

Vidal Gormaz Data Quality Control Report

Cruises:

PR_14_/04

SR_01_/05

PR_14_/03

SR_01_/06

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Introduction

The data referenced in this report were collected from the research vessel Vidal Gormaz (call sign: CCVG) standard bridge logs from each of four separate cruises for WOCE. The original hard copy data were digitized and then converted to a standard format. The data were then pre-processed using an automated data checking program. A visual inspection was then completed by a data quality analyst who reviewed, modified, and added appropriate quality control (QC) flags to the data. Details of the WOCE QC can be found in Smith et al. (1996). This report summarizes the flags for the Vidal Gormaz data, including flags added by both the pre-processor and the analyst.

Statistical Information:

The data from the Vidal Gormaz were expected to include observations every 6 hours from 4 cruises. The start and end dates, the number of observations, and the number and percentage of non-Z flags for each cruise is given in table 1.

Table 1: List of dates and number of records and flags for each of the cruises						
CTC	Dates	Number of Records	Number of Values	Number of Flags	Percent Flagged	
PR_14_/04	10/07/93 - 10/17/93	43	516	22	4.26	
SR_01_/05	11/13/93 - 11/23/93	32	384	20	5.21	
PR_14_/03	10/06/94 - 10/25/94	60	720	54	7.50	
SR_01_/06	11/09/94 - 12/07/94	73	876	20	2.28	

Time (TIME), latitude (LAT), longitude (LON), platform heading (PL_HD), platform speed (PL_SPD), wind direction (WND), wind speed (SPD), atmospheric pressure (P), dry air temperature (T), sea temperature (TS), dew point temperature (TD), and wet-bulb temperature (TW) were quality controlled. A total of 2496 values were reviewed and checked and a total of 116 flags were added to the 4 cruises resulting in 4.65% of the data

SPD	0	2	0	2	0	0	0	4	1.92
P	0	0	2	2	0	0	0	4	1.92
T	3	9	5	0	0	0	0	17	7.21
TS	0	0	40	0	0	0	0	40	12.98
TD	17	1	0	0	0	1	0	19	8.65
TW	19	3	0	0	0	1	0	23	10.10
Totals:	39	18	47	4	4	3	1	116	4.65
Percentage of Flags Used	1.56	0.72	1.88	0.16	0.16	0.12	0.04	4.65	

D=Failed $T \geq T_w \geq T_d$ check

G=>4 S.D. from Climatological Mean

I=Interesting Data

J=Erroneous Data

K=Suspect/Caution

L=Land Error

S=Spike

Final Note:

As can be seen by the summary, these data are in good shape. The analyst foresees no problems and fully recommends using this data set.

References:

Smith, S.R., C. Harvey, and D.M. Legler, 1996: Handbook of Quality Control Procedures and Methods for Surface Meteorology Data. WOCE Report No. 141/96, Report WOCEMET 96-1, Center for Ocean Atmospheric Prediction Studies, Florida State University, Tallahassee, FL 32310.