Co-operation with SWERA - Badewanne Diving Exploration Team
- Exploring and documenting the wrecks of World Wars in the Gulf of Finland

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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
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*
Pallada was sunk by German submarine U26 on 11th Oct. 1914
Located by Badewanne team on 2000, published on 2012
Off Hanko, Gulf of Finland
Soviet submarine wrecks, Several from WWII
“Mystery Ship”
Sloop of war from late 18th century

Location: Off Helsinki
Depth: 60m
Identity: unknown, possibly British origin
German destroyers Z35 and Z36

Off Porkkala, Gulf of Finland
Sunk 12th of Dec. -1944
Navigation error, own German minefield
Depth 70 meters
The documentation "process"
Many of the war wrecks in Gulf of Finland where sunk by mines

Find the mines and you find the wrecks...
“I think it’s a little to the right...”
Philosophy 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 CCR 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 CO₂, 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

Russian archives & sources vital for the research
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
s/s Houtdijk
- at 92 m depth
Ispolnitelyi (Исполнительный) and Letutshi (Летучий)
- Russian WWI destroyers lost in storm Dec. 1914
Leutenant Burakov 1905 class
Ispolnitelnnyi
Soviet SB-2 (СБ -2), amphibious assault craft - Sunk by German U-958 Oct. 1944
U-479

- 3,7cm FlaK Rheinmetall-Borsig (RmB) M42
- Twin 2cm guns, "Zwilling", RmB (in the background)
Minelayer Jenisei, sunk 1915 by U-26
Torpedo boat T18

- 900 ton destroyer of "torpedoboot 37"-class
- Size 85.2 x 8.87m
- Sunk 17 Sept 1944
  By Soviet aircraft
- Lies broken in half
- Estonian waters
- 100m depth
- 2 cm “Vierling” Flak, RmB
  pointing straight up
Torpedo boat T18

- 1 × 105 mm L/45 C/34, RmB
Schnellboot S-106

- 35m long
- Made of wood!
- 2 × 53.3 cm torpedo tubes
- 1 × 20 mm gun, RmB
- 1 × 40 mm gun, Bofors
- Located 2015
- 80m
- Worlds best preserved?!
- MG 34, 7.9mm
Schnellboot S-106
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