

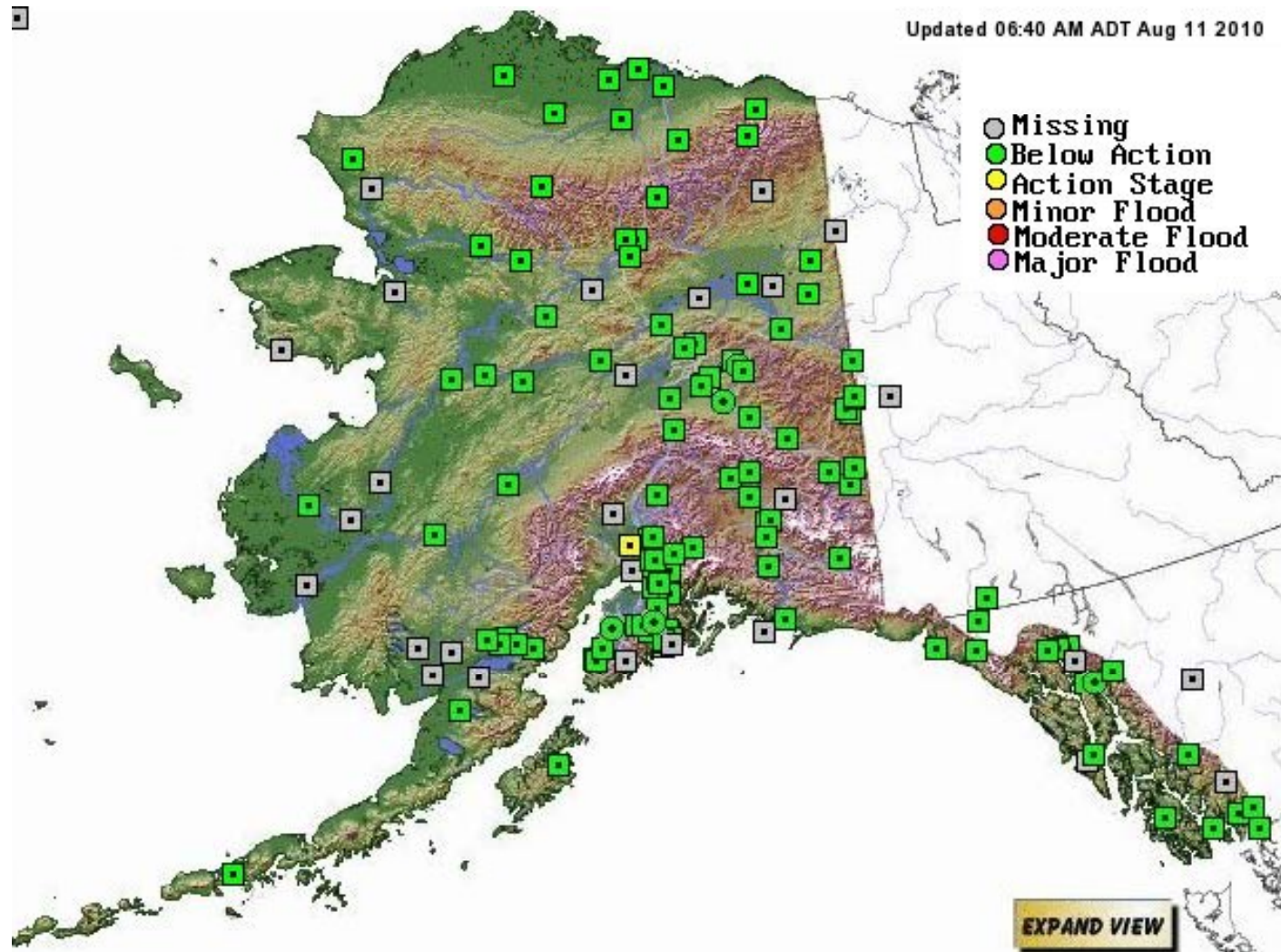
Alaska-Pacific River Forecast Center (APRFC - Anchorage AK)

