



# Platte River, Nebraska Using Unmanned Aerial Systems for Fluvial Mapping

July 23-25, 2013

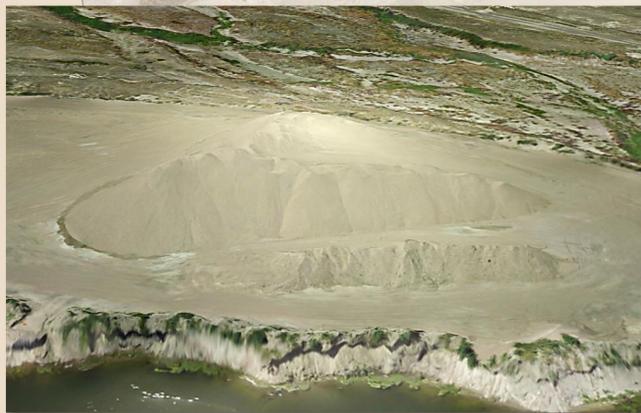
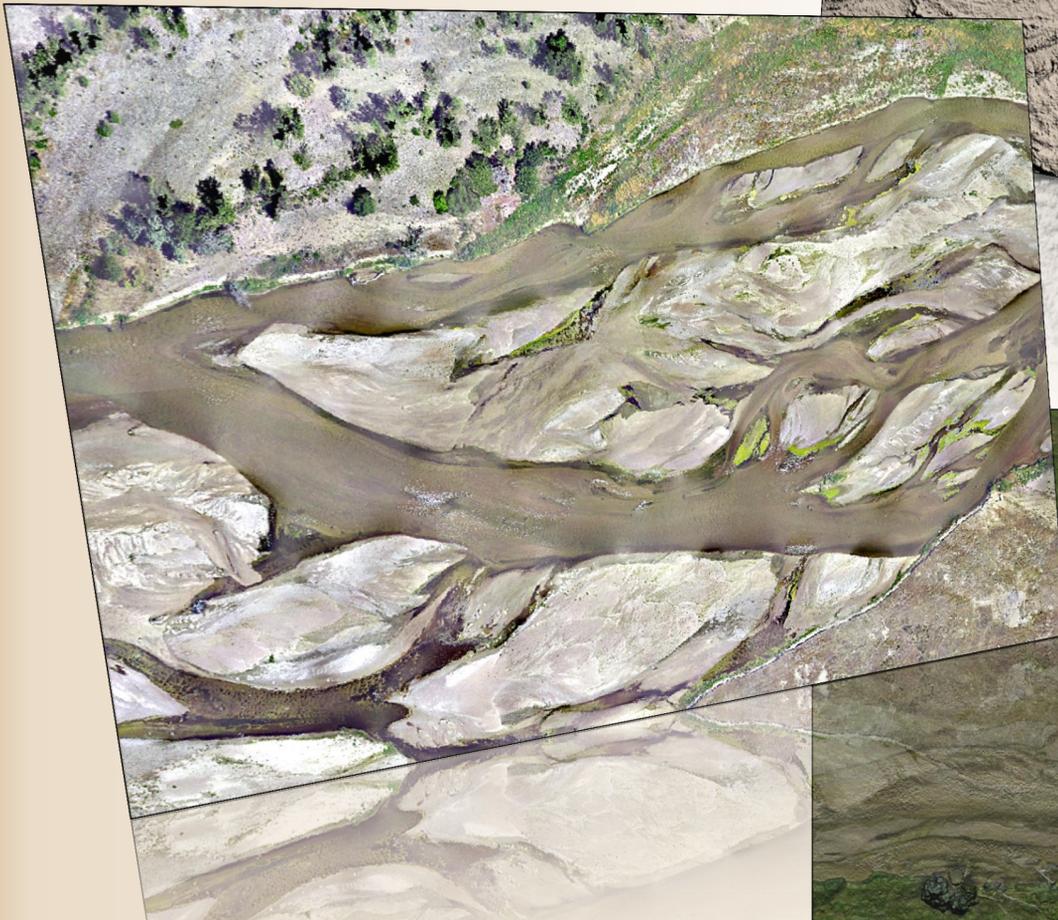
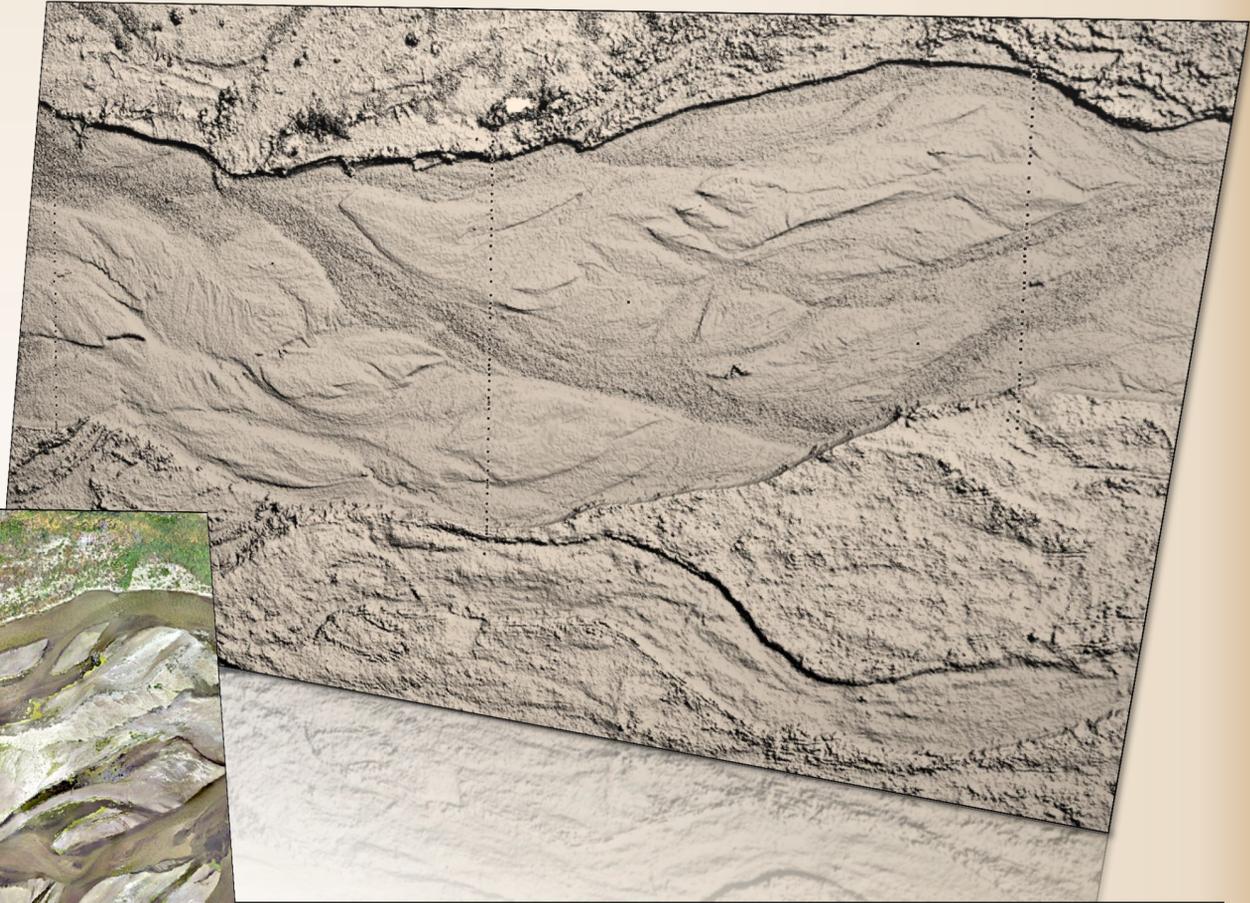


The pilot study prototypes the methodologies for an aerial survey for fluvial mapping, sediment monitoring and estimating water surface velocity in rivers.



Modified T-Hawk with Canon SX230 payload.

Real time kinematic surveyed locations are collected for control, accuracy assessments, and stream modeling.



Volumetric modeling of sediment sand pile.



Digital surface models and ortho imagery is created to the centimeter level of accuracy for emergent sandbar habitat studies.



The Department of the Interior - U.S. Geological Survey in coordination with the Federal Aviation Administration, performed unmanned aerial surveys as a proof-of-concept operation over the Platte River for fluvial mapping and water - surface velocity measurements in areas of emergent sandbars . For more information: <http://uas.usgs.gov>