



REPUBLIC OF ESTONIA
TRANSPORT ADMINISTRATION

Sailing Directions for Estonian Waters

part 2 Väinameri

2.1 S part of Väinameri

Updated 01.10.2024

© Estonian Transport Administration
Cartography Department

Third release February 2015

Copies of aerial photographs Estonian Land Board are used in this publication

Links to aerial panoramas www.estonia360.ee/sadamad/ of Joel Tammet are used in this publication

Sailing Directions for Estonian Waters is updated in compliance with navigational information, once a month
homepage: <https://transpordiamet.ee/en/sailing-directions>



VERTICAL REFERENCE SYSTEM

the depths in the Sailing Directions are given with reference to the 1977 Baltic Height System BHS-77, i.e. the Kronstadt Gauge Peil, unless otherwise indicated (BSCD2000^{EH2000})

from January 2018, the transition to the Baltic Sea Chart Datum 2000^{EH2000} (EVRS), i.e. the Normal Amsterdam Peil, began

www.transpordiamet.ee/en/height-system-eh2000

NAVIGATIONAL INFORMATION

Web application Nutimeri

<https://gis.vta.ee/nutimeri/>

Fairway route points:

<https://www.transpordiamet.ee/en/sailing-directions>

Tallinn Radio, VHF 1, 3, 5, 7, 20, 62, 64, 66 and MF 3310 kHz at 02.33, 06.33, 10.33, 14.33, 18.33, 22.33 UTC

Local navigational warnings:

<https://gis.vta.ee/navhoiatused/en.html>

NAVTEX

station: Tallinn

symbol: F

frequency: 518 kHz

transmission times 00:50, 04:50, 08:50, 12:50, 16:50, 20:50 UTC

www-o.sjofartsverket.se/en/Maritime-services/Maritime-Traffic-Information/Navigational-Warnings/NAVTEX/

Notices to Mariners:

<https://transpordiamet.ee/NtM>

List of Lights, Estonia:

<https://transpordiamet.ee/listoflights>

Winter navigation:

<https://transpordiamet.ee/en/winter-navigation>

due to the use of the official ice bridges (roads) the transit traffic passing through Väinameri could be temporarily stopped

REPORT

Malfunctions of aids to navigation,
violations of safety regulations

phone

+3726205665

e-mail

navinfo@transpordiamet.ee

Security incidents

phone

+3726205665

e-mail

maritime.security@transpordiamet.ee

NOTATION OF AMENDMENTS

year 2023, changed pages: 3, 7, 18, 19, 21, 22, 24, 25, 26, 33, 33, 49

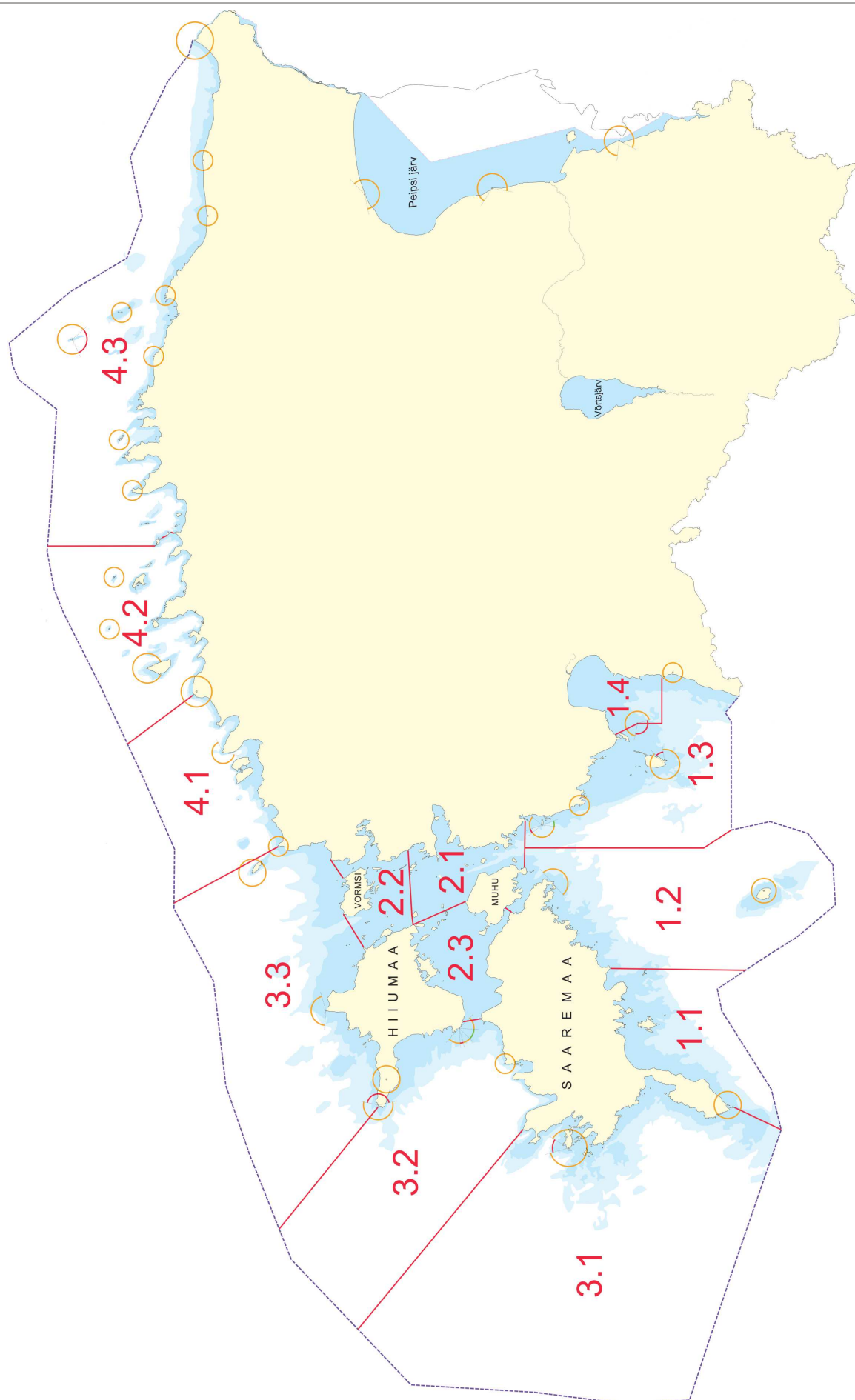
3rd release

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Please inform of any changes currently in use at navinfo@transpordiamet.ee

