

SeisADCP

SeisADCP - Real-time surface current data in support of seismic exploration - helps prevent loss of survey cover and damage of equipment during deployment, stacking and recovery caused by:

- rapid changes in current velocities,
- long-term changes in current velocities, and
- current velocity shear with depth.

Strong, complex and highly variable surface currents are features of our world's oceans - ask any seismic vessel crew. Such currents frequently disrupt seismic operations in many ways, causing:

- gaps in the seismic data along survey lines, leading to increased infill requirements;
- equipment damage during deployment and recovery;
- tangling of streamers when they are stacked for tight turns or maintenance; and
- incorrect touchdown positions and possible equipment damage during cable laying for seabed seismic surveys.

All these disruptions considerably increase survey costs, costs that can be significantly reduced by a clear representation of the forces that are acting on the equipment at the time. It is here that Fugro can aid the seismic operator by providing clear, real-time displays of water currents in the upper water column.



A Fugro SeisADCP installation

SeisADCP

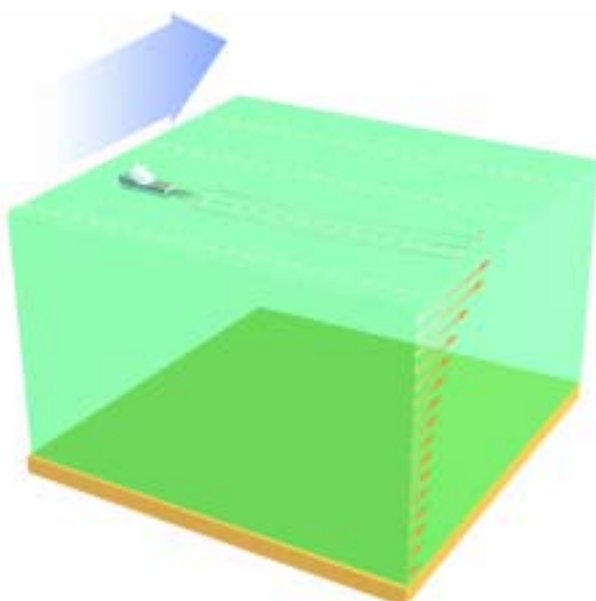
Fugro' SeisADCP is a software package developed specifically for use with Acoustic Doppler Current Profiler (ADCP) systems, commonly installed on many of today's seismic vessels. Fugro can also supply the complete, integrated package comprising the ADCP, associated hardware, PC and SeisADCP software, as well as installation, maintenance and routine quality checks of the data recorded.

The SeisADCP package manages the operation of the ADCP system and displays surface current data in real-time as they are gathered. The displays are designed to allow seismic navigators to identify the oceanographic features that may affect operations, such as short-term and long-term velocity changes and velocity shear with depth.

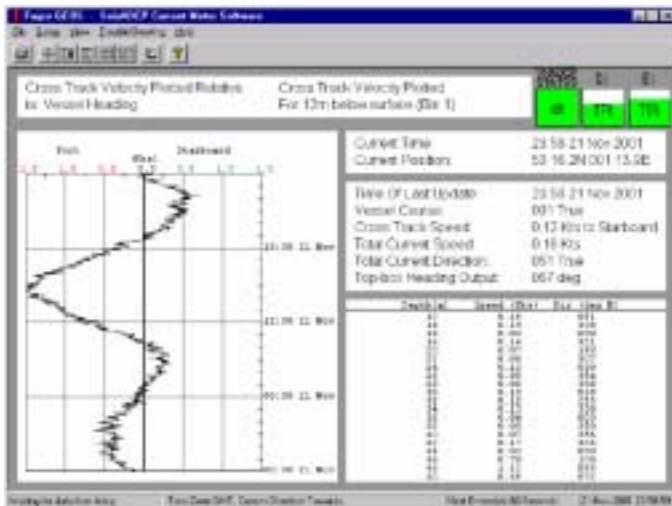
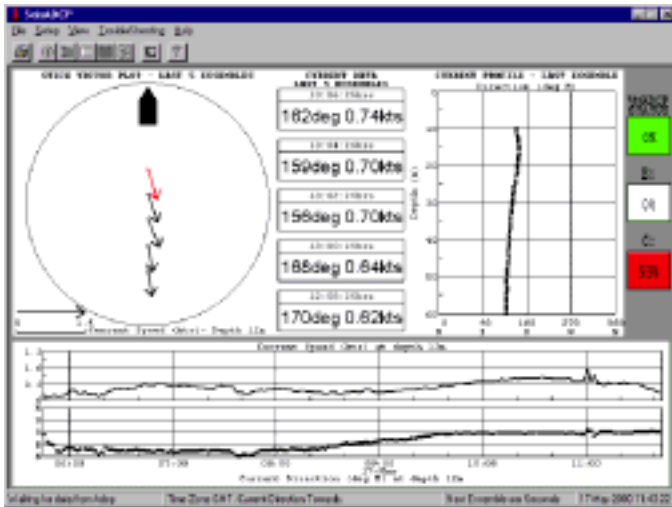
SeisADCP Data Displays:

