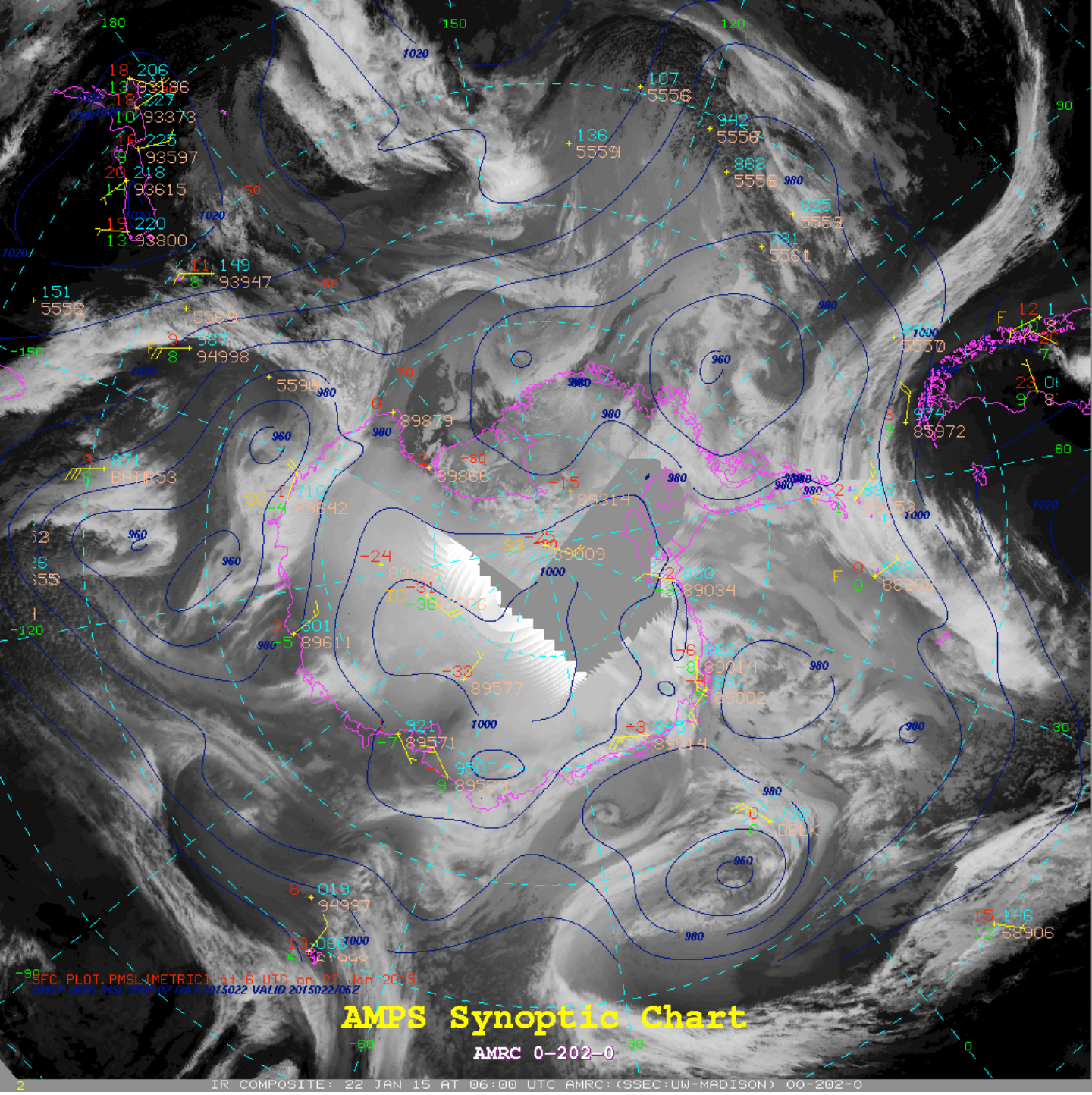
ORCAS Morning Weather Update

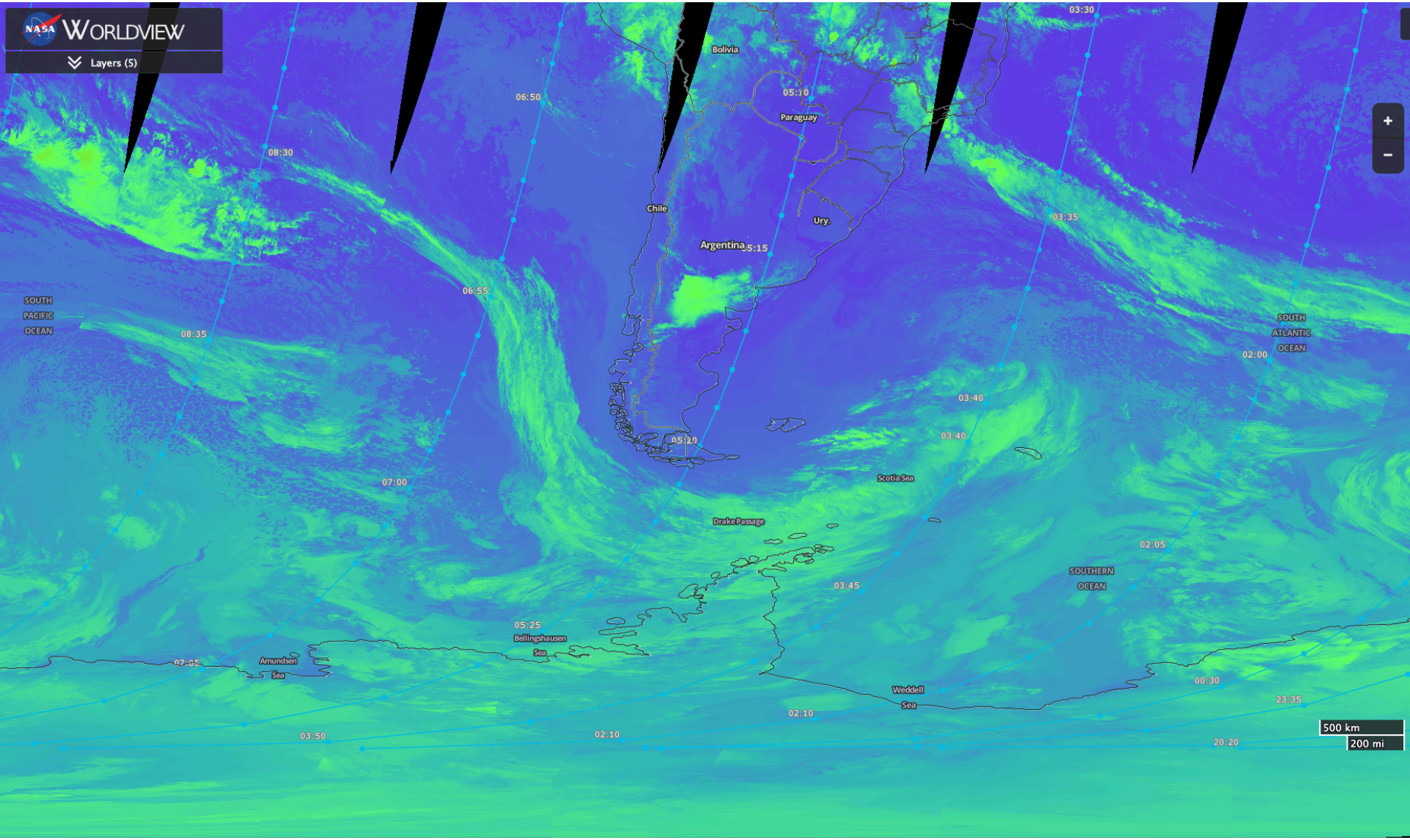
22-23 JAN, 2015

Shawn Honomichl and Jim Bresch

ORCAS Forecast Team

No major forecast changes


SFC PLOT.PMSL(METRIC) at 6 UTC on 22 Jan 2015
AMPS Synoptic Chart
AMRC 0-202-0
IR COMPOSITE: 22 JAN 15 AT 06:00 UTC AMRC:(SSEC:UW-MADISON) 00-202-0

