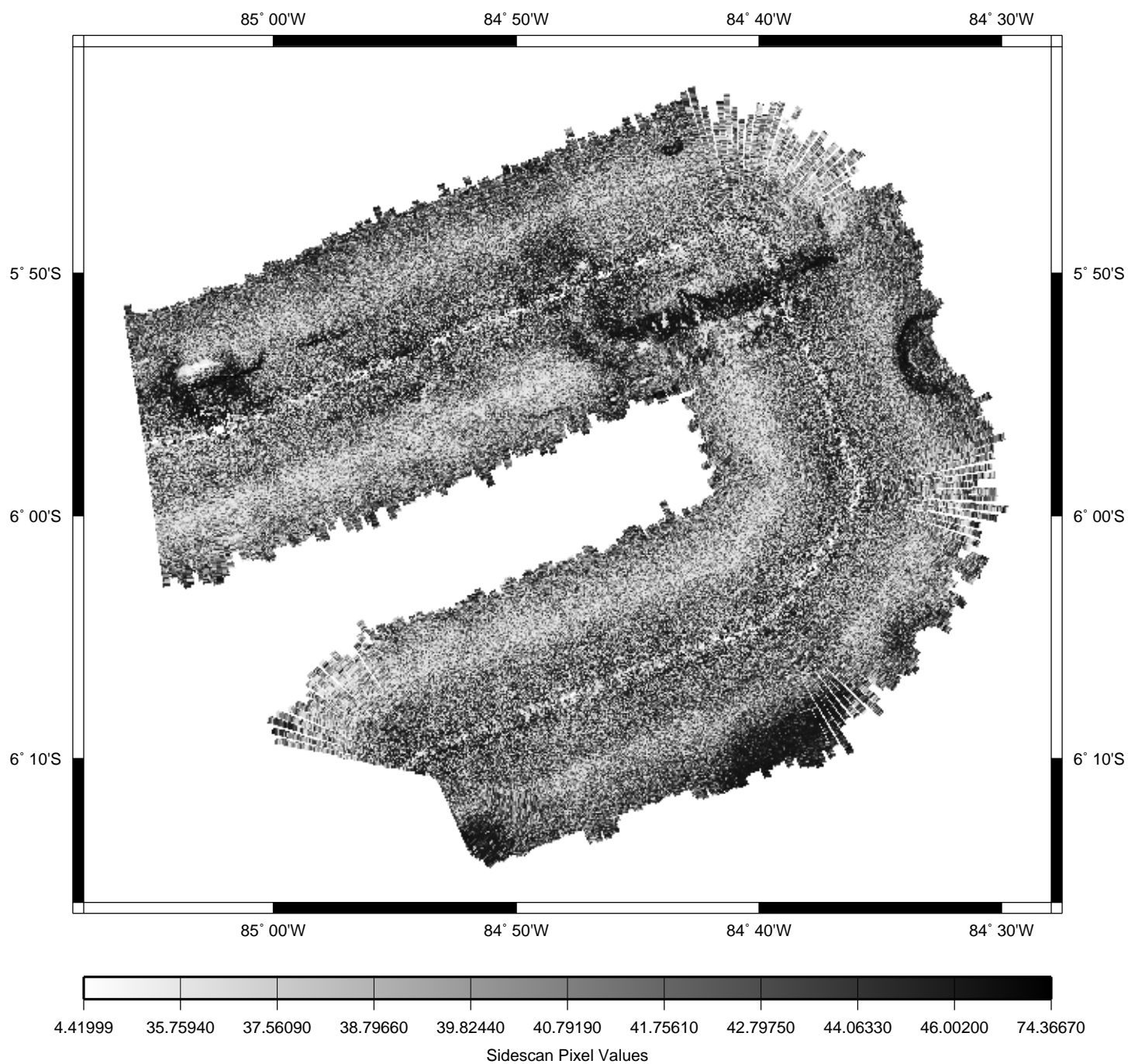
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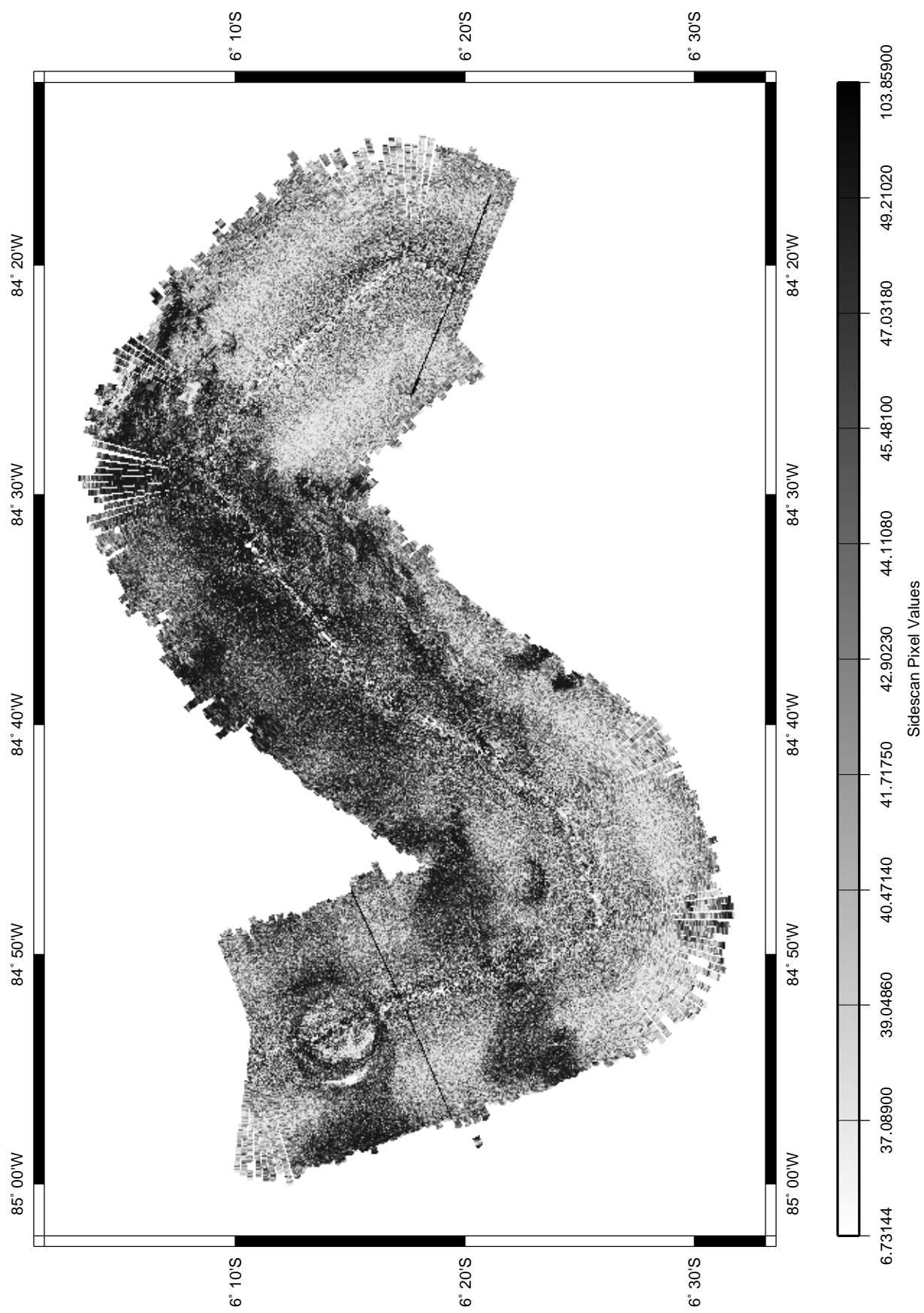
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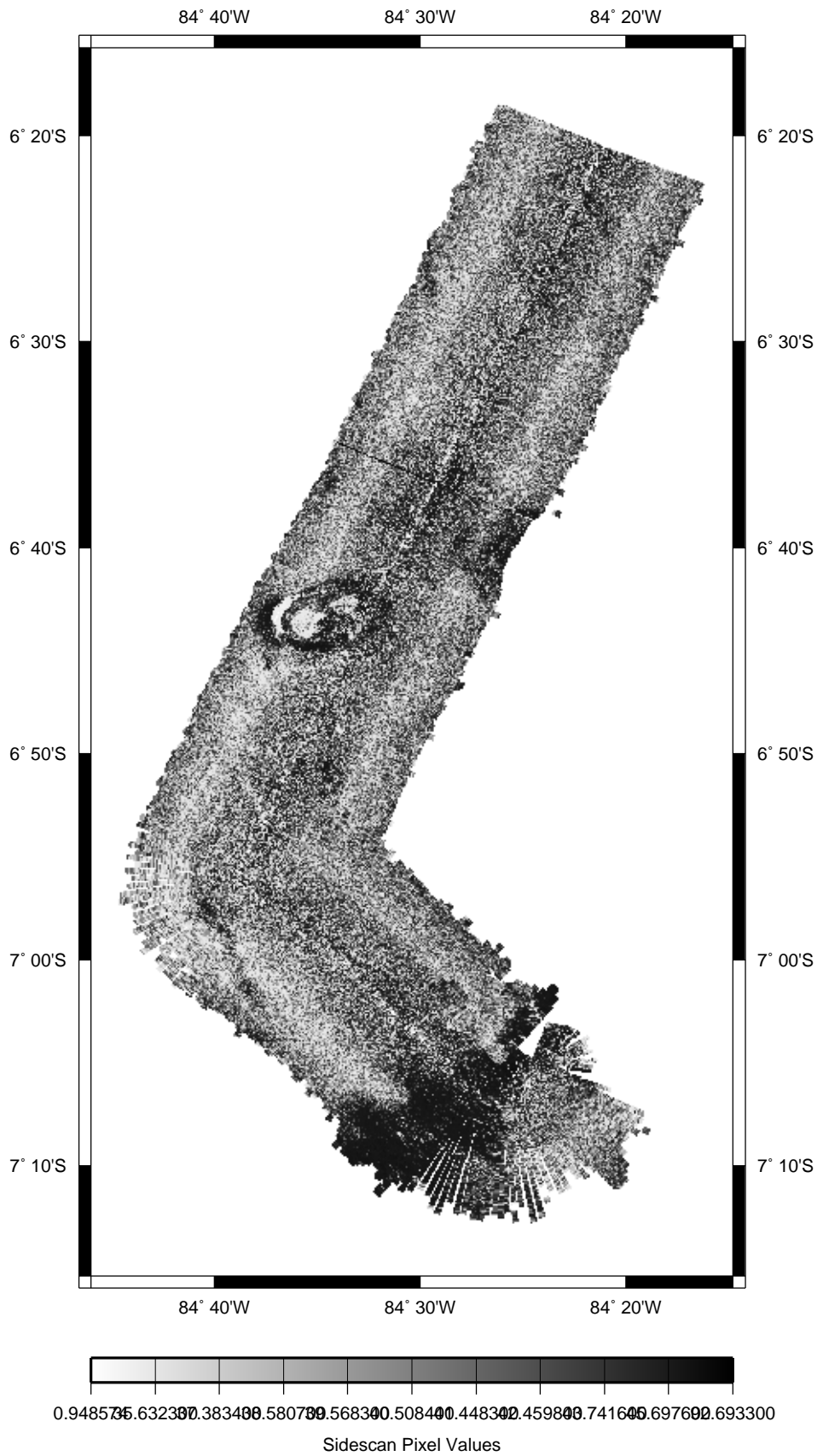


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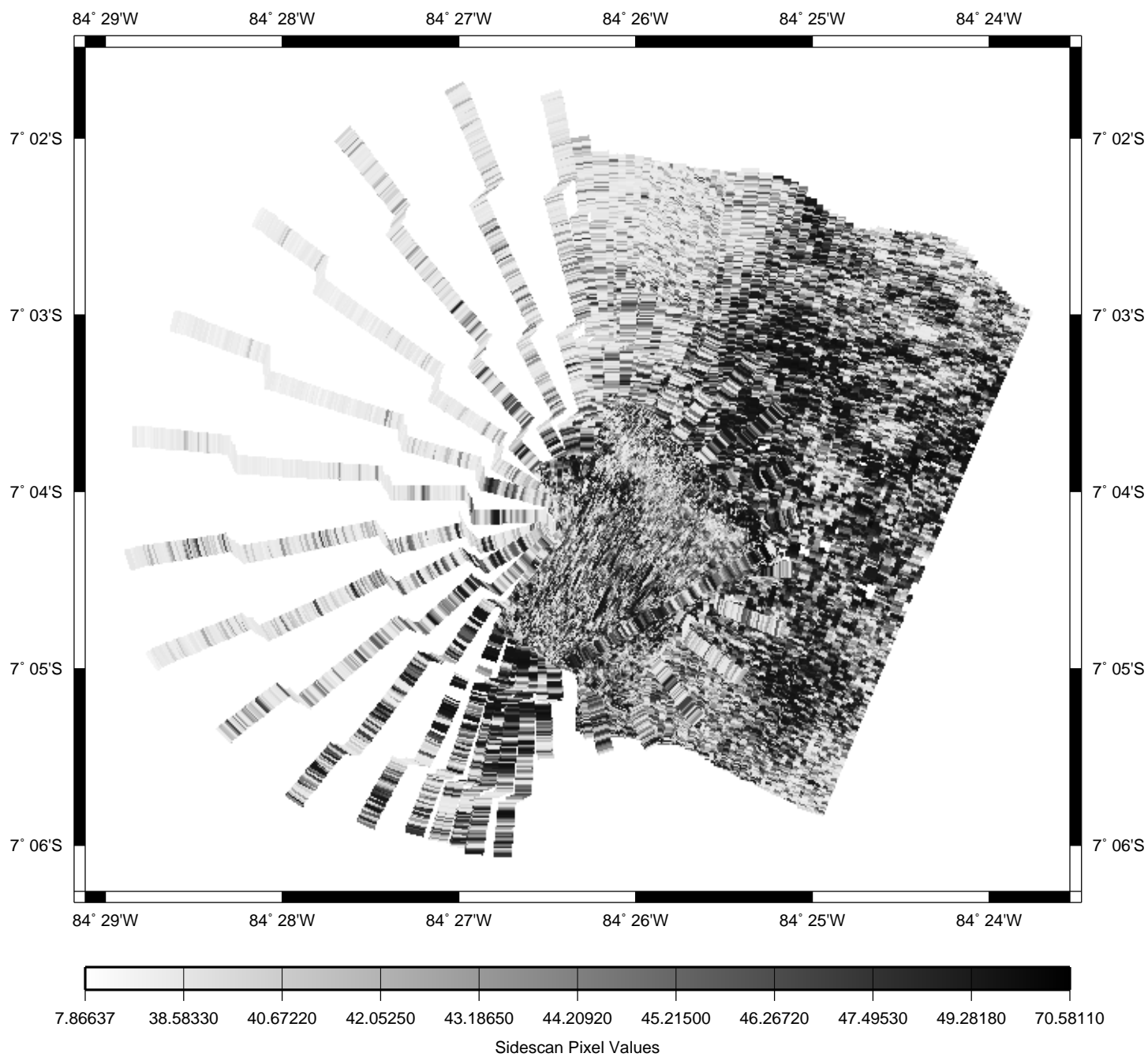


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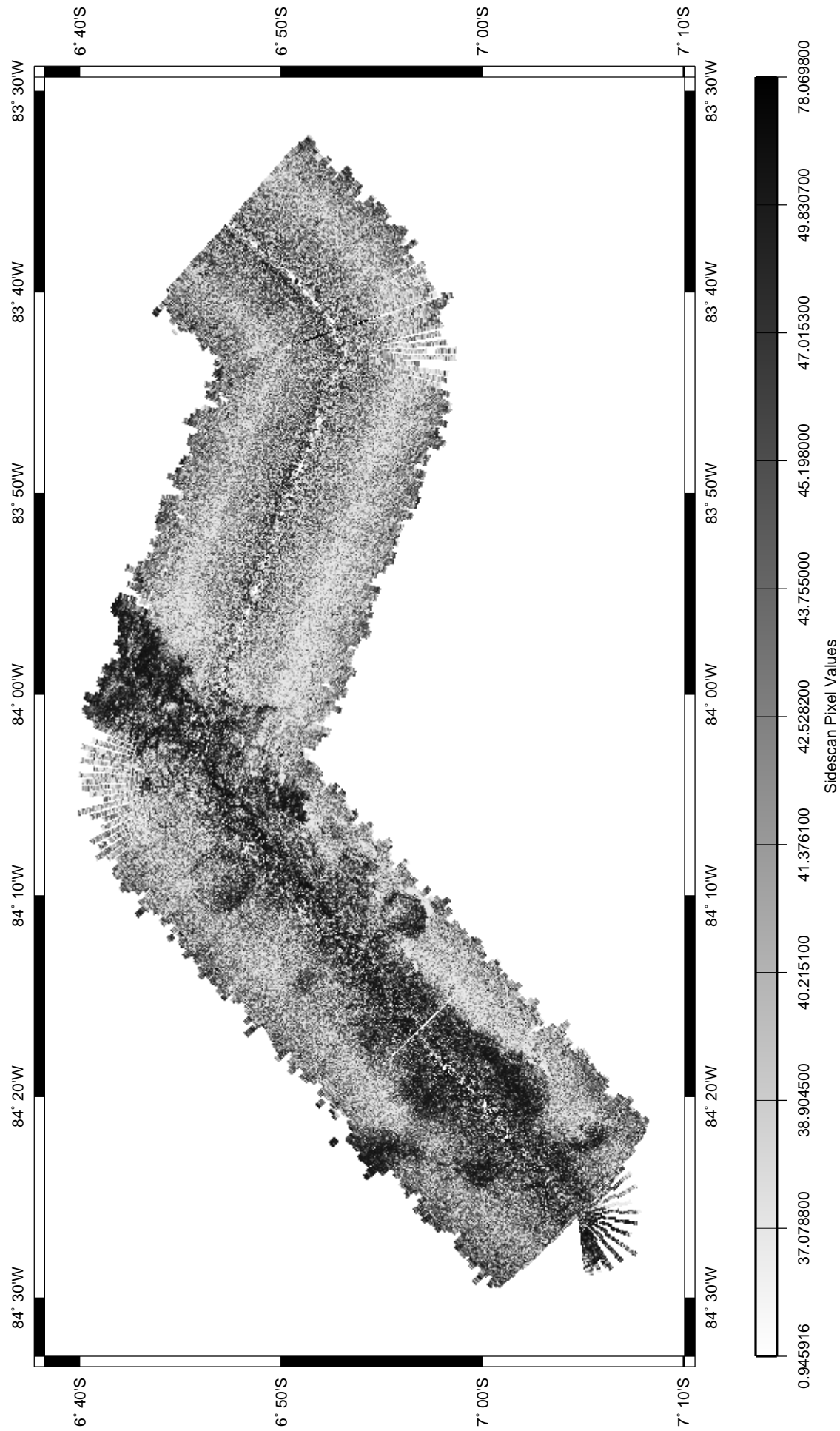


