

NOAA P-3 measurements...



NOAA WP-3D needed to:

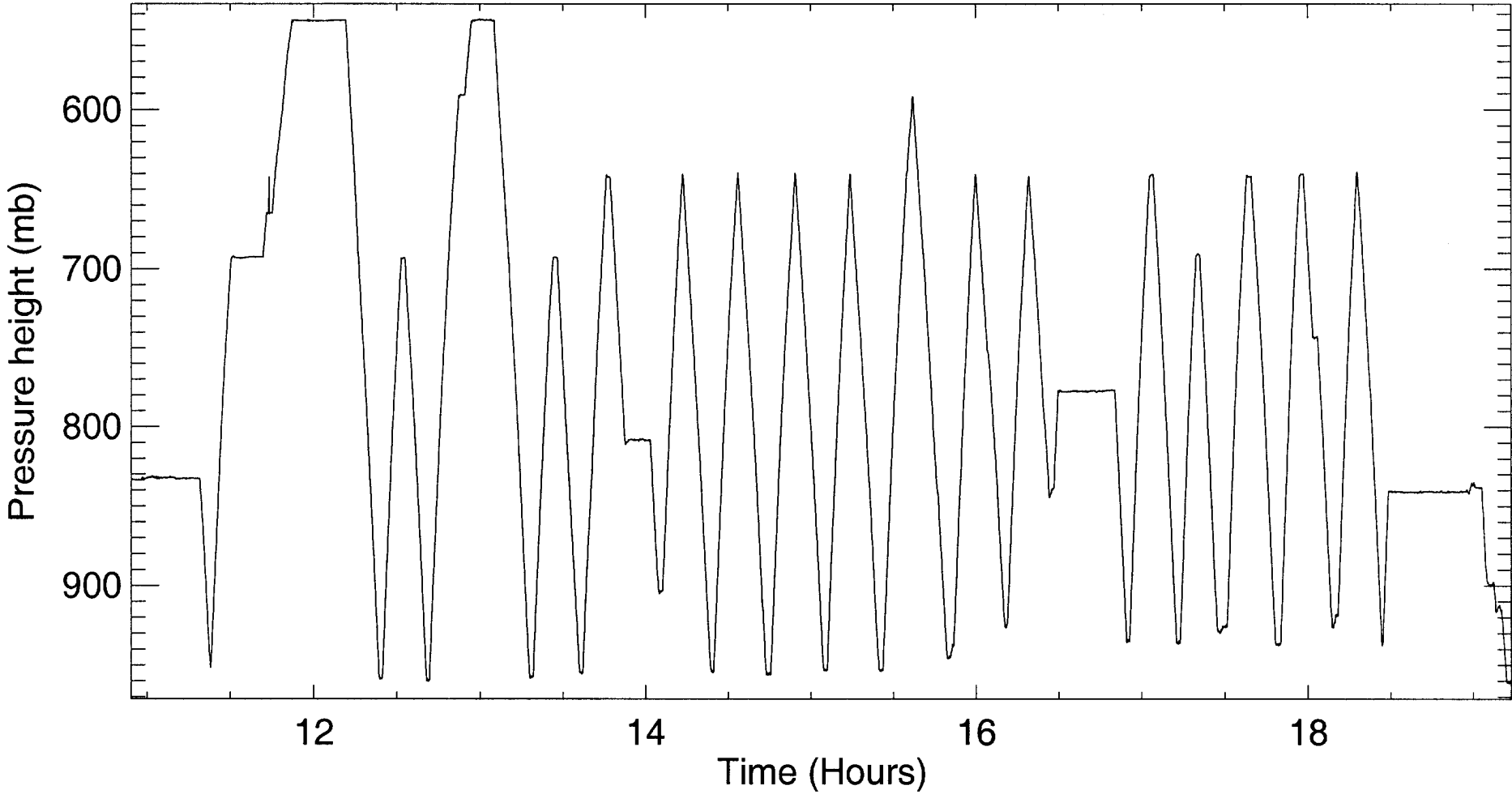
- Measure mesoscale structure of the jet, especially near Andes
- Measure synoptic-scale structure of the moisture and temperature fields at better resolution than provided by the radiosonde network
- Provide geographical flexibility that a fixed network could not provide

P-3 flights by objective (13 flights)

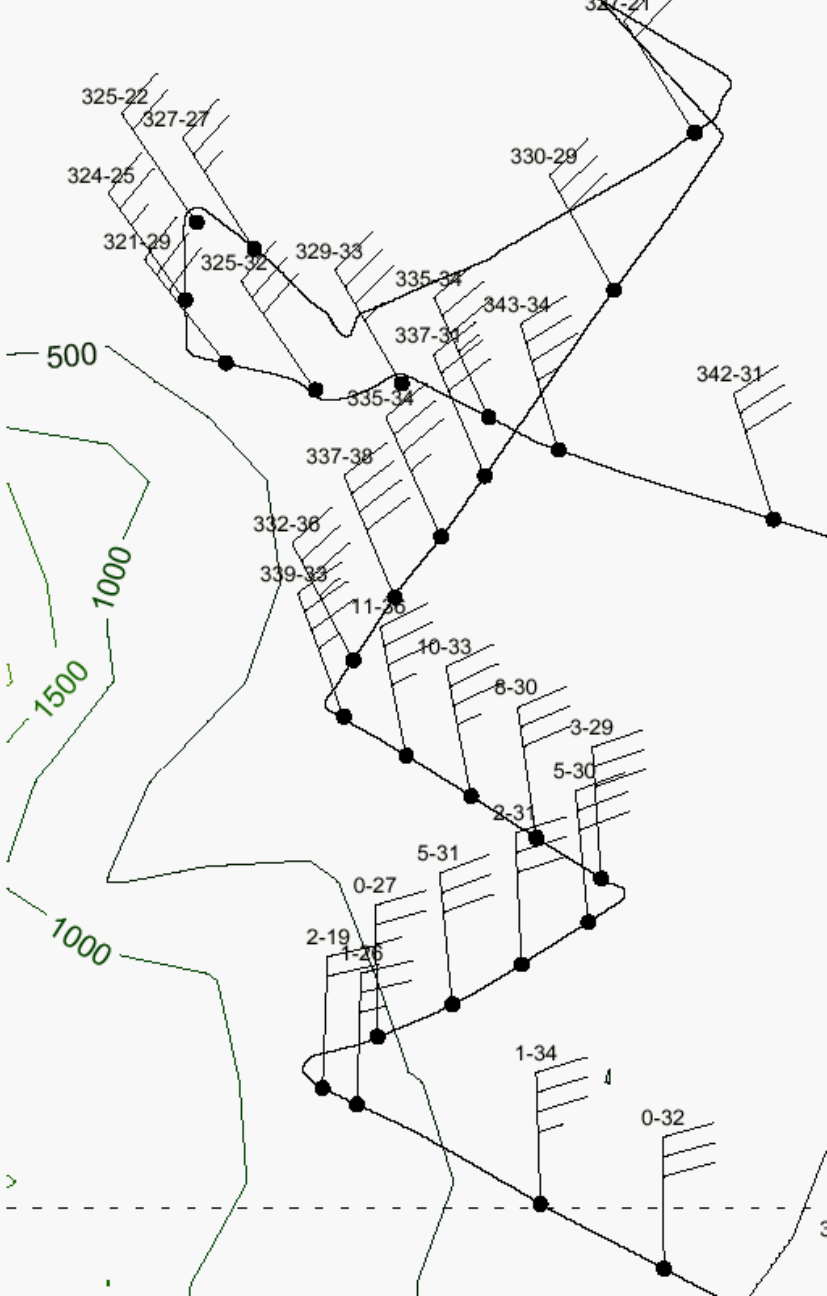
- Low-level jet structure (8.0 flights)
- LLJ and organized convective systems (1.5 flights)
- Flow over altiplano / E Pacific VEPIC (1 flight)
- Cold frontal/southerly surge (1.5 flights)
- Argentinean heat low structure (1 flight)

