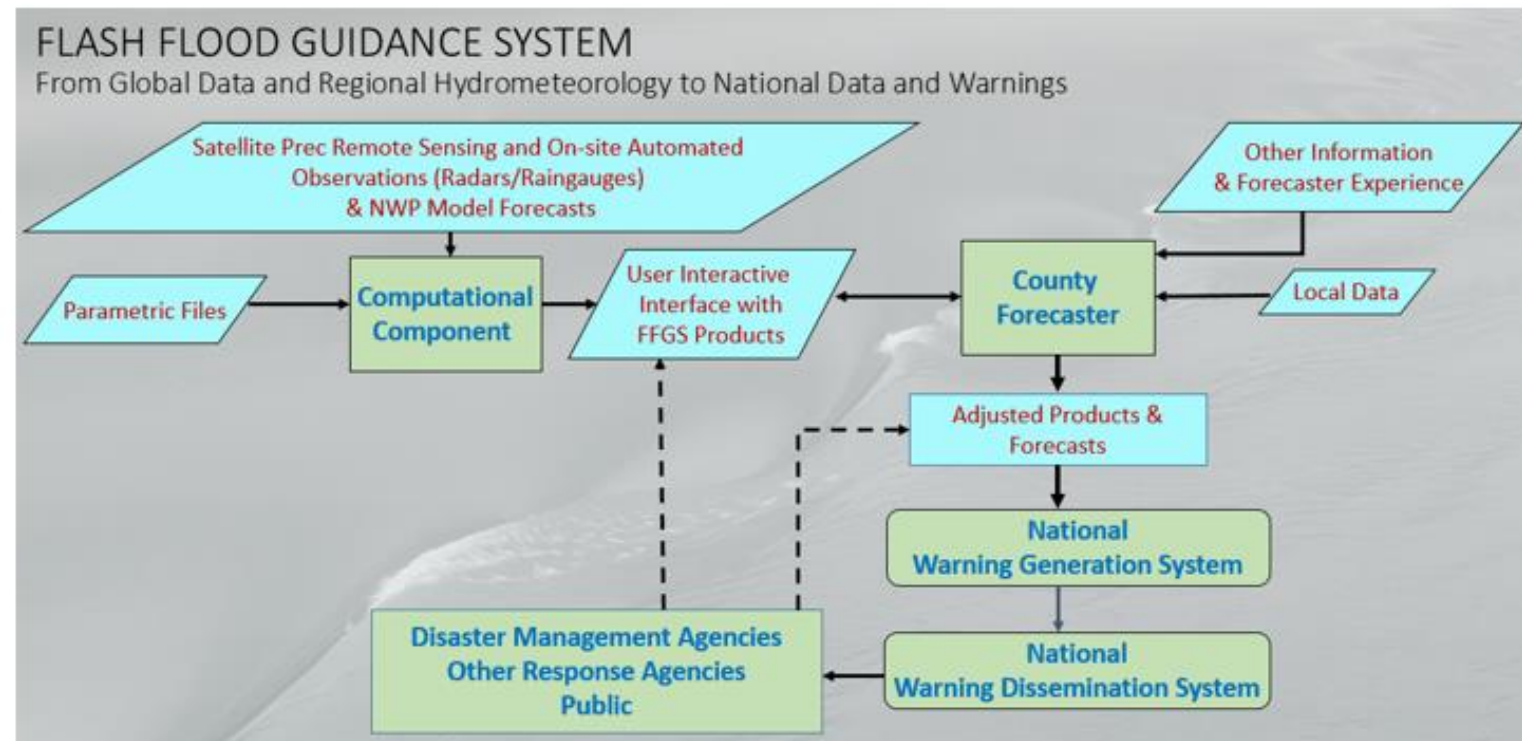