THE REGIONAL SCHEME IN THE SAILING DIRECTIONS



MARITIME RESCUE AND MARITIME POLLUTION

JRCC Tallinn

operational readiness

24 hours

channel/frequency

VHF-DSC 70 CH

VHF 16 CH

VHF 69 CH

MF-DSC 2187.5 kHz

MF 2182 kHz

call sign

Tallinn Rescue

INMARSAT-C

581492480040

phone

+3726191224

emergency 112

fax

+3726922501

e-mail

jrcc@politsei.ee

Voluntary

Estonian Voluntary Rescue Union

<http://maps.google.com/maps/ms?msid=209030024585672908914.0004a764b01c5b3c55d52&msa=0>

Estonian Maritime Rescue Organization

<https://sar.ee/projektid/vomare-2/> (in Estonian only)

Väinameri

General

Area

area between mainland Estonia and West-Estonian islands

Description

predominantly low and flat shore, sandy clay

northernmost part of the coast is predominantly covered with coniferous forest, southernmost broadleaved forest
shores and islets are bordered with rocky shoals

offshore banks are predominantly moraine

sediments are predominantly clay covered with a layer of sandy gravel, 3–5 cm thick

clay topped with gumbo in bays and deeper areas, limestone may occur in N part

low, oblong eskers composed of sand may occur in N part of the coastal sea

Currents

influenced by the water level variations and wind direction of the Gulf of Riga, the Baltic Sea and the Gulf of Finland

strong currents, 1–2 m/s may occur with favourable winds in the straits linking other maritime areas

as usual SW winds, also W and NW winds bring about the rise and NE winds the fall of the water level

Salinity

surface 6–7 ‰

in Haapsalu laht 2–3 ‰

during spring flood in Matsalu laht it drops below 1 ‰

Waves

wave dependent on the wind direction

sharp waves; wave height mostly does not exceed 0.7 m, top height rarely exceeds 1.5–2.5 m

typical wave length is 3–7 m, does not exceed 35 m

Climate and weather

Real time weather

KAUR www.ilmateenistus.ee/ilm/ilmavaatlused/vaatlusandmed/kaart/?lang=en

METOC <http://on-line.msi.ttu.ee/metoc/>

MSI <http://on-line.msi.ttu.ee/kaart.php?en>

Weather forecast

KAUR www.ilmateenistus.ee/meri/mereprognoosid/mereilm/?lang=en

Tallinn Radio VHF 1, 3, 5, 7, 20, 62, 64, 66 and MF 1650 kHz at 06.33 and 15.33 local time

KAUR www.ilm.ee/kola/grib-test/javascriptiga/ (in Estonian only, requires Java)

Weather warnings

Tallinn Radio VHF 1, 3, 5, 7, 20, 62, 64, 66 and MF 3310 kHz immediately after silence period

KAUR www.ilmateenistus.ee/ilm/prognoosid/hoiatused/?lang=en

e-mail subscription www.ilmateenistus.ee/teenused/teenuste-tellimine/?lang=en

Ice chart

KAUR www.ilmateenistus.ee/meri/jaakaart/?lang=en#zoomableStaticMap/zoomOff

Mean monthly air temperature (°C) 1981 – 2010

Station / Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Virtsu	-2.5	-3.9	-1.0	4.2	10.4	14.6	17.8	17.0	12.4	7.6	2.5	-0.9
Kärdla(*)	-1.9	-3.1	-0.5	3.7	9.2	13.7	16.5	15.9	11.4	7.3	2.3	-0.6

(*) - 1981 – 1999 mean monthly

Mean monthly wind speed (m/s) / maximum blast (m/s) 1981 – 2010

Station / Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Virtsu	4.5/27.0	4,1/26.0	3,9/28.0	3,9/26.0	4,0/22.0	4,0/24.0	3,7/22.3	3,8/24.0	4,0/25.0	4,4/24.9	4,6/30.0	4,5/26.0
Kärdla(*)	4.7/29.0	4,3/22.0	4,0/25.0	3,9/26.0	3,6/19.0	3,6/20.0	3,5/24.0	3,5/21.0	3,8/24.0	4,1/21.0	4,4/27.0	4,4/27.0

(*) - 1981 – 1999 mean monthly speed / maximum blast

Mean monthly air pressure (hPa)() 1981 – 2010**

Station / Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Virtsu	1011.1	1012.7	1012.2	1013.7	1014.9	1012.3	1012.3	1012.1	1013.4	1013.2	1011.5	1010.8
Kärdla(*)	1010.0	1013.2	1013.0	1013.1	1015.6	1012.2	1012.2	1012.2	1012.0	1011.8	1012.3	1009.4

(*) - 1981 – 1999 mean monthly
(**) - 1 hPa = 0.75006 mm Hg at 0°C

Mean monthly cloudiness (balls) 1981 – 2000

Station / Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Virtsu	7.7	7.0	6.7	6.0	5.4	5.9	5.7	6.1	6.4	6.9	7.9	7.8
Kärdla(*)	7.8	7.0	6.5	5.7	5.0	5.5	5.3	5.7	6.3	6.8	7.9	8.0

(*) - 1981 – 1999 mean monthly

Mean monthly number of foggy days 1981 – 2000()**

Station / Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Virtsu	4	4	5	6	2	1	1	1	1	2	2	3
Kärdla(*)	3	2	4	5	2	1	1	2	1	3	2	2

(*) - 1981 – 1999 mean monthly
(**) - following fog variations are considered in calculating foggy days: fog, transparency atmosphere fog, ice fog, transparency atmosphere ice fog

Mean monthly number of precipitation days / mean amount of precipitation (mm) 1981 – 2010()**

Station / Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Virtsu	11/51.5	8/35.9	9/35.5	7/30.8	6/29.9	8/52.5	8/66.1	10/74.3	10/64.0	12/72.7	12/66.6	12/50.6
Kärdla(*)	13/57.4	9/40.6	9/37.4	8/31.6	6/35.6	8/51.9	8/61.8	10/77.3	12/78.7	13/82.1	14/73.7	14/62.1

(*) - 1981 – 1999 mean monthly number of days / amount of precipitation
(**) - daily amount from 1.0 mm

Sea water level

Station	Observation period	Highest (cm)	Date	Lowest (cm)	Date
Virtsu	1889-1893, 1899-1912, 1945-2011	194	09.01.2005	-112	09.12.1959
Sõru	1947-1964	87	22.01.1956	-97	09.12.1959
Heltermaa	1950-2011	148	18.10.1967	-99	09.12.1959
Rohuküla	1950-1991, 1994-2011	175	09.01.2005	-101	09.12.1959
Haapsalu	1945-1957, 1970-1987, 2010-2011	196	09.01.2005	-91	15.10.1976

