



Training Course on the General Principles of Installation and Maintenance of Sea Level Stations and the Use of the Data

Bridgetown, Barbados, 17–21 November 2025

Provisional Agenda

Trainers: Angela Hibbert, Simon Williams, Geoff Hargreaves (NOC),
Sylvia Costa González (Instituto Hidrográfico de la Marina),
Peter Stone (unaffiliated, virtual), other virtual contributions from IOC

Day 1, Monday, 17/11/2025

		Primary & secondary trainer
08:30-09:00	Registration	
09:00-09:30	Welcome ceremony, opening remarks, group photo	
09:30-10:00	Trainer and delegate introductions	All
10:00-10:15	Knowledge test	
10:15-11:00	Network Reports (5 mins each)	All
11:00-11:15	Break	
11:15-12:30	Network reports (continued)	All
12:30-13:30	Lunch	
13:30-14:30	Tidal theory	Sylvia/Angela
14:30-15:00	Important Tidal cycles (pm)	Sylvia/Angela
15:00-15:15	Practical example – identifying tidal features of a sea level record	Sylvia/Angela
15:15-15:30	Break	
15:30-16:30	Sea level measurement technologies	Angela/Sylvia
16:30-17:00	NOC and IHM-maintained tide gauge networks	Geoff/Sylvia

Day 2, Tuesday, 18/11/2025

09:00-10:00	Anatomy, maintenance and installation of a tide gauge, plus Q&A	Geoff/Sylvia
10:00-10:30	Connecting sea level data to land, maintaining station datum	Simon/Geoff
10:30-11:15	Classroom theory on Geodetic Leveling (Optical method)	Geoff
11:15-11:30	Break	
11:30-12:30	Levelling practical exercise	Geoff/L&S
12:30-13:30	Lunch	
13:30-15:00	Levelling practical exercise	Geoff/L&S
15:00-15:15	Break	
15:15-16:00	Classroom theory on Geodetic Leveling (GNSS and GNSS-IR)	Simon
16:00-17:00	Vertical Land Motion and site stability	Simon

Day 3, Wednesday, 19/11/2025

09:00 Pick up from Courtyard Marriott, Christ Church
09:45-10:00 Speightstown Esplanade, St. Peter
10:10-11:10 Port St. Charles, St. Peter
11:30-12:15 **Lunch and Bathroom Break @ Barclays Park**
12:50-13:30 Consett Bay
13:30-13:50 **Bathroom Break and Coffee Break, Consett Bay, St. John**
14:50 Arrive at Courtyard by Marriott Hotel

Day 4, Thursday, 20/11/2025 (virtual presentations)

08:00-09:00	Components of sea level records	Angela/Sylvia
09:00-10:00	Use of water level data for marine navigation	Peter Stone
10:00-11:00	S-100 Product Specifications overview	Julia Powell/John Kluge
11:00-11:15	Break	
11:15-12:30	Sea level data quality control and processing	Angela/Sylvia/Peter
12:30-13:30	Lunch (Trainers to meet with Dr Brewster and Mr Best)	
13:30-14:00	Practical QC exercise	Angela /Sylvia
14:00-15:00	Overview of Caribe-EWS. Tsunami and storm surge. monitoring, detection, product dissemination	Elizabeth/Bernardo
15:00-15:15	Break	
15:15-16:00	Water Level datum definition and analysis	Sylvia
16:00-16:30	Practical Exercise	Sylvia
16:30-17:00	International data centers for sea level and VLM	Angela/Simon

Day 5, Friday, 21/11/2025 (half day)

09:00-11:00	Harmonic analysis and tidal prediction (theory, key constituents, tidal regimes, co- tide and co-range maps)	Sylvia/Angela/Simon
11:00-11:15	Break	
11:15-12:00	Tidal analysis and prediction software packages	Sylvia/Angela/Simon
12:00-12:30	Repeat knowledge test from Day 1	
12:30-13:30	Lunch	
13:30-14:00	Presentations and closing ceremony	