



Marine Science in WA 2010 Show-&-Tell

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**Newsflash title: Constraints on the primary
production of the Kimberley shelf**



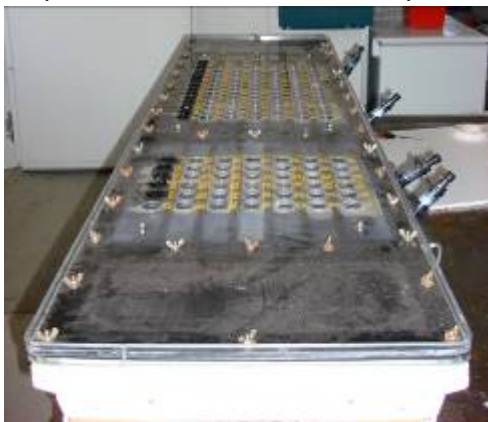
Kimberley shelf primary production

Cruise along the Kimberley coast from April 13 to May 5, 2010 aboard Southern Surveyor

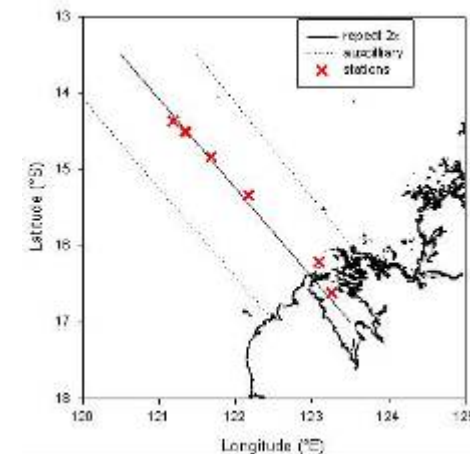


"The Gold Standard"

The ^{14}C uptake method (Parsons et al 1984).



- 3 onshore/offshore transects situated near King Sound
- investigate interaction between the river outflow and tides on regional oceanography.
- two time scales - single tidal cycle & spring-neap cycle



Photosynthesis vs Irradiance short incubation method for determination of gross primary production

- Provide data to aid in development and validation of numerical and conceptual biogeochemical models
- May aid in the development of remote sensing algorithms and optical based biological sensors which in future could be used to fill in time series gaps
- Increase further understanding of this complex shelf/coastal biogeochemical system