“normal” porpoising flight...Jan 21st

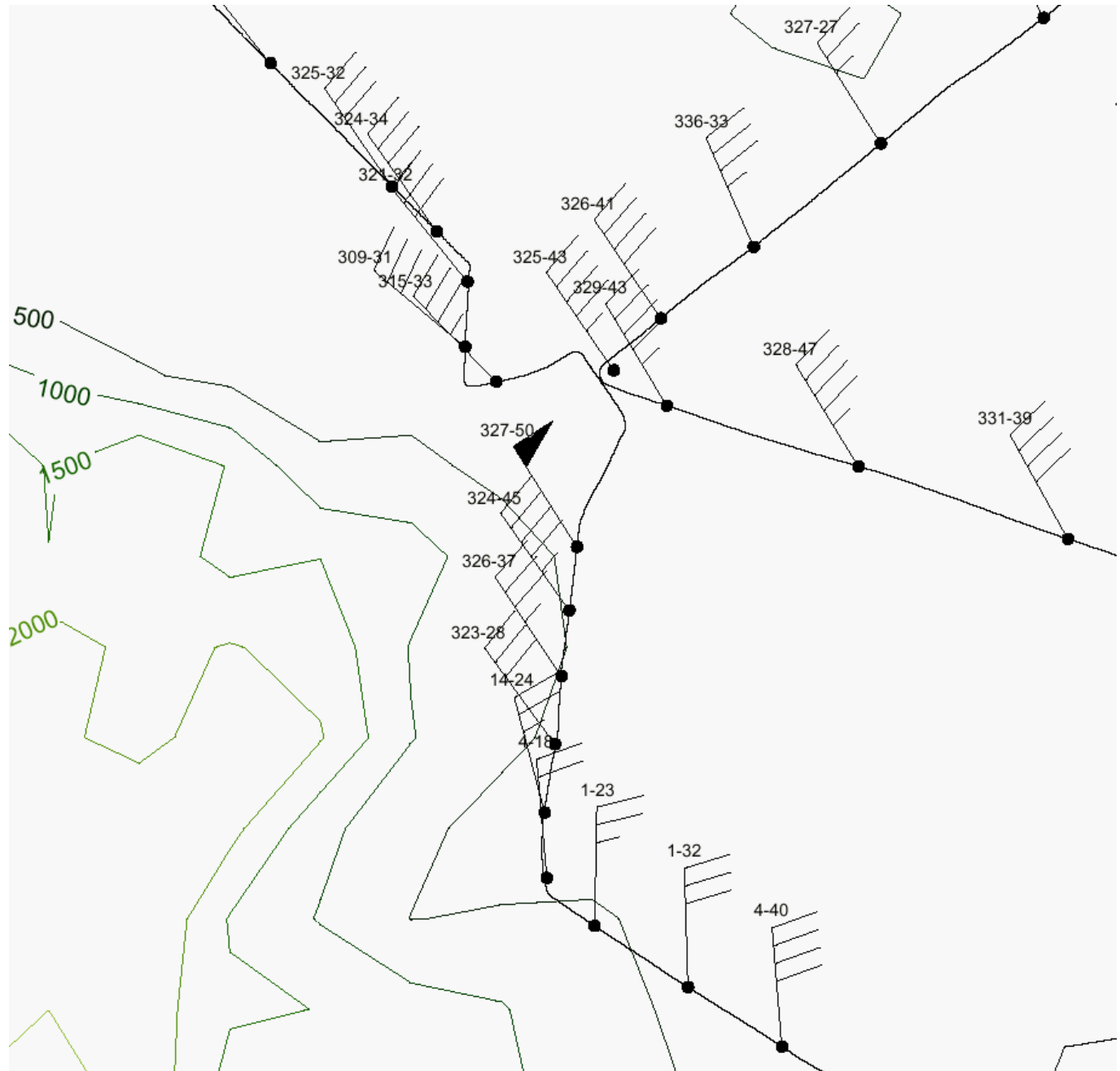
2003/01/21



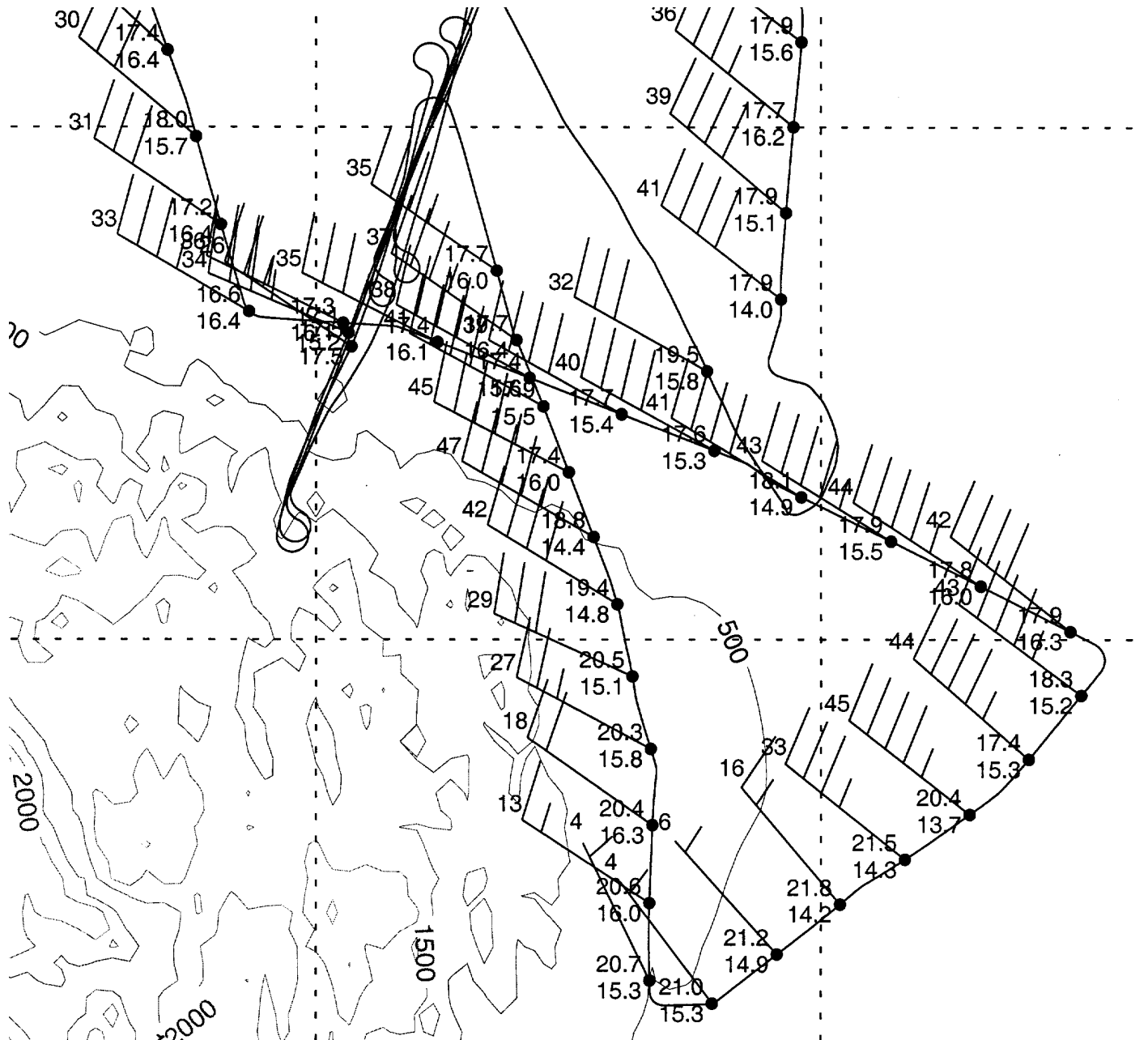
Feb 04
2003

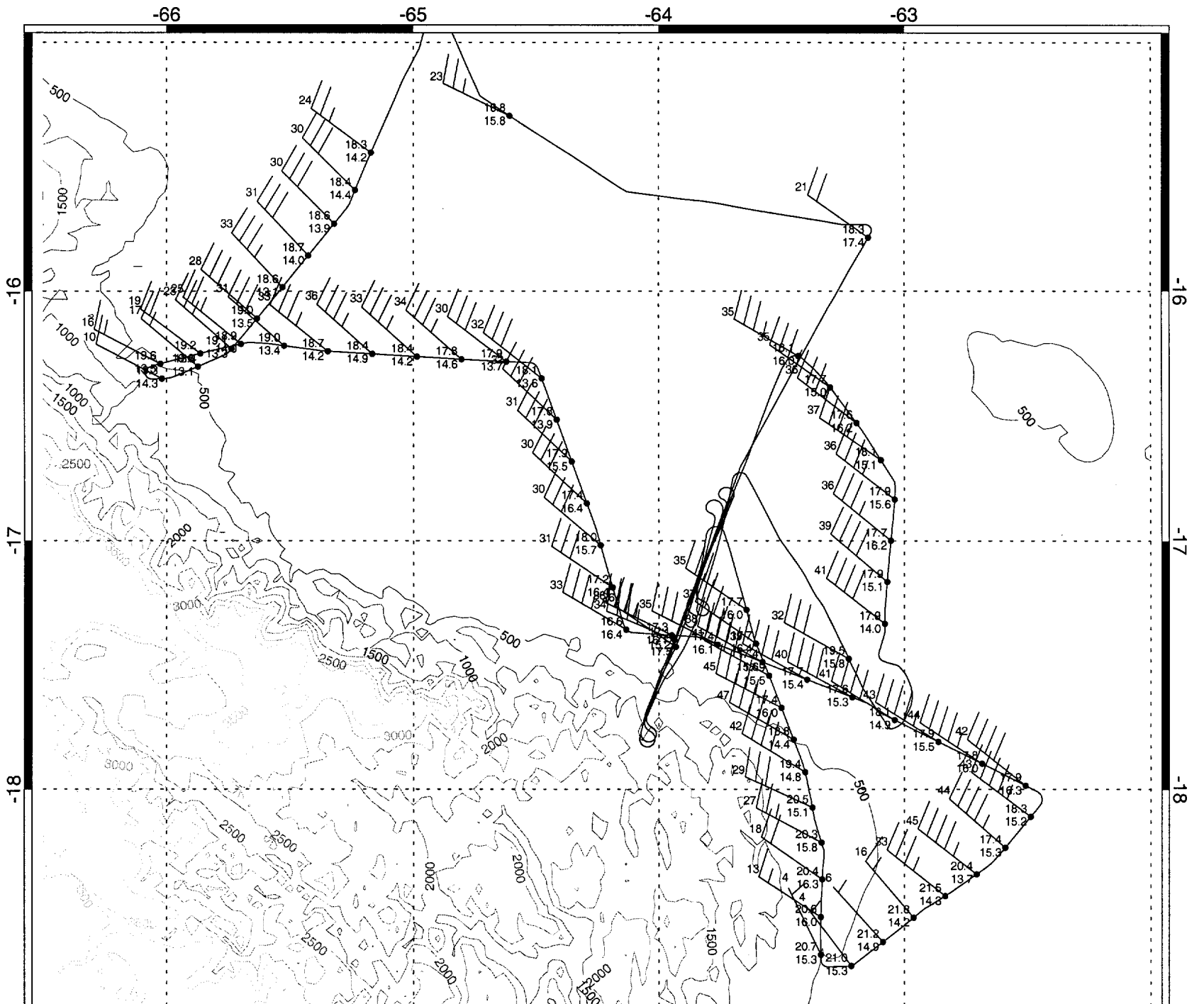


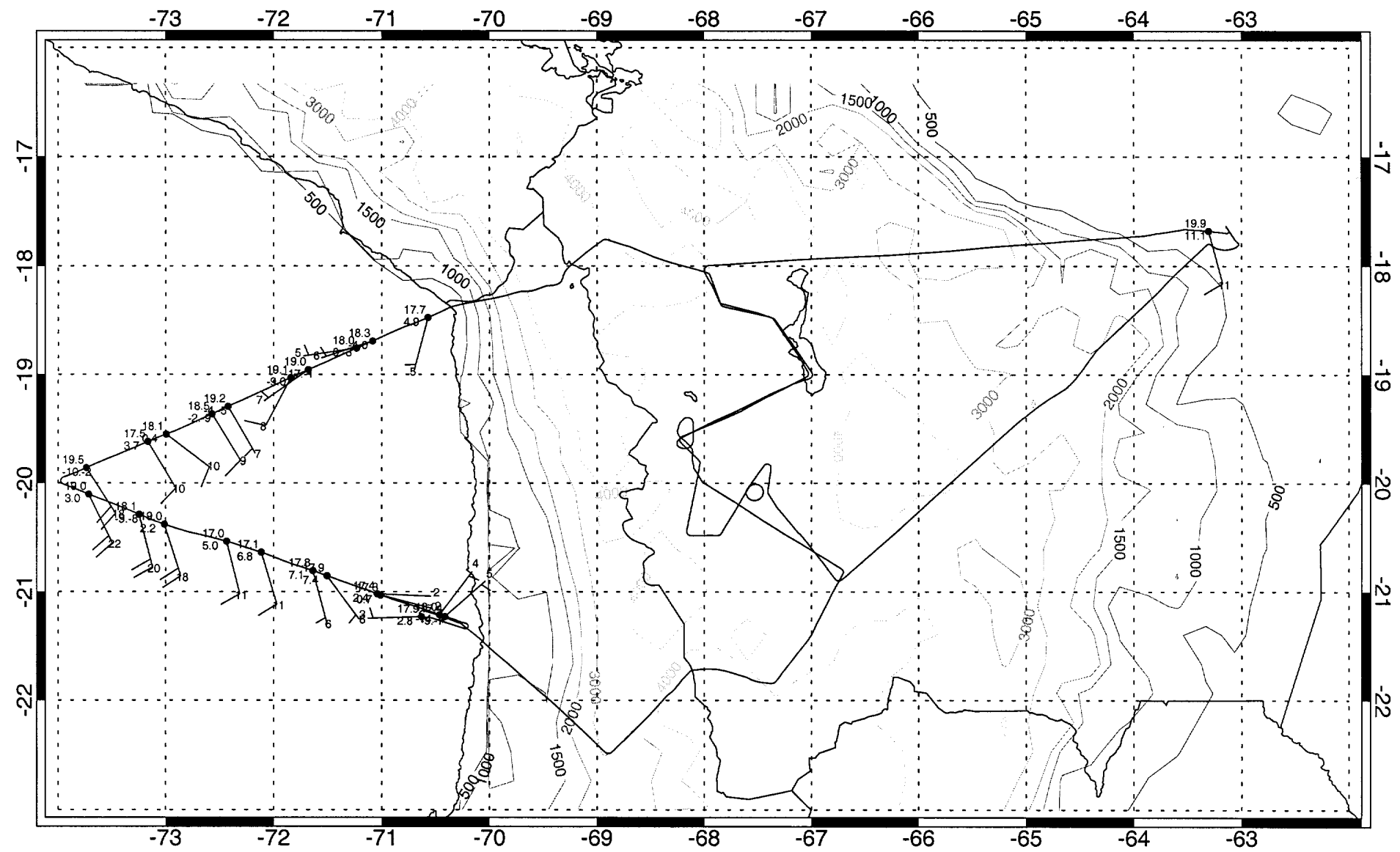
Feb 06
2003



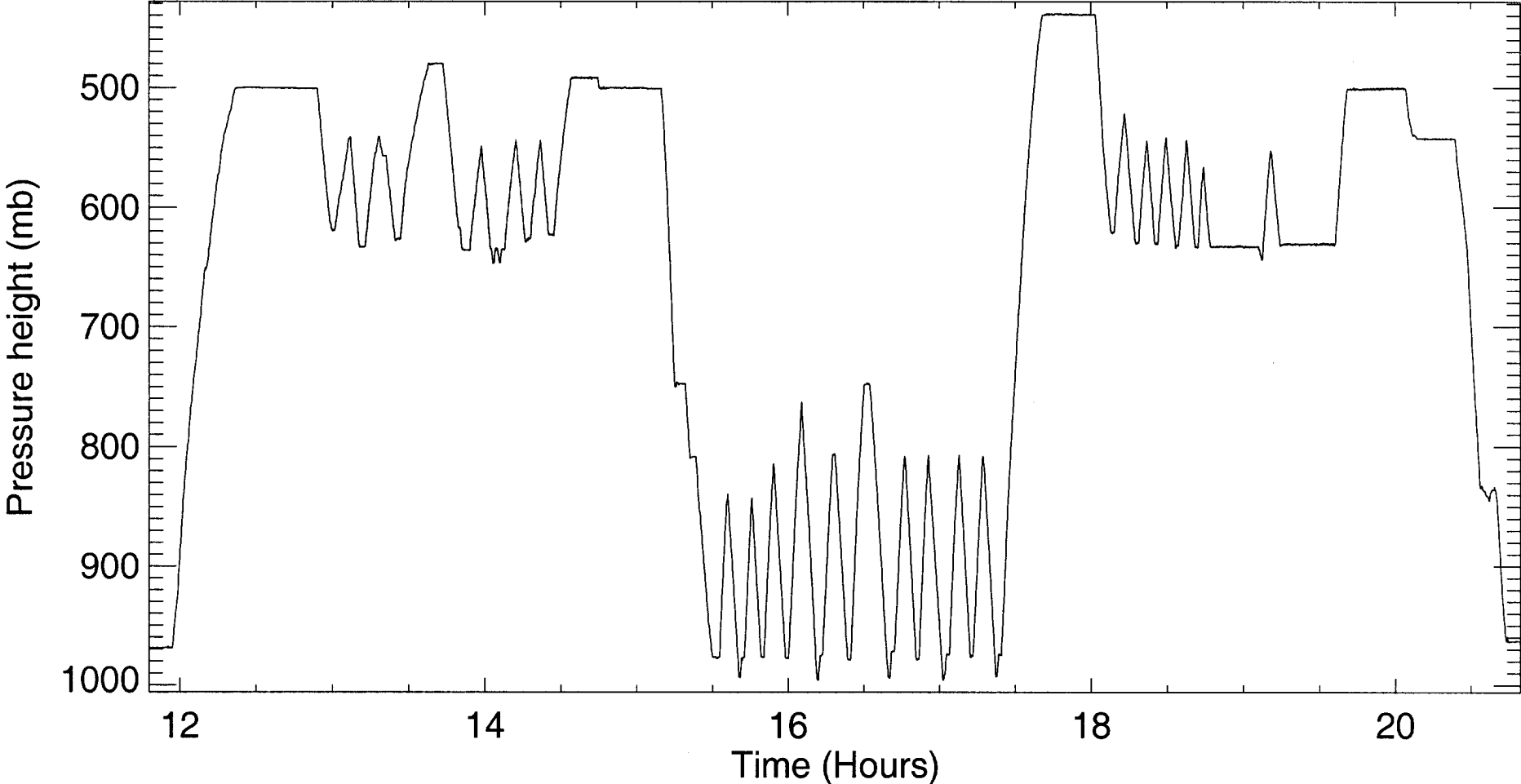
Flow "around corner" near Santa Cruz...

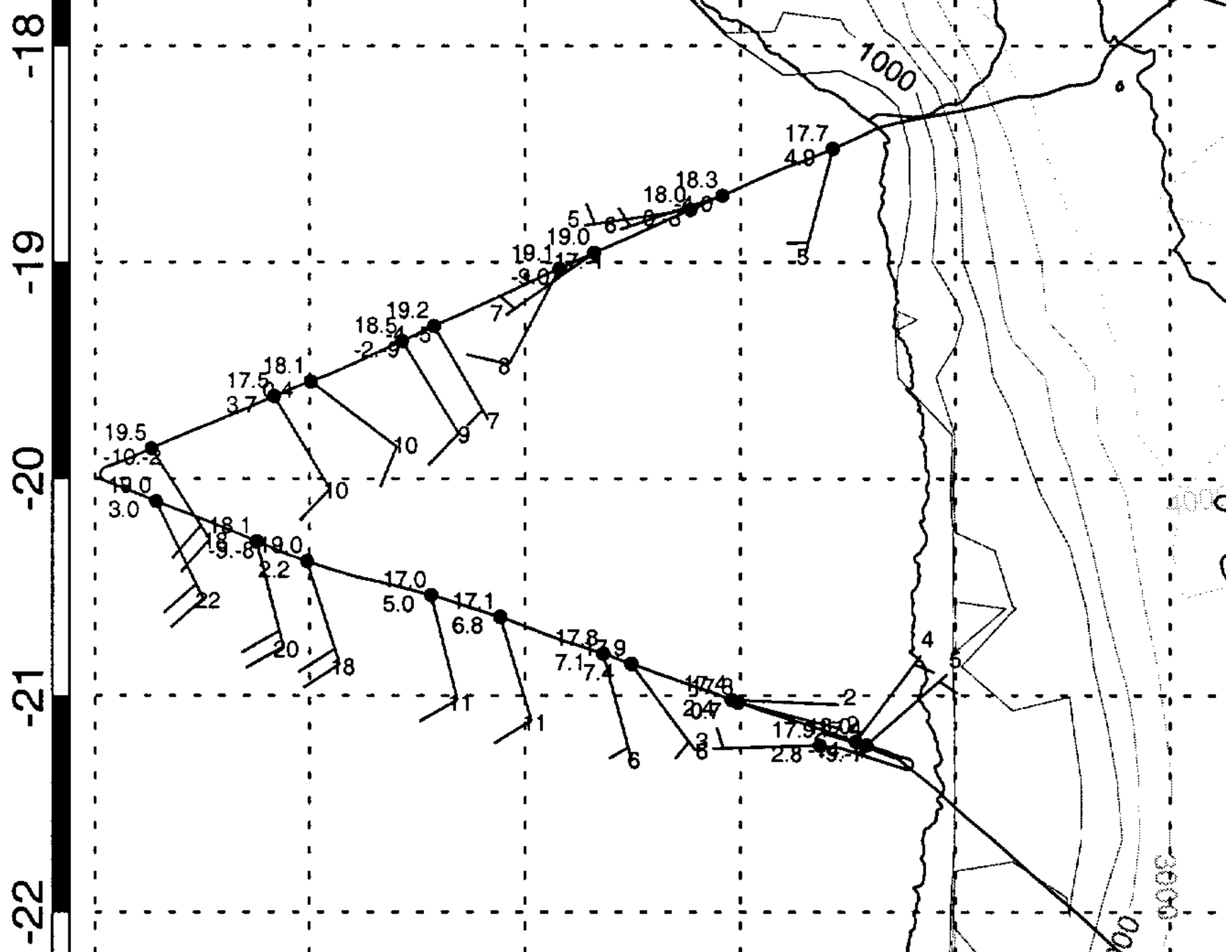




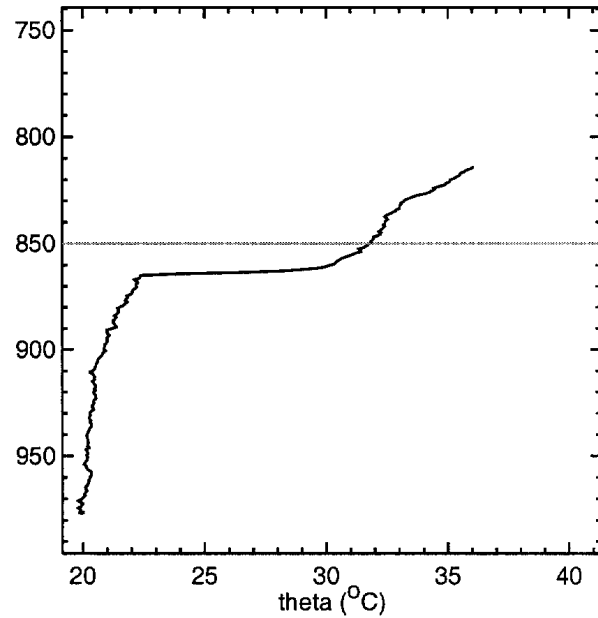
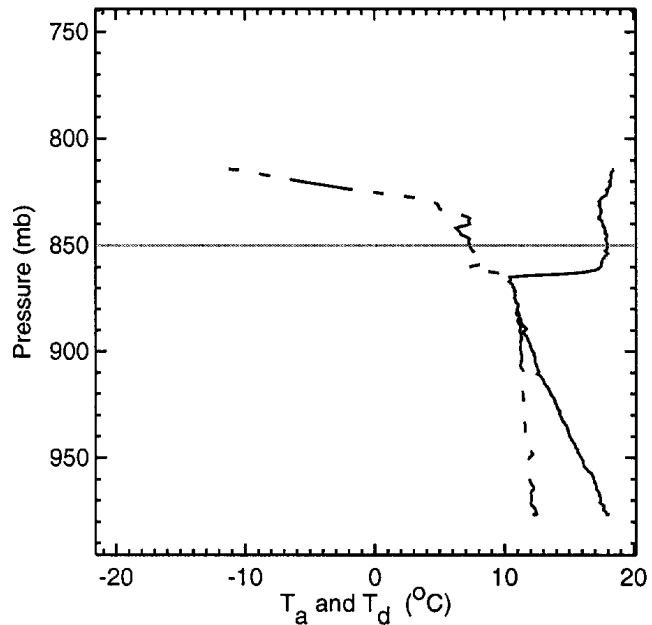


