

Yuriy Smagin

**Head of Expeditionary Department
State Hydrographic Service of Ukraine**



The course was started on September 6th 2010 and completed on December 17th 2010.

The course is consist of 3 Modules:

- Module 1 Marine Cartography;
- Module 2 Hydrographic Data Processing;
- Module 3 Electronic Navigational Charts.



During the course the group visited:

- Bristol Port Authority;
- Brixham Harbor Authority and Coastguard;
- Salcombe Habor
- Devonport Naval Base;
- Portsmouth Naval Base.



The course also visited many other work areas of the UKHO:

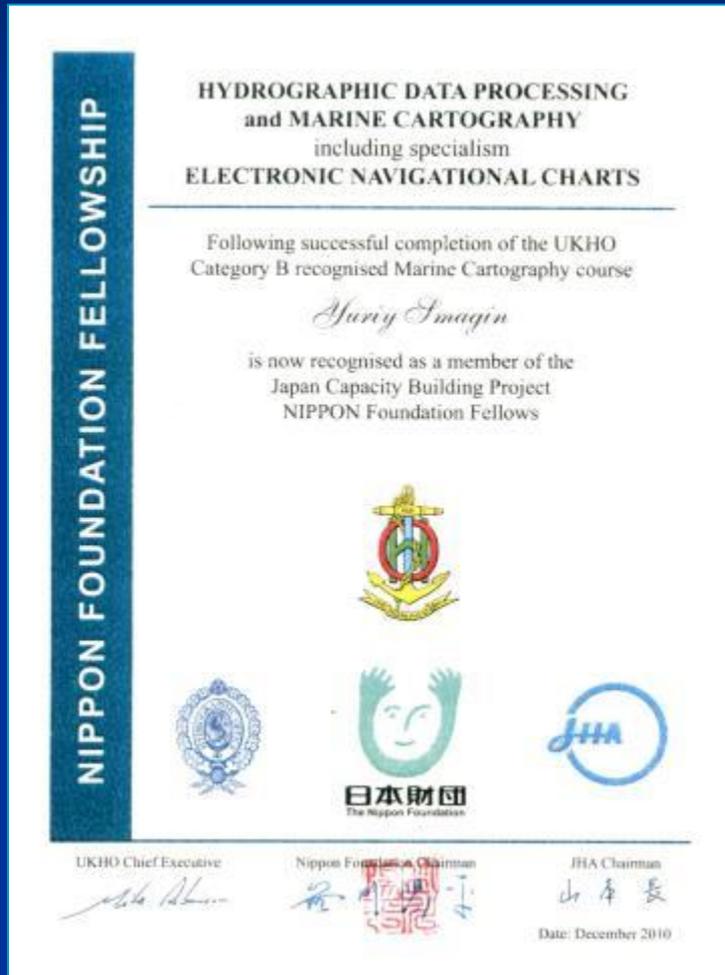
- Archive and Conservation;
- Chart Branch;
- Tidal Branch;
- Admiralty Raster Chart Service
- Wrecks Section;
- Lights Sections;
- AML servise;
- National Warning Service;
- Photogrammetry;
- International Centre for ENC



