

**Station Name:**

SOTS: Southern Ocean Time Series

**Type of Station (moored / ship-based) and Location  
(geographic region / latitude and longitude coordinates):**

Type: Moored platforms

1. subsurface sediment trap mooring
2. PULSE small surface float mixed layer biogeochemistry mooring
3. SOFS large surface tower meteorological air-sea flux mooring

Location: Subantarctic Zone southwest of Tasmania, 140E, 47S

**Carbon and biogeochemistry measurements at the station  
(indicate the frequency of observations, the year measurements began, and if they are surface / full water column, etc.):**

1. subsurface sediment trap samples at ~1000,2000, 3800 m depth using Mclane conical traps with 13 to 21 samples per year, spaced weekly in summer, monthly in winter. Ongoing with annual turn-around but some gaps since 1997
2. PULSE is in engineering test status, planned but not operational measurements include
  - i) at 30m depth in mixed layer mixed layer depth for T,S, O<sub>2</sub>, fluorescence, transmission, PAR, and 48 water samples per year
  - ii) at 10 m intervals to 150m: T
3. SOFS is in engineering test status, planned but not operational measurements include
  - i) in surface tower – ASIMET meteorological measurements
  - ii) in surface float – T,S,fluorescence, pCO<sub>2</sub>, pO<sub>2</sub>, PAR
  - iii) subsurface – currents, T at 10m intervals to define mixed layer

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OceanSITES

Australian Integrated Marine Observing System Facility 3. [www.imos.org.au](http://www.imos.org.au)**Web-site or links to other information:**[www.imos.org.au](http://www.imos.org.au) Facility 3. Southern Ocean Time Series