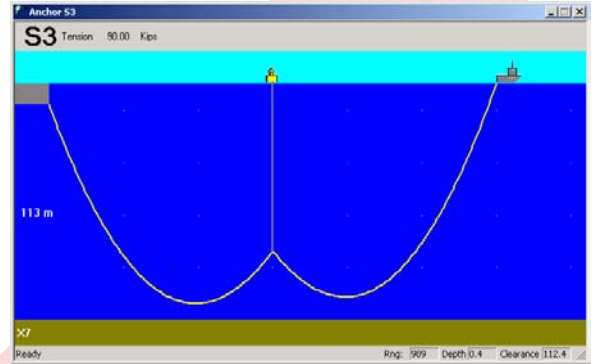


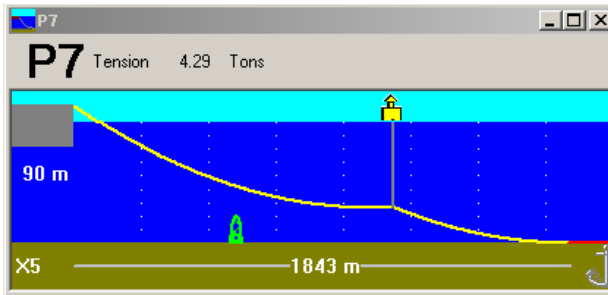
Real Time Catenary Anchor Monitoring System

- Ability to Monitor up to 16 Anchors.
- Live input of Anchor Tensions.
- Barge position from independent GPS unit or from Navigation Computer.
- Barge heading from independent Heading sensor or from Navigation Computer.

Anchor Deployment Monitoring



Obstruction Monitoring



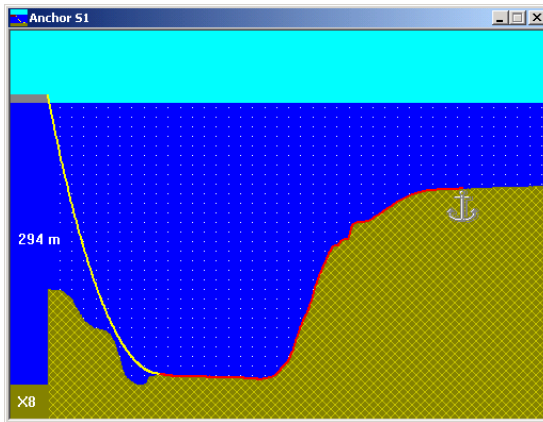
Monitoring anchor cable above a pipeline or wellhead

Anchor Pattern Monitoring

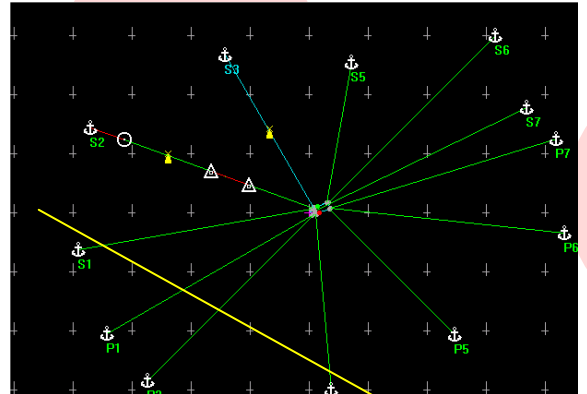
Plan view of Anchor Pattern in relation to pipelines and well heads. Includes the ability to enter safety zones around seabed features.

Seabed Monitoring

Water depth read from echo sounder, navigation computer or from DTM model of seabed.

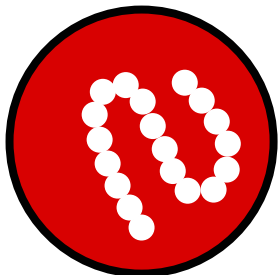


System using DTM Model of seabed



Plan view of Anchor Pattern showing, Anchor Positions, Buoy Positions and Touchdown Points.

The system can operate in Metric and Imperial Units or a combination of the two.



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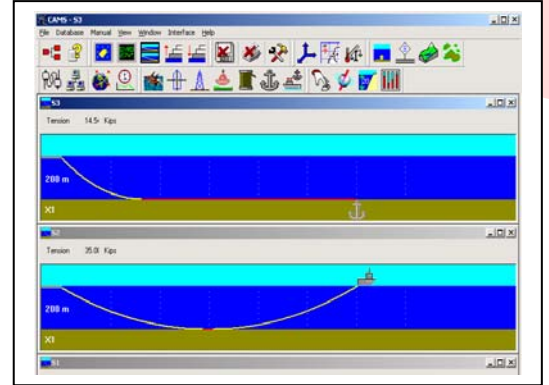
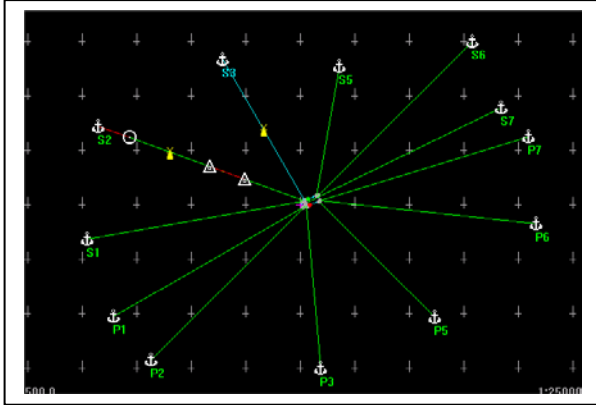
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CAMS