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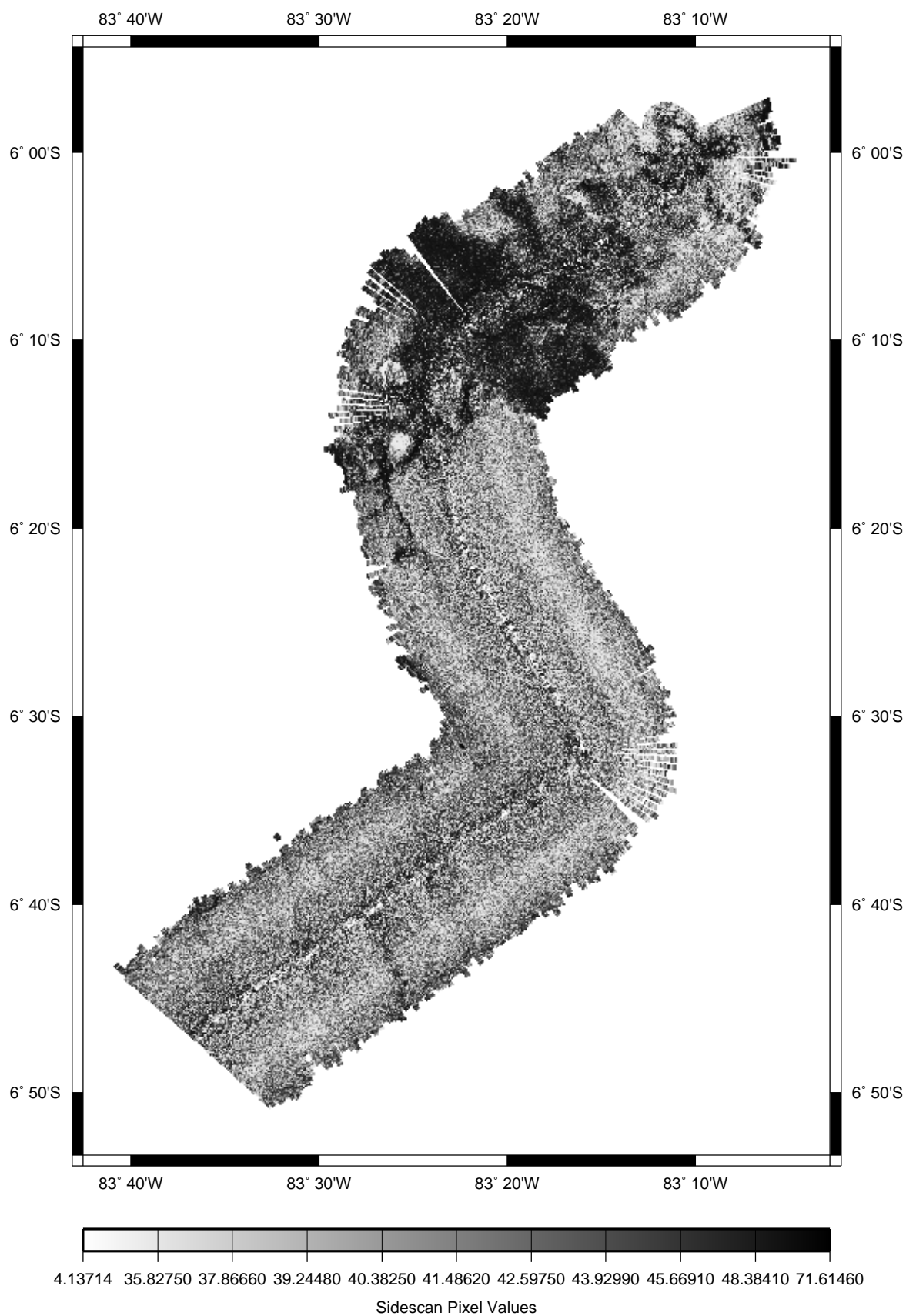




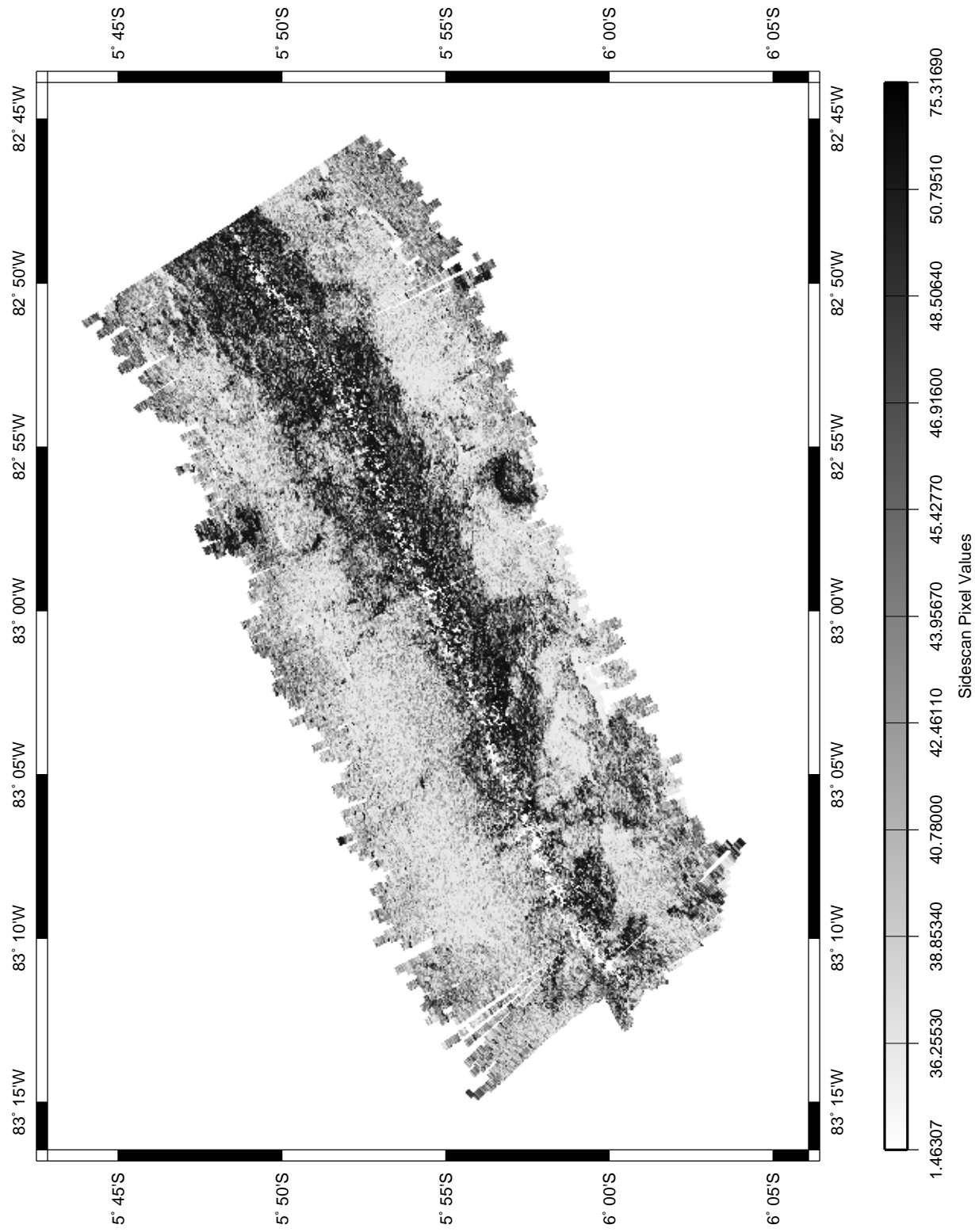
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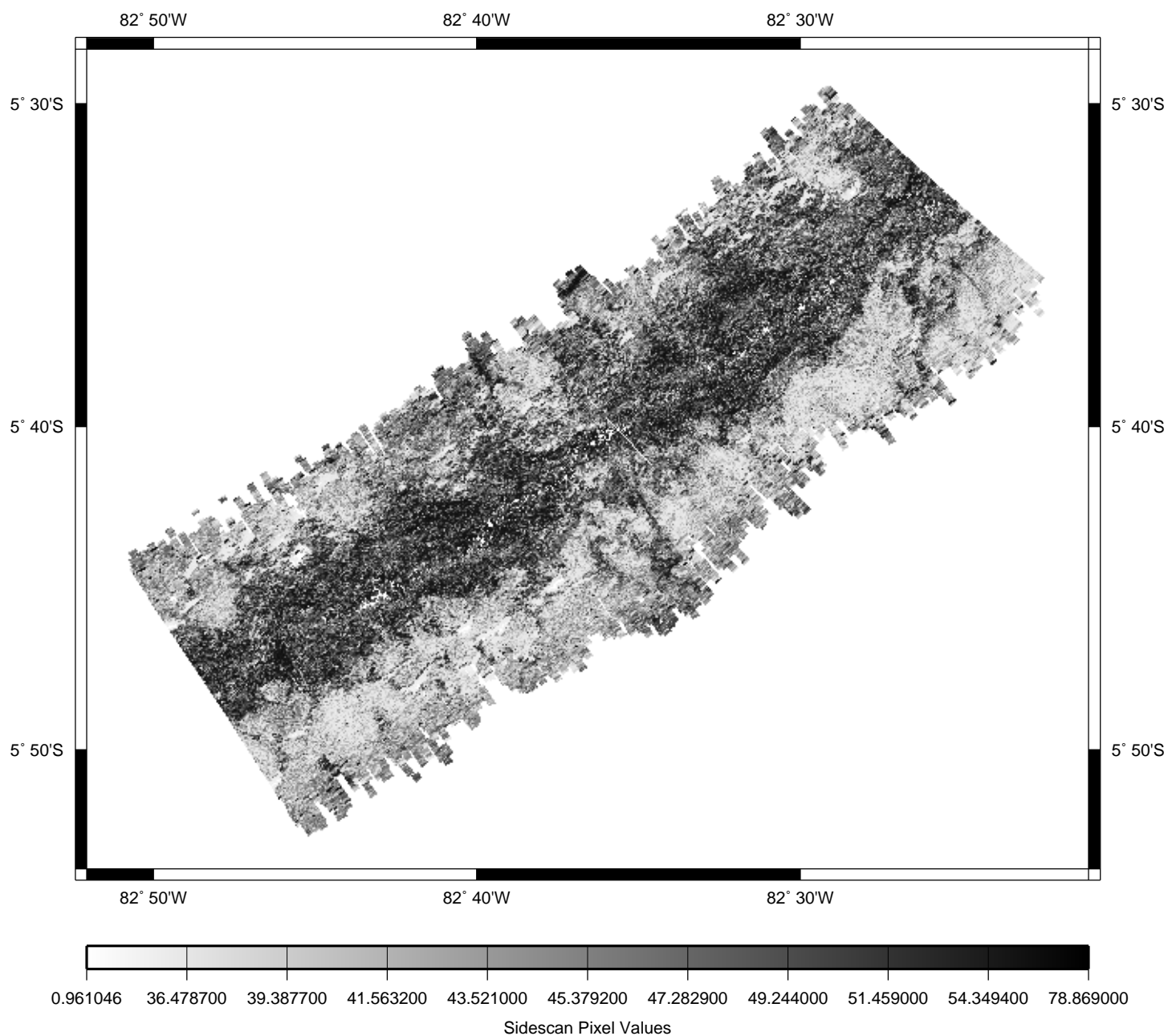
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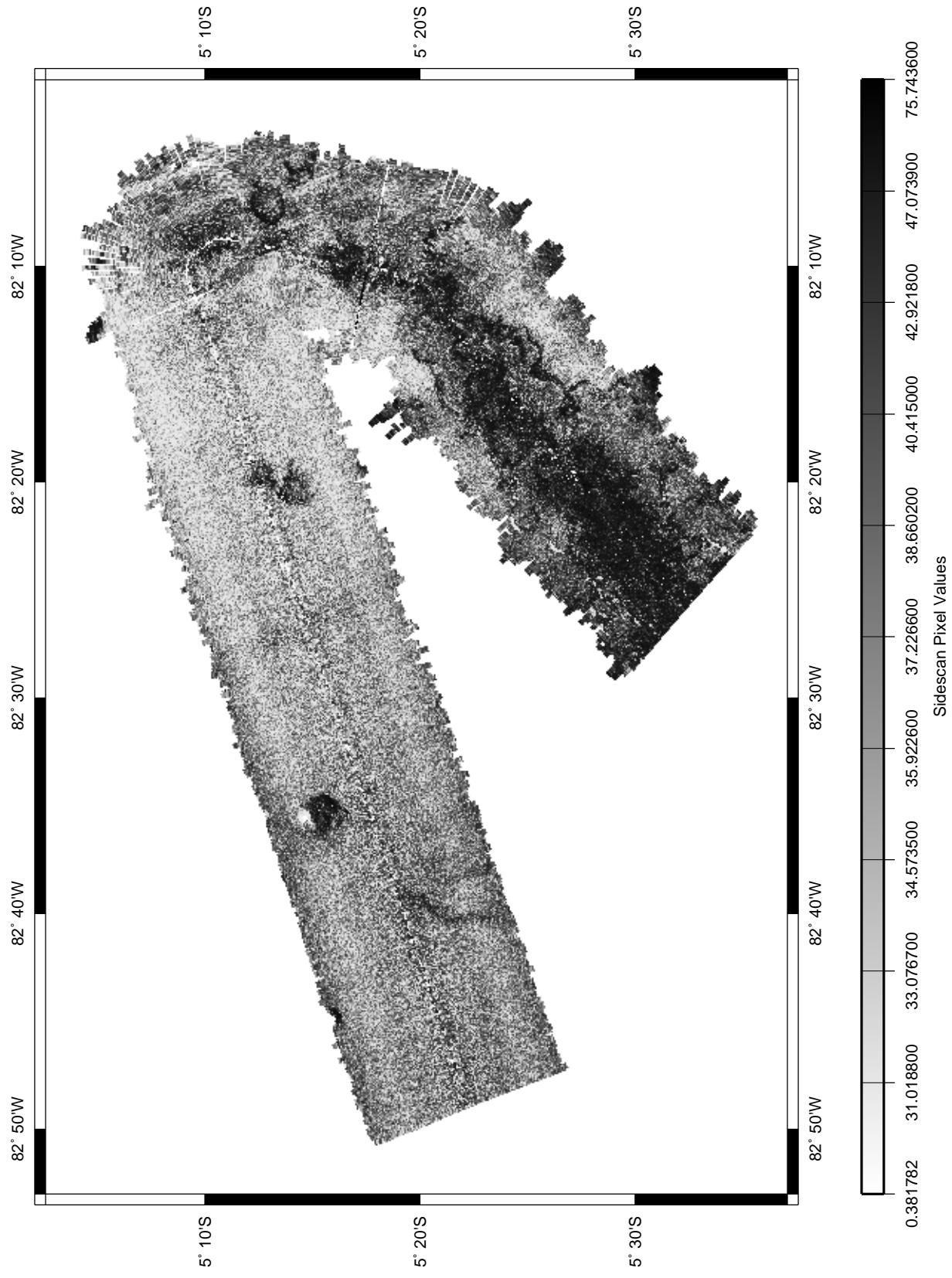
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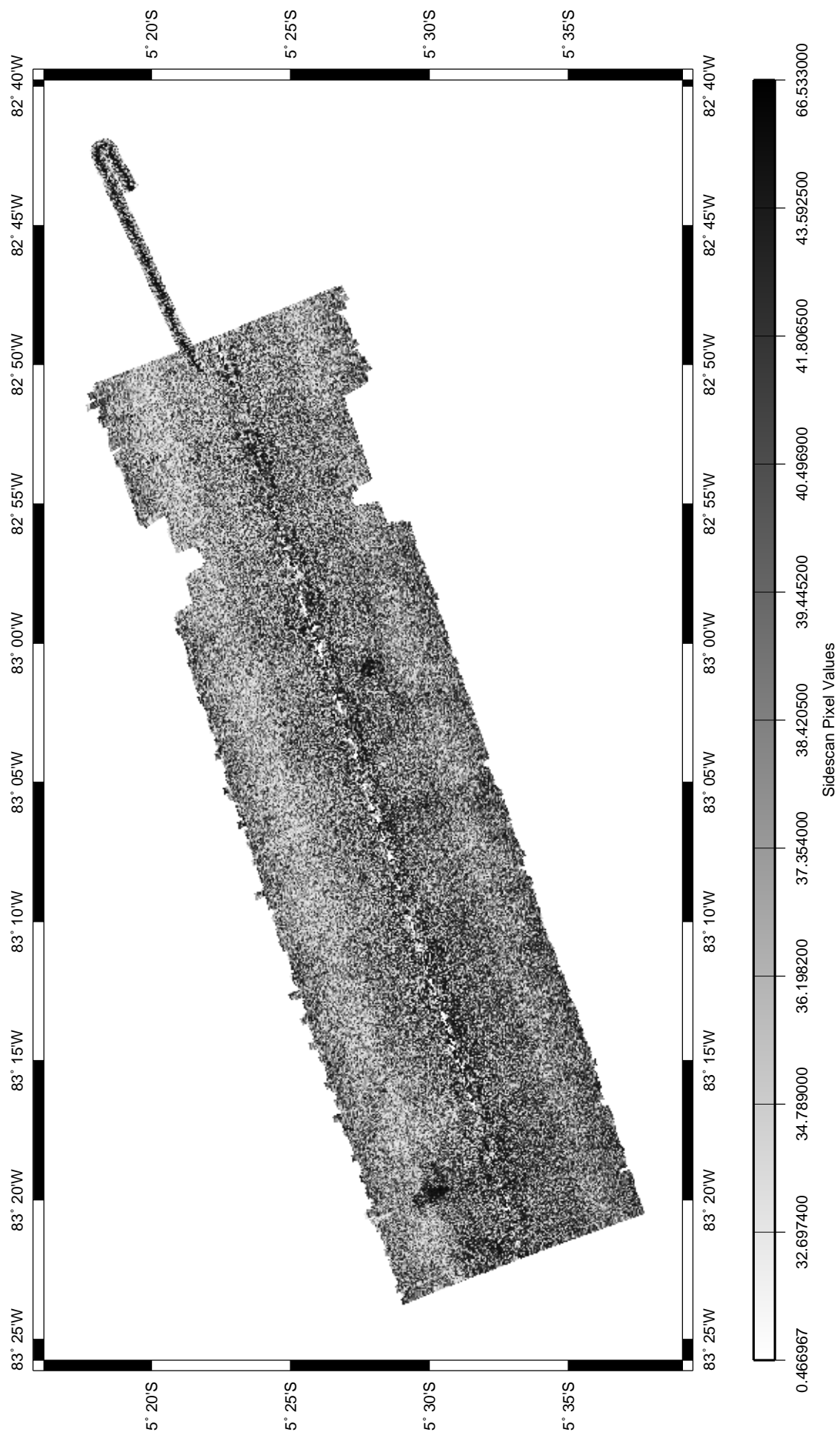
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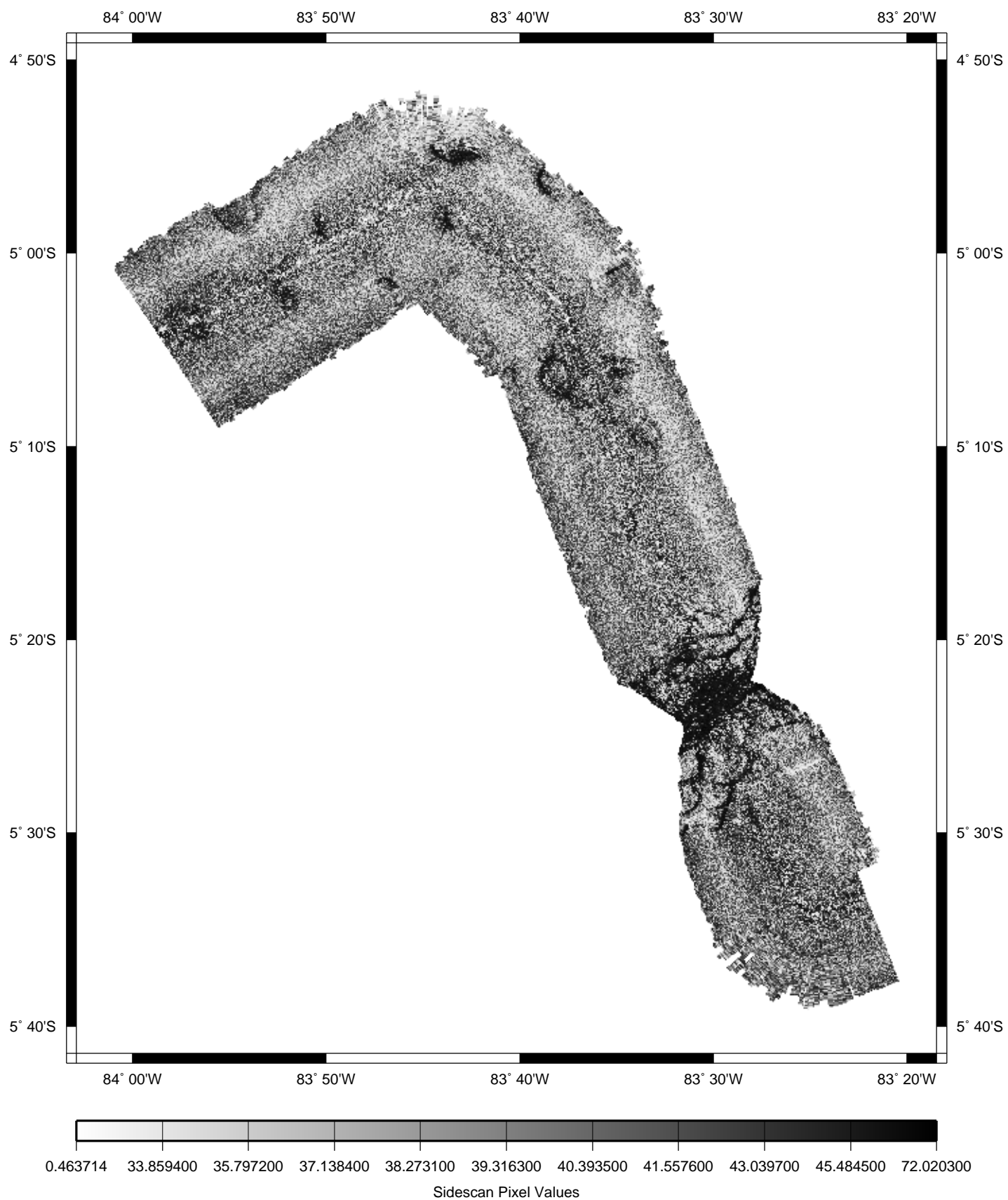
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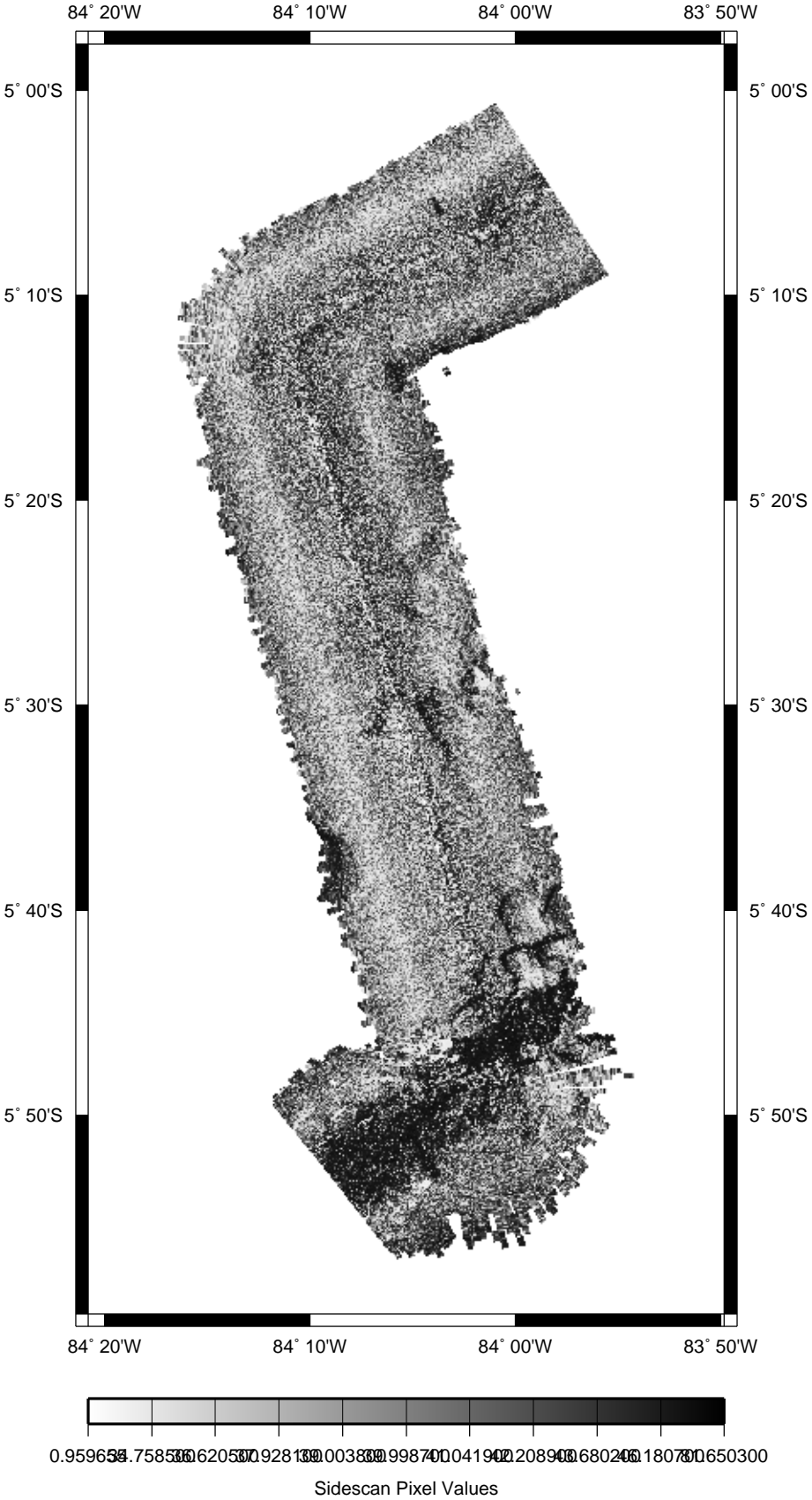
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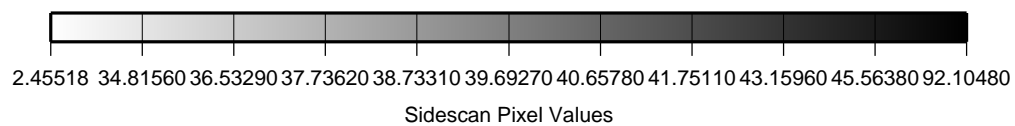
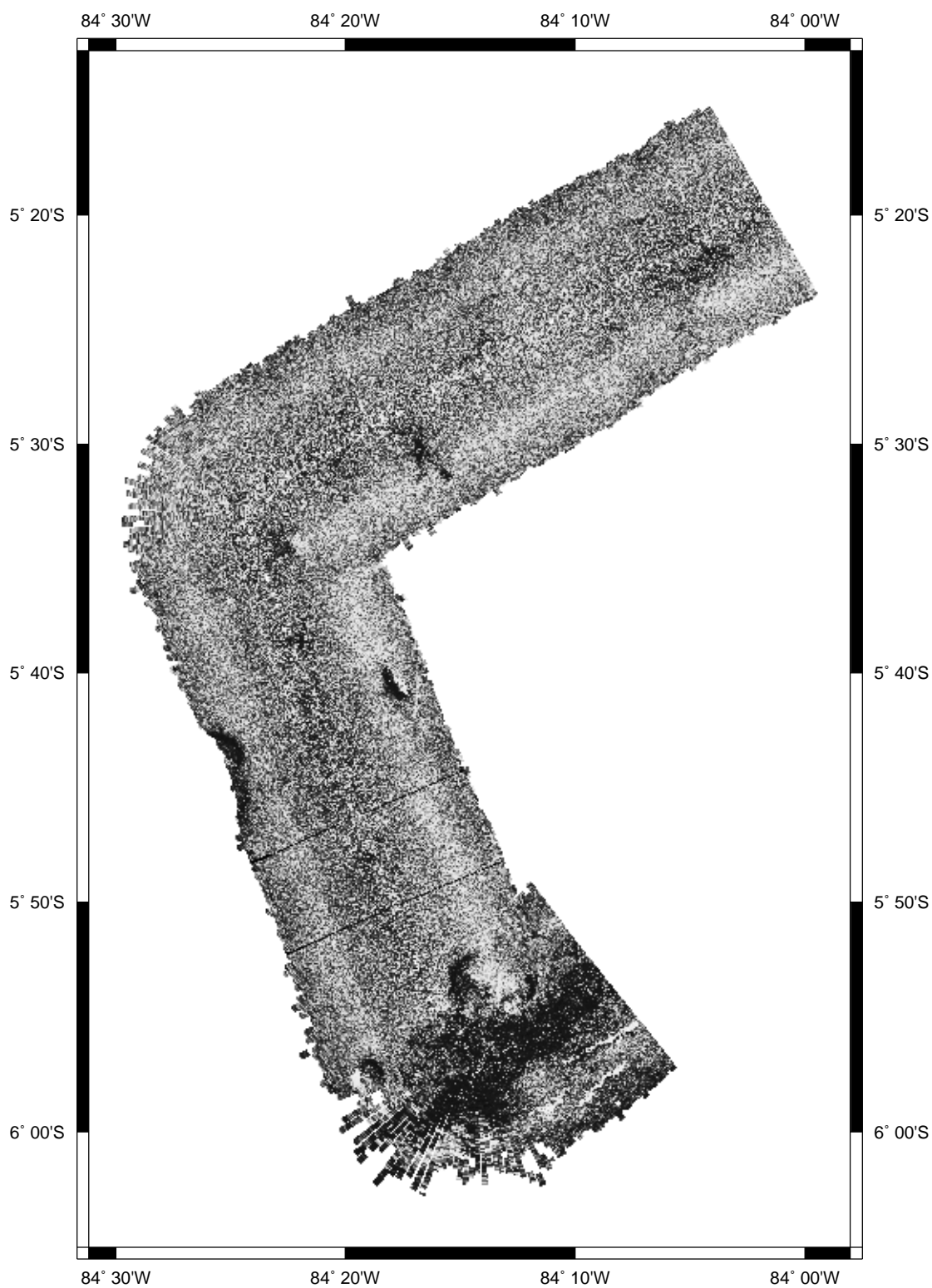
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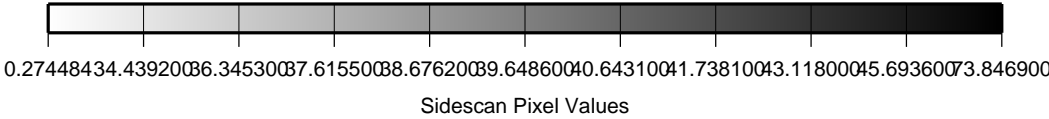
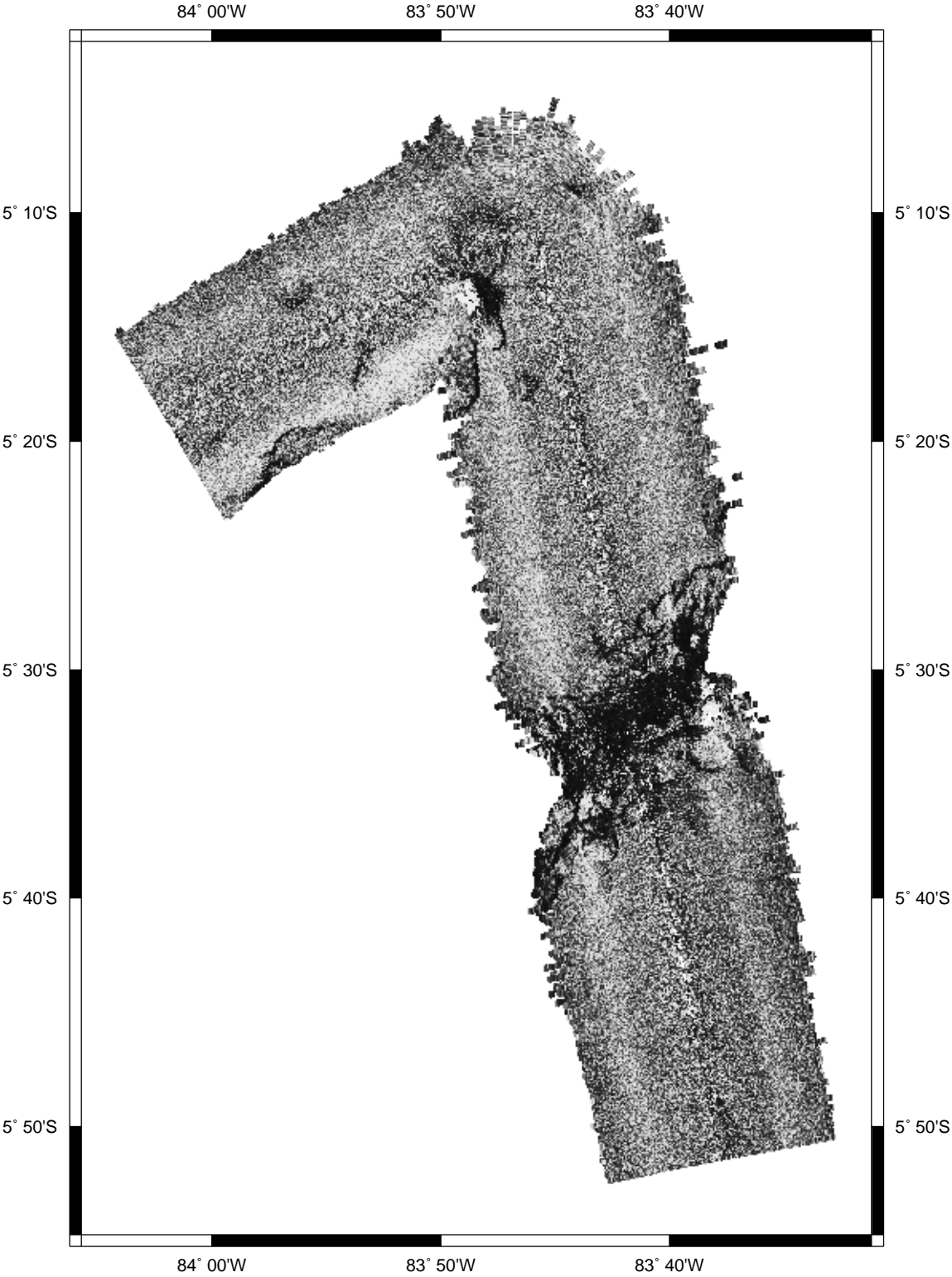