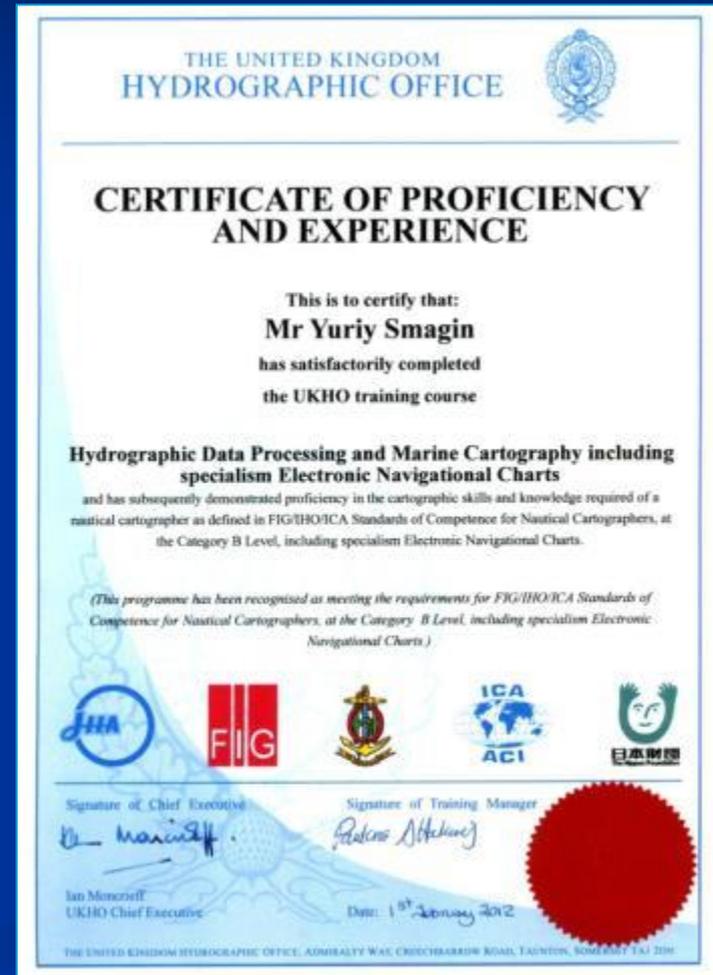
The Final Certificates, including the NIPPON Fellowship certificate were presented by Rear Admiral Nick Lambert (UKHO National Hydrographer. August 2010 – December 2012) at the closing ceremony.



