

**PROVISIONAL AGENDA (Revised)**

The meeting will start on Monday 25 November at 9:00 and is expected to close on Thursday 28 November at 16:00. It will be co-chaired by Dr Terrance Onsager and Dr Xiaoxin Zhang.

<i>DAY 1: Monday 25 November</i>
----------------------------------

- 1. OPENING OF THE MEETING (9:00-9:15)**
  - Welcome and introduction
  - Adoption of the agenda
- 2. UPDATE ON WMO (9:15-9:30)**
- 3. ICTSW CO-CHAIRS' REPORT (9:30-10:00)**
  - ICTSW on-going activities, achievements and issues in the international context
  - Mapping of activities to the Terms of Reference
- 4. STATEMENT OF GUIDANCE ON SPACE WEATHER OBSERVATIONS (10:00 -10:30)**

Break (10:30 – 11:00)
- 5. SPACE WEATHER SERVICES TO AVIATION (11:00-12:30)**
  - 5.1 Review process of ICAO documents by ICTSW**
    - Concept of Operations for Space Weather Information
    - Space Weather Impacts on International Air Navigation
  - 5.2 ICAO requirements for space weather information**
  - 5.3 Organization of space weather services to aviation**

Lunch Break (12:30-14:00)
- 6. SPACE WEATHER PRODUCT PORTAL (14:00-15:30)**
  - 6.1 New WMO portal, concept and procedures**
  - 6.2 New candidate products**
  - 6.3 Candidate training material**

Break (15:30-16:00)
- 7. WARNING FOR EXTREME SPACE WEATHER EVENTS (16:00-17:00)**
  - Outcome of ICTSW-ISES panel on extreme space weather events and way forward

DAY 2: Tuesday 26 November

**8. DATA AND PRODUCT EXCHANGE ISSUES (9:00-10:30)**

**8.1 Overview and critical issues**

- Critical data availability and timeliness

**8.2 Formats and standards**

- Update on GRIB/BUFR coding proposal
- GNSS TEC data formats (GTEX/RINEX/IONEX)
- GNSS Radio-Occultation data (IROWG action)
- Other codes and format issues (ISES codes)

**8.3 Update on the WMO Information System (WIS)**

**8.4 WIS demonstration actions**

- Status and evaluation
- Way forward regarding ICTSW and WIS

Break (10:30-11:00)

**9. SPACE WEATHER OBSERVATION CAPABILITIES (11:00-12:30)**

**9.1 Surface-based observations**

**9.2 Outcome of the IROWG workshop**

**9.3 Introduction to OSCAR/Space capabilities**

- Categorization principles in OSCAR
- Instrument typology
- Instrument performance and measurement relevance

Lunch break (12:30 -14:00)

**9.4 Instrument categorization/evaluation review (14:00-15:30)**  
(using OSCAR development version)

Break (15:30-16:00)

**9.5 Impact on the Statement of Guidance (16:00-17:00)**

*Day 3: Wednesday 27 November 2013*

## **10. STRATEGIC PLAN FOR SPACE WEATHER**

### **10.1 National/regional strategic plans for space weather (9:00-10:30)**

- US space weather enterprise
- China's national plan for space weather
- ESA SSA Space Weather Element
- Canadian approach to space weather services to the government emergency operations centre
- NICT space weather centre activities
- United Kingdom national plan for space weather
- Korea (Rep. of) national plan for space weather
- Russian Federation's national plan for space weather
- Pakistan's national plan for space weather

Break (10:30-11:00)

### **10.2 Global needs to be addressed in a strategic plan for space weather (11:00-12:30)**

- Improving observations and communications for space weather
- Developing products and services in space weather
- Training and education for space weather
- Space weather – meteorology/climate interaction and possible synergy

### **10.3 International initiatives and potential partnerships for space weather**

Lunch Break (12:30-14:00)

### **10.4 Proposed WMO Strategy for Space Weather (14:00-15:30)**

- WMO assets to meet current/future international needs and expectations
- Resource mobilization for WMO space weather activities
- Space Weather breakthroughs for 2020-2025

Break (15:30-16:00)

## **11. WMO-ISES MEMORANDUM OF UNDERSTANDING (16:00-16:30)**

- Revised draft WMO-ISES MoU

## **12. TRAINING AND OUTREACH MATTERS (16:30-17:00)**

- Training and outreach activities
- Review of draft CIMO Guide

*Day 4: Thursday 28 November 2013*

**13. ICTSW WORK PLAN FOR 2014-2015 (9:00-10:30)**

- Tasks, targets and milestones
- Organization
- Resources

Break (10:30-11:00)

**14. REVIEW OUTCOME OF DISCUSSIONS ON PREVIOUS ITEMS (11:00-12:30)**

Lunch Break (12:30-14:00)

**15. ANY OTHER BUSINESS (14:00-14:30)**

**16. CONCLUSIONS (14.30-16:00)**

- Draft statement for the WMO Executive Council
- Draft statement for CGMS
- Draft statement to COPUOS
- Review of actions
- Date and place of next meetings

*CLOSURE OF THE MEETING (16:00)*

**ICTSW-4 at a glance**

Monday 25 November	Tuesday 26 November	Wednesday 27 November	Thursday 28 November
Opening Update on WMO ICTSW Co-Chairs' report Statement of guidance update	Data and product exchange issues - Overview, critical issues - Formats and codes - Update on WIS - WIS demonstration actions	Strategic Plan for Space Weather - National/regional strategic plans	ICTSW work plan for 2014-2015
<i>Break</i>	<i>Break</i>	<i>Break</i>	<i>Break</i>
Space weather services to aviation	Space weather observation capabilities - Surface-based - Radio-occultation - OSCAR/Space capabilities	Strategic Plan for Space Weather - Global needs to be addressed in a global strategic plan - International initiatives and potential partnerships	Review outcome of discussions on all previous items
Lunch break	Lunch break	Lunch break	Lunch break
New Space Weather Product Portal	Space-based instrument categorization and evaluation review	Strategic Plan for Space Weather - Proposed WMO plan for space weather	Review of actions Any other Business Conclusions
<i>Break</i>	<i>Break</i>	<i>Break</i>	
Warning for extreme space weather events	Space-based instrument categorization and evaluation review (continued) Impact on the Statement of Guidance	WMO-ISES MoU  Training and outreach issues	<i>Closure of the meeting</i>