

## Winter Navigation Service (WNS)

1. Winter Navigation Service provides ships ice routes and detailed information regarding icebreaker assistance in the northern Baltic Sea. Information will be provided from ice-coordination centers and directly from icebreakers.
2. In ice-covered areas, the coordinating icebreaker provides waypoints, which indicate the recommended route. The waypoints are set in order to help vessels navigate more easily and safely in ice conditions and in order to enable ships to navigate unassisted for as long as possible. Ships are, however, at all times responsible for their own safe navigation.
3. General ice waypoints for all ships will be available for all vessels for route planning. When ships are entering the ice covered waters, Shore Centers will send the up-to-date waypoints directly to the ship.
4. Icebreaking authorities recommend that all ships that are bound for ports in ice-covered water send their voyage plan (Preferably, it should contain a schedule) to the service. Information will be used for monitoring of the ships voyage in ice conditions and for planning of icebreaker assistance.
5. When needed, icebreakers will send detailed recommended ice routes to ships. These recommendations can be either short alternative segments for the planned route or the modifications in the ships original route. After receiving the information, ships navigational personnel can update the current voyage plan and send it to all interested parties.
6. In addition, icebreakers and coordination centers can send further information using text messages. This can include information such as; the position, name and VHF working channel of the icebreaker, recommended time of arrival to icebreaker meeting point, assistance order or other navigational instructions.

