



# STAR JPSS 2017 Annual Science Team Meeting

**OMPS Product Demonstration Site**  
**(OMPS Product Monitoring at the ICVS)**

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# OMPS Product Demo Site URL:

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

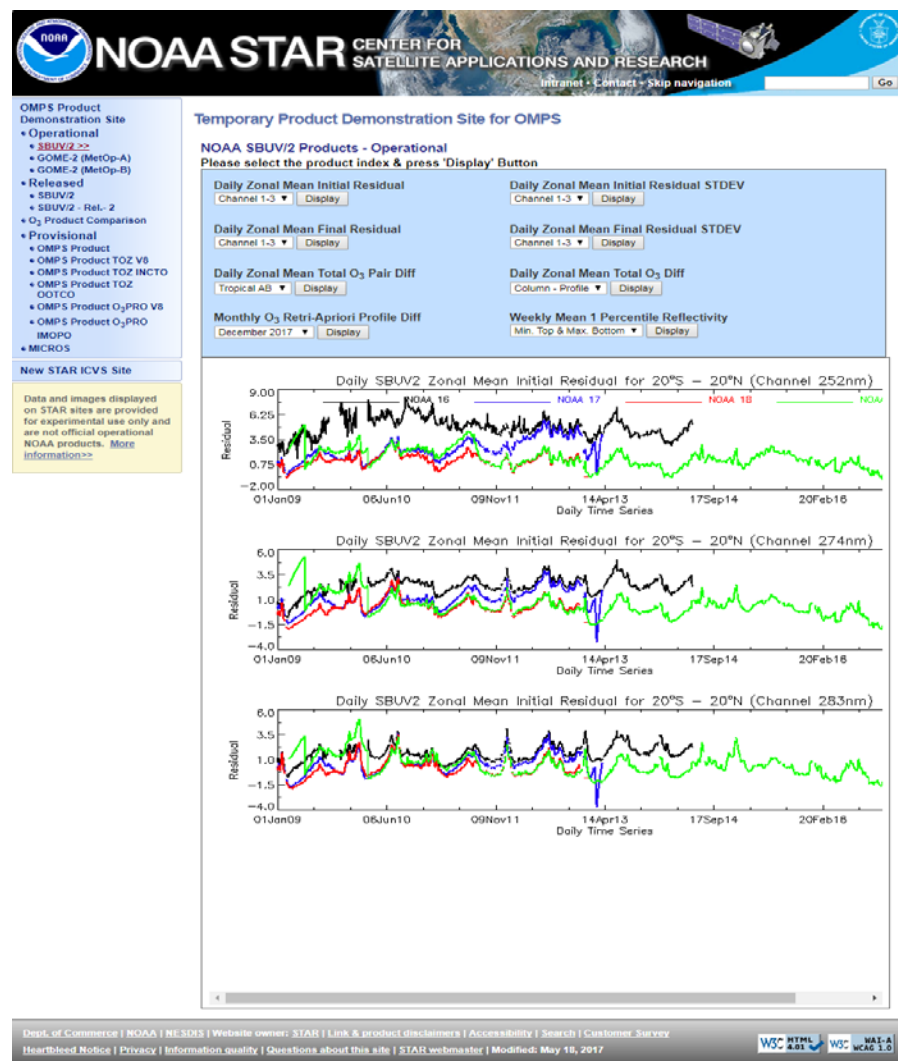
## General Characteristics of site:

- Depicts performance of products from OMPS, GOME-2 and SBUV/2 measurements
- 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 in process of being redesigned and relocated

A screenshot of the NOAA STAR website. The header features the NOAA logo, the text "NOAA STAR CENTER FOR SATELLITE APPLICATIONS AND RESEARCH", and a search bar. The main content area is titled "Temporary Product Demonstration Site for OMPS" and includes a paragraph about the site's purpose and a link to the new ICVS website. A left sidebar contains a menu with categories like "OMPS Product", "Operational", "Released", "Provisional", and "New STAR ICVS Site". The footer contains various links and logos, including the W3C logo.

