



STAR JPSS 2015 Annual Science Team Meeting

OMPS Product Demonstration Site

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OMPS Product Demo Site URL:

<http://www.star.nesdis.noaa.gov/icvs/prodDemos/index.php>

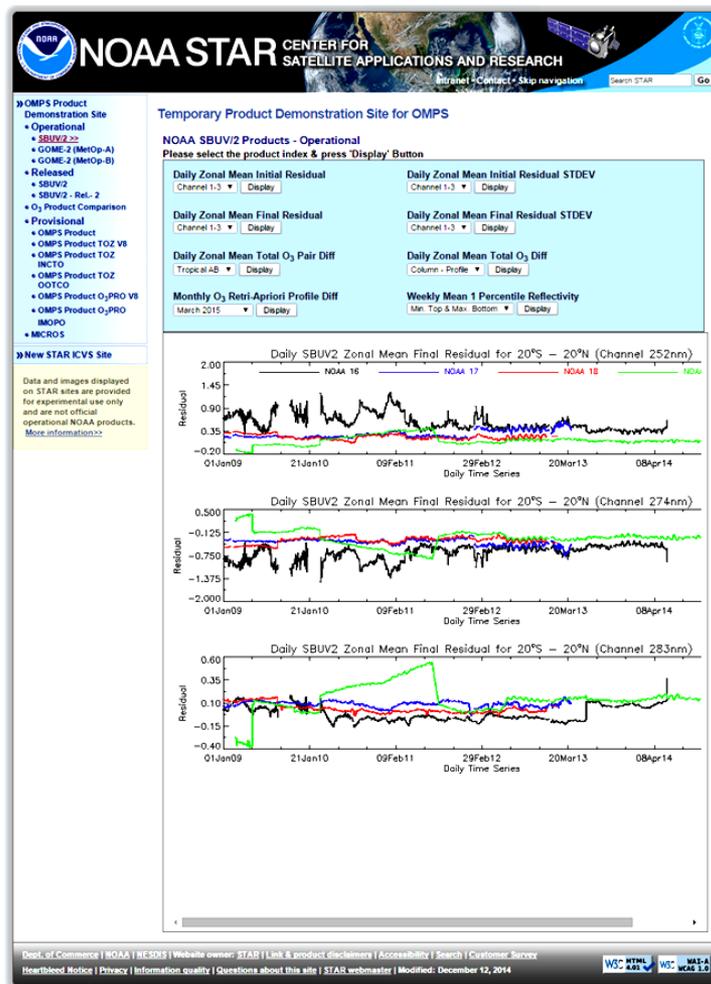
General Characteristics of site:

- Depicts performance of OMPS, GOME-2 and SBUV/2 instruments
- Updated daily, weekly, or monthly depending upon the type of plot
- Navigable via menu on left side of page. Pull down menus are available for most plot types to select previous time periods.
- Site is currently being redesigned.

A screenshot of the NOAA STAR website. The header features the NOAA logo and the text "NOAA STAR CENTER FOR SATELLITE APPLICATIONS AND RESEARCH". Below the header is a navigation bar with links for "Intranet", "Contact", and "Skip navigation", along with a search bar. The main content area is titled "Temporary Product Demonstration Site for OMPS" and contains a message explaining that this is a temporary site for Suomi-NPP OMPS EDR Data Products. A left-hand menu lists various product categories such as "Operational", "Released", "Provisional", and "New STAR ICVS Site". The footer contains links for "Dept. of Commerce", "NOAA", "NEOSIS", "Website owner: STAR", "Link & product disclaimers", "Accessibility", "Search", "Customer Survey", "Heartbleed Notice", "Privacy", "Information quality", "Questions about this site", "STAR webmaster", and "Modified: September 24, 2013".