Scott Lindsey – Development and Operations Hydrologist



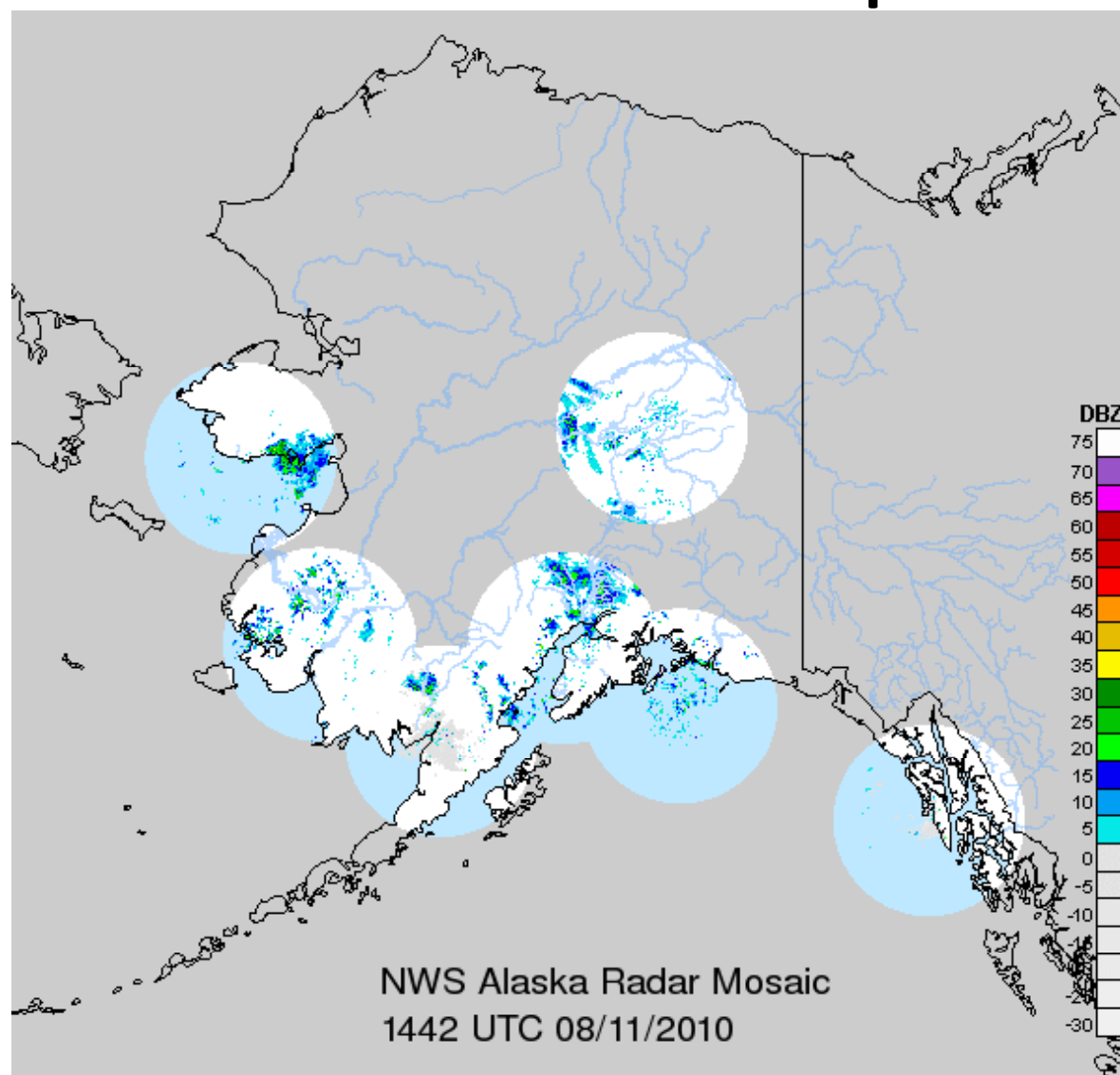
- Operational responsibility for Alaska rivers
- Require hydrometeorological information over Alaska, adjacent seas, Yukon
- Precipitation information is presently mainly from gauges and snow measurements
- No operational remote-sensor gridded precipitation covering the entire area of interest