# SBUV/2 V8 Operational Performance

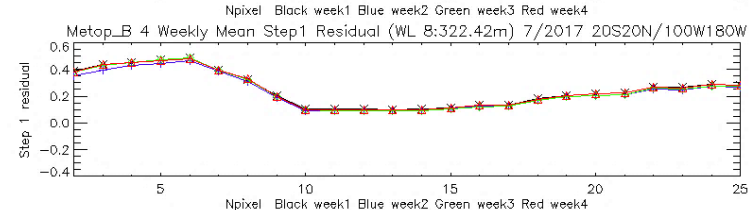
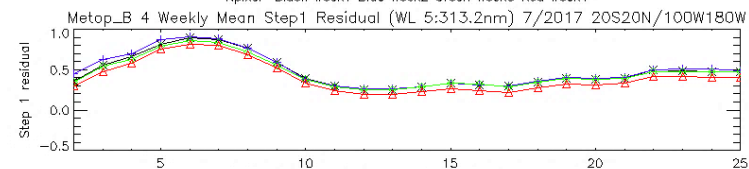
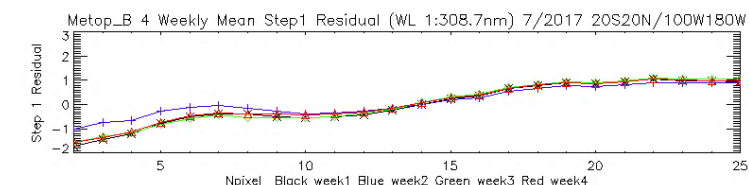
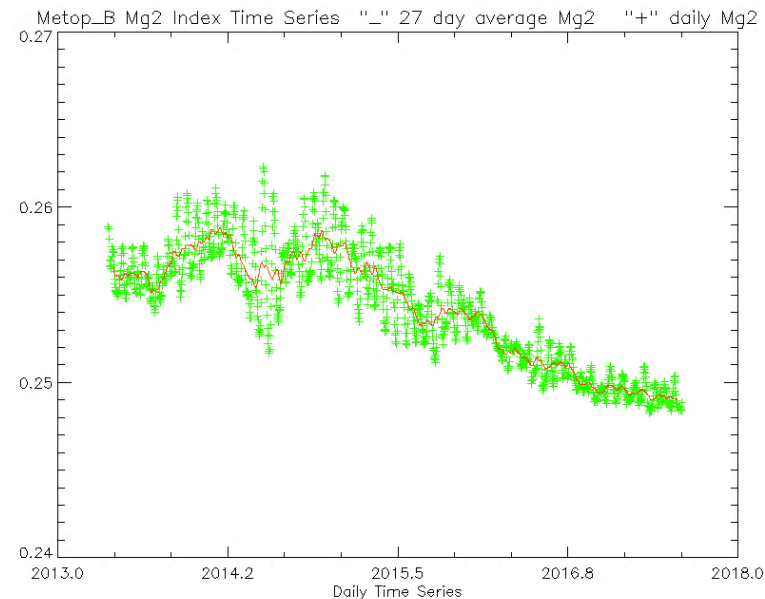
- SBUV/2 data products are monitored long term
- Parameters plotted include:
  - Daily zonal mean initial/final residual
  - Daily zonal mean initial/final residual standard deviation
  - Daily zonal mean total ozone pair difference
  - Monthly ozone retrieved a priori profile difference
  - Weekly mean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



# GOME-2 V8 (Metop A/B)

Parameters plotted include:

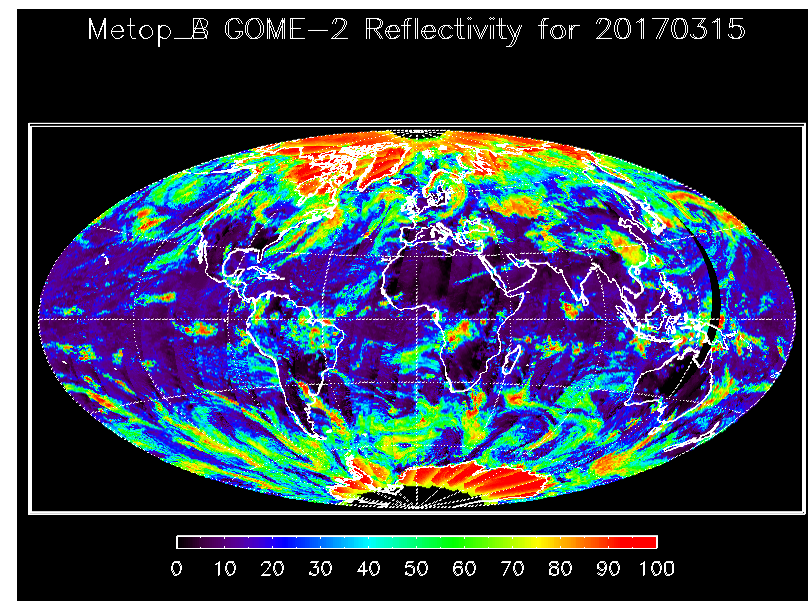
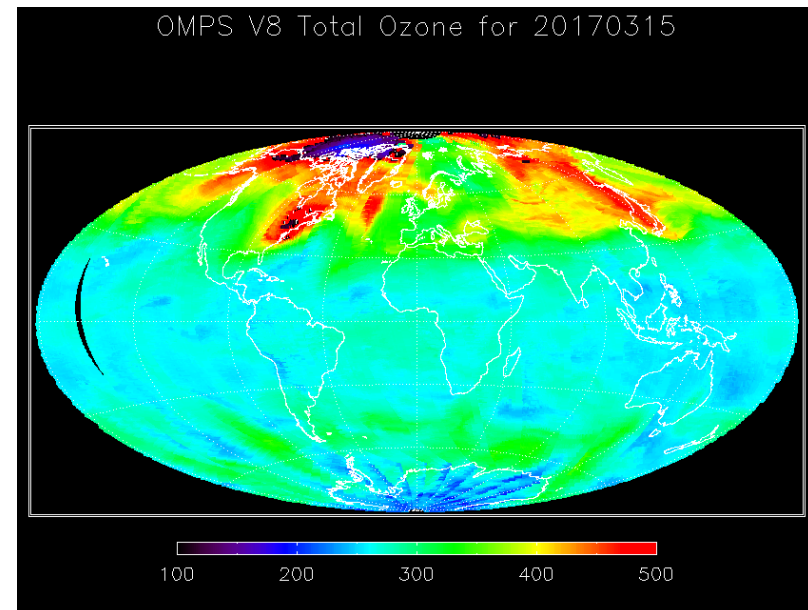
- Mg-II index
- Daily zonal mean total ozone, aerosol index, reflectivity, step 1 residual
- 4-Weekly mean total ozone, reflectivity, aerosol index, step 1 residual versus cross-track



