***Preliminary Agenda Workshop at SHOA September 27th – 30th 2022***

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| ***Day 1 Tuesday September 27th: Setting the scene*** | | | |
| **Start** | **End** | **Topic** | **Speaker - Comments** |
| 09:30 | 10:00 | **Attendants and Speakers Registration** | |
| 10:00 | 10:30 | **Welcome speeches by SHOA - VLIZ – PTWC** | |
| 10:30 | 10:45 | **Logistics information**  Transports – Lunch schedules – WiFi – COVID regulations – Earthquake/Tsunami general indications | |
| 10:45 | 11:15 | ***Presentations: who is who, aspirations.***  Attendants brief presentation  Workshop Staff Presentation and Expectations | |
| 11:15 | 11:30 | ***Coffee Break*** | |
| 11:30 | 12:00 | **What brings us together in this workshop** | **VLIZ-PTWC-SHOA**  Set our goals as Workshop Organizers. |
| 12:00 | 13:00 | **Overview of data systems and tools** | **VLIZ**: IOC sealevel monitoring facility (30 min)  **PTWC**: Introduction how Tide Tools works (Stuart 30 min) |
| 13:00 | 13:30 | **Tsunami Analysis Tools Tonga Event**: | **PTWC** can do a brief presentation of what tools were used for this event. Tsunami Height vs Tsunami Amplitudes |
| 13:30 | 14:30 | ***Lunch*** | |
| 14:30 | 15:15 | **Tsunami Analysis Tools: Chile’s Tonga Experience** | Importance of shared sea level data for real life emergencies. (Stuart you probably have a lot to add here about the relevance of getting more data available as PTWC). |
| 15:15 | 15:45 | **Getting data in the IOC sealevel facility** | **VLIZ**  (This part should be prepared with questionnaires) So far only Colombia and Ecuador have sent their formats and metadata. Peru has sent Tide Gauge location and Telemetry. Maintaining station metadata  Data transfer and formats: GTS, FTP, BGAN |
| 15:45 | 16:00 | ***Coffee Break*** | |
| 16:00 | 16:45 | **Using Data** | **VLIZ**  Webservices  New interfaces  Plans for the future : Geo-Inquire, Digital twin |
| 16:45 | 17:30 | **Data Sharing Strategies:** | **VLIZ**  Showing experiences with other developing countries. |

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| ***Day 2 Wednesday September 28th: Hands on Experience*** | | | |
| **Start** | **End** | **Topic** | **Comment** |
| 09:00 | 09:30 | **Tide Gauge Data Network Design** | **SHOA’s PARTNER SAVTEC**  Focus on sensor and telemetry redundancy as well as Data Transfer Network design (Backup Cloud Servers) |
| 09:30 | 10:15 | **Data transfer redundancy** | **SHOA - SAVTEC**  How same Telemetry can be shared to increase redundancy |
| 10:15 | 10:30 | **Coffee Break** | |
| 10:30 | 11:00 | **Data Sharing Formats and transmission Strategies** | **COLOMBIA**  Data management and sharing: Colombia’s Experience |
| 11:00 | 11:30 | **Data Sharing Formats and transmission Strategies** | **ECUADOR**  Data management and sharing: Colombia’s Experience |
| 11:30 | 11:45 | **Coffee Break** | |
| 11:45 | 12:15 | **Data Sharing Formats and transmission Strategies** | **PERU**  Data management and sharing: Colombia’s Experience |
| 12:15 | 13:30 | **Data Sharing Formats and transmission Strategies** | **VLIZ**  General Overview from previous presentations |
| 13:30 | 14:30 | **Lunch** | |
| 14:30 | 15:15 | **Sensor Integration and data format design** | **SHOA**  (Recommendations based on operational requirements for each station site) |
| 15:15 | 16:00 | **Data transfer practical work** | **VLIZ**  How choosing appropriate data format can facilitate sharing and data use by other parties |
| 16:00 | 16:15 | **Coffee Break** | |
| 16:15 | 17:30 | **Data transfer practical work: GTS Practical Test Part I** | **VLIZ-PTWC**  GTS. Bart and Tjess hopefully can perform test using GTS or other means.  Previous arrangements necessary? |

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| ***Day 3 Thursday September 29th: Hands on Experience*** | | | |
| **Start** | **End** | **Topic** | **Comment** |
| 09:00 | 09:30 | **Data transfer practical work:**  **GTS Practical Test Part II** | **VLIZ-PTWC**  Check with Letecia and Stuart if more GOES codes can be available for workshop or definitive allocations |
| 09:30 | 10:15 | **Data transfer practical work:**  **GTS Practical Test Part III** | **VLIZ** |
| 10:15 | 10:30 | **Coffee Break** | |
| 10:30 | 11:30 | **Telemetry options and data format constraints** | **SHOA – VLIZ**  Data format constraints due to transmission window or message size |
| 11:30 | 11:45 | **Coffee Break** | |
| 11:45 | 13:30 | **Achieving Data transfer redundancy** | **VLIZ – SHOA**  How the same data can or should be shared using different communications? Adapting strategies for High Earthquake and Tsunami risk areas |
| 13:30 | 14:30 | ***Lunch*** | |
| 14:30 | 16:00 | **Data transfer practical work:**  **Webservices Practical Test Part I** | **VLIZ – SHOA - PTWC**  Should we all work together at the same time with the participants, instead of working with each country sequentially |
| 16:00 | 16:15 | **Coffee Break** | |
| 16:15 | 17:00 | **Data transfer practical work:**  **Webservices Practical Test Part II** | **VLIZ – SHOA - PTWC**  Check with Colombia – Ecuador and Peru, availability to replace or add GOES Satellite radios for their stations. Is there any other arrangements required to assign new GOES Codes? |

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| ***Day 4 Friday September 30th: Hands on Experience*** | | | |
| **Start** | **End** | **Topic** | **Comment** |
| 09:00 | 09:30 | **Overview of Low Cost Tide Gauge Hardware** | **VLIZ contact**  Bart and Tjess could coordinate online presentation from external supplier. |
| 09:30 | 10:00 | **Overview of Low Cost Tide Gauge Hardware** | **SHOA - UNESCO**  **any other company or valuable experience to share about this?**  Ftp test available to get dummy data into our servers? Ask SHOA’s partner (SAVTEC) |
| 10:00 | 10:30 | **Overview of Tide Gauge Hardware: PTWC’s experience** | Recommendation on best path ahead to overcome current issues presented by each country.  Structure / Sensors  Telemetry options/Power options  Data Formats |
| 10:30 | 10:45 | **Coffee Break** | |
| 10:45 | 11:15 | **Overview of Tide Gauge Hardware: SHOA’s experience** | Structure / Sensors  Telemetry options/Power options  Data Formats |
| 11:15 | 11:30 | **Coffee Break** | |
| 11:30 | 12:30 | **Final Round Table** | Results achieved  Work to Do |
| 12:30 | 13:00 | **Closing Ceremony** | Diplomas for Attendants and Speaker |
| 13:00 |  | ***Lunch*** | |