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# MWQ and ReefTemp

The trailer not the whole movie...





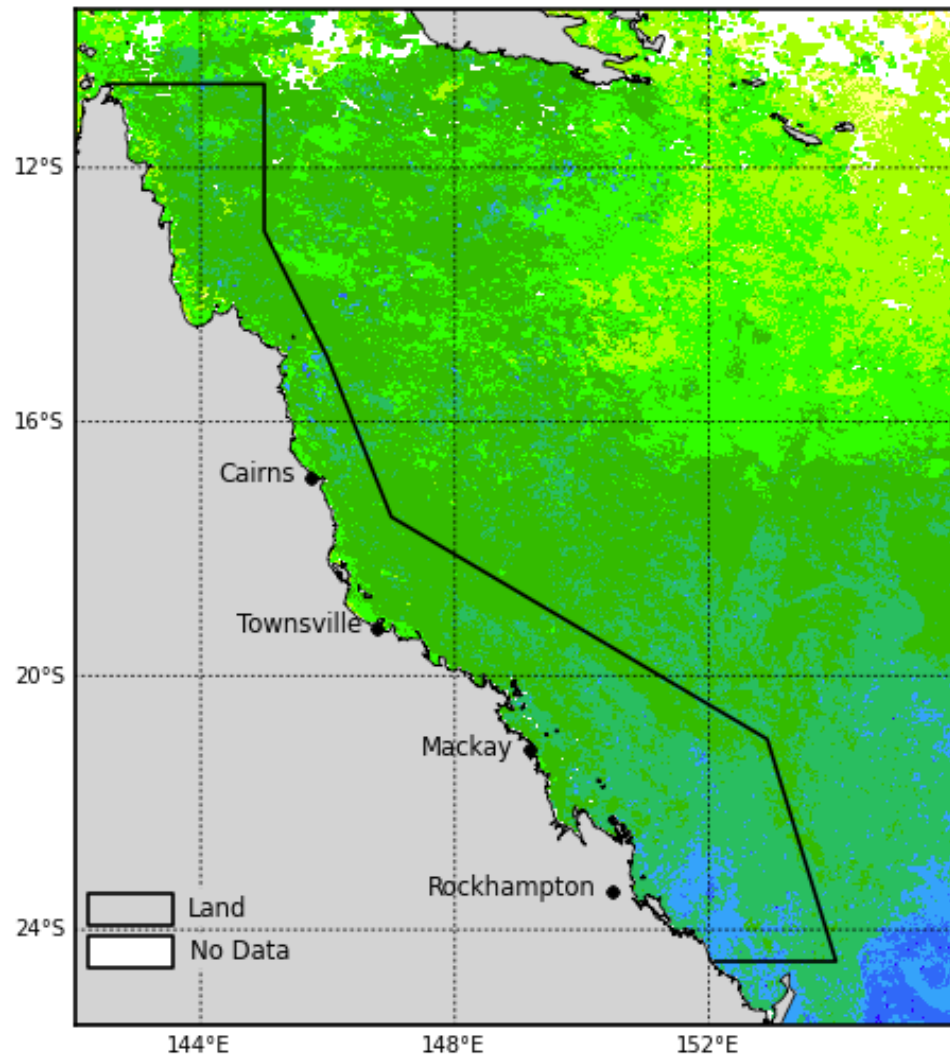
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# Outline

- ReefTemp
- Marine Water Quality
- How to access the data

IMOS 14-day Mosaic: SST  
5 November 2015 GBR region





# ReefTemp

	Legacy ReefTemp (2007)	ReefTemp Next Generation (Current)		
Products	<ul style="list-style-type: none"> <li>• SST</li> <li>• SSTA</li> <li>• DHD</li> <li>• HR</li> </ul>	1-Day IMOS	1-Day Legacy	
		<ul style="list-style-type: none"> <li>• SST</li> <li>• SSTA</li> <li>• DHD</li> <li>• DHD counts</li> </ul>	<ul style="list-style-type: none"> <li>• SSES BIAS</li> <li>• QL</li> <li>• AGE</li> <li>• GAP</li> </ul>	<ul style="list-style-type: none"> <li>• SSTA</li> <li>• DHD</li> <li>• DHD counts</li> </ul>
		14-Day IMOS (mosaic)	14-Day Legacy (mosaic)	
		<ul style="list-style-type: none"> <li>• SST</li> <li>• SSTA</li> <li>• DHD</li> <li>• DHD counts</li> </ul>	<ul style="list-style-type: none"> <li>• SST</li> <li>• SSTA</li> <li>• DHD</li> <li>• DHD counts</li> </ul>	<ul style="list-style-type: none"> <li>• SST</li> <li>• SSTA</li> <li>• DHD</li> <li>• DHD counts</li> </ul>