# V8 OMPS, GOME-2, and OMI Maps

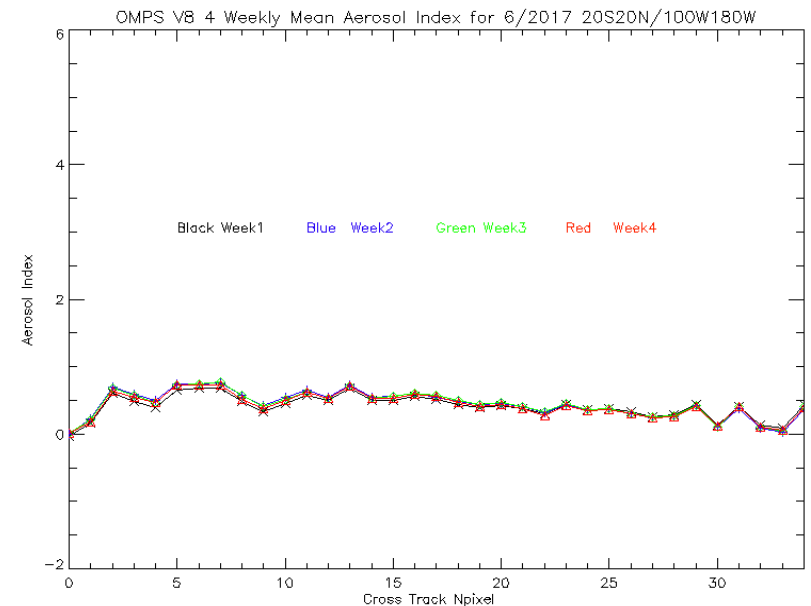
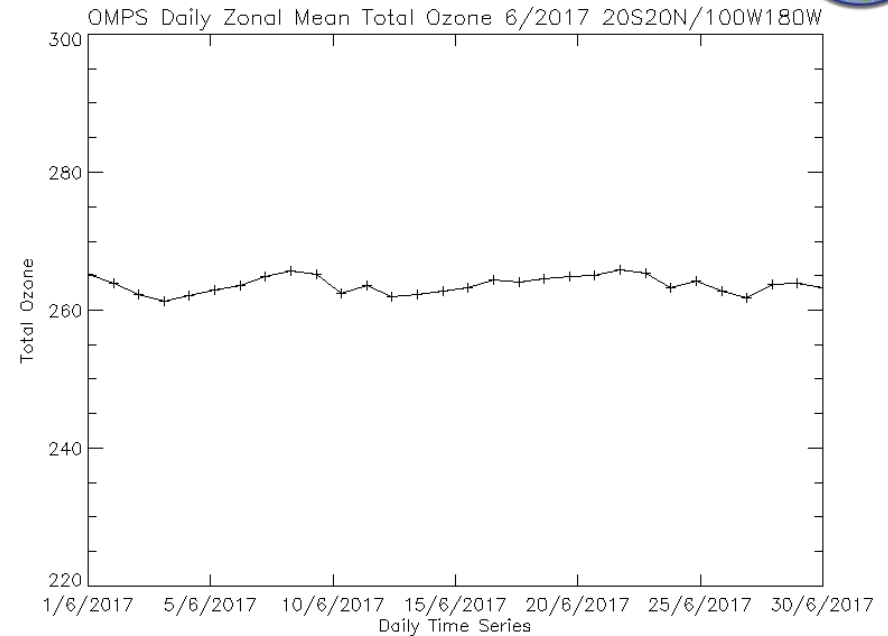
- Daily “postage stamp” images depicting total ozone, reflectivity, and aerosol index
- OMPS V8TOz, INCTO\*, OOTCO\*, METOP A/B GOME-2, and OMI products are available

\* - IDPS Products will be discontinued after V8TOz at NDE becomes operational  
NOAA-20 and METOP-C will be added in the future.



# OMPS V8 Total Ozone

- Monitor the performance of the V8 ozone, reflectivity, and aerosol index products
- Daily zonal mean and 4 weekly mean plots are available for each product
- Weekly mean plots monitor the cross-track bias dependence

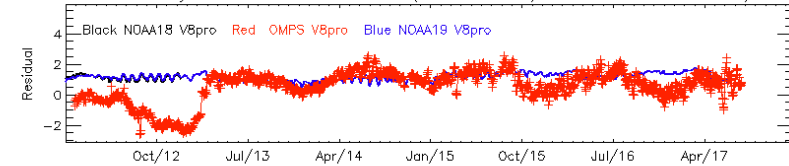




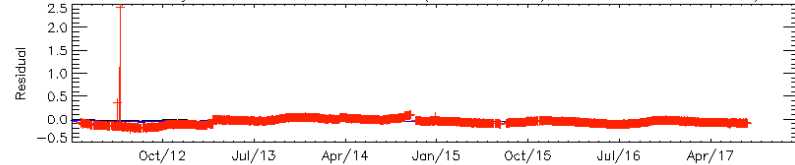
# OMPS V8 Profile Product

- Monitor the performance of the V8Pro products
- Plots produced:
  - Daily zonal mean initial/final residual
  - Zonal mean total column O3 minus profile total O3
  - Monthly average retrieved profiles minus A priori profiles

