





# Co-operation with SWERA - Badewanne Diving Exploration Team

- Exploring and documenting the wrecks of World Wars in the Gulf of Finland





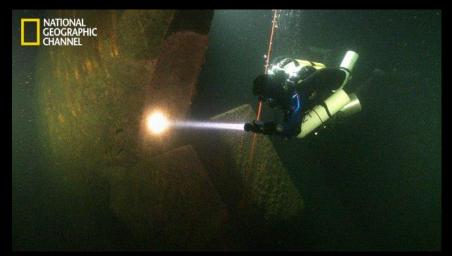
## Who/what is Badewanne

- A Finnish group of voluntary divers that has explored shipwrecks in the Gulf of Finland for 20 years
- Amateurs, everybody have their normal daily jobs
  - Exploration funded by everybody's daily jobs as a freetime hobby
- A multitalented team with a broad skill set
  - Video & Still photography
  - Drawing & 3D modelling
  - Engineering (lights, sonar, electronics)
  - Biology and environmental sciences, marine research



# Our Aim: High quality documents for the broad public, data for researchers

- For over 20 years we have been locating, exploring and documenting war wrecks in the Gulf of Finland
- The work has amounted lots of photographs combined with historical background material, 3D models, drawings and more









# Documentary "Nazi Sunken Sub"

- Submarine war on Gulf of Finland on early 1945
- German U-boats *U-745*, *U-676*, Finnish mineship *Louhi*











# "Mystery Ship"

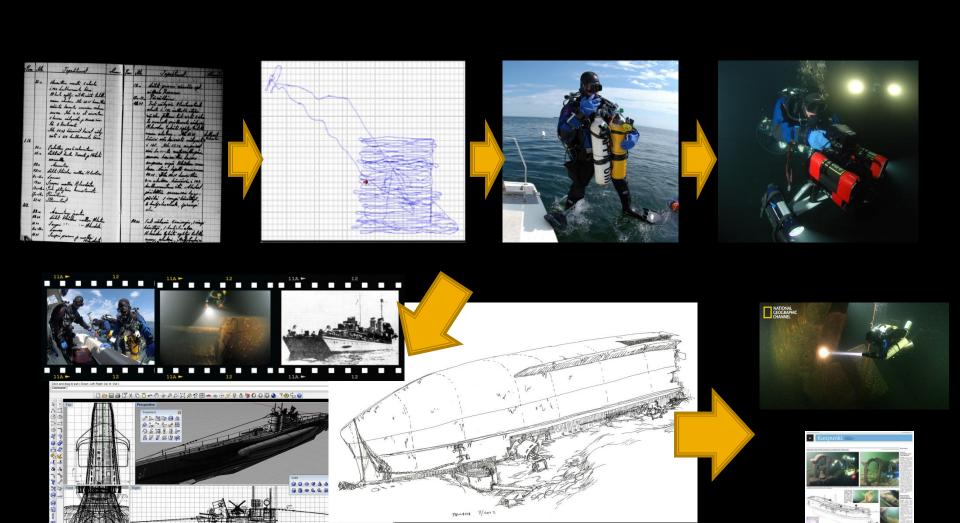
Sloop of war from late 18th century



# German destroyers Z35 and Z36



# The documentation "process"



# Many of the war wrecks in Gulf of Finland where sunk by mines



Find the mines and you find the wrecks...



## Philosopy and training

- Avoid complacency
- Avoid distraction Be a disciplined diver.
- Be a thinking diver not just a reactionary diver
- Always know your po2.
- Do not be cheap
- Dive the GCR regularly
- Assume that any mechanical or electrical device will fail
- Accept that all emergencies that are discussed and taught during training will happen eventually on any CCR
- Do not start dives with a known system failure?
- Giving consideration to the above, CCR is by far safer than any other form of diving.

