

**Agenda Item No. 10: Space Weather**

**Mr. Chairman and distinguished delegates**

Space weather is going to have massive impact on all activities related to space. It has therefore been declared one of the seven thematic priorities of UNISPACE+50. Pakistan appreciates the UN program on space applications particularly Basic Space Science Initiative (BSI). We also support and encourage international as well as regional cooperation in space weather monitoring and related services.

**Mr. Chairman**

SUPARCO has been engaged in space weather monitoring for the last five decades using a number of country-wide ground-based sensors. The array of instruments installed countrywide helps to monitor space weather phenomenon in real time. The local ionospheric and geomagnetic data is used by national users and is being shared with APSCO and INTERMAGNET to undertake scientific studies and update space weather models at regional and global level.

**Mr. Chairman**

Along with space weather monitoring network, SUPARCO organized a 2-day distance learning course on Sun-Earth connection in Aug 2022. The course was attended by academia, young scientists and experts. Lectures were delivered by space weather experts from Nigeria, France and Pakistan. SUPARCO scientists also participated in the United Nations / Azerbaijan Workshop on the International Space Weather Initiative (ISWI) from 31 October to 4 November 2022 held at Baku in hybrid format

In order to address the global challenge of the space weather coordination, SUPARCO has joined "Expert Team of Space Weather" working under World Met Organization (WMO) Space Program. SUPARCO virtually participated in the 1st Meeting of the Expert Team on Space Weather held in Geneva from 19-21 October 2022. SUPARCO is also participating in following APSCO projects related to space weather:-

- a. Integrating Satellite and Ground Observations for Earthquake Precursors and Signatures - Phase II.
- b. Ionospheric modelling through study of radio wave propagation and solar activity –Phase II.

**Mr. Chairman**

Pakistan supports the six high level recommendations made in the report prepared by the "Expert Group on Space Weather: towards improved international coordination for space weather services".

**Mr. Chairman**

SUPARCO is enhancing awareness about space weather and its impact among various sectors including academia by means of organizing capacity building programs such as seminars, short courses, research projects and lectures.

**Thank you Mr. Chairman**