

Inhambane Tide Gauge

Site of Gauge:

The tide gauge is located at the end of a long pier which serves small transport boats between Inhambane and Maxiqueque.

Summary:

| | |
|-------------------------------|---------------------------|
| Station Name: | Inhambane |
| Country: | Mozambique |
| Latitude of measuring point: | 23° 52.1' S |
| Longitude of measuring point: | 35° 22.6' E |
| Time Reference: | GMT (hours 00-23) |
| Contributor: | INAHINA |
| Observational period: | 7 May 2007 to 20 May 2010 |

Instrumentation:

| | |
|--------------------|----------------------------|
| Primary Channel: | OTT Kalesto Radar Sensor |
| Secondary Channel: | OTT ODS4-K Pressure Sensor |

Datum Information:

The tide gauge has not yet been levelled into the local benchmark network, so data are uncalibrated heights from the Kalesto sensor. Benchmark heights are given relative to local Chart Datum.

Benchmarks:

| Benchmark | Description |
|------------------|---|
| SH-MN1 (1980) | Brass plate fixed near the entrance of the Instituto Nacional da Marinha building (after the iron gate on the left hand side) |
| PN00 | At the left side of Serviços Provinciais de Geografia e Cadastro de Inhambane building entrance |
| PN04 | To the right of street sign block near the DNG building |
| PN05 | On the bottom floor right of main entrance of DNG building |
| LAR_IMARU | On the left side of the stairs of Lar Imacularda building |
| PN03 | On the left corner in front of the Red Cross building |
| FONTE | Near the fountain in the garden at the centre of the road, near the entrance of the harbour |
| PN04_Roof | At the edge of the roof of DNG building (left side) |
| PN01_Roof | At the edge of the roof of DNG building (right side) |

INHB

GNSS station, on roof of DNG office

Datum Relationships:

Chart Datum = 7.286m below SH-MN1

Chart Datum = 11.270m below PN00

Chart Datum = 8.473m below PN04

Chart Datum = 8.792m below PN05

Chart Datum = 10.694m below LAR_IMARU

Chart Datum = 12.057m below PN03

Chart Datum = 6.565m below FONTE

Chart Datum = 17.234m below PN04_Roof

Chart Datum = 17.231m below PN01_Roof

Chart Datum = 17.282m below INHB

Quality Assessment

The pier was rebuilt after September 2007, measurement datum probably changed upon reinstallation.

Gaps appear throughout the series. As a result, a proper tidal analysis has not been possible. Data has been visually inspected for datum shifts, and spikes have been removed.

In particular, large gaps appear in the data over the following intervals

| Missing data start (dd/mm/yyyy HH:MM) | Missing data end (dd/mm/yyyy HH:MM) |
|--|--|
| 07/06/2007 14:15 | 17/07/2007 08:12 |
| 11/09/2007 11:06 | 09/08/2009 17:59 |
| 28/11/2009 02:45 | 05/01/2010 10:44 |
| 05/01/2010 12:45 | 12/02/2010 04:44 |
| 15/02/2010 05:30 | 18/02/2010 13:59 |
| 24/02/2010 15:45 | 26/03/2010 12:59 |
| 20/05/2010 02:58 | End of series |