SeisADCP has several custom-designed displays. These include:

- combination display showing a graphical



Strong currents can disrupt seismic operations



SeisADCP screen displays

representation of current speed and direction at a selected depth for the last five data points, a current direction profile for the last data point, and user-defined time series plots for two of a wide range of parameters;

- cross-current display showing cross-track current data at a selected depth for the last 24-hours together with other useful summary data;
- current profile display showing graphical profiles of current speed and direction, and their tabulated values, for the last data point;
- time series display of current speed and direction for

- four selected depth cells; and
- vessel pitch, roll, heading and water temperature time series.

SeisADCP Data Management:

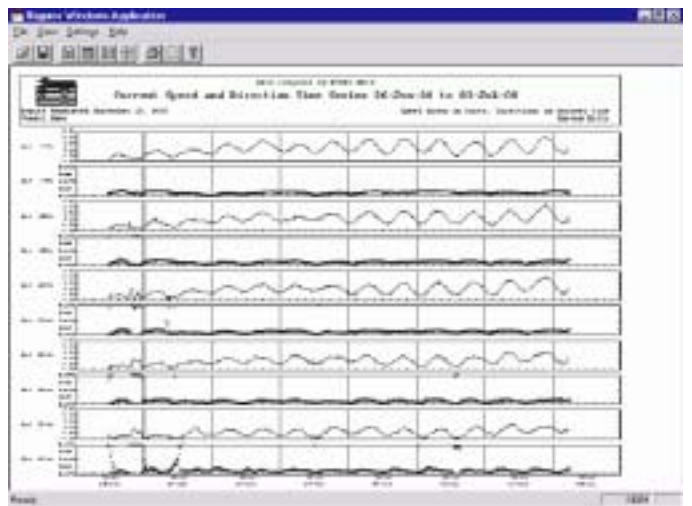
All data are logged to the operating PC. Data files can also be transferred easily to Fugro' FTP site for routine quality-control checks and further post-processing if required.

SeisADCP Plotting Facilities:

Data can be plotted directly from the real-time displays. In addition, using the Presenter program accessible through SeisADCP, all available historical data can be plotted for planning of operations. Plots available include:

- time series of current speed and direction;
- time series of vessel pitch, roll, heading and temperature;
- individual data point current profiles;
- current data scatter plot and occurrence table.

Data can also be exported in ASCII-format into Microsoft Excel or Word for operations reports.



Presenter displays

For more information on the services and benefits that Fugro can provide please contact us at an office below.

Fugro GEOS Sdn Bhd
11th Floor
Wisma Genting
28, Jalan Sultan Ismail
50250 Kuala Lumpur
Malaysia

Fugro GEOS Pte Ltd
Loyang Offshore
Supply Base
125 SOPS Avenue
Loyang Crescent
Box No 5187
Singapore 508988

Fugro GEOS
PO Box 43088
Abu Dhabi
UAE

Fugro GEOS Ltd
Fugro House
Hithercroft Road
Wallingford
Oxfordshire
OX10 9RB
UK

Fugro GEOS Inc
PO Box 740010
6100 Hillcroft (77081)
Houston
Texas 77274
USA

Fugro OCEANOR AS
Pir-Senteret
N-7462
Trondheim
Norway

Fugro OCEANOR AS
Luramyveien 29
N-4313
Sandnes
Norway

Tel: +60 3 2164 6210
Fax: +60 3 2162 9242
meto@geos.com.my

Tel: +65 6543 4404
Fax: +65 6543 4454
singapore@geos.com

Tel: +971 2 55 45 101
Fax: +971 2 55 45 059
gulfmet@geos.com

Tel: +44 (0) 870 4021 500
Fax: +44 (0) 870 4021 599
uk@geos.com

Tel: +1 713 346 3600
Fax: +1 713 346 3605
usa@geos.com

Tel: +47 7354 5200
Fax: +47 7354 5201
oceanor@oceanor.com

Tel: +47 5163 4330
Fax: +47 5163 4331
mail@oceanor.com