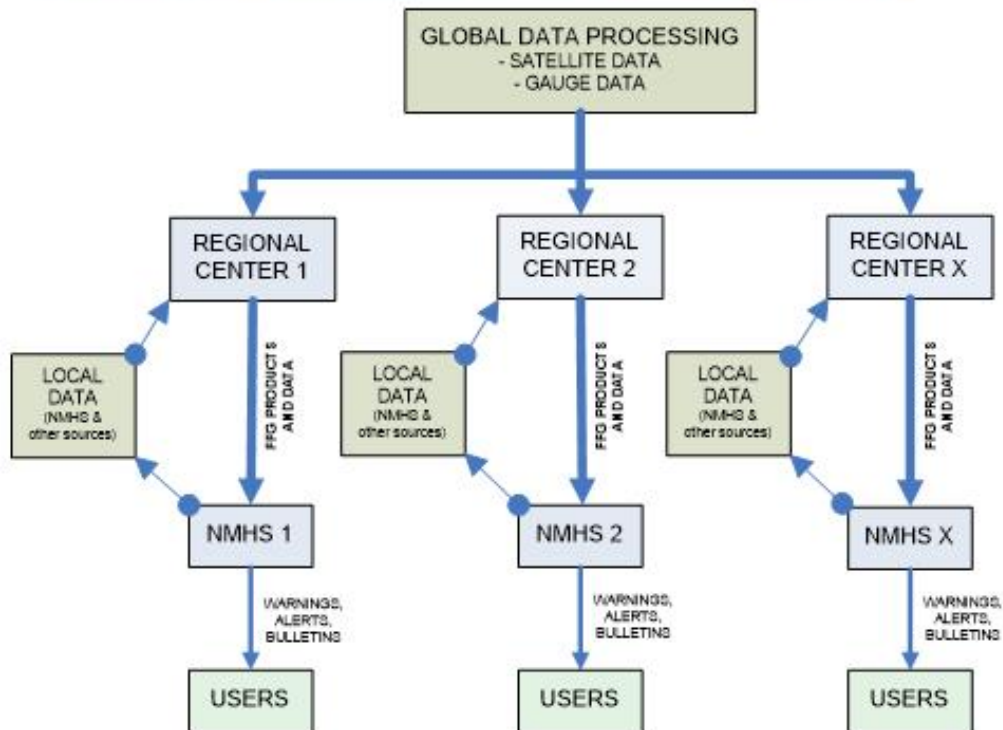