2003/01/28

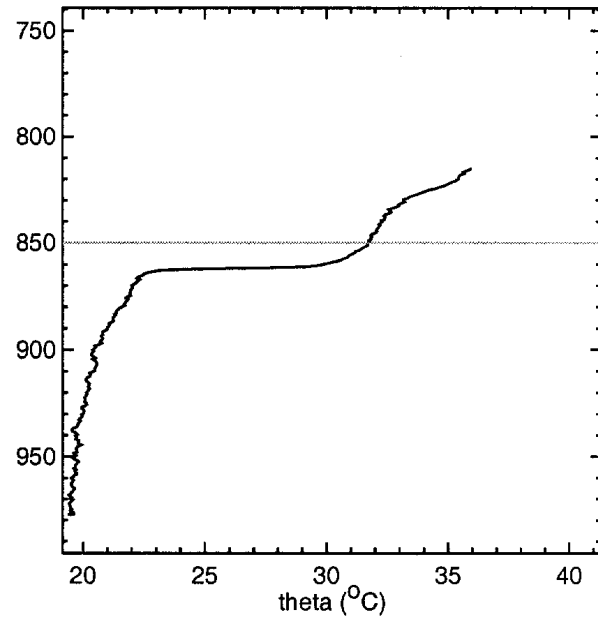
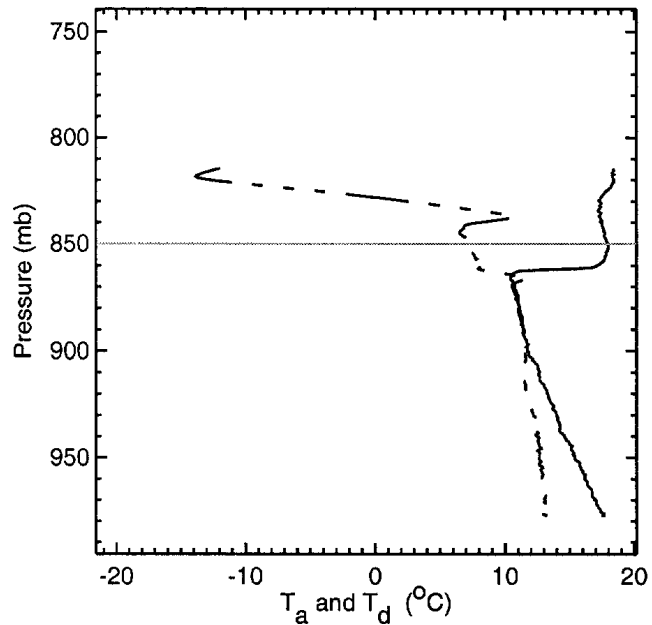




Profile #5. Date:2003/01/28

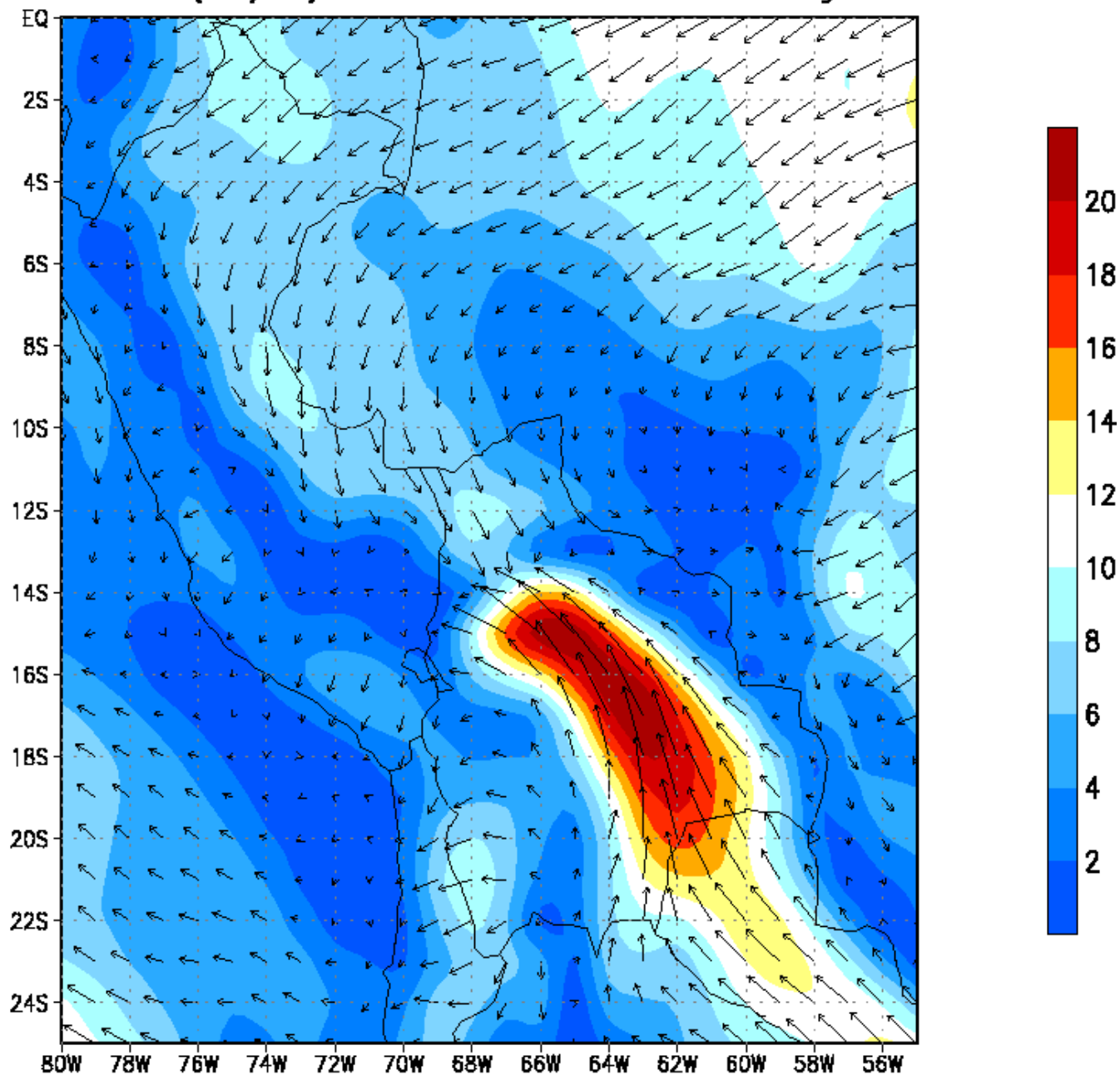


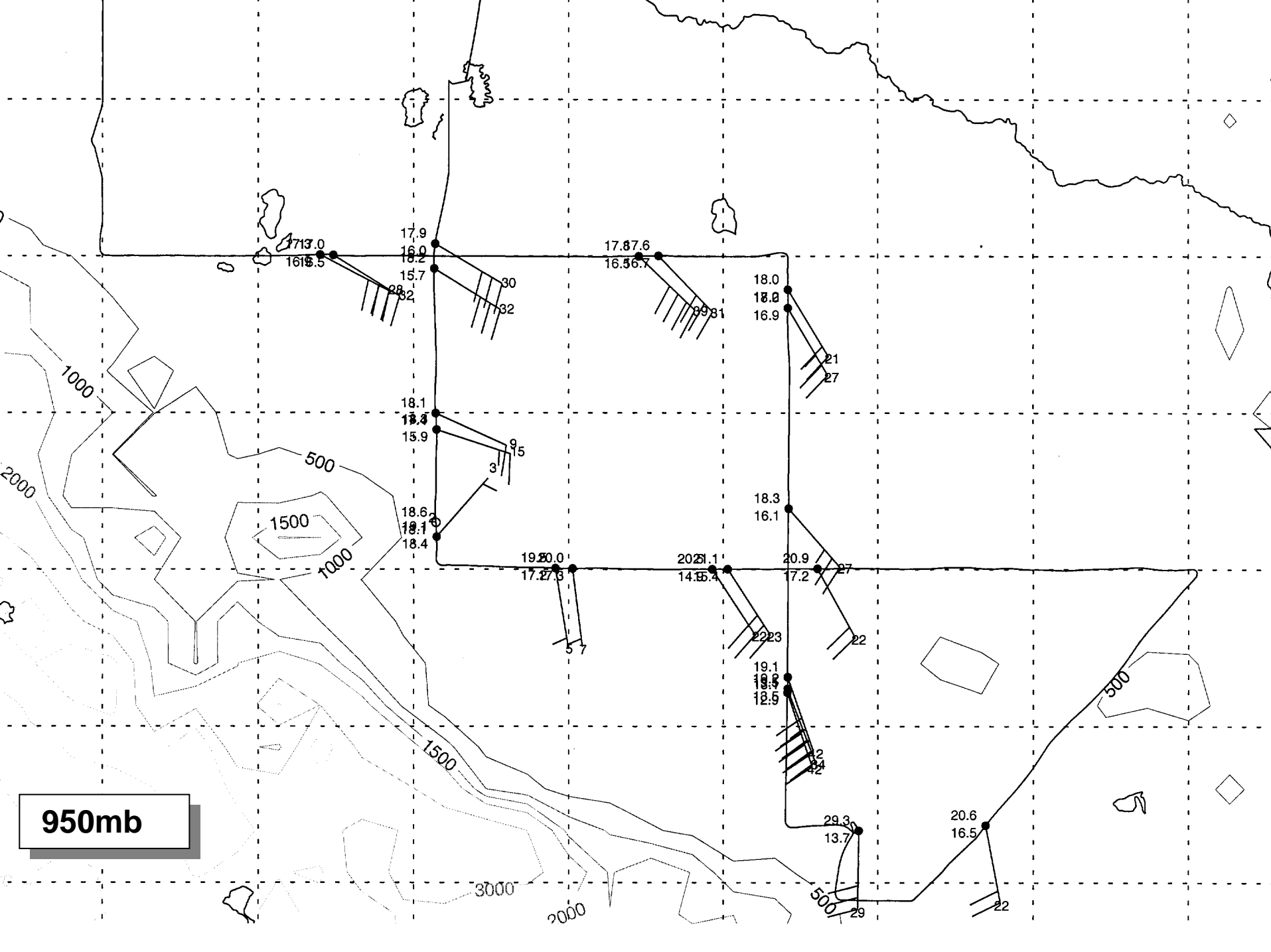
Profile #6. Date:2003/01/28



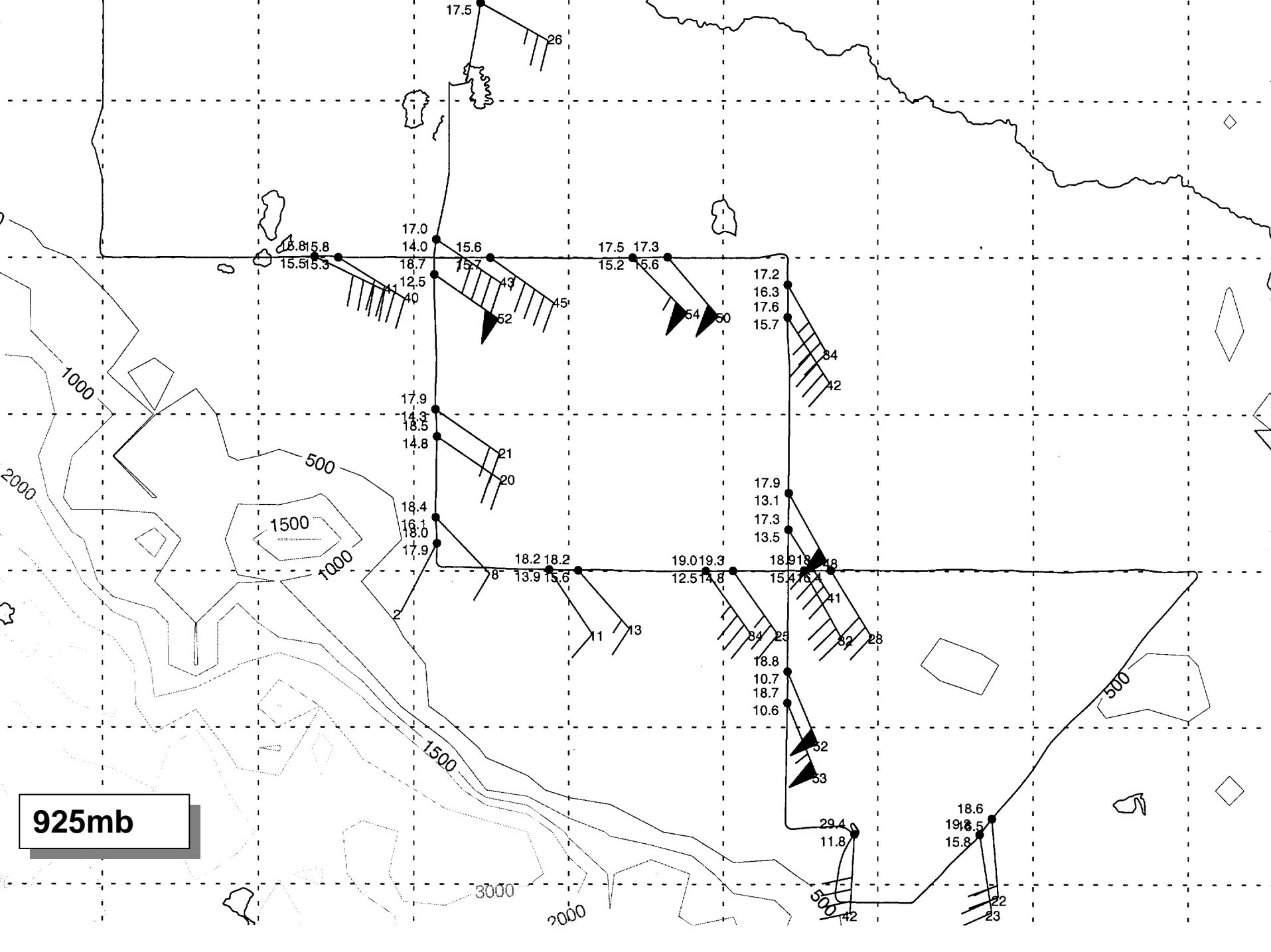
QuickTime™ and a
Animation decompressor
are needed to see this picture.

