

S42-13

Creating new ways to view LEO Satellite observations of winds and waves

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There are several online websites that allow a person to click and view scatterometry data of winds, or altimetry data for waves (For example, https://scatterometer.knmi.nl/tile_prod/ and <https://manati.star.nesdis.noaa.gov/>). However, these websites show only small sectors, and usually one time. For long-term monitoring of weather, this can be a challenge. Accordingly, the authors have created websites that scrape online data sources for imagery, and use that imagery daily to create week-long animations of scatterometry winds, altimetric waves, and AMSR-2 windspeeds from GCOM. This talk will discuss how this was done, and what the results look like (<https://www.ssec.wisc.edu/~scottl/Waveheight/PacificRegionWaves.html>, <https://www.ssec.wisc.edu/~scottl/Windspeed/PacificRegionWinds.html>, and <https://www.ssec.wisc.edu/~aross/Windspeed/PacificRegionWinds.html>).

These websites were created with forecasters in mind to aid in situational awareness.