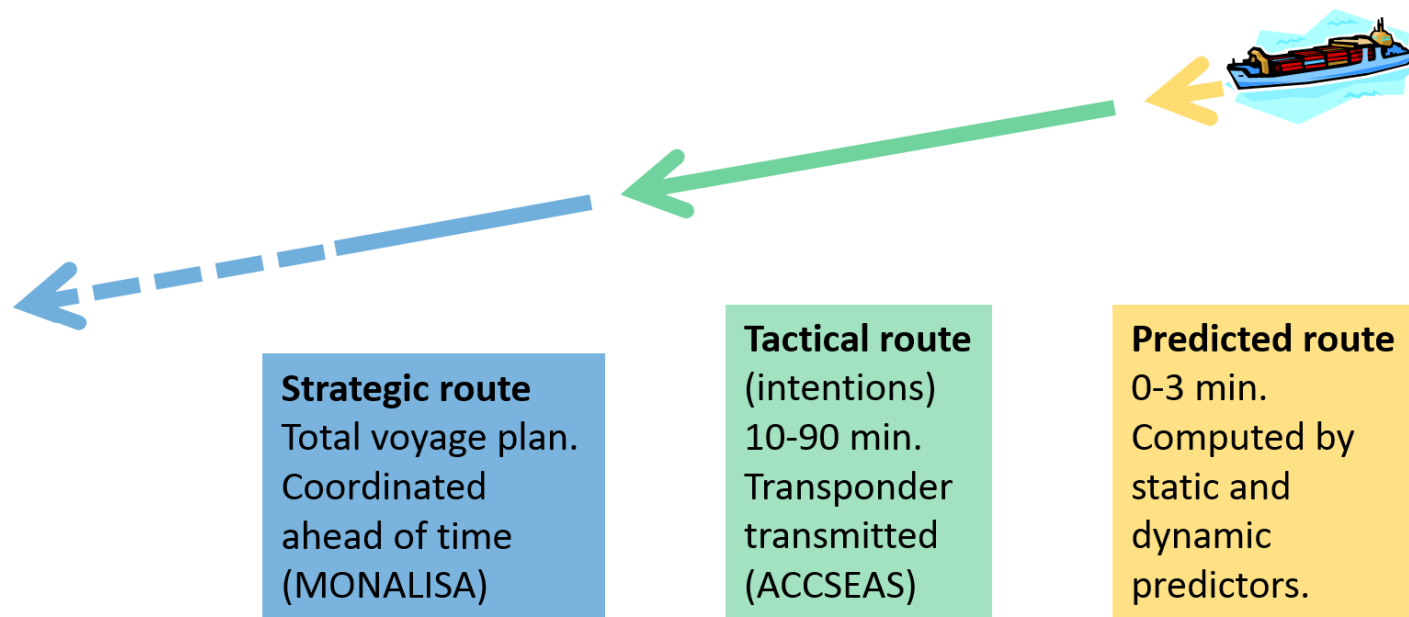
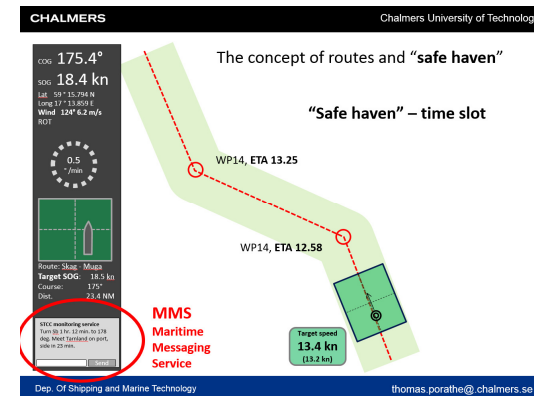
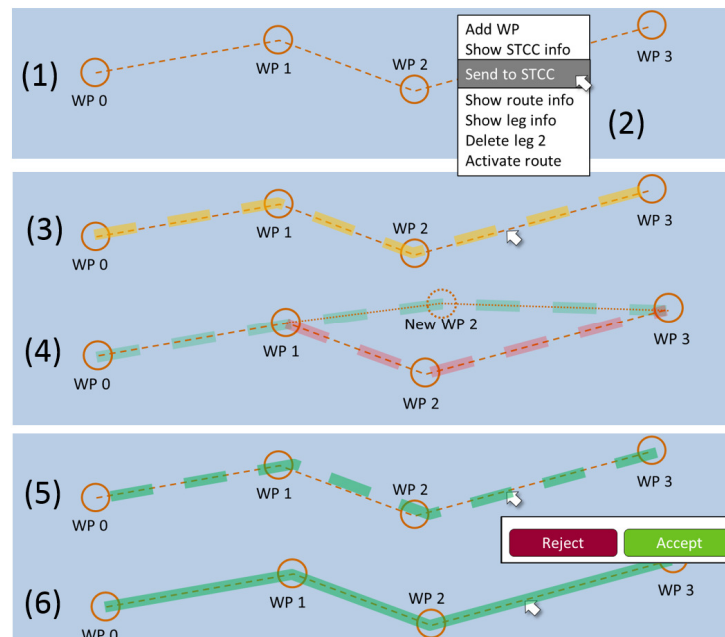
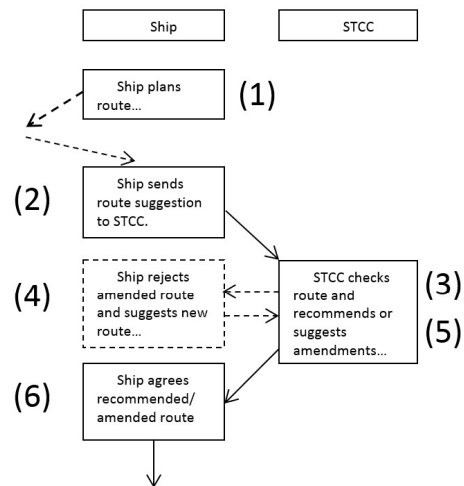


ACCSEAS testbed on tactical route exchange: Intended and Suggested routes, and NoGo Area services

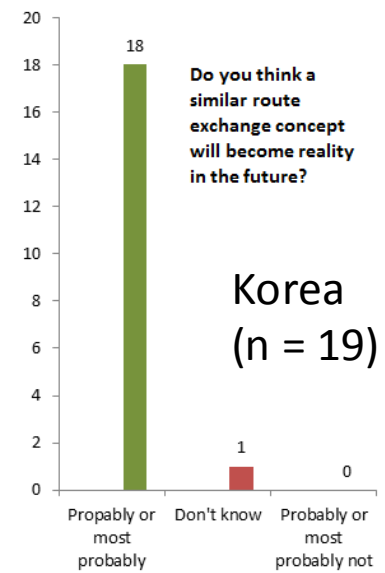
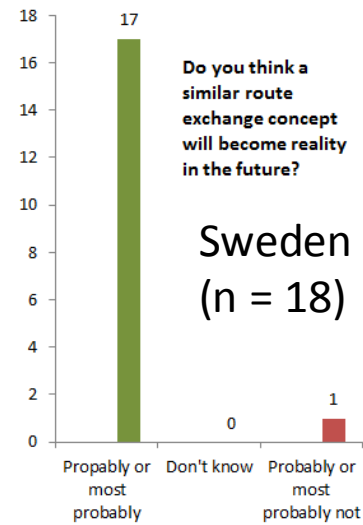
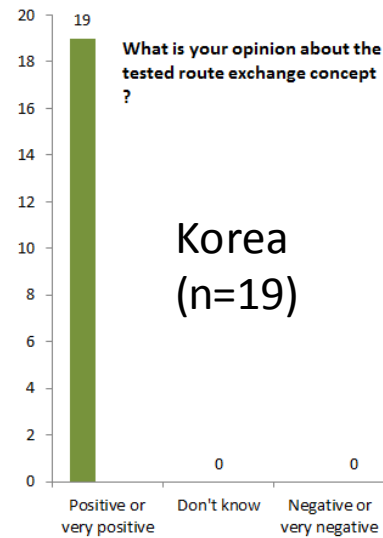
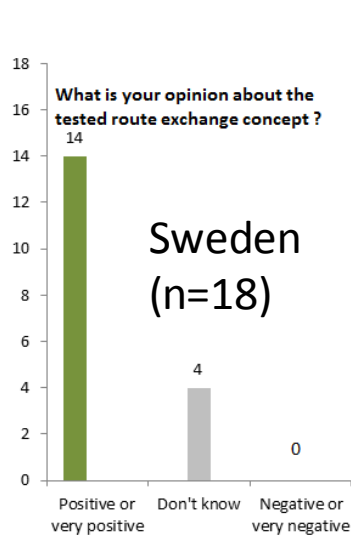
ACCSEAS simulations October 2014

Chalmers University of Technology, Sweden
(Flensburg University of Applied Science, Germany)





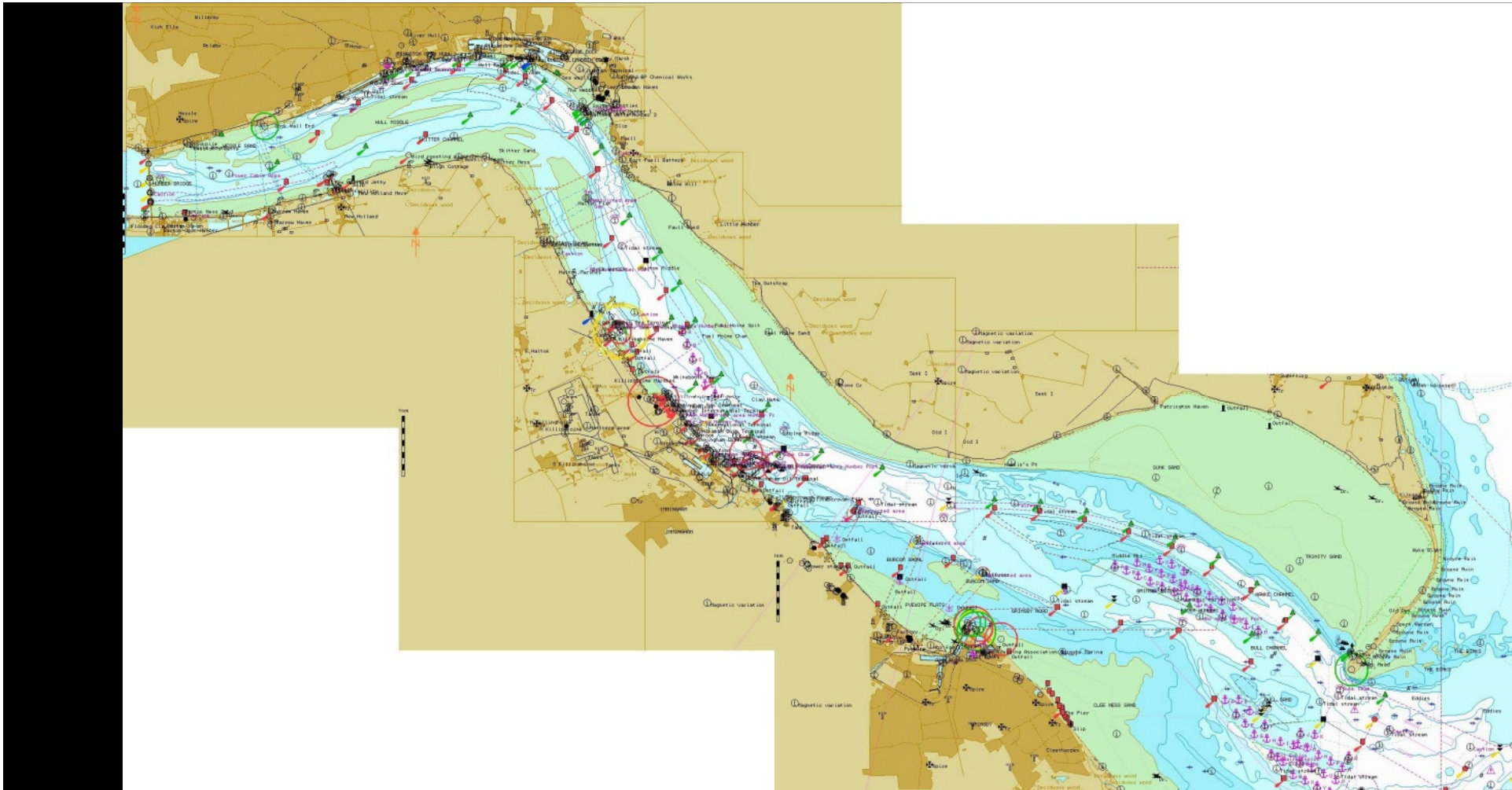
Questionnaire on “acceptance”

