







Use of FFGS Products in External Models

Konstantine P. Georgakakos, Sc.D.

HYDROLOGIC RESEARCH CENTER

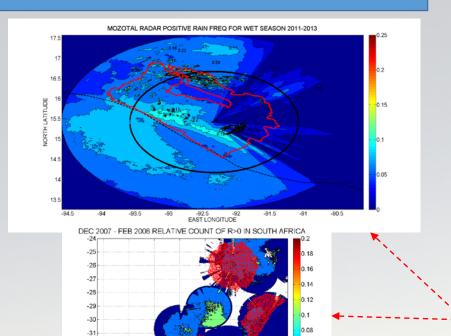
23 May 2018

Río de la Plata



FFGS Data Integration Component for Hydrometeorological Modeling and Assessments

Satellite Hydrometeorological Data
Weather Radar Data
Automated Precipitation Gauges
Automated Surface Observation Stations



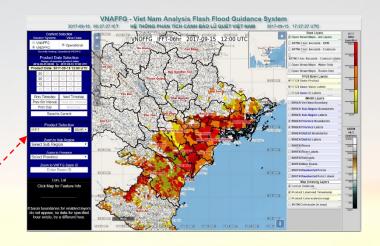
Pre-Processed-Data Database

Hydrometeorological Data Quality
Control (climatological and dynamic)
Delineated Basin Products
River Network Products

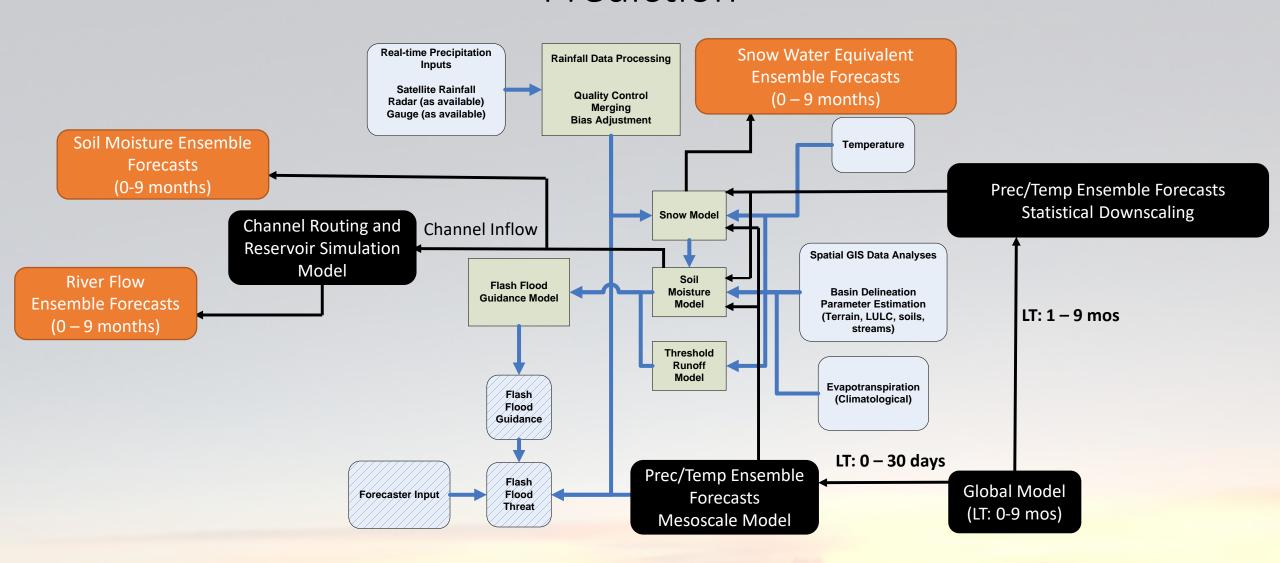
Processed-Data Database

User Interface (Displays and Digital Downloads)

