

OceanStar

Marine Environmental Monitoring System

www.fastwave.com.au

OceanStar

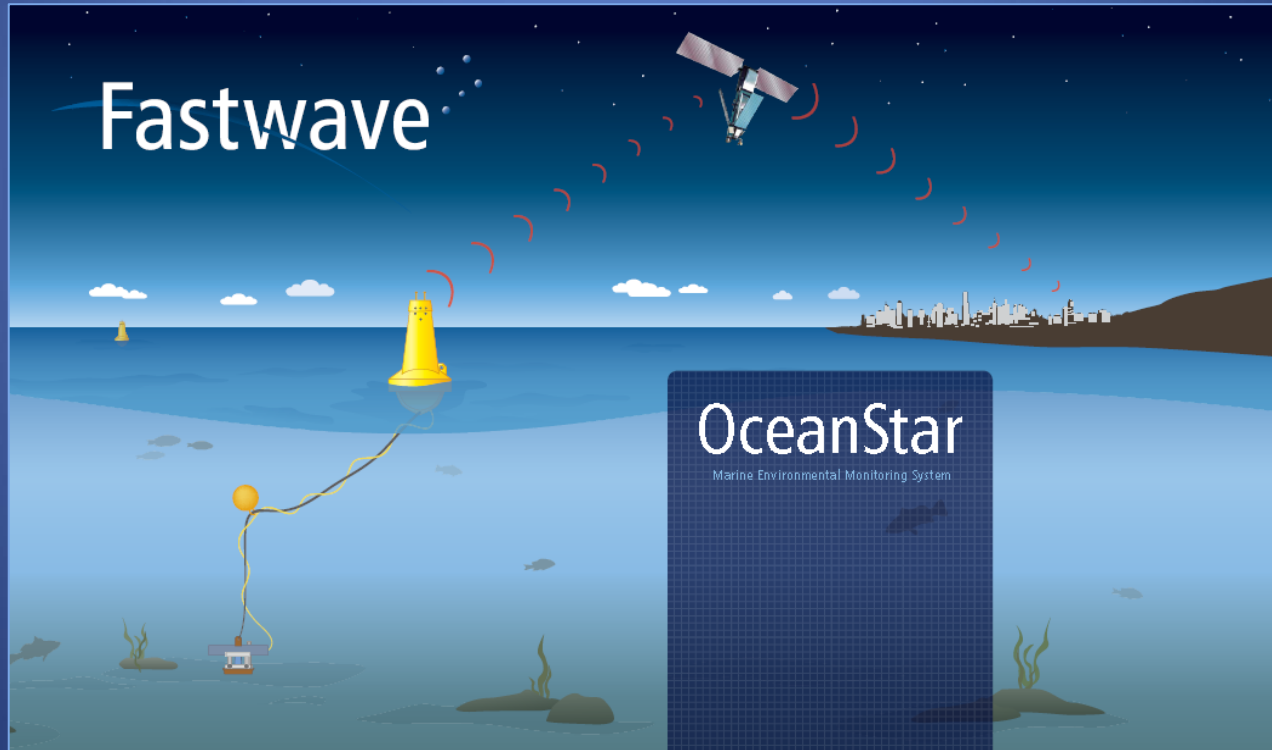
Marine Environmental Monitoring System

August 2010



Introduction

- OceanStar
 - is a fully integrated data acquisition system for real-time monitoring of sub-sea sensors and instrumentation