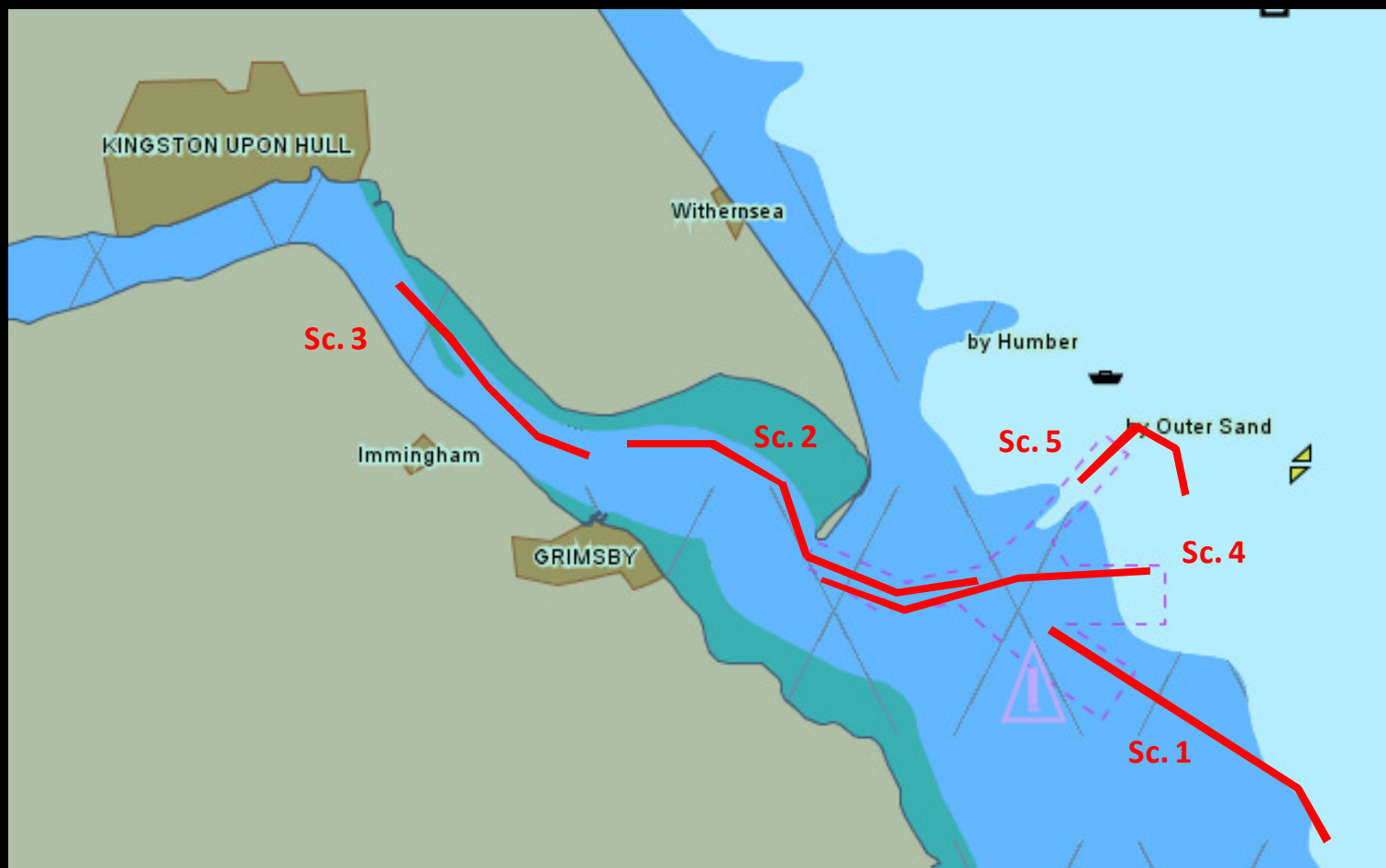


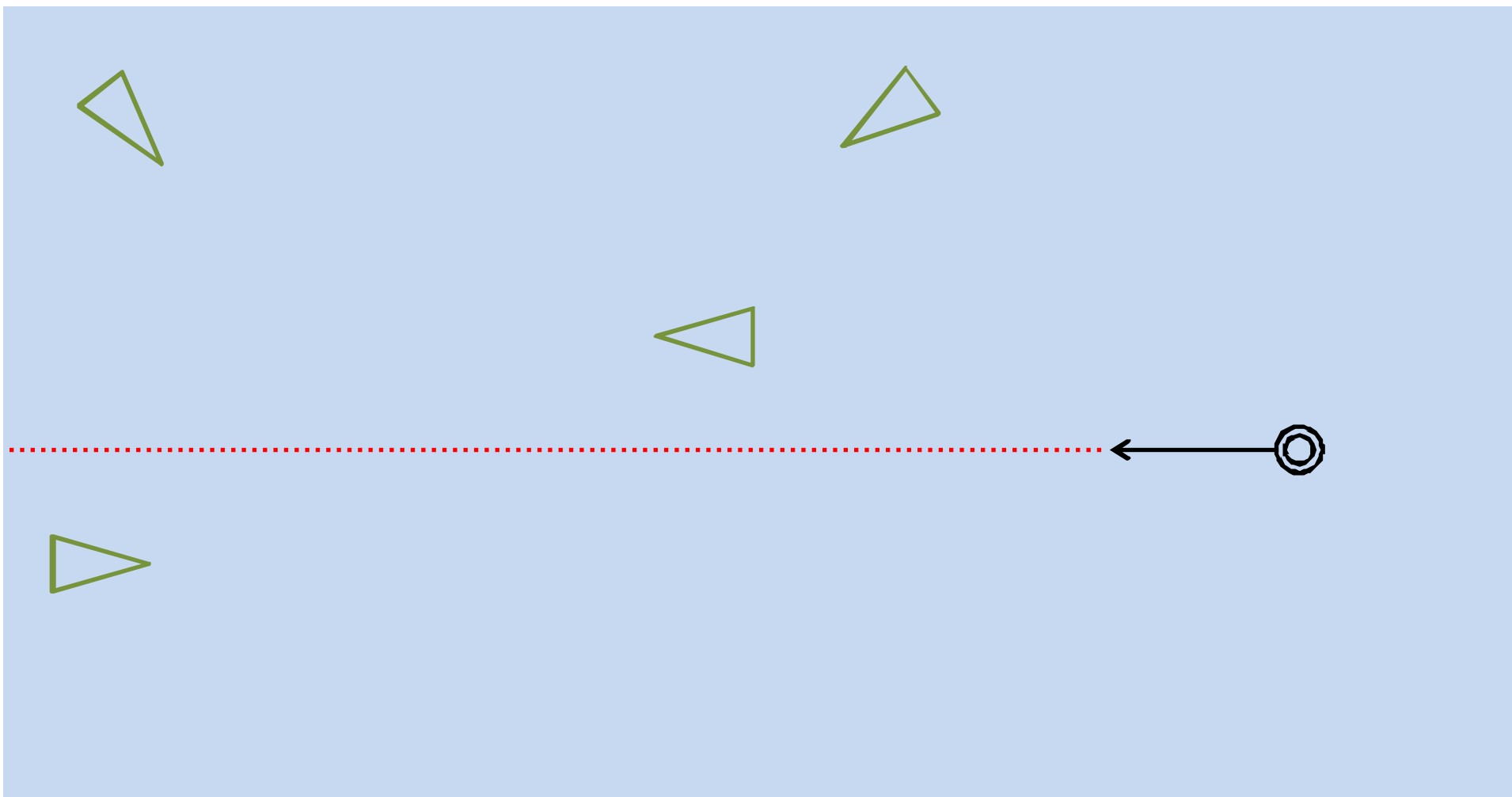
The Humber River (Immingham, Grimsby, Hull)
2 full mission ship handling simulators

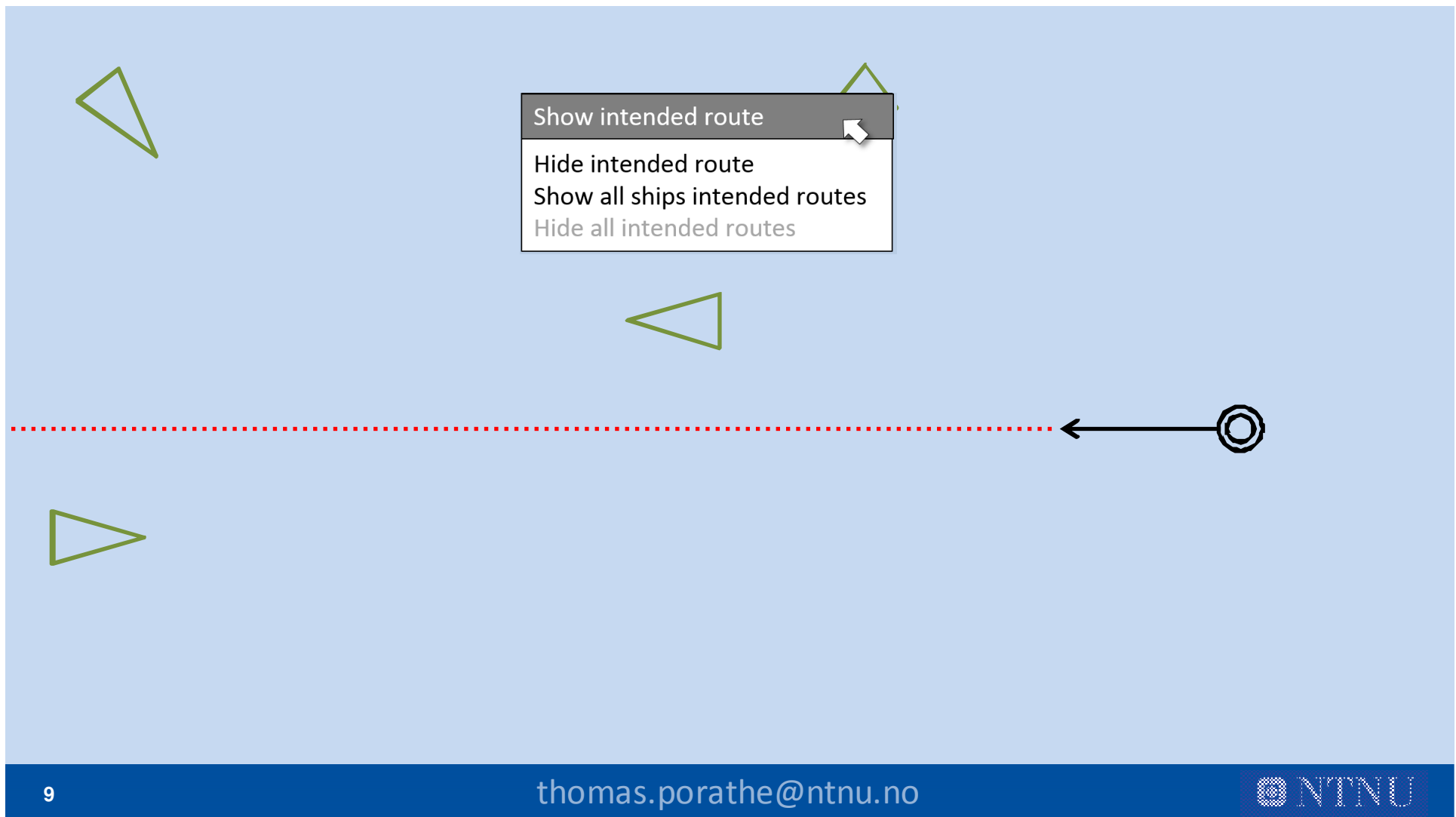
11 professional British, Swedish and Danish bridge officers, harbour master, pilots and VTS operators with experience from traffic in the Humber area participated in the test.