SBUV/2 Operational Performance

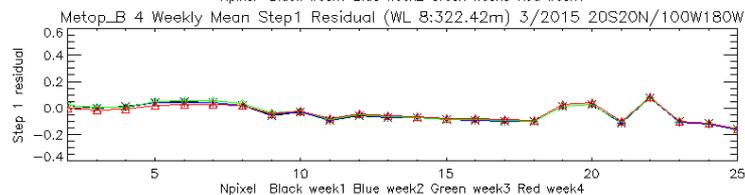
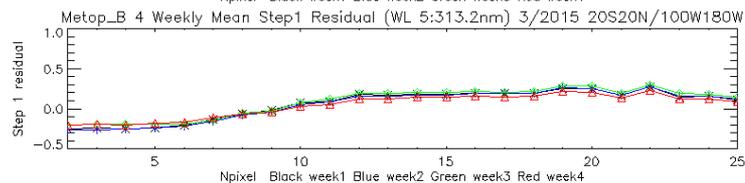
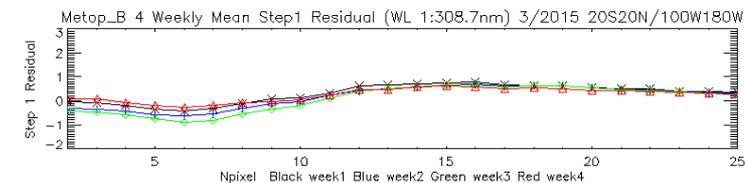
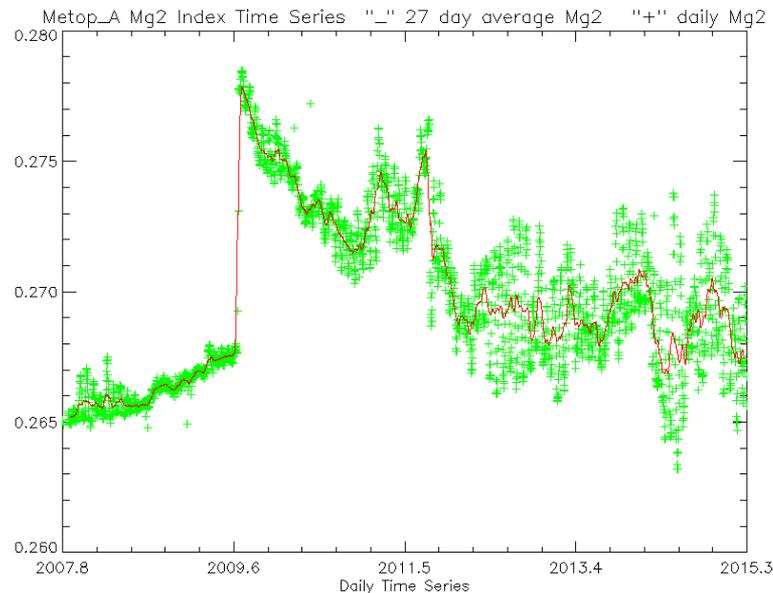
- SBUV/2 data products are monitored long term
- Parameters plotted include:
 - Daily zonal mean initial/final residual
 - Daily zonal mean initial/final residual standard deviation
 - Daily zonal mean total ozone pair difference
 - Monthly ozone retrieved a priori profile difference
 - Weekly mean 1 percentile reflectivity



GOME-2 (Metop A/B)