Information on mean winter ice cover on Estonian territorial waters 1971 – 2011

Area	Ice formation date			Ice clearing date			Ice days		Ice thickness (cm)	
	mean	earlier	later	mean	earlier	later	mean	min/max	mean	min/max
Väinameri	21. Dec	18. Nov	04. Feb	14. Apr	28. Feb	28. Apr	112	51/156	27 – 39	15/60
Suur väin	23. Dec	17. Nov	01. Mar	14. Apr	15. Mar	02. May	109	72/152	23 – 33	5/55
Soela väin(1)*	26. Dec	24. Nov	06. Feb	01. Apr	02. Feb	20. Apr	88	0/138	15 – 25	0/40
Haapsalu l.	13. Dec	15. Nov	28. Jan	14. Apr	24. Mar	27. Apr	123	66/153	31 – 41	10/70
Voosi kurk	20. Dec	17. Nov	02. Feb	11. Apr	10. Feb	27. Apr	112	50/151	28 – 38	10/60
Hari kurk	27. Dec	20. Nov	06. Feb	04. Apr	18. Mar	20. Apr	92	35/148	21 – 31	5/40

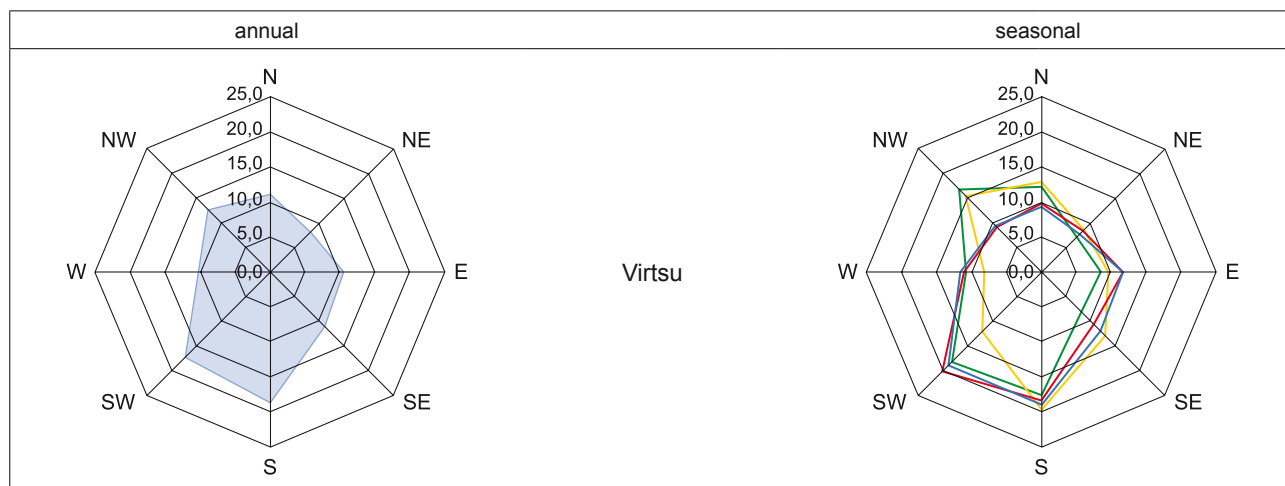
(...)* - icefree number of years in observation period

Winds

Mean wind direction (%) in relation to wind speed through years 1981 – 2010

VIRTUSU	N	NE	E	SE	S	SW	W	NW	total
calm									0.6
1 – 5 m/s	6.8	6.9	9.7	9.4	14.2	13.8	8	7.2	76.1
6 – 10 m/s	3.8	1.1	0.7	1.5	4.4	3.4	2.2	4.8	21.9
11 – 15 m/s	0.5	0	0	0	0.1	0.1	0.1	0.6	1.4
over 15 m/s	0	0	0	0	0	0	0	0	0.1
total	11.1	8	10.5	10.9	18.7	17.2	10.3	12.6	100

Wind frequency



Regions

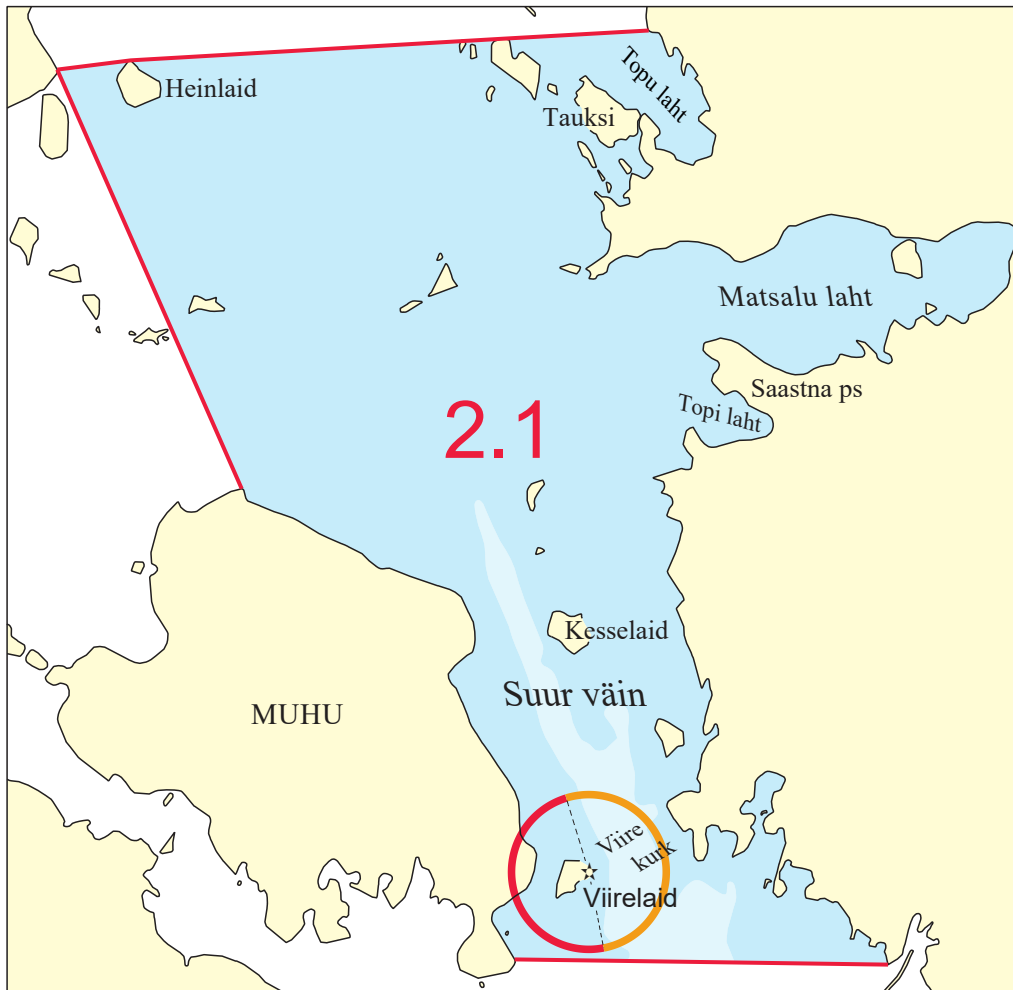
2.1 S part of Väinameri

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Sepa-Otto boat harbour	p 19
Uus-Meremäe boat harbour	p 19
Virtsu sadam	p 20
Saiasilla boat pier	p 24
Kuivastu sadam	p 24
Virtsu Vanasadam	p 28
Virtsu Kalasadam	p 29
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Vlademar boat pier	p 31
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2.2 N part of Väinameri

