

Tracking the SOOP Data

Francis Bringas

(UM / CIMAS)

Gary Soneira, Paul Chinn, Joaquin Trinanes

(NOAA / AOML)

Fifth Meeting of the JCOMM Ship Observations Team (SOT)

18 - 22 May 2009, Geneva





Objectives of the Data Tracking

- Check that the XBT and TSG data being generated in the ships are reaching its destination (typically in real-time).
- Ensure that the data approved in the QC process reach the GTS properly.
- Verify the format of the data submitted into the GTS.
- Detect problems in real-time data transmissions from the ships.
- Detect other operational problems.



Data Tracking Daily Activities

- Specified platform type not expected from a specific group of headers.
- Check for data received from ships with unknown Call Sign.
- Observations transmitted with wrong date/time/location.
- Data drops: the data is transmitted but it is not reaching its destination.
- General errors in data codification and format.
- Comparison between our operational data bases and GTS data flow.
- Submission of duplicated data.



Daily Report of the GTS Data Flow

Process started at: Fri Apr 17 07:01:01 EDT 2009

-
- [106] GB106.res: found 1 BAD JJVV records !!!
 - [106] No BAD KKYY records
 - [106] No BAD NNXX records
 - !!!!!!! WARNING !!!!!!! Last observation in GOOS106.DAT (20000415) is 3289 days old
-
- [106] No SOVX01KWBC records in Not Found file
 - There are 7 SOVX01KWBC duplicated records in GOOS106.DAT
-
- [106] G106_DT_rptd1.res (KARS): 7.59MB WARNING !!!!! : KARS and LFWV/LFPW may be in simultaneous backup !!!!!
 - [106] G106_DT_rptd2.res (LFWV): 2.76MB
-
- glst7dy_hdrs.html (SIV, SMV, SNV): No wrong platform found
-

files NOSnn.SRVR:

Date	time	file	size(kB)	JJVV	KKYY	KARS	LFWV	SOVX01	SOVX01KWBC	SOVX80KWUM
2009-04-14	12:00	NOS10.SRVR	1528	131	1409	71	200	24	24	0
2009-04-14	18:00	NOS11.SRVR	5647	124	1308	331	452	19	19	0
2009-04-15	0:00	NOS12.SRVR	2375	16	1402	300	219	16	16	0
2009-04-15	6:00	NOS01.SRVR	2123	23	1474	190	202	20	19	0
2009-04-15	12:00	NOS02.SRVR	2539	16	1493	361	195	21	21	0
2009-04-15	18:00	NOS03.SRVR	2579	20	1346	203	202	19	19	0
2009-04-16	0:00	NOS04.SRVR	2228	32	1096	261	206	24	24	2
2009-04-16	6:00	NOS05.SRVR	2117	21	1117	172	199	21	21	2
2009-04-16	12:00	NOS06.SRVR	2437	18	1339	274	198	23	23	2
2009-04-16	18:00	NOS07.SRVR	2222	18	1241	184	183	17	17	4
2009-04-17	0:00	NOS08.SRVR	2250	19	1319	261	202	19	19	5
2009-04-17	6:00	NOS09.SRVR	2092	20	1422	160	181	20	20	3



Daily Report of the GTS Data Flow

Latest AOML/TSG observations:

Call_Sign	Last_Obs._GTS	...days_ago	Ship	Last_Obs._AOML	...days_ago
● C6SE4	20071201	516	EXPLORER_OF_THE_SEAS	20071201	516
● C6TN4	20090408	22	MV_EXPLORER	20090408	22
● ELVZ5	20071117	530	ALBERT_RICKMERS	20071119	528
● PJJU	20090402	28	OLEANDER	20090402	28
● WTDK	20090323	38	DAVID_STARR_JORDAN	20090323	38
● WTDM	20081006	206	MILLER_FREEMAN	20081006	206
● WTDO	20090428	2	OREGON_II	20090429	1
● WTEB	19920101	6329	FAIRWEATHER	20081215	136
● WTEC	19920101	6329	RONALD_H_BROWN	20080517	348
● WTEE	20090403	27	OSCAR_ELTON_SETTE	20090403	27
● WTEF	19920101	6329	RAINIER	20081031	181
● WTEO	20090428	2	GORDON_GUNTER	20090429	1
● WTEP	20090428	2	OSCAR_DYSON	20090429	1
● WTER	20090428	2	NANCY_FOSTER	20090429	1
● WTEU	19920101	6329	KA'IMIMOANA	20090429	1
● WTEY	20090412	18	HI'IALAKAI	20090412	18