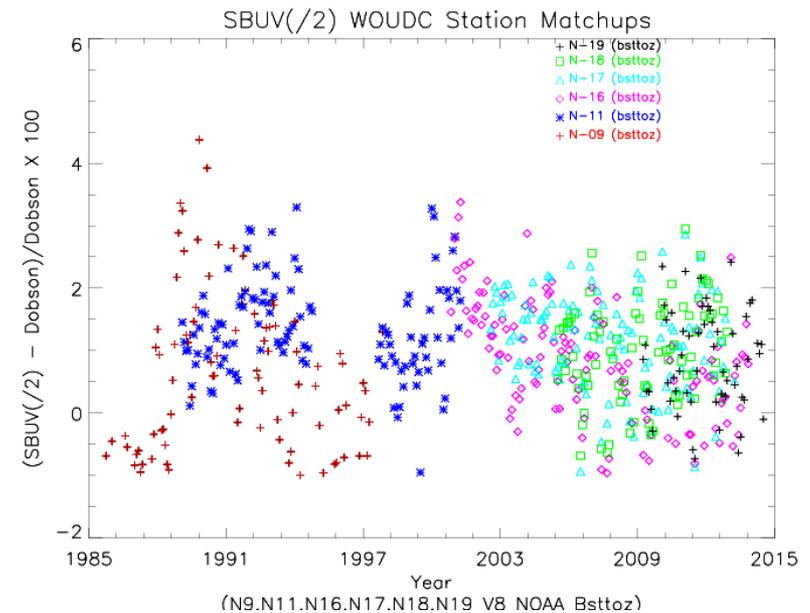
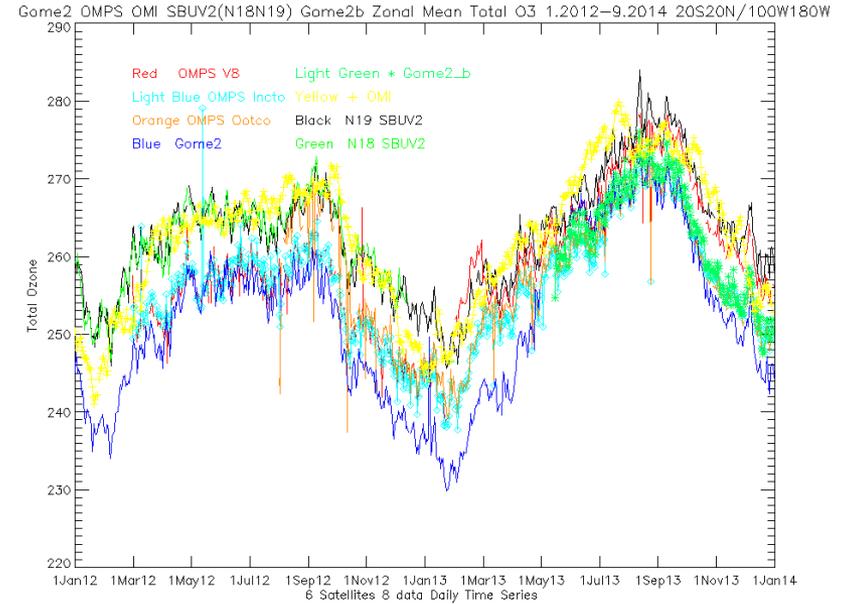
Parameters plotted include:

- Mg-II index
- Daily zonal mean total ozone, aerosol index, reflectivity, step 1 residual
- 4-Weekly mean total ozone, reflectivity, aerosol index, step 1 residual



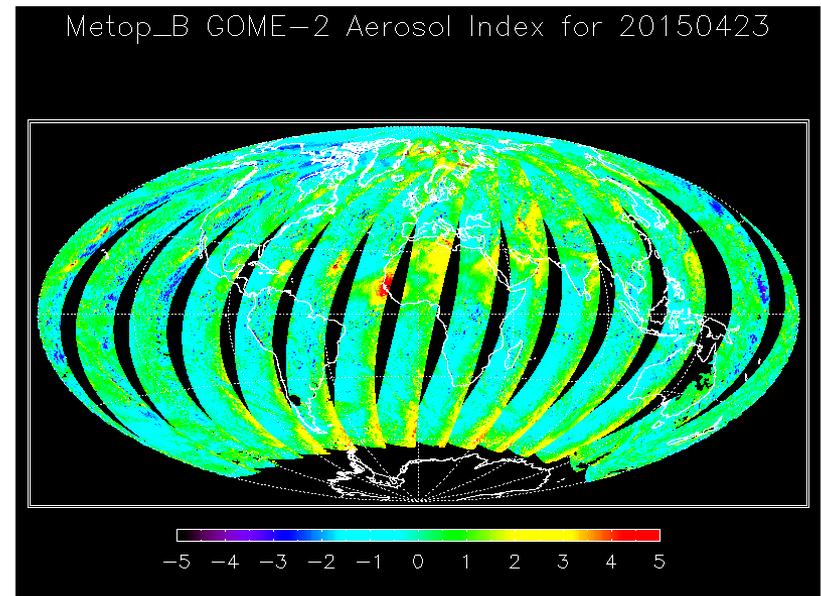
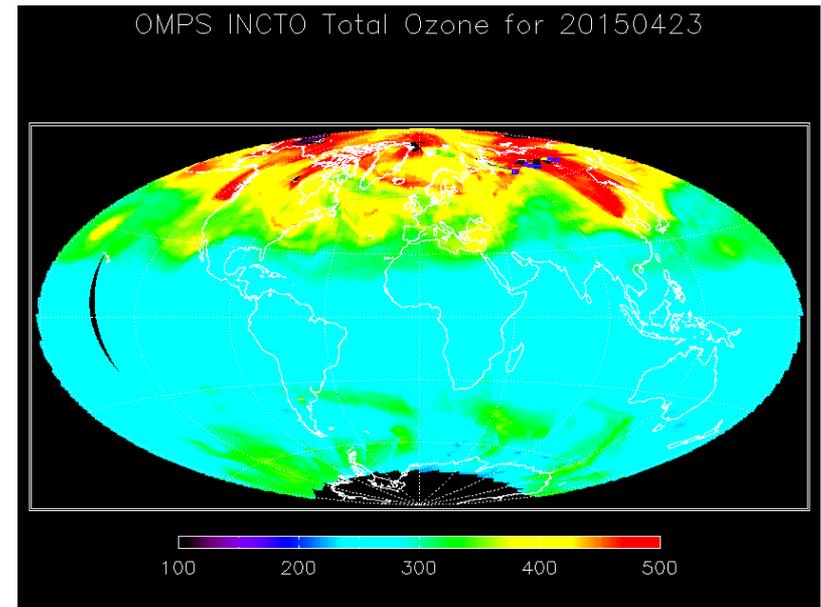
Ozone Product Comparisons