2.3 W part of Väinameri

2.1 SCHEME OF THE MARITIME AREA



2.1 marine area navigational charts

Estonian Maritime Administration chart No	INT chart No	Scale
305	1215	250 000
513		100 000
621		50 000
622		50 000
616		50 000
976		2 000
974		2 000

Atlas
Charts of Estonia, Vol 2
Charts of Estonia, Vol 3

retailers of the Estonian Transport Administration navigational charts:

<https://transpordiamet.ee/en/mobility-and-transportation/navigational-information/navigational-charts>

New editions of charts

with the new editions old charts are not in use anymore and no corrections will be issued to them

Cables and pipelines

anchoring, trawling and any other activity which may damage them is prohibited in the cable area, on the cable or pipeline track and 0.5 M on either side of these

2.1 S part of Väinameri

Vicinity

B a y s

Bay	Position, area limits	Description	Restrictions
Pivarootsi laht(*)	58°32.5'N 23°35.3'E	shallow	
Rame laht	58°34.5'N 23°34.0'E	shallow	
Vanaluubi	Rame laht W part	shallow	
Uulutü laht	58°33.4'N 23°32.1'E	shallow	
Mõniste laht	58°35.8'N 23°32.0'E	shallow	
Türni lõpp	58°36.8'N 23°31.6'E	shallow	
Lalli lõpp	58°36.9'N 23°21.2'E	shallow	
Mõisaküla laht	58°41.8'N 23°30.7'E	shallow	Matsalu MR (¹)
Topi laht	58°42.7'N 23°32.6'E	shallow	Matsalu MR (¹)
Matsalu laht	58°45.6'N 23°36.7'E	shallow, reed on beachfront	Matsalu MR (¹)
Topu laht	58°50.4'N 23°28.4'E	depths at the entrance less than 5 m, in the middle part less than 4 m, S part is shallow	Matsalu MR (¹)
Jändi lõugas	Topu laht NE part	shallow, reed on beachfront	
Lõpe laht	Topu laht S part	shallow	Matsalu MR (¹)
(¹) - operating any watercraft without the approval of the manager of the protected area and exceeding the speed limit of 15 knots is prohibited; the use of water bike, aqua jet, jet-skis, floating raft and surfboard is prohibited			
(*) - shown as Ruilõpp on some charts			

Hazards

Bay	Hazard	Least depth (m)	Position N/E		Nav. aid	No	Notes
	unnamed (rock)	0.6	58°31.05'	23°34.51'			
	unnamed	0.6	58°31.05'	23°34.99'			
SW approach to Pivarootsi laht	Ruimadal	0.8	58°31.50'	23°33.70'			
	unnamed	1.0	58°31.76'	23°35.01'			
	Uulutimadal	2.7	58°32.76'	23°30.66'			
	Virtu spoil ground	unknown	58°33.16'	23°30.27'			
	unnamed	1.0	58°35.13'	23°30.74'			
	sunken mines	10.0	58°34.60'	23°27.15'			anchoring and diving is prohibited within a radius of 1 cable
	unnamed	0.4	58°35.18'	23°30.48'			
	unnamed (rock)	unknown	58°35.20'	23°30.28'			
	Kesse madal	3.2	58°36.03'	23°26.32'	p/h buoy	800	
	unnamed	0.8	58°37.29'	23°29.30'			
	wreck	unknown	58°38.64'	23°30.17'			
	Kompassi madal	1.9	58°39.19'	23°20.12'			
	Raugi madal	1.6	58°39.75'	23°17.88'			
	unnamed	2.0	58°40.95'	23°12.73'			
	unnamed	0.4	58°41.24'	23°25.66'			
Topi laht – entrance	unnamed	1.4	58°42.95'	23°30.92'			
Topi laht – entrance	unnamed	1.0	58°43.15'	23°31.14'			
	Unterneemani madal	2.2	58°44.59'	23°14.52'	s/h buoy	745	
Matsalu laht	stone	0.5(*)	58°45.83'	23°27.46'			near Puise Kala-sadam approach
Matsalu laht	unnamed (rock)	0.8	58°45.35'	23°28.76'			
	Kumari madal	2.0	58°46.14'	23°15.81'	p/h buoy	741	
	unnamed	0.6	58°46.41'	23°25.95'			
	unnamed	1.4	58°46.69'	23°24.93'			
	unnamed	0.2	58°47.32'	23°26.37'			
	wreck „Merikaru“	2.7	58°46.64'	23°13.37'	s/h buoy	737.1	
	unnamed	0.4	58°46.26'	23°09.60'			
	unnamed	0.4	58°47.33'	23°19.34'			
	wreck „Zimmermann“	3.1	58°47.12'	23°22.30'			
	unnamed	1.2	58°48.12'	23°25.16'			
	unnamed	0.8	58°46.97'	23°10.00'			
	unnamed	unknown	58°48.27'	23°23.26'			
	unnamed	0.8	58°48.19'	23°10.42'			
	Väikese-Härja	0.4	58°50.22'	23°20.15'	W buoy	735	
	Suure-Härja	0.8	58°50.47'	23°20.56'	W buoy	735	

(*) - data clarification necessary

Historical wrecks

diving without a permit issued by the Estonian Heritage Board, trawling, anchoring, dredging and dumping of a solid materials is prohibited on an underwater heritage site and closer than 300 m to it