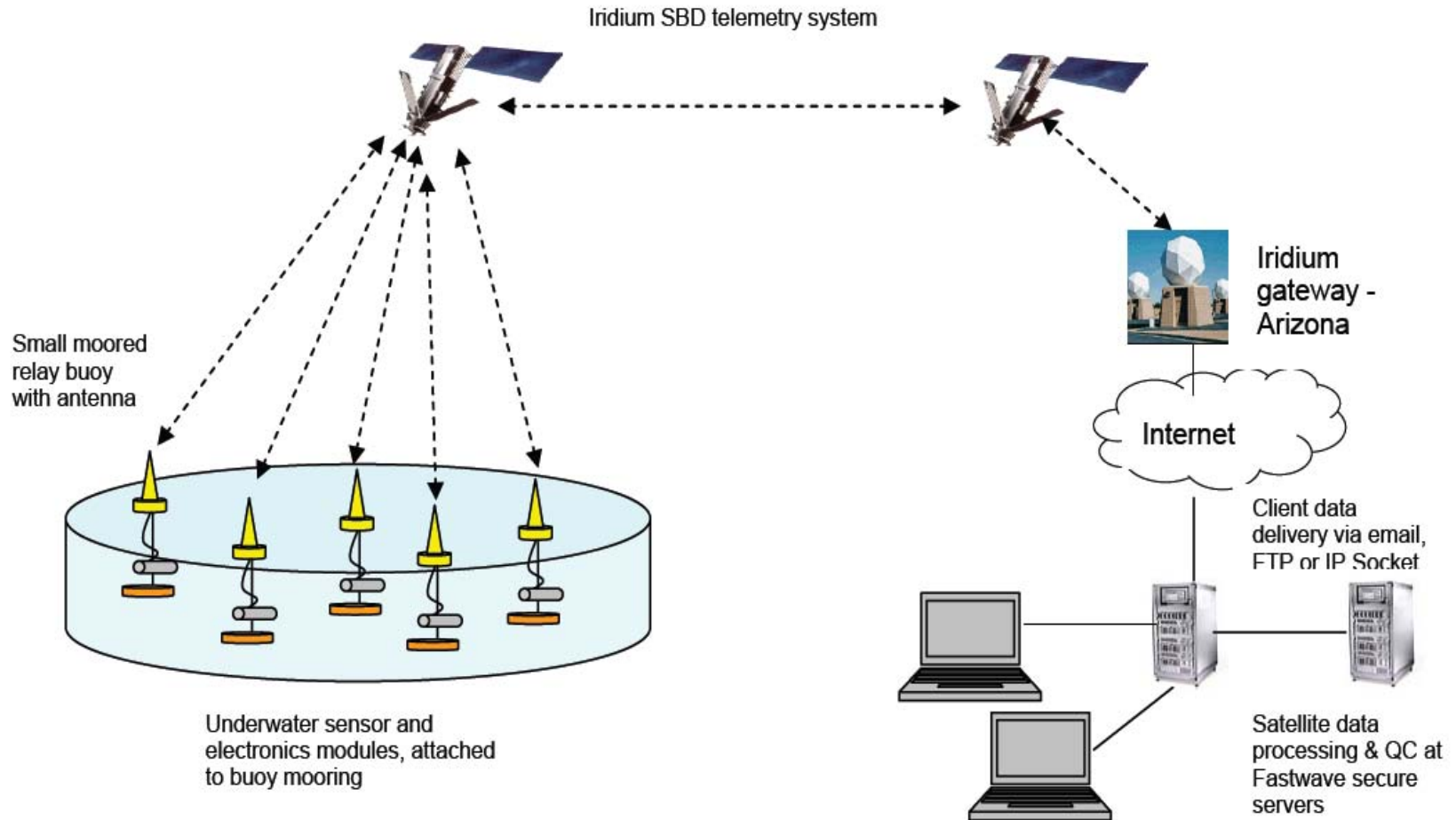


Background

- Designed and manufactured in Perth by Fastwave
 - Fastwave established 2001
 - Specialises in global remote monitoring, control and tracking solutions
 - Iridium Satellite Integrator
 - Clients include Chevron, Woodside, Rio Tinto, DSTO, CSIRO Bureau of Met etc