- Plots compare multiple ozone instruments
- Daily zonal mean comparisons
 - Chasing orbit comparisons
 - Comparisons with Dobson ground stations



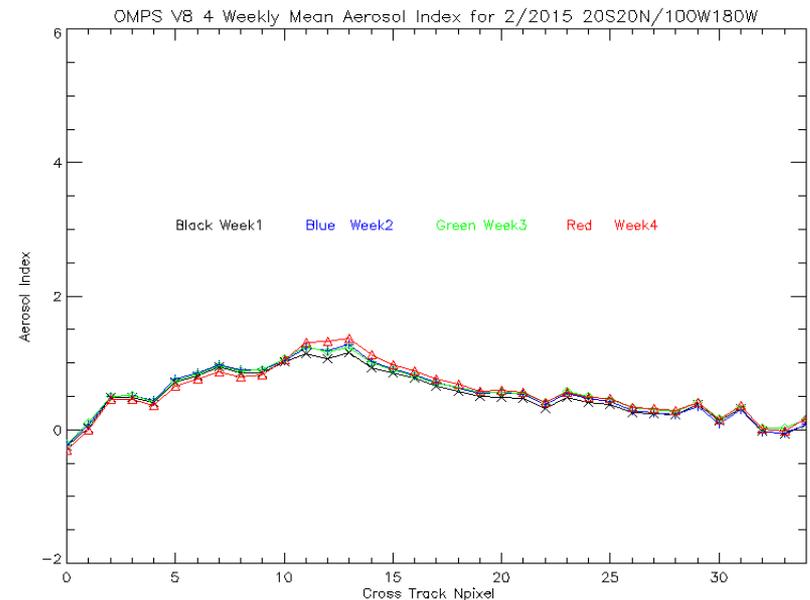
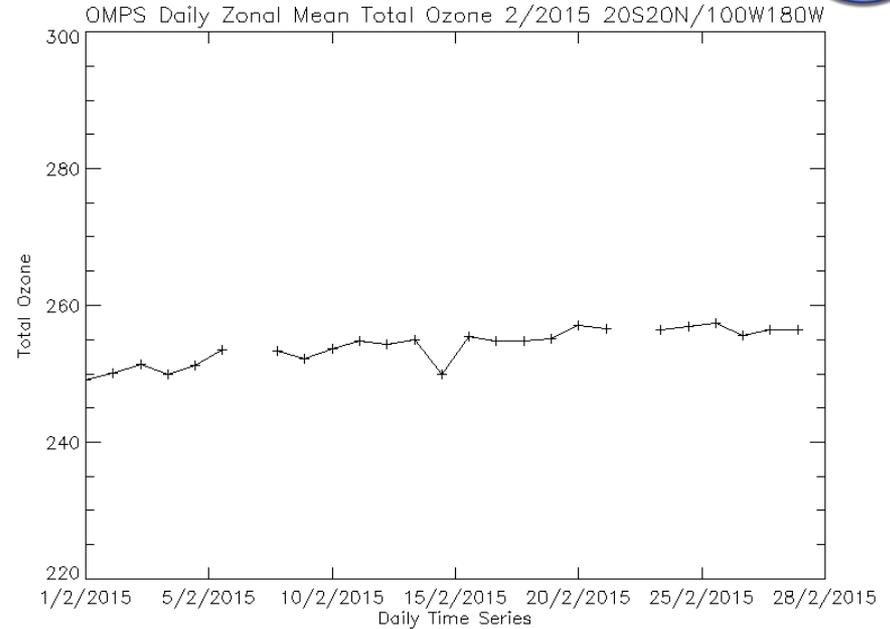
OMPS, GOME-2, and OMI Maps