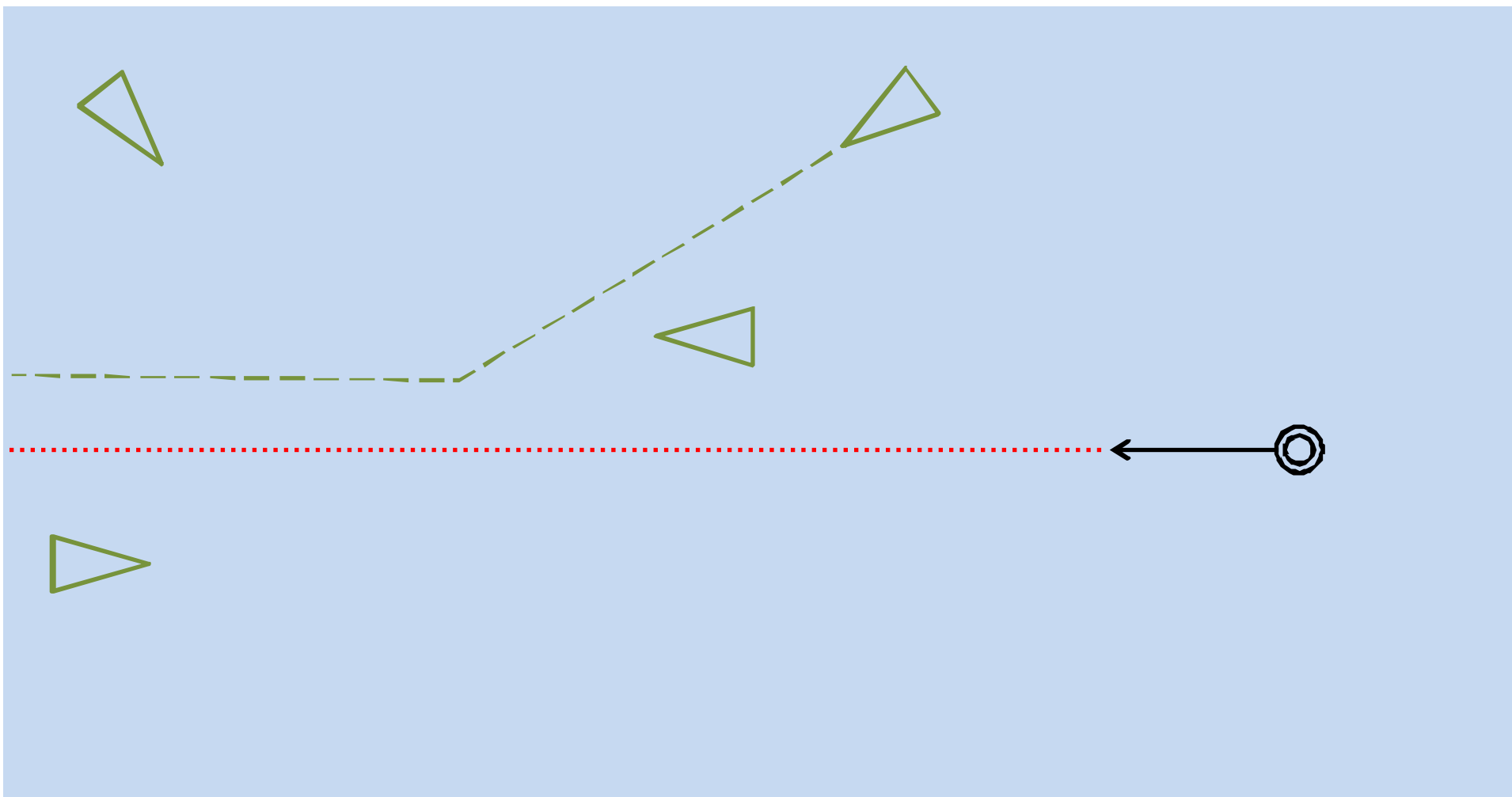


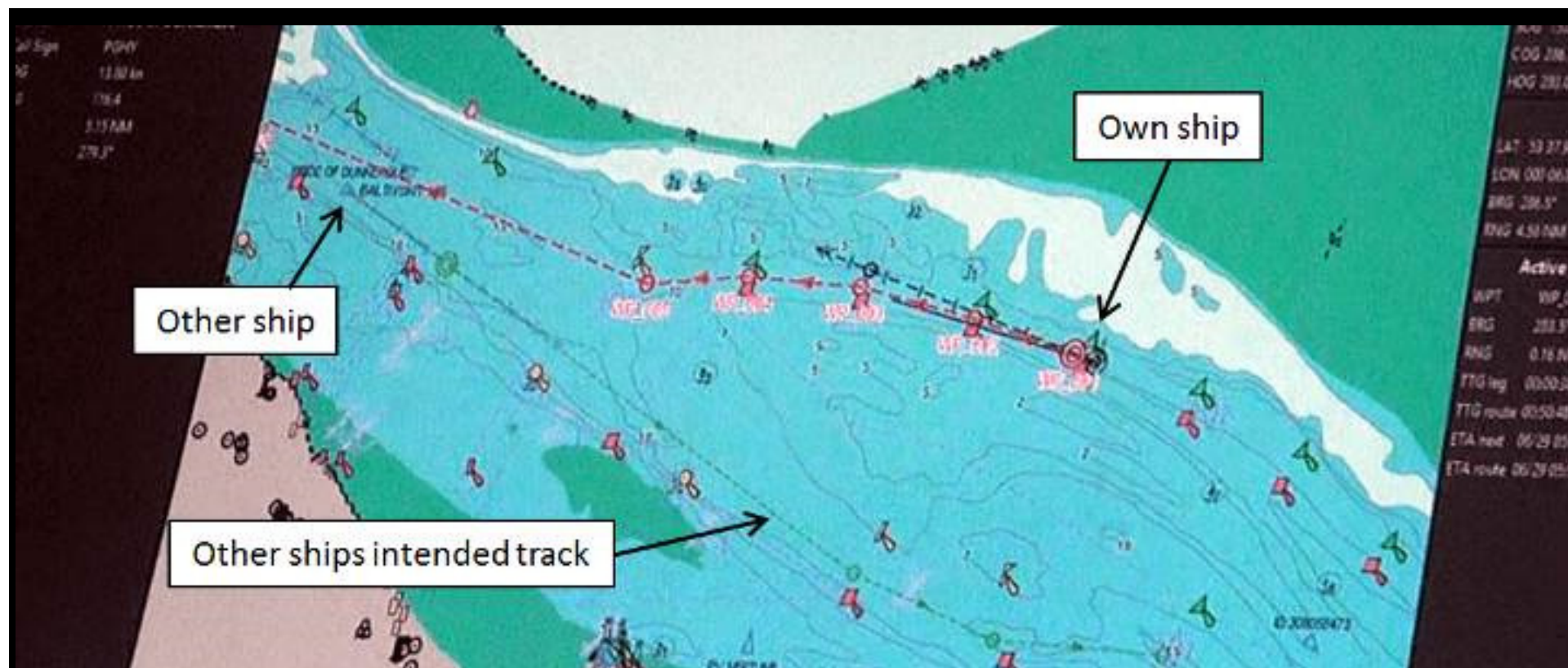


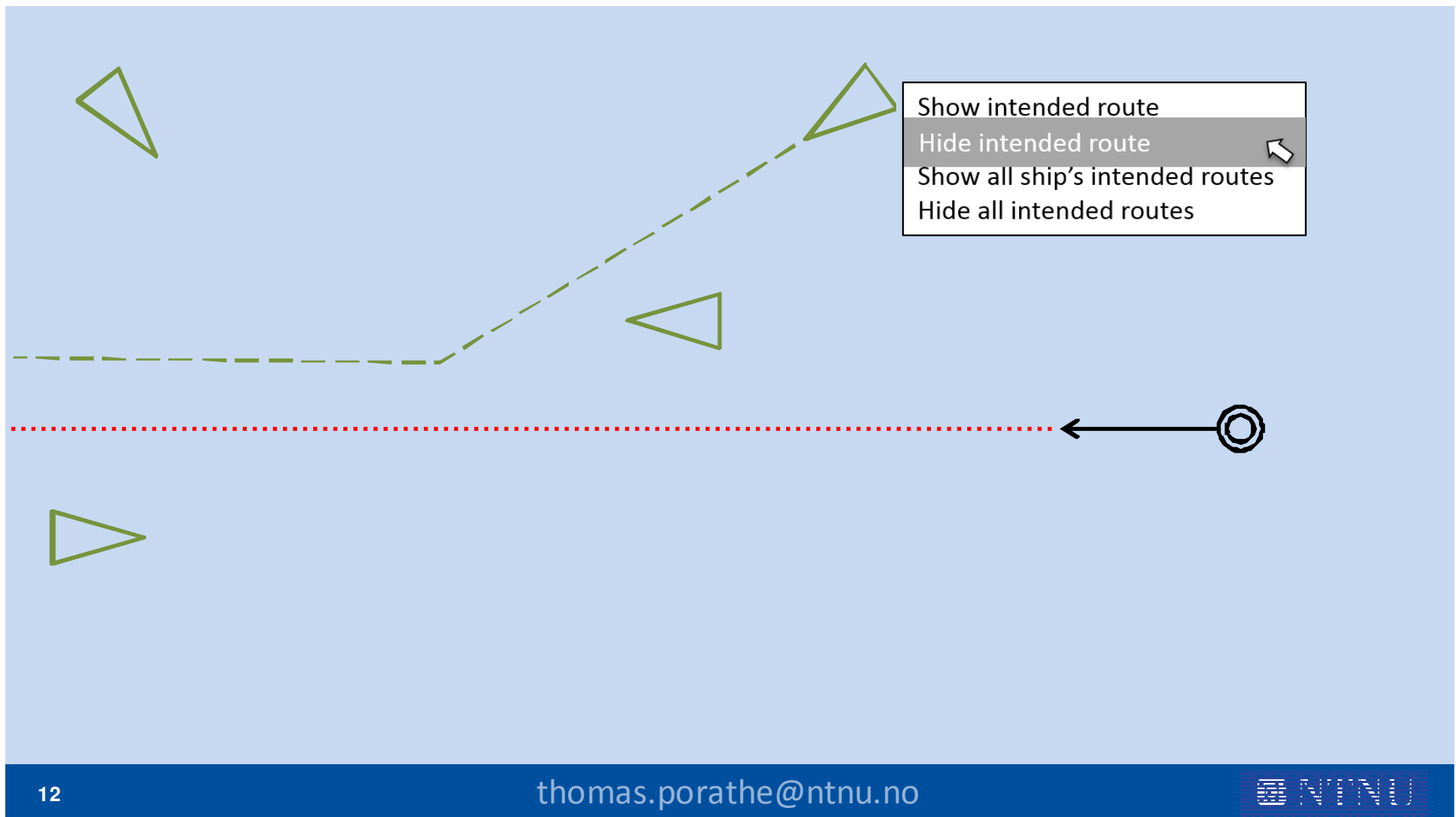


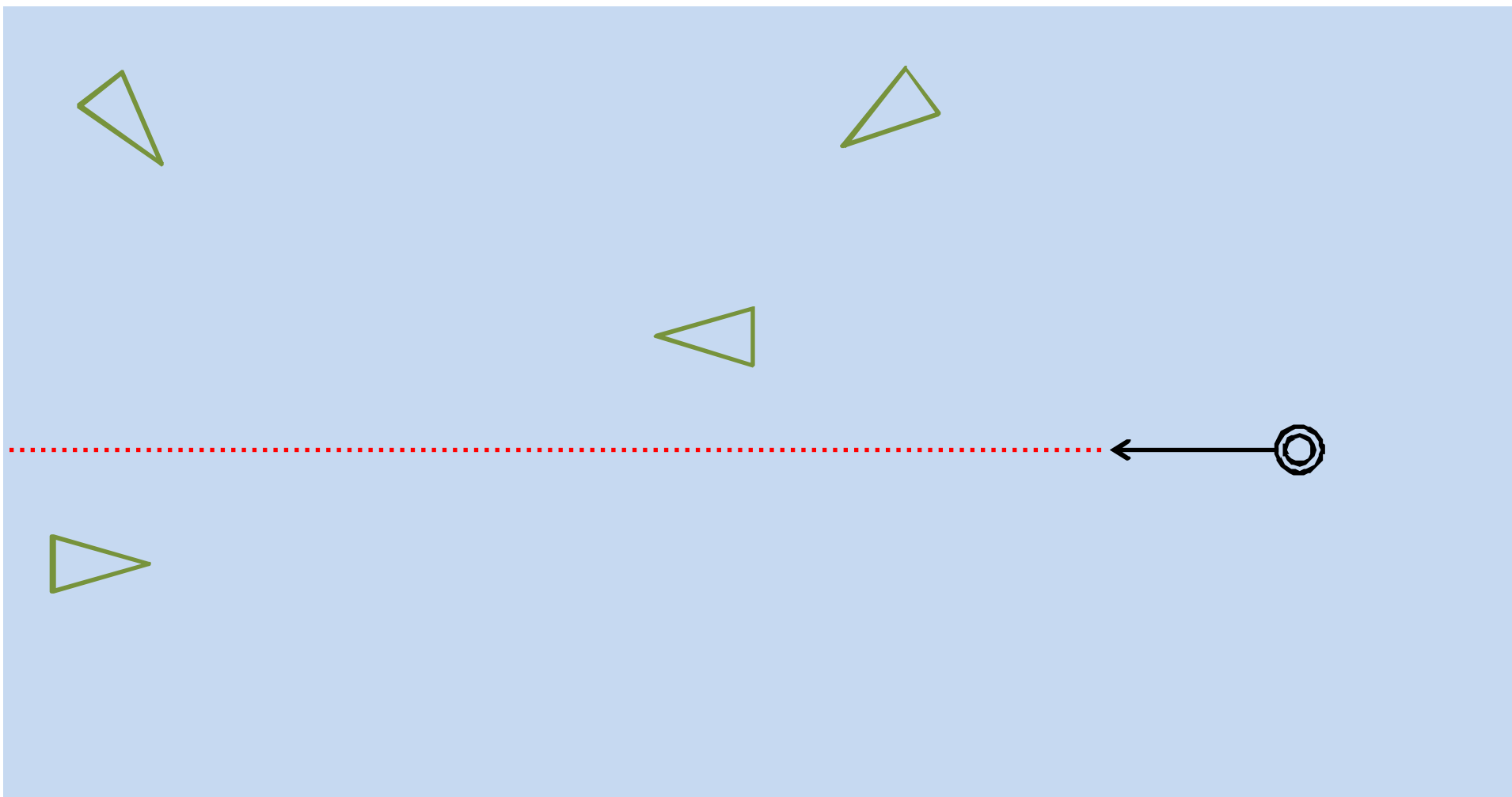


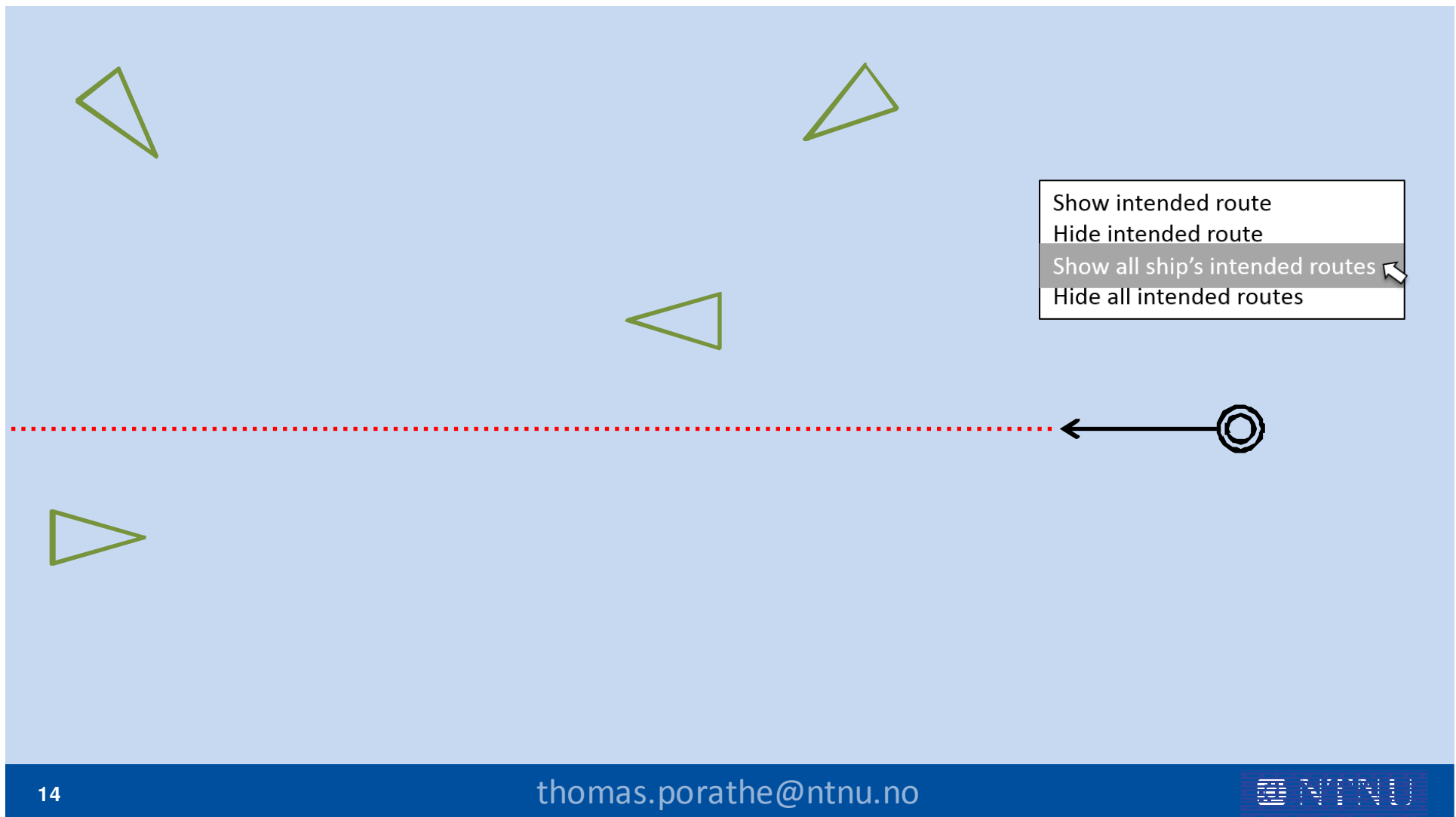


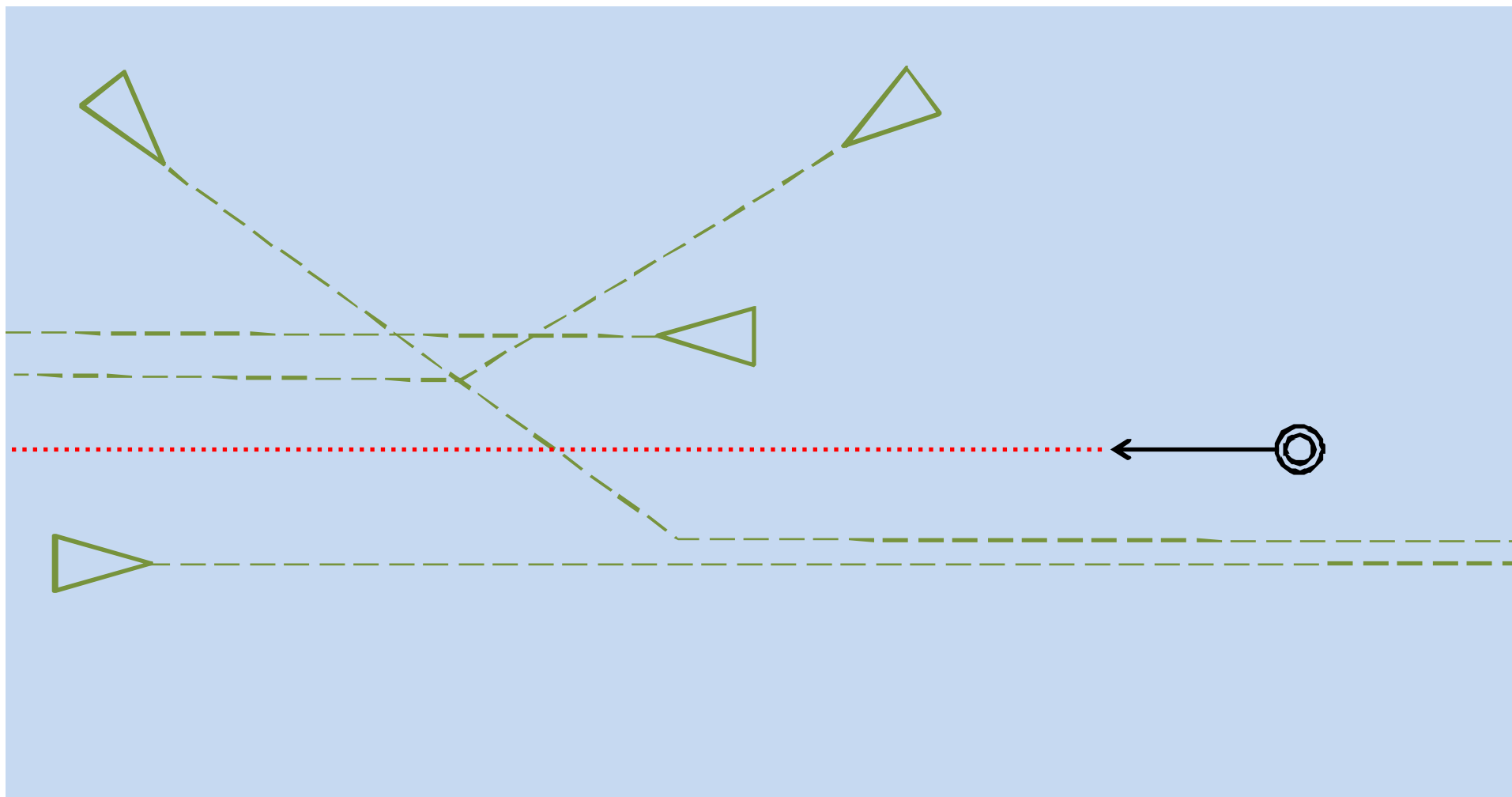