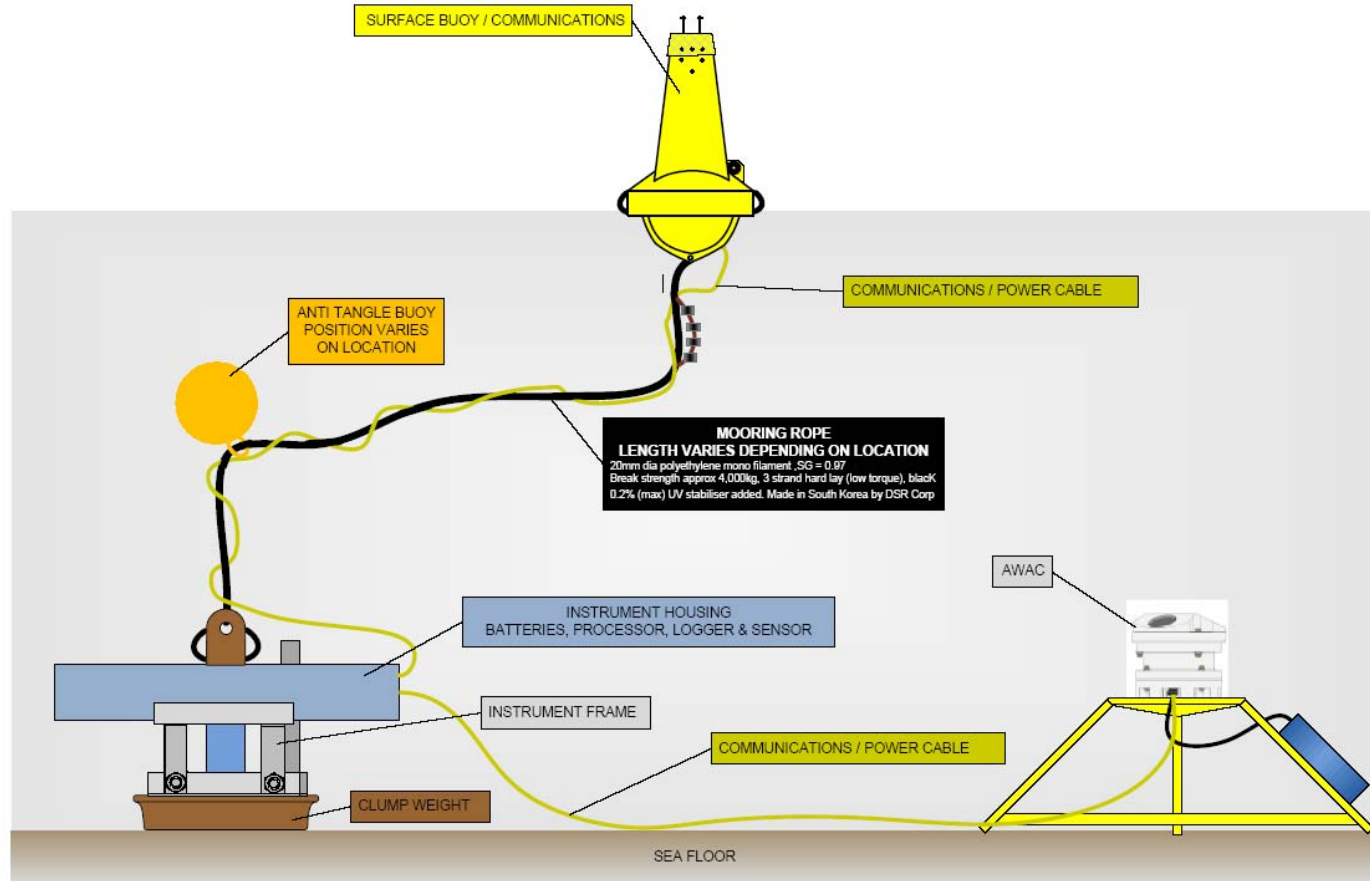


OceanStar Integrated System Configuration



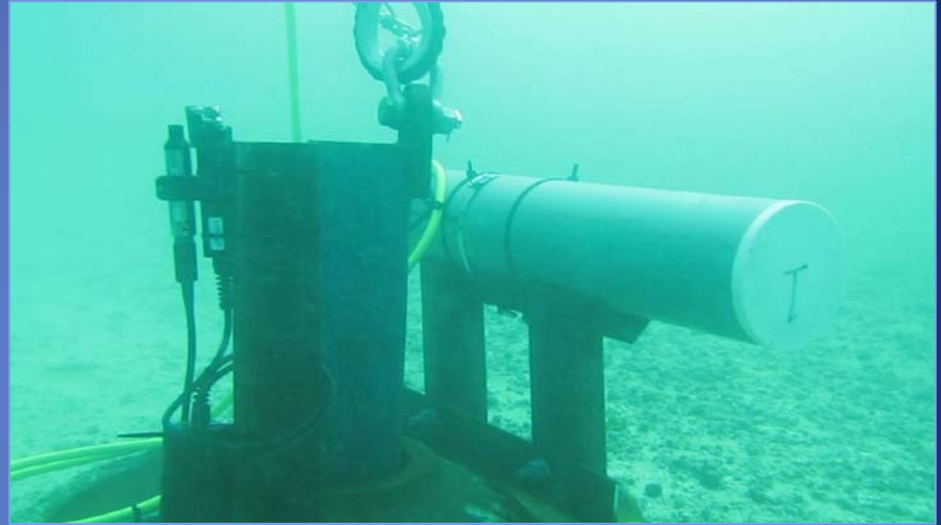
OceanStar System Subsea Configuration

(not to scale)



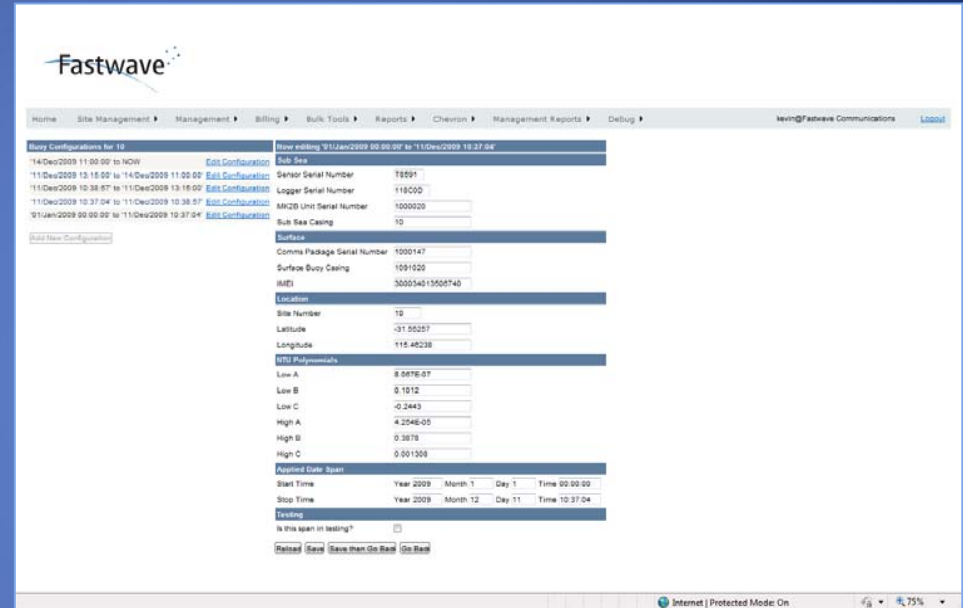
OceanStar Capabilities

- In-situ data acquisition from sub-sea sensors
 - System can be integrated with wide range of sensors & instruments
 - Fully autonomous sensor sampling, data logging, transmission and event alerting
 - Up to 6 months endurance @ 30 minute reporting interval before re-charging