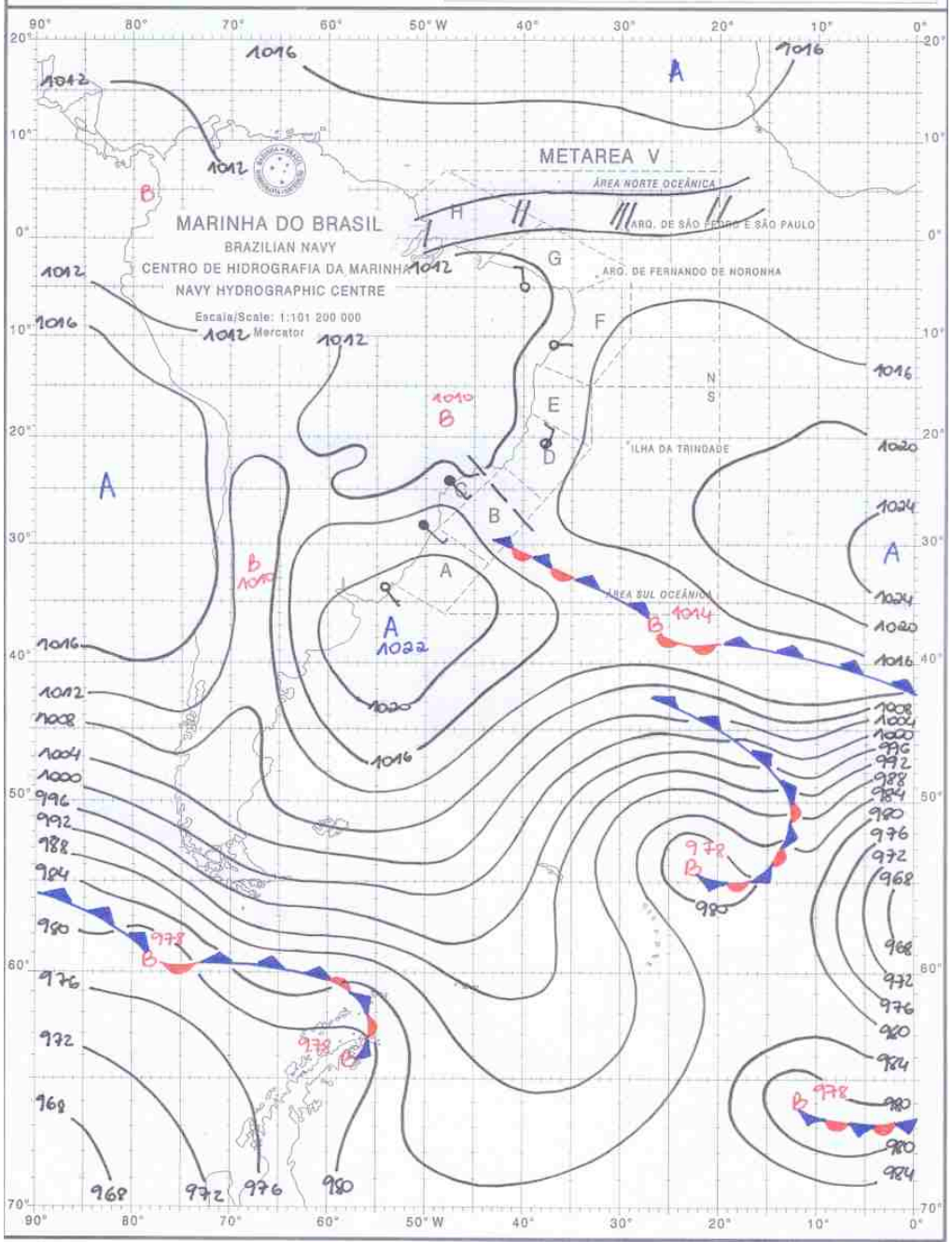

WORLDVIEW
Layers (5)
Bolivia
Paraguay
Chile
Ury.
Argentina
SOUTH PACIFIC OCEAN
SOUTH ATLANTIC OCEAN
SOUTHERN OCEAN
Scotia Sea
Drake Passage
Bellingshausen Sea
Amundsen Sea
Weddell Sea
03:30
05:10
06:50
08:30
05:15
03:35
06:55
08:35
02:00
03:40
03:40
05:20
07:00
02:05
03:45
05:25
07:05
00:30
23:35
02:10
03:50
02:10
20:20
500 km
200 mi

