Global Flood Monitoring System (GFMS)

Robert Adler/Huan Wu-- U. of Maryland

Global <u>Real-time</u> Flood Calculations Using Satellite Rainfall and Hydrological Model



Peru Flooding—Status 26 March 2017







Rain over the last day still concentrated in northwest Peru. Forecast rainfall for next three days from NASA GEOS-5 global model shows continued concentration in northwest (over 150 mm) and along coast to the south. The overview flood calculation from Global Flood Monitoring System (GFMS) [flood.umd.edu] today shows flooding still concentrated in the northwest-forecast flood maps on next slide.



Forecast of Flooding (Streamflow above Flood Threshold) over 26-30 March



Inundation Estimate 26 March 2017



Comparison of Sentinel and GFMS Inundation Estimates





Estimated and Forecast Streamflow at city of Piura along Piura River

Streamflow at city of Piura (see location on a previous slide) hit new peak today. Forecast to drop quickly over next few days, although still above flood level. Lower bound of streamflow also gradually increasing all during March from near zero to 1500







GFMS (U. of Maryland) flood.umd.edu