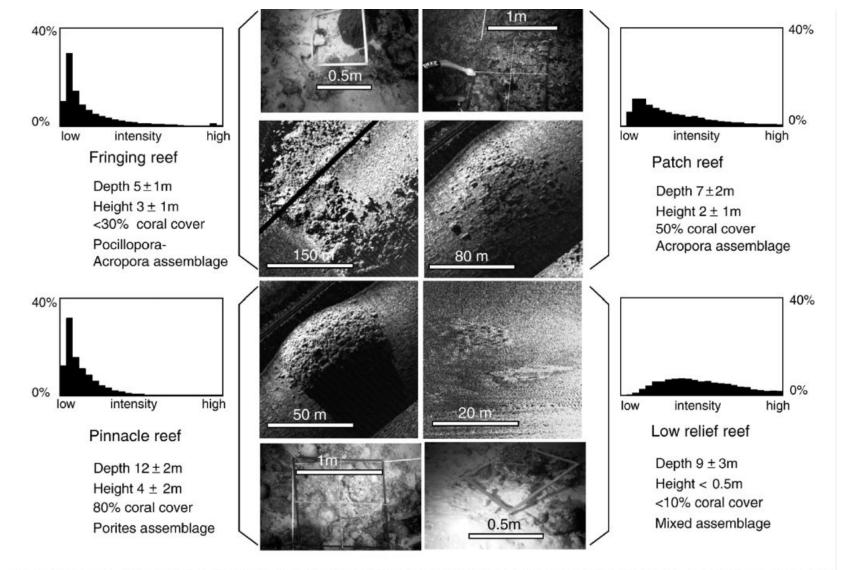
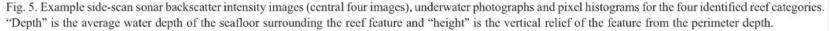
## Improving sidescan sonar data processing capacity for the US academic community Dan Fornari (WHOI) & Ross Parnell-Turner (SIO)

• AUV *Sentry* has excellent sidescan sonar acquisition and it is routinely collected during near-bottom multibeam surveys.

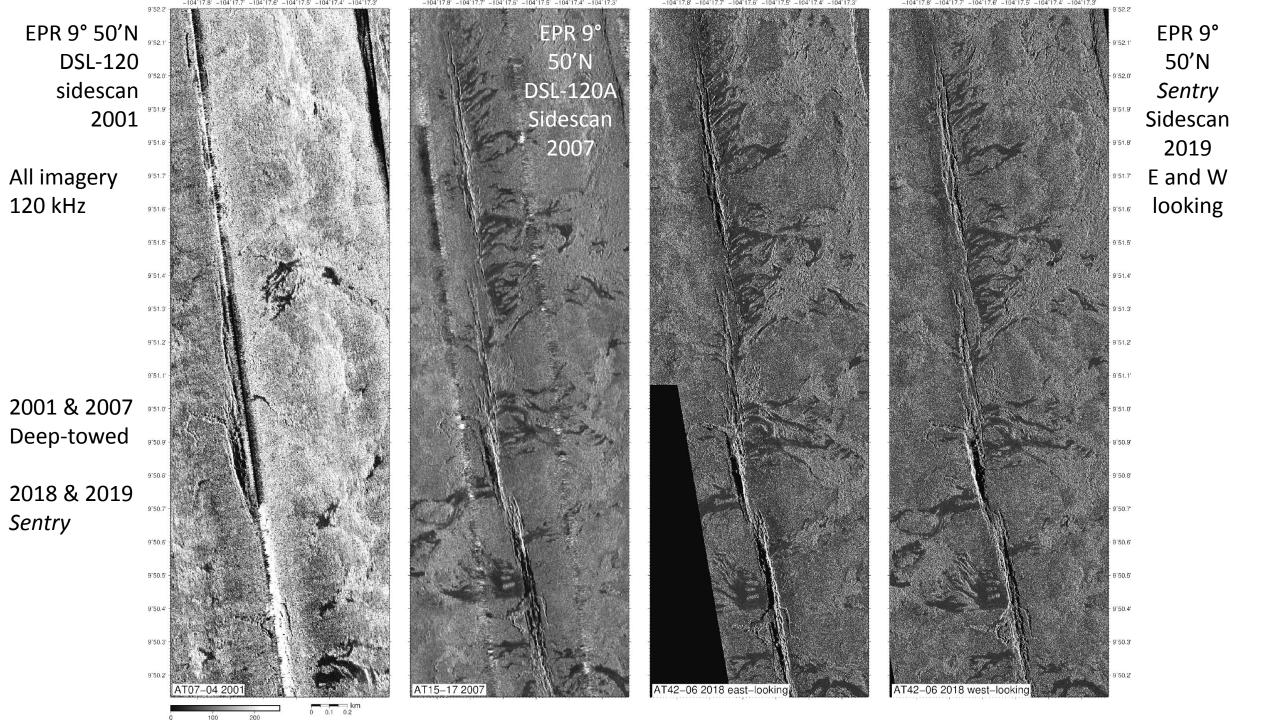
- Sentry multibeam bathymetric data processing pipelines & procedures are excellent and yield important data for both real-time use and post-cruise.
- Sentry sidescan data are normally not fully processed at sea, hence they are archived as digital files that are not easily post-processed without commercially available software (much like MCS data).

• Can Sentry sidescan data be routinely processed post-cruise using a 'facility' or 'expert' approach similar to how the oceanographic community has developed the capacity for ADCP data acquisition and processing at U. Hawaii (J. Hummon et al.) <u>https://currents.soest.hawaii.edu/uhdas\_home/</u>





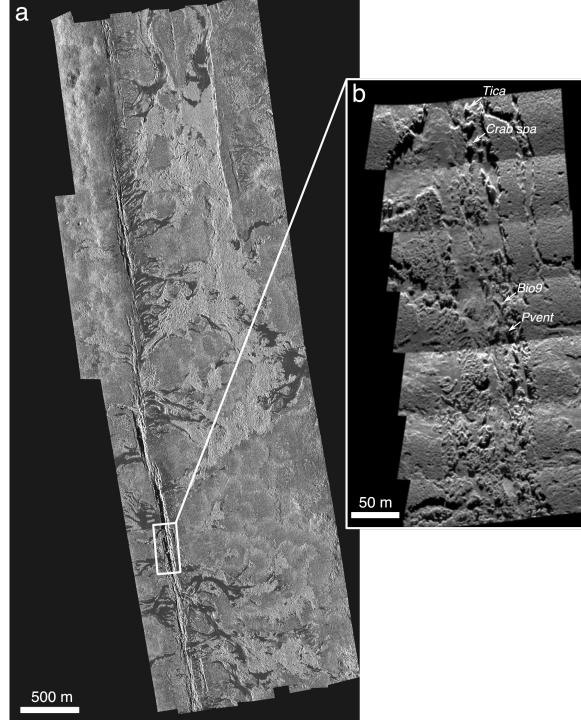
From: Collier and Humber (2007), Time-lapse side-scan sonar imaging of bleached coral reefs: A case study from the Seychelles, *Remote Sensing of Environment* · June 2007DOI: 10.1016/j.rse.2006.11.029



## EPR Sentry Sidescan 2018 Acquisition

a) Low-Frequency 120kHz (left)

b) High-Frequency 410 kHz (right)



## 2019 Sentry Multibeam

Sentry multibeam, 1 m grid

## 2019 Sentry 120kHz Sidescan

Sentry sidescan, 20 cm mosaic