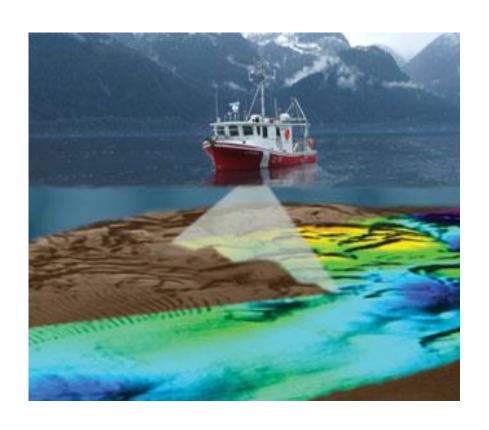
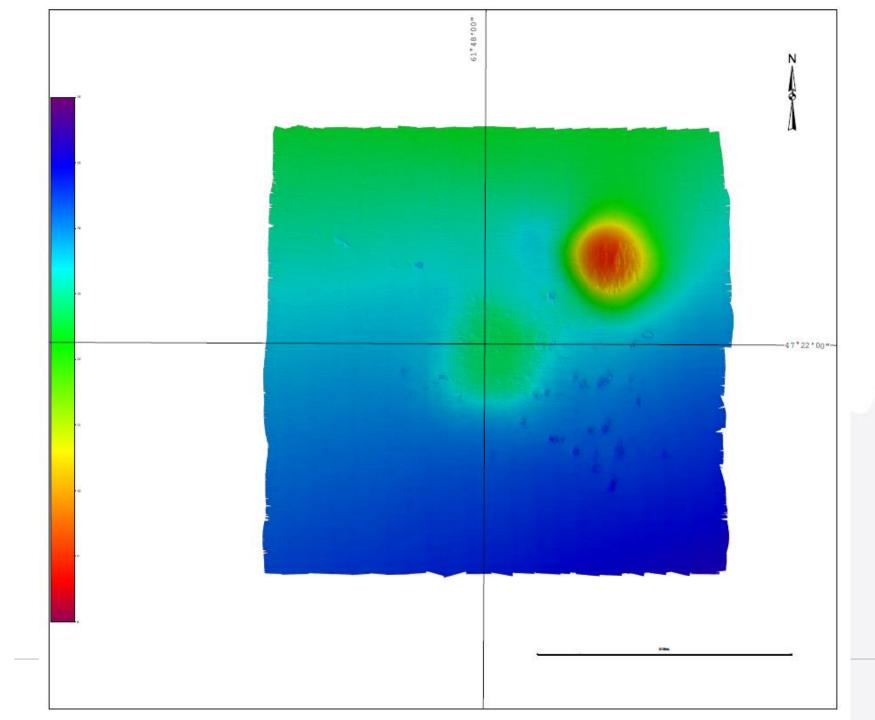




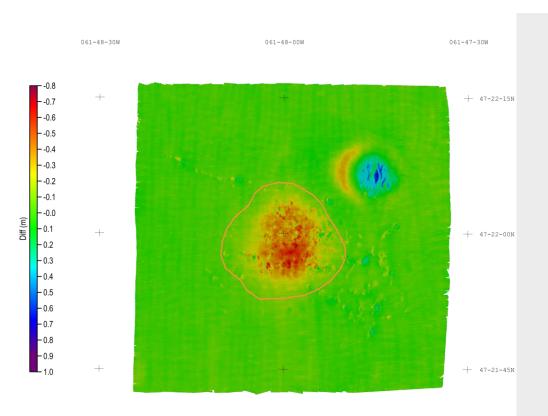
## Hydrographic surveys



Monitoring of disposal at sea sites using hydrographic surveys.