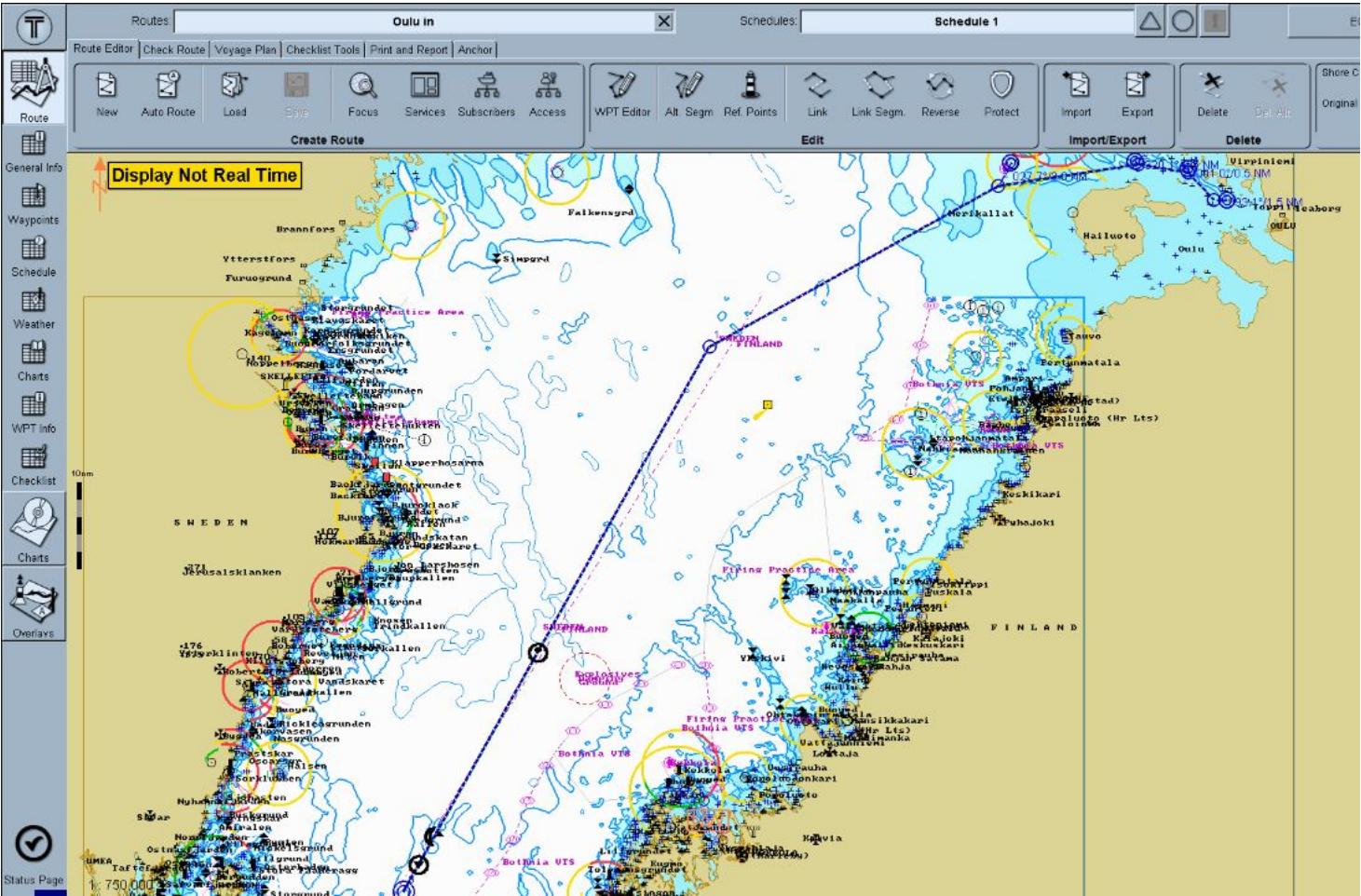
### *WNS Example*

Ship voyage: Baltic Sea-Oulu

1. The ship share the route with the WNS (Which you can find in your STM ECDIS).
2. WNS receives your route, Icebreakers and VTS's will monitor the ships proceeding along the route. When ice conditions require WNS will send recommended ice route to the ship.
3. If WNS seems that it's necessary to send a recommended route to the ship they can edit the route received from the ship and send back the edited route to you or WNS can send only a short ice route to the ship, and then the ship has to insert the Ice route into it's own route.
4. Depending on what ECDIS system you ship has, you will in different ways be able to get the WNS to "Subscribe" on your monitored route, i.e. if you do changes in you route and chose it for monitoring again, WNS will be informed about you updates. In some of the ECDISes (Transas) the ship can subscribe on the WNS.

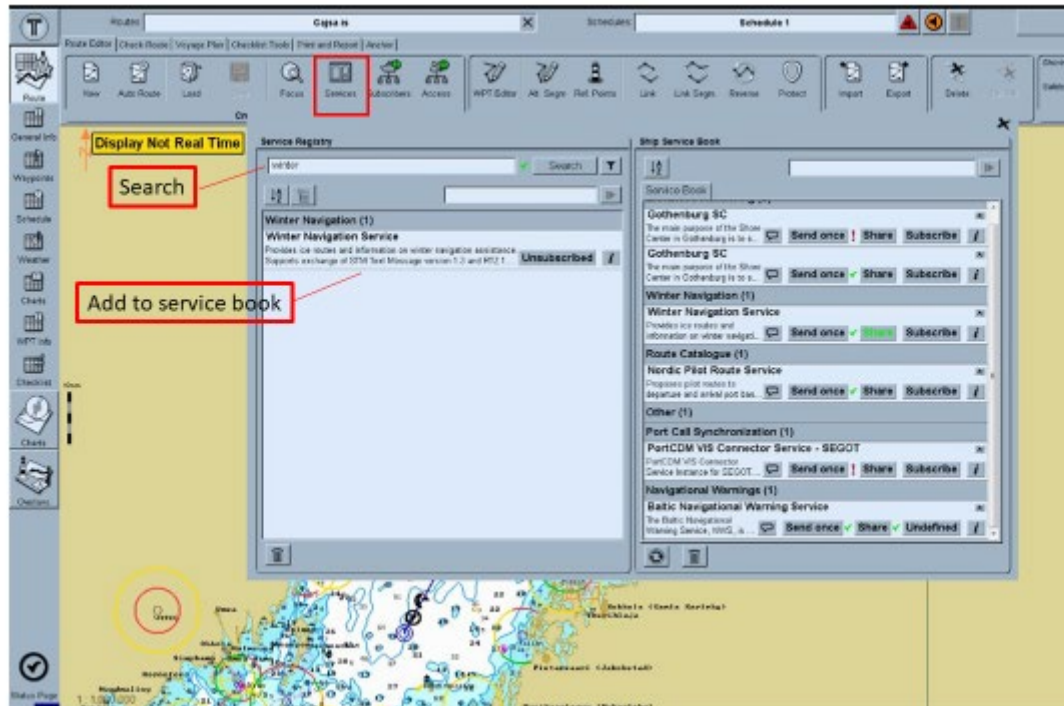
Below it is shown in detail how to do it in a Transas ECDIS (NB. In the "Naviplanner" part of your ECDIS) with STM capability.