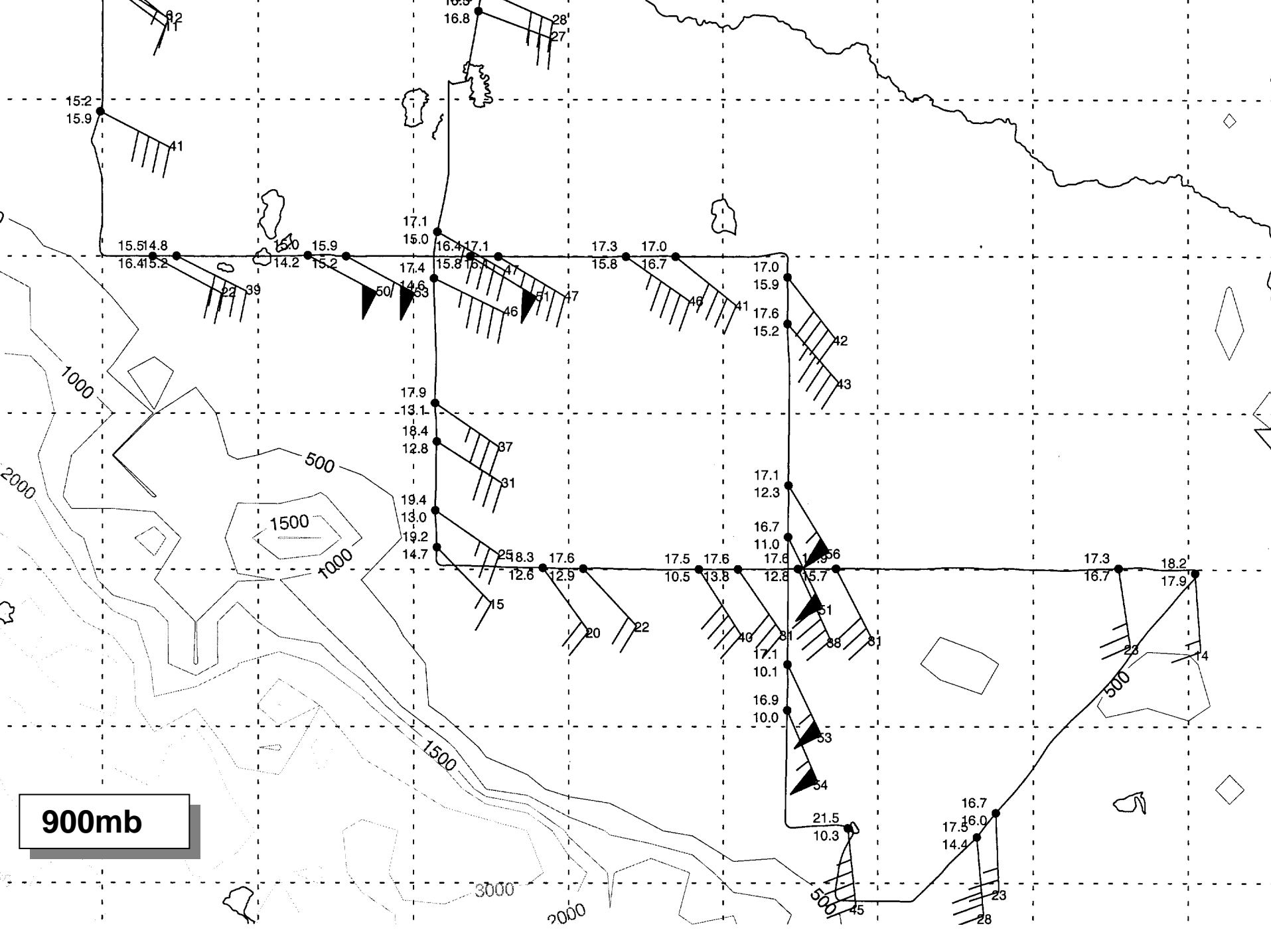
isotachs (m/s) 850 mb Fri 12Z 24Jan2003



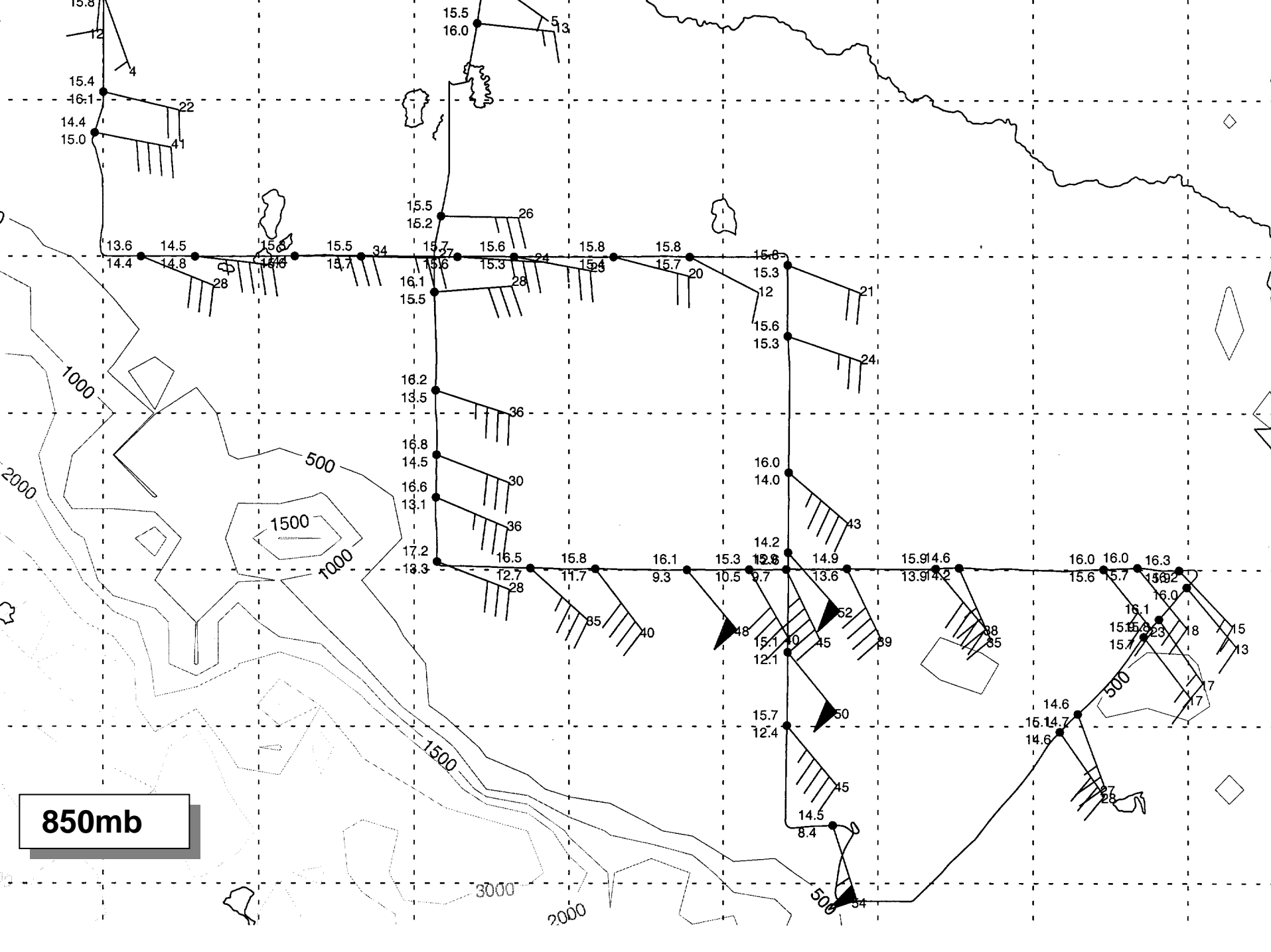


950mb

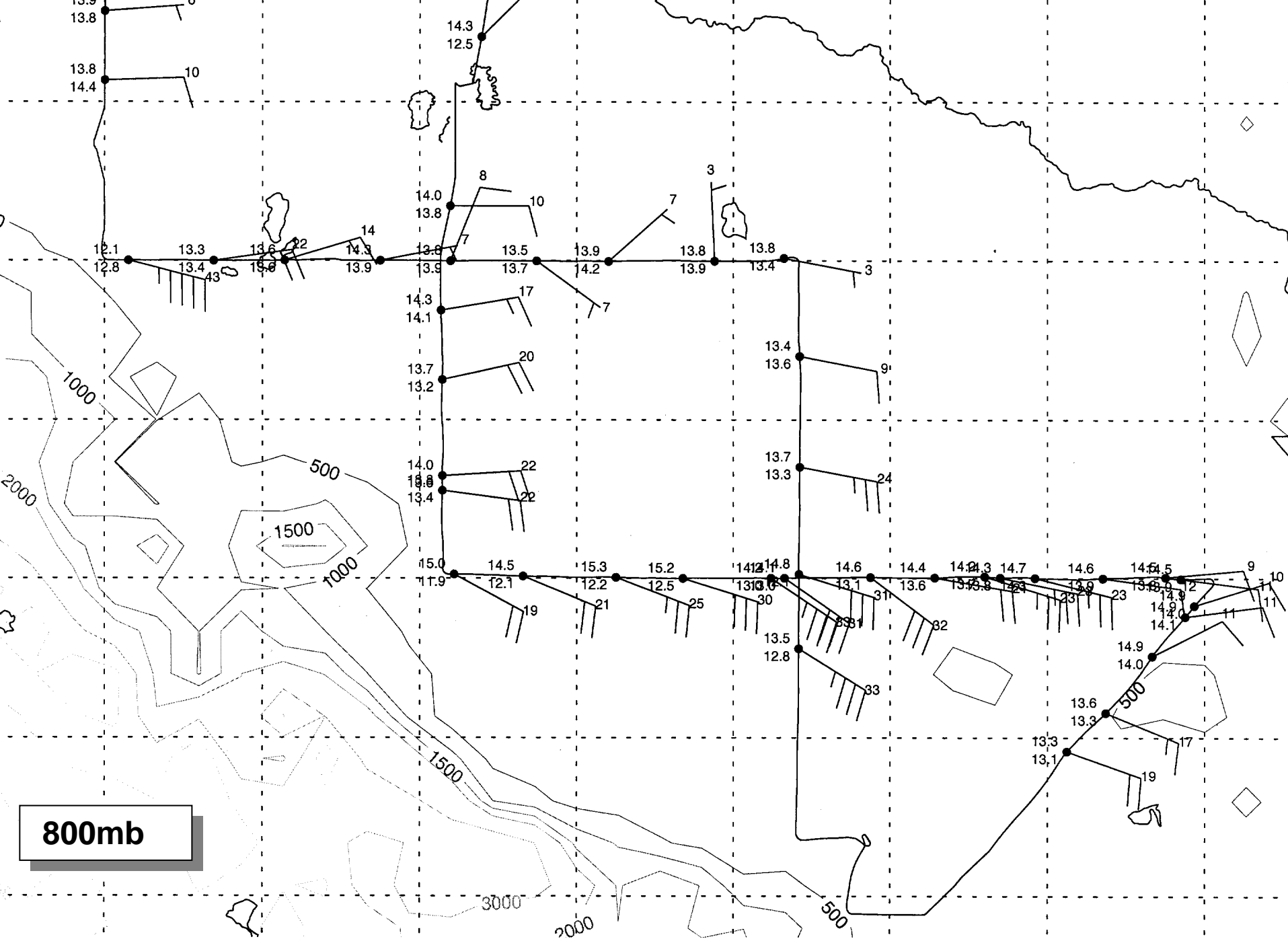




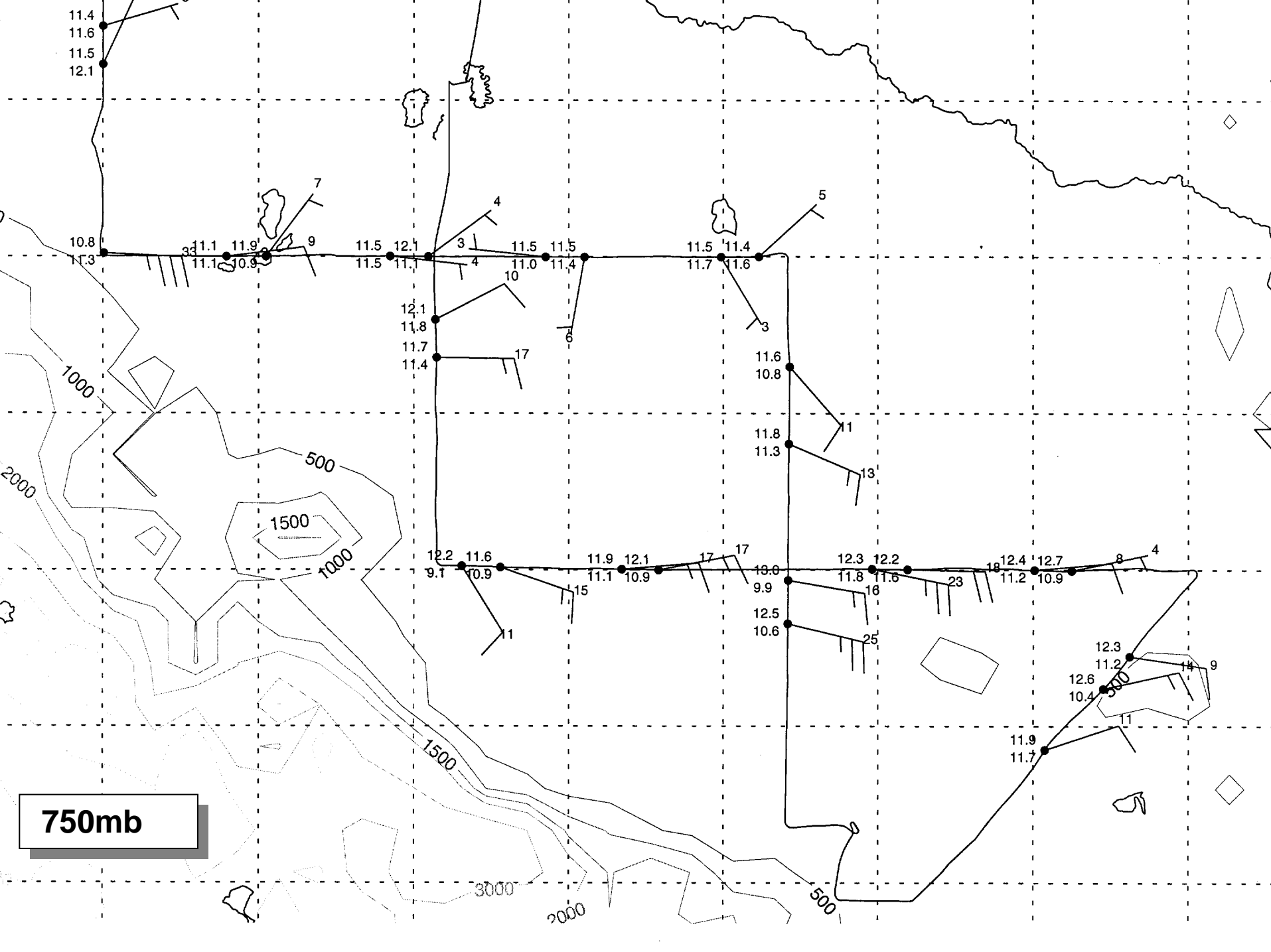