CARTA DE PRESSÃO AO NÍVEL DO MAR
SEA LEVEL PRESSURE CHART

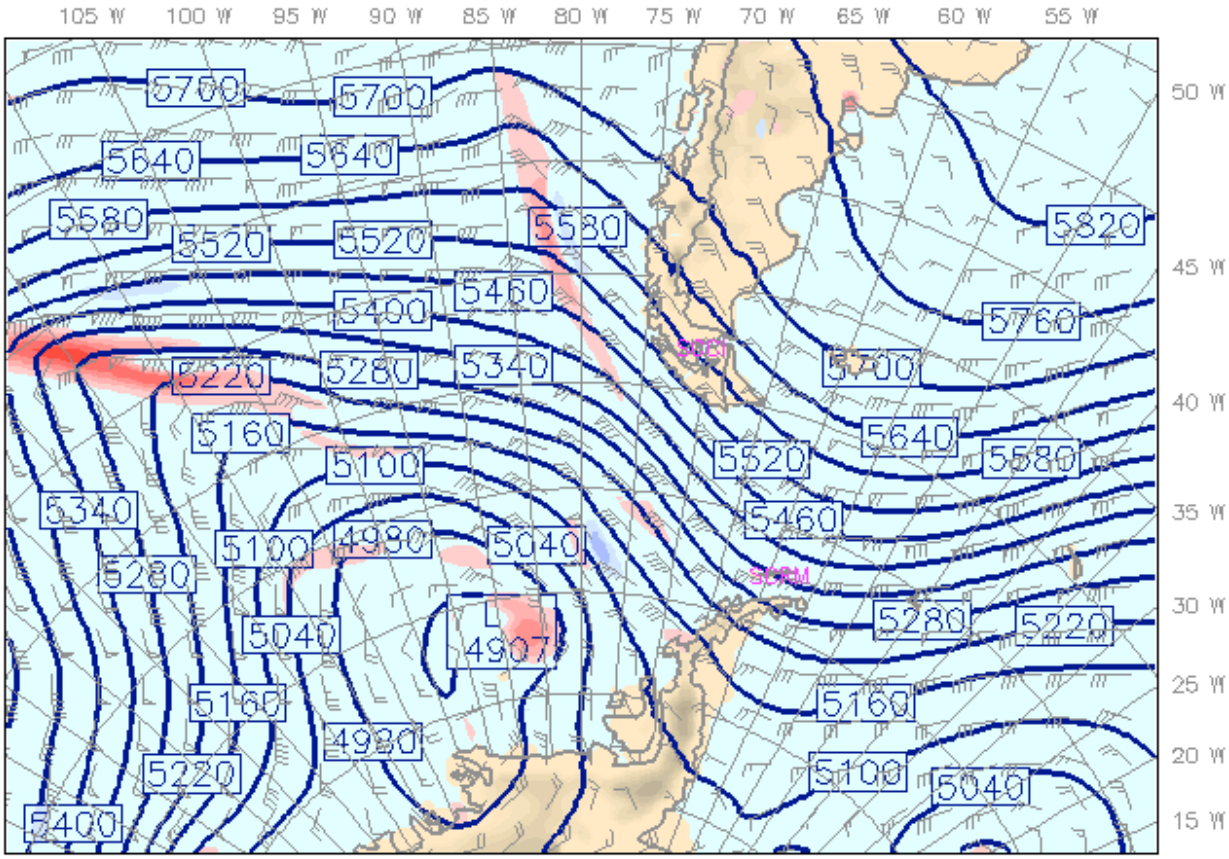
Referência/Reference: 2200002/JAN/2015

Solicita-se aos navios que informem sua posição, direção e intensidade do vento, altura das ondas e pressão atmosférica ao Centro de Hidrografia da Marinha/Serviço Meteorológico Marinho.

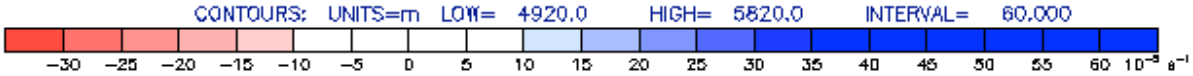
All ships are welcome to inform their position, wind direction and speed, waves height and atmospheric pressure to Navy Hydrographic Centre/Marine Meteorological Service.



NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 6 h Valid: 12 UTC Thu 22 Jan 15 (09 LST Thu 22 Jan 15)
Relative vorticity at pressure = 500 hPa
Geopotential height at pressure = 500 hPa
Horizontal wind vectors at pressure = 500 hPa sm= 1

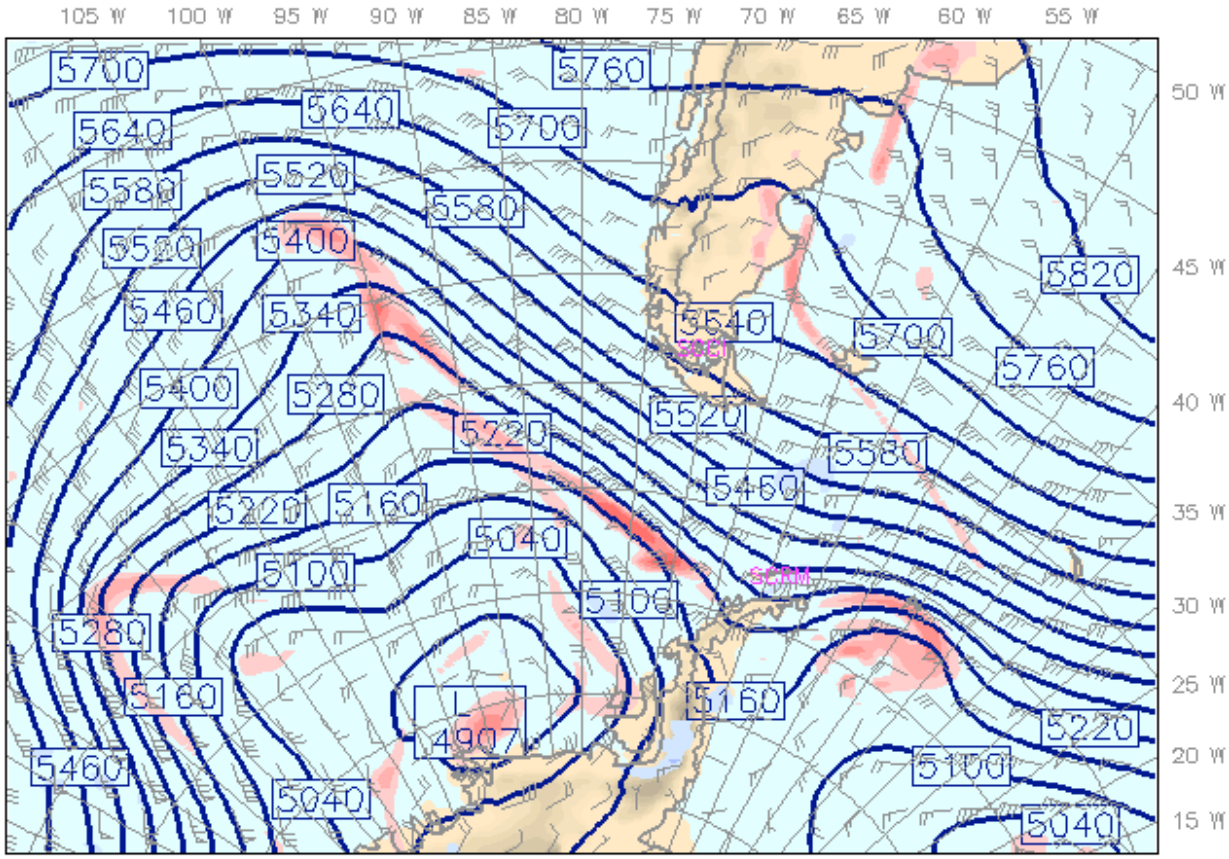


BARB VECTORS: FULL BARB = 10 kts
CONTOURS: UNITS=m LOW= 4920.0 HIGH= 5820.0 INTERVAL= 60.000

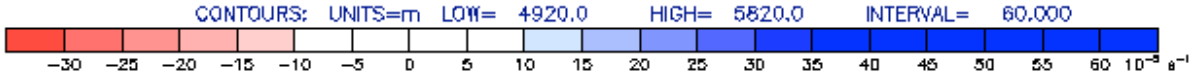


OUTPUT FROM METGRID V3.7 x = 180, y = 128, 30 km, 27 levels

NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 30 h Valid: 12 UTC Fri 23 Jan 15 (09 LST Fri 23 Jan 15)
Relative vorticity at pressure = 500 hPa
Geopotential height at pressure = 500 hPa
Horizontal wind vectors at pressure = 500 hPa sm= 1

