



GEO Blue Planet 5th Symposium

Local action in support of global traction

24 - 28 Oct 2022 | Accra, Ghana





5th Symposium | Accra, Ghana | 24 – 28 October 2022

Utilizing NASA Resources for Ocean Analysis

Drs. Richard Damoah & Antony Kinyua

Morgan State University



Training Objectives



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MORGANThe goals of the training are to:

i) Introduce NASA Giovanni Online Tool as a resource for ocean data analysis.

ii) Retrieve, process and analyze ocean data from different platforms using NASA Giovanni tool.

iii) Be able to use Giovanni tools to create different types of ocean data plots for ocean analysis.

Training Outcome

By the end of the training, participants will be able to utilize Giovanni to retrieve, process and visualize ocean data from different platforms for ocean related research activities.





Giovanni Tool



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Giovanni is Geospatial Interactive Online Visualization and Analysis Infrastructure. It is a Web-based platform developed by NASA's Goddard Earth Sciences Data and Information Services Center (GES DISC) to provide access to and utilization of remotely sensed data to create plots of different types and formats, compare variables and graphical display of information of environmental or multidisciplinary processes.









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Generate 10 years Sea Surface Temperature Trend







Google NASA Giovanni website http://disc.sci.gsfc.nasa.gov/giovanni

- **Register to get the full access**
- **At the Keyword search Sea Surface Temperature**
- **Select your Data**
- Under Time Series select Area-Average









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Under Date Selection, select from 2003-01 to 2012-12

Under Map Region put region of interest

Click on Plot data at bottom right and wait for the plot







Use your graphs to determine:

• The trend (Positive or Negative)

• The hottest month and year









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Generate Seasonal Plot (DJF, MAM, JJA, SON)

Determine the hottest DJF and JJA

Determine the coldest DJF and JJA





ACKNOWLEDGEMENTS



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Thank You. Medaase. Oyiwaladon.

