

## 1 PROJECTS

A summary of the projects carried out by TARKA-SYSTEMS for marine/offshore/salvage/wind applications:

### 2015 NES OFFSHORE FLOATOVER and MOTIONS

**Q2-Q3 2015:** Installation and start-up on site  
Sensors : Motions, GPS, Wireless-datalink,  
RIDIUM Tracker, Flow sensor, RTG-GPS, Tidal sensor



### 2015 NES OFFSHORE FLOATOVER and MOTIONS

**Q2 2014:** Preparation and assembly of complete Motion Monitoring System on barge for motions GPS and wireless link to tugs. Boxes powered by battery supply.  
Software: Mlab to collect and present all sensor data  
Sensors : Motions, GPS, Wireless-datalink, IRIDIUM Tracker.

**Q4 2014:** Preparation and assembly

**Q2 2015:** Installation and start-up on site



**2014 – 2015    RESOLVE MARINE    SALVAGE**  
**MOTIONS and WIRELESS DATALINK**

**Q4 2014:** Preparation and assembly of complete Motion Monitoring System with two separate stand-alone motion boxes with wireless link to Control Office. Boxes powered by battery supply.

Software: Mlab to collect and present all sensor data

Sensors: Motions, GPS, Tide, Wireless-datalink, IRIDIUM Tracker.

**Q1 2015:** Installation and start up on-site in South America



**2014                    BARGE MASTER                    NEW BUILT T40**

**Q3 2014:** For new built product T40. Assembly of a portable measurement flight-case to be able to carry out measurement on-site. Case has modular setup for universal sensor inputs. Development of special measurement software.

Software: Mlab to collect and present all sensor data, connection with SIEMENS plc.

Sensors : Motions, GPS, Force, PLC



**2013-2014            HEEREMA                    BARGE H851**

**Q2-Q3 2013:** Preparation and assembly of hardware and software for complete monitoring system on the largest barge of the world.

System consists of the following sensors:

Motion, DGPS, IRIDIUM Tracker, Tide, Wind, Flow, Wireless datalink with three tugs.

FLOAT-OVER: Barge was used to install ARKUTUN-DAGI topside

**Q3 2013:** Extension of SOW with strain-gauges in water ballast tanks. 15 sensors in 3 tanks

**Q1 2014:** Installation on-site in Korea and China

**Q2 2014:** Extension of SOW with extra strain-gauges in ballast tanks, 10 sensors in 2 tanks

**Q3 2014:** Installation on-site in Korea and China

**Q1 2015:** Barge is prepared for new float-over project



**2013      BARGE MASTER      NEW BUILT T700**

**Q3 2014:** For new built product T700. Assembly of a complete measurement system to gather all incoming signals. Development of special measurement software for test during sea-trails

Software: Mlab to collect and present all sensor data, connection with SIEMENS plc.

Sensors : Motions, GPS, Force, PLC, Wave Buoy



**2013      MAMMOET      SALVAGE**

**Q1 2013 :** Complete monitoring system for wreck salvage for subsea monitoring of rotations and accelerations during salvage operation. System includes also a wireless video buoy and a wireless data buoy.

System used for projects in Malaysia, Canada, Irak

Software : Mlab to collect and present all sensor data.

Sensors : Motions, GPS, Wireless video buoy, wireless data buoy



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**2013                      HEEREMA                      TRANSPORT**

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**Q2 2013** : Complete monitoring system for motion and location monitoring during transport



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Projects carried out as Lead Instrumentation Engineer at Maritime Research Institute Netherlands (MARIN).  
(Period 1998 -2011, average of 100 days a year abroad for installation en measurement activities)

- **US Coast Guard**, site manager and full installation of measurement system on Coast Guard cutter BERTHOLF. (USA)
- **BLUEWATER – FPSO GLASDOWR**, Installation and maintenance on fatigue life system.(Scotland, South Africa, Singapore)
- **ANADARKO – TLP MARCO-POLO**, motion monitoring system for tow-transport (Gulf of Mexico)
- **FSPO – USAN**, Installation of complete measurement system (Angola)
- **Cruise ship – MILLENNIUM**, installation of sensors and system for research project.

**References from clients:**

**Barge Master:** <http://www.tarka-systems.nl/upload/file/quick/TarkaOffshore2013.pdf>

**United States Coast Guard:** [http://www.tarka-systems.nl/upload/file/quick/USCG\\_Wijgerse\\_ltr\\_02.pdf](http://www.tarka-systems.nl/upload/file/quick/USCG_Wijgerse_ltr_02.pdf)