Islands, inlets

Nature protection restrictions					
Bay	Island, inlet	Position N/E		Description	Notes
Pivarootsi laht – entrance	Ruilaid	58°32.32'	23°34.70'	less than 4.8 m in height, scrub; surrounded by ledges	Puhtu-Laelatu MR ⁽³⁾
Pivarootsi laht	Ahessäär	58°32.40'	23°34.46'	2 m high, scrub, reeds; surrounded by ledges	Puhtu-Laelatu MR ⁽³⁾
Uuluti laht – entrance	Uulutilaid	58°33.31'	23°31.23'	low, scrub, grass	Puhtu-Laelatu MR ⁽³⁾
	Viirelaid	58°32.64'	23°25.98'	less than 4.5 m in height, grass, scrub; surrounded by rocky ledges	
	Polvergimadal	58°34.79'	23°30.90'	low	
	Kõbajalaid	58°35.58'	23°30.33'	low, scrub, coastal meadow	Puhtu-Laelatu MR ⁽³⁾
	Kingissepalaid	58°35.51'	23°29.88'	low, rocky, gravel	Puhtu-Laelatu MR ⁽³⁾
	Maialaid	58°35.56'	23°30.46'	low, gravel	Puhtu-Laelatu MR ⁽³⁾
	Pihlailaid	58°35.82'	23°29.62'	low, sand ridge	Puhtu-Laelatu MR ⁽³⁾
	Lammaslaid	58°35.87'	23°29.84'	low, sand ridge	Puhtu-Laelatu MR ⁽³⁾
	Paljaslaid	58°35.98'	23°29.52'	low, rocky, gravel	Puhtu-Laelatu MR ⁽³⁾
	Kesselaid	58°37.97'	23°25.80'	less than 15 m in height, fir forest; glint on the N coast; encircled by rocky shoal	
	Papirahu	58°39.79'	23°24.45'	low, sand ridge, rocks	Matsalu MR ⁽⁴⁾
	Papilaid	58°40.83'	23°24.18'	less than 6.8 m in height, rocky, grass, solitary tree	Matsalu MR ⁽⁴⁾
	Hülgerahu	58°45.07'	23°11.13'	low, rocky	Hiiumaa laidude MR ⁽⁵⁾
	Köverlaid	58°45.17'	23°10.32'	wooded	Hiiumaa laidude MR ⁽⁵⁾
	Sipelgarahu	58°45.17'	23°19.02'	low, rocky	Matsalu MR ⁽⁴⁾
⁽³⁾ - from 15.03 (or decay of ice cover) - 15.07 human presence within the limits of the Kõbaja laidude and Rame lahe conservation zones is prohibited ⁽⁴⁾ - human presence is prohibited ⁽⁵⁾ - from 14.02 - 01.11 human presence is prohibited, maximum permissible speed limit for navigating in the conservation zone is 8 knots					

Vicinity Islands, inlets (to be continued)

Bay	Island, inlet	Position N/E		Description	Notes
	Kumari saar	58°45.69'	23°20.62'	less than 6.8 m in height, rocks, grass, junipers	Matsalu MR ⁽⁶⁾
	Kakrarahu	58°46.00'	23°25.82'	low, gravel ridge	Matsalu MR ⁽⁷⁾
Matsalu laht	Suurrahu	58°46.14'	23°40.00'	low, grass, marshy	Matsalu MR ⁽⁸⁾
	Tondirahu	58°46.22'	23°20.31'	less than 3 m in height, rocky, junipers	Matsalu MR ⁽⁷⁾
	Oorahu	58°46.94'	23°26.92'	low, sand	Matsalu MR ⁽⁷⁾
	Tagarahu	58°47.75'	23°27.43'	less than 1 m in height, grass	Matsalu MR ⁽⁸⁾
	Paljarahu	58°48.06'	23°26.61'	low, grass, marshy	Matsalu MR ⁽⁸⁾
	Mustarahu	58°48.49'	23°26.60'	less than 2.5 m in height	Matsalu MR ⁽⁸⁾
Topu laht	Tauksi saar	58°49.32'	23°27.31'	less than 2.8 m in height, scrub, pine and mixed forest	Matsalu MR ⁽⁸⁾
Topu laht	Liia saar	58°50.15'	23°23.92'	less than 2.8 m in height, rocks, scrub, grove, coastal meadow	Matsalu MR ⁽⁸⁾
	Hanemaa	58°49.74'	23°22.33'	low, rocky	Matsalu MR ⁽⁴⁾
	Langekare	58°48.28'	23°08.46'	above 2.5 m in height, stone berm, rocks, several broad-leaved trees	Hiumaa laidude MR ⁽⁹⁾
Topu laht - entrance	Sõmeri saar	58°50.72'	23°22.98'	less than 5.1 m in height, rocky, variable grass cover, junipers, pines	Matsalu MR ⁽⁸⁾
	Rauarahu	58°49.08'	23°08.16'	low, sand, gravel	
	Heinlaid	58°49.90'	23°07.44'	less than 2.7 m in height, mixed forest, grassland	
	Härjamaa	58°50.87'	23°21.20'	low, rocky, grass	Matsalu MR ⁽⁴⁾
	Väike Härjamaa	58°50.83'	23°21.69'	low	Matsalu MR ⁽⁴⁾
Topu laht	Alarahu	58°50.68'	23°29.30'	low, rocky	
Topu laht	Ülerahu	58°50.23'	23°28.92'	low	
Topu laht	Endurahu	58°50.38'	23°30.56'	low, rocky	
Topu laht	Kustase rahu	58°49.80'	23°31.19'	low, rocky	
Topu laht	Ärmarahu	58°49.59'	23°30.95'	low	

⁽⁴⁾ - human presence is prohibited

⁽⁶⁾ - approaching islets closer than 500 m and human presence on islets within the limits of the special management zone is prohibited

⁽⁷⁾ - approaching islets closer than 200 m and human presence on islets within the limits of the special management zone is prohibited

⁽⁸⁾ - human presence within the limits of the special management zone is prohibited

⁽⁹⁾ - human presence within the limits of the special management zone is prohibited from the ice breakup to the formation of ice cover

Navigational aids

database of Estonian aids to navigation - https://nma.vta.ee/			
Island, inlet	Navigational aid	Nav. aid No	Notes
Selglaid	Pöörilaid light beacon	830/3631	
Viirelaid	Viirelaid lighthouse	785/3636	
	Virtsu lighthouse	780/3632	
Kesselaid	Kesse Idg.I. rear light beacon	802/3637-1	
Kesselaid	Kesse Idg.I. front light beacon	801/3637	
	Raugi Idg.I. rear light beacon	816/3638-1	
	Raugi Idg.I. front light beacon	815/3638	
	Seanina light beacon	825/3639	
Rukkirahu	Rukkirahu lighthouse	482/3652-1	

Other marks

Island, inlet	Mark	Position N/E		Notes
	Muriste communication mast	58°32.58'	23°37.07'	
	Uus-Kutsari observation tower	58°33.05'	23°35.31'	
	Puhtu observation tower	58°33.19'	23°32.83'	
	Virtsu-Uuluti wind turbines (3 pcs)	58°34.01'	23°32.05'	aviation obstruction lights
	Võiküla lighting tower	58°33.22'	23°23.45'	
	Virtsu wind turbines (4 pcs)	58°33.79'	23°30.50'	aviation obstruction lights
	Orissaare television mast	58°33.24'	23°04.78'	aviation obstruction lights
	Virtsu chimney	58°34.42'	23°30.68'	
	Virtsu chimney	58°34.83'	23°31.31'	
	Virtsu-Linnamäe wind turbines (3 pcs)	58°35.41'	23°31.81'	aviation obstruction lights
	Esivere wind turbines (16 pcs)	58°37.72'	23°31.84'	aviation obstruction lights
Kesselaid	Kesse daymark	58°38.23'	23°25.84'	former daymark
	Uiema front mark	58°38.97'	23°19.28'	former Idg.I. mark
	Nõmmküla communication mast	58°40.25'	23°11.55'	aviation obstruction lights
	Mõisaküla radio mast	58°41.38'	23°34.70'	aviation obstruction lights
	Saastna daymark	58°43.25'	23°32.34'	former daymark
	Kiideva observation tower	58°46.31'	23°32.88'	
	Haeska observation tower	58°46.76'	23°39.55'	
	Keemu observation tower	58°44.73'	23°40.45'	
Kumari saar	Kumari daymark	58°45.79'	23°20.64'	former daymark
	Jugasaare observation tower	58°47.80'	23°28.41'	
	Allika radar tower	58°49.73'	23°32.79'	aviation obstruction lights
	Panga communication mast	58°49.92'	23°34.51'	aviation obstruction lights