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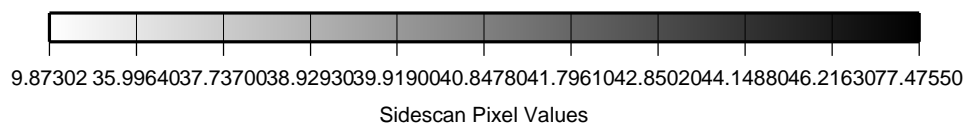
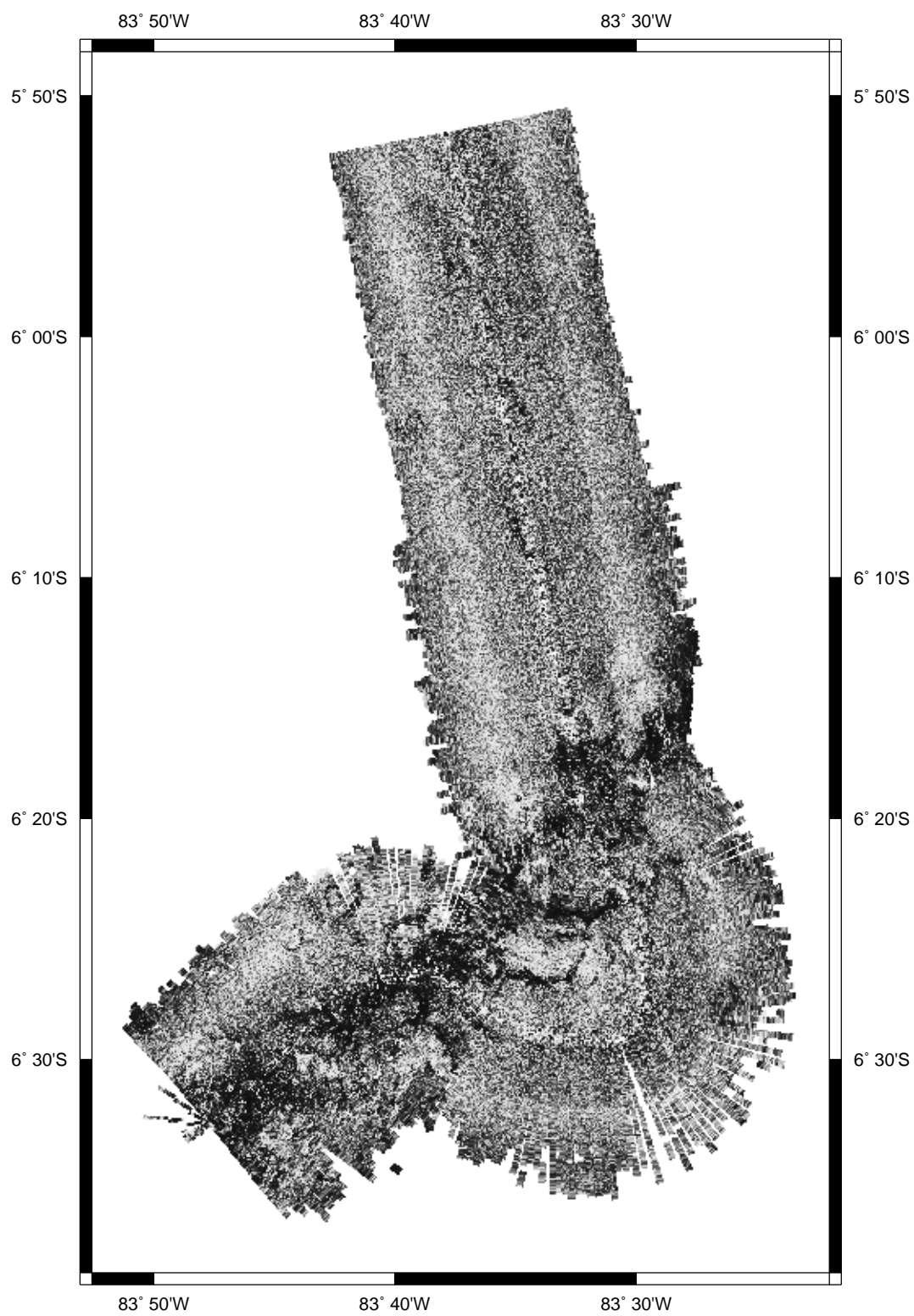