Start with creating a Voyage Plan.

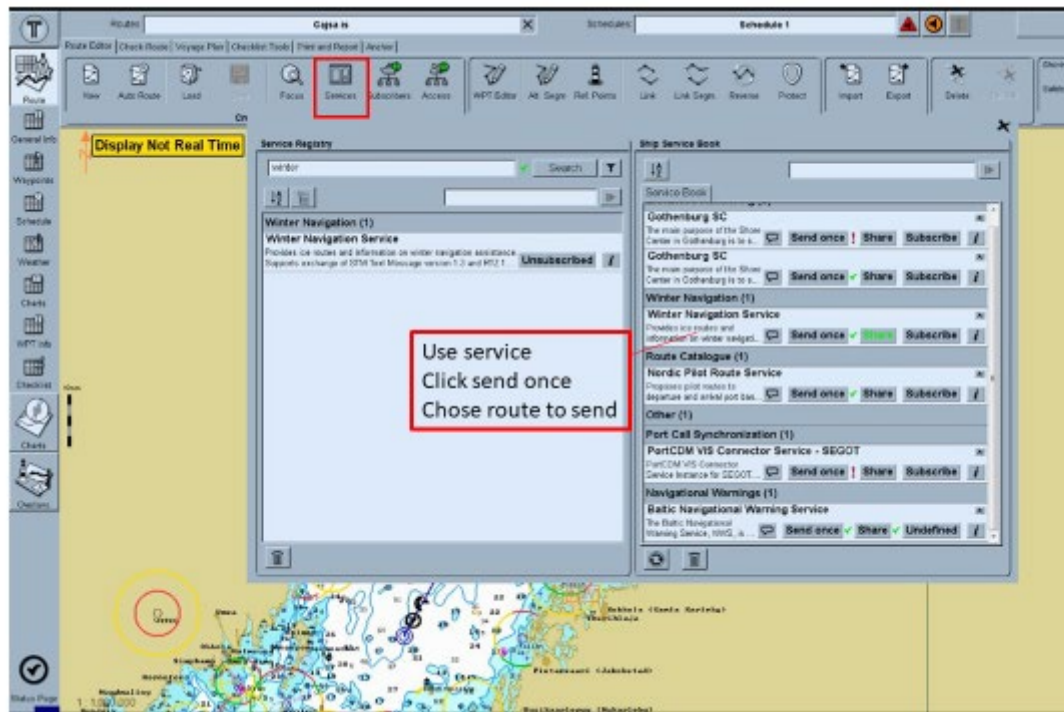


## To share voyage plan with Winter Navigation Service:

- Services
- First time, search for Winter and add the Winter Navigation to the Service Book.
- Find Winter Navigation Service on the left side. Press “Add to book”



- As you now have added WNS to your service book, it will now occur on the right hand side. (If it doesn't show, double click Winter Navigation)
- Press share once and chose the route you want to share.

