

From: Dan Fornari <dfornari@whoi.edu>
Subject: Fwd: SBE26 tidegauge sn 273 datafiles and comments
Date: Fri, 19 Jan 2007 15:50:02 -0500

attached is the msg from marshall swartz and the tidegauge data files for the period from april 2006 to a few days ago.

marshall did a quick look processing on it and found it to be reasonable data.

i also had rob sohn here at whoi look at it to reconfirm that, and he too believes the data to be very reasonable (he used this same tidegauge for his TAG experiment a few years ago).

more in depth processing is necessary, as marshall indicates w/respect to correction for barometric pressure, etc...

anyway, thought i would pass these data/images along so they could be posted on the DMO for all to use as needed.

best regards
dan

Begin forwarded message:

From: "Marshall Swartz" <marshall.swartz@gmail.com>
Date: January 17, 2007 9:51:01 AM EST
To: dfornari@whoi.edu, mswartz@whoi.edu
Subject: SBE26 tidegauge sn 273 datafiles and comments

Dan,

Great news on the SSSG SBE26 s/n273. I have attached the download file for you. We do not have the barometric pressure correction that should be used for the tidal processing. See the SBE26 manual, (not SBE26 plus!).

It ran flawlessly until I shut it down, capturing 32144 observations at 15 min intervals.

I checked the timebase and it had lagged only 06 min 35 sec since startup. I downloaded the files and ran the first pass test to examine the pressure record, which behaved beautifully- see the .jpg file.

Most surprisingly is that the battery voltage is still so high. I cannot understand how this used so little power. I had SBE Engineering confirm my calculations, as did Steve, and we expected that the internal battery and the external battery would be near exhaustion, but they are not.

Time performance:

SBE logged time at start: 02/16/2006 17:38:20Z, synchronized to < 1 second to GMT standard at WHOI by me.

SBE26 internal time of last logged record: 01/17/2007 13:38:11.

SBE26 displayed time when actual GMT is 01/17/2007 14:05:00Z:
01/17/2007 13:58:25.

Battery condition:

Battery voltage after recovery 01/17/2007 1410z:

External D-cell battery pack Vext= 13.44V.

Internal SBE26 batteries:

Vmain = 12.4

Vlith=5.8

Physical condition:

No obvious problems to SBE26, FSI battery pack nor to frame nor cables.

Conclusion:

Can be returned to service on this cruise with quick turnaround (ie, < 2 hours work).

We'll stand by for your direction on storing this or returning to service. We have no request through SSSG for it at this time.

Marshall????

Dr. Daniel Fornari
Woods Hole Oceanographic Institution
Geology & Geophysics Dept.
Woods Hole, MA 02543

Tel: 508-289-2857

Fax: 508-457-2023

email: <mailto:dfornari@whoi.edudfornari@whoi.edu