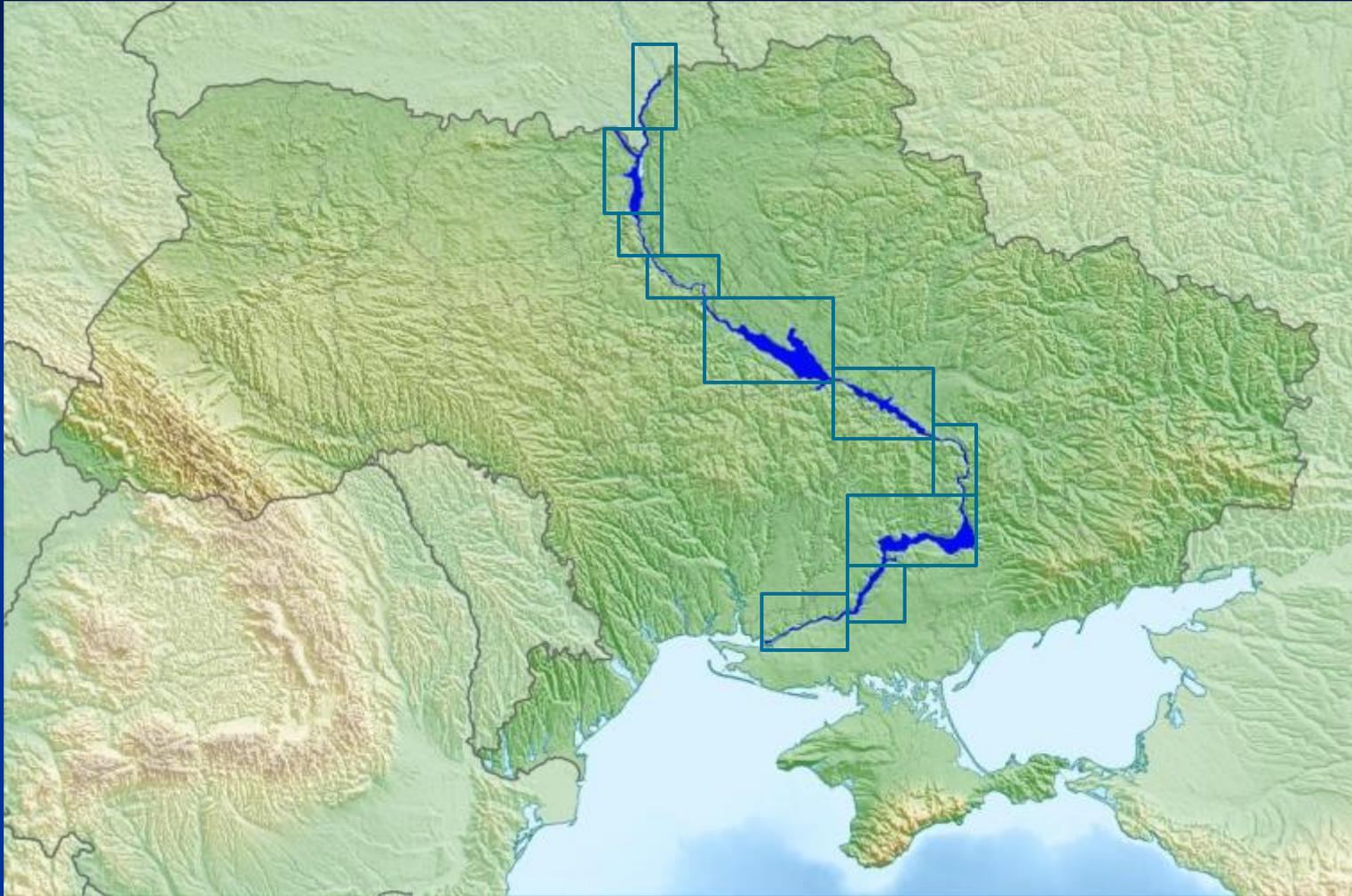
The NIPPON Fellowship certificate



Certificate of proficiency and experience



Hydrographic mapping in the Dnieper cascade reservoirs in the 2006 - 2011