# **Equipment of choice JJ-CCR**

- eCCR, since 2006
- CE according to EN 14143:2013
  40m, 4°C, 1,6L CO<sub>2</sub>, 40L/min = 180min
- Shearwater Petrel controller, HUD
- Clean chest
- Back plate harness
- No "auto pilot function"
- Diver controlled unit



# JJ-CCR

- Simple, robust, and reliable
- Stainless steel, delrin and high grade aluminium
- Flexible
- Travel friendly



## **Current Research Topics WW I**

#### Documenting located wrecks

- Documenting mineship Yenisey (sunk by U26), on Estonia
- Documenting destroyer Kazanets (mined by UC27 mines), on Estonia
- Documenting wrecks on the minefield laid by "Deutschland" 17.8.1914 (2 Dutch merchants, 3 Russian sweepers)

#### Documenting German U 26 (sank Pallada, Yenisei, Petshora, Fråck)

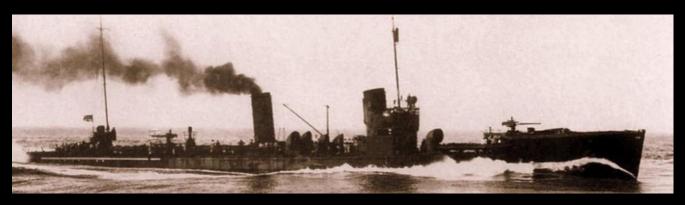
- Badewanne team discovered SM U 26 off Hanko on Russian WWI minefield on May 2014
- U 26 wreck need to be still documented further

#### Search for German UC 57

Lost after 17.11.1917 somewhere in the Gulf of Finland

#### Search for the seven lost destroyers of the German X. TorpedobooteFlotille

 Seven class V25 destroyers lost 10./11.11. 1916 on a raid to Baltischport (Paldisky) of Dagerort on the mines of the "Forward Position"-field. Approximate positions known.



Russian archives & sources vital for the research

## Current Research Topics WW II

#### Submarine warfare

- Soviet submarines on GoF on 1941 ... 1943 (several boats still missing, SC301 probably located but not documented)
- German submarines on GoF on 1944 ... 1945 (Documenting U479, search for U679)
- Finnish & Russian surface vessels sunk by German U-boats on autumn 1944
- Soviet antisubmarine operations on autumn 1944

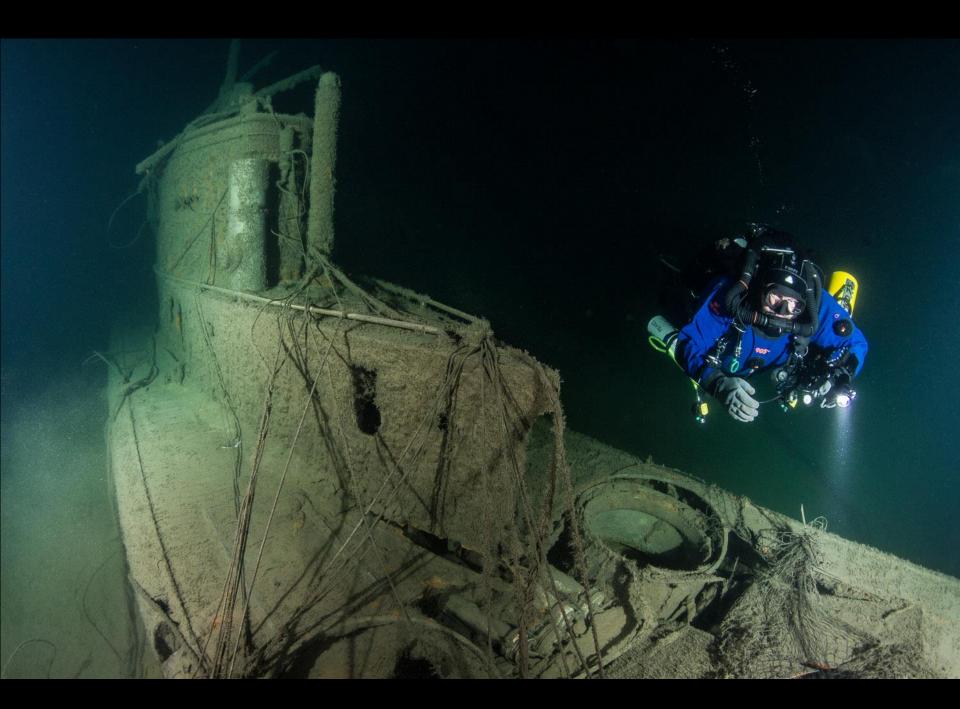
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# Some highlights from the seasons 2014 - 2015