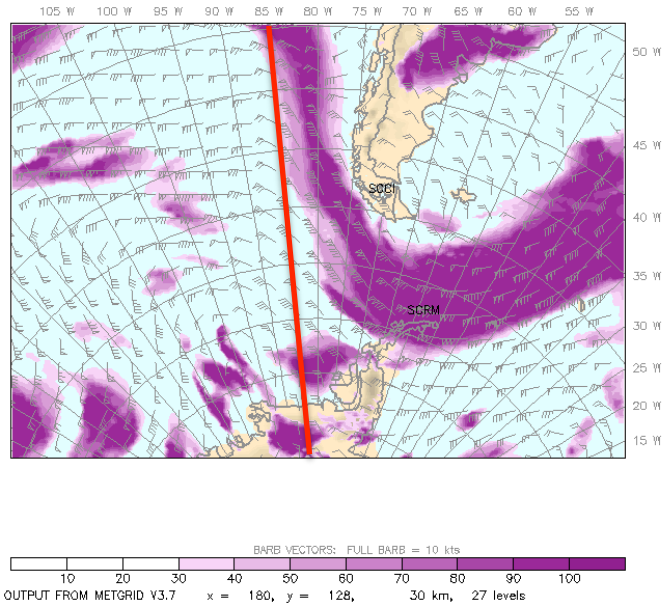


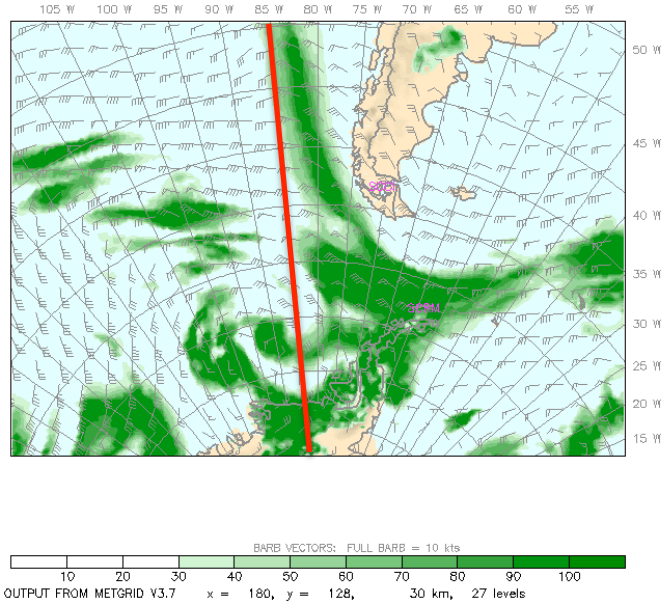
BARB VECTORS: FULL BARB = 10 kts
CONTOURS: UNITS=m LOW= 4920.0 HIGH= 5820.0 INTERVAL= 60.000



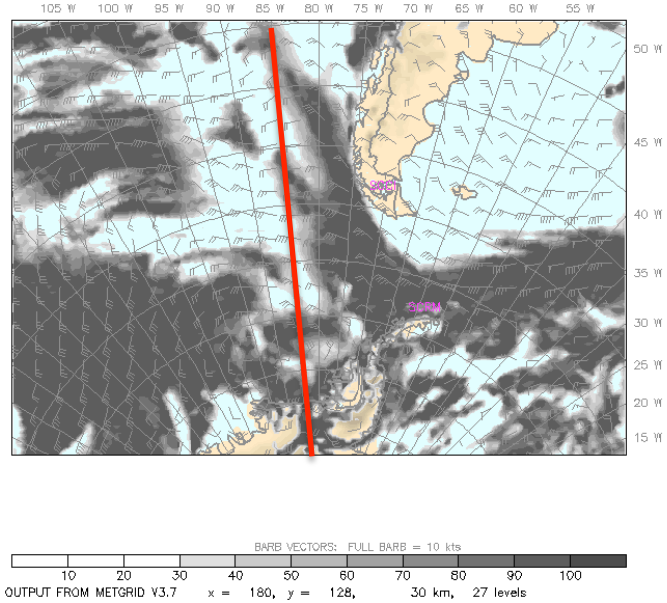
OUTPUT FROM METGRID V3.7 x = 180, y = 128, 30 km, 27 levels

NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 6 h Valid: 12 UTC Thu 22 Jan 15 (09 LST Thu 22 Jan 15)
High cloud fraction
Horizontal wind vectors at pressure = 250 hPa sm= 1



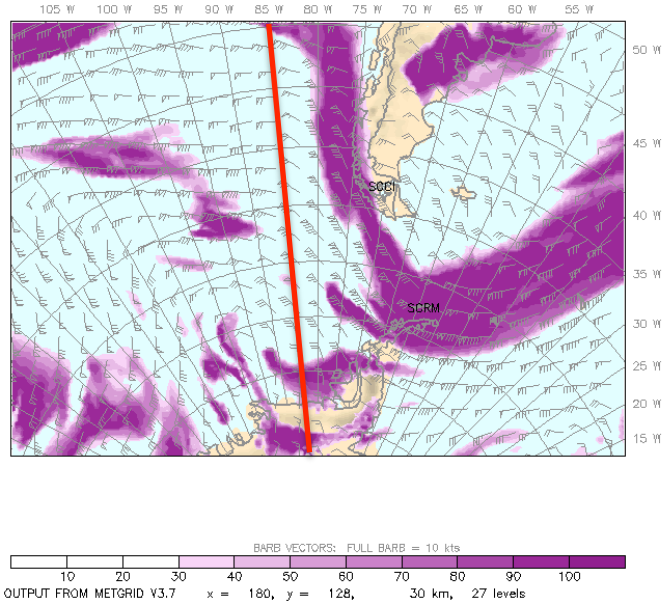


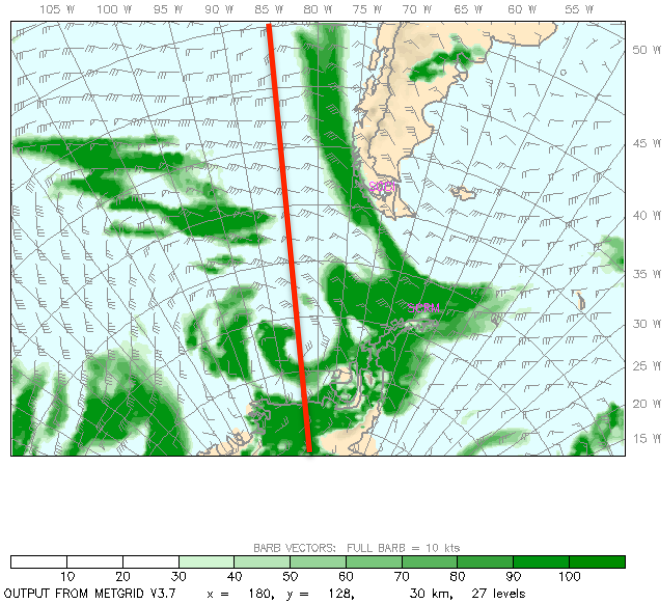
NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 6 h Valid: 12 UTC Thu 22 Jan 15 (09 LST Thu 22 Jan 15)
Low cloud fraction
Horizontal wind vectors at pressure = 900 hPa sm= 1