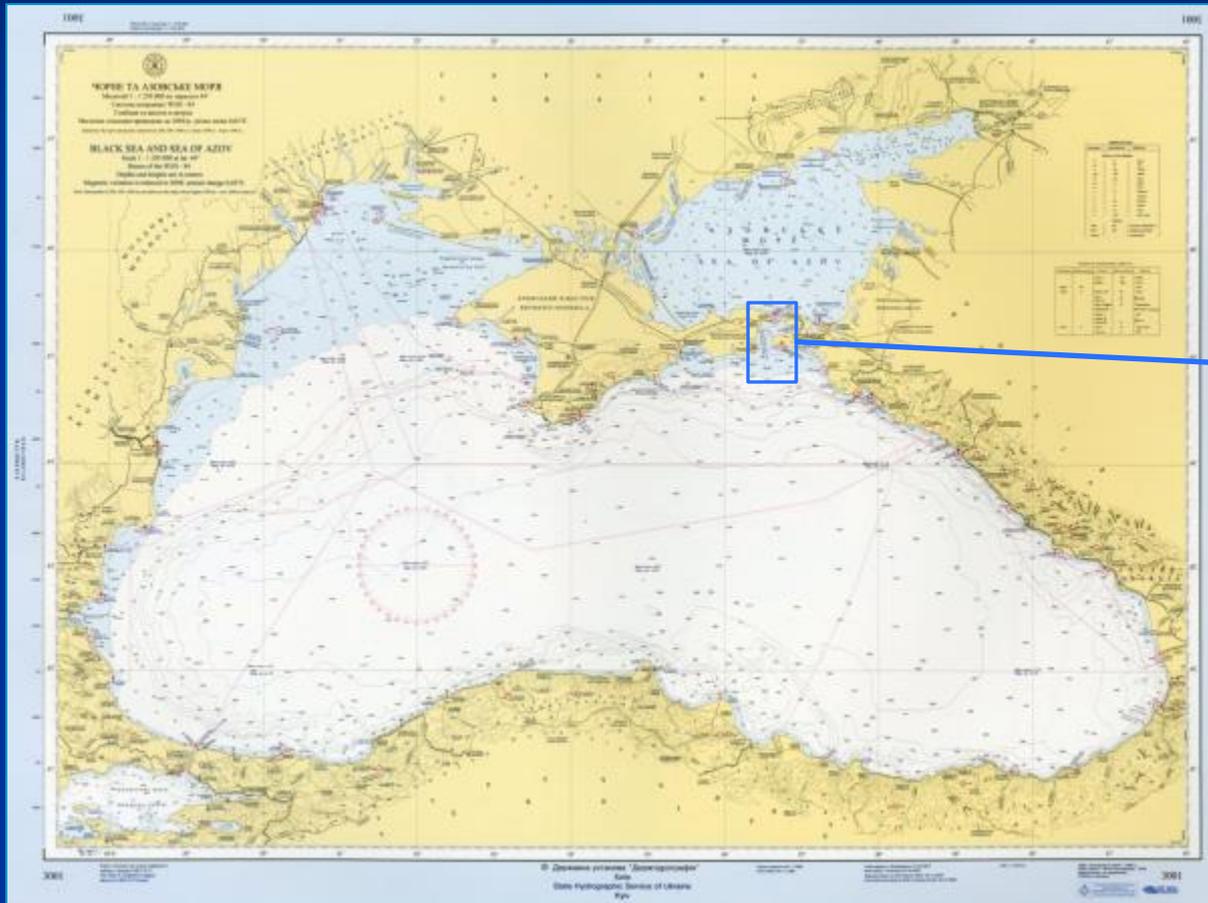


2011 year State Hydrographic Service of Ukraine has completed long-term hydrographic and land surveys on the Dnieper cascade reservoirs.