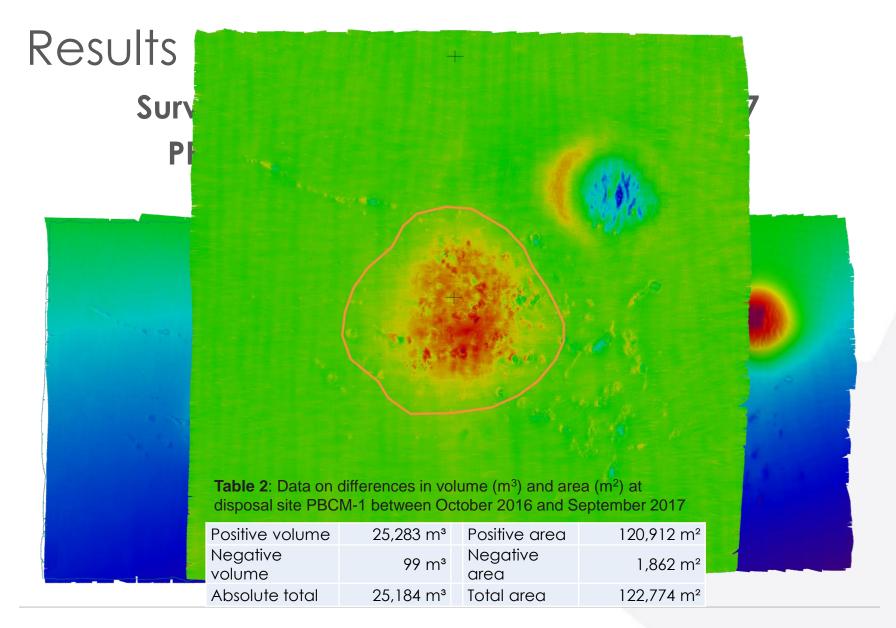


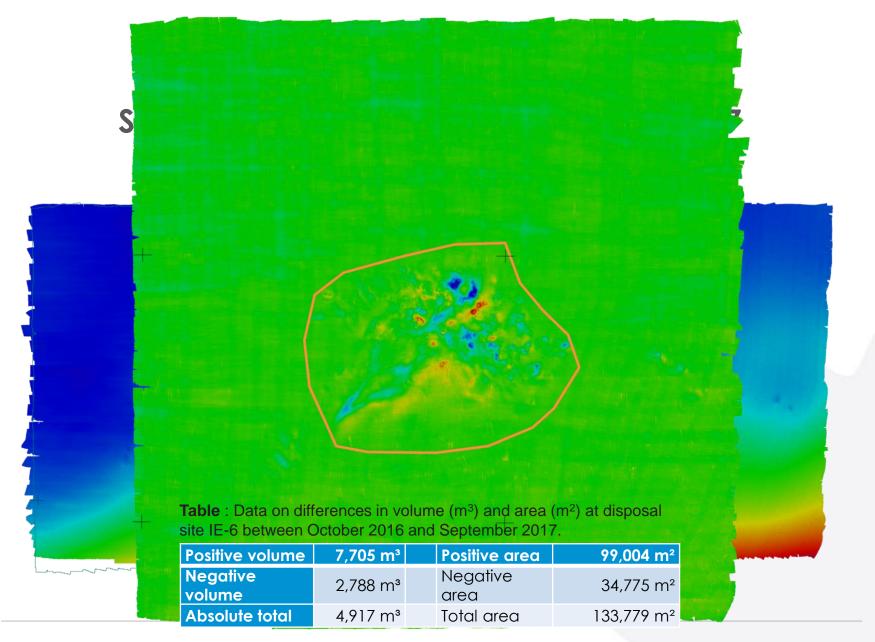
### Bathymetric differential

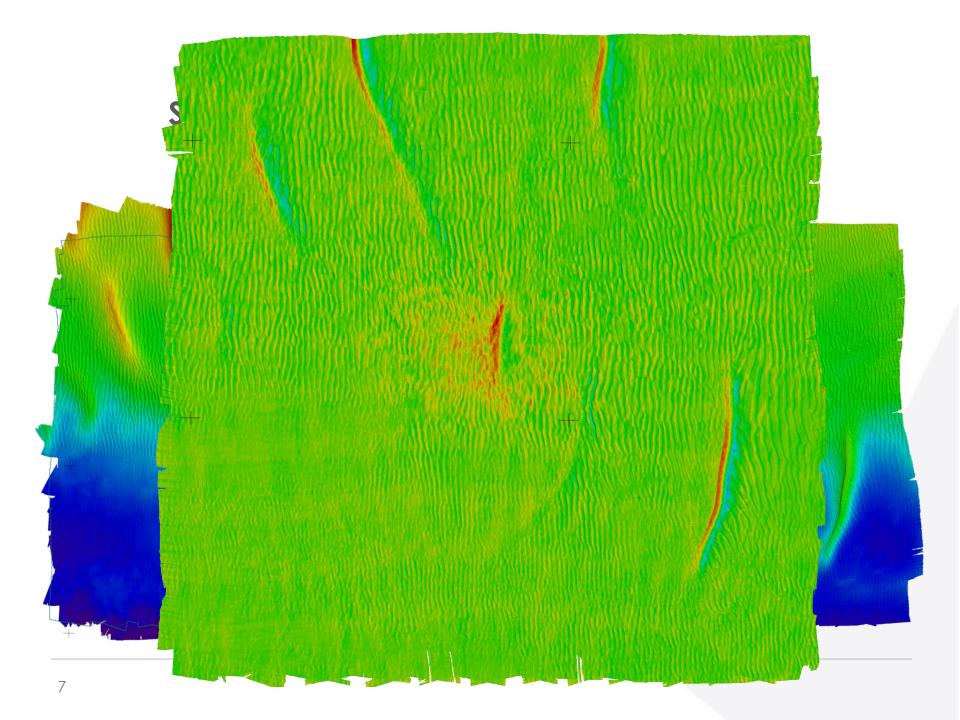


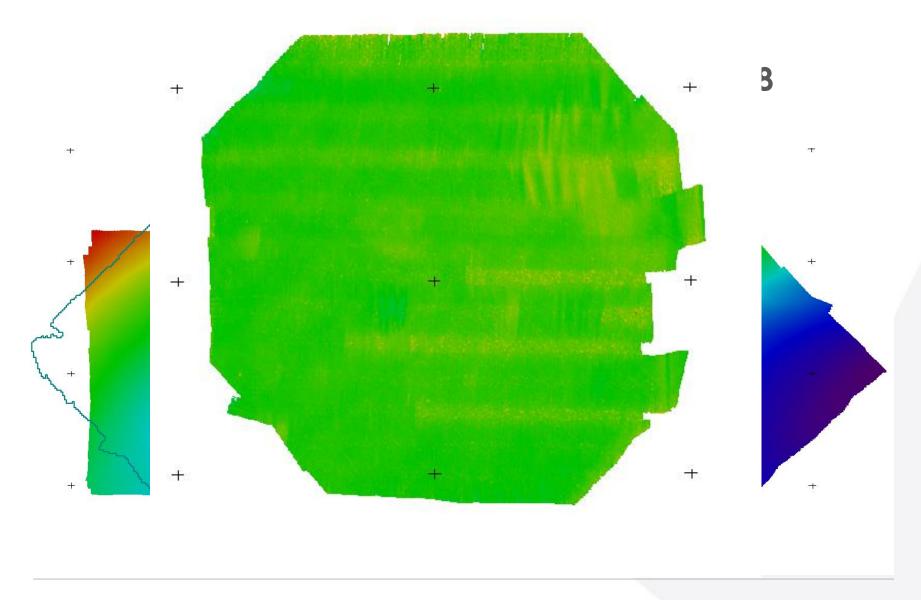
Bathymetric differential at each disposal at sea site:

- to estimate volume of sediments
- to estimate impacted area





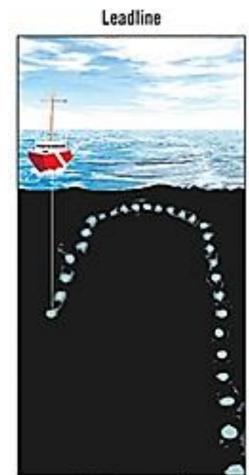




### High-tech method

- Soundings done with a multibeam echosounder
- Area covered = 1 km<sup>2</sup>
- Area centered along coordinates of disposal at sea sites

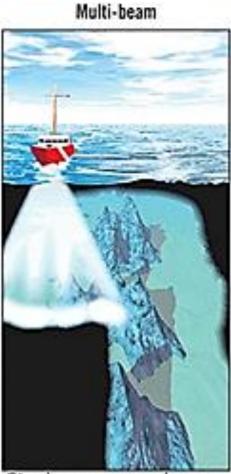
Low-tech method can lead to similar results



Up to 2000 soundings per survey

Single beam

500,000 - 750,000 soundings per survey



Gigabytes-to-terabytes of soundings per survey © Modified from NOAA

# Thank you