



# SNPP ICVS Annual Review



## ICVS Web Interface Current Usage and Plans for Future Development

Lori K. Brown

StormCenter Communications  
at NOAA / NESDIS / STAR





# ICVS Web Interface



## Overview of ICVS site traffic, April 2014 – May 2015

- Using data from Google analytics, we see:
- ICVS pages received 43,477 visits during this period,
- ICVS traffic constitutes 8.19% of STAR’s aggregate website traffic
- SNPP status pages are most heavily used, accounting for 42.7% of page visits
- MetOp-B status pages were next most heavily used, with 9.89% of ICVS traffic
- There were only about 1237 visit to the animation page during this period.

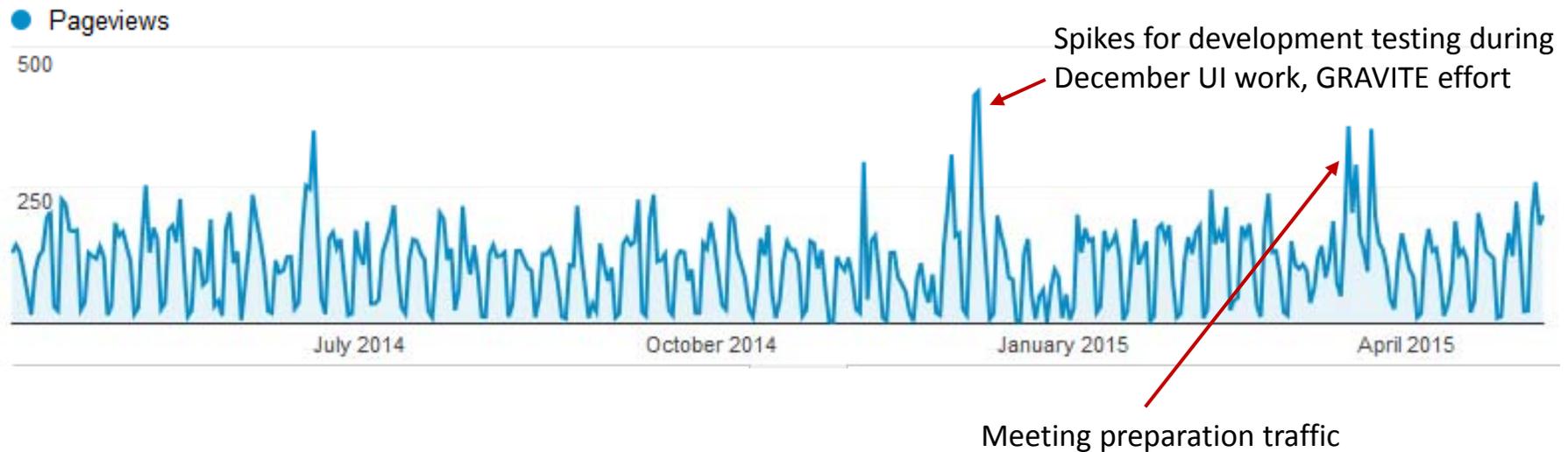
		43,477 % of Total: 8.19% (531,146)	43,477 % of Total: 8.19% (531,146)
1.	<a href="#">/icvs/status_NPP_ATMS.php</a>	6,414	14.75%
2.	<a href="#">/icvs/status_NPP_VIIRS.php</a>	4,825	11.10%
3.	<a href="#">/icvs/</a>	3,244	7.46%
4.	<a href="#">/icvs/status_NPP_CriS.php</a>	3,090	7.11%
5.	<a href="#">/icvs/index.php</a>	2,085	4.80%
6.	<a href="#">/icvs/status_MetOPB_HIRX.php</a>	1,650	3.80%
7.	<a href="#">/icvs/status_NPP_OMPS_NM.php</a>	1,605	3.69%
8.	<a href="#">/icvs/status_MetOPB_AMSUA.php</a>	1,316	3.03%
9.	<a href="#">/icvs/status_MetOPA_AMSUA.php</a>	1,309	3.01%
10.	<a href="#">/icvs/status_N18_AMSUA.php</a>	1,131	2.60%
11.	<a href="#">/icvs/status_NPP_sc.php</a>	1,131	2.60%
12.	<a href="#">/icvs/status_N19_AMSUA.php</a>	1,051	2.42%
13.	<a href="#">/icvs/status_N19_HIRS.php</a>	1,032	2.37%
14.	<a href="#">/icvs/status_NPP_OMPS_NP.php</a>	971	2.23%
15.	<a href="#">/icvs/status_MetOPB_MHS.php</a>	694	1.60%
16.	<a href="#">/icvs/status_MetOPB_AVHRR.php</a>	682	1.57%
17.	<a href="#">/icvs/status_N18_AVHRR.php</a>	675	1.55%
18.	<a href="#">/icvs/status_MetOPA_MHS.php</a>	594	1.37%
19.	<a href="#">/icvs/OperationalNotices.php</a>	546	1.26%
20.	<a href="#">/icvs/status_NPP_OMPS_LP.php</a>	544	1.25%



# ICVS Web Interface



## Daily ICVS page views April 2014 – May 2015



- Caveat about Google analytics results
  - Google Analytics is widely understood to undercount traffic by as much as a factor of 10.



# ICVS Web Interface



- What does the traffic data tell us?
  - Usage of the site is quite consistent over time
  - Very few spikes, very quiet on the weekends (no surprise there!)
  - The animation feature is underutilized, relative to the value that users typically place on the ability to animate the review of charts.
- What changes does this data suggest?
  - Find a better way to incorporate animation into the site
  - Spread the good word about ICVS! It is underutilized still relative to the power and value of the analysis it supports.