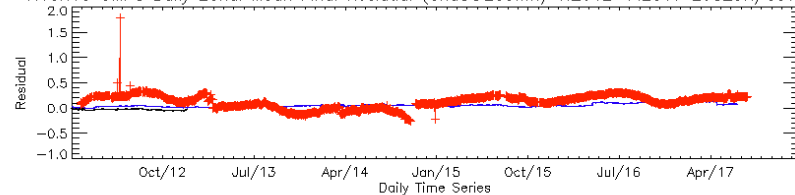
N18N19 OMPS Daily Zonal Mean Final Residual(Cha1@252nm) 1.2012-7.2017 20S20N/90W180W



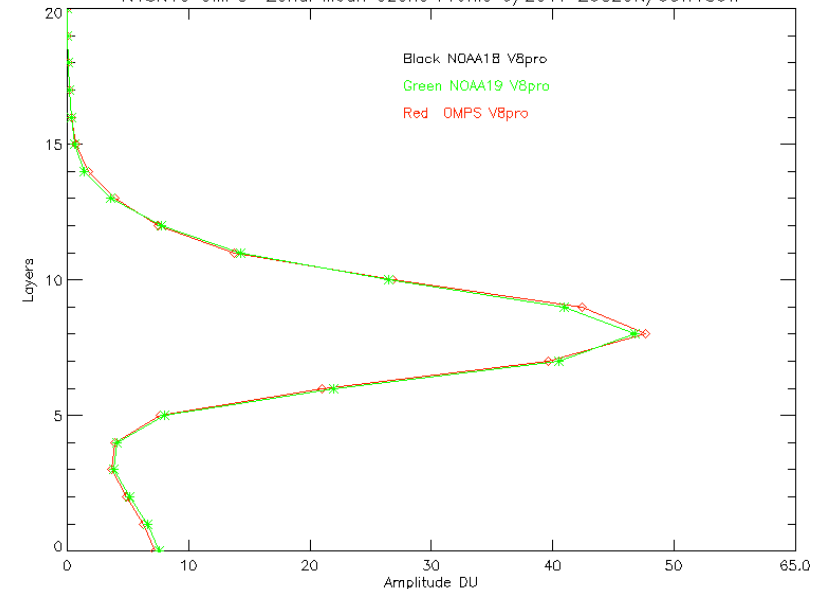
N18N19 OMPS Daily Zonal Mean Final Residual (Cha2@274nm) 1.2012-7.2017 20S20N/90W180W



N18N19 OMPS Daily Zonal Mean Final Residual (Cha3@283nm) 1.2012-7.2017 20S20N/90W180W