Catenary Anchor Monitoring System



Dual Display

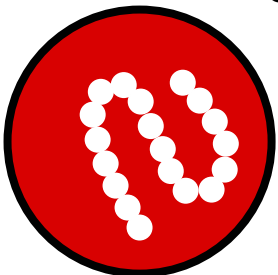
Navigation Sensors including GPS, Gyro and Echo Sounder

CAMS PC

Data Logging to Hard Disc

Anchor Tensions

Analogue Unit for reading Anchor Tensions. Up to 16 Anchors can be simultaneously read into the program. The analogue units use RS422 to communicate with the PC so can be situated remotely from the CAMS computer system.



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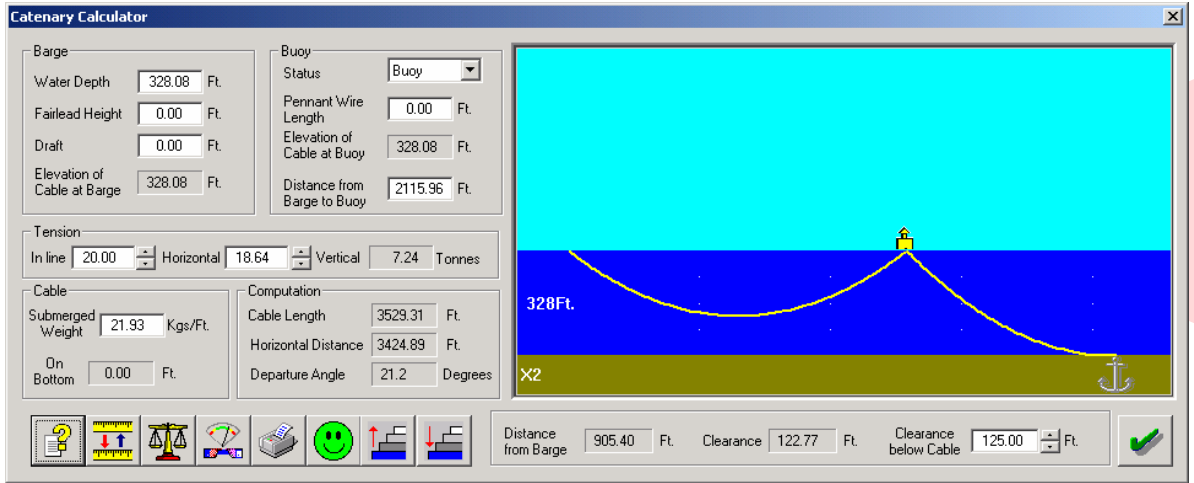


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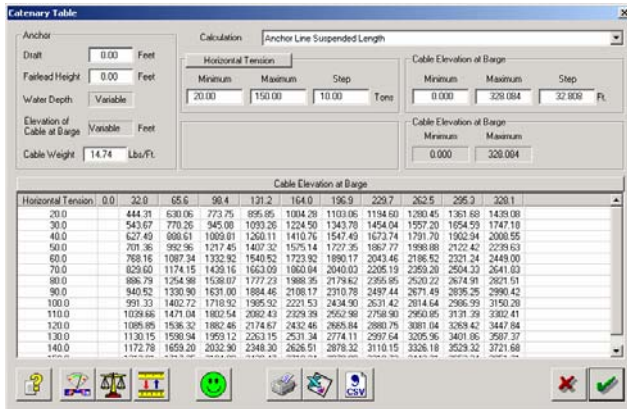
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Catenary



Catenary Calculation

- Simple Catenary
- Buoy on Line
- Tug mode
- Variable water depth
- Pennant wire length
- Adjustable Clearance
- Graphical Display
- Cursor Measurement
- Vertical Scale multiplier



Catenary Tables

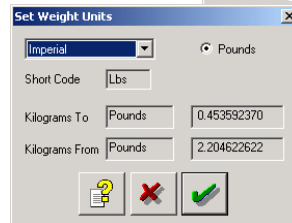
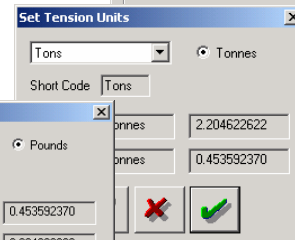
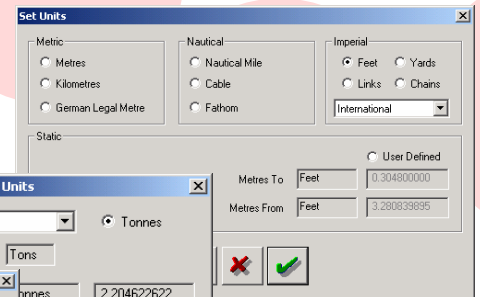
- Tension v Length
- Cable Clearance
- Export to EXCEL or Text File
- Send results to a Printer

Units of Length

- Metric
- Nautical
- Imperial
- User Defined

Weight per Unit Length

- Kilograms
- Pounds



Tension

- Tonnes
- KIPS

Catenary is part of Surveyor for Windows and CAMS (Catenary Anchor Monitoring System).

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