# ICVS Web Interface



- Proposed interface changes for the coming year
  - Provide a form on the website to allow users to make online requests for anomaly notification;
    - » While the preferred parameters for anomaly notifications require customization and conversation in many cases, it is still valuable to allow users to at least initiate a request online.
    - » Our current anomaly notifications have only 20 or so subscribers; this valuable service should be extended to a wider ICVS user community
  - Consider restarting the population of ICVS's RSS feed of anomalies that was briefly established in 2014?
    - » Simplification of anomaly description and characterization in the feed would make this more feasible
    - » Could supply users who just want to have a general overview of all anomalies, like satellite program managers, vs. instrument teams with more specialized needs.



# ICVS Web Interface



- Proposed interface changes for the coming year, cont'd.

- Start providing more vector data charts, based on the CrIS prototype here:

[http://www.star.nesdis.noaa.gov/icvs/CrIS\\_vectorTest.php](http://www.star.nesdis.noaa.gov/icvs/CrIS_vectorTest.php)

- Vector charts should initially only be created for a single week of data at a time, for selected metrics

- Advantages:

- » Allows precise identification of the timing of anomalies by inspecting the chart – no need to initially search the source data

- » “Zoomable”

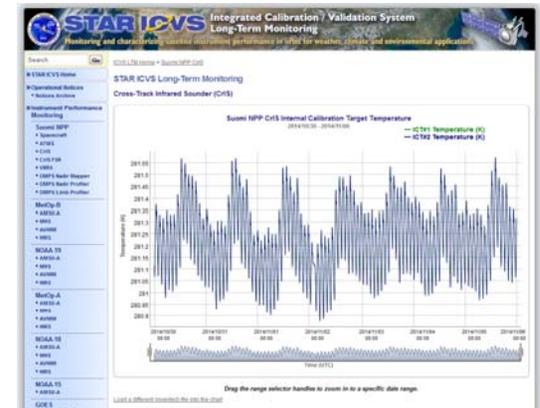
- » Vertical scale automatically adjusts to accurately represent anomalies without losing points ‘off the chart’.

- Challenges:

- » Large data files need to be managed, subsetted, without losing anomaly visibility

- » Some updates to interface required to allow users to navigate by date

- » Need to develop code to product the source CSV files to generate the charts, disseminate across instrument support teams



- Proposed interface changes for the coming year, cont'd.

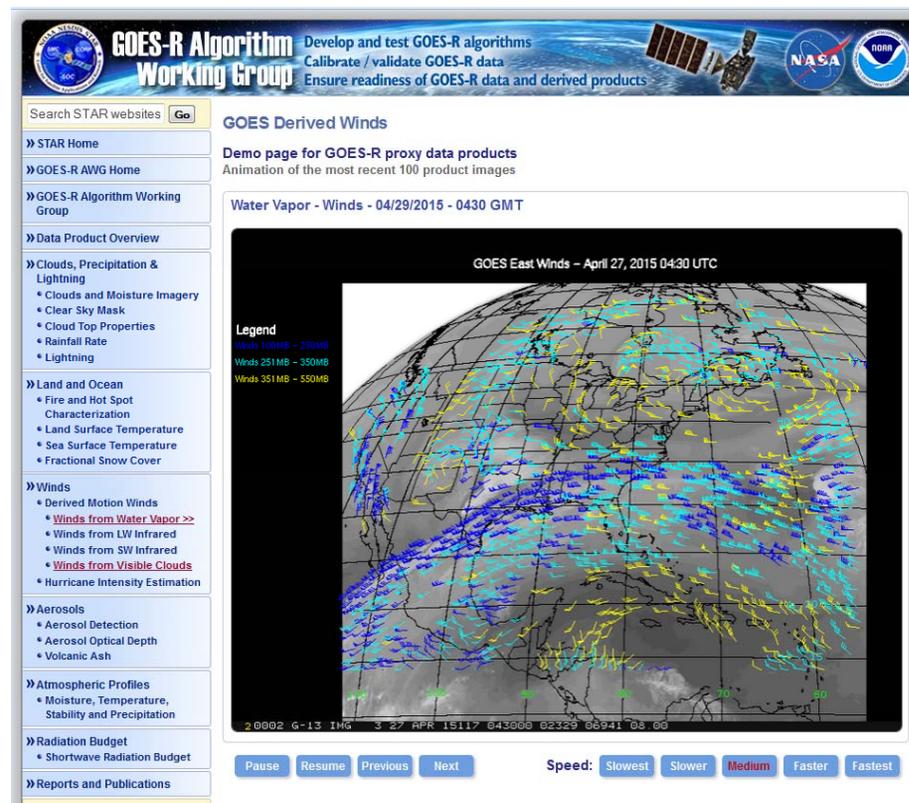
- New approach to chart animation:
- User clicks the metric on the status page that they want to see animated, which launches animation viewer that displays the 30 days prior to / including the selected chart's metric.
- Proposing similar interface to one developed for GOES-R Winds proxy product display.

- Advantages:

- Allow 'on the fly' selection of metric and time frame for animation
- Natural extension of the status page capabilities where users spend most of their time

- Challenges:

- Some design effort to integrate with existing code without affecting stability of the current codebase.



[http://www.star.nesdis.noaa.gov/goesr/product\\_DMWinds\\_WV.php](http://www.star.nesdis.noaa.gov/goesr/product_DMWinds_WV.php)



# ICVS Web Interface



- Conclusions
  - ICVS is a mature interface with a user community who expects it to work consistently and reliably;
  - The challenge is to extend its capabilities and evolve its functionality without disrupting the quality of the current user experience;
  - And to implement these extended capabilities in such a way that is easy to update, support and manage.