Topography

Coast

from Virtsu poolsaar to Rooglaiu neem the coast is forest covered rocky shoal, 2–5 cables in width

from Rooglaiu neem to Jändi poolsaar the coast is indented, forest covered abundant islets in the coastal sea bays are shallow and rocky variable bottom sedimentation

E coast of Muhu saar is low, NW of Püssinina pank high and forest covered coastal shoal predominantly 2–4 cables in width, in Lalli lõpp 1.5 M wide

in Suur väin between Kesselaid and Muhu there is occasionally mud in the bottom

in Suur väin the surface current may reach to 2 knots

Navigation restrictions

Prohibitions

anchoring, trawling and any other activity which may damage cables or pipelines is prohibited in the cable area, on the cable or pipeline track and 0.5 M on either side of these

in former mine areas anchoring, trawling and dredging are not recommended

diving without a permit issued by the Estonian National Heritage Board, trawling, anchoring, dredging and dumping of solid materials is prohibited on an underwater heritage site and closer than 300 m to it

Fishing

fishing nets (unmarked) occur close to nearshore shoals, within 10 m isobath

Pilot service - transit traffic and harbours in Väinameri

pilotage is compulsory in Väinameri, except for small craft

Väinameri S-N pilot boarding place 58°31'N 23°30'E

radio channel: VHF 12

call sign: Virtsu Loots

Anchorage

Anchorage area	Bottom topography	Notes
5 cables NW from Virtsu harbour, depths 5–8 m	sand, clay	
5–6 cables NE from Kuivastu harbour, depths 5–6 m	clay, sand	
2.5 M SSE from Kesselaid, depths 11–13 m	clay	
2–3 cables SE from Kesselaid Hännasäär	clay	for small craft
1.7 M NW from Kumari saar, depths 5–5.5 m	clay, sand	

Harbours

harbours are responsible for the accuracy of the provided information

schemes are not for purposes of navigation

port information is broadcasted from June 1 to September 30 at Tallinn Radio VHF 1, 3, 5, 7, 20, 62, 64, 66

State Port Register - www.sadamaregister.ee/?language=en

(PR) - harbour in Port Register

Muriste-Sepa boat harbour 58°32.18'N 23°36.67'E (private)

Approach

Restrictions

local knowledge required

Prohibitions

entrance on the permission of the harbour owner

Sepa-Otto boat harbour 58°32.21'N 23°36.70'E (private)

Approach

Restrictions

local knowledge required

Prohibitions

entrance on the permission of the harbour owner

Uus-Meremäe boat harbour 58°32.86'N 23°35.25'E (private)

Approach

Restrictions

local knowledge required

Prohibitions

entrance on the permission of the harbour owner

Virtsu sadam approach (depths BSCD2000^{EH2000})**Navigational aids**

Virtsu Idg.l. 087.7° - 267.7°

Virtsu Idg.l. front light beacon ([771/3632·4](#))

Virtsu Idg.l. rear light beacon ([772/3632·41](#))

Virtsu harbour pier light beacon ([775/3632·6](#))

Channel

length 850.0 m

width 190.0 m

depth 6.8 m

Restrictions

small craft in vessel traffic must keep away as far as possible from the center line as allowed by their own safety to navigation

(PR) **Virtsu sadam** 58°34.56'N 23°30.47'E (<https://saarteliinid.ee/en/virtsu/>)

Communication channels

VHF 14 — Virtsu sadam

Pilot service

pilotage is compulsory, except for small craft

boarding place Väinameri S-N 58°31'N 23°30'E

Väinameri N-S 59°01'N 23°05'E (part 2.2)

Soela väin 58°41'N 22°24'E (part 3.2)

Restrictions

the ferry following the scheduled timeline always has the priority when entering or leaving the harbour

upon other ships simultaneous entering and leaving the harbour the departing vessel has the priority except when requested otherwise under emergency conditions

small craft is not permitted to move closer than 30 m to the quays or ships alongside except for berthing themselves

minimal speed, with which the ship maintains maneuverability, is implemented

Entering and leaving prohibitions

S wind speed over 15 m/s

N wind speed over 18 m/s

ferries when wind speed is over 25 m/s

Maneuver

remooring is allowed only with the permission of the harbour master's office

pilotage is compulsory for remooring a vessel, except hauling

Real time weather

<http://on-line.msi.ttu.ee/virtsu/?eng>

<http://on-line.msi.ttu.ee/?en&jaam=virtsu>

www.ilmateenistus.ee/meri/vaatlusandmed/virtsu/?lang=en

Natural conditions

open to N winds

Mooring (depths BSCD2000^{EH2000})

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			130.0	20.0	6.5	commercial shipping; fishing and small craft facilities	01.01 - 31.12
1	102.0	5.8	100.0	20.0	5.5	ferries, ramp	
2	48.0	5.8	45.0	20.0	5.5	cargo	
3	20.0	5.0	20.0	12.0	4.7	temporary stay	
4	130.0	5.0	120.0	20.0	4.7	ferries, ramp	
5	30.0	4.3	27.0	12.0	4.2	temporary stay	
6	72.0	5.0	90.0	20.0	4.9	ferries, ramp	
7	24.0	2.4			1.7	floating	
slip							
8	160.0	6.8	120.0	20.0	6.5	cargo	
9	18.0	1.6				floating	
10	15.0	1.2				floating	

