

STATEMENT OF PAKISTAN DELEGATION
59TH SESSION OF THE SCIENTIFIC & TECHNICAL SUBCOMMITTEE (STSC) OF
THE UNITED NATIONS COMMITTEE ON THE PEACEFUL USES OF OUTER SPACE
(UNCOPUOS); 7-18 FEB 2022 – VIENNA, AUSTRIA

Agenda Item No. 09: Space-system-based Disaster Management Support

Mr. Chairman

Space technology applications in disaster management is particularly helpful due to its all weather, all time repetitive and synoptic coverage of target areas. SUPARCO has developed much needed capacity in this important field, and is now actively contributing in term of data and expertise sharing at regional forums.

SUPARCO, provides space based information to National Disaster Management Authority (NDMA)/ Provincial Disaster Management Authority (PDMA) during all phases of disaster management namely preparedness, response, recovery and mitigation in the events of natural disasters. Technical assistance is also being provided to NDMA and PDMA for conducting Multi Hazard Vulnerability and Risk Analysis (MHVRA) studies in most vulnerable districts.

SUPARCO is currently undertaking Natural Catastrophe (NatCat) Project with aim to conduct floods, droughts, earthquakes and cyclones probabilistic hazard assessment, exposure and vulnerability assessment, financial risk assessment and development of spatial database and Web Portal. In addition, project will also assess impact of climate change on flood, drought and cyclone hazards frequency and magnitude.

SUPARCO is carrying out a project for Provincial Disaster Management Authority (PDMA), Sindh to conduct Multi Hazard Vulnerability Risk Assessment (MHVRA). The MHVRA study is conducted on natural hazards including cyclone & storm, drought, earthquake, flood, heat wave and tsunami up to Union Council level. The project would enable them to identify the hazard prone areas, possible risks and actions to be taken for disaster risk reduction.

Mr. Chairman

SUPARCO is participating in various programs organized by UN-SPIDER, International Charter for Space & Disaster Management, Sentinel Asia Framework, and United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP), Regional Space Applications Programme (RESAP) for sharing

data and expertise. SUPARCO also joined Global Partnership on Space Technology Applications for Disaster Risk Reduction (GP-STAR). In 2021, SUPARCO being Pak-RSO, participated in International Workshop “Space Technology Applications for Drought, Flood and Water Resource Management” and shared experience learned with regional countries.

SUPARCO is actively participating in International Humanitarian Satellite Aided Search and Rescue (COSPAS-SARSAT) Programme as a Ground Segment (GS) provider. Currently, SUPARCO is augmenting the existing facility with Medium-altitude Earth Orbit Search and Rescue System (MEOSAR) system, which will improve both the speed and location accuracy for detecting beacons.

Pakistan is also participating in Space Science study project titled “Integrating Satellite and Ground Observations for Earthquake Precursors and Signatures-Phase II” and “Disaster Management Framework Joint Research Projects Phase-II” under the framework of APSCO.

Thank You Mr. Chairman

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