- Daily “postage stamp” images depicting total ozone, reflectivity, and aerosol index
- OMPS V8, INCTO, OOTCO, and OMI products are available



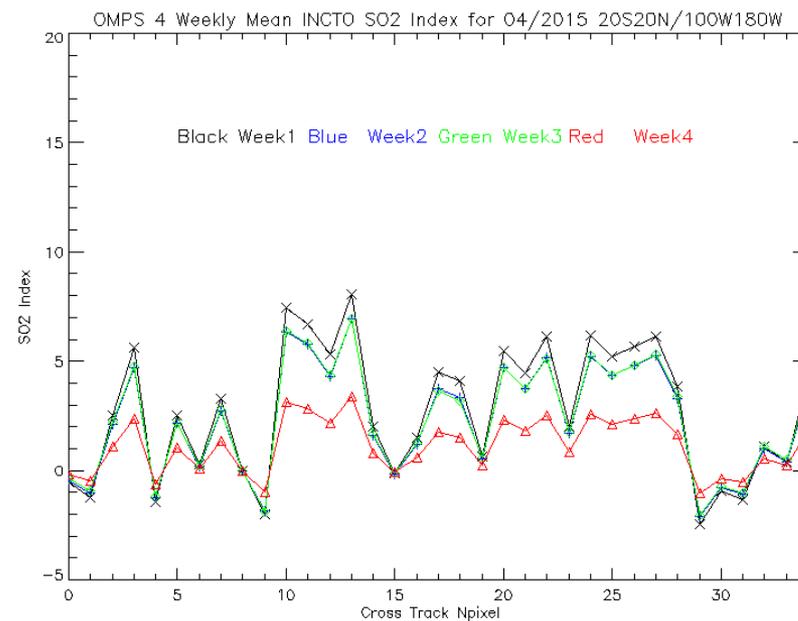
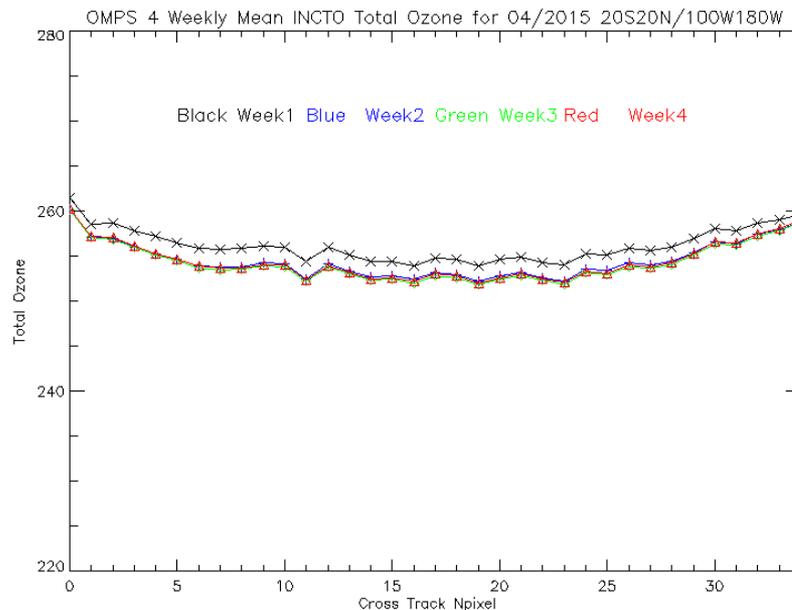
OMPS V8 Total Ozone