2012 year: New Inland Chart: paper charts - 108; ENC New Cells - 131

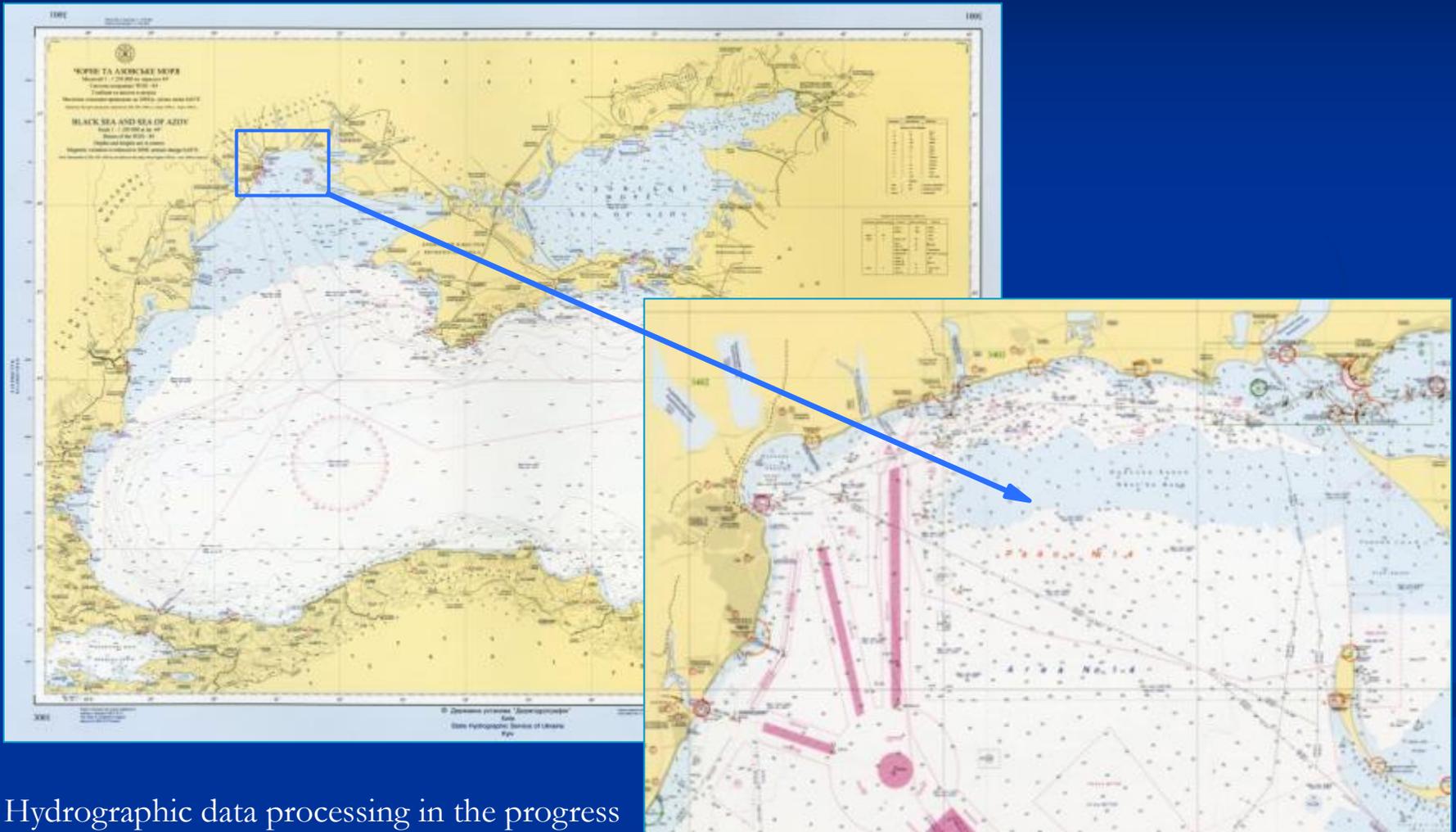
2012

Hydrographic surveys on the Kerchenska Strait, approaches to the Kerchencka Strait in the Black Sea and the Sea of Azov (Ukrainian zone of responsibility)



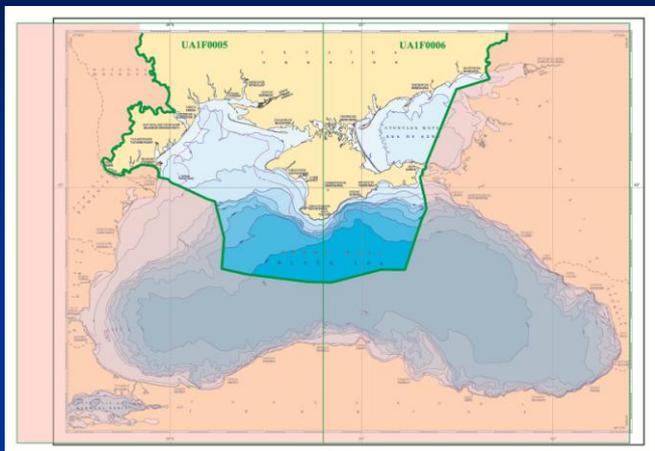
2013

Hydrographic surveys of approaches to the ports Odessa, Ilchivsk, Bilhorod-Dnistrovskyi, Yuzhnyi, and Byzko-Dniprovsko-Lymanskyi channel

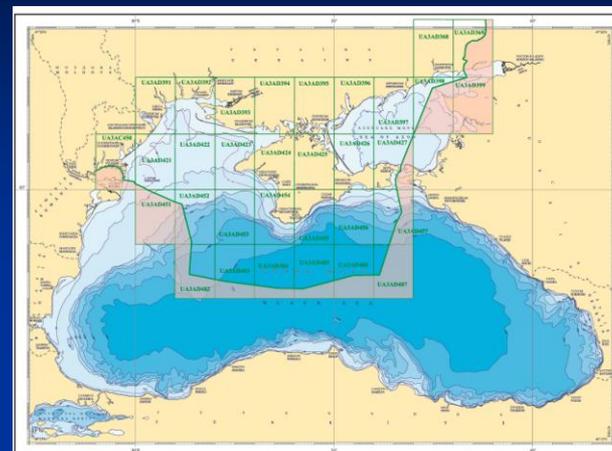


Hydrographic data processing in the progress

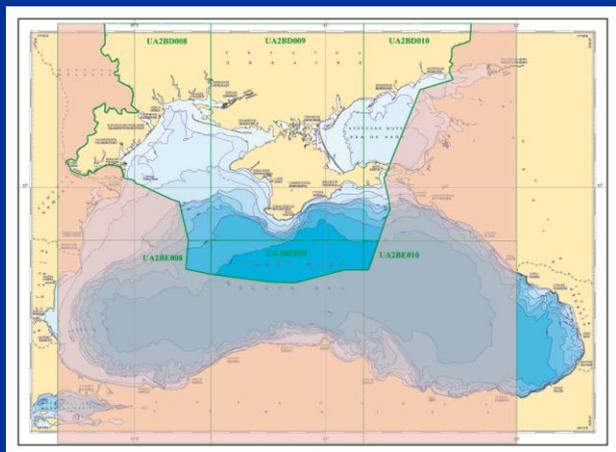
Scheme of Ukrainian ENC cells in the Region F (Black Sea, the Sea of Azov and Marmara Sea)



Overview (1st scale range)



Coastal (3rd scale range)



General (2nd scale range)



Approach (4th scale range)

