

Aurora Australis Data Quality Control Report

Cruises:
SR_03_/02
SR_03_/03
S__04_/04
SR_03_/05
SR_03_/04
PR_12_/01
PR_12_/02
PR_12_/03
PR_12_/04
PR_12_/05
I__08A/01

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was extremely high for all the cruises. This was signified by the numerous "G", data >4 s.d. from climatological mean, and "B", data out of bounds, flags for those variables. These extreme conditions are not unexpected, however, as most of the observations were taken between Tasmania and the Antarctic coastline. This region, often called the roaring forties, is well known for strong cyclones, high winds, and hazardous navigation.

For the entire data set, the lowest atmospheric pressure was 932.5 mb at 15:07 on 8/25/95 during cruise SR_03_/05. The highest wind speed was 31 m/s at 20:07 on 2/22/94 during cruise SR_03_/03. These, plus any other significantly low pressures or high wind speeds were flagged with an "I".

The only problem with the data set is that a significant portion of the data are missing. This is probably due to instrument failure after the system had been exposed to the extreme conditions detailed above for extended periods of time. Under the DAC QC system, missing data values are valid and are flagged with a "Z", good data. This may bias statistics for these files. Table 3 summarizes missing data information for each file.
