ID: Type: **Oral**

telemetry services and products for ocean observation programs: potential use cases by CTBTO hydrophones networks?

The presentation will be an overview of the main satellite telemetry solutions dedicated to ocean data collection programs: Drifting Buoys Cooperation Panel (DBCP), Argo floats program, Ship of Opportunity (SOT), and other observation programs based on new autonomous vehicles: gliders, Remotely Operated Vehicle (ROV), Autonomous Underwater Vehicle (AUV), and Unmanned Surface Vehicle (USV).

CLS, as the historical and exclusive operator of the Argos system, on behalf of its governance agencies (French Space agency, National Oceanic and Atmospheric Administration (NOAA), and National Aeronautics and Space Administration (NASA), has been involved since 1978 in these programs and has been building strong links with the meteorological & oceanographic community. The Argos system data collection capabilities will be presented together with potential use cases for CTBTO oceanic networks (subsurface or surface moored buoy monitoring).

Then, CLS Iridium products & services will be presented as a more and more frequently used telemetry solution used by the oceanographic and meteorological community for transmitting high volumes of data, in real-time (minute). Iridium different telemetry solutions: Short Burst Data (SBD), Rudics, Circuit Switched Data (CSD), and Pilot will be presented together with Iridium data rates capacities and CLS added-value services such as real-time data and position decoding, archiving, automatic distribution via FTP or email, Web-mapping interface, CLS support & expertise, etc.

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Track Classification: Technology and engineering trends in Ocean Observatories, with emphasis on technologies and trends pertinent to the IMS hydroacoustic network