

Intergovernmental Oceanographic Commission

OTT HYDROSENSOR SITE UPDATE REPORT

SONARA (CAMEROON)

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By SIMON F. (Surveyor)

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1. MISSION OBJECTIVES

The tide gauge system was unable to transmit data for several weeks and the main objective of this mission was to solve the problem of transmission.

2. INTERVENTION REPORT

The origin of the lack of data transmission was due to a faulty GPS antenna. System was not able to receive any GPS data. The defective GPS antenna was replaced Monday morning just after my arrival to the station site. The defective item did not show external damage.

This intervention solved the problem, and the tide gauge started transmitted again.

Another problem occurred later due to the installed scaffolding around the radar sensor. See Appendix A.

The scaffolding has been removed. Radar sensor works correctly.

3. CHART DATUM INFORMATION – LOGOSENS PARAMATRES

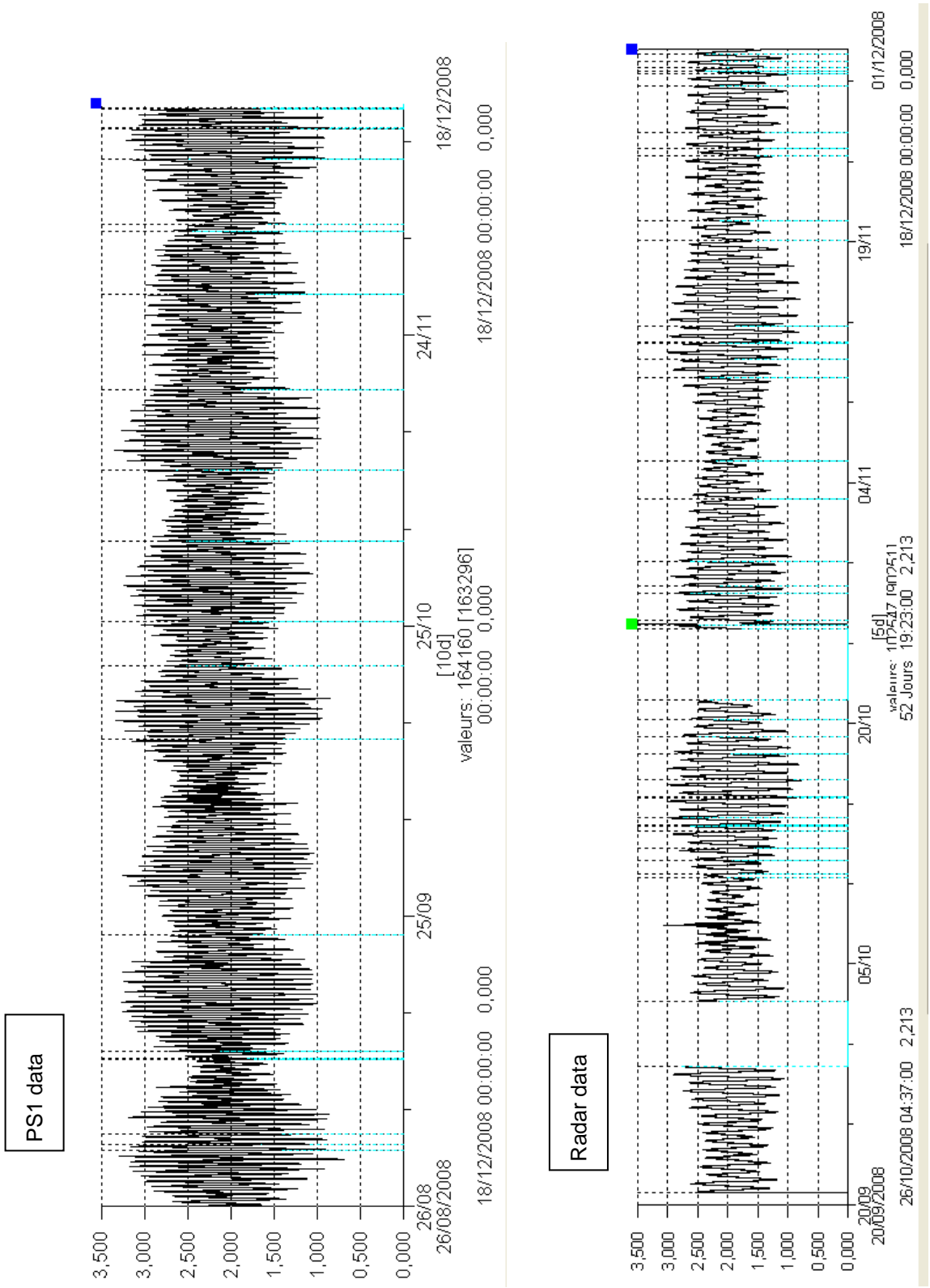
The original plans from the civil engineering from BOUYGUES company which constructed the SONARA jetty were examined. They date back to 1979-1980. These documents confirm that the top of the pile 21 is 4,2 m above the chart datum (CD). No more recent information regarding the CD could be found.

A mistake, an error of drawing, was integrated in the drawing given to me during my first visit. Because of that, the pressure sensors are 60 cm too low !

See Appendix B for more details.

SYSTEM OPERATING CONTROL – TRANSMITTED DATA - DOWNLOAD DATA

As requested, all data stored in the Logosens have been downloaded. Despite the lack of satellite transmission for almost 4 months the system recorded observations during a large part of that period.



4. CONCLUSION

The system works correctly again.

The following tasks remain to be done:

- The pressure sensors were installed with an approximate height above the chart datum (CD). It will be necessary to move up these sensors according to the true value of CD. The support of the pressure sensors are fastened only on its top part; a new intermediate binding must be added on the pile side when the pressure sensors will be at good position. Two days of work are necessary to complete the job,
- To put in place a system against floating scraps (below the radar sensor)

5. CONTACTS

Mr TCHONKO Romain

Email : tchonko_r@so-na-ra.com

Tel Mobile : (00 237) 99 83 79 94

APPENDICE A : ADDITIONAL PICTURES



APPENDICE B : VERTICAL DATUMS SCHEMA

Legend :

Known values : Original construction plans

Calculated by calibration