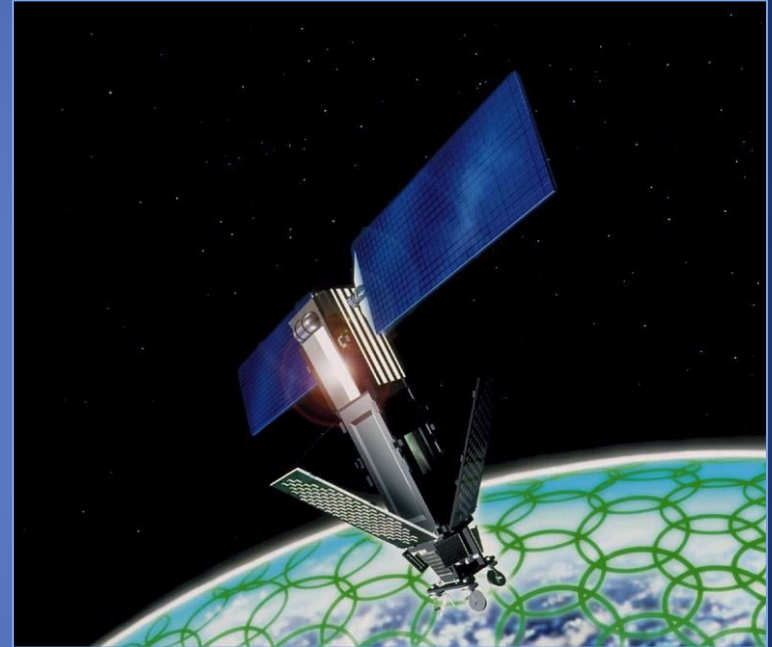
OceanStar Capabilities

- End-to-end system, from sensor to desktop
 - Secure, on-line data delivery within seconds
 - Email, FTP and IP socket delivery options
 - Web interface customisable for client application



OceanStar Capabilities

- Global coverage
 - System communicates via highly reliable & secure Iridium Satellite Short Burst Data telemetry system
 - Overcomes geographic limitations of radio and cellular systems
 - 99.97% data delivery success



OceanStar Applications

- Marine Environmental Compliance Monitoring
- Dredge plume monitoring
- Outfall plume monitoring
- Marine mammal monitoring
- Oil spill & pollution monitoring



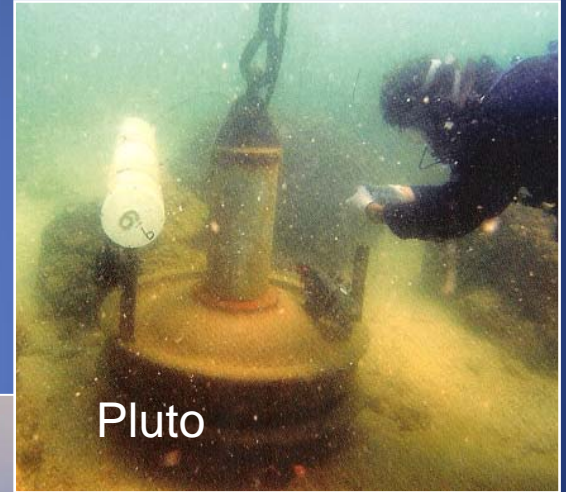
OceanStar Applications

- Oceanographic data gathering
- Maritime surveillance
- Aquaculture
- Subsea infrastructure monitoring



OceanStar Reliability

- OceanStar is a field proven
 - deployed at over 40 sites since 2007
 - proven performance in cyclone prone areas
- System users include:
 - Woodside – Pluto Project
 - Chevron – Gorgon Project



OceanStar Benefits

- Real time data enhances analytical, predictive and compliance reporting capability
- Eliminates significant cost & OHS issues involved with manual data retrieval
- System configuration reduces vulnerability to theft, vandalism, collision and extreme weather
- Use of compact, lightweight relay buoys reduces cost and complexity of deployment



OceanStar Benefits

- Re-deployable system for multiple projects
- Flexible system design enables use in wide variety of applications
- System designed to minimise bio-fouling and diver maintenance
- Turn-key solution, Fastwave is single service provider with local technical support team



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Thank You

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