Facilities

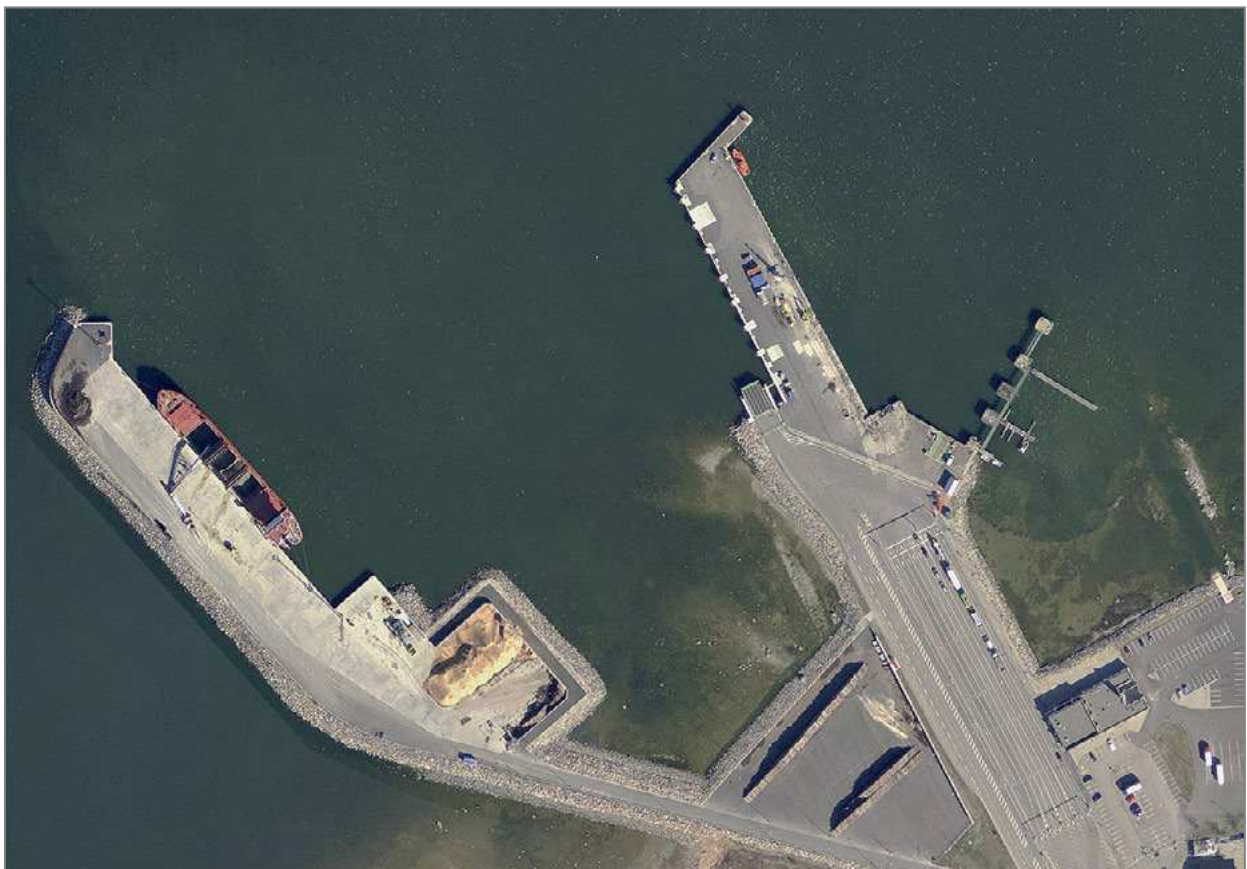
Quay No	Fuel	Fresh water	Pilge water	Sewage water	Pier crane	Electricity	Internet
1		*	*	*		*	Wi-Fi
2		*	*	*		*	Wi-Fi
3		*	*	*		*	Wi-Fi
4		*	*	*		*	Wi-Fi
5		*	*	*		*	Wi-Fi
6		*	*	*		*	Wi-Fi
7		*	*	*		*	Wi-Fi
8		*	*	*		*	Wi-Fi
9		*				*	Wi-Fi
10		*				*	

General

international freight
toll and border check, except for small craft
sweepings reception
garbage reception
shower, toilet, laundry



Virtsu sadam (2012)



aerial panorama - www.estonia360.ee/virtsu/
www.estonia360.ee/virtsu_sadam/ (2012, winter)

Saiasilla boat pier 58°34.44'N 23°30.85'E (severely damaged, closed)

Kuivastu sadam approach

Navigation aids

Kuivastu Idg.l. 267.7° - 087.7°

Kuivastu Idg.l. front light beacon (790/3634)

Kuivastu Idg.l. rear light beacon (791/3634·1)

Kuivastu harbour pier light beacon (795/3634·5)

Kuivastu small-craft harbour light beacon (793/3634·7)

small-craft harbour lateral marks

(PR) **Kuivastu sadam** 58°34.41'N 23°23.65'E (<https://saarteliinid.ee/en/kuivastu/>)

Communication channels

VHF 14 — Kuivastu sadam

Pilot service

pilotage is compulsory, except for small craft

boarding place Väinameri S-N 58°31'N 23°30'E

Väinameri N-S 59°01'N 23°05'E (part 2.2)

Soela väin 58°41'N 22°24'E (part 3.2)

Restrictions

the ferry following the scheduled timeline always has the priority when entering or leaving the harbour

upon other ships simultaneous entering and leaving the harbour the departing vessel has the priority except when requested otherwise under emergency conditions

small craft is not permitted to move closer than 30 m to the quays or ships alongside except for berthing themselves

minimal speed, with which the ship maintains steering capability, is implemented

Entering and leaving prohibitions

S wind speed over 15 m/s

N wind speed over 18 m/s

ferries when wind speed is over 25 m/s

Maneuver

remooring is allowed only with the permission of the harbour master's office

pilotage is compulsory for remooring a vessel, except hauling

Real time weather

<http://on-line.msi.ttu.ee/?en&jaam=kuivastu>

Mooring (depths BSCD2000^{EH2000})