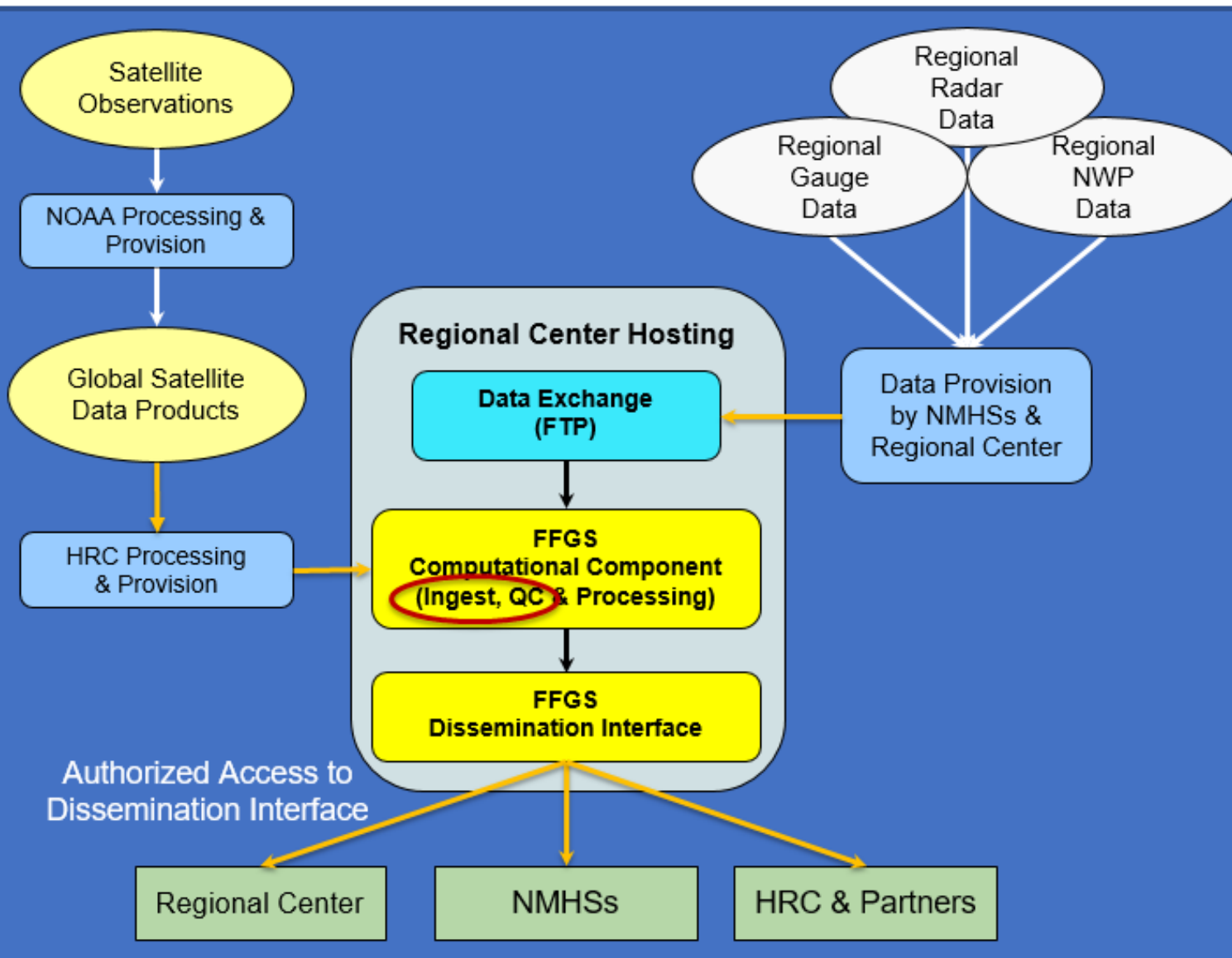
Data Needs and Realizable Exchange Strategies on Global Scales for High-Resolution Operational Land Surface Forecasts