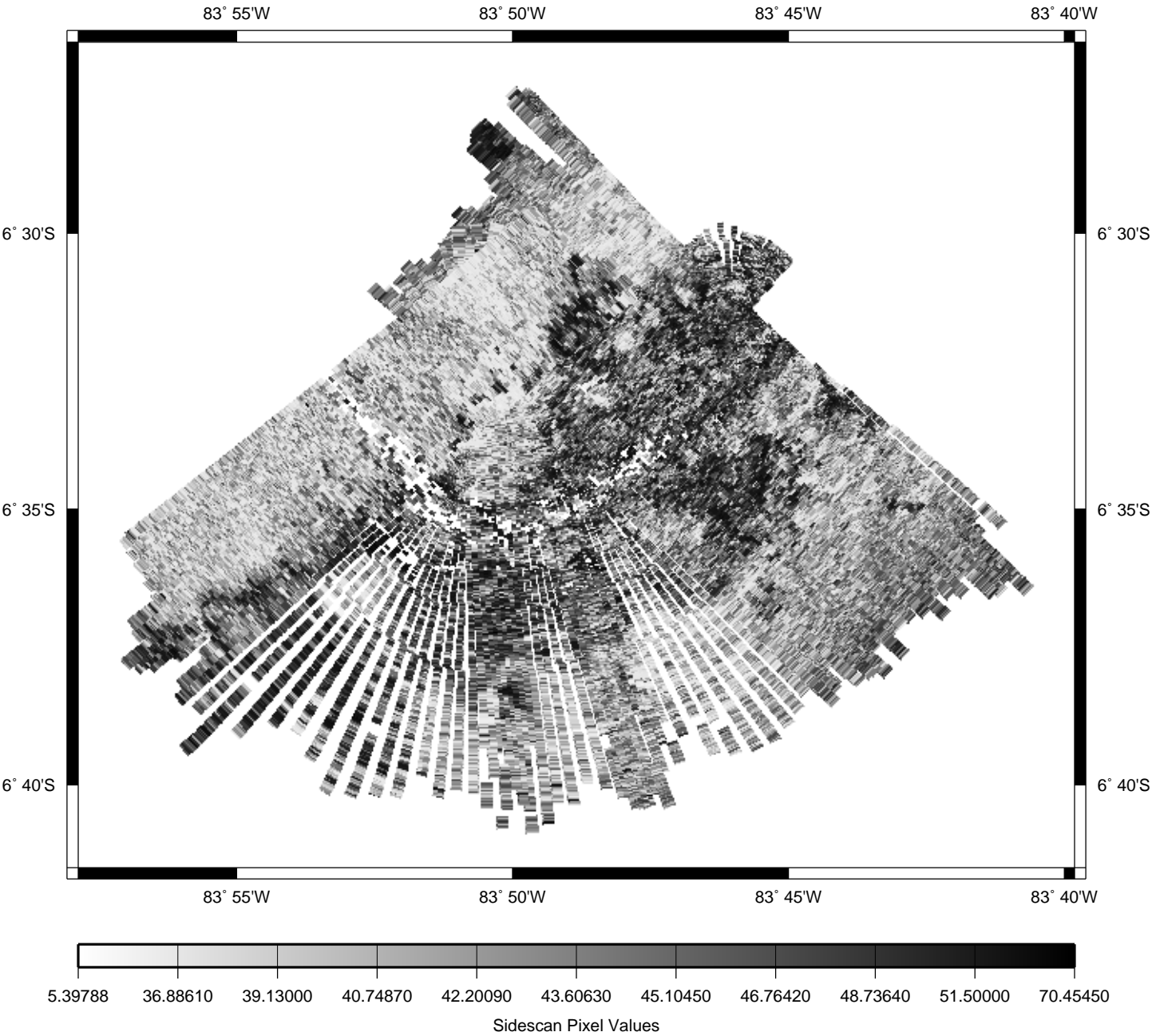


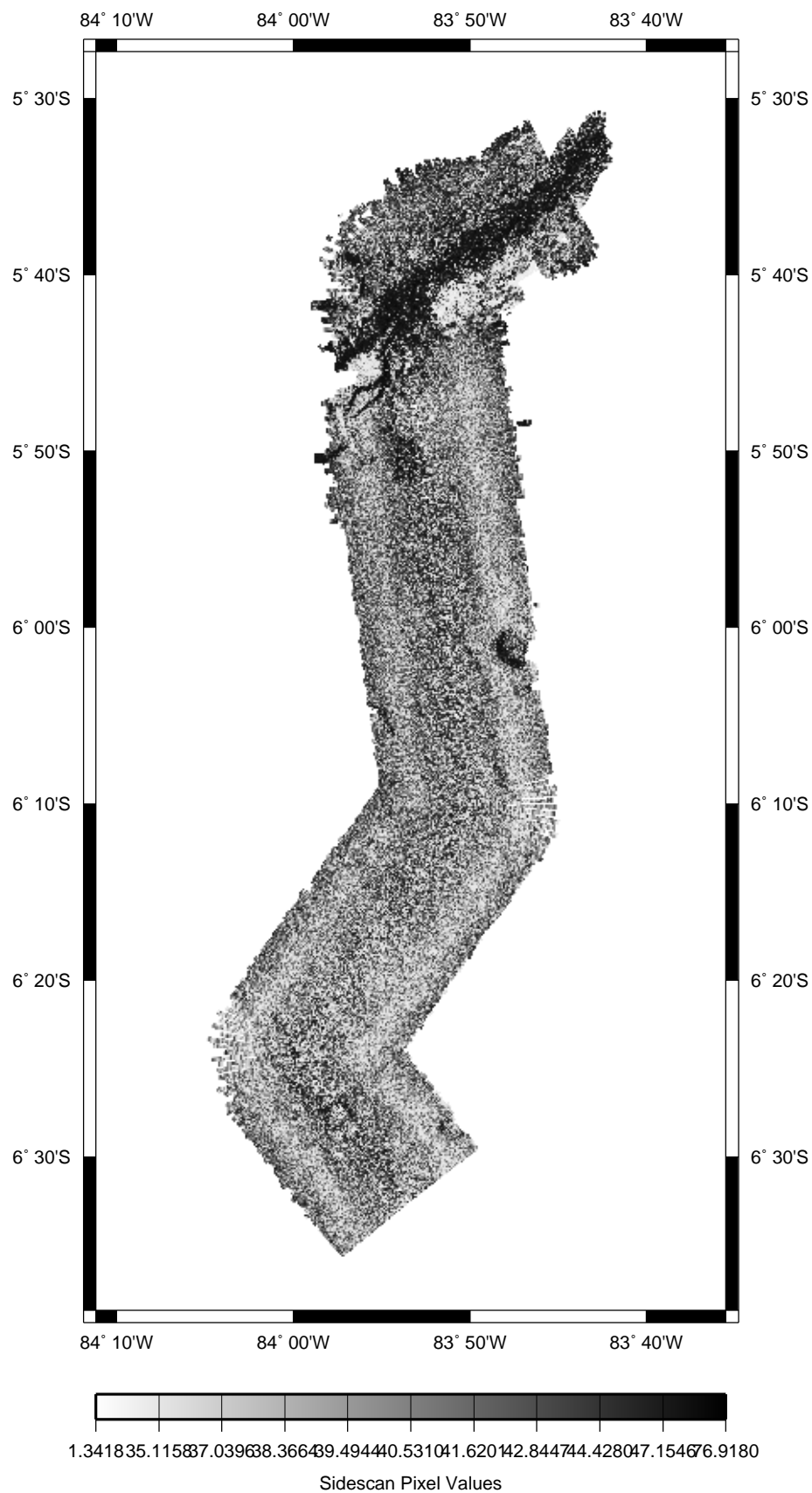


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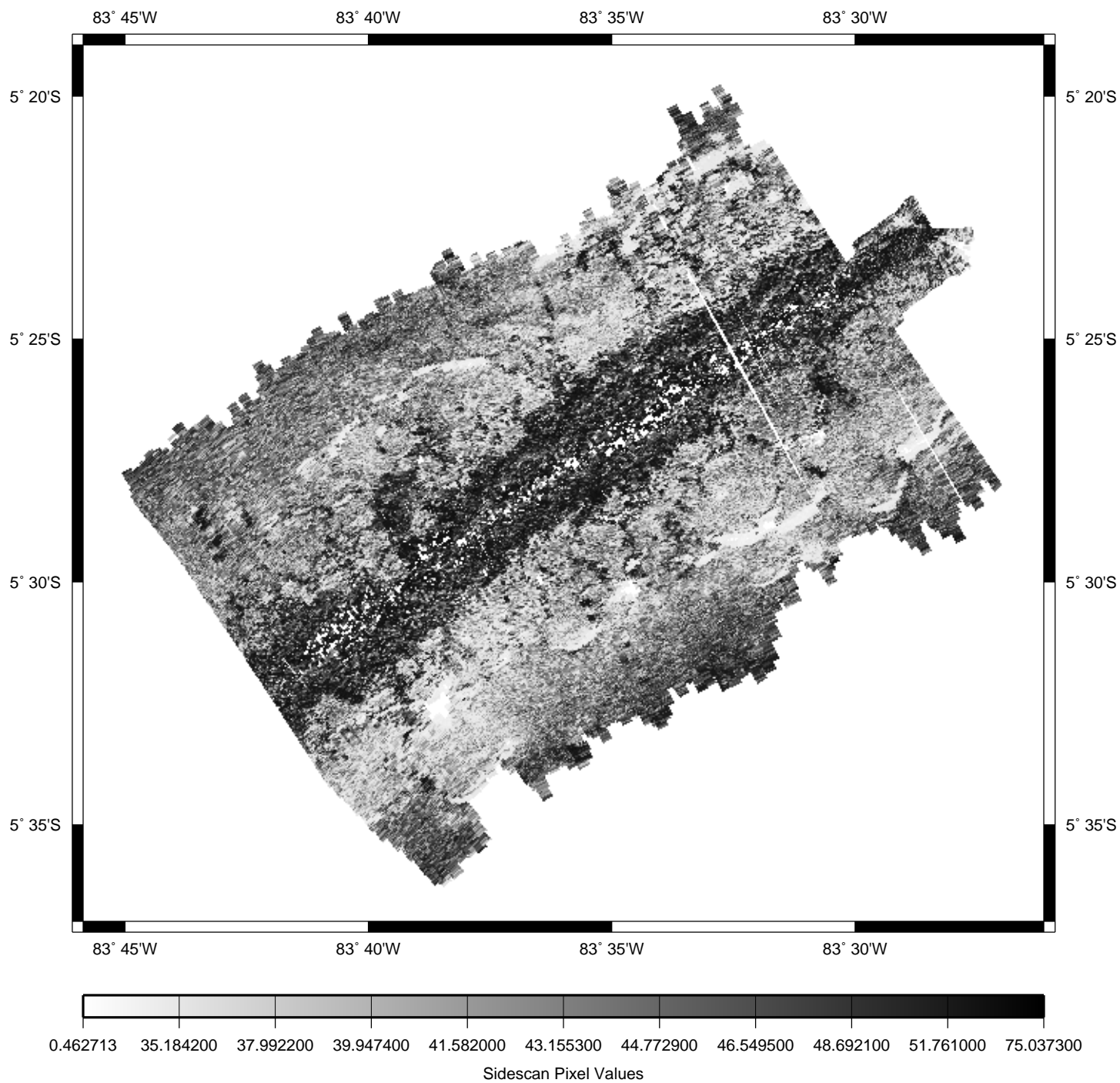


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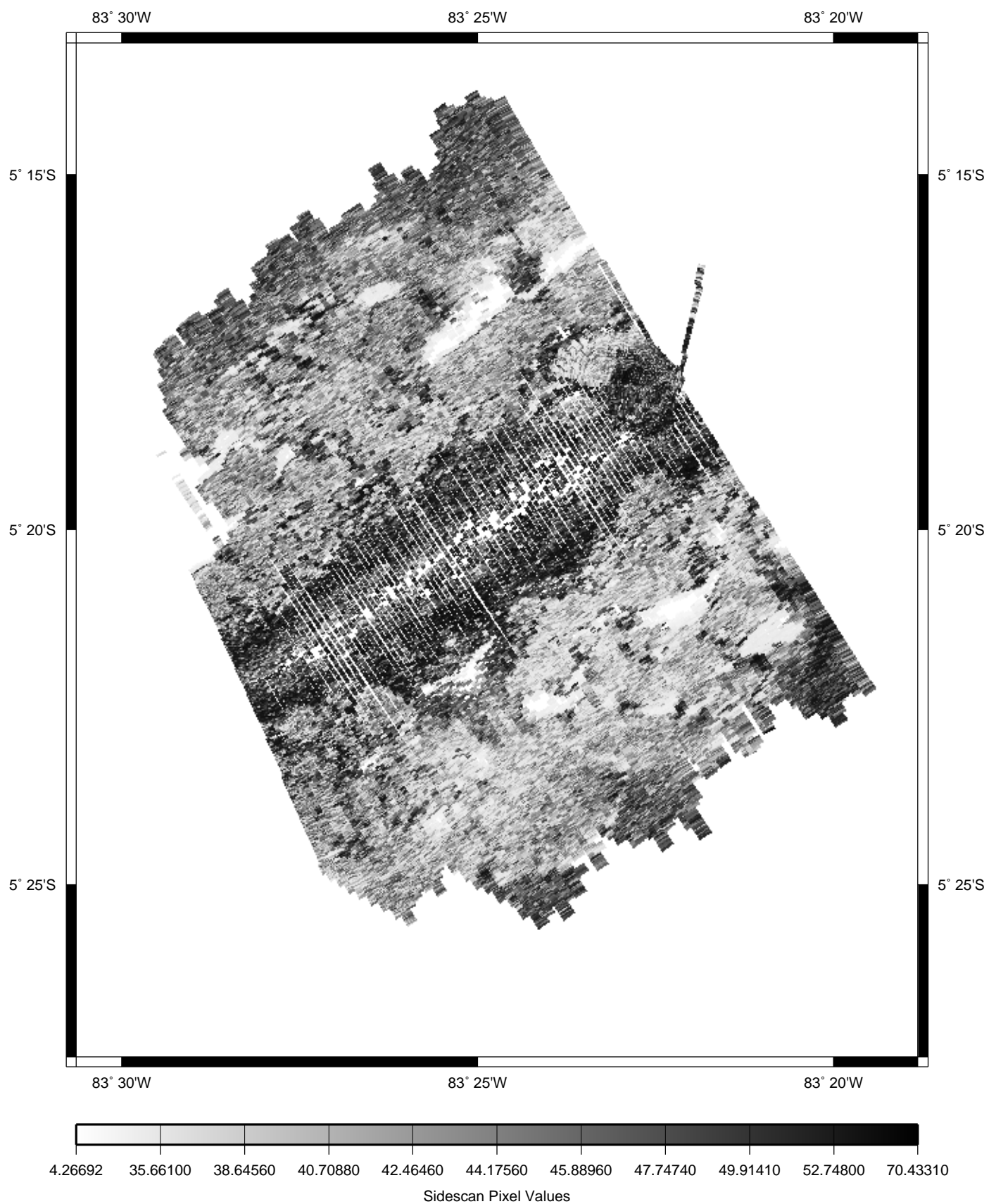




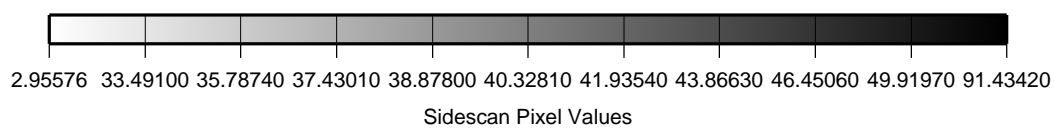
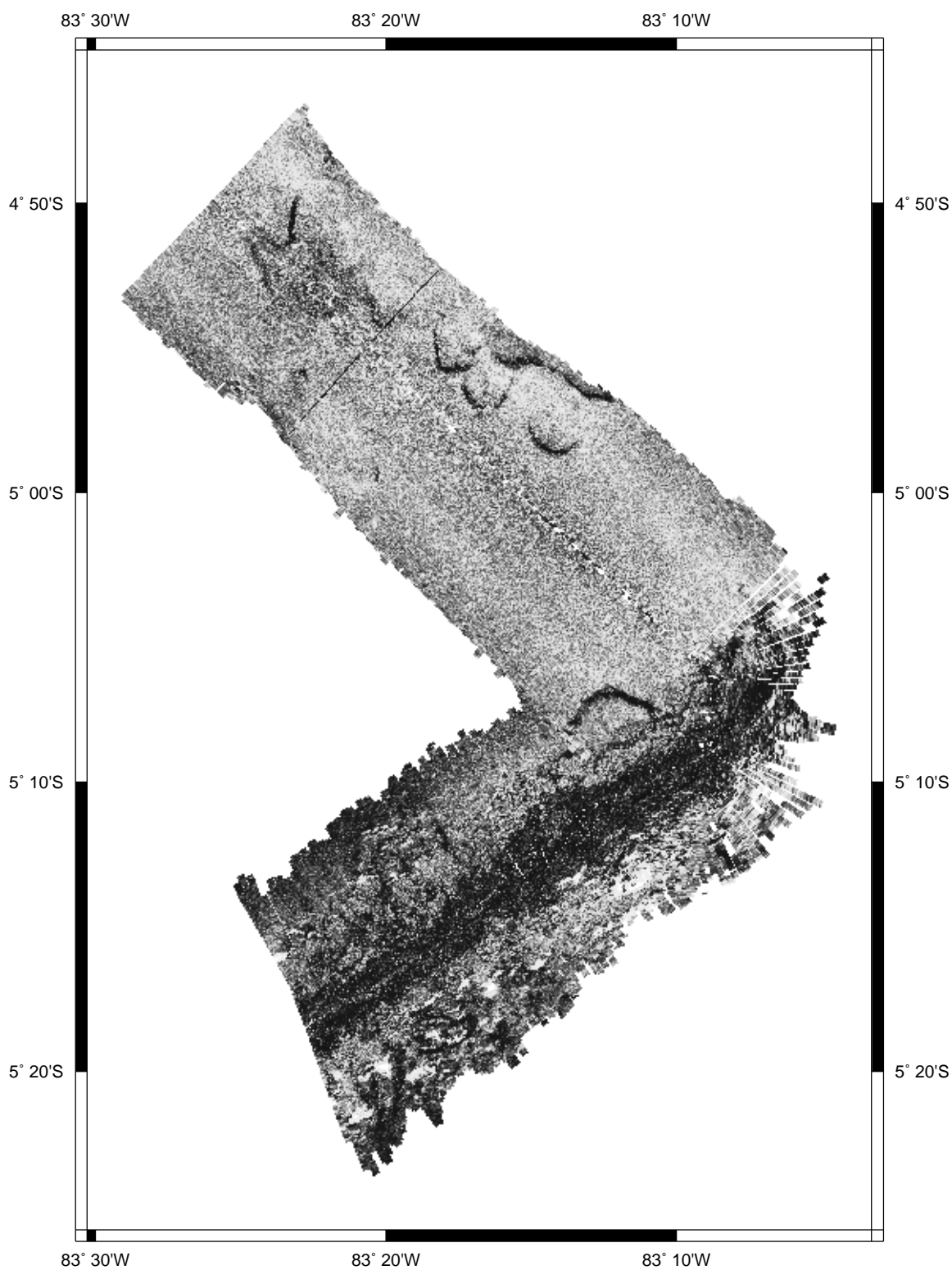
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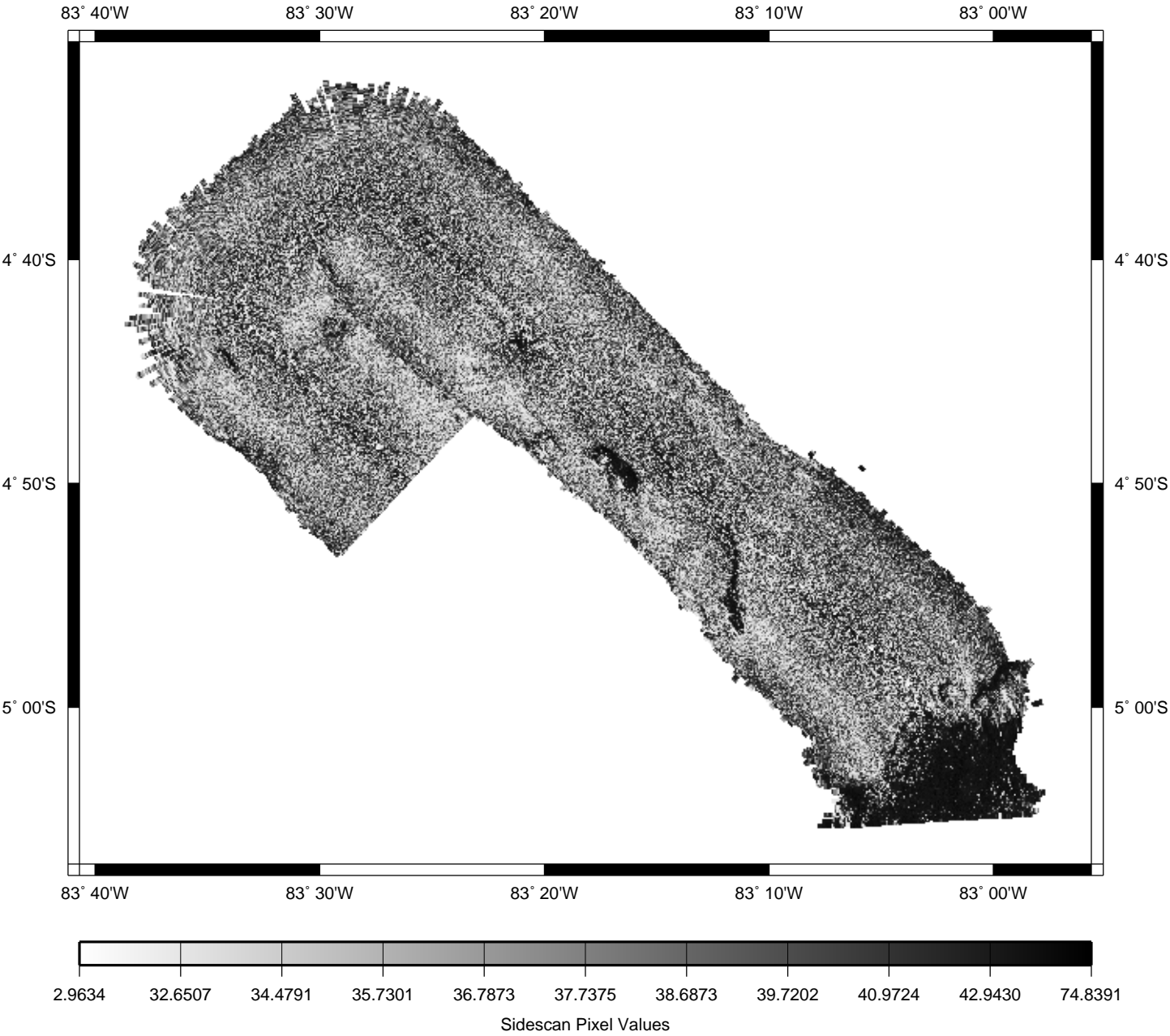