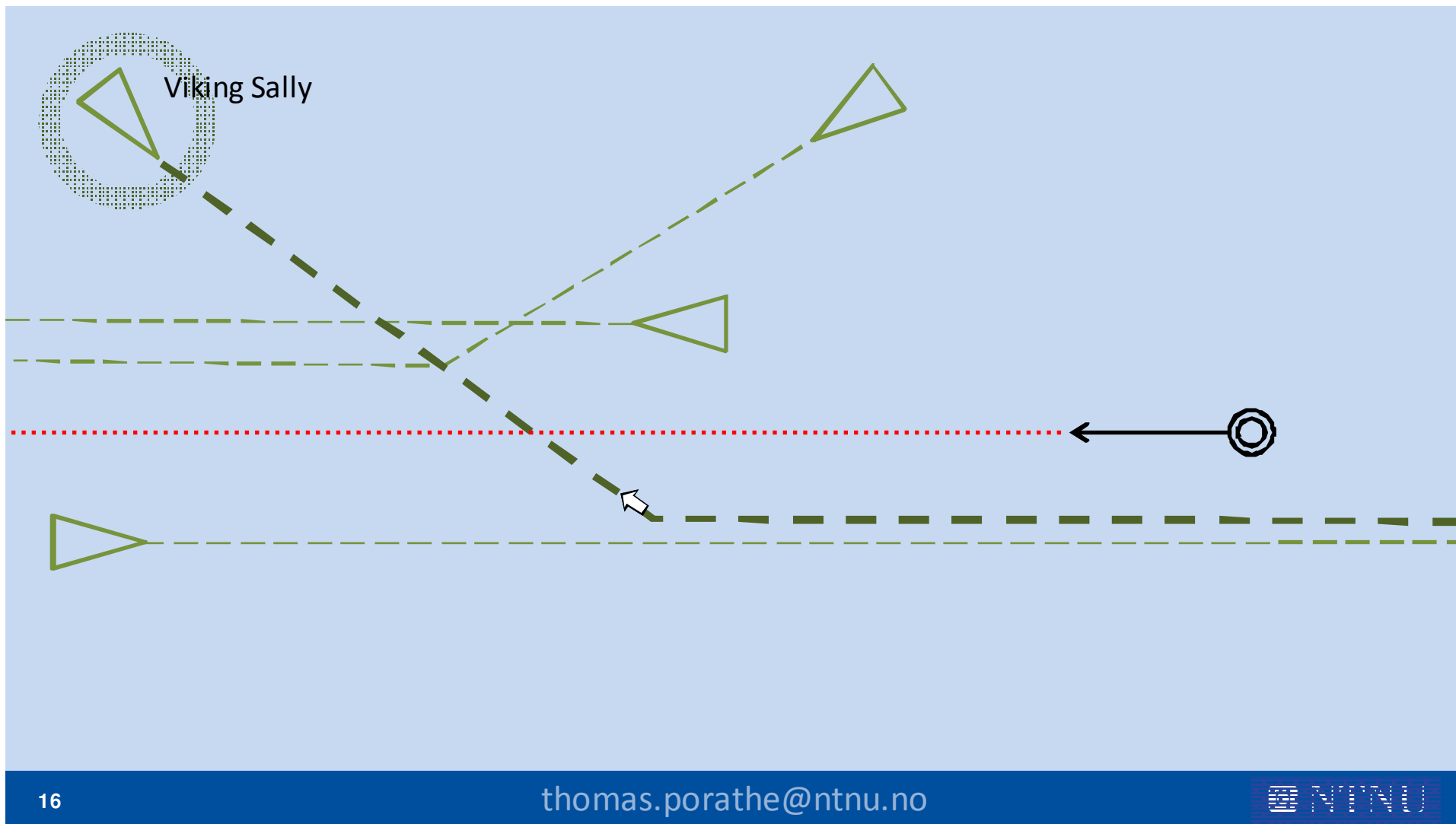


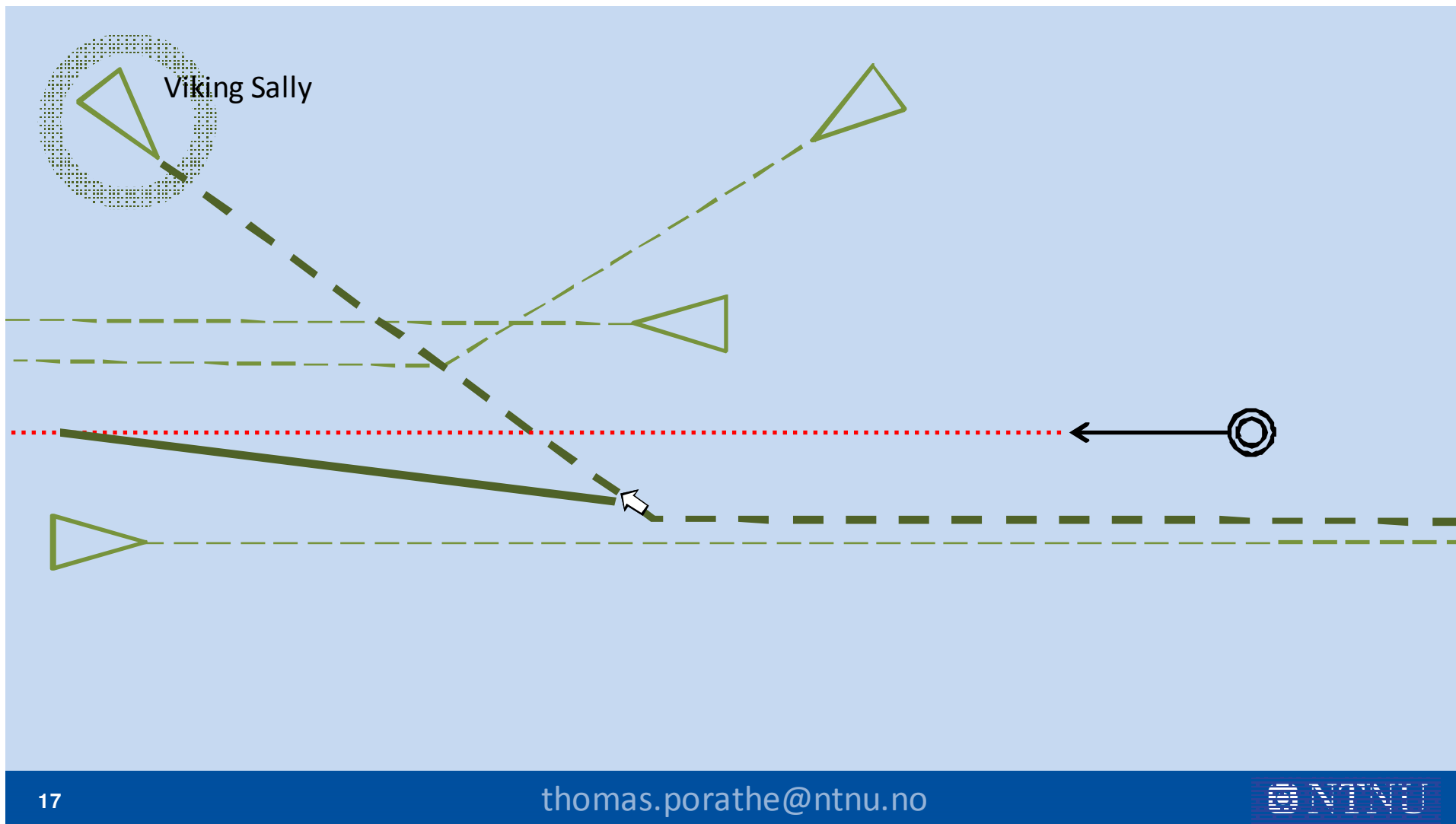


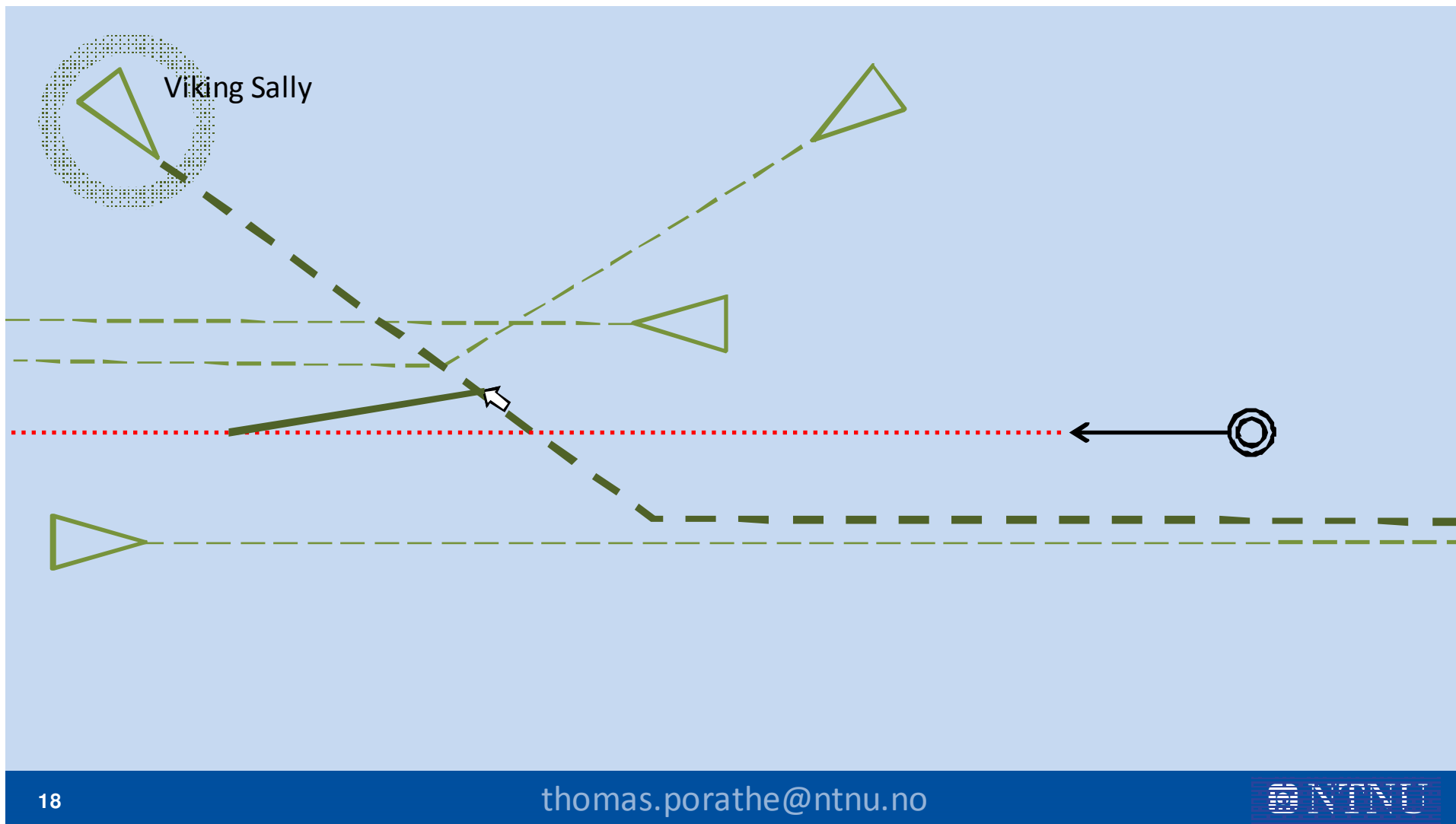


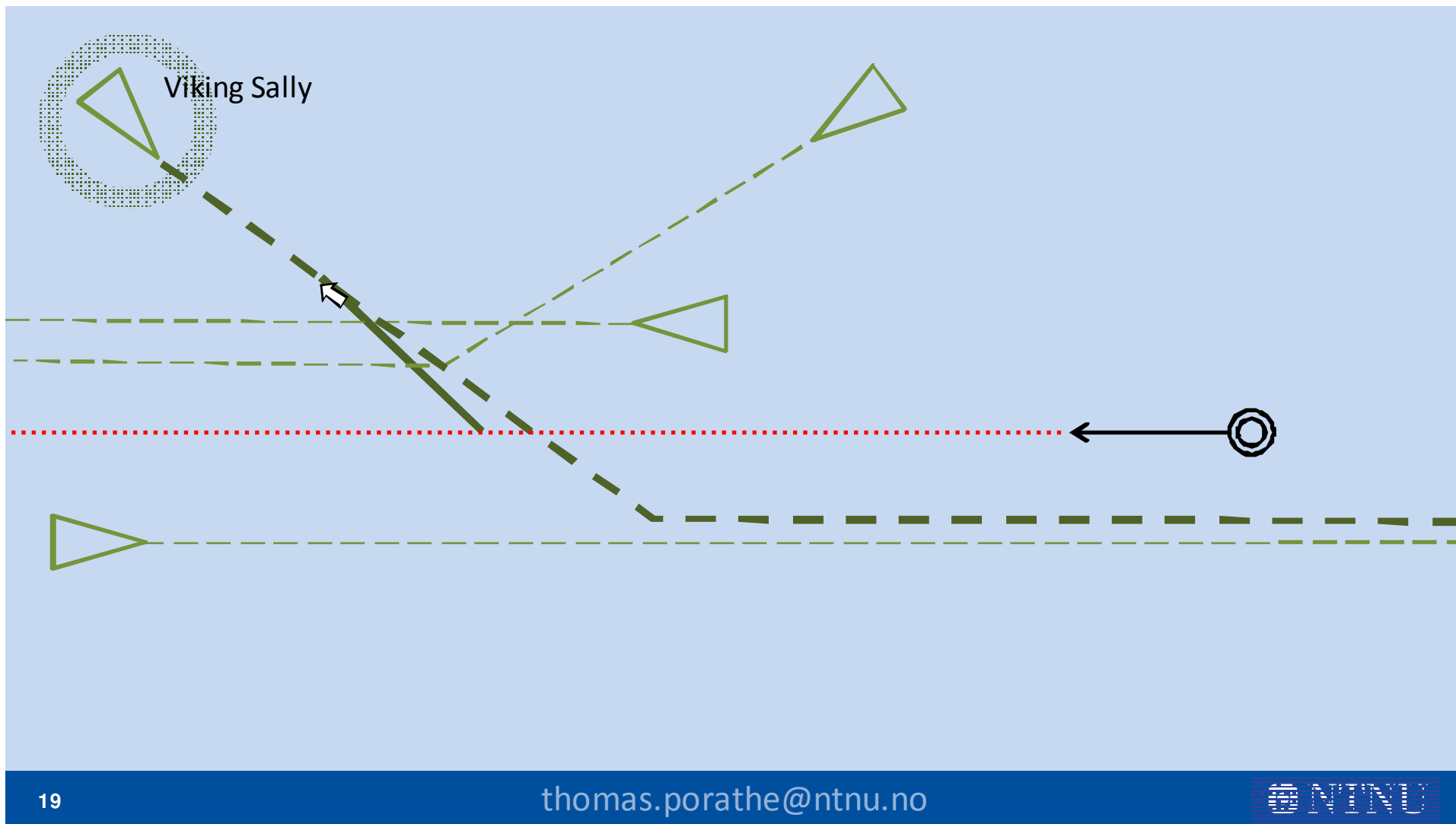




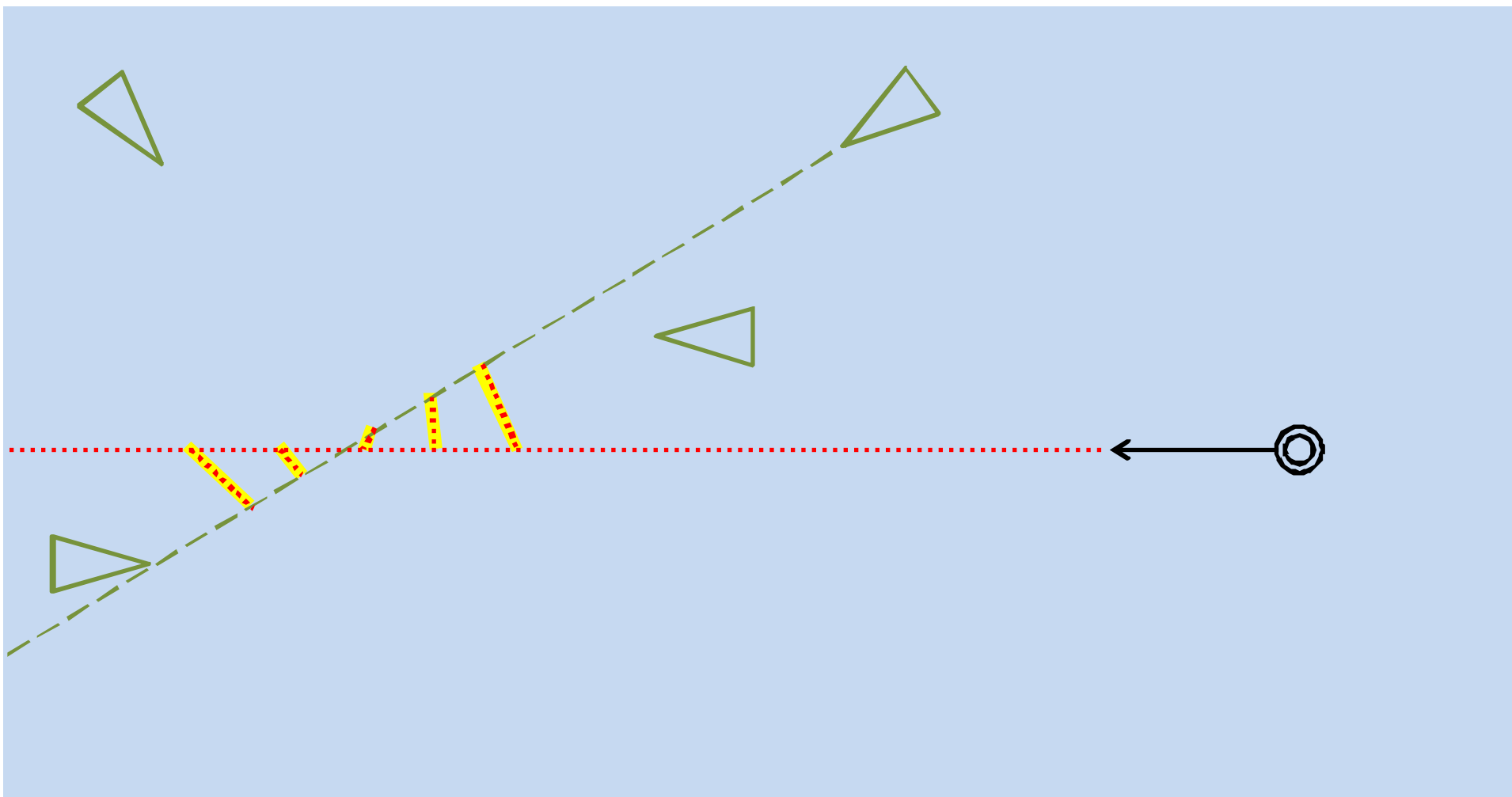


