03 / REPEAT-SURVEY COMPARISON

Surface change · 2019 → 2020

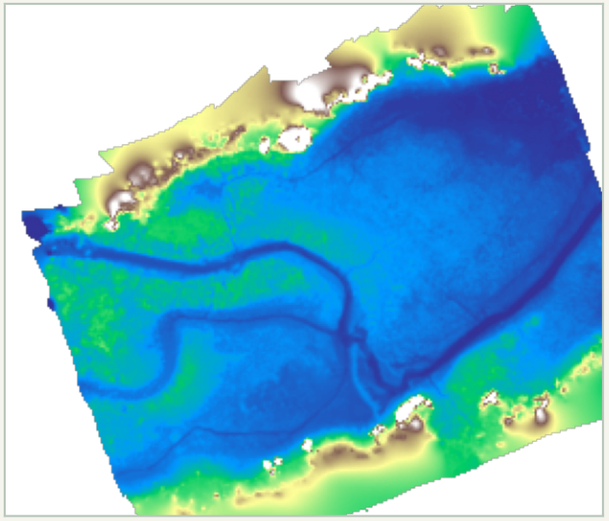
Bellamy River, USA / 22 Nov 2019 to 03 May 2020 / Analytical demonstration from two measured DSMs

4.83 ha
VALID COMPARISON AREA

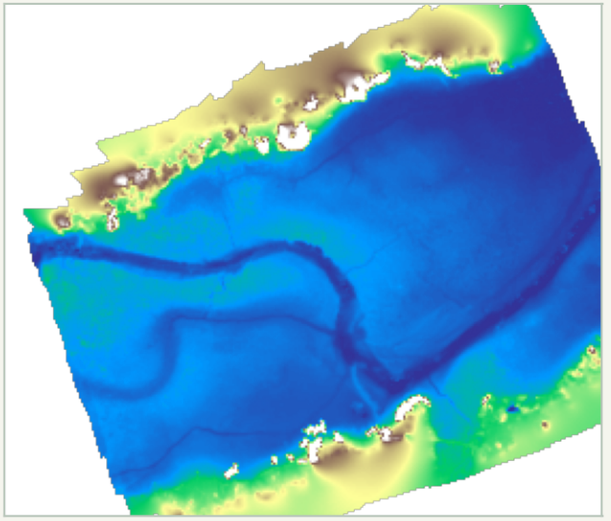
-0.19 m
MEDIAN SURFACE DIFFERENCE

7.2%
AREA OUTSIDE ±1 m

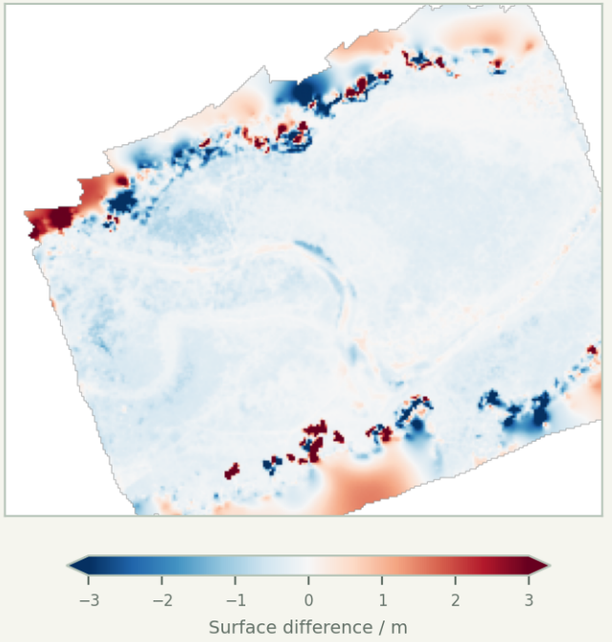
01 / BASELINE · 22 NOV 2019



02 / FOLLOW-UP · 03 MAY 2020



03 / DIFFERENCE · FOLLOW-UP − BASELINE



READ THE CHANGE WITH CONTEXT

Blue = lower surface. Red = higher surface. Colours are clipped at ±3 m for readability.

Differences can include vegetation, water, seasonality and reconstruction error; they do not establish ground movement.

METHOD Common 1 m UTM 19N grid; bilinear resampling; cells valid on both dates only. No additional co-registration.

LIMITATION ±1 m is a visual screening threshold, not a validated detection limit. No cut/fill or carbon claims are made.

Research-data example, not a verified engineering change assessment. Independent control and field validation are required.

Data: Alexandra Evans & Kevin Gardner / Figshare · CC BY 4.0. Preview by Caledon Geospatial.