- Monitor the performance of the V8 ozone, reflectivity, and aerosol products
- Daily zonal mean and 4 weekly mean plots are available for each product



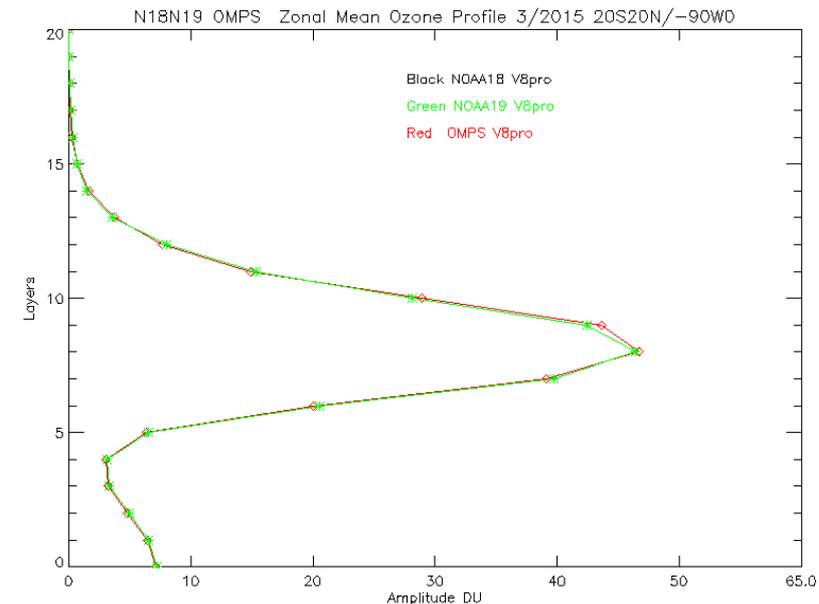
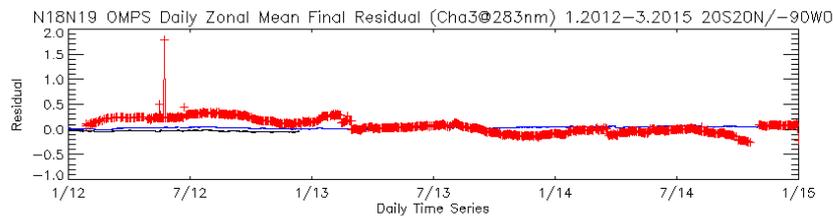
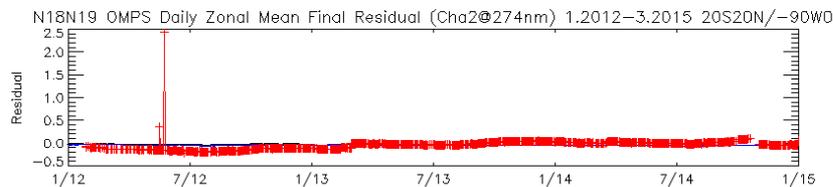
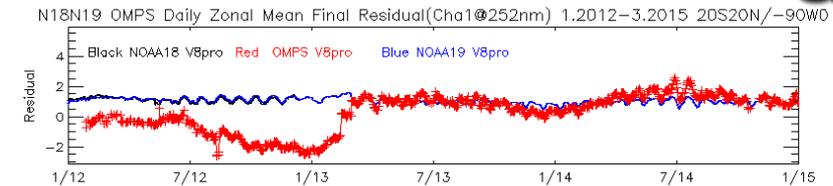
OMPS INCTO Product

- Monitor the performance of the operational INCTO product
- Graphs produced:
 - Daily zonal mean (Ozone, Aerosol, and SO₂ index)
 - 4-weekly mean and daily zonal 1 percentile plots are available for each product
 - Percent good rate
- Similar plots are made for the OOTCO product



