



## **Challenges in extending meteorological operations to space weather**

Jérôme Lafeuille (1) and Terry Onsager (2)

(1) World Meteorological Organization (WMO-OMM) Chief, Space-based Observing System Division (jlafeuille@wmo.int),

(2) NOAA (terry.onsager@noaa.gov)

Operational numerical weather prediction (NWP) systems have a long heritage, and the process of applying research in observations, modelling, data assimilation and verification to continually improve these operational systems is well understood. By contrast, although there is also a long heritage of space weather research, operational space weather prediction is less mature. There is considerable scope to identify and integrate best practices from operational NWP systems into operational space weather systems. In this presentation, the challenges in extending meteorological operations will be discussed (for example - what are the observational needs for operational space weather services?). The coordination of space weather services together with weather infrastructures shall also be discussed, including the role of the WMO and other meteorological bodies in this process.