



Dear reader,

By means of this newsletter we would like to inform you of our latest developments, projects and products.

As you may or may not know recent times have seen some changes in our company, despite this our endless motivation for innovation and customer support has never seized.

Our new GeoSonic survey system is upgraded with a new rugged housing significantly reducing the weight of the system itself. Alongside our Viking software is a perpetual continuity of updates and new features.

In the background we are working on a number of new and revolutionary products on which we like keep you posted.

We always welcome curious visitors to drop by for an update, a cup of tea or coffee, a glass of wine or a beer or even a home made fried egg!

See you soon!

Best regards,

Julian van der Vaart
Managing Director

Viking Developments

In the past few years Viking has achieved a solid installation base in all relevant maritime sectors. Viking Dredge is now operating on virtually all types of dredging vessels and machines. Among these are numerous excavators, grab dredgers, cutter dredgers, trailing suction hopper dredgers, and various specialized dredging machines. Both Viking Navigation and Viking Survey have found their way to a large user base of various offshore vessels, maritime construction vessels and hydrographic survey vessels.

Viking has received many updates and a wide variety of new features. Many of these features are inspired by direct user feedback and by specific requests for specialized solutions.

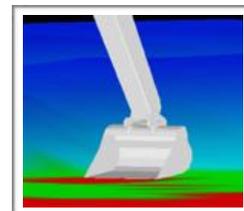
- **Tug Management System**

The anchor handling and networking features of Viking are further developed to become a full Tug Management System now supporting multiple anchoring vessels and multiple tugs all simultaneously in a mesh network.



- **Full Grab Dredger Support**

In a conjoined installation of our GeoDredge system, full support for a grab dredge was built into Viking Dredge. Using high resolution digital encoders and inclinometers Viking can visualize and position a full grab dredge with centimetre accuracy, including the opening and closing of the grab itself.

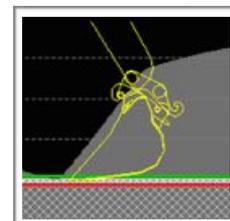
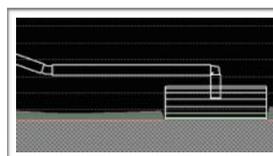
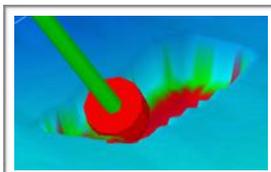


- **Full 3D TIN support**

With an increase of usage of Viking on land based operations support for TIN (Triangulated Irregular Network) has been added.

- **Custom 3D Dredging Equipment**

Based on various requests from our customers we integrated the support for custom dredging tools and equipment. It is now possible to import 3D CAD models of a dredging tool which will be visualised and positioned in real time by our Viking Software.



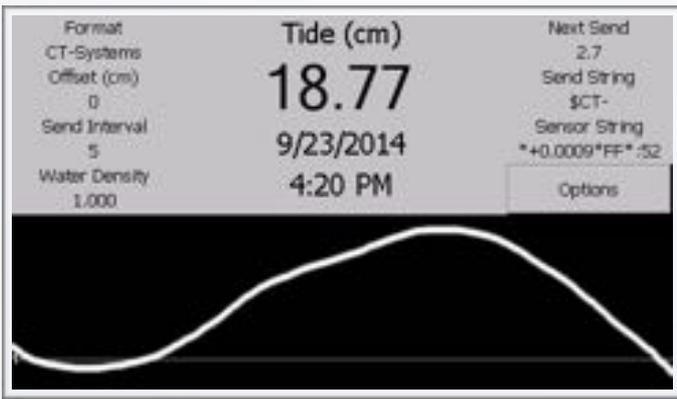


Renewed Tide Gauge

Our CT-Tide unit has received a full upgrade, the new version has a large touchscreen colour LCD and uses the latest technology from Satel UHF transceivers. Accompanying this new release we have developed new software for remote programming, data analysis and remote logging.

On the large colour LCD all settings can be viewed and changed. The actual tide data will also be displayed along with a trace of the last 24 hours.

The renewed unit still utilises the same ultra robust compact Peli Case housing and waterproof Lemo connectors. For added accuracy the new sensor now has an inline purge valve.



In the coming months we will be exhibiting at the Offshore Energy in Amsterdam, and the Hydro14 in Aberdeen.

You are more than welcome to come and visit us!

OFFSHORE ENERGY 14 Visit us at booth **10.054**
28 & 29 OCTOBER 2014 | AMSTERDAM

Hydro14 | energy & enterprise
 28-30th October 2014 | Aberdeen
www.hydro14.org.uk | hydro14@ths.org.uk

Recent Projects

In recent times we have taken part in many projects all around the globe. There are simply too many to mention, but a few of the more prominent and interesting are shown below.

- **Subsea Cable Repair Irish Sea**

An elaborate installation of a full Viking Tug Management system was carried out on the barge Stemat 89 with the M/V Tessa W and M/V Torsten acting as anchor handling tugs. We interfaced two EchoScope units to the Viking systems on board of the Stemat 89 for real time positioning of the vessels and tugs.



- **First Cutter Suction Dredger for Turkey**

In direct collaboration with our partner Gozuyilmaz LTD. in Turkey we supplied a full Viking Dredge system for the "Meltem Izmir", the country's first self built cutter suction dredger. A full installation consisting of a DGPS compass, industrial computer and dredging sensors were installed at the shipyard in Izmir Turkey.



- **Pipe Laying Operating Peru**

For a large scale project in Peru we made a number of custom enhancements to our Viking software. The project consisted of two barges dredging with custom built cutter heads suspended from an A-frame, multibeam survey vessel and an anchor handling tug. The cutter heads were interfaced to Viking Dredge for real time visualisation and 3D matrix updates. Alongside we updated Viking Survey to support the multibeam echo sounder and set up real time vessel data telemetry. We also supplied all vessels with RTK GPS positioning.



- **Renovation of the Dutch River "Vecht"**

Our client Van der Lee Bruchem was equipped with four GeoDredge systems on their excavators. The Vecht project is well known in The Netherlands for the demanding requirements that are put on the dredge monitoring systems.



In Development....

"According to ancient Norwegian beliefs Midgard is a realm surrounded by oceans, located in the middle of the world."

Therefore we found Midgard to be a pretty cool name for our new product. Midgard will be at the centre of a vessel's own "world".

It will connect positioning information and relevant sensors to our Viking Software, better yet, it is a powerful and highly versatile hardware platform for our Viking software.

Midgard can, for example, be a true all-in-one Tug Management System, a data hub on a Trailer Suction Hopper Dredger, or as a turn key solution on a backhoe dredger.

More information coming soon!



CT SYSTEMS