Thu Apr 30 07:01:01 EDT 2009



Daily Report of the GTS Data Flow

Status of ALL ships in the last 482 days

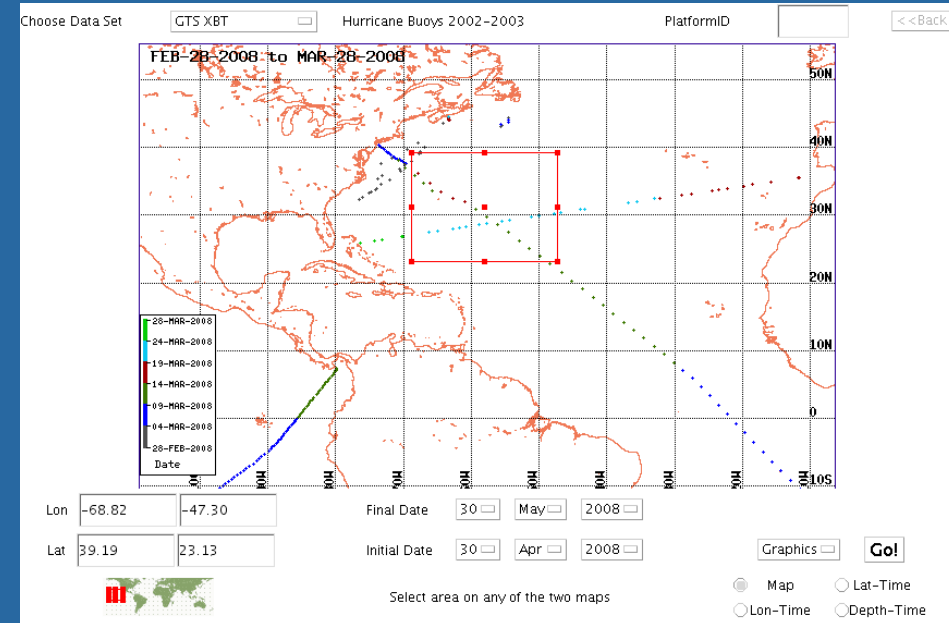
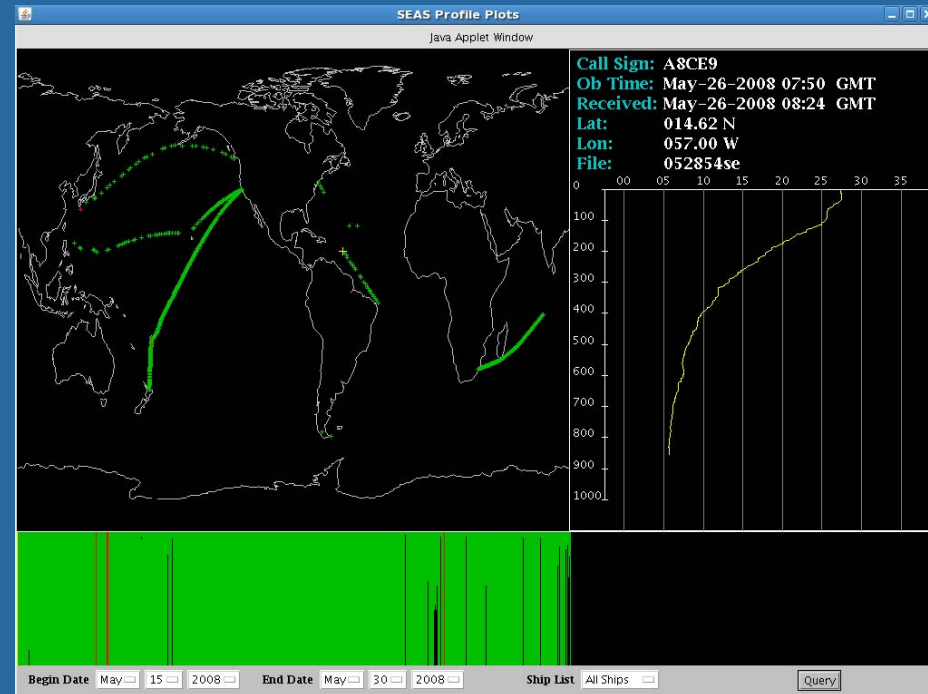
Call sign	Days	Records	Full Rec.	Good QCd Rec.	Last data received
C6TN4	222	285014	285009	214154	2009-04-08 18:20
PJJU	400	2338583	2337415	1116667	2009-04-02 14:26

Call sign	Rec.	Full Rec.	Date	Time	Lon.	Lat.	Temp.	Sal.
C6TN4	285014	285009	285014	285014	285012	285012	285014	285011
PJJU	2338583	2337415	2338583	2338583	2337415	2337415	2338583	2338583



Other Tools for Data Tracking

<http://goos142.amverseas.noaa.gov/db/xbtplotapp.html>



<http://www.aoml.noaa.gov/phod/trinanes/xbt.html>



Example of recent issues

1. Truncated bulletins:

```
SOVF01 EDZW 070858  
JJVV 01048 1812/ 15450/ 01027/ 88887 82099  
00054 02054 08049 13048  
99999  
10044=
```

2. Error in format

3. Error in date, location...

4. Transmission of duplicates:

```
J,WDD6033,4/09/2009,0319,SOVX01KWBC,4/9/2009,0403,34/34N,132/30W  
J,WDD6033,4/09/2009,0319,SOVX01KWBC,4/9/2009,0403,34/34N,132/30W
```