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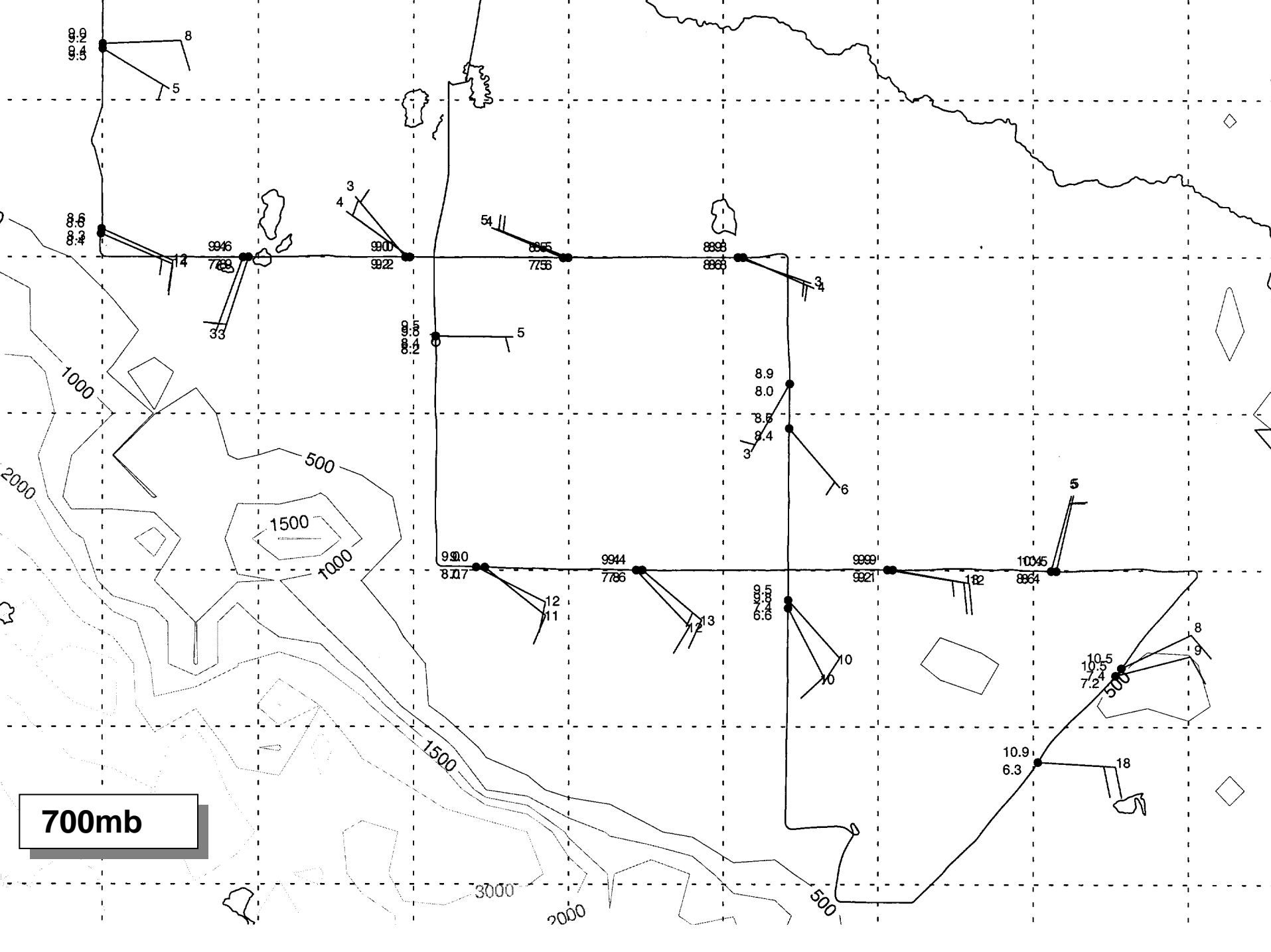
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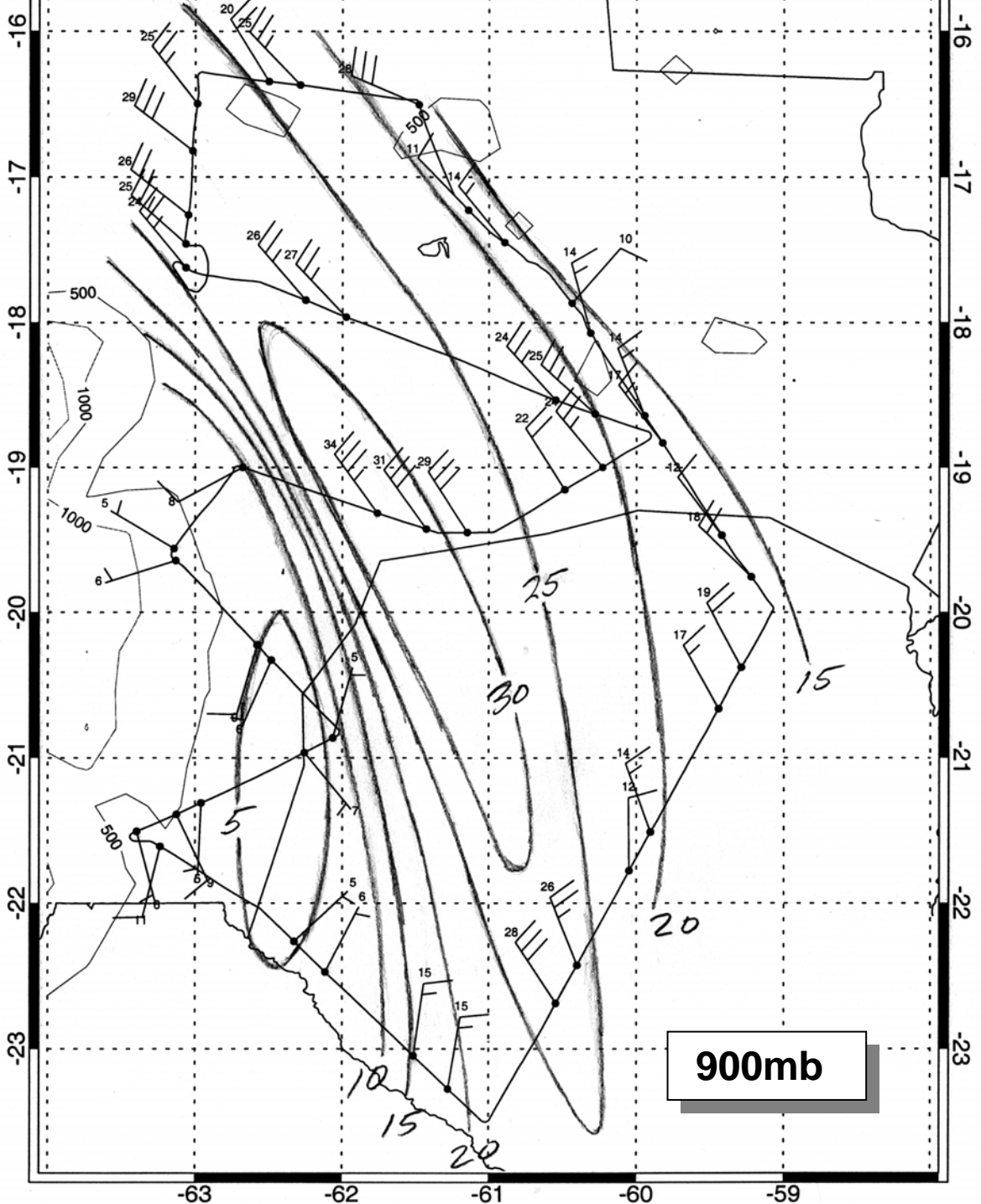
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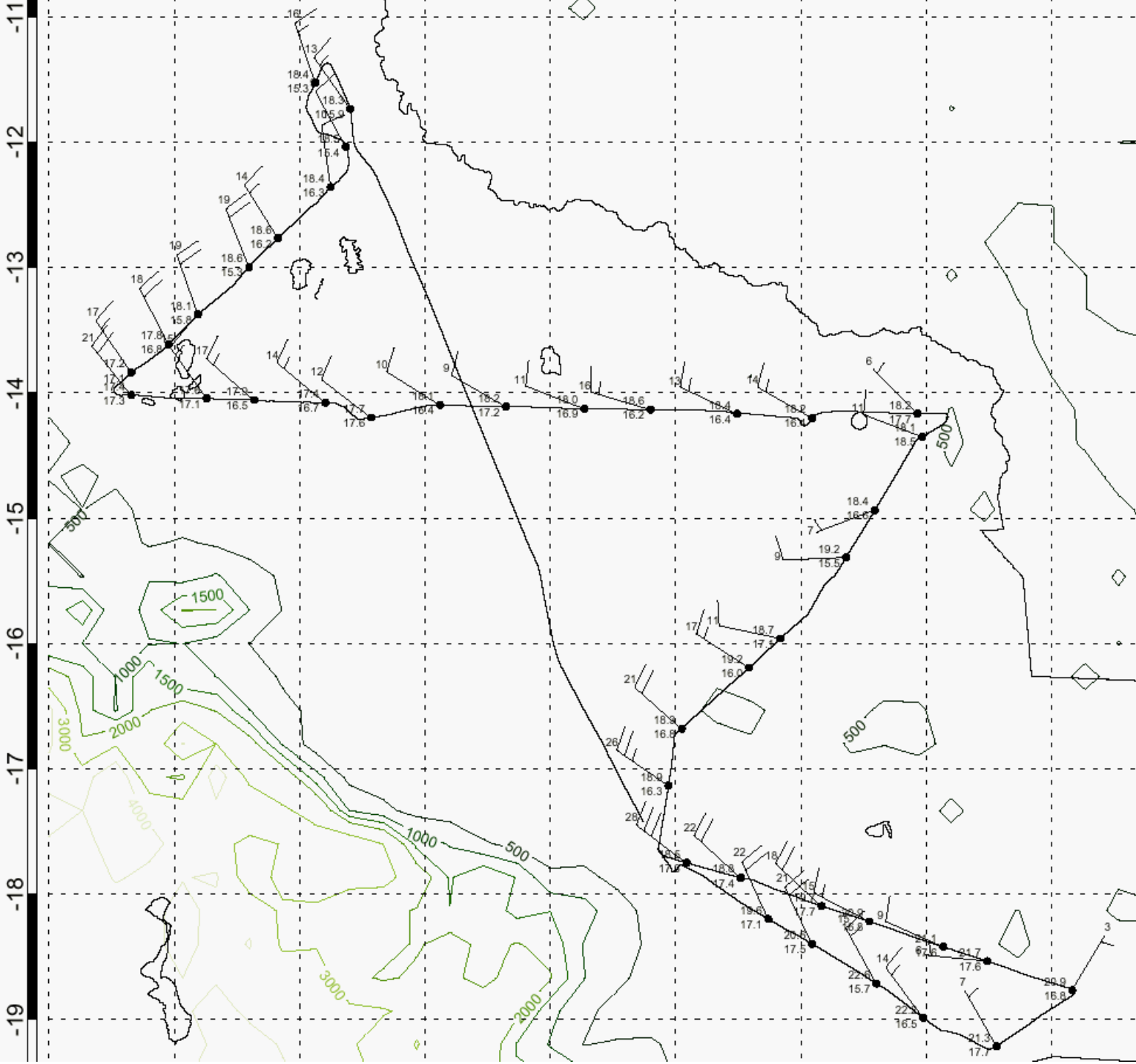