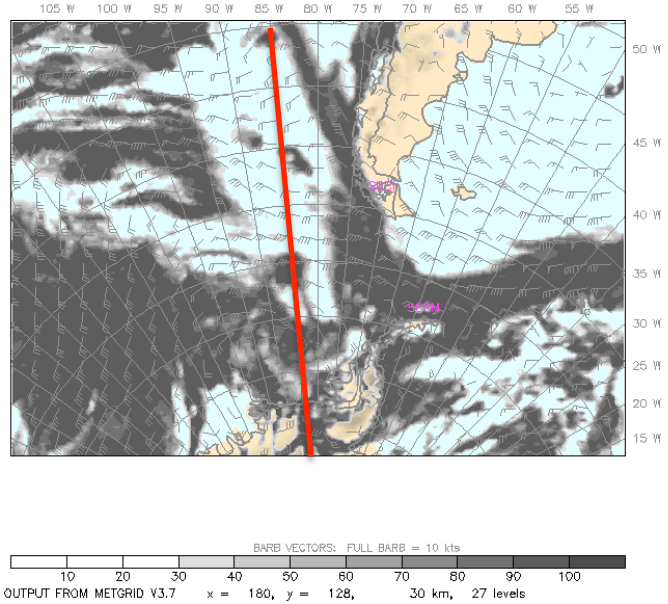
Keep in mind that their could be scattered clouds
In the southern Argentine Basin and Scotia Sea

NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 9 h Valid: 15 UTC Thu 22 Jan 15 (12 LST Thu 22 Jan 15)
High cloud fraction
Horizontal wind vectors at pressure = 250 hPa sm= 1

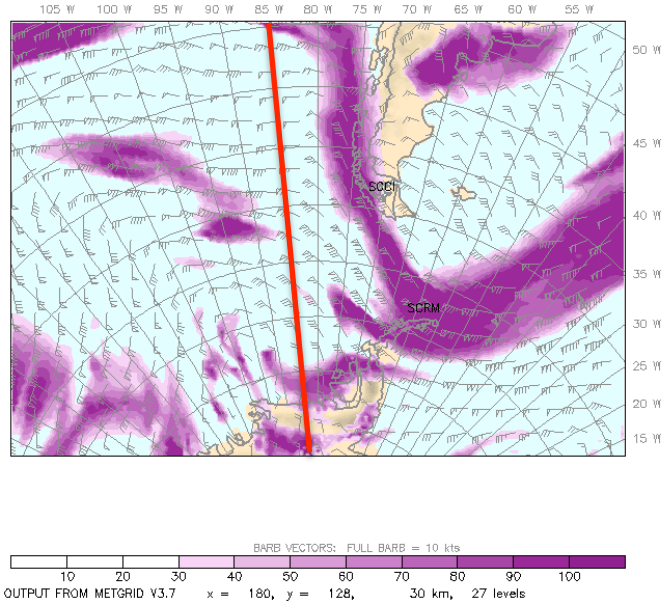


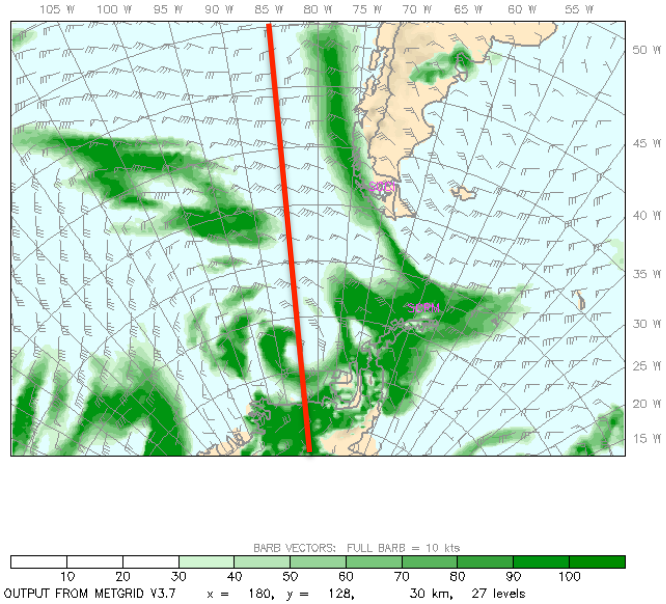


NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 9 h Valid: 15 UTC Thu 22 Jan 15 (12 LST Thu 22 Jan 15)
Low cloud fraction
Horizontal wind vectors at pressure = 900 hPa sm= 1

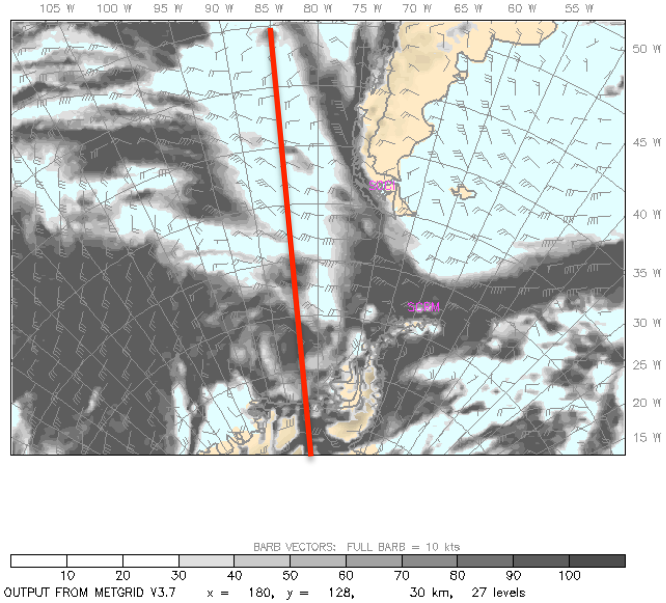


NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 12 h Valid: 18 UTC Thu 22 Jan 15 (15 LST Thu 22 Jan 15)
High cloud fraction
Horizontal wind vectors at pressure = 250 hPa sm= 1