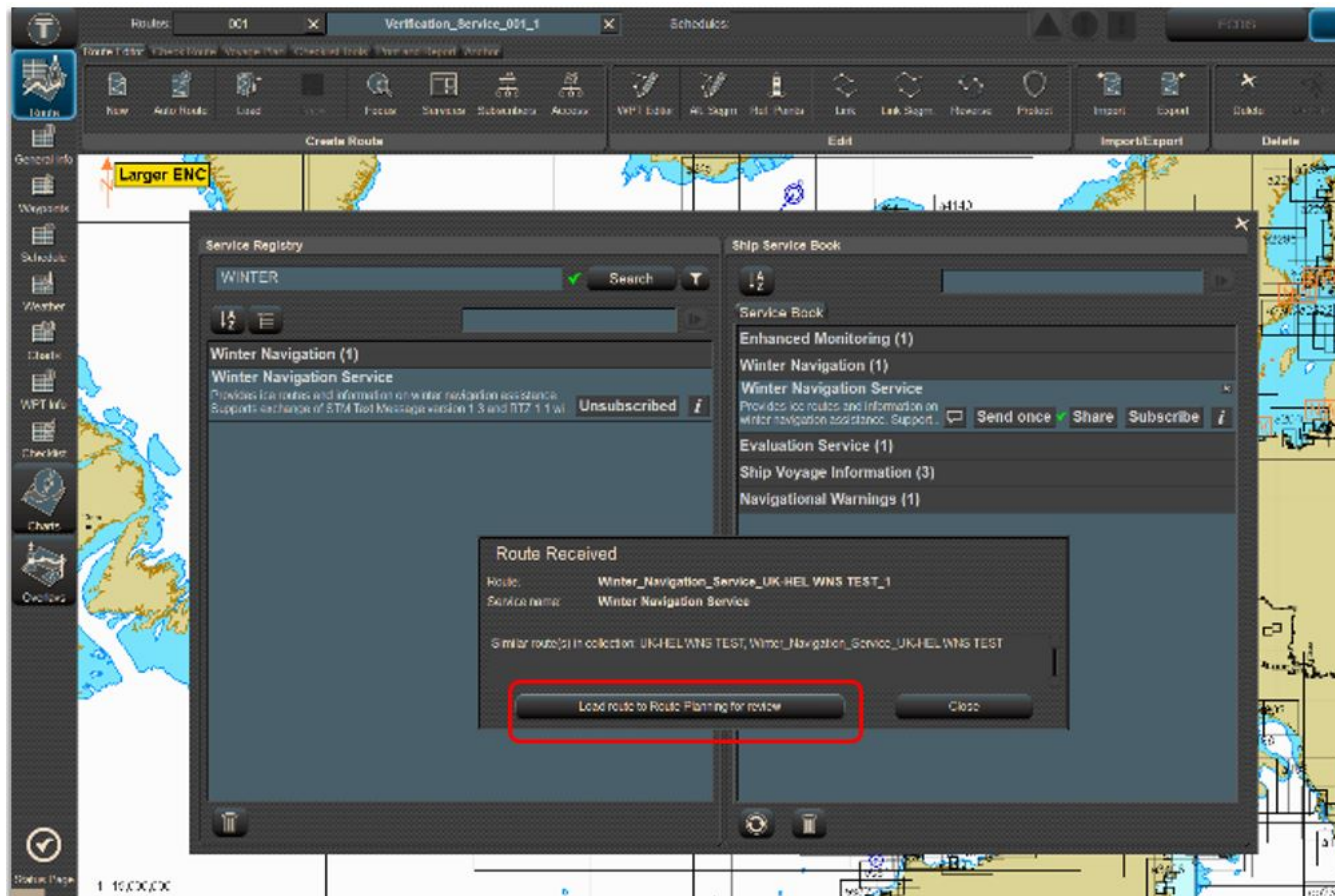


You have now done your bit and have to wait patiently for the route to be sent and then to receive the ice route.