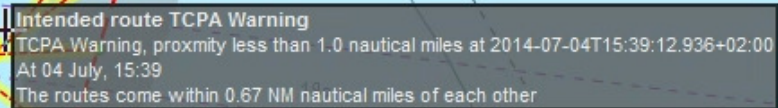












Intended route service

“I might not have said so three days ago, but now having used it: Yes, the concept is very good. Provided the data that is displayed is correct.”

(Humber pilot with 12 years' experience).

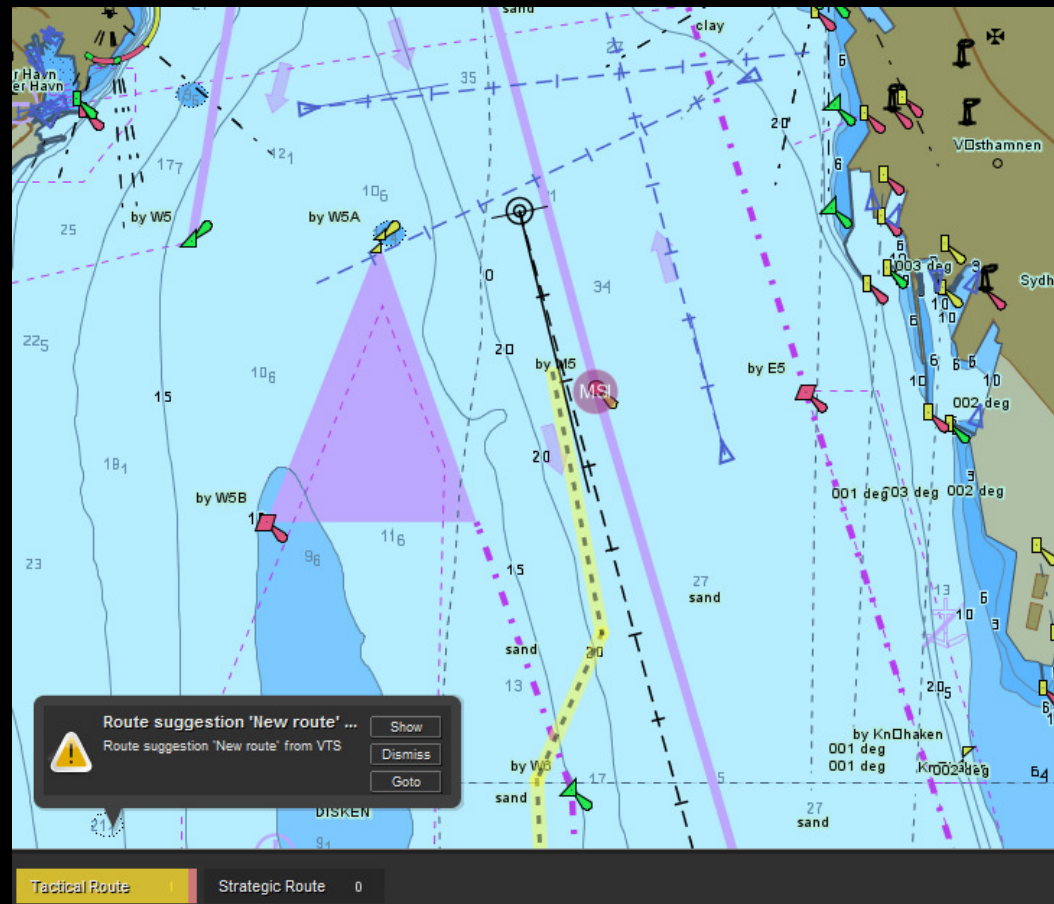
Intended route service

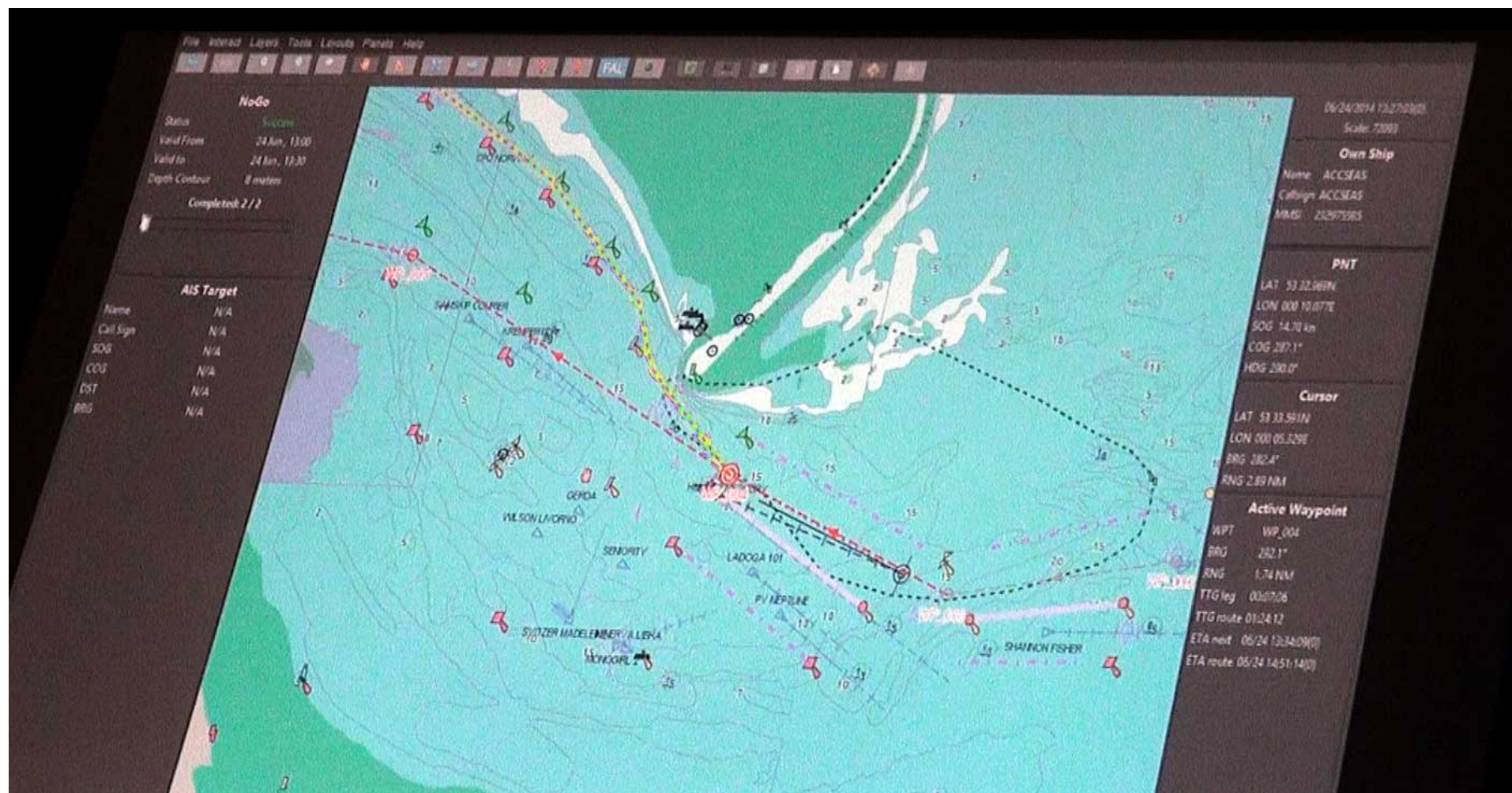
“I might not have said so three days ago, but now having used it: Yes, the concept is very good. Provided the data that is displayed is correct.”

