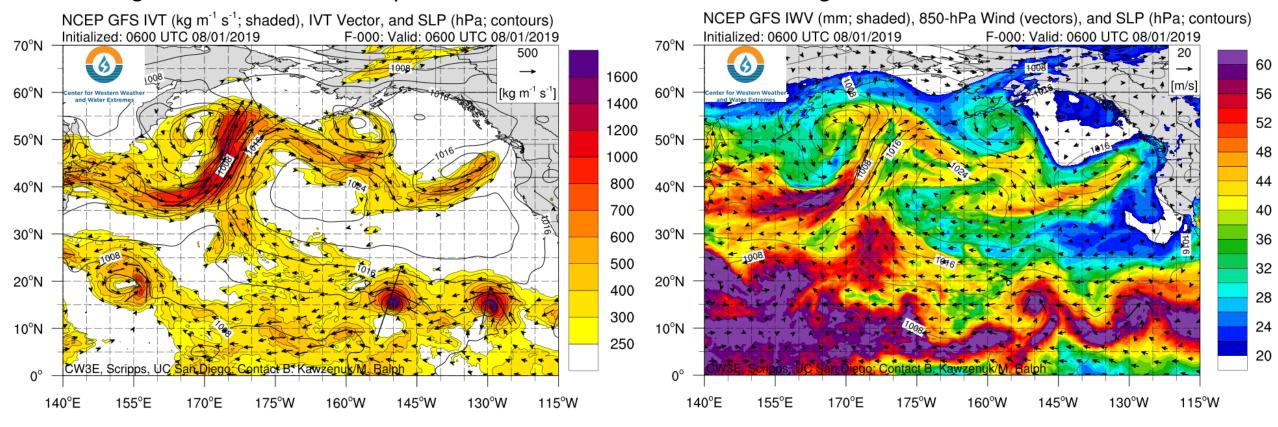
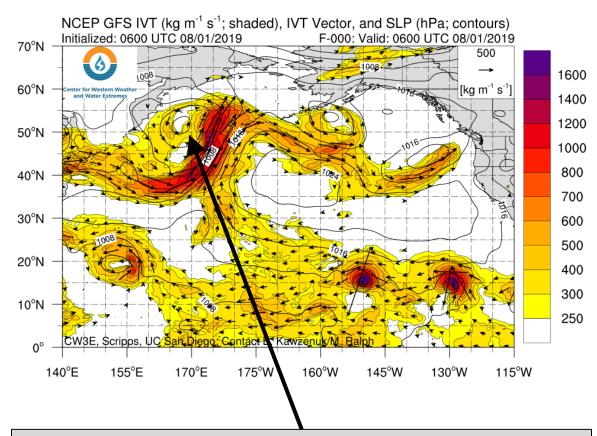
CW3E Atmospheric River Outlook



Strong and long-duration atmospheric river forecast to impact Alaska over the next several days

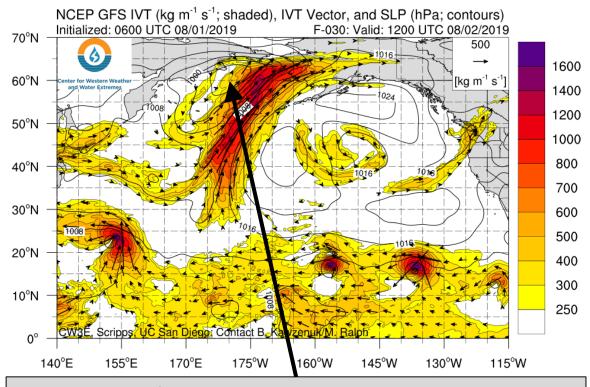
- An AR is forecast to make landfall over western Alaska beginning tomorrow, 02 August 2019, and ending on 06 August 2019
- IVT magnitudes >1000 kg m⁻¹ s⁻¹ are currently forecast for numerous coastal locations over western Alaska
- AR conditions could last between 40 and 96 hours for certain coastal locations
- Some locations in north-central Alaska could receive >4 inches of precipitation over the next 72-hours
- The Bering Sea at Golovin is currently forecast to rise ~1ft above minor flood stage





The formation of the AR is driven by a low-pressure system that undergoes cyclogenesis off the coast of the Russian Kamchatka Peninsula

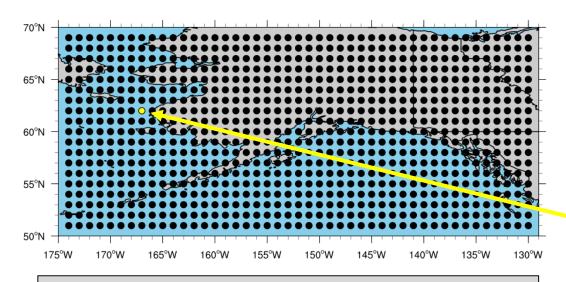




The low is then forecast to propagate northeastward and the attendant AR is forecast to strengthen and turn towards the West Coast of Alaska, north of the Aleutian Islands

As the AR initially makes landfall the presence of two high pressure centers in the North Pacific directs the IVT over Western Alaska to be more westerly than southwesterly