# German submarine SM U 26

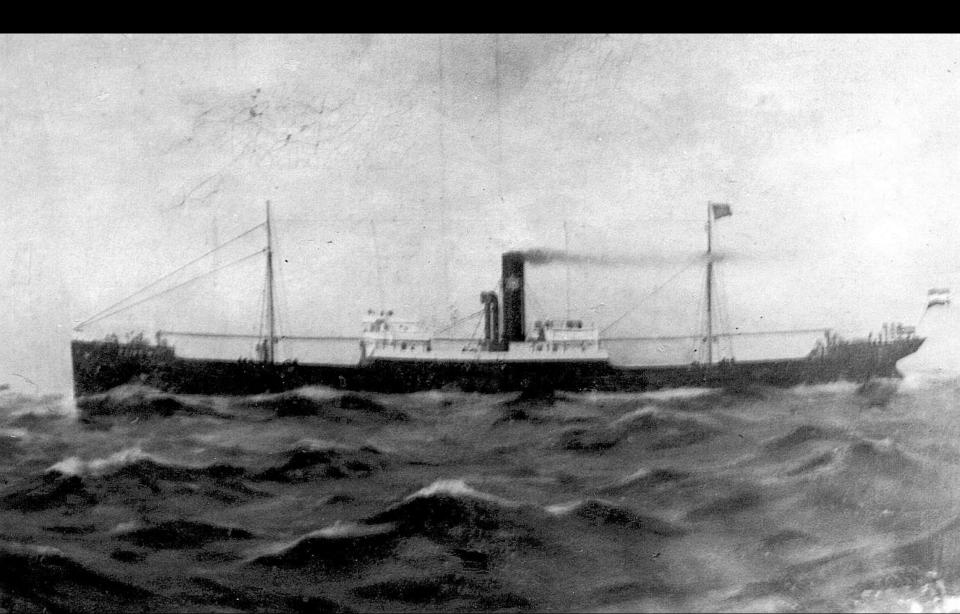


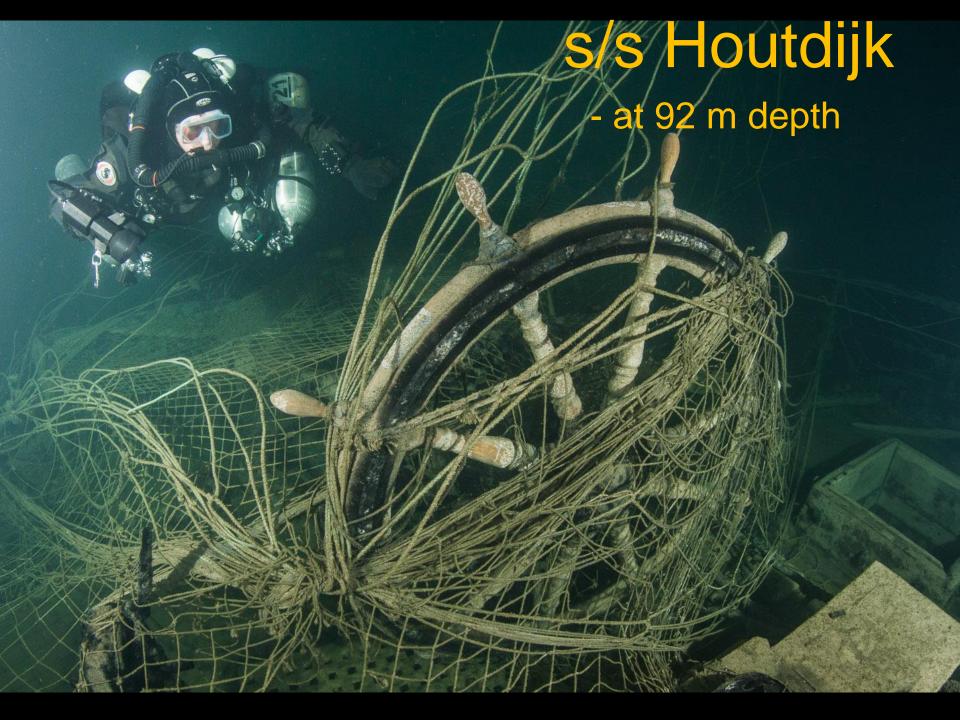




## Dutch steamers Alice H. And Houtdijk

- The first victims of the WW I in the Gulf of Finland