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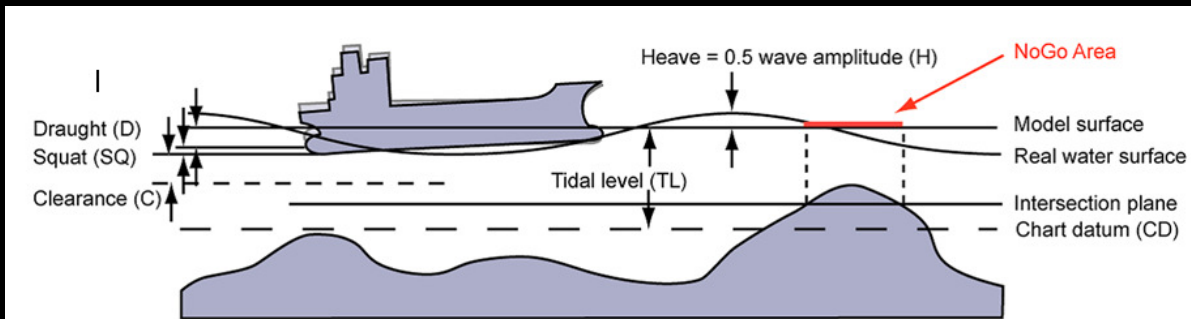
“After having used the system for six hours I find it annoying not being able to see ships' intentions.”

Route suggestion from shore-to-ship





NoGo Area service



$$\text{Depth of the intersection plane} = TL(t) - D(t) - SQ(v) - C - H(t)$$

Wanted UKC from vessel, based on:

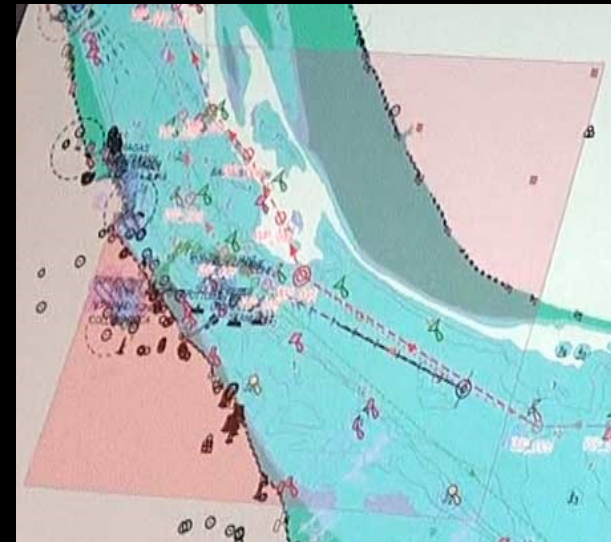
- Draught
- Squat
- Heave



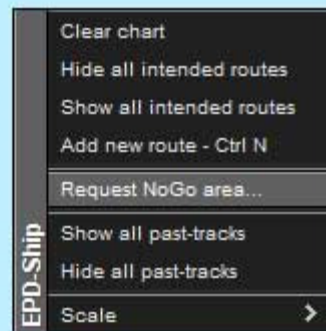
- Detailed bathymetry
- Tidal level
- Weather information



No-go areas



NoGo Area service



Request Nogo

Nogo Request:

Area Selection

Select the area you want to request NoGo for

Select Area

Time Selected

NoGo valid between:

11:00-14-12-14

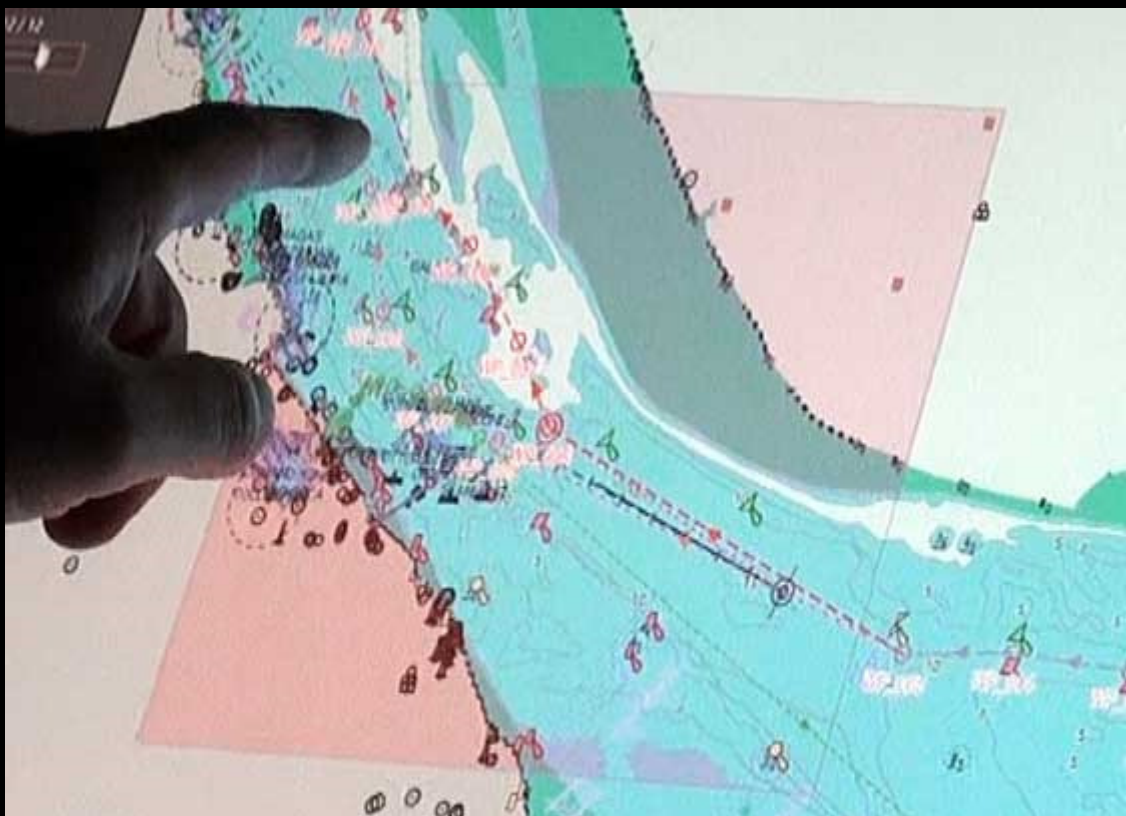
15:00-14-12-14

Depth

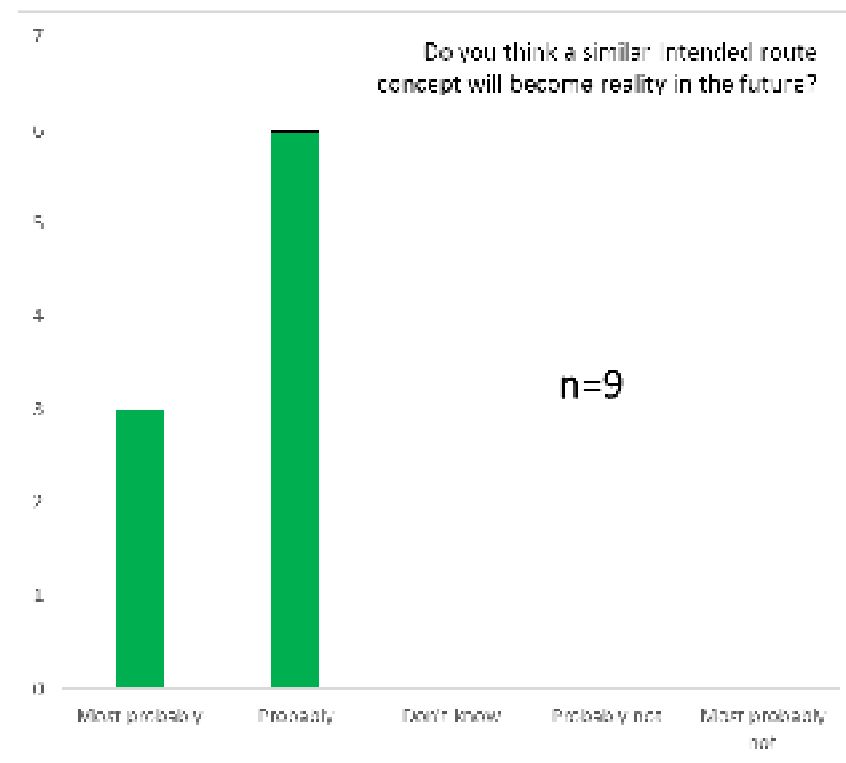
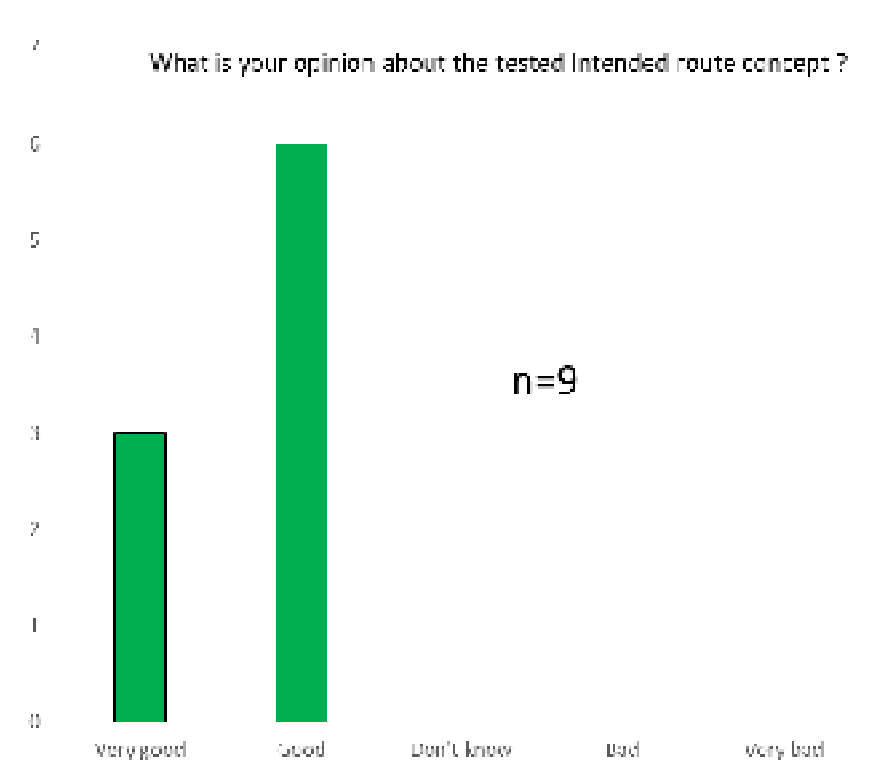
Current depth in meters: 3,5