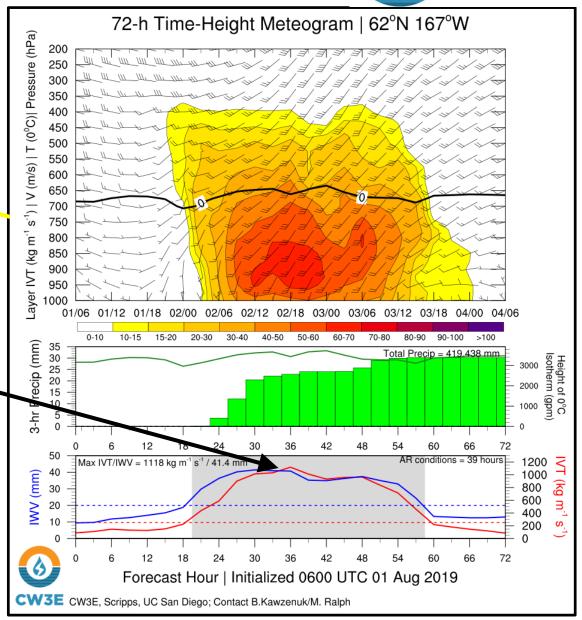




AR conditions off the western coast of Alaska over the Bering Sea are forecast by the GFS to last ~40 hours

The highest IVT (~1118 kg m $^{-1}$ s $^{-1}$) is forecast to occur at ~1800 UTC on August 2 nd

The GFS is currently forecasting ~419 mm (~16.5 in.) of precipitation during the next 72 hours over this location in the Bering Sea



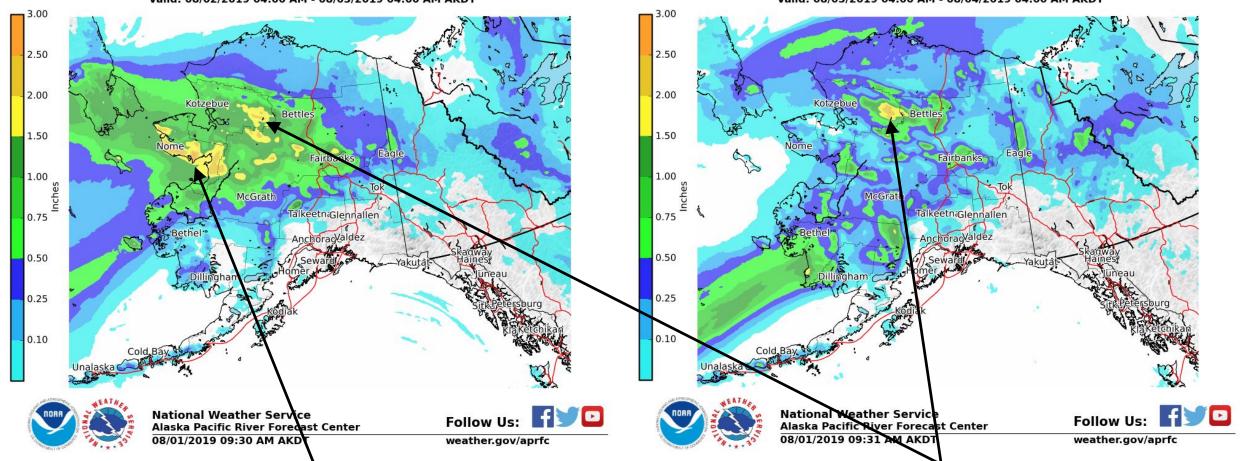








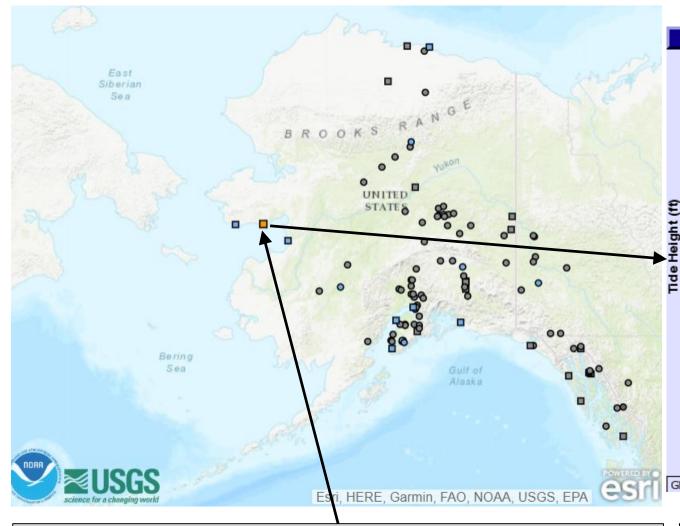


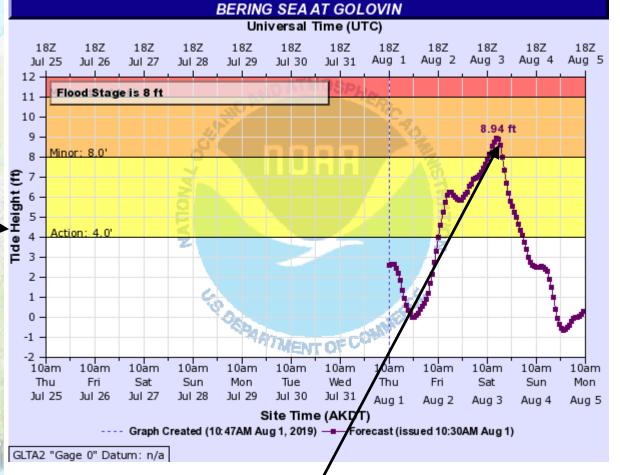


The Alaska Pacific River Forecast Center is currently forecasting >3 inches of precipitation over portions Western Alaska near Nome between 4AM AKDT 02 August and 4 AM AKDT 03 August

The higher elevations of the Brooks Range in North-Central Alaska are forecast to receive >2 in. of precipitation on both 02 and 03 August, bringing the 48-hour precipitation forecast to >4 in







The one gauge in Western Alaska that has an available forecast and a defined flood category is forecast to rise to minor flood stage on August 3rd

The Bering Sea at Golovin is forecast to rise to 8.94 feet, .94 feet above flood stage and 4.94 feet above action stage