From the Editor:

Hello! You may immediately notice that this issue of *The Giovanni News* looks (and perhaps feels) different from previous issues. That is due to the fact that Wainie Youn, who assisted in the editing and formatting of the newsletter, has taken a new job with the Autism Society of America. I will miss her ability to create a dynamic look and flow to the newsletter each month, leaving me to the more antiquated methods that I use.

This issue contains the full agenda and schedule for the 2nd Gregory G. Leptoukh Online Giovanni Workshop. In addition, a new and improving feature of Giovanni-4 is highlighted. This issue is short as we are preparing for the workshop – next month’s issue, to follow shortly, will highlight Giovanni-4 development status.

Regards,
Jim Acker

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Noteworthy publications from July and August 2014

The following scientific papers appeared online in July and August 2014. Each paper used Giovanni in the performance of the research or in the presentation of the results.


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Agenda – The 2\textsuperscript{nd} Gregory G. Leptoukh Online Giovanni Workshop

**Day 1: November 10, 2014**

(Times are given for U.S. Eastern Standard Time and Universal Time, as EDT/UTC.)

**09:00/14:00**
Opening Remarks: Greetings, Acknowledgments

**09:30/14:30**
Current Status – Data portals, data sets, analytical functions, and visualizations

**10:00/15:00**
*Status of Giovanni-4 – Chris Lynnes, NASA GES DISC*

**11:00/16:00**
Research Highlights and Connecting with the Giovanni Community

**11:30 – 13:00 / 16:30 – 18:00**
Break

**13:00-14:00 /18:00 – 19:00**
*Cecile Rousseaux* - Decadal Trends in Global Pelagic Ocean Chlorophyll: A New Assessment Combining Multiple Satellites, In Situ Data, and Models

**14:00-15:00/19:00-20:00**
*Gregory Jenkins* - The use of Giovanni in examining air quality in West Africa associated with summer and winter season Saharan dust events

**15:00-16:00/20:00 – 21:00**
*Ramesh Singh* - NASA GIOVANNI TOOL – A Unique Tool to Understand Land-Ocean-Atmospheric Coupling Associated with Natural Hazards

**End of Day 1**
Day 2: November 12, 2014

09:00 – 10:00 / 14:00 – 15:00
Pavel Kishcha - Meridional distribution of aerosol optical thickness and cloud fraction over the tropical Atlantic Ocean

10:00-11:00 / 15:00 – 16:00
Adnan Al-Azri - Mesoscale and Nutrient Conditions Associated with the Massive 2008 Cochlodinium polykrikoides Bloom in the Sea of Oman/Arabian Gulf

11:00 – 12:00 / 16:00 – 17:00
John Lehrter - Use of Satellite Remote Sensing to Improve Coastal Hypoxia Prediction

12:00 - 14:00 / 17:00 – 19:00
Break

14:00 – 15:00 / 19:00 – 20:00
Bumjun Kil - Evidence That an Optical Tail in the Gulf of Mexico After Tropical Cyclone Isaac was the Result of Offshore Advection of Coastal Water

15:00-16:00 / 20:00-21:00
Yoana Voynova - Wind to zooplankton: Ecosystem-wide influence of seasonal wind-driven upwelling in and around the Delaware Bay

End of Day 2

Day 3: November 13, 2014

10:00 – 11:00 / 15:00 – 16:00
Michael Taylor – How a synergy of GOCART, MODIS, and AERONET data can be used to train neural networks for producing global aerosol volume size distributions from space

11:00 – 12:00 / 16:00-17:00
Shovonlal Roy - Phytoplankton dynamics and time-varying ecosystem indicators using NASA-Giovanni data

12:00 – 14:00 / 17:00 – 19:00
Break

14:00 – 15:00 / 19:00 – 20:00
Yangyang Xu - The radiative forcing of carbonaceous aerosols over California based on satellite and ground observations

15:00 – 16:00 / 20:00 – 21:00
James Acker - Characterization of Environmental Factors Before and During the Lake Erie Toxic Phytoplankton Bloom in August 2014

End of Day 3
Day 4: Global Poster Session
Poster Titles and Authors

Critical phenomena of rainfall in Ecuador
Sheila Serrano-Vicenti, Nicolás Vásquez, Pablo Jácome, and Leonardo Basile

Impact of satellite rainfall assimilation on Weather Research and Forecasting model predictions over the Indian region
Prashant Kumar, C. M. Kishtawal, and P. K. Pal

Assessment of regional climatic changes in the Eastern Himalayan region: a study using multi-satellite remote sensing data sets
Anubha Agrawal

Long-term memory of atmospheric aerosols over India
B. Abish

Application of Giovanni for classifying weather types associated with aerosol episodes over Indo-Gangetic Plains, India
Dimitris Kaskaoutis

Chlorophyll concentrations in response to monsoonal changes: West Coast of Luzon, Philippines
Karl Szekielda

Spatial and temporal variability of ozone and nitrogen dioxide over a major urban estuarine ecosystem
Maria Tzortziou, Jay R. Herman, Alexander Cede, Christopher P. Loughner, Nader Abuhassan, and Sheenali Naik

Seasonal Influenza’s Association with Specific Humidity in Three Tropical Central American Countries: Honduras, Nicaragua and Costa Rica
Radina Soebiyanto

Iron-fertilisation by Antarctic krill enhances the South Georgia phytoplankton bloom
Katrin Schmidt, Angus Atkinson, Christian Schlosser, Sophie Fielding, Hugh Venables, Eric Achterberg

Spatio-Temporal Analysis of Nigeria’s Surface Aerosol data via GIOVANNI
Julius Akinyoola

Blocking anticyclone over European Russia in the summer of 2010: interplay between atmospheric dynamics and composition
Sergei Sitnov

Aerosols over the Indo-Gangetic Basin from 2000 – 2012
Margaret M. Wonsick and Rachel T. Pinker
Smoothed & Unsmoothed:

Giovanni-4 shows the data both ways

The images at left show a comparison of the unsmoothed and smoothed data visualization options in Giovanni-4. The data shown are MODIS-Aqua Aerosol Optical Depth, averaged over the period March 2004 – June 2004, for the eastern tropical Atlantic Ocean. In the spring of each year, the transport of dust from the Sahara Desert increases due to dust storm outbreaks.

The default option is unsmoothed (top), which shows the actual size and distribution of the individual grid cells that compose the Level 3 mapped data provided by Giovanni. Giovanni-4 recently added the smoothed option (bottom), adapted from the Grid Analysis and Display System (GrADS). This option more closely resembles the default option in Giovanni-3.

The images shown are the PNG image download, which was also recently added to Giovanni-4.