

# NOAA Space Environment Center

(the other SEC)

## Possible Roles in ILWS

Rodney Viereck  
(for Ernie Hildner)

- What is the NOAA Space Environment Center?
- SEC Contributions to ILWS
- ILWS Contributions to SEC

# NOAA SEC:

## Who are we?

- About 70 People
  - ½ Space Weather Forecasting
  - ½ Solar, Magnetospheric, and Ionospheric Science
- Forecasters:
  - Provide specification and forecasts of space weather
  - Send official Alerts and Warnings to customers
- Scientists:
  - Search for new science, data, missions, and models that can support the Forecasters
  - Validate and test new and existing space weather data and models

# NOAA SEC Support to ILWS

- Provide connection to societal needs and requirements
  - Guide research into areas most critical to space weather specification and forecasting
  - Provide a forum for scientists and customers to interact
    - Space Weather Week: An annual meeting to bring customer requirements to researchers and applied research to customers (Next meeting in May 2003)
- Provide Supporting Data
  - GOES
    - Solar x-ray and EUV irradiance, Magnetospheric fields and particles, Solar X-Ray Imaging
  - POES
    - Magnetospheric and Ionospheric particles, Solar UV irradiance
  - Ground-Based Observations
    - CORES, Ground based GPS receivers for TEC

# ILWS Support to NOAA SEC

- Provide advocacy for “Monitoring” the Space Environment: Moving from Research to Operations
  - Yohko to SXI (2003)
  - SOHO SEM, LASCO, and EIT to GOES R (2012)
  - SORCE Total and Spectral Solar Irradiance to NPOESS (2010)
  - ACE to GEOSTORMS????
  - Instruments of Opportunity on Operational Spacecraft