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# ReefTemp

## Degree-Heating Days (degrees C-days)

- Accumulate where SST anomalies are greater than  $0^{\circ}$  C for the period 1 December to 31 March
- DHD indicates magnitude & duration of thermal stress

E.g. 24 DHD = 24 days where  $SSTA = 1^{\circ}$  C



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# Marine Water Quality

The MWQ products are measures of:

- Chlorophyll-a concentration (CHL)
- Suspended sediment concentration (Non-Algal Particulates – NAP)
- Coloured dissolved organic matter concentration (CDOM)
- Diffuse attenuation coefficient ( $K_d$ )



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# Data Access

Marine Water Quality Dashboard:

<http://www.bom.gov.au/marinewaterquality/>

THREDDS:

<http://ereeftds.bom.gov.au/ereefs/tds/catalog/ereef/mwq/catalog.html>

ERDDAP: <http://ereeferd.bom.gov.au/ereefs/erddap/index.html>



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# Thank you...

eReefs is a collaboration between:



**GREAT BARRIER REEF**  
*foundation*



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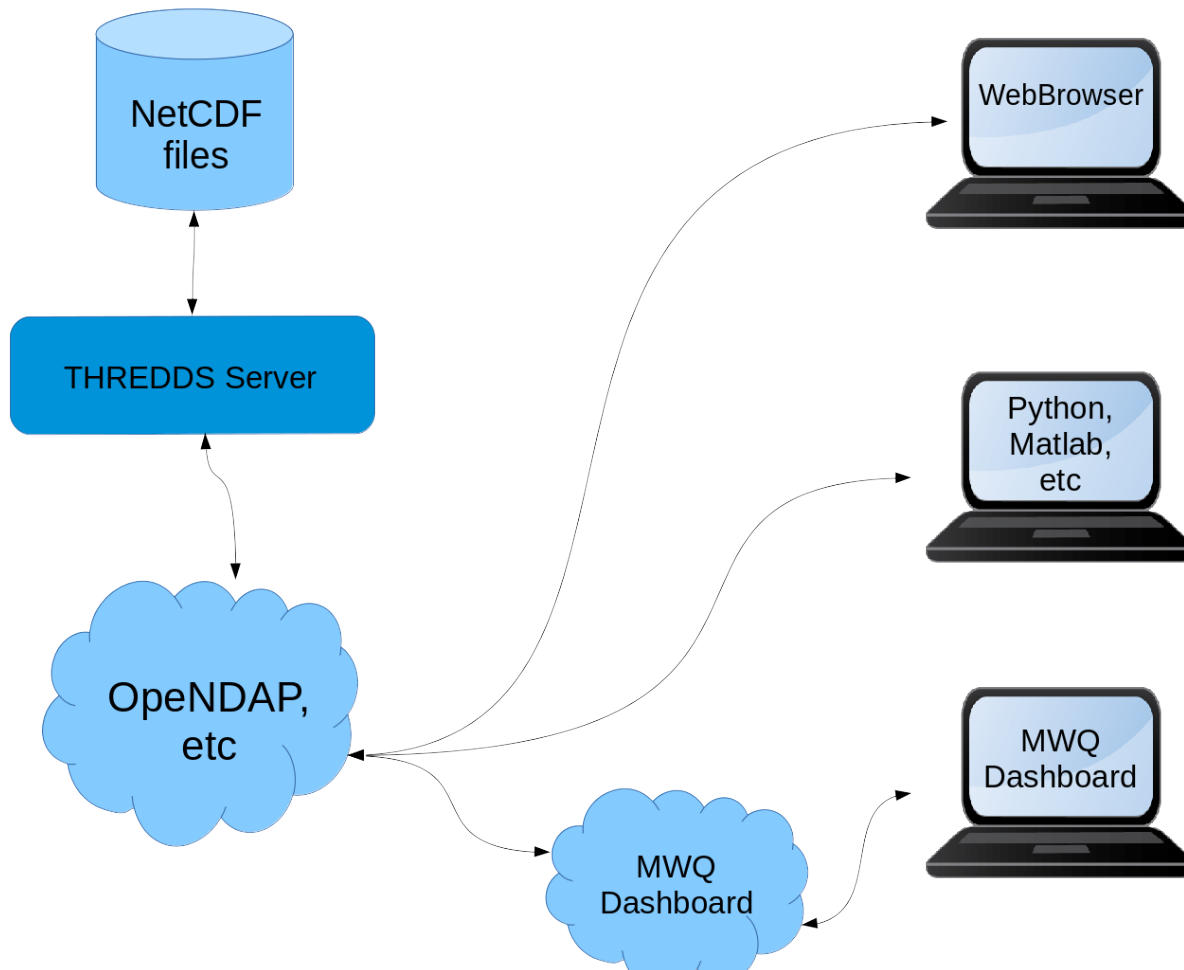
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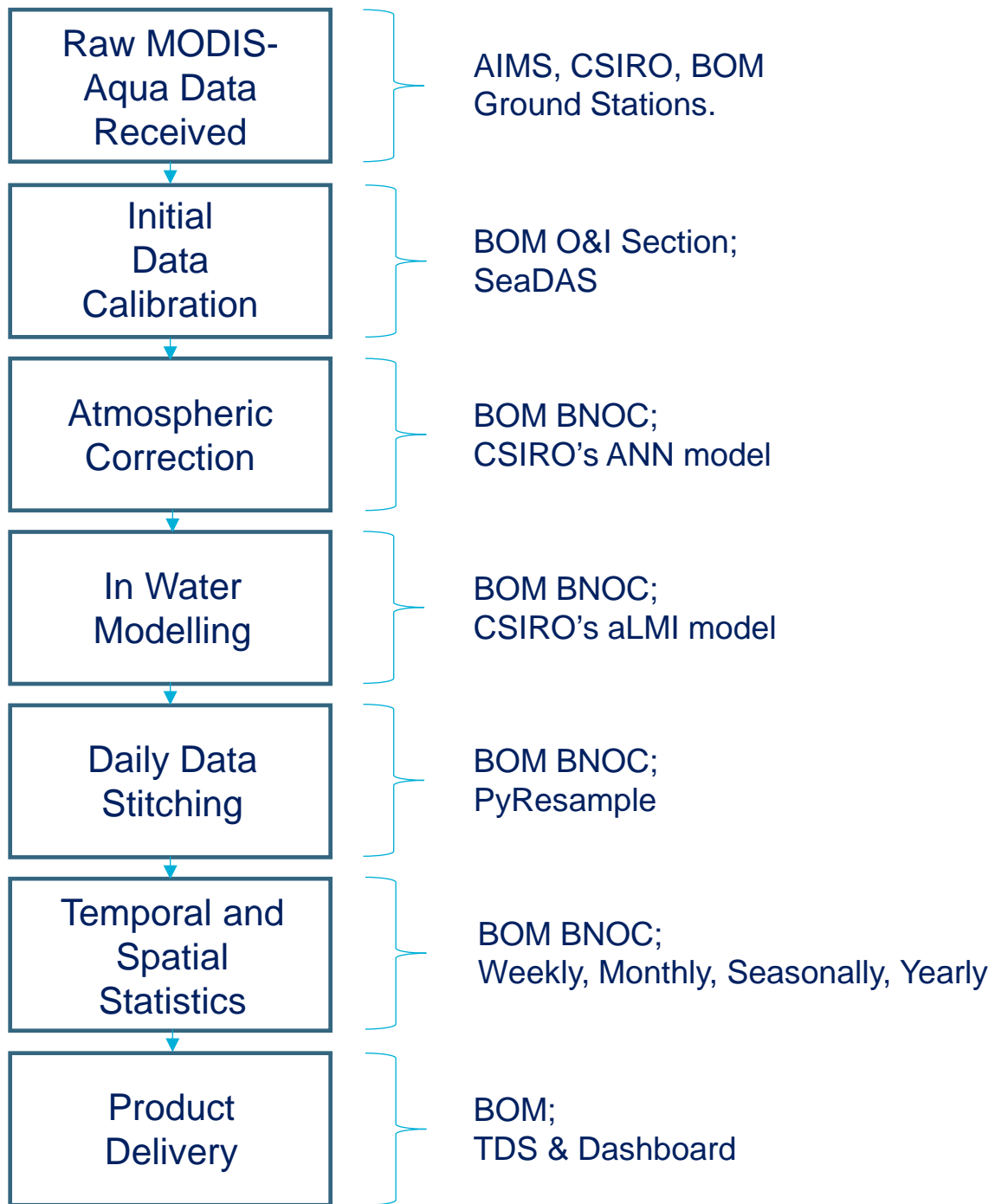
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# Data Access







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