750mb

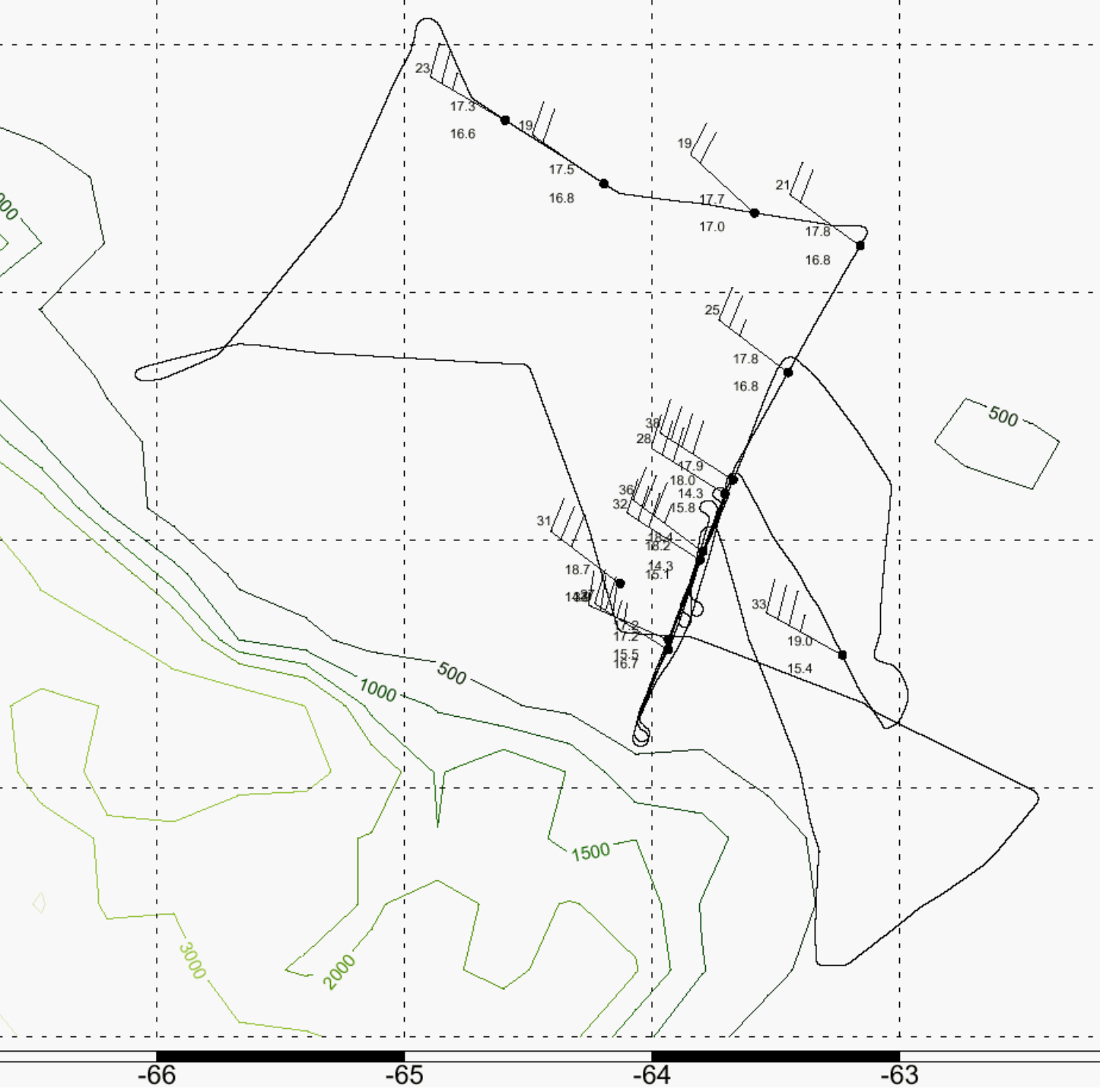


700mb

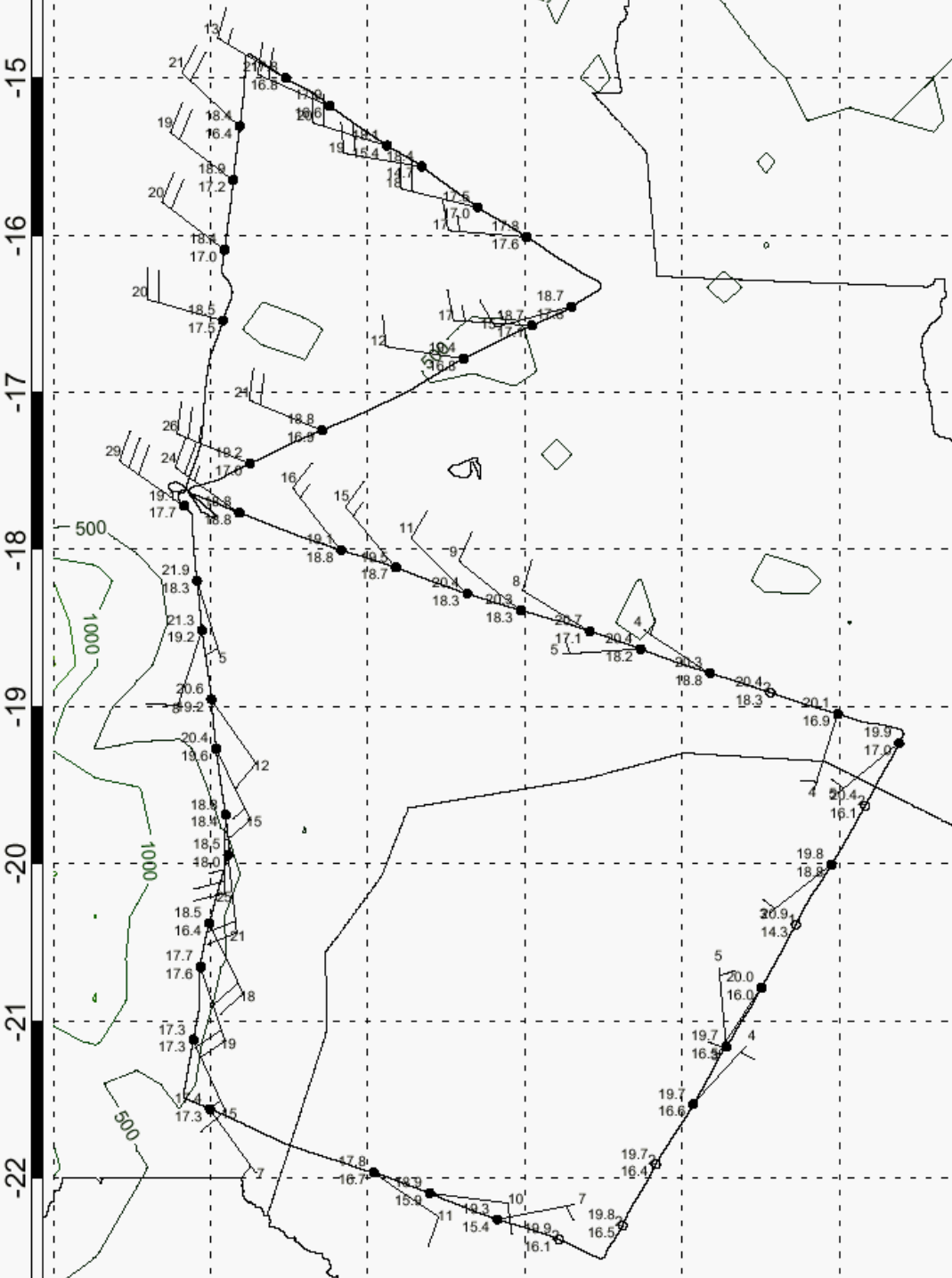




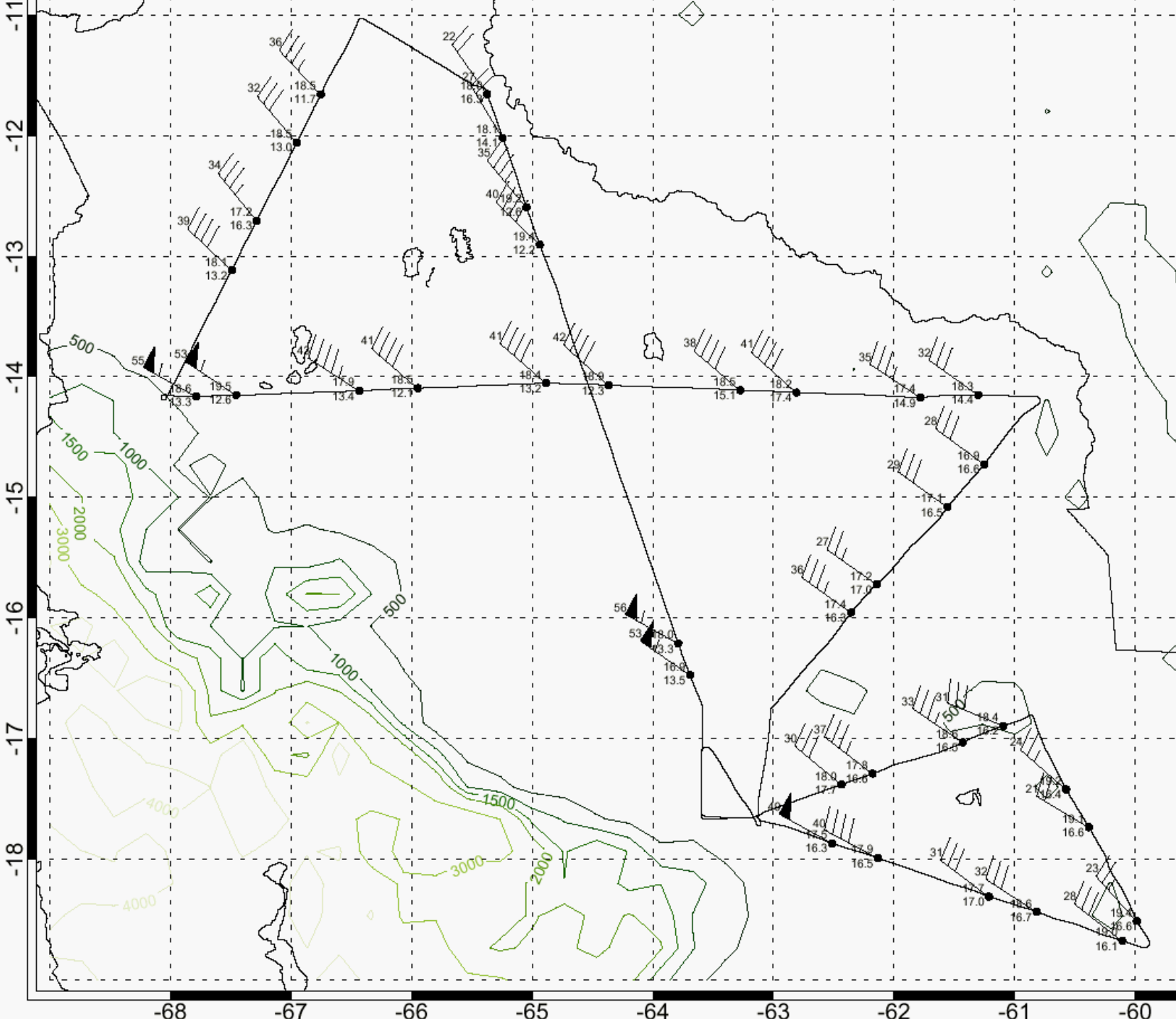
Jan 15th
LLJ flight
(weak jet)



Jan 17th
LLJ flight
detailed
horiz/vertical
structure
near mountains



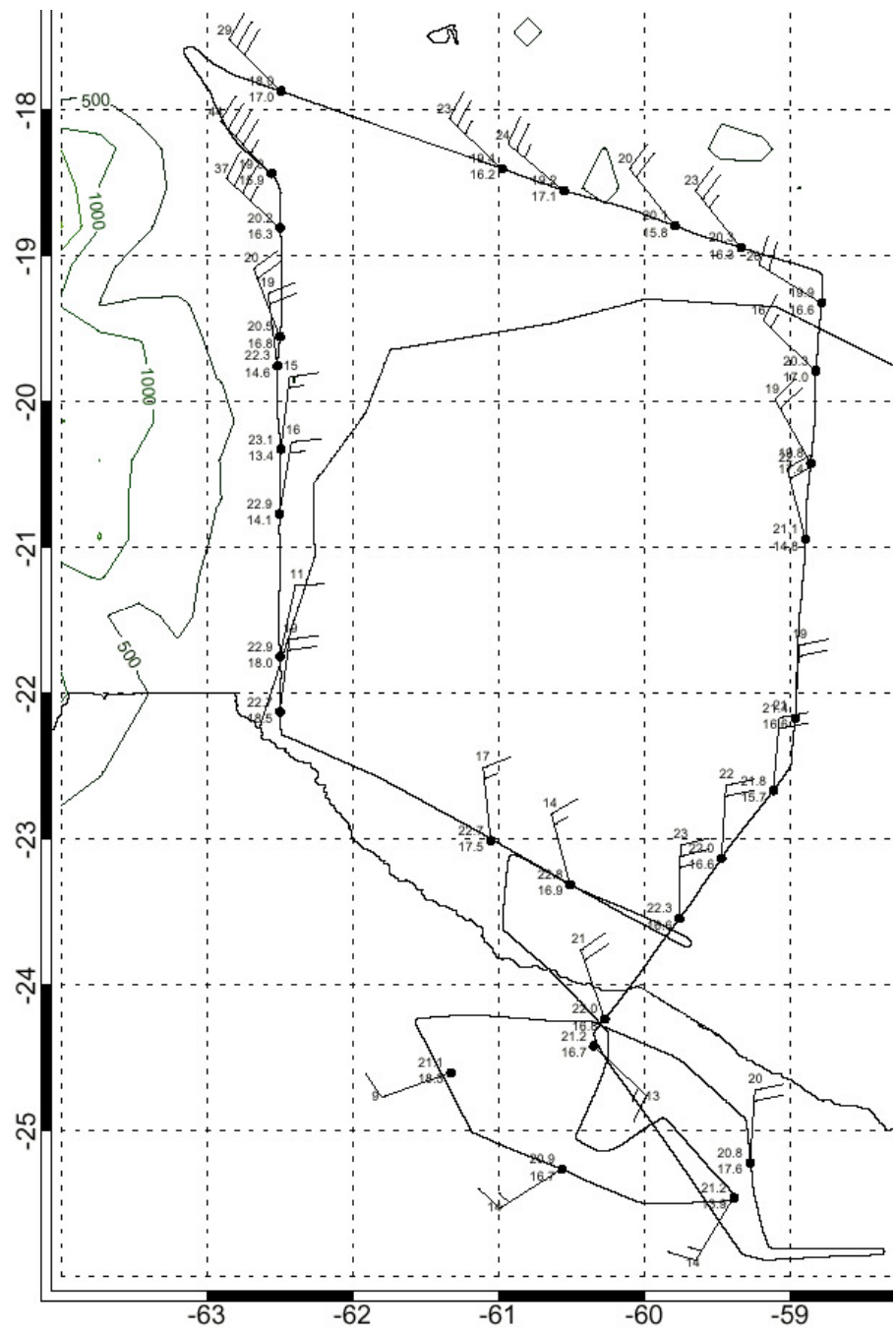
Jan 18th
LLJ and
weak frontal
boundary flight