APRFC Forecast Points

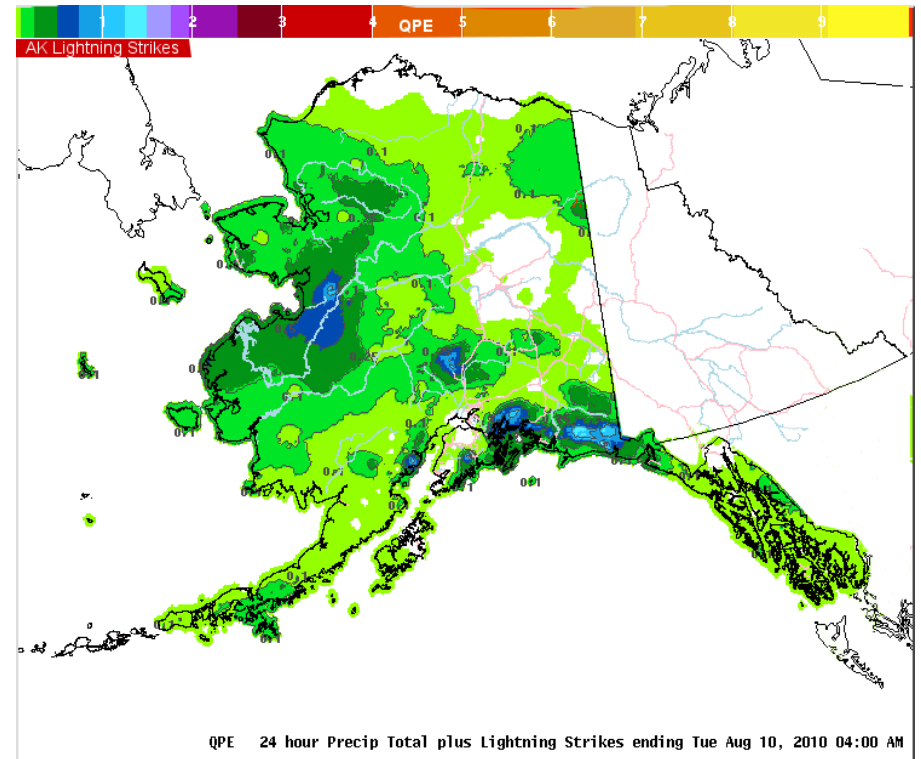
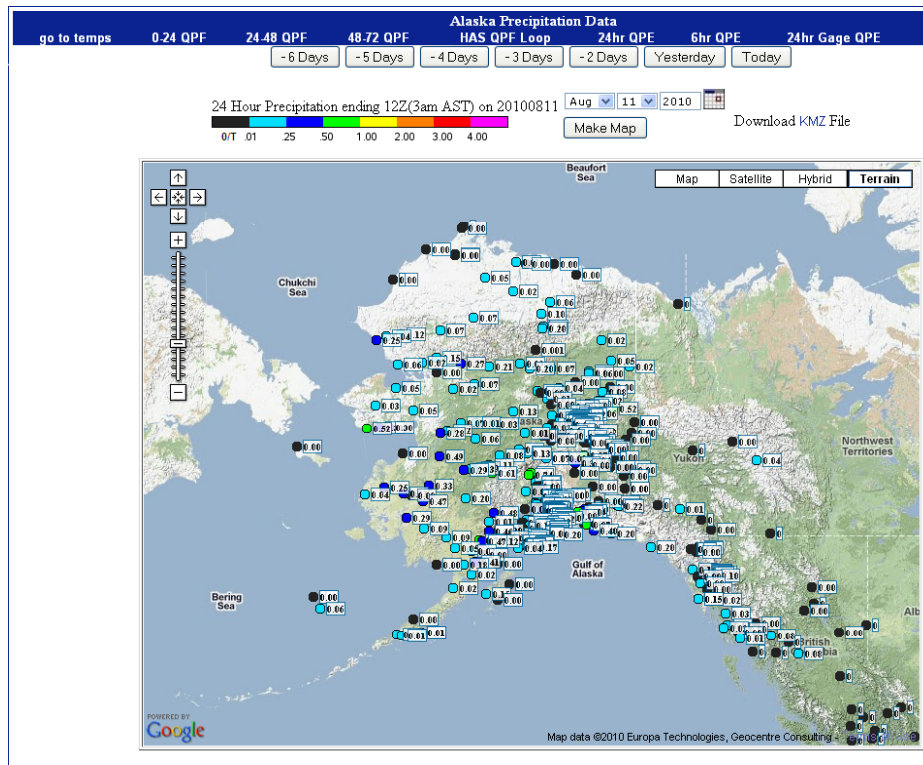