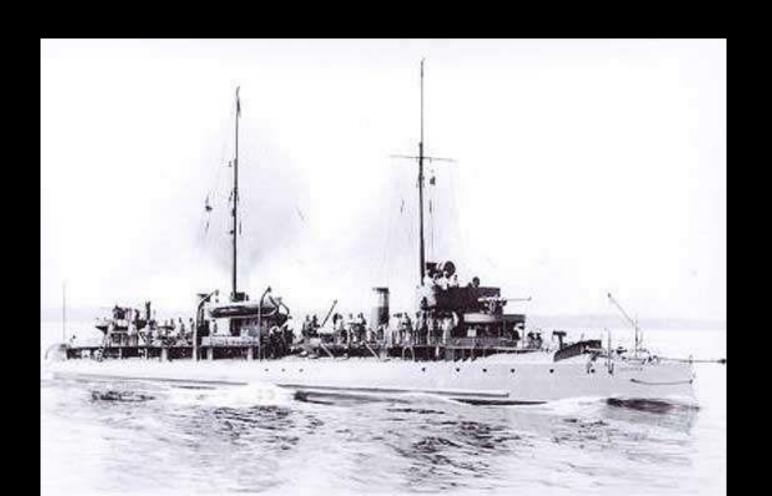






# Ispolnitelnyi (Исполнительный) and Letutshi (Летучий)

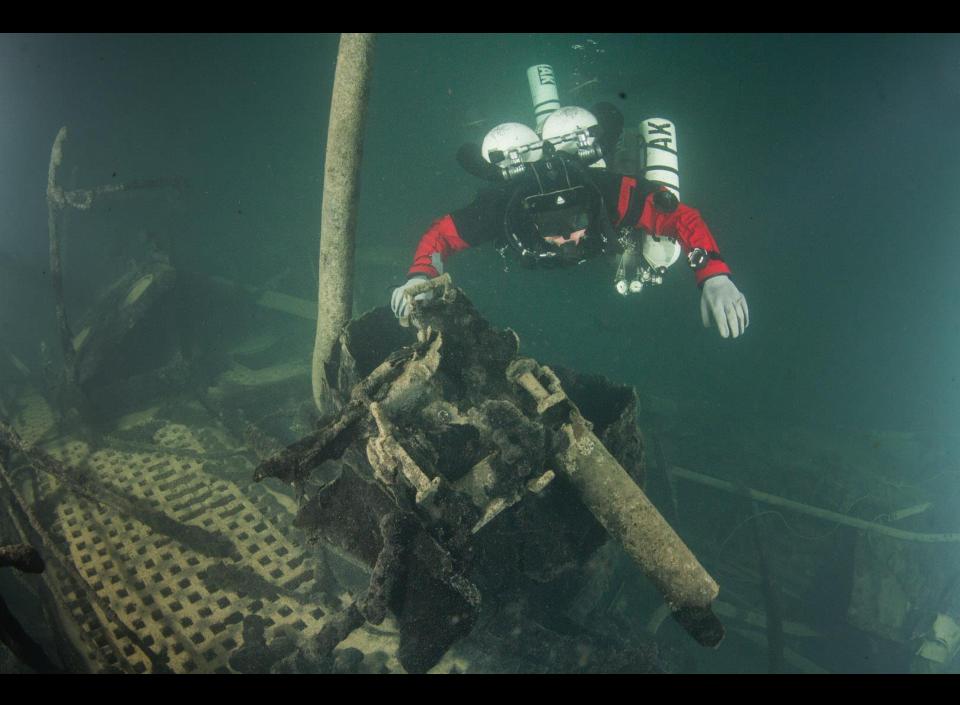
- Russian WWI destroyers lost in storm Dec. 1914 Leutenant Burakov 1905 class