New equipment of State Hydrographic Service 2011-2013

- - have upgraded multibeam echosounder Reason SeaBat 8101 to the Seabat 7101 version;
- - purchased two sidescan sonars CM2 C-MAX;
- - purchased 5 catamarans for hydrographic surveying. 2 in the 2012 and 3 in the 2013

Before

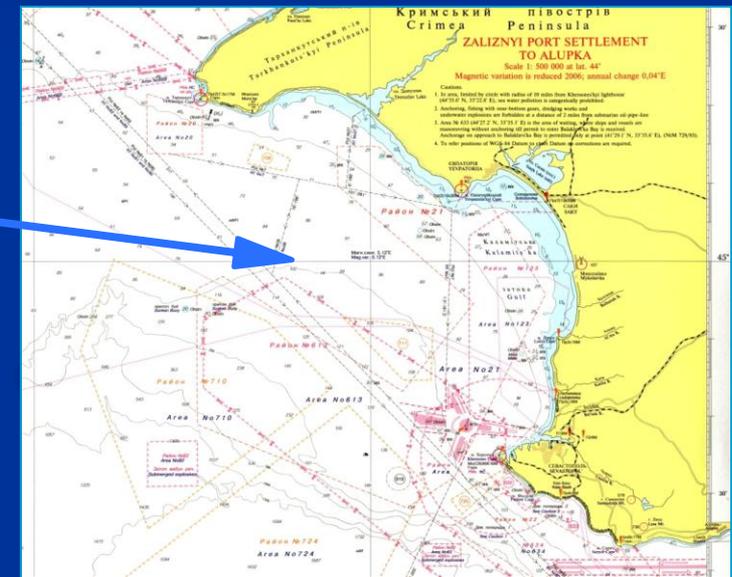
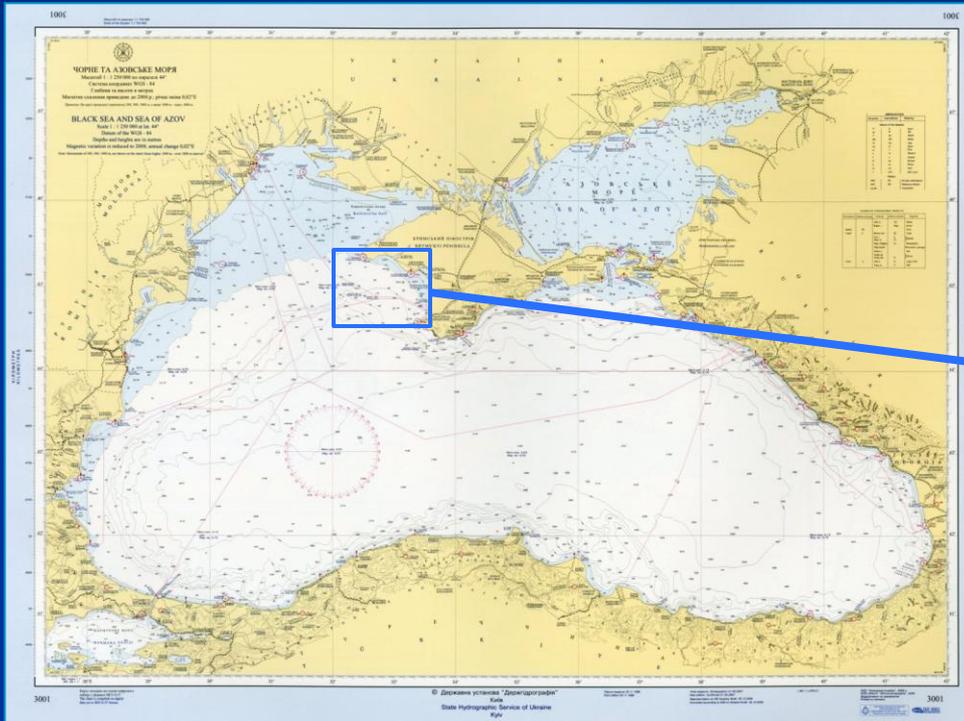


Nowadays



Future plans

1. Hydrographic surveys on the Kalamits'ka gulf



2. Direct measurements of sea level by tide gauges for monitoring decadal sea level changes and long term sea level rise were started in 2014

Thank you for your attention!