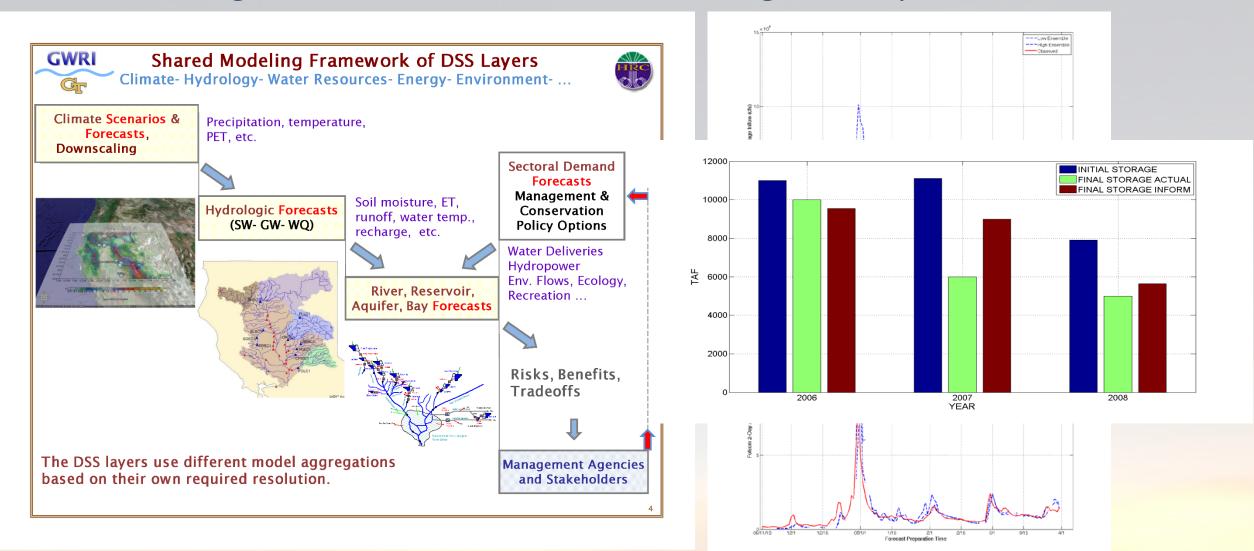
Digital Terrain Elevation Data
Land-Use Land-Cover Data
Soil Type and Depth Data
Stream Cross Sectional Surveys
Reservoir Characteristics and Rules



FFGS Enhanced for Seasonal to Sub-seasonal Land-Surface Prediction



Sacramento River Example in California, USA The Integrated Forecast and Reservoir Management System - INFORM



Urban Flash Flood Early Warning System Component

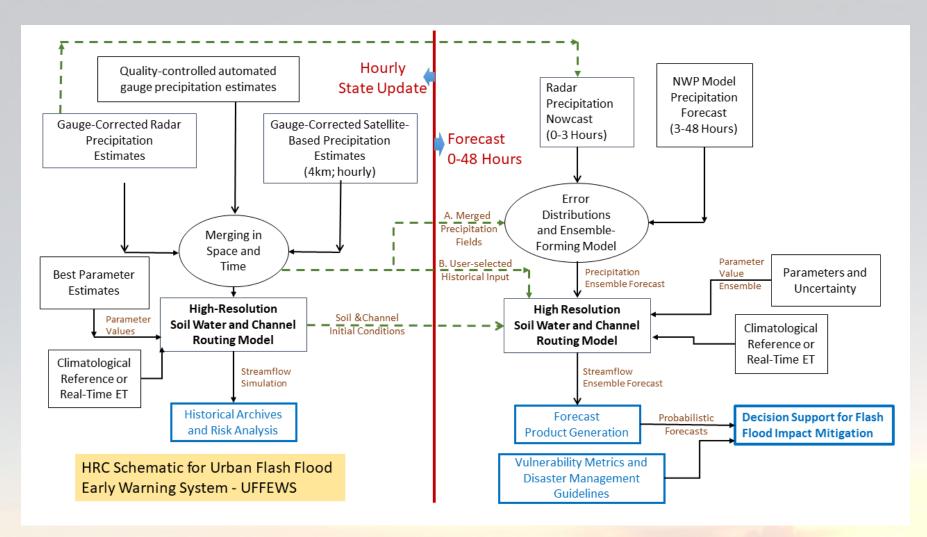




Figure 10. Inundation polygons derived from different discharge values indicating where inundation is likely to occur (HRC).

Thank You

The Hydrologic Research Center FFGS Staff http://www.hrcwater.org



Hydrometeorology

Dr. Konstantine Georgakakos

Dr. Theresa Modrick

Hydrology

Dr. Eylon Shamir

Meteorology/Climate

Mr. Bob Jubach

Dr. Nicholas E. Graham

Training/Education

Dr. Rochelle Graham

River Mechanics

Dr. Zhengyang Cheng

Computer Science/Eng.

Mr. Jason Sperfslage

Mr. Cris Spencer

Mr. Randall Banks