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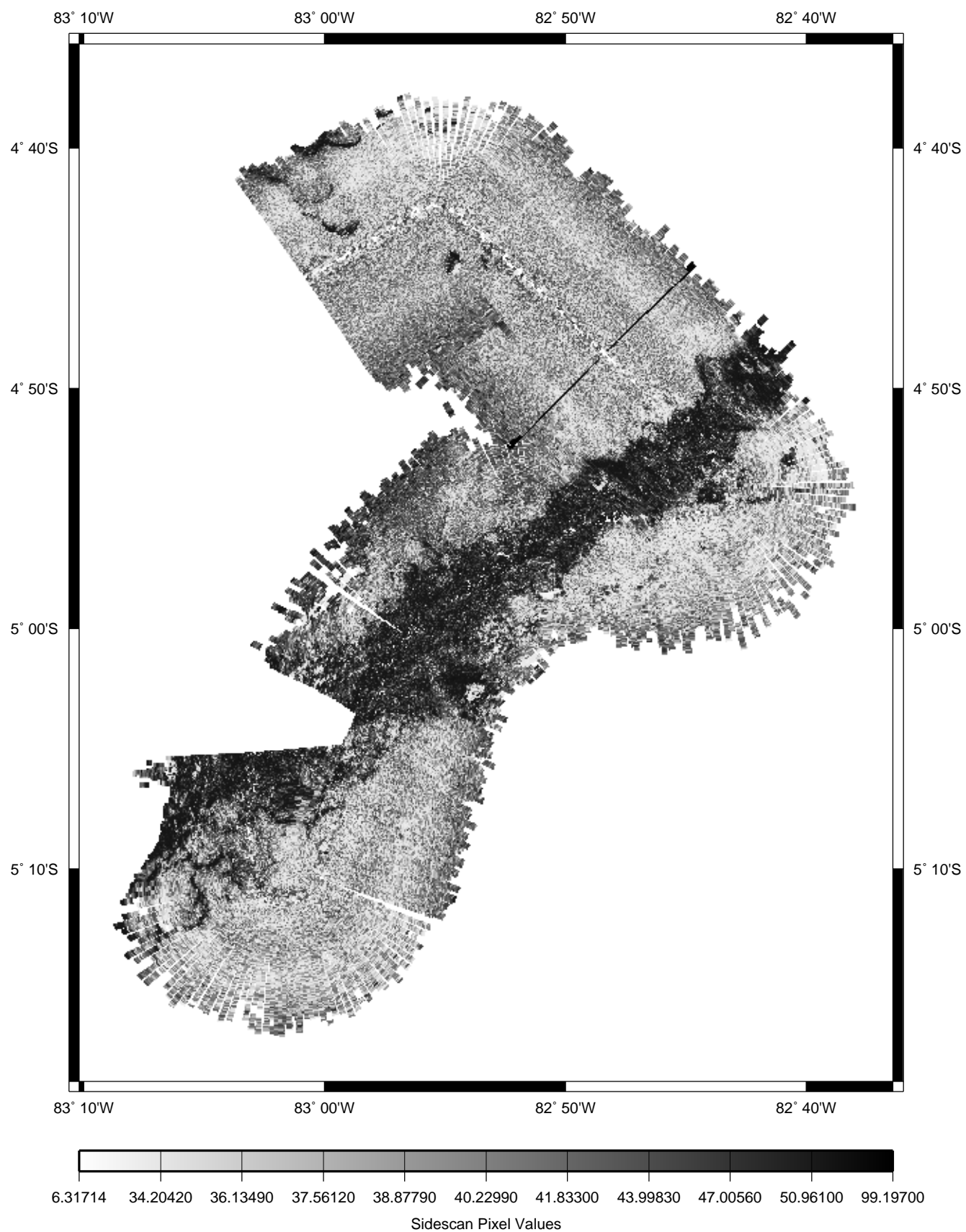




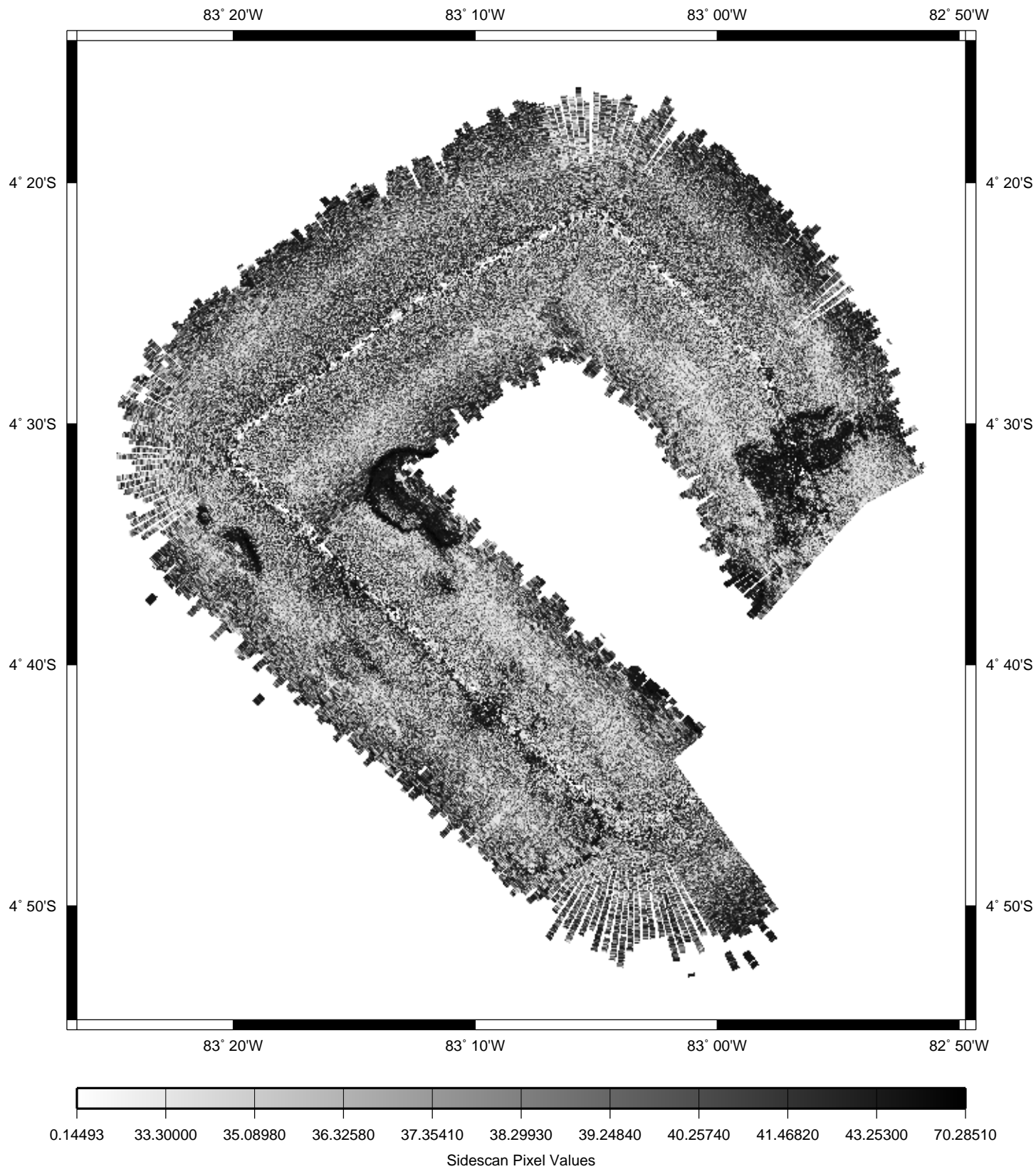
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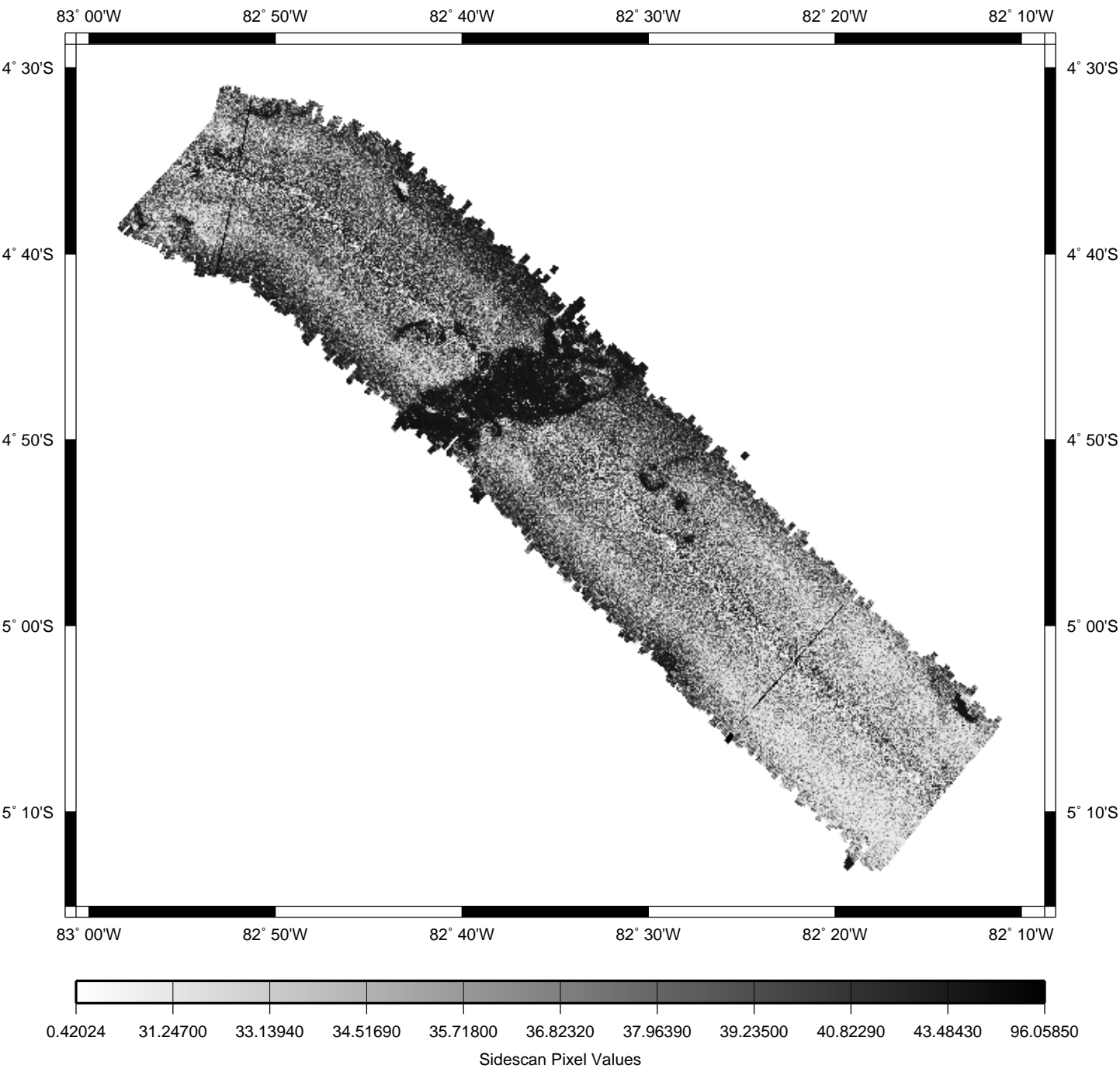
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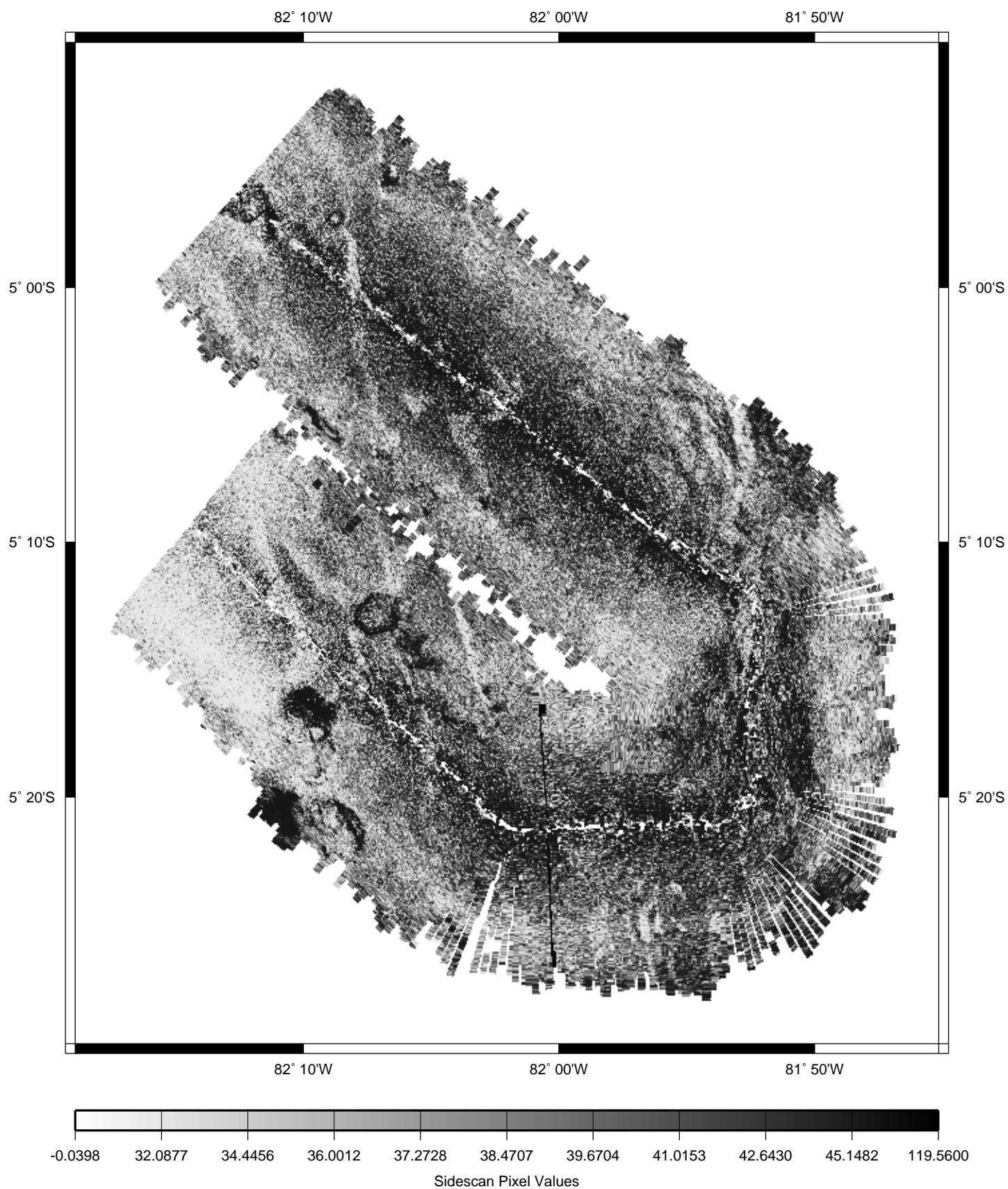


