



# LAKE SURVEY 2015

Organised by:



Location: Vlietland, Leidschendam, the Netherlands  
 Survey date: June 29<sup>th</sup> to July 3<sup>rd</sup> 2015  
 Survey vessel: Calibrator  
 Multibeam sonar: R2SONIC 2022  
 Acquisition software: Fugro Starfix  
 Processing software: CARIS HIPS & SIPS  
 Horizontal datum: World Geodetic System 1984 (WGS84)  
 Vertical datum: Vlietland Lake Level  
 Projection: Universal Transverse Mercator (UTM 31N)

In close cooperation with:



Executed by Maritiem Instituut Willem Barentsz students:  
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Panel Information:

1. Main Panel, scale 1:4000: Top10NL, Satellite Imagery and Bathymetry overlay, Contour lines (black), Profile line (yellow) and 3D viewpoints with bearing A,B,C,D (blue)
2. Profile Cross section: Depth cross sections left to right = SW to NE
3. Profile Cross section: Gradient cross sections left to right = SW to NE
4. Bottom Gradient Map NE part, scale 1:4500: Gradient and TOP10NL overlay, rotated 35°W
5. Bottom Gradient Map SW part, scale 1:3500: Gradient and TOP10NL overlay, rotated 45°W
6. Contours and Soundings, unscaled: S-57 objects chart and Satellite Imagery overlay

A,B,C&D refer to numbers on Main Panel  
 A. 3D View: Air-bubbles in N-part, air hose for improvement of the water quality  
 B. 3D View: Sand excavation N-part, steep walls  
 C. 3D View: Sand excavation in S-part, deepest area 37 metres  
 D. 3D View: Sand deposits in S-part, to support instable walls

Sources:  
 TOP10NL map <http://geodata.nationaalgeoregister.nl/top10nl/wms?SERVICE=WMS&request=GetCapabilities>  
 Satellite imagery <http://geodata1.nationaalgeoregister.nl/buchfoto/wms?request=GetCapabilities>  
 Cadastre legend <http://www.kadaster.nl/web/artikel/download/TOP25raster-legend-1.htm>