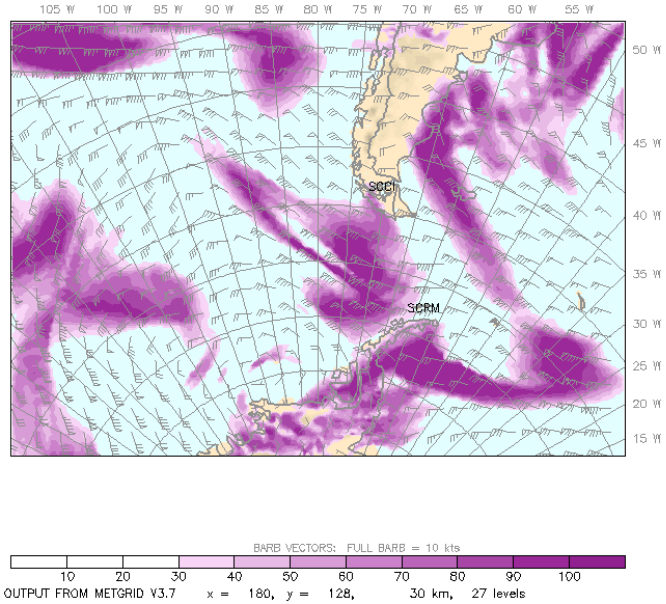


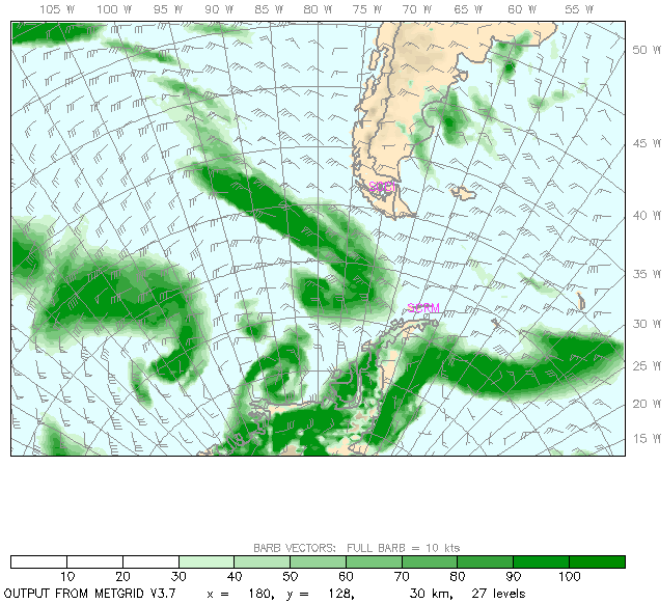


NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 12 h Valid: 18 UTC Thu 22 Jan 15 (15 LST Thu 22 Jan 15)
Low cloud fraction
Horizontal wind vectors at pressure = 900 hPa sm= 1

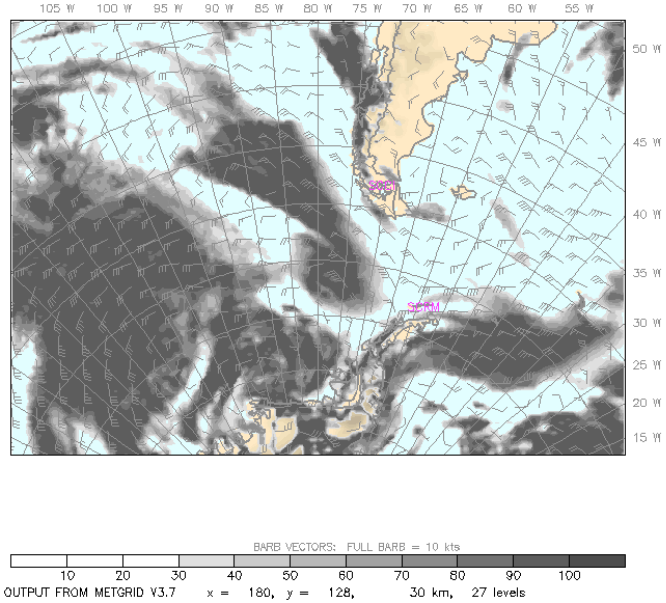


NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 30 h Valid: 12 UTC Fri 23 Jan 15 (09 LST Fri 23 Jan 15)
High cloud fraction
Horizontal wind vectors at pressure = 250 hPa sm= 1

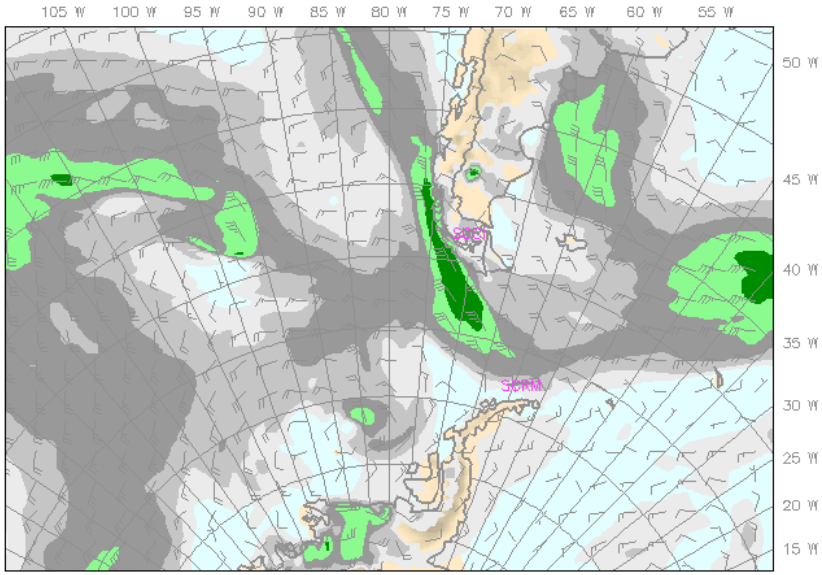




NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 30 h Valid: 12 UTC Fri 23 Jan 15 (09 LST Fri 23 Jan 15)
Low cloud fraction
Horizontal wind vectors at pressure = 900 hPa sm= 1



NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 6 h Valid: 12 UTC Thu 22 Jan 15 (09 LST Thu 22 Jan 15)
Horizontal wind speed at k-index = 26
Horizontal wind vectors at k-index = 26 sm= 1

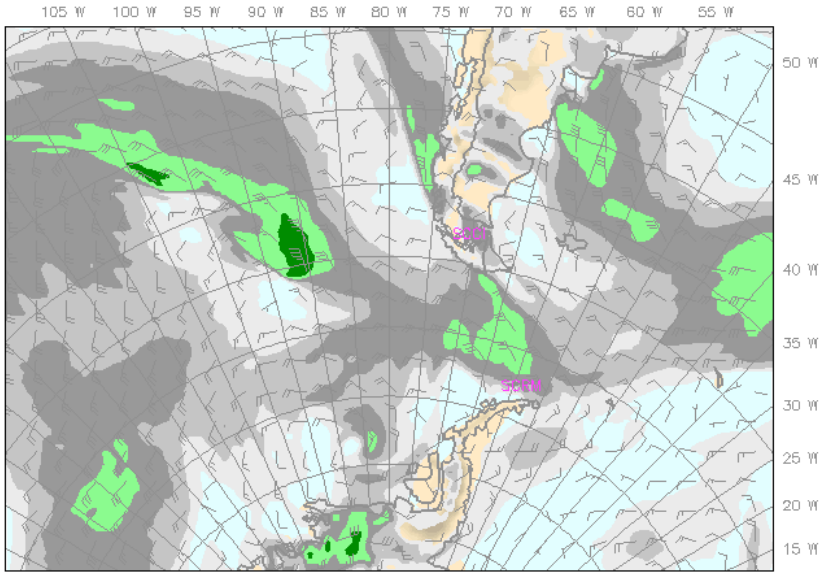


BARB VECTORS: FULL BARB = 10 kts

6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 m s^{-1}

OUTPUT FROM METGRID V3.7 x = 180, y = 128, 30 km, 27 levels

NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 12 h Valid: 18 UTC Thu 22 Jan 15 (15 LST Thu 22 Jan 15)
Horizontal wind speed at k-index = 26
Horizontal wind vectors at k-index = 26 sm= 1