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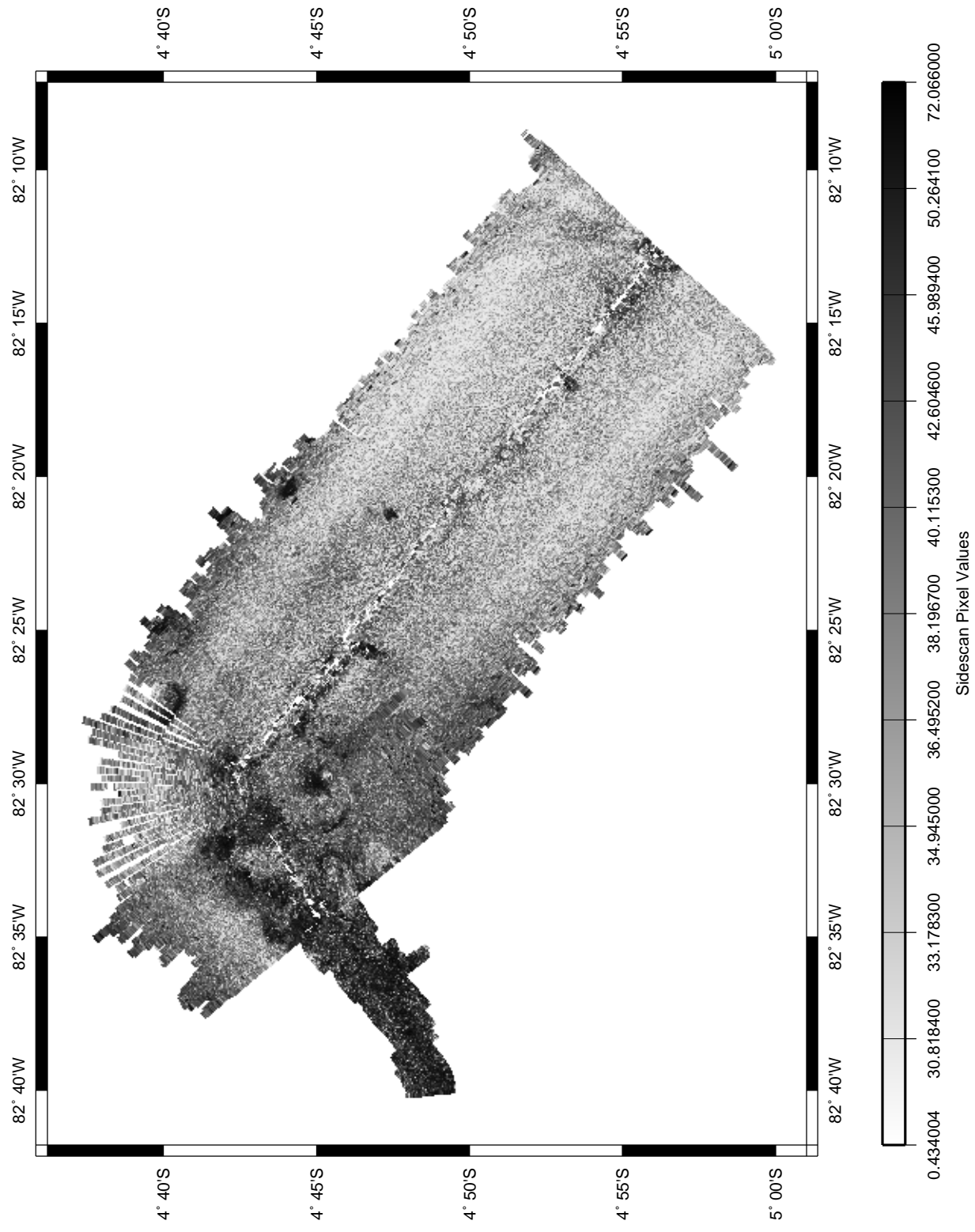


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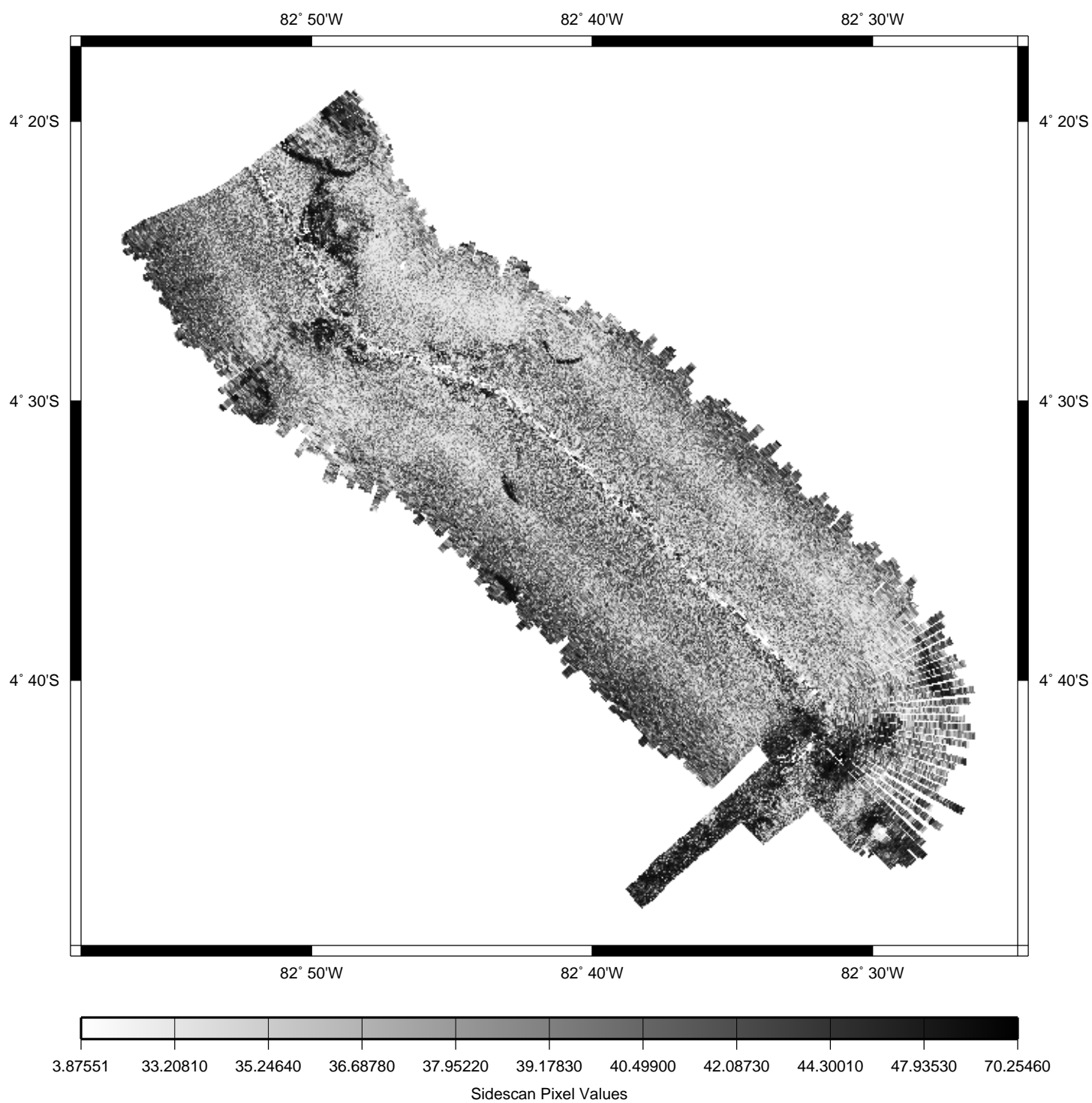




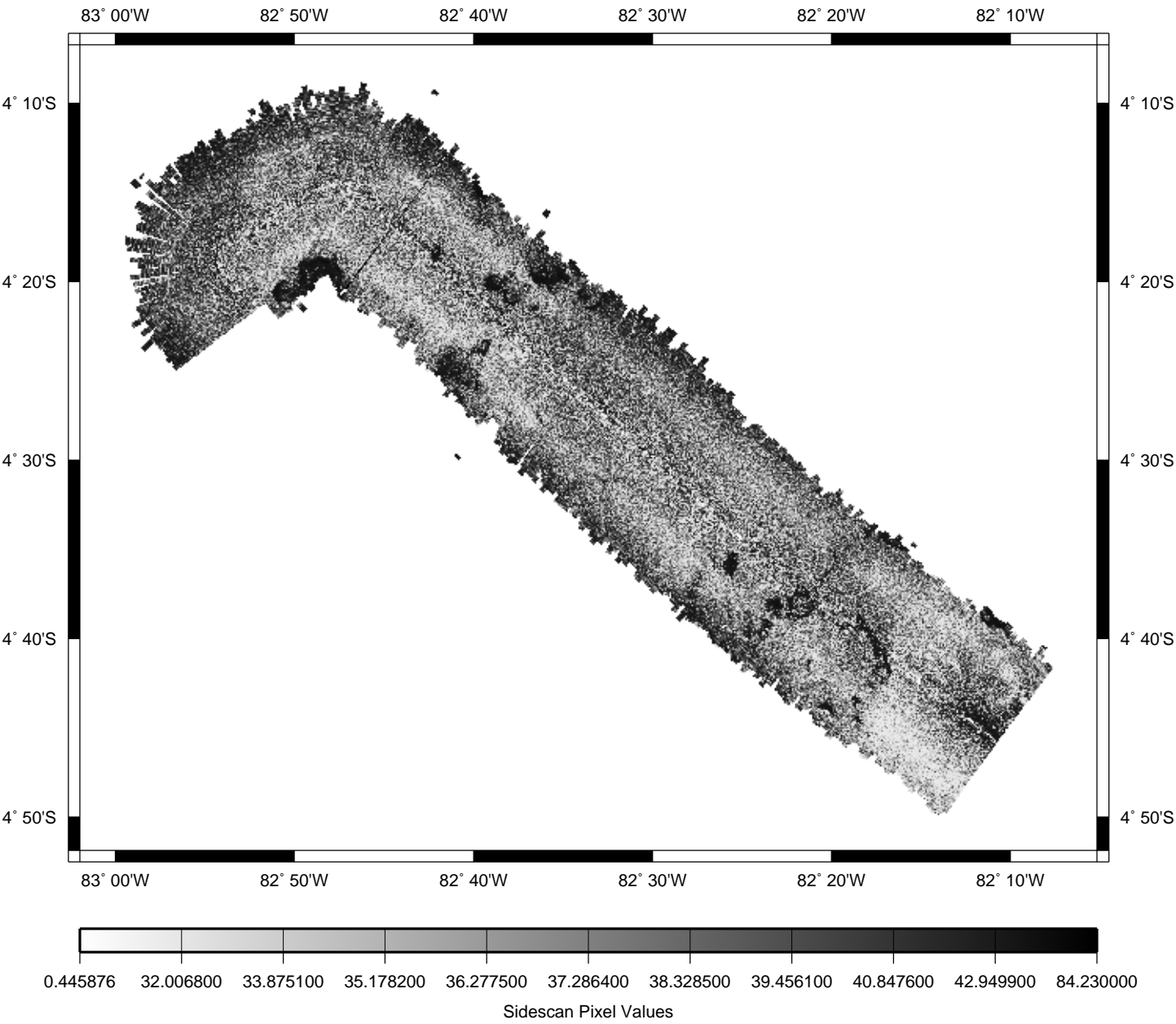
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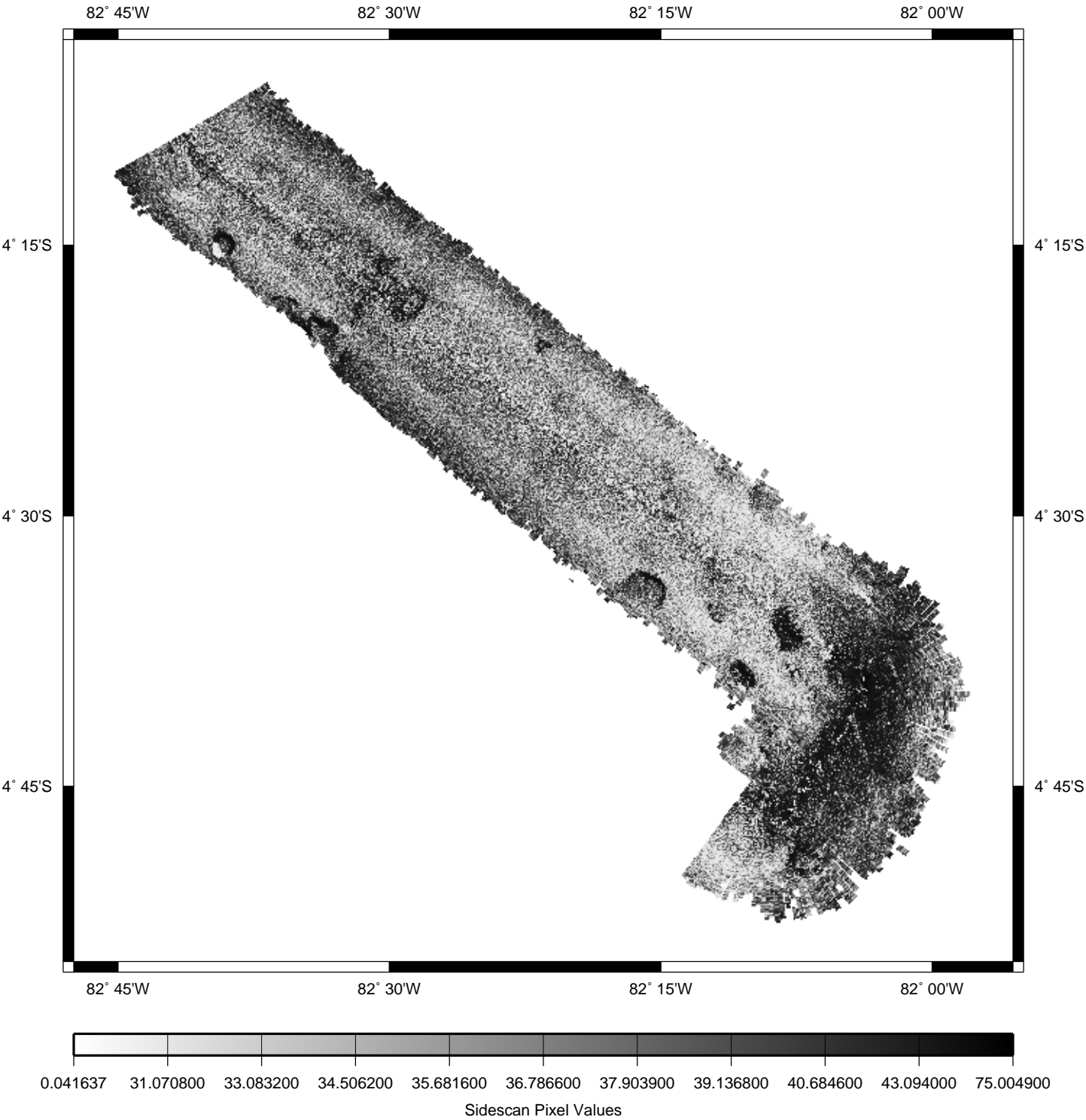


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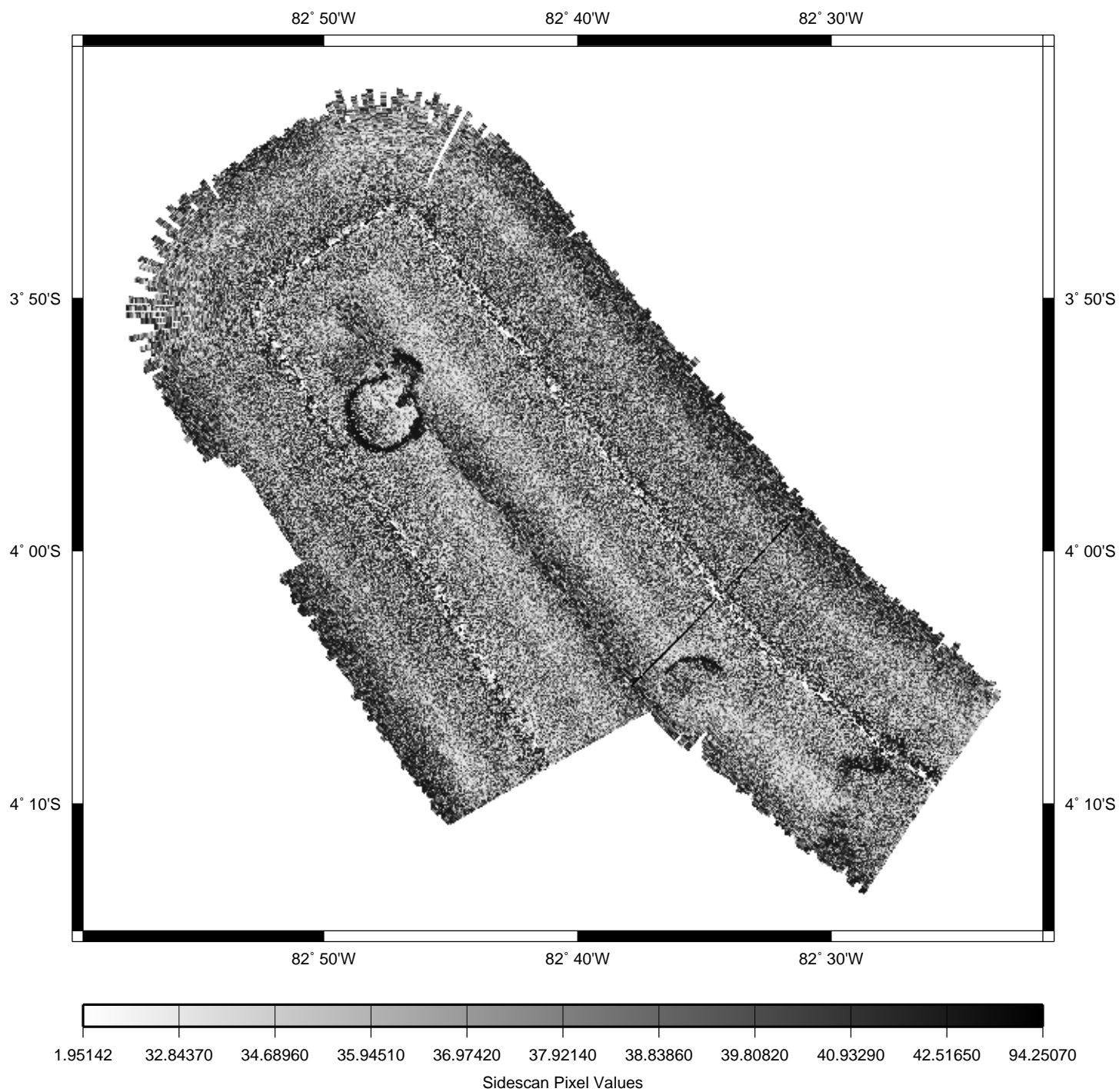