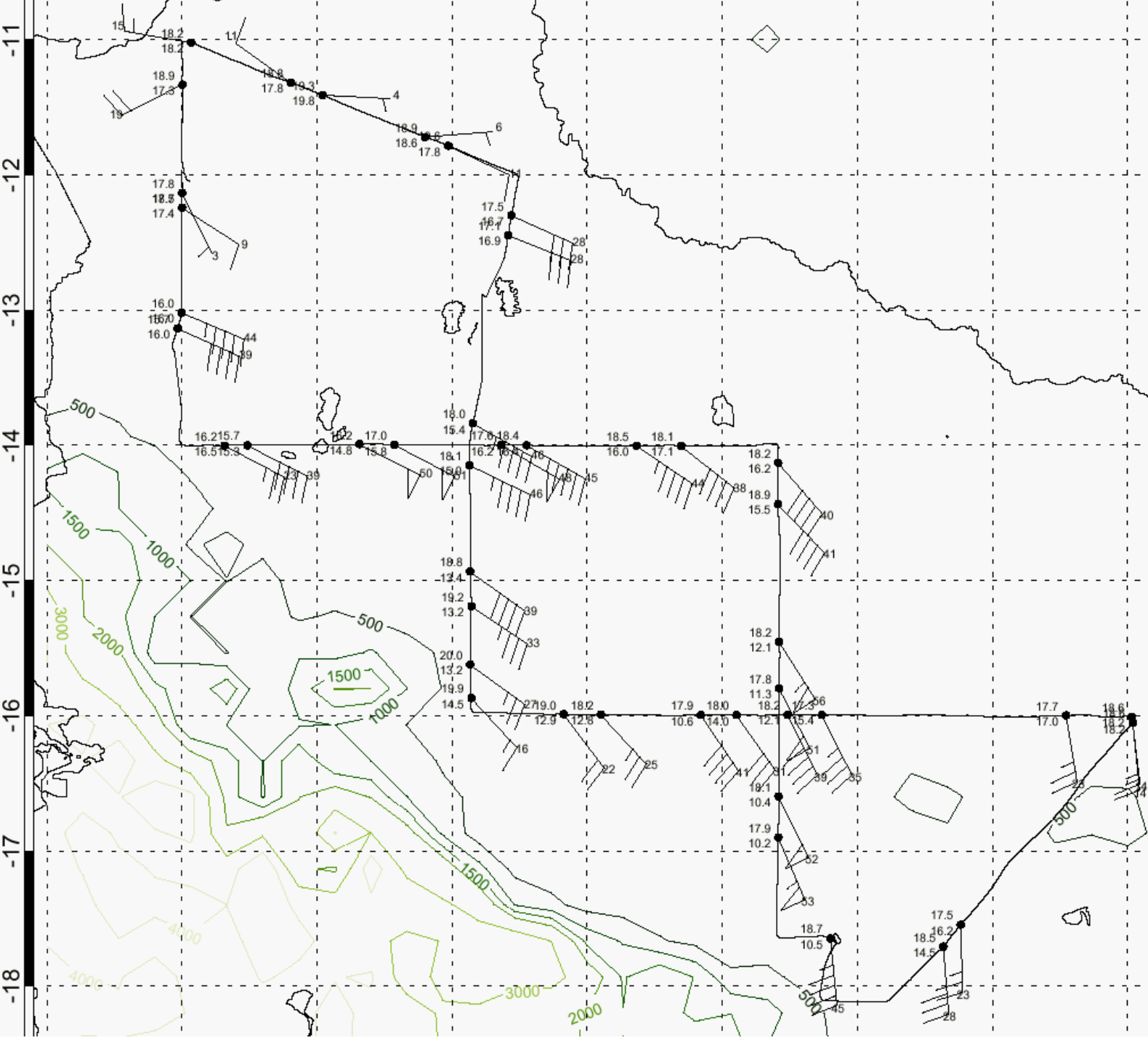


Jan 21
strong
LLJ flgt

January 22
834mb

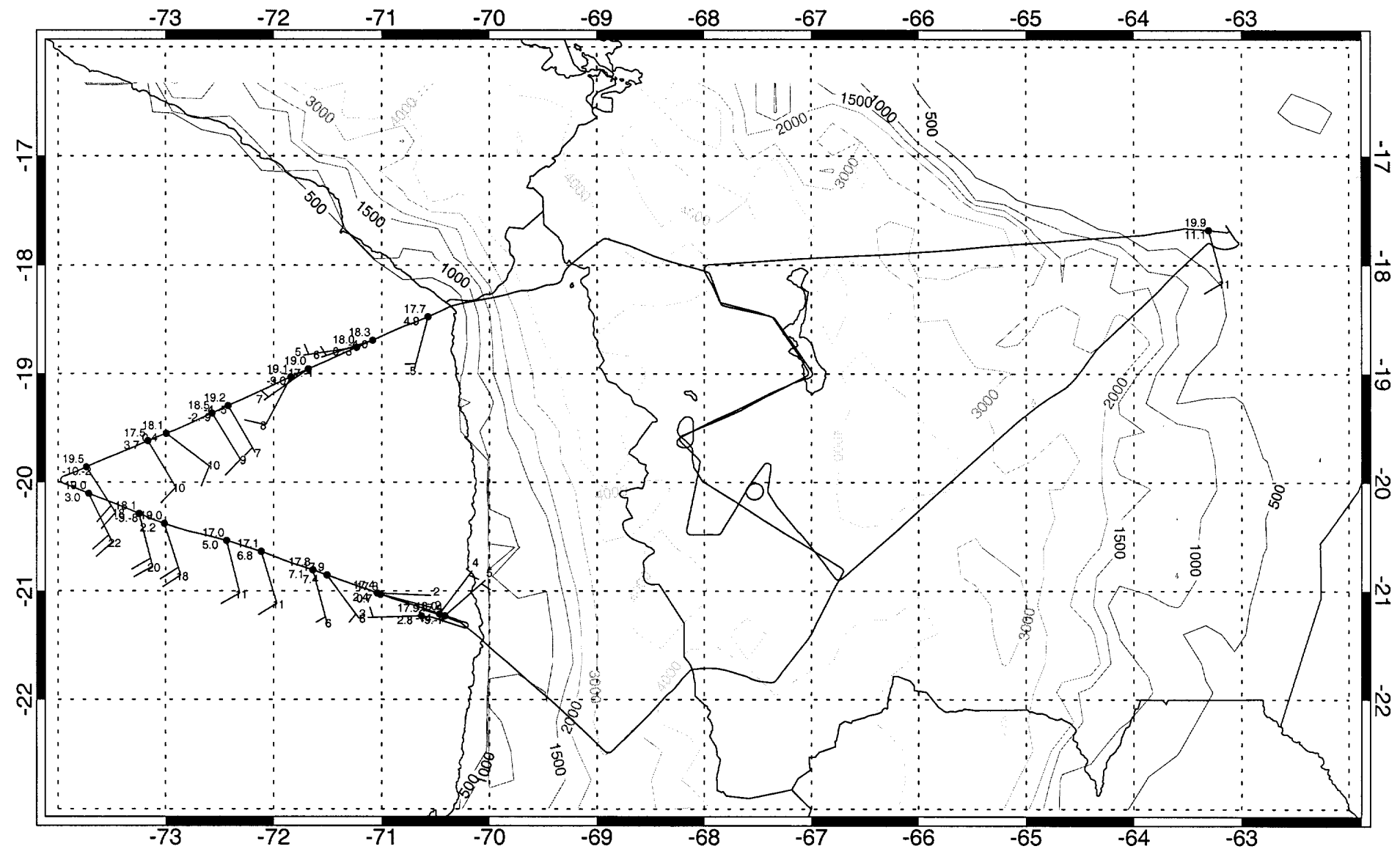
MCS flight / LLJ



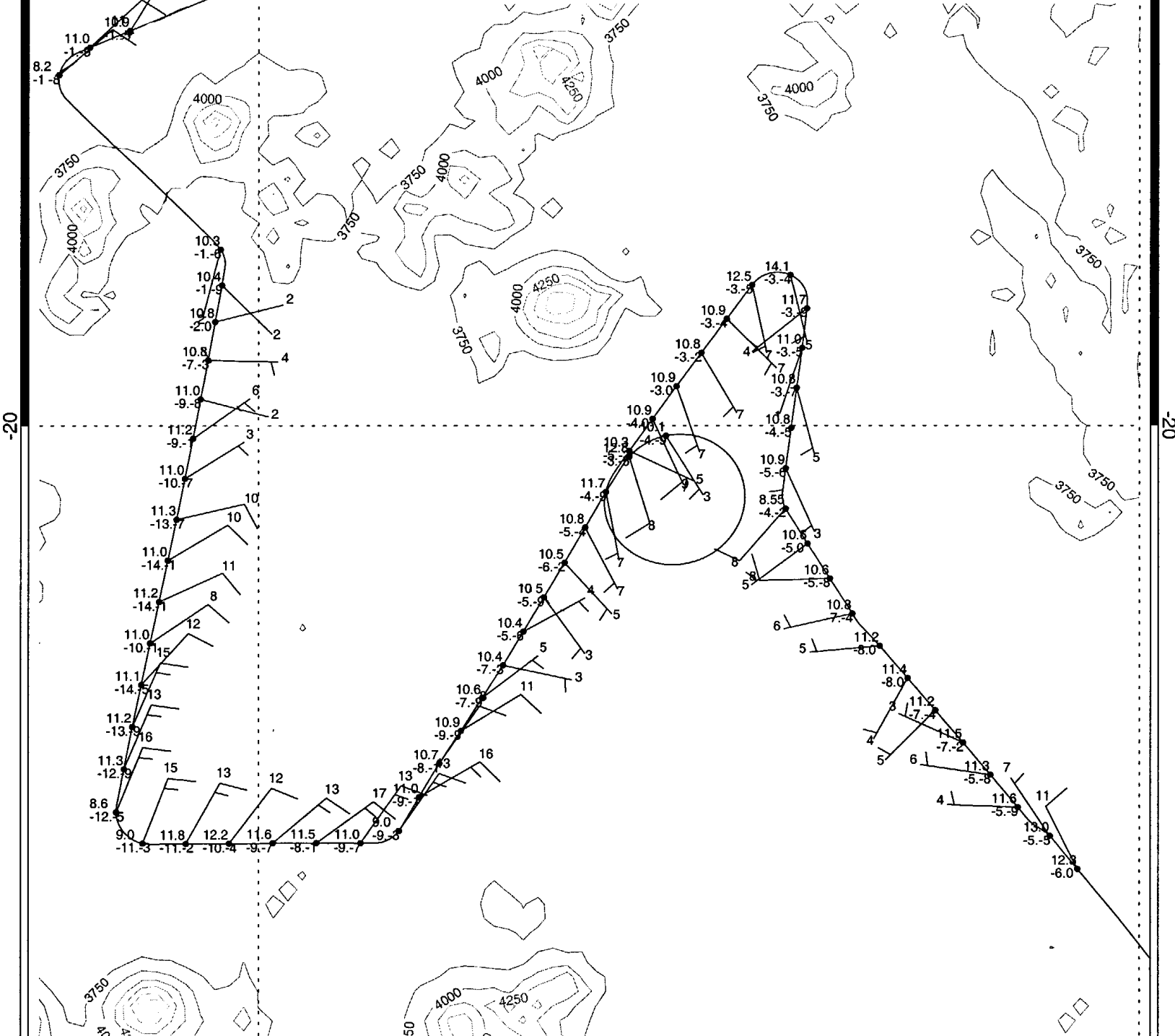


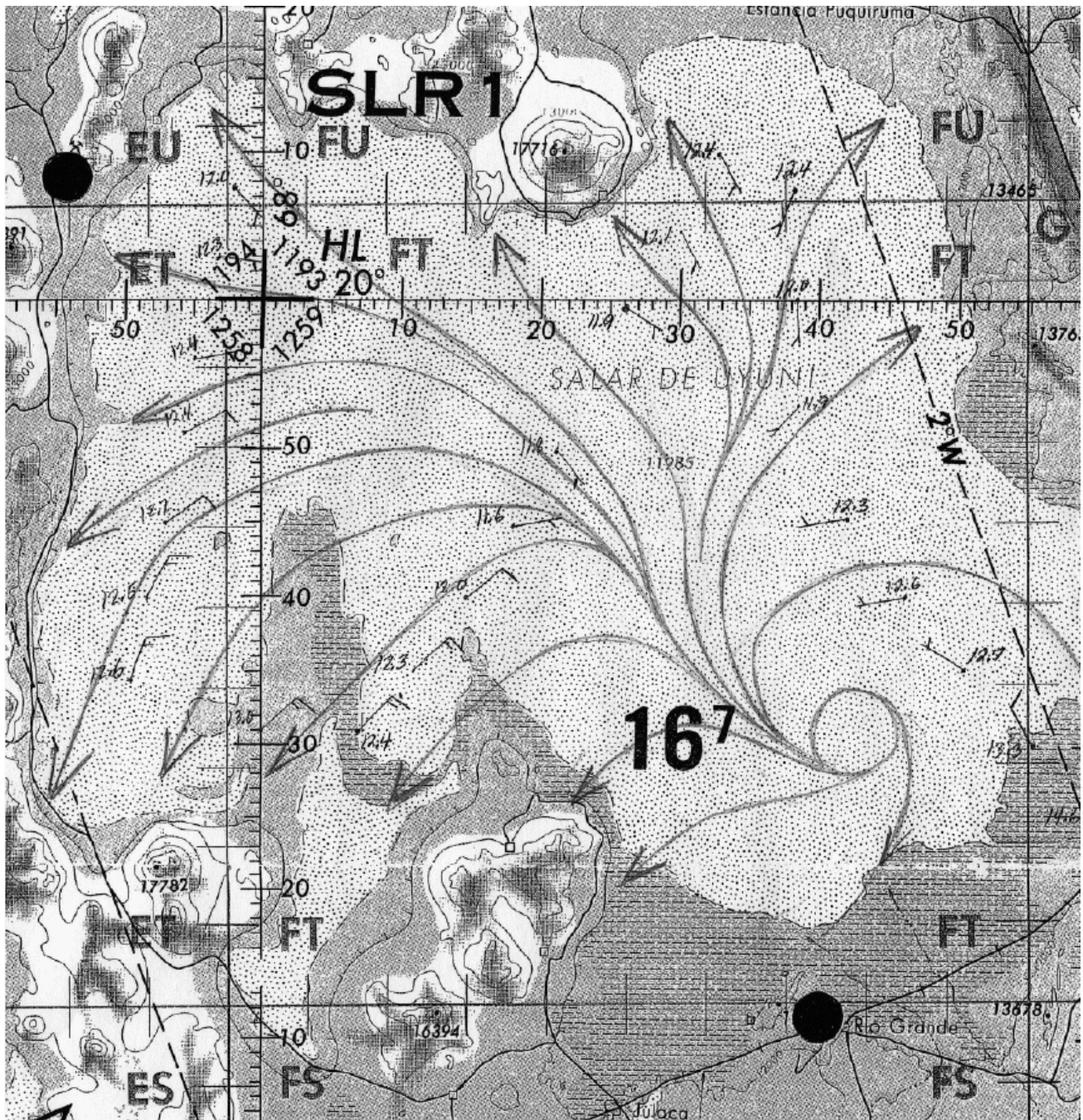
Jan 24
southerly
surge flgt
900mb

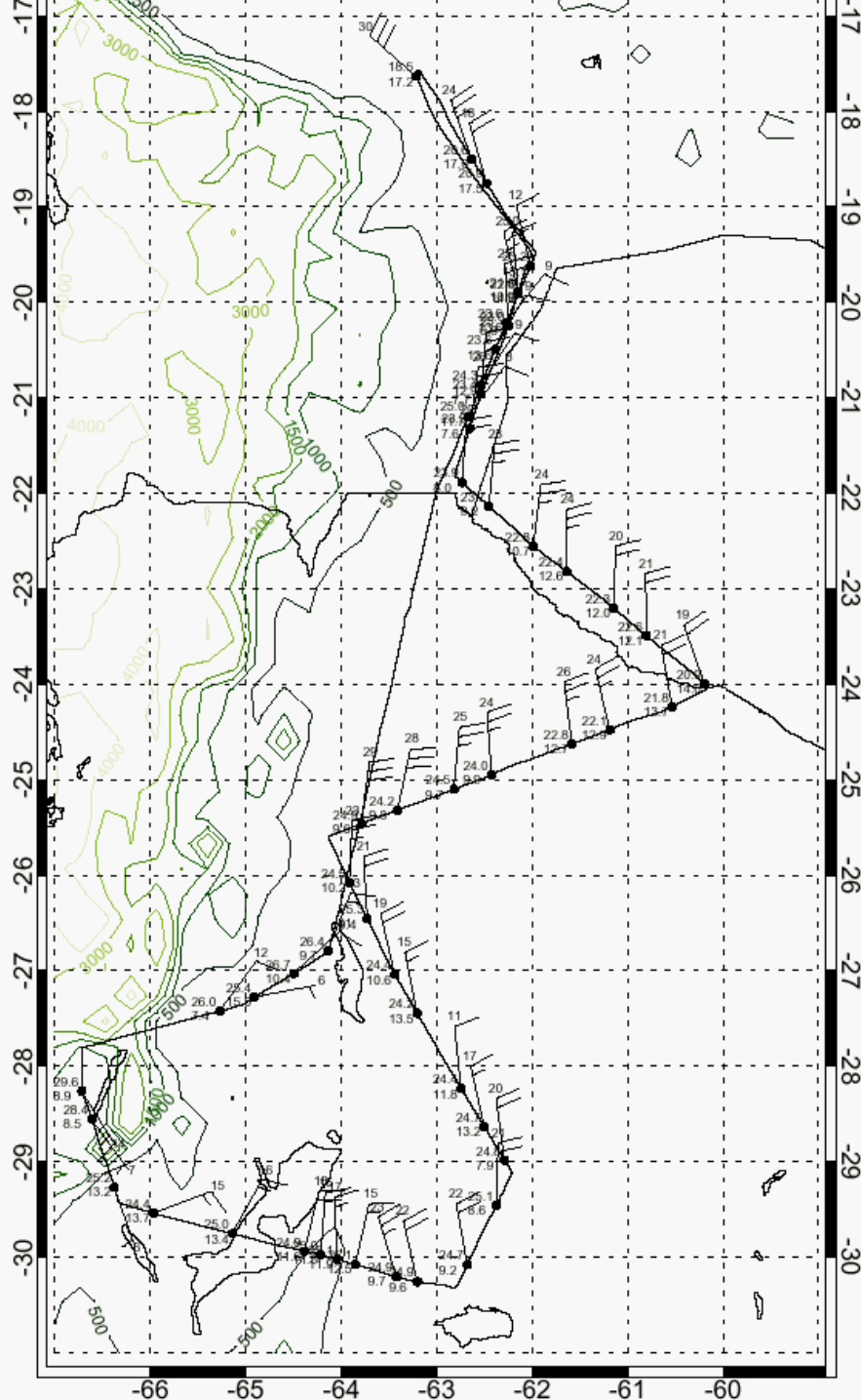
Jan 28th Altiplano and SE. Pacific flight



