

ICE TANKER OPERATIONS

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Managing Director
Ice Advisors Ltd.



Ice Advisors Ltd

**PROFESSIONAL AND SAFE ICE NAVIGATION
IN THE BALTIC SEA**

Jointly owned by Finnpilot and Finstaship



**YEARS OF
KNOWLEDGE AND
EXPERIENCE IN
WINTER NAVIGATION**

- **Finnpilot** The Finnish State Pilotage Enterprise
- **Finstaship** The Finnish State Shipping Enterprise

Why ice navigation services?



**ICE ADVISORS
PROMOTE SAFE AND
ENVIRONMENTALLY
FRIENDLY
SEA TRANSPORTS**

THE BALTIC SEA IS DIFFICULT TO NAVIGATE:

- Hard winter conditions
- Shallow coastline
- A lot of traffic

Why ice navigation services?



THE BALTIC SEA IS GENERALLY FROZEN EACH YEAR FROM NOVEMBER TO MAY

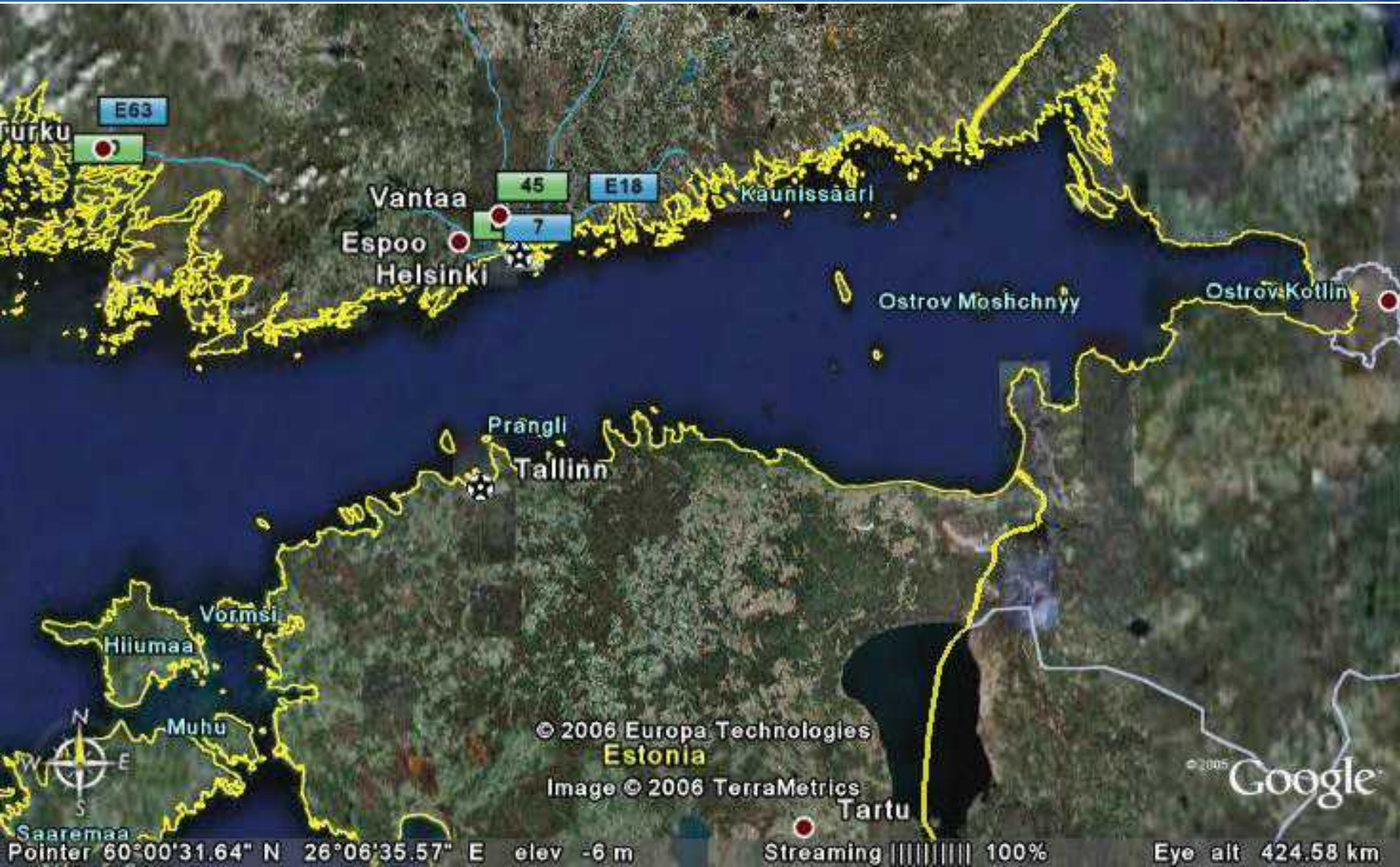
- Vessel's journey may end suddenly in the ridged ice.
- Ice may damage the vessel:
 - ➔ may force the vessel into the shallows
 - ➔ the pressure of the ice can severely damage the vessel.