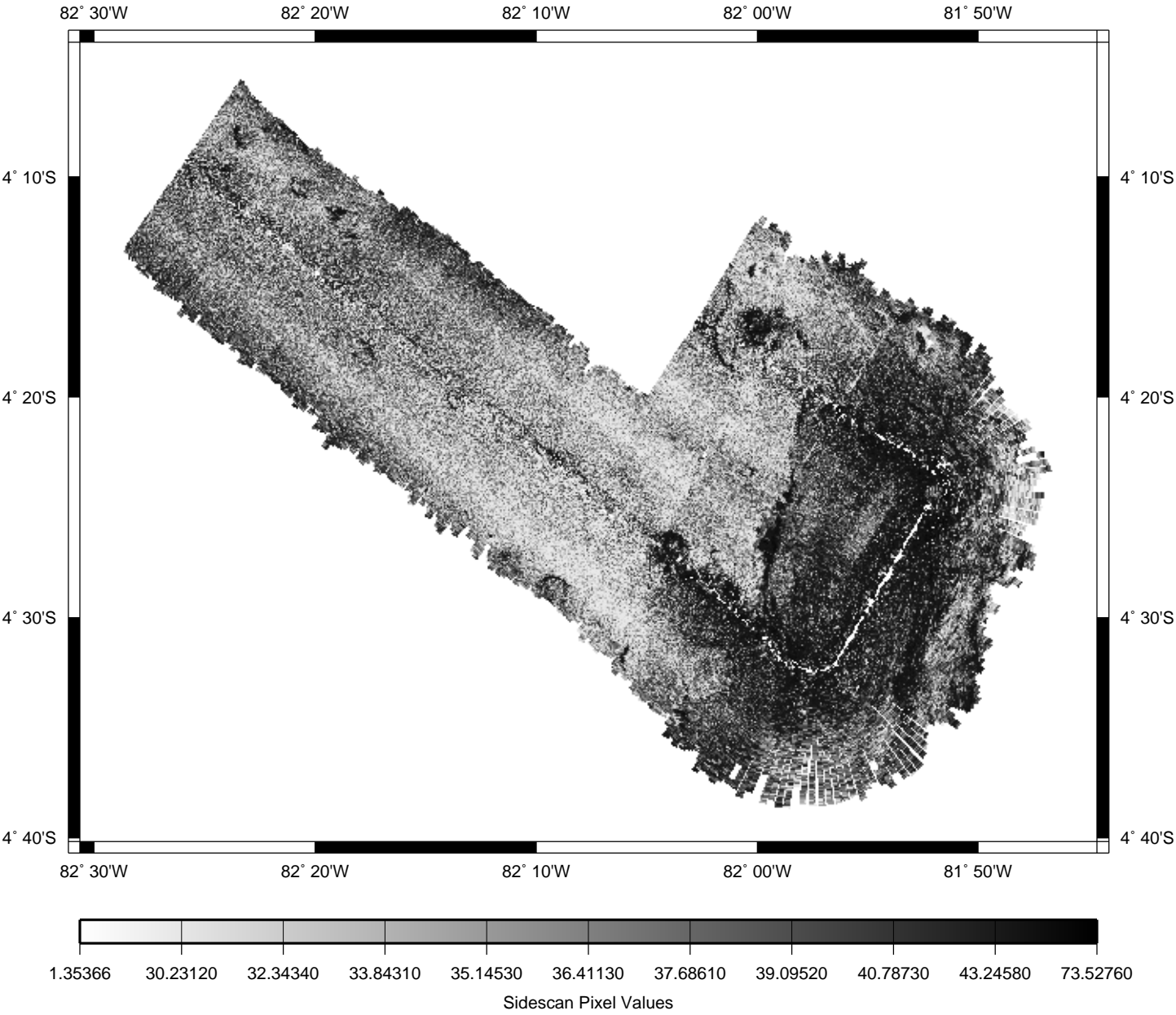
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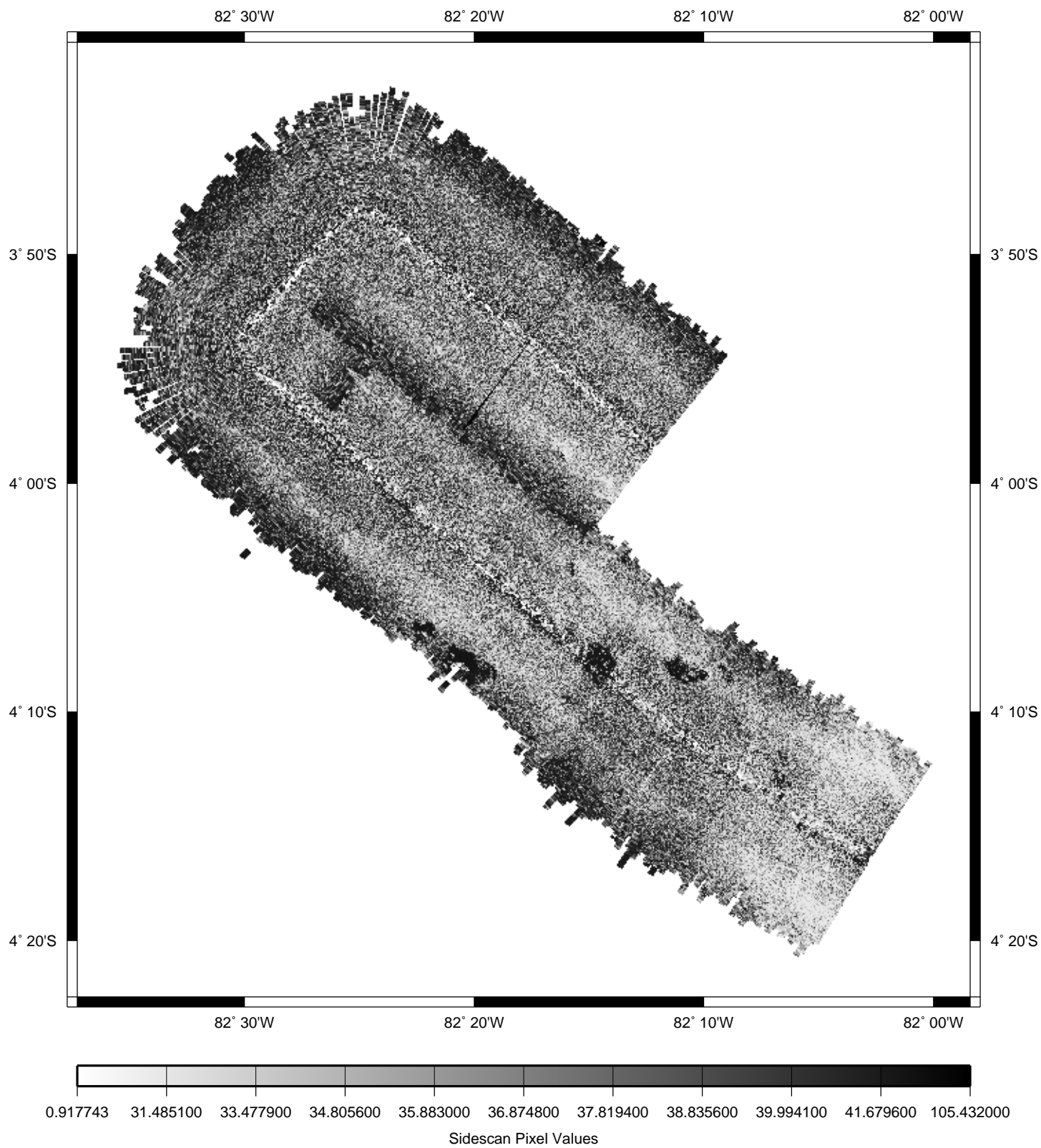
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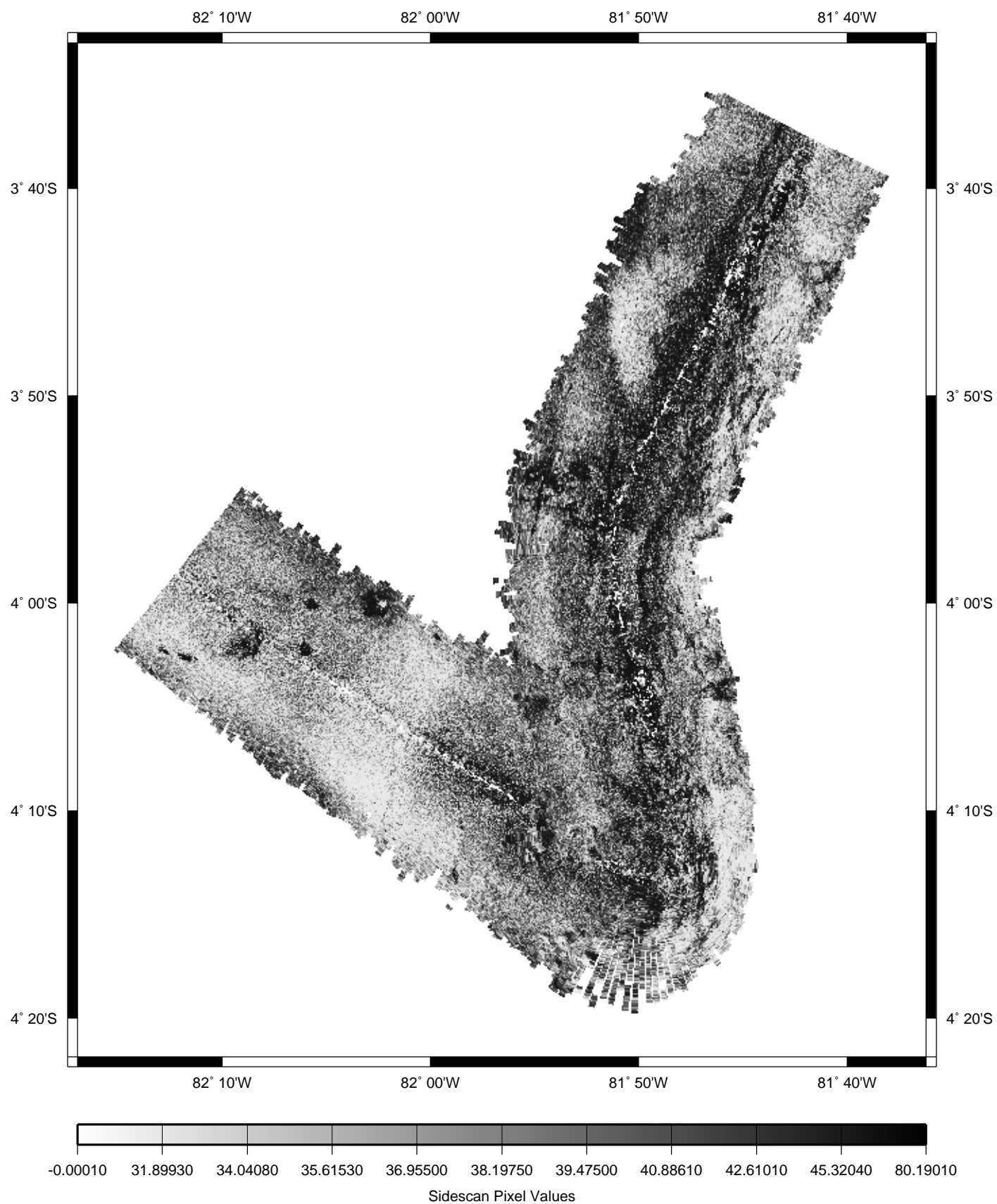
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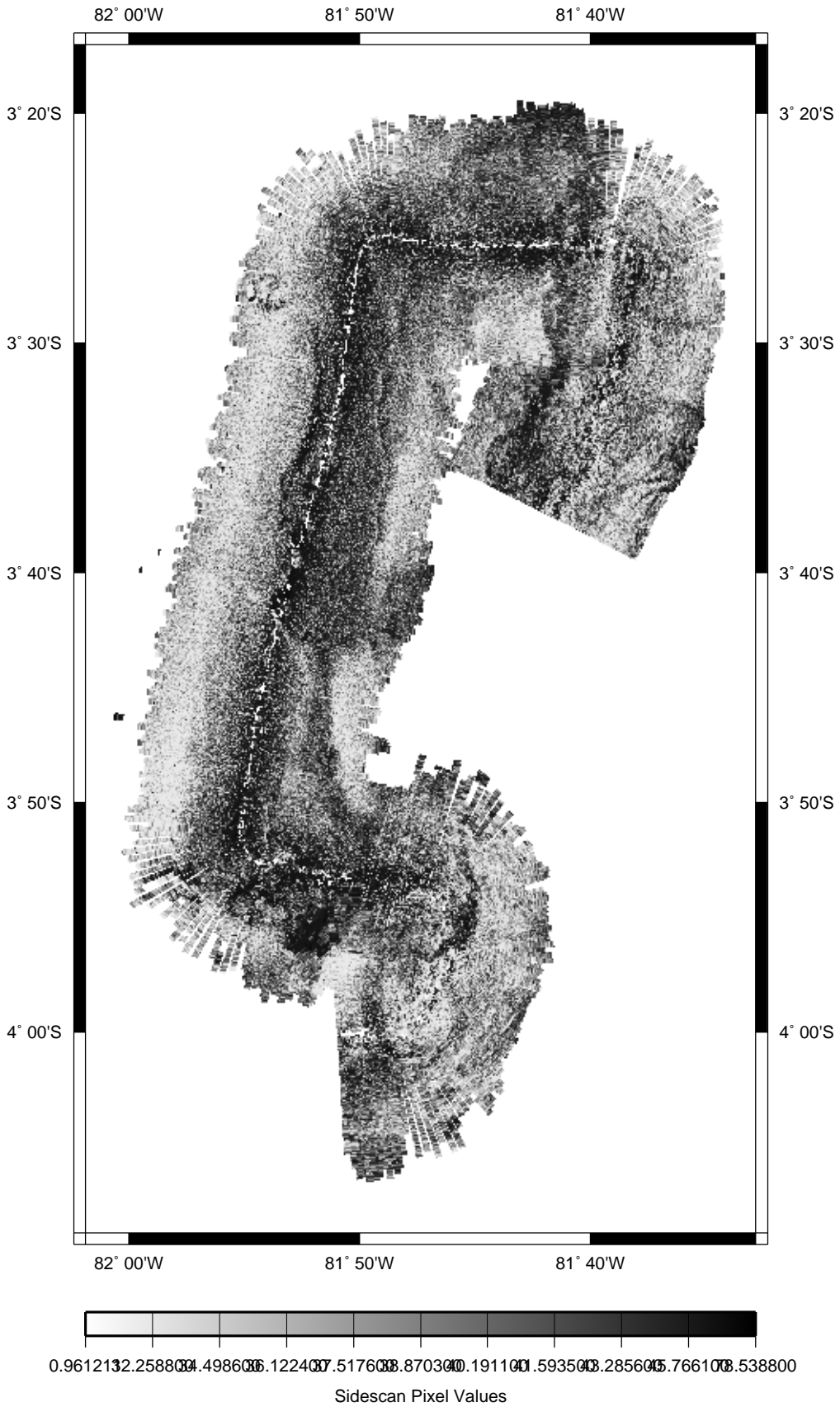


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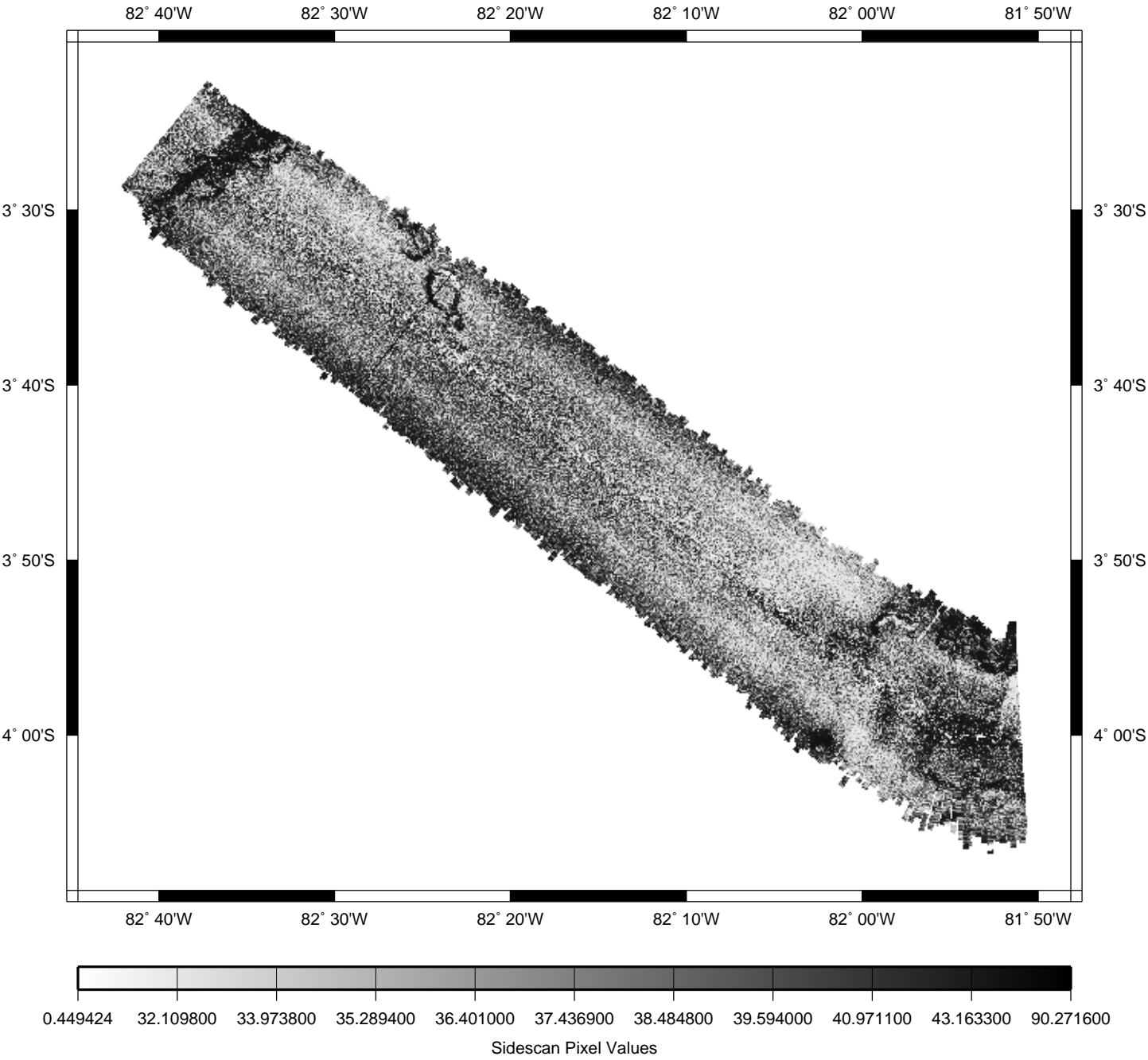


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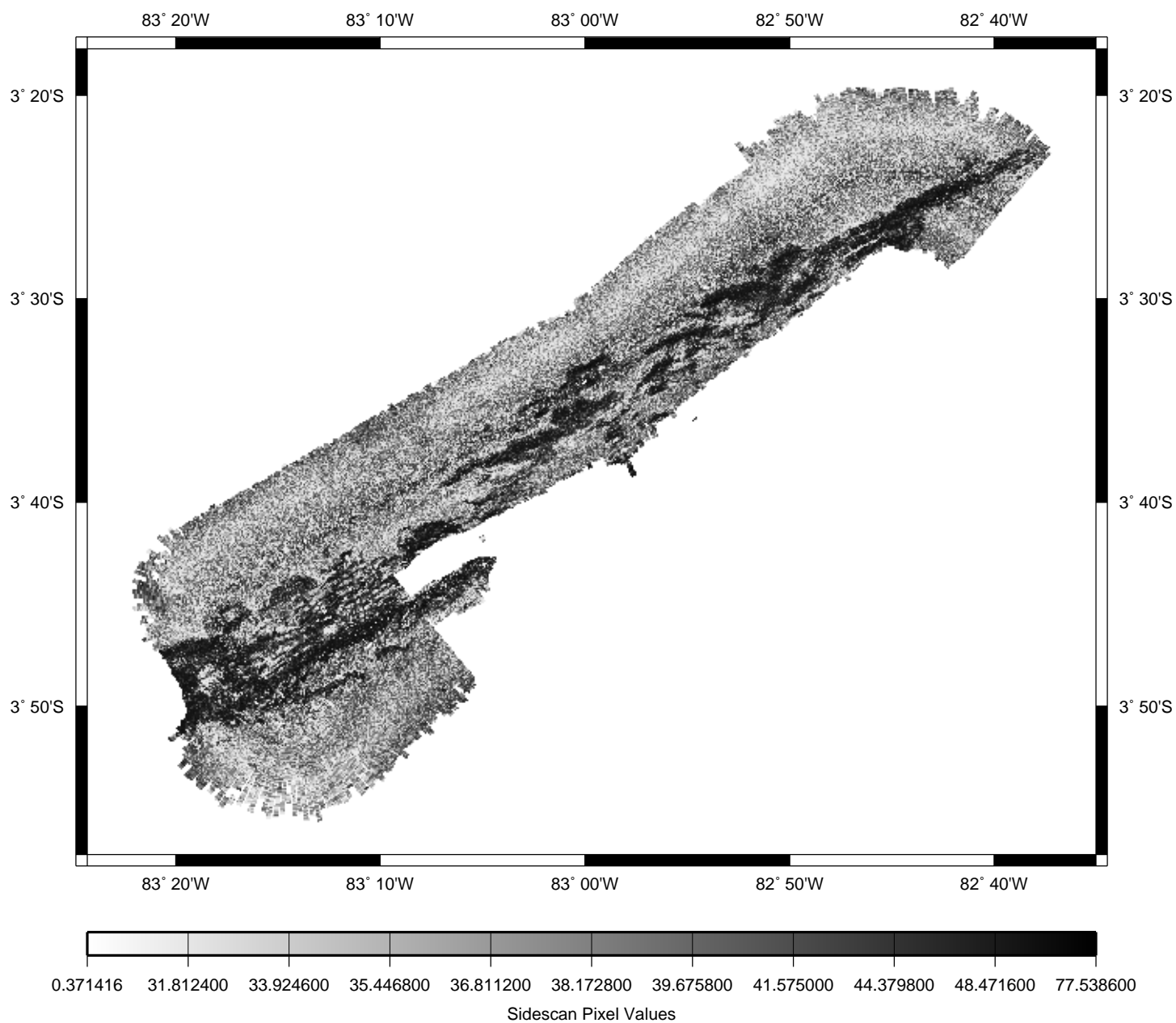