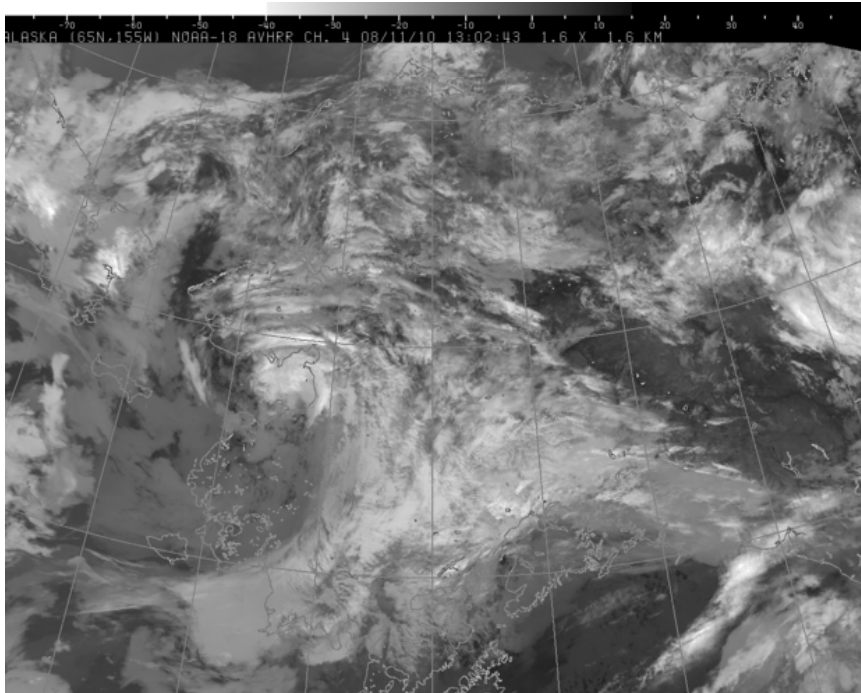
Radar Network is Sparse



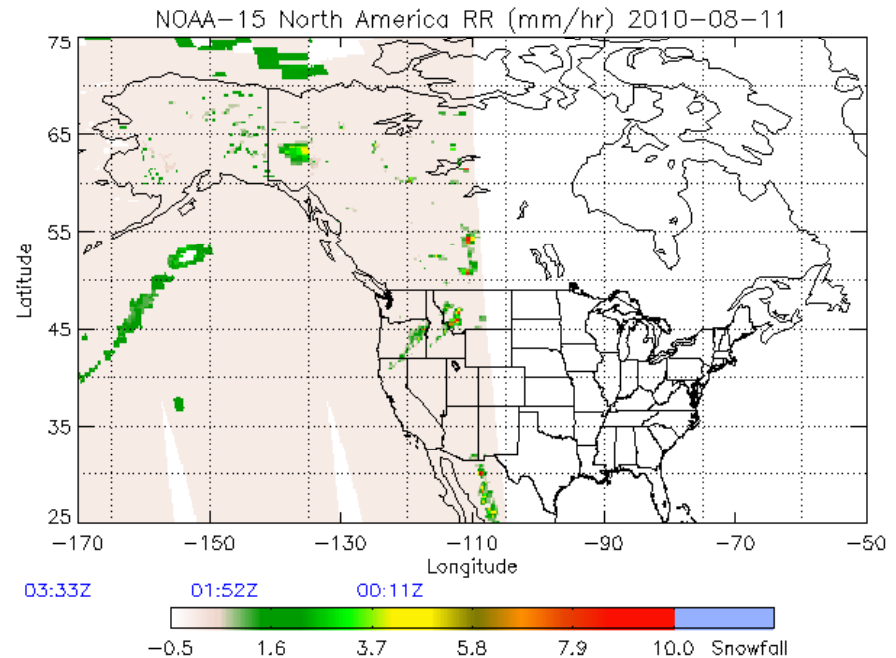
Precipitation grids are prepared from gauge reports



Operational Satellite Products Covering Alaska



AVHRR infrared



AMSU rainfall rates

Note that satellite acquisition and looping capabilities are fully developed, but quantitative use for precipitation is limited by lack of accumulation products

APRFC:



Gaps in current satellite product suite

- **Spatial (coverage) gaps:** Polar orbiter coverage available
- **Temporal gaps:** ~2h between scans
- **Latency gaps:** ??
- **Accuracy shortcomings:** No satellite precip accumulations available
- **How GPM era products might help:** Faster availability of passive microwave rainrates, advection/morphing to get accumulations



APRFC:

Next Steps for GPM-era data & products

- No funded activities specific to precipitation, at present
- Funding gaps for AWIPS development
- Work with NWS/OHD to develop AWIPS Multisensor Precipitation Estimator capabilities
- No direct interaction with NASA