Uyuni Salt Flat flight data at 633mb







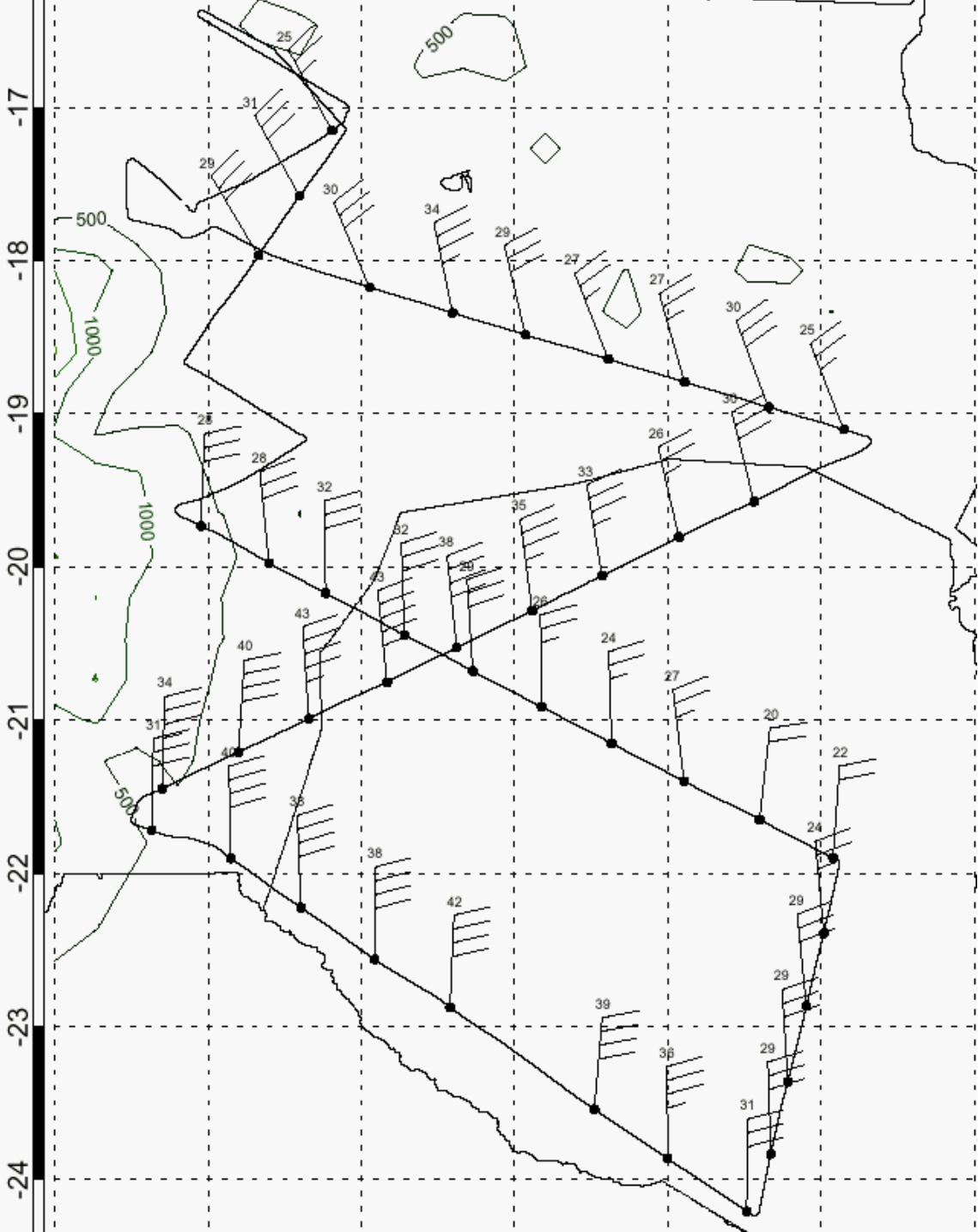
Feb 1st

Heat low and

Andean barrier

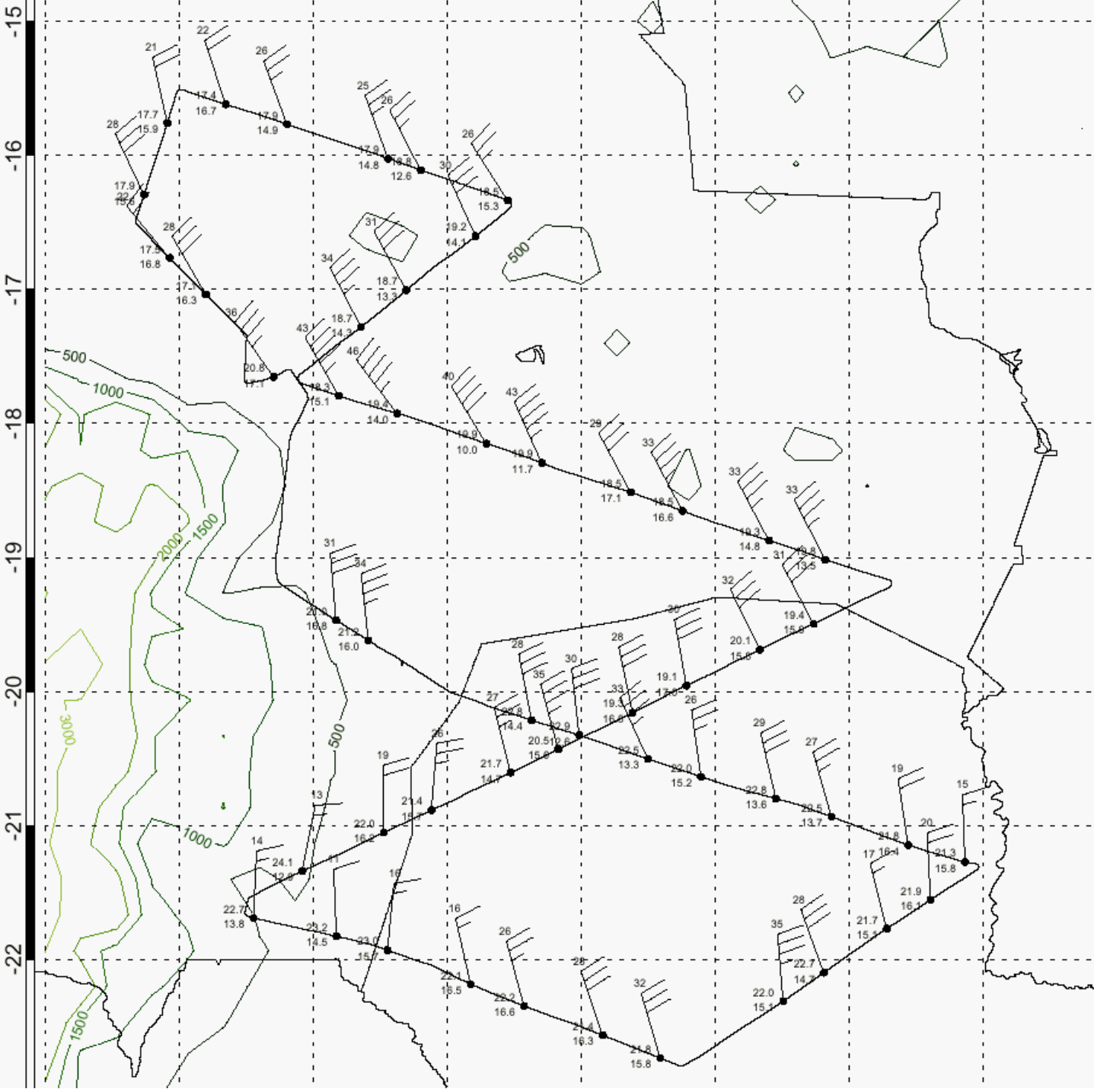
jet flight



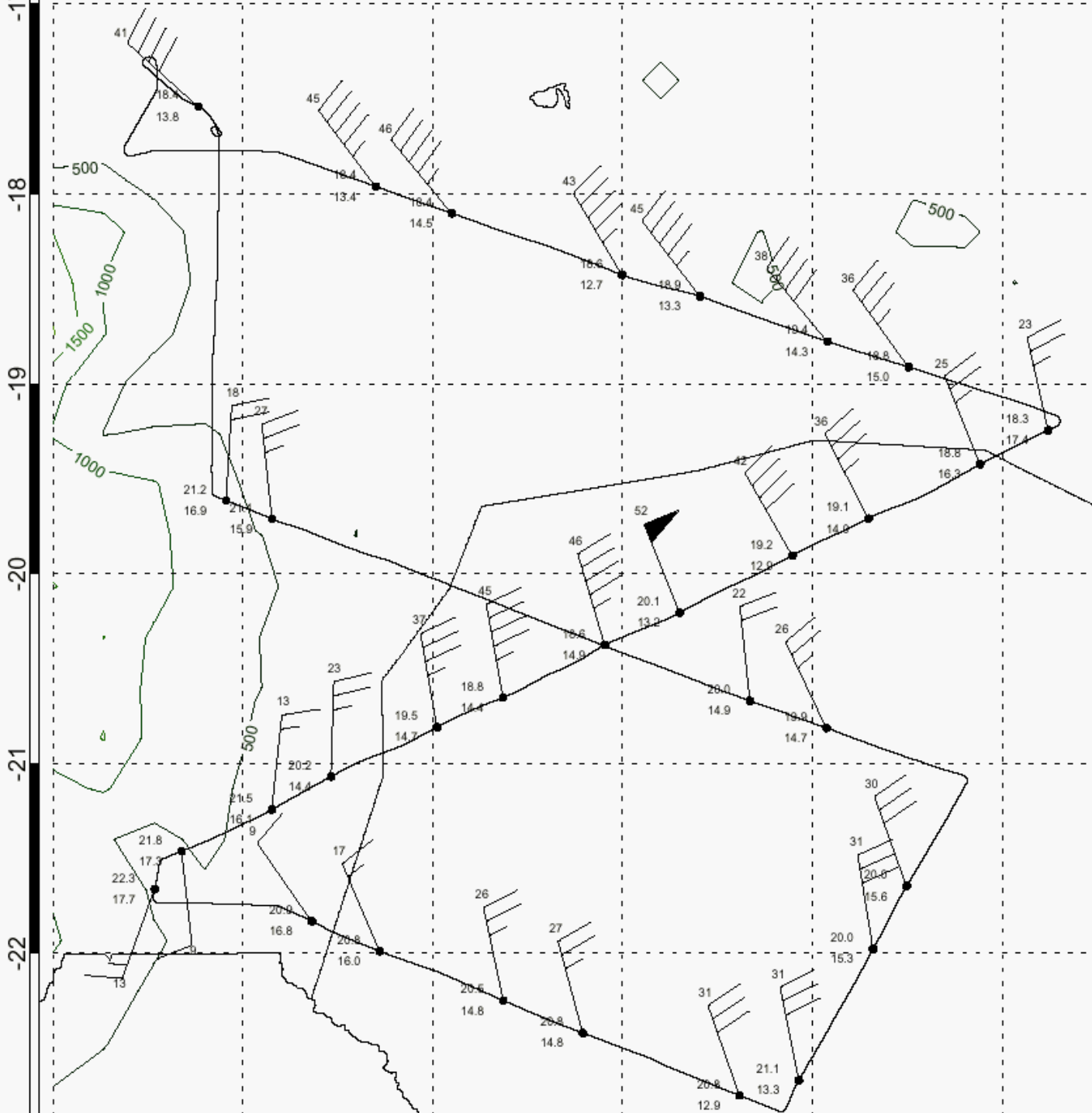


Feb 4th

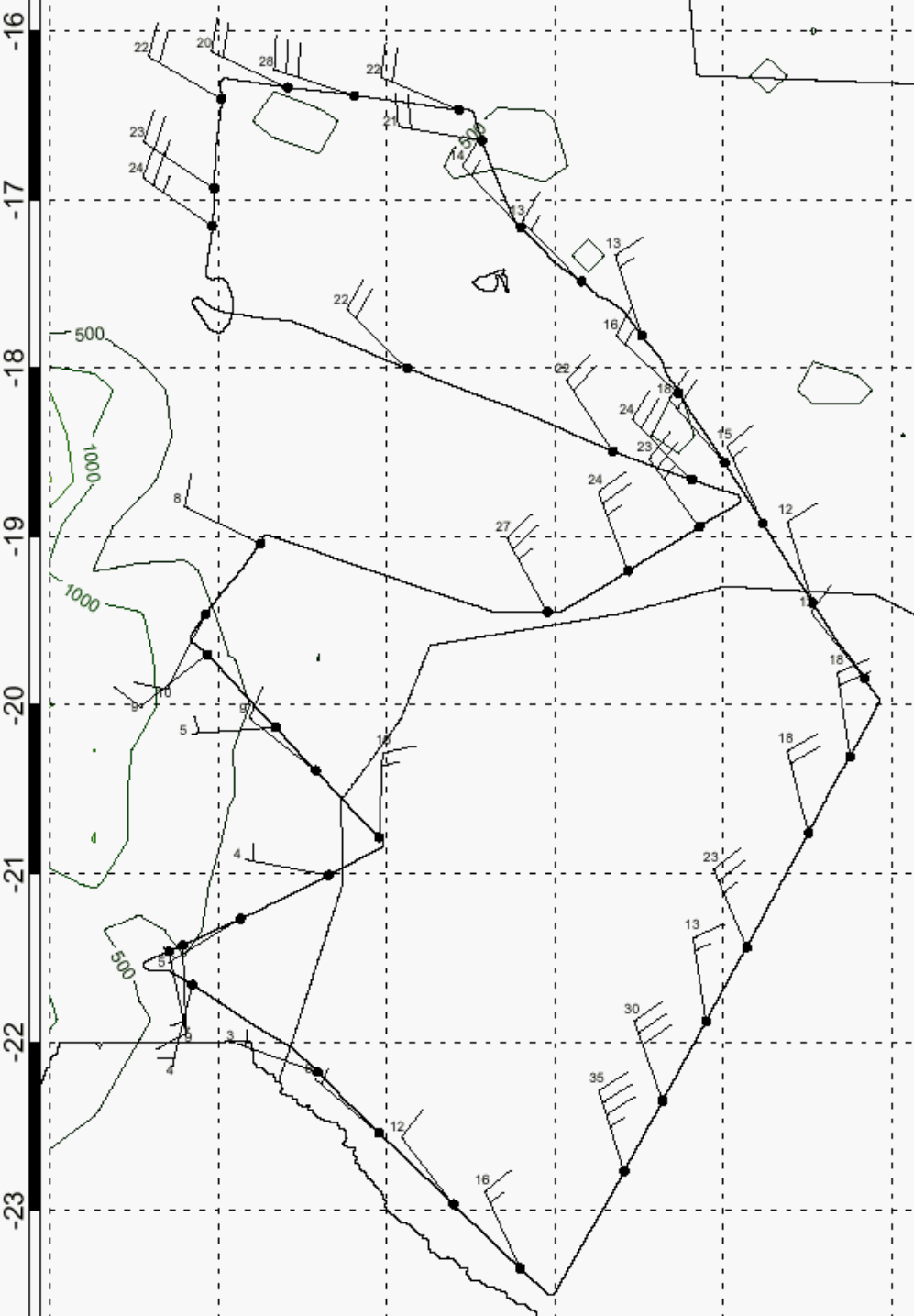
LLJ flight



Feb 6th
LLJ flight



Feb 7th
LLJ flight



Feb 8th
LLJ flight