N18N19 OMPS Zonal Mean Ozone Profile 6/2017 20S20N/90W180W





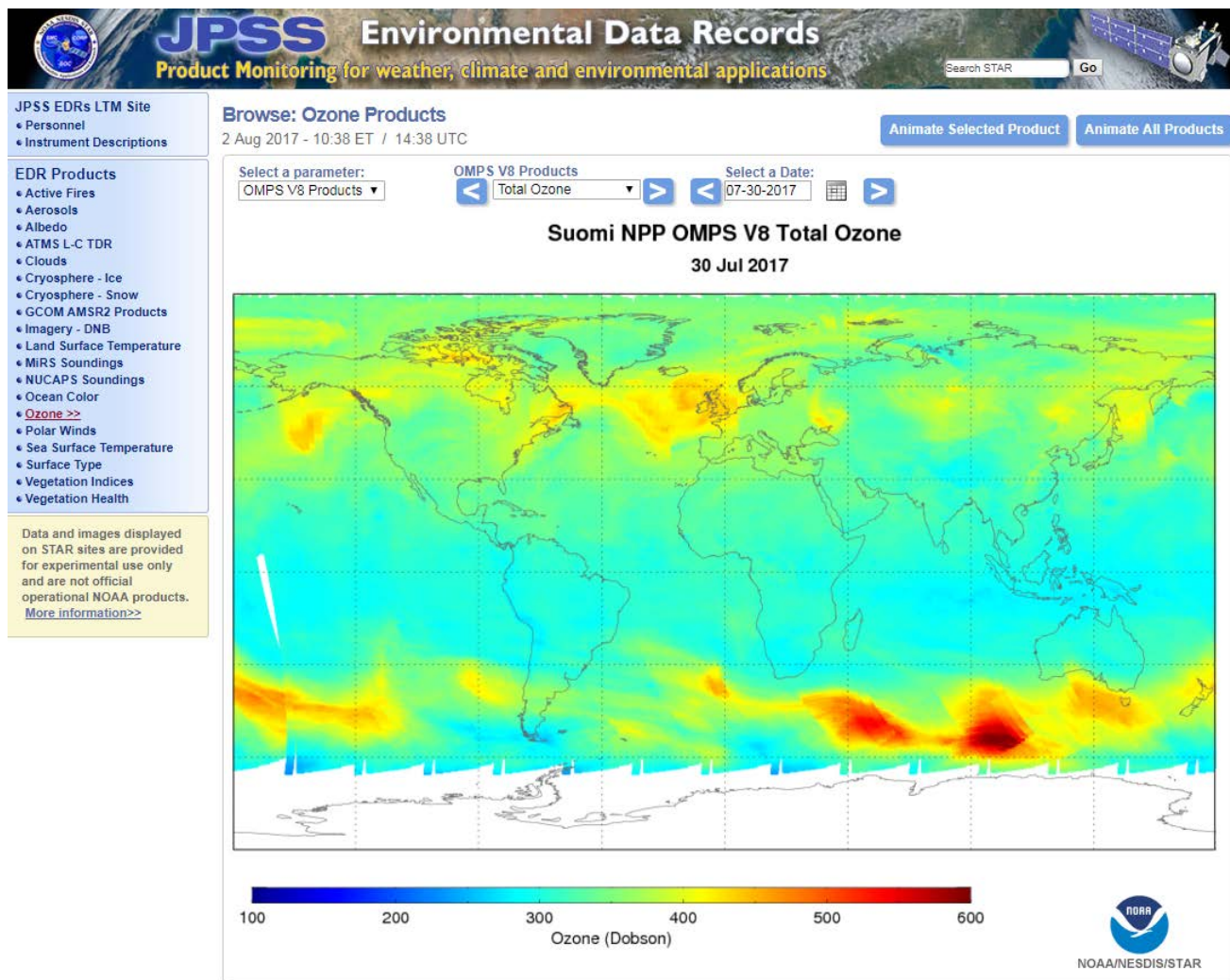
# New OMPS EDR Site Features

- Plots and images have consistent projections, labels, fonts, and sizes
- Navigation improvements 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 and saved as an animated GIF image.



# JPSS EDR LTM Site

[https://www.star.nesdis.noaa.gov/JPSS/EDRs/products\\_ozone.php](https://www.star.nesdis.noaa.gov/JPSS/EDRs/products_ozone.php)



# Conclusion

- Quick demo of web site
- Current EDR ICVS URL:  
<https://www.star.nesdis.noaa.gov/smcd/spb/OMPSDemo/index.php>
- New EDR ICVS site URL:  
[https://www.star.nesdis.noaa.gov/jpss/EDRs/products\\_ozone.php](https://www.star.nesdis.noaa.gov/jpss/EDRs/products_ozone.php)