The International Space Weather Initiative (ISWI)

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Nat Gopalswamy

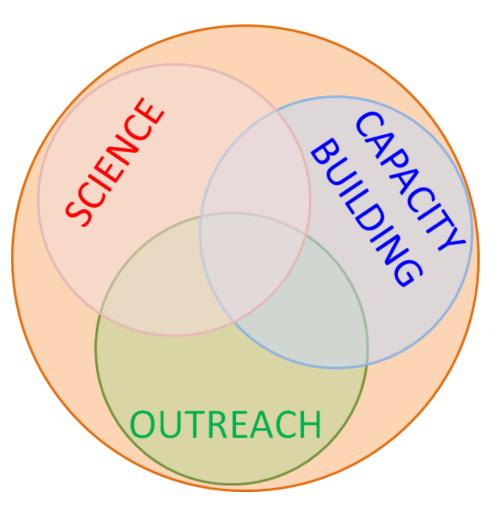
NASA GSFC, USA, ISWI Executive Director



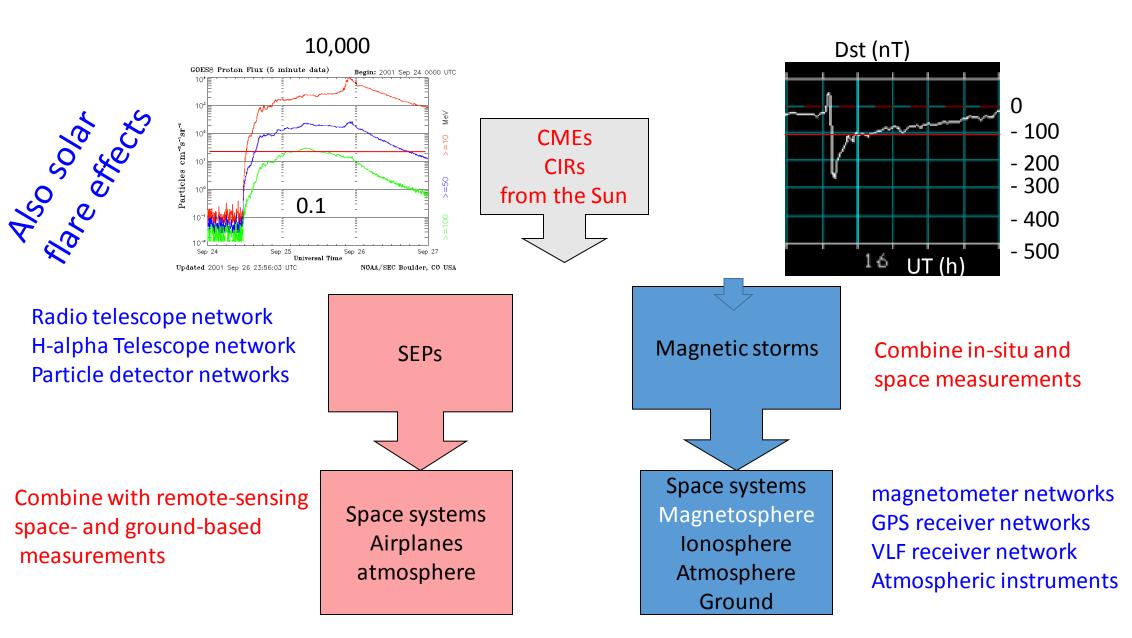


Science, Capacity Building & Outreach

- ISWI is a program of international cooperation to advance the space weather science by a combination of instrument deployment, analysis and interpretation of space weather data
- Grass-roots organization bottoms-up approach to produce space-weather-literate communities especially in developing countries
- Accomplished via workshops, schools, and public events
- Collaboration with SCOSTEP, ILWS, & COSPAR

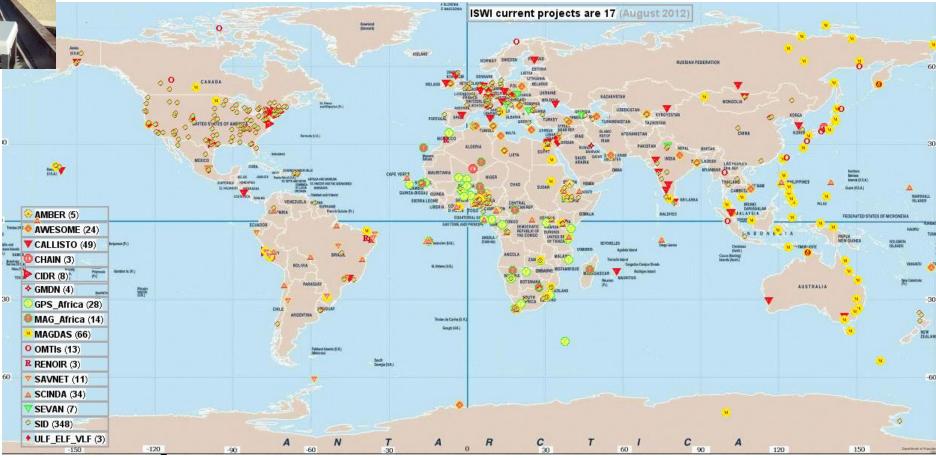


ISWI Instruments Measure Source & Impact of Space Weather









- Scientists from developing and developed nations work together in deploying and operating space weather instruments (currently there are more than 1000 deployments in more than 100 countries)
- Students and faculty participate at all levels of the instrument project and science
- 17 instrument networks from 8 countries (USA, Germany, Japan, Brazil, France, Israel, Armenia, Switzerland)

Data Utilization and Operational Use



- ISWI data are currently used for Space Weather science
- The ISWI SC has recently adopted an open data policy and Rules of the Road for data use (Steering Committee in UN on Feb 19, 2016)
- All ISWI data will be made accessible, available and independently usable
- This means data can be used by any space weather service that needs data on any aspect of the Sun-Earth space
- Some of the applications were identified during the COSPAR-ILWS workshop held in the fringes of UNCOPUOS/STSC meeting during Feb 15-17, 2016

Capacity Building: Space Science Schools

Science and Outreach: Workshops



Indonesia (2012); Kenya (2013), Peru (2014), India (2016) Egypt (2010), Nigeria (2011), Ecuador (2012), Japan (2015) Next one in USA (2017)



UN/US International Space Weather Initiative Workshop: Boston College, Chestnut Hill, MA, USA July 31 – August 4, 2017 http://iswi2017.bc.edu

- An international forum on the economic and societal effects of extreme space weather
- Preparation for UNISPACE+50
- Global forum for space weather experts from developed and developing countries to focus on recent advances in space weather phenomena by utilizing ISWI instruments and data.

The 3 components of the workshop may help develop a coherent international policy towards an appropriate response to space weather.

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