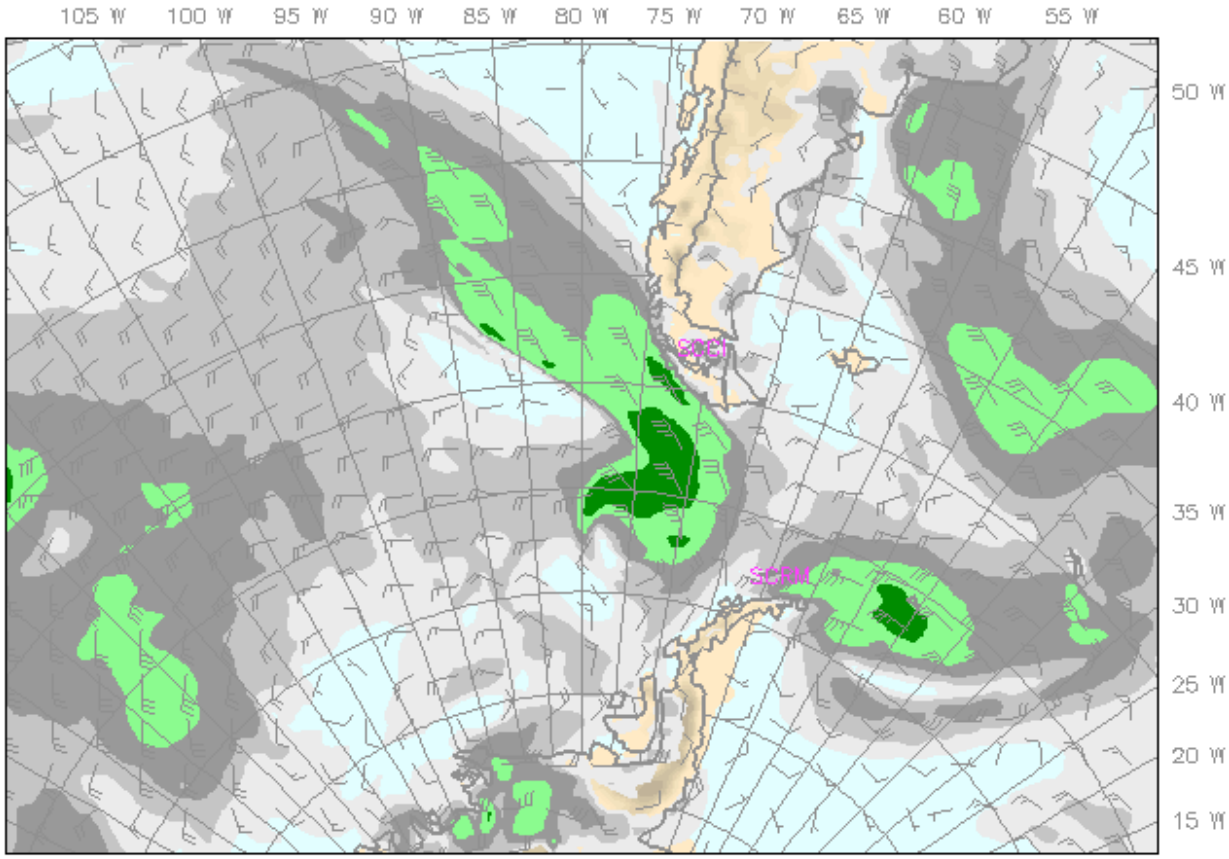


BARB VECTORS: FULL BARB = 10 kts

6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 m s^{-1}

OUTPUT FROM METGRID V3.7 x = 180, y = 128, 30 km, 27 levels

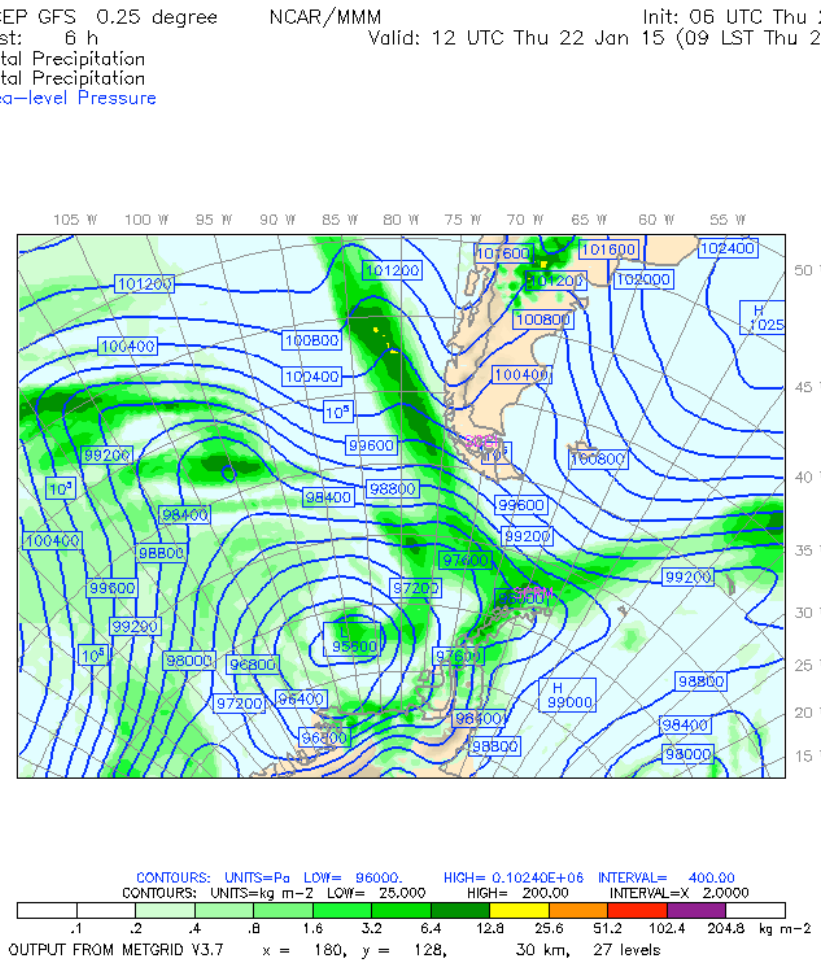
NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 30 h Valid: 12 UTC Fri 23 Jan 15 (09 LST Fri 23 Jan 15)
Horizontal wind speed at k-index = 26
Horizontal wind vectors at k-index = 26 sm= 1

