

GNSS Buoy Processing Report

MOON_Moon1480.26O_FIN.POS

Report: 2026-06-10 11:14

Regression R ² 0.00000	Regression Slope 0.0000
Geoid Separation (m) 0.000	Residual Std Dev (m) 0.000

1. Input Files

Source GNSS positioning file and reference tide-gauge file used as inputs for this processing run.

Parameter	Value
GNSS POS File	/opt/bitnami/ggtpu/media/import/MOON_Moon1480.26O_FIN.POS
Tide File	

2. Output Files

Files written to the export folder and bundled into the downloadable ZIP.

File	Path
Regression CSV	regressionexport.csv
CSV Tide File	GNSS_DerivedTides.csv.csv
CARIS Tide File	GNSS_DerivedTides.caris.tid
EIVA Tide File	GNSS_DerivedTides.eiva.tid
Export ZIP	/opt/bitnami/ggtpu/media/export/MOON_Moon1480.26O_FIN.zip
PDF Report	/opt/bitnami/ggtpu/media/export/MOON_Moon1480.26O_FIN.pdf

3. Processing Parameters

Savitzky-Golay filter settings, time-window clipping, and export resampling parameters.

Parameter	Value
Filter Length	61
Polynomial Order	3
Export Interval (min)	5

Start Clip (hrs)	0.0
End Clip (hrs)	0.0
Approved MSL above LAT	0.0
Processing Duration (s)	0.0

4. QC Metrics Summary

Regression and residual statistics for quality assessment. Slope checks the GNSS-vs-tide scale factor; residual statistics quantify the SavGol-filtered minus reference-tide difference.

Metric	Value	Threshold
Regression R ²	0.00000	≥ 0.99 (0.95 ok)
Regression Slope	0.0000	≈ 1.000 (±0.01)
Geoid Separation (m)	0.0000	— informational —
Residual Mean (m)	+0.0000	mean ≤ 0.05 m
Residual Std Dev (m)	0.0000	≤ 0.10 m (0.20 ok)

5. Configuration & Results

Full processing-engine state grouped by category. Long file paths wrap automatically inside cells.

GNSS Statistics

Parameter	Value
GNSS Start Date	1970-01-01 00:00:00
GNSS End Date	1970-01-01 00:00:00
GNSS Duration (Hrs)	0.0
GNSS Raw Observation Count	0
GNSS Start Clip (Hrs)	0.0
GNSS End Clip (Hrs)	0.0
GNSS Number Time-Clipped Observations	0
GNSS Recorded Record Interval (s)	0
GNSS Mean Latitude (Deg)	0
GNSS Mean Longitude (Deg)	0
GNSS Standard Deviation Heights (m)	0

Tide Statistics

Parameter	Value
TIDE Raw Observations	0

TIDE Start Date	0
TIDE End Date	0
TIDE Duration (Hrs)	0
TIDE Number Time-Clipped Tide Observations	0
TIDE Record Interval (s)	0
TIDE Mean Tide Height(m)	0
Supplied MSL Above LAT height(m). This can be entered by user in the configuration dialog or if present in the ascii tide files.	0.0
Regression: R ² Score (Coefficient of Determination). This metric measures the proportion of variance between the GNSS and Tide data. A value of 1.00 represents a perfect fit. A value of 0.95 or better is acceptable	0
Regression: Slope. This metric measures the scale factor computed between the GNSS and TG data. In a perfect world it should equal 1.00. A value other than 1 can imply the tide gauge is not performing correctly or the GNSS data has been over smoothed.	0
Regression: Intercept (m) (Mean Difference between Tide and GNSS Heights in metres as computed by regression	0
Geoid Separation(m), The intercept value from the regression analysis of GNSS and Tide Gauge data(m). The intercept is the preferred method of hydroid derivation.	0

Filtering

Parameter	Value
SavGol Filter Level	61
SavGol Polynimial Order	3
Regression: Iterations to find optimal Filter. If this reports zero a manual filter has been selected)	0

Results

Parameter	Value
Processing Date	2026-06-10 11:14:53.335919
SavGol-Tide Residual Mean (m) (a small number gives more confidence)	0
SavGol-Tide Residual Standard Deviation (m) (a small number gives more confidence)	0

Resample Interval (Minutes)	5
Export Filename	/opt/bitnami/ggtpu/media/export/MOON_Moon1480.26O_FIN.zip
Processing Duration(seconds)	0.0

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