Professional and safe ice navigation in the Baltic Sea

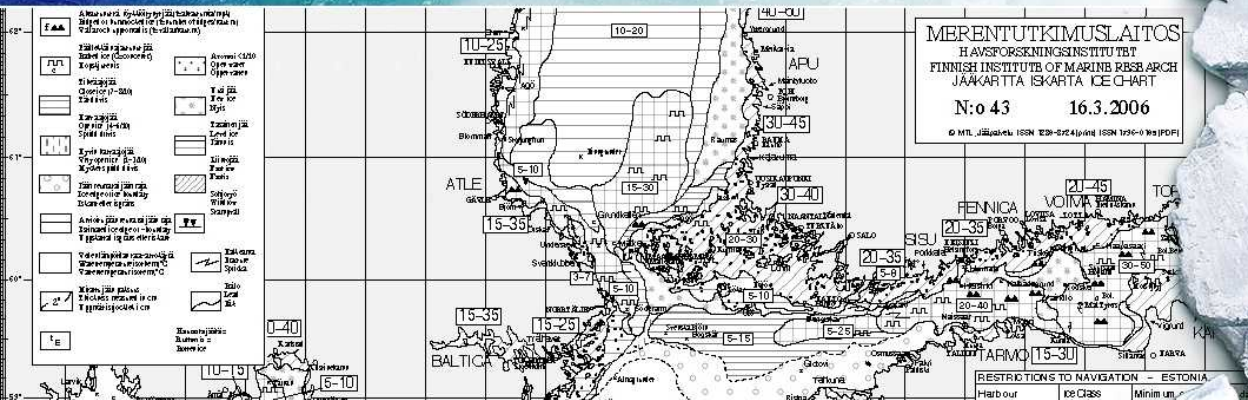


**THE ICE NAVIGATORS
ARE EXPERIENCED
PILOTS AND
SHIPMASTERS
ON ICEBREAKERS**

- All navigators are experienced sea captains with a good understanding of sea ice and winter conditions.
- Best sources of information on ice conditions at the Baltic Sea.



Economical and easy



**OUR CUSTOMERS
INCLUDE SHIPPING
COMPANIES ALL
OVER THE WORLD**

ICE NAVIGATION SERVICE IS A PROFITABLE AND EASY WAY:

- to ensure safe navigation
- to save costs by minimizing sailing time
- to keep timetables
 - ➔ delays increase transport costs
- to pay attention to environmental safety.
- Especially for the companies transporting oil from Russian ports.

Onboard navigation expert



**THE ICE NAVIGATORS
ARE EXPERIENCED
PILOTS AND
SHIPMASTERS
ON ICEBREAKERS**

- The navigator serves as a consultant to the shipmaster for the entire journey.
- The navigator boards the ship off of Finland and leaves the ship on its return journey from the port.

Onboard navigation expert



The navigator has access:

- to the latest satellite images
- real time weather and ice reports from the icebreakers
- the ice information of the Finnish Institute of Marine Research and the weather forecasts of the Finnish Meteorological Institute.

Pricing



ICE ADVISORS' NAVIGATIONAL SERVICE IS AVAILABLE

- As a contracted service with a predetermined number of journeys.
- As single assignments whenever the service is required.

Pricing



- The costs of one assignment consist of navigational services for one 24-hour period and the use of transport equipment.
- Contract customers will receive a discounted price that corresponds to the amount of journeys.
- VAT 0%

How to order?



**ICE NAVIGATORS
MUST BE RESERVED
FIVE DAYS BEFORE
THE VESSEL ARRIVES
THE BALTIC SEA**

- Three days for the contract customers.
- The reservation should include estimated time and place of boarding for the navigator.
- The exact time of boarding will be updated by the vessel.

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Thank You

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