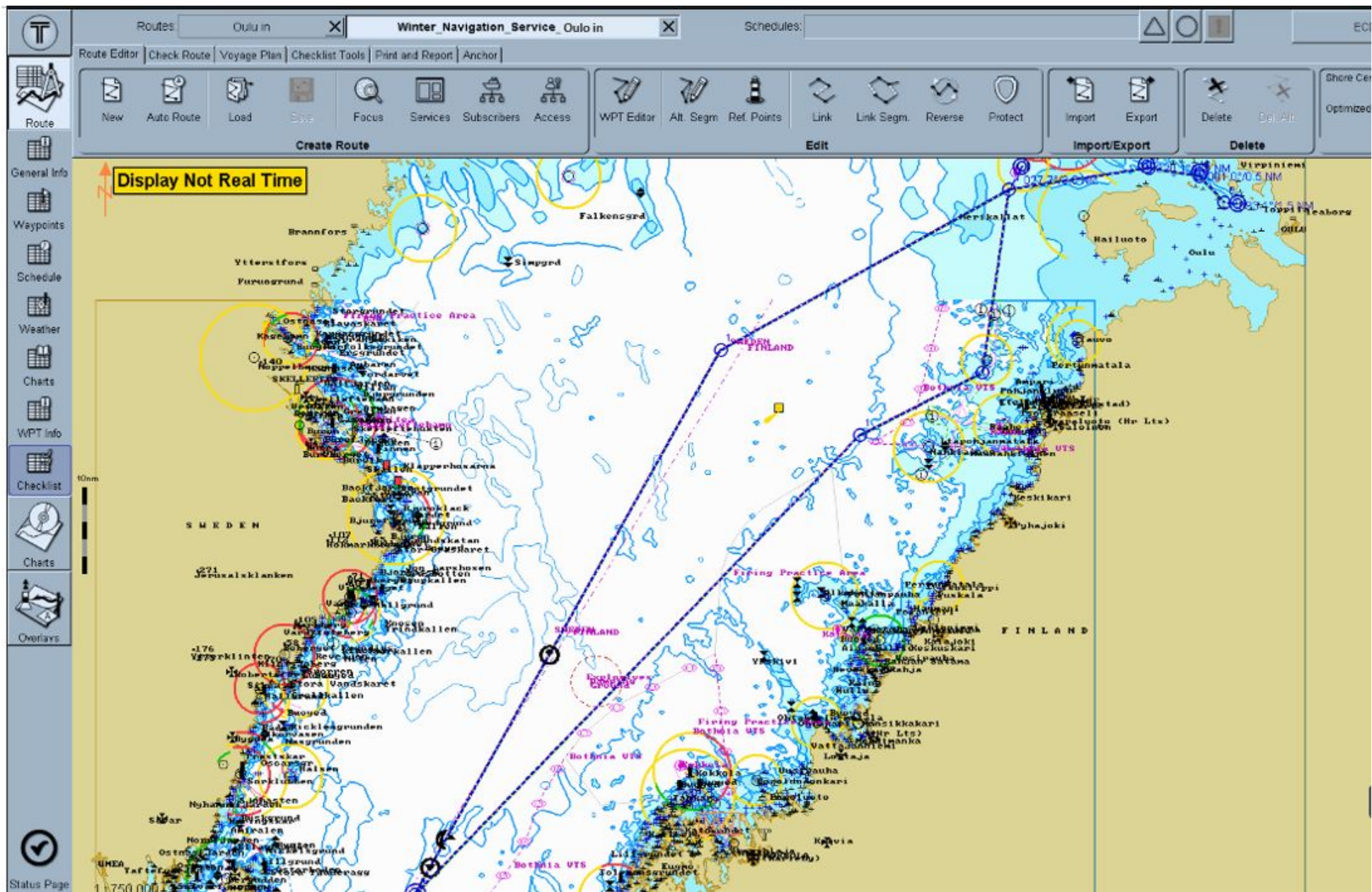


## To use the iceroute.

- When/if an ice route is received- click “Load route in planning for review”



You will now have the ice route displayed in your ECDIS, next to your own planned route.



- You may now choose what to do with the route received. Merge it with your route or just adjust your waypoints to fit the iceroute.  
*Have a safe voyage!*