K.P. Georgakakos, T.M. Modrick-Hansen, E. Shamir, Z. Cheng, J. Sperflage, C. Spencer and R. Banks
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Overall Poster Goal: To outline the relevant experience of the HRC Implementation Team over two decades of implementations of the Flash Flood Guidance System worldwide (11 Regional Centers serving 60+ countries)
(<https://public.wmo.int/en/projects/ffgs>)



FFGS Components, Input Provision and QC

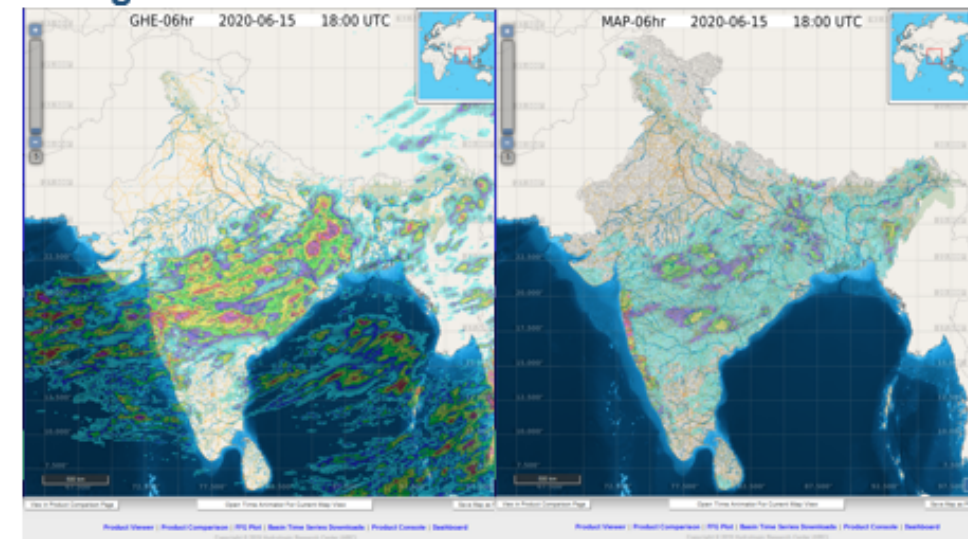


Data provided by NMHSs through dedicated Data Exchange at the Regional Center.

FFGS Computational Component:

- Ingests native, uncontrolled input data products.
- Harmonizes Data for Models, Assessments and Forecasts
- Adds value to data through climatological and dynamic quality control and through merging of diverse data sources to create combined measurements of key quantities

Output products accessed by authorized users through Dissemination Interface.



Satellite precipitation for the SAsiaFFGS

Merged basin mean areal precipitation from remotely and on-site data for the SAsiaFFGS

Lessons Learned and A Way Forward

Sustainability of Real-Time Data Transfers to Systems Varies Dramatically

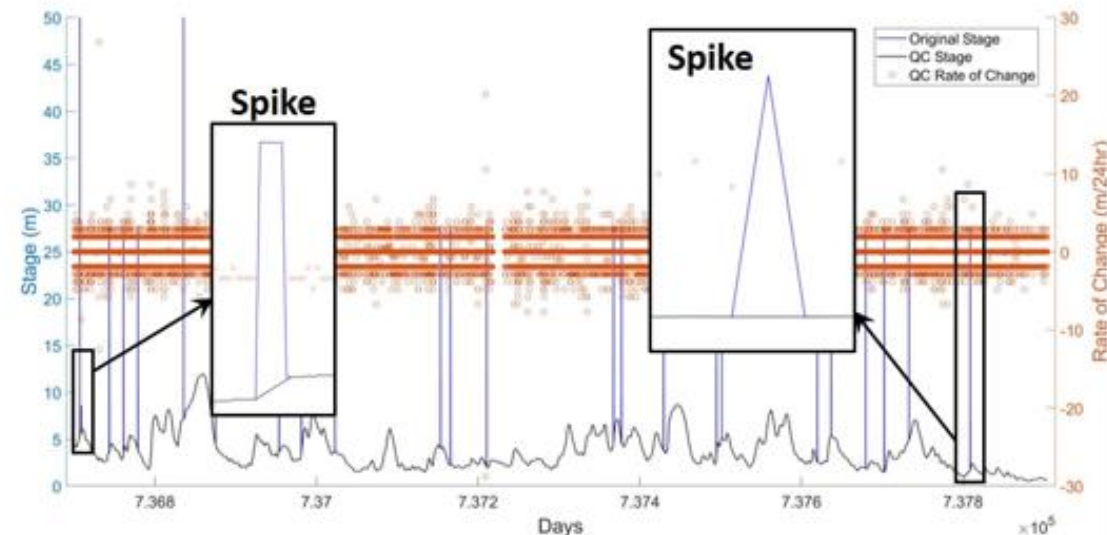
Quality of Data from Different Hydrometeorological Networks Varies Dramatically

Proprietary Formats are Used for Some Sensor Data with Minimal Training for the Data Owners

Owners Reluctant to Share when they Perceive Data Having Tangible Present Value

Need Incentives for Data Owners to Share Data

Need Incentives for Data Owners to Maintain and Improve the Data Quality by Setting Clear Standards and by Appropriate Training



Through data quality control and derivative products show increased value of the data for data owners

Make Assessment and Forecast Systems Flexible to Absorb New Datasets and Adjust to Changes in Data Quality

Encourage Training of Hydrometeorological Services on Data Quality Control for On-site and Remotely-Sensed Data

Universal QC FLAG OPTIONS