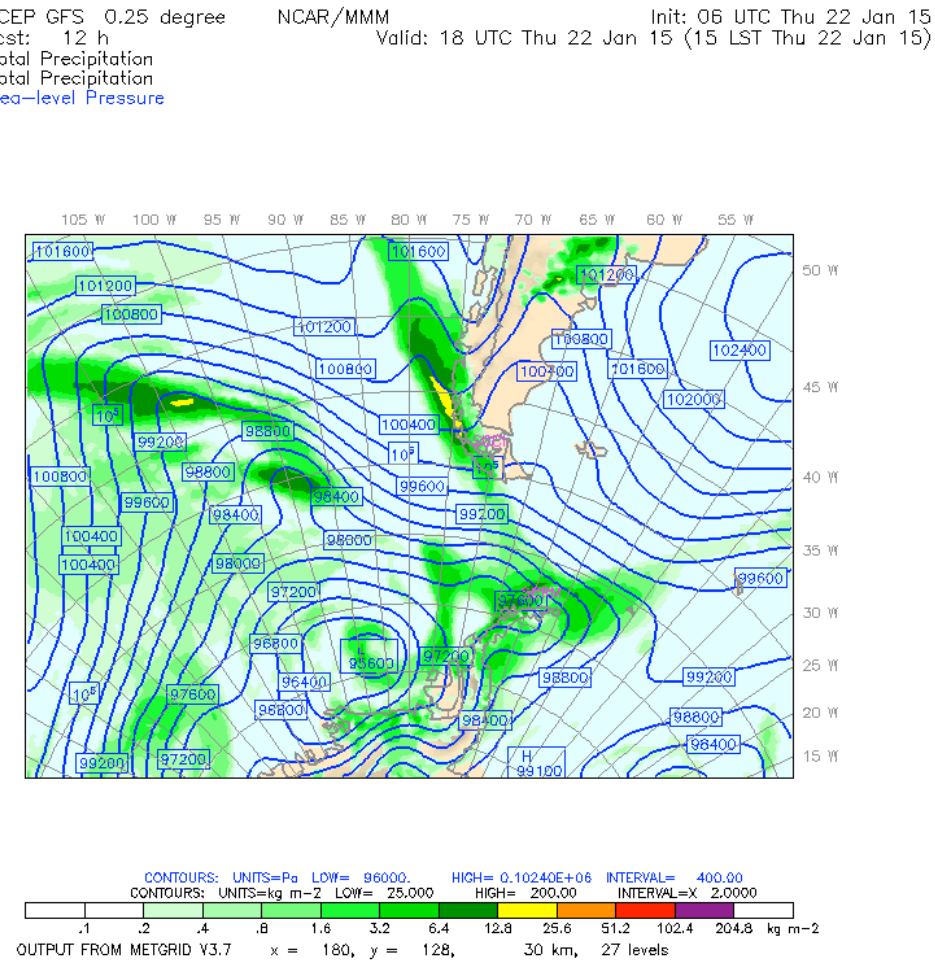


BARB VECTORS: FULL BARB = 10 kts

6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 m s^{-1}

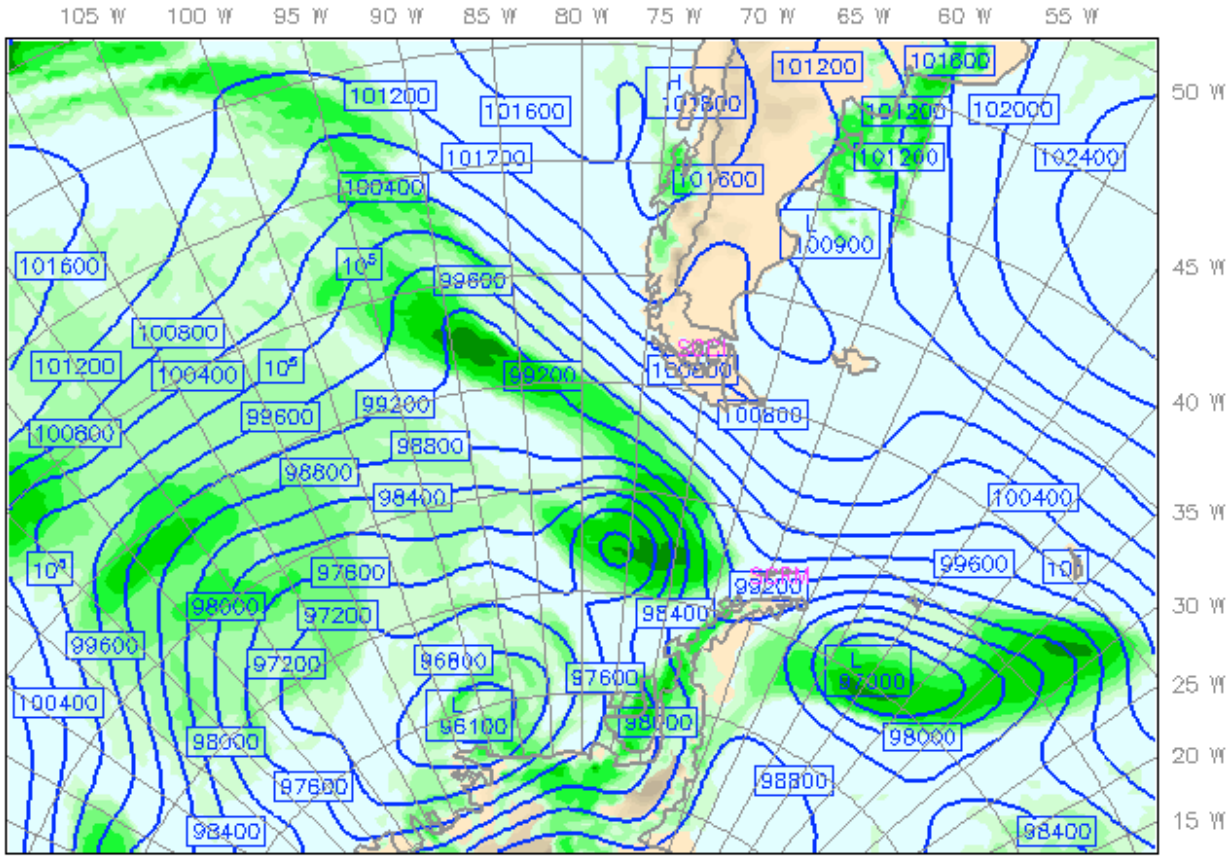
OUTPUT FROM METGRID V3.7 x = 180, y = 128, 30 km, 27 levels





Larger chance of precipitation at landing time according to this mornings run

NCEP GFS 0.25 degree NCAR/MMM Init: 06 UTC Thu 22 Jan 15
Fcst: 30 h Valid: 12 UTC Fri 23 Jan 15 (09 LST Fri 23 Jan 15)
Total Precipitation
Total Precipitation
Sea-level Pressure



CONTOURS: UNITS=Pa LOW= 96400. HIGH= 0.10240E+06 INTERVAL= 400.00
CONTOURS: UNITS=kg m-2 LOW= 12.500 HIGH= 200.00 INTERVAL=X 2.0000

.1 .2 .4 .8 1.6 3.2 6.4 12.8 25.6 51.2 102.4 204.8 kg m-2

OUTPUT FROM METGRID V3.7 x = 180, y = 128, 30 km, 27 levels