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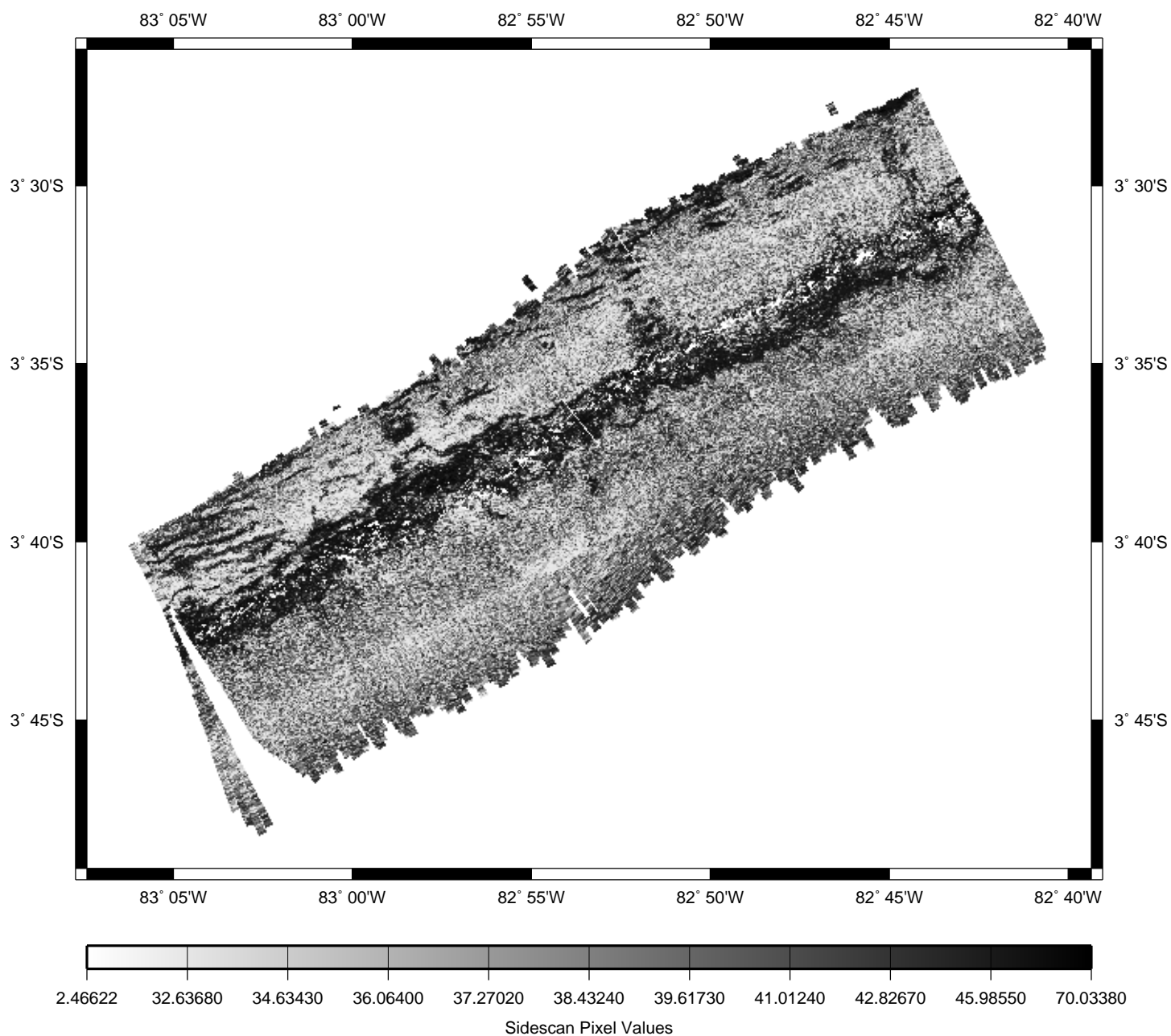


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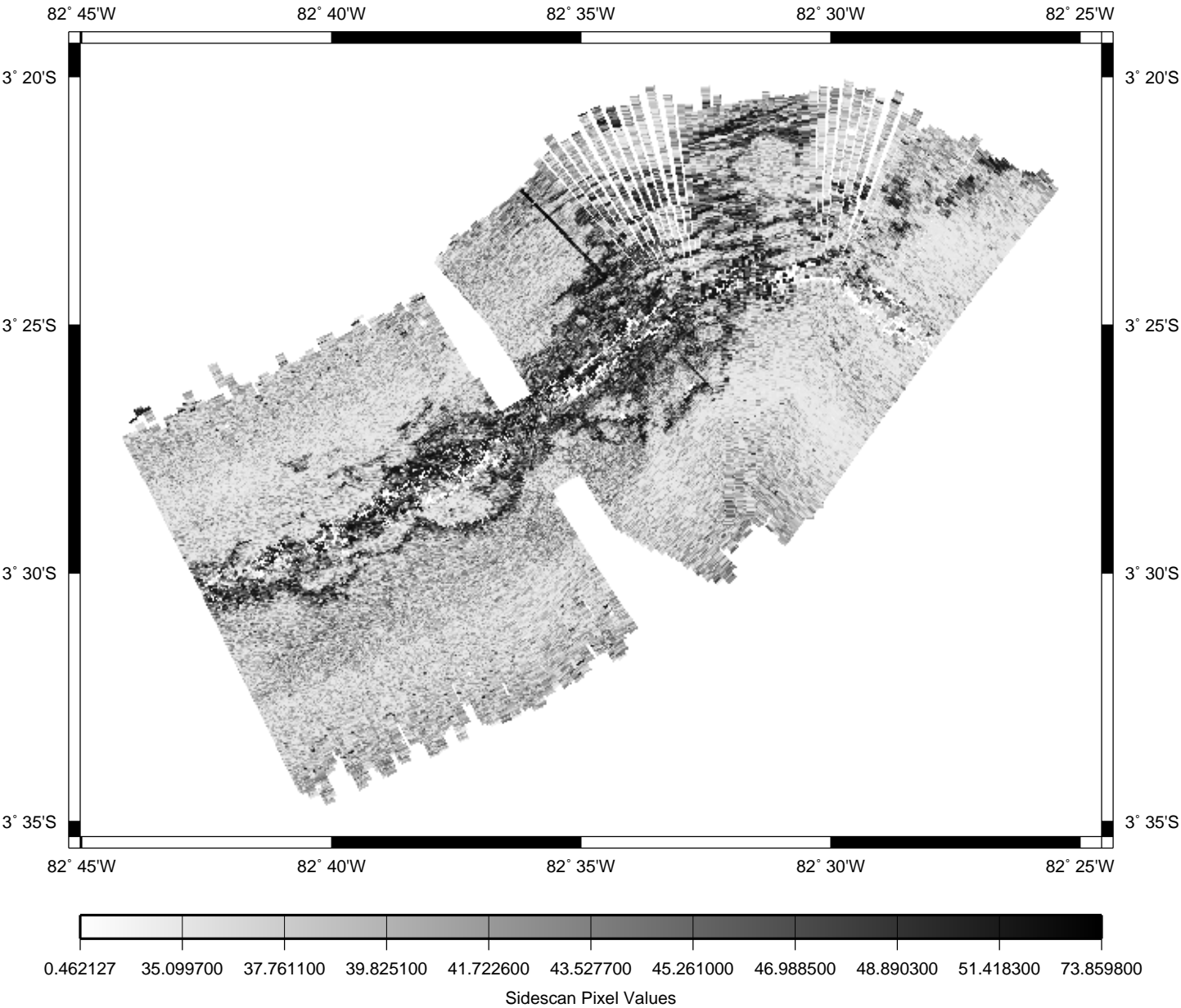




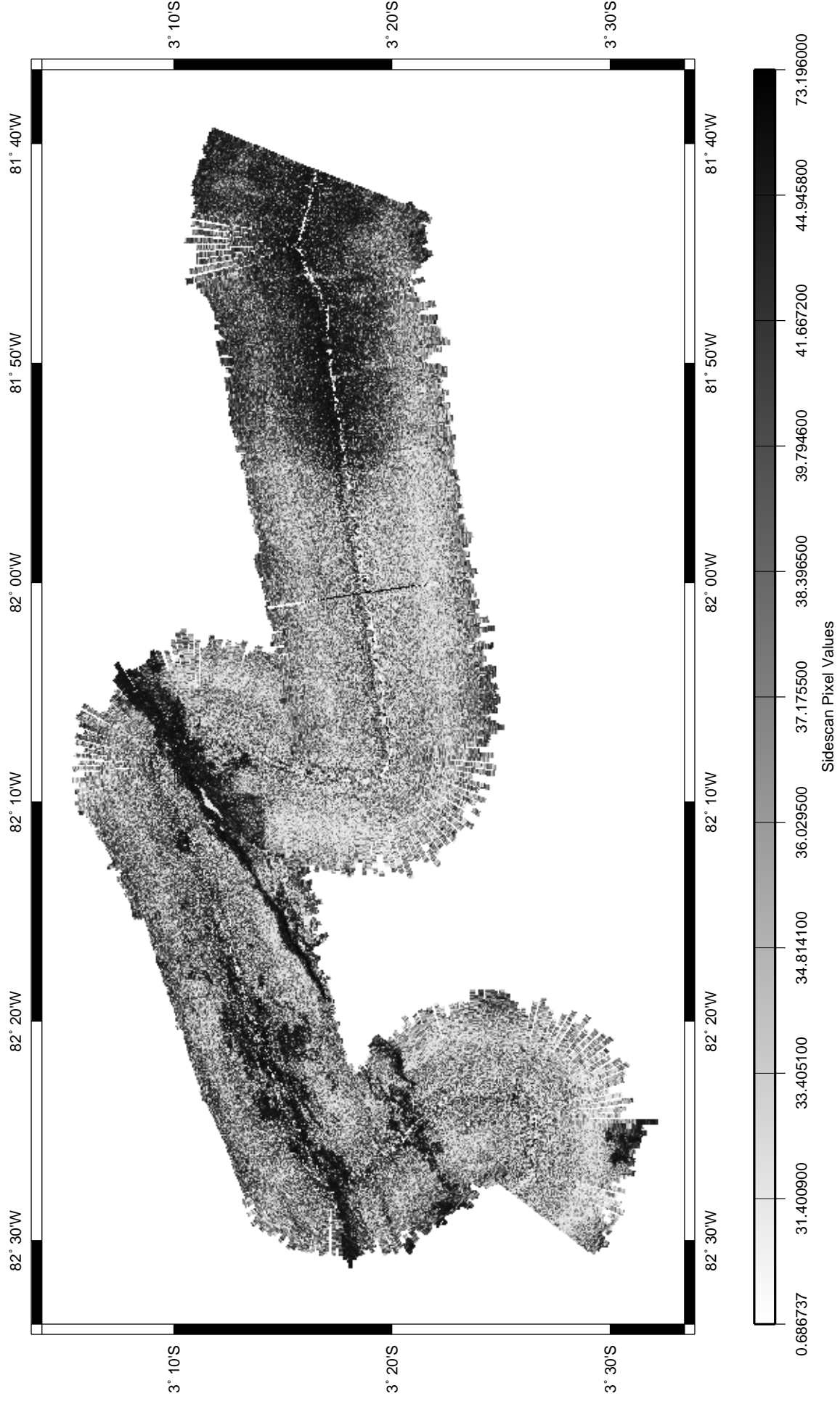
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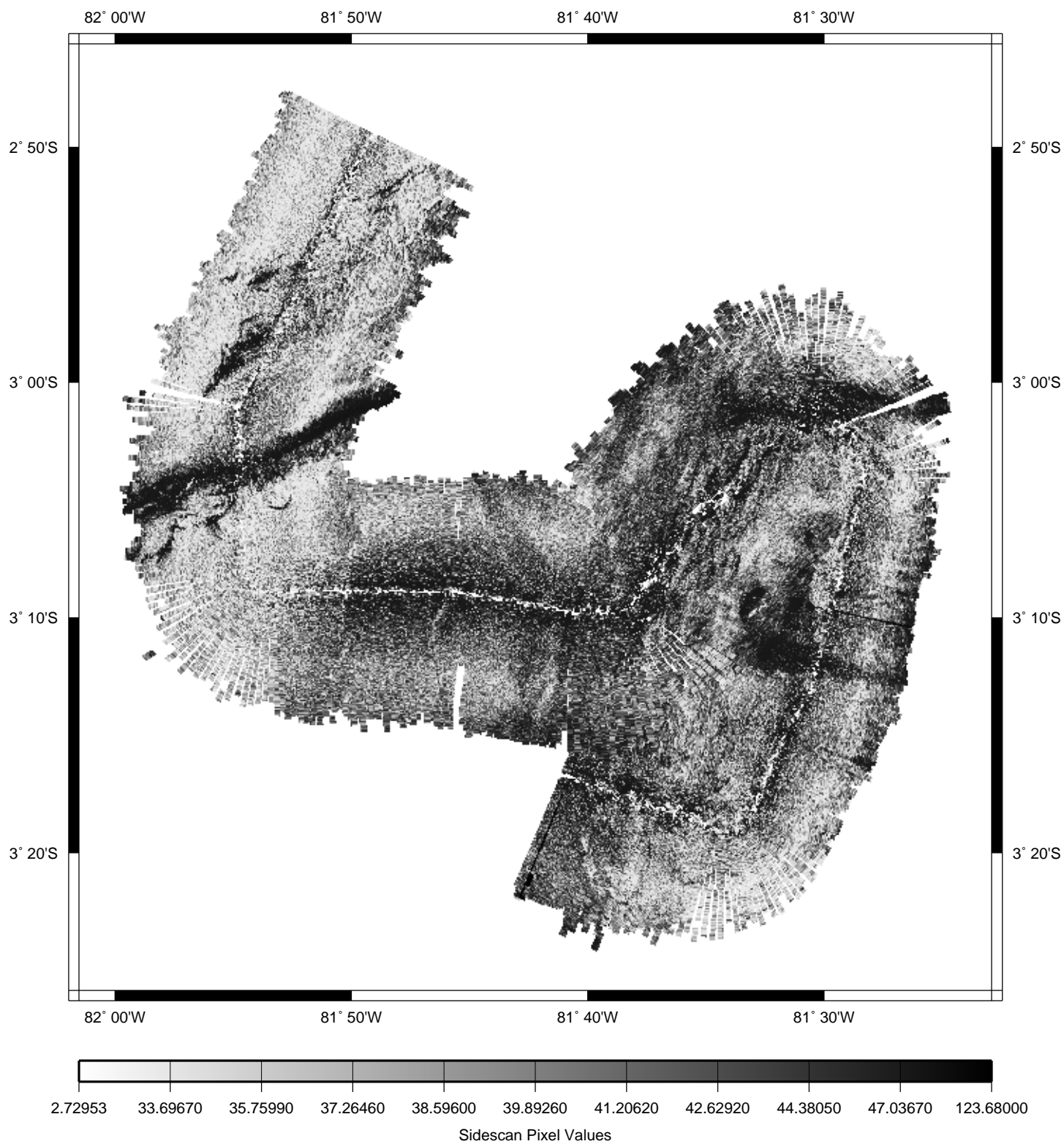
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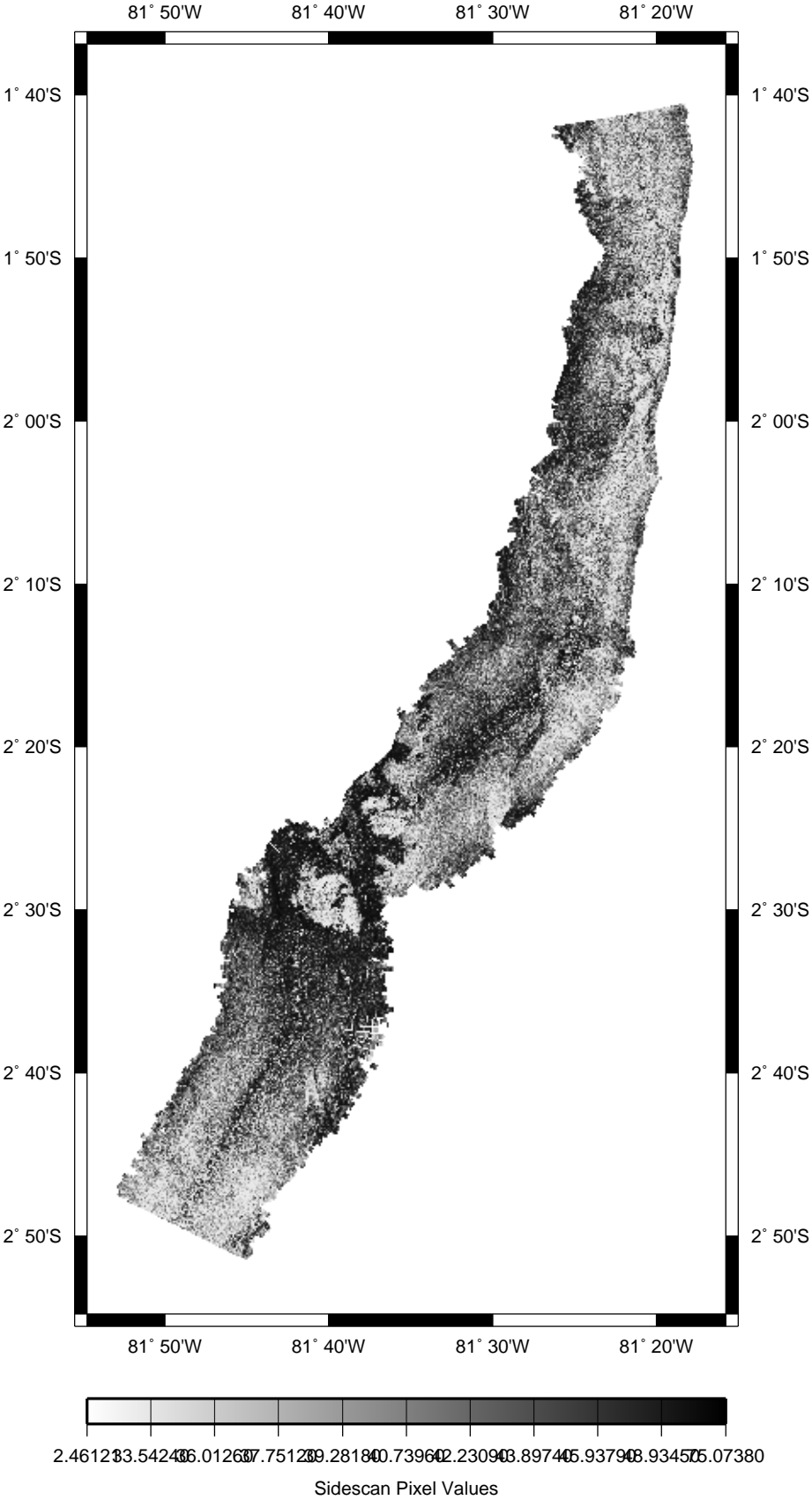


Data List File datalist.20031105.1200-1800



Data List File datalist.20031105.1800-2400





# Data List File datalist.20031106.0600-1200