Request NoGo Cancel

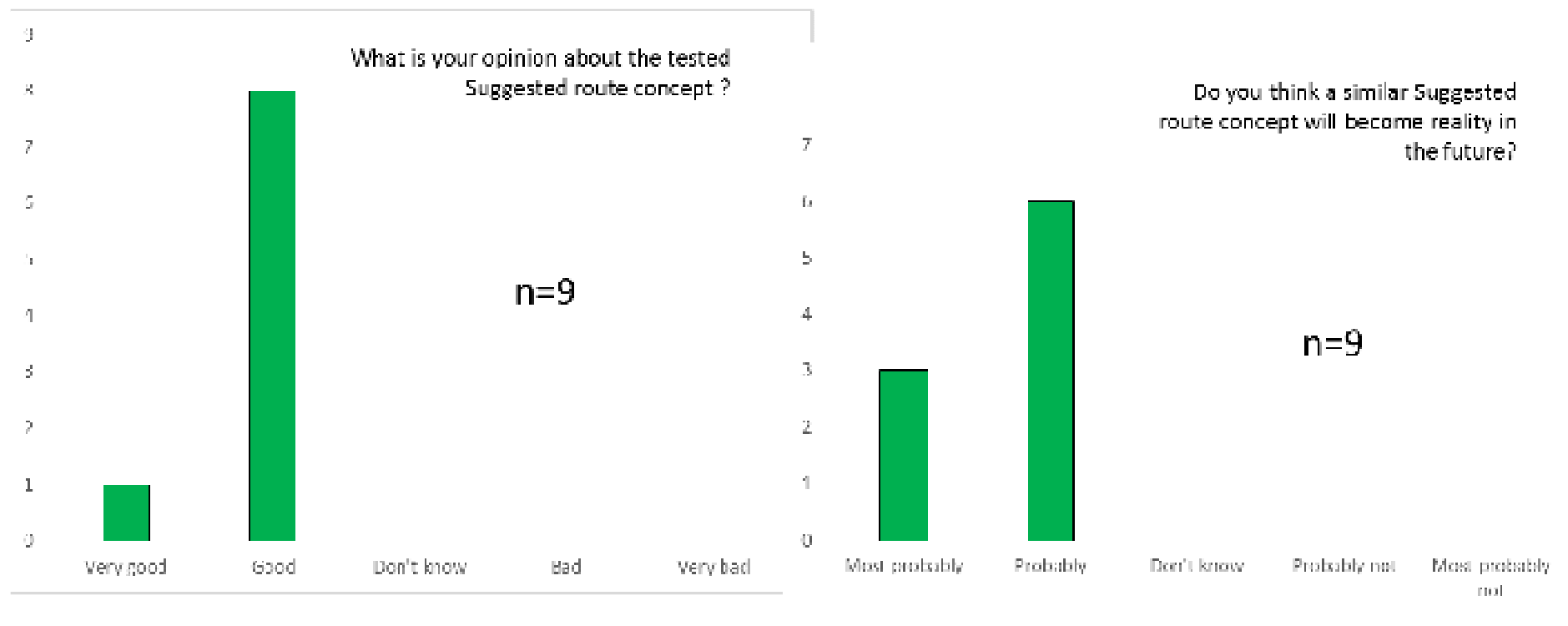
NoGo Area service

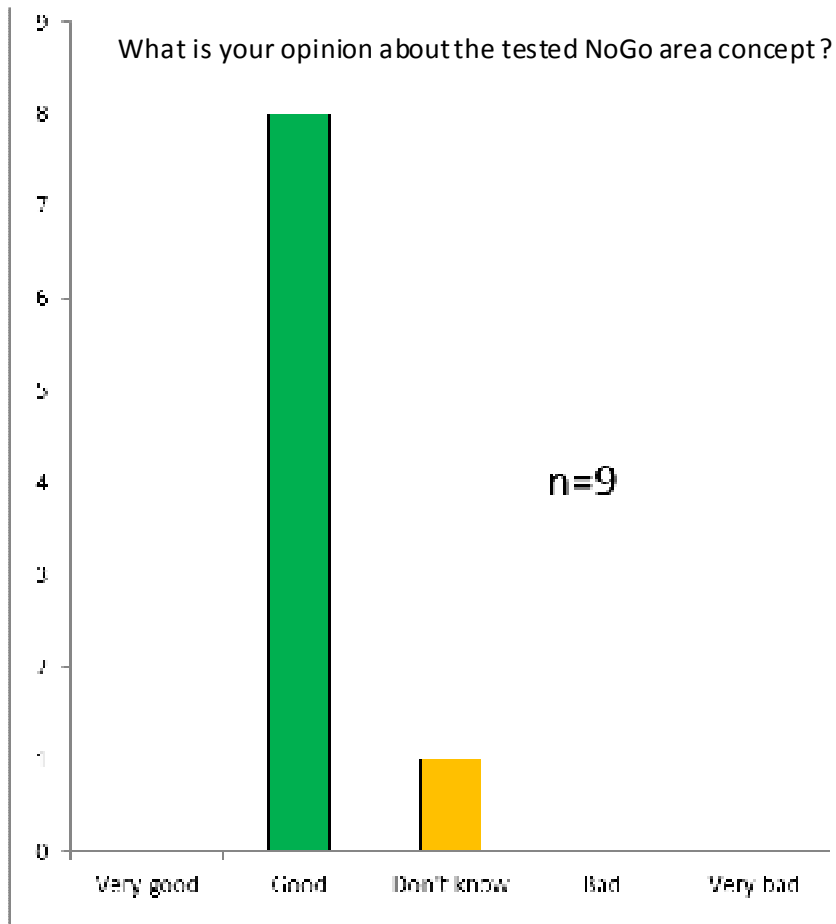


Results from the survey of Intended route service

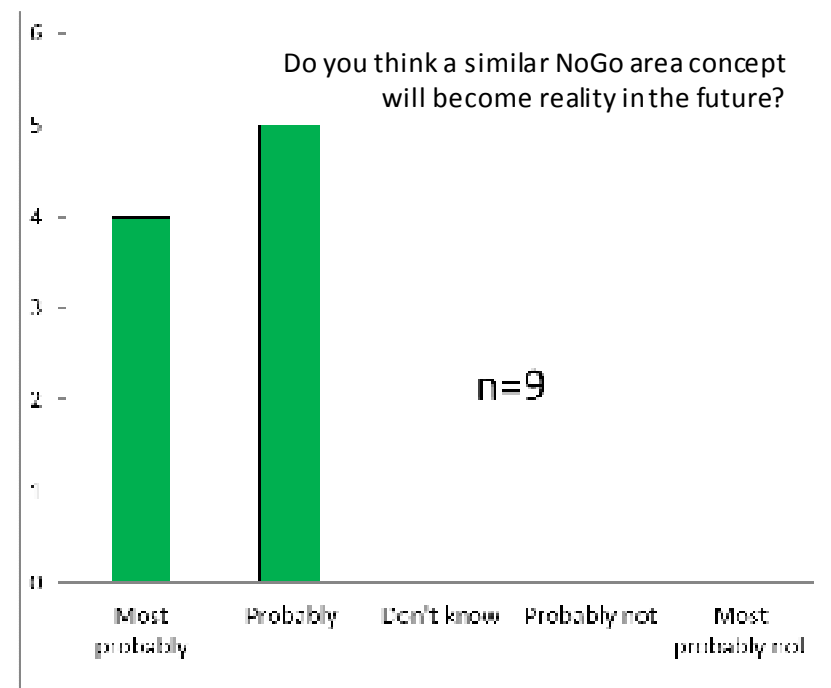


Results from the survey of Suggested route service





Results from the survey of The NoGo Area service



Professional Acceptance Rating Scale

What is your professional opinion about the Intended route service tested? (Put an X in the box which best fits your opinion)

Check one box	Scale value	Scale name	Description
☐	0	Totally unacceptable	I think this is a very bad idea. Definitely not.
☐	1	Not very acceptable	Not a good idea. Best let it be.
☐	2	Neither for, nor against	I am neutral.
☐	3	Acceptable	Good idea. I am for it.
☐	4	Very acceptable	I think this is a very good idea. I am definitely for it
☐	5	Extremely acceptable	One of the best ideas I have heard of. (Even regular users would seldom give this score.)

Mean acceptance score:

3.7

Professional Acceptance Rating Scale

What is your professional opinion about the Suggested route service tested? (Put an X in the box which best fits your opinion)

Check one box	Scale value	Scale name	Description
2 7	0	Totally unacceptable	I think this is a very bad idea. Definitely not.
	1	Not very acceptable	Not a good idea. Best let it be.
	2	Neither for, nor against	I am neutral.
	3	Acceptable	Good idea. I am for it.
	4	Very acceptable	I think this is a very good idea. I am definitely for it
	5	Extremely acceptable	One of the best ideas I have heard of. (Even regular users would seldom give this score.)

Mean acceptance score:

3.8

Professional Acceptance Rating Scale

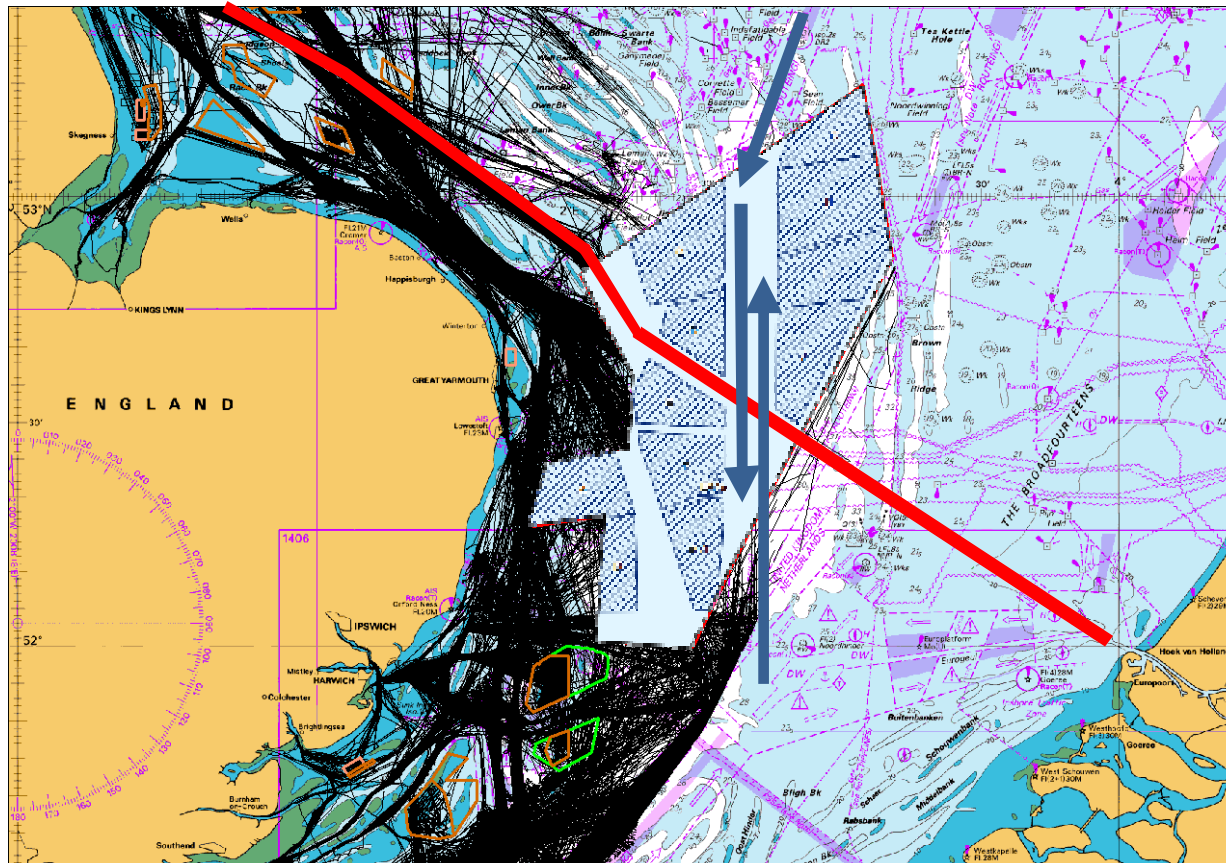
What is your professional opinion about the NoGo Area service tested? (Put an X in the box which best fits your opinion)

Check one box	Scale value	Scale name	Description
☐	0	Totally unacceptable	I think this is a very bad idea. Definitely not.
☐	1	Not very acceptable	Not a good idea. Best let it be.
☒	2	Neither for, nor against	I am neutral.
☐	3	Acceptable	Good idea. I am for it.
☐	4	Very acceptable	I think this is a very good idea. I am definitely for it
☐	5	Extremely acceptable	One of the best ideas I have heard of. (Even regular users would seldom give this score.)

Mean acceptance score:

3.3

Flensburg simulator study (East Anglia future wind mill park)



Flensburg simulator study (East Anglia future wind mill park)

Professional Acceptance Rating Scale

What is your professional opinion about the system tested? (Put an X in the box which best fits your opinion)

Check one box	Scale value	Scale name	Description
☐	0	Totally unacceptable	I think this is a very bad idea. Definitely not.
☐	1	Not very acceptable	Not a good idea. Best let it be.
13 5	2	Neither for, nor against	I am neutral.
	3	Acceptable	Good idea. I am for it.
	4	Very acceptable	I think this is a very good idea. I am definitely for it
☐	5	Extremely acceptable	One of the best ideas I have heard of. (Even regular users would seldom give this score.)

Mean acceptance score:

3.3