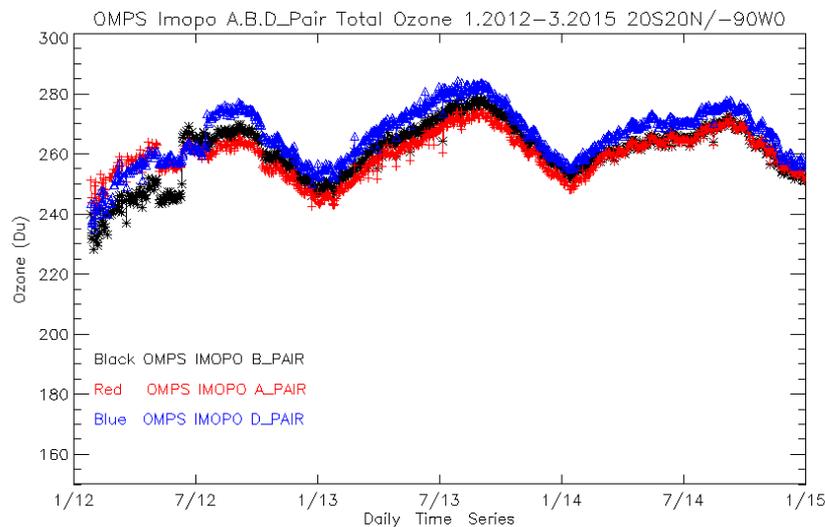
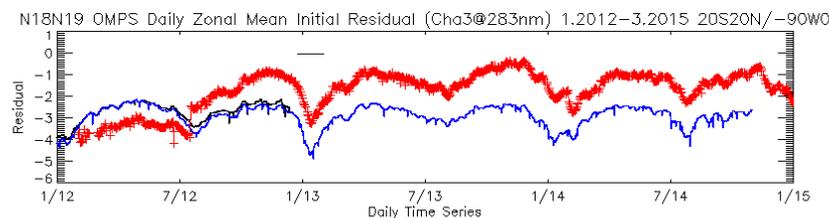
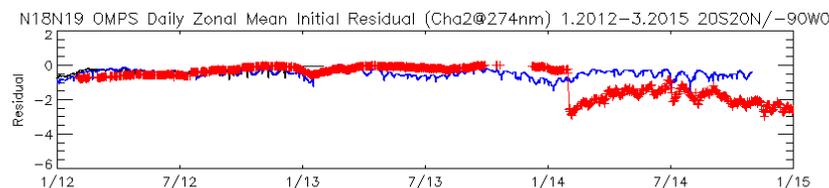
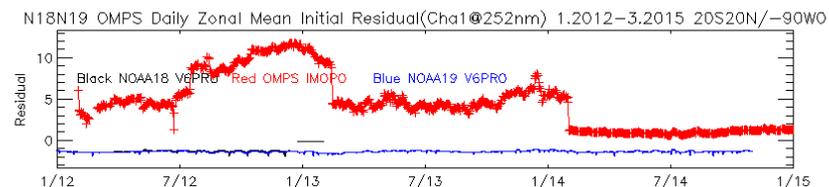
OMPS V8 Profile Product

- Monitor the performance of the V8 profile product
- Plots produced:
 - Daily zonal mean initial/final residual
 - Zonal mean total column O3 – profile O3
 - Retrieved – A priori plots



OMPS IMOPO Profile Product

- Monitor the performance of the operational IMOPO profile product
- Plots produced include:
 - Daily zonal mean initial/final residual, pair difference, and A,B,D pair total ozone
 - Column – profile
 - Retrieved – A priori
 - Percent good rate





New OMPS EDR Site Features

- Plots and images will have consistent projections, labels, fonts, and sizes
- Navigation improvements will include:
 - Parameters selected via pull down menu
 - Selectable dates or products via forward or reverse buttons. Also enable date selection via a calendar interface
 - For daily image products, animations can be produced



Conclusion

- Quick demo of web site
- Current EDR ICVS URL:
<http://www.star.nesdis.noaa.gov/icvs/prodDemos/index.php>
- New EDR ICVS site URL:
http://www.star.nesdis.noaa.gov/jpss/EDRs/products_ozone.php