# Ispolnitelnyi

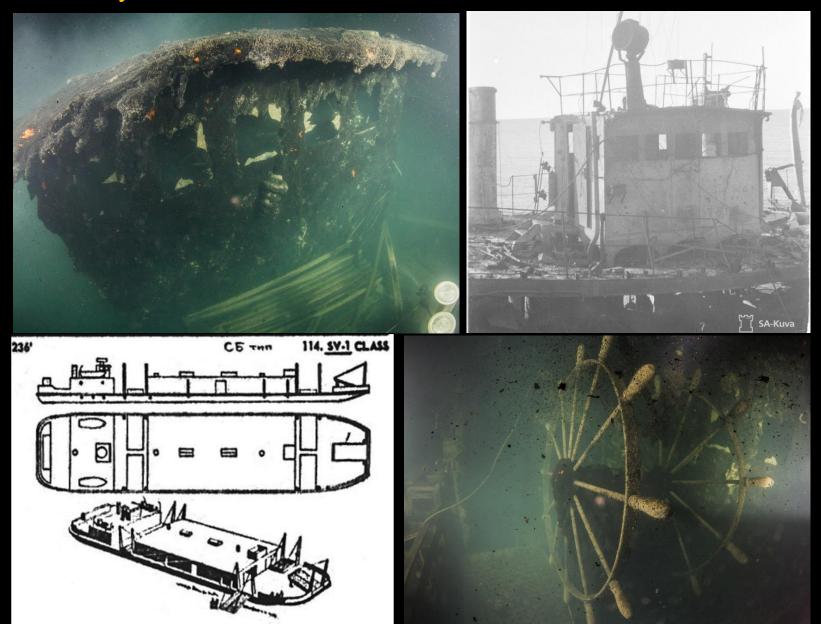




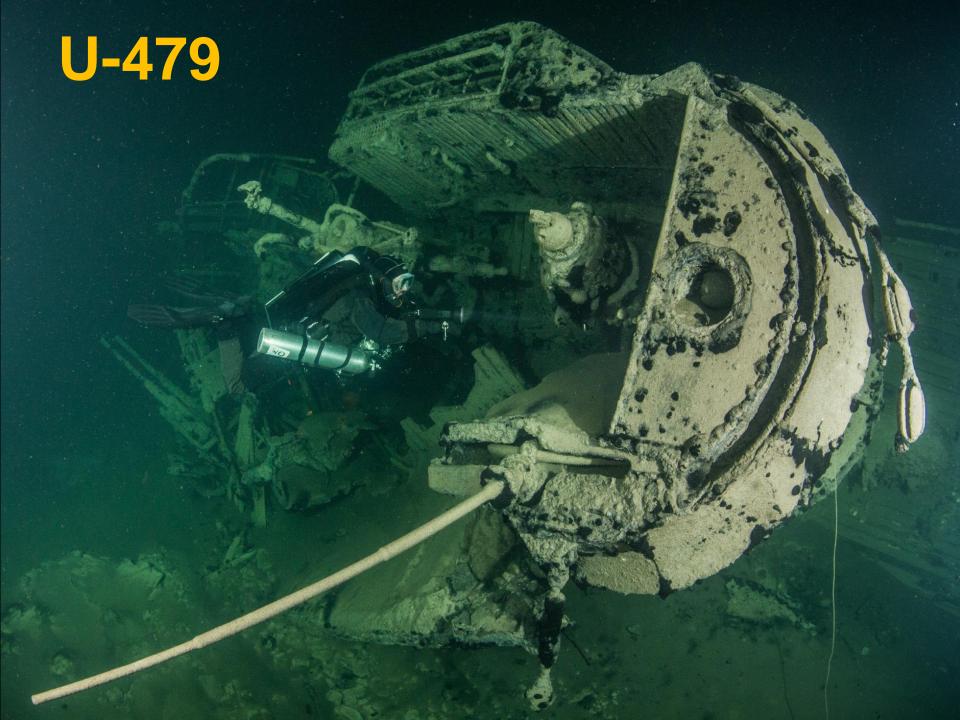


### Soviet SB-2 (СБ -2), amphibious assault craft

- Sunk by German U-958 Oct. 1944







# Minelayer Jenisei, sunk 1915 by U-26









# Schnellboot S-106

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