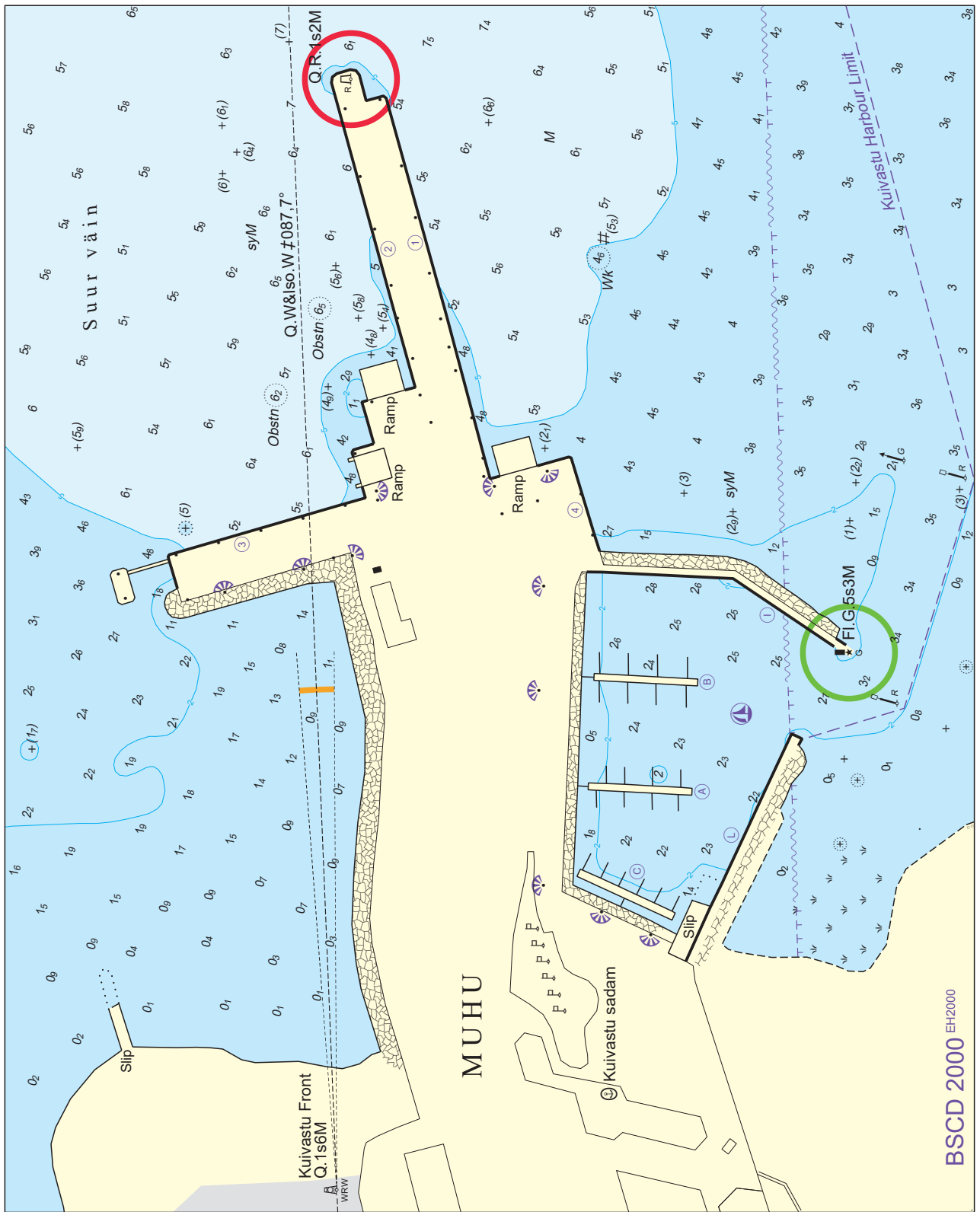
Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			120.0	20.0	4.5	commercial shipping; fishing and small craft facilities	01.01 - 31.12
1	123.0	5.0				ferries, ramp	
2	98.0	5.5				ferries, ramp	
3	88.6	5.0				ferries, ramp	
4	30.0	3.9				cargo	
small-craft harbour							
L	85.0	2.1				small craft	
slip							
I	100.0	2.8				small craft	
A	36.0	2.3				W-floating	
B	36.0	2.5				E-floating	
C	36.0	2.3				floating	

Facilities

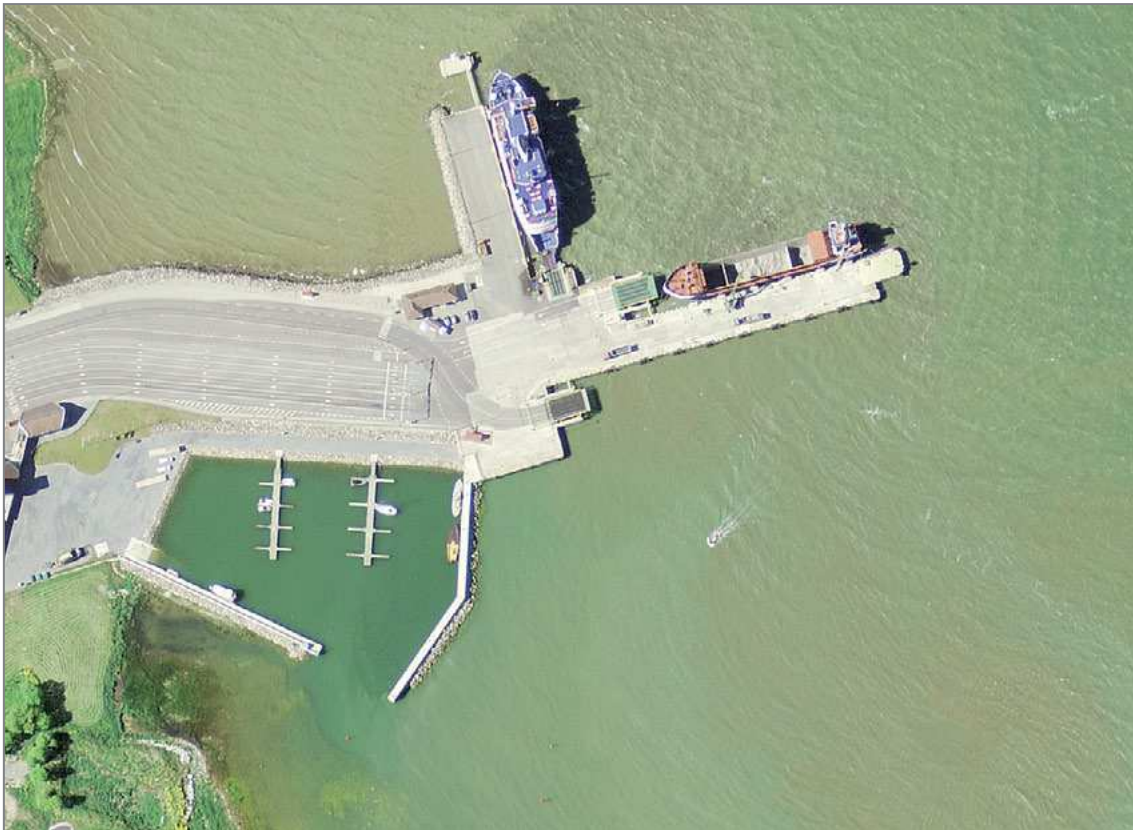
Quay No	Fuel	Fresh water	Pilge water	Sewage water	Pier crane	Electricity	Internet
1	*	*	*	*		*	Wi-Fi
2	*	*	*	*		*	Wi-Fi
3	*	*	*	*		*	Wi-Fi
4			*	*			Wi-Fi
L	*	*				*	Wi-Fi
I		*				*	Wi-Fi
A		*				*	Wi-Fi
B		*				*	Wi-Fi
C		*				*	Wi-Fi

General

international freight
 toll and border check, except for small craft
 garbage and waste reception
 shower, toilet, laundry
 CCTV



Kuivastu sadam (2015)



aerial panorama - www.estonia360.ee/kuivastu

(PR) **Virtsu Vanasadam** 58°34.74'N 23°31.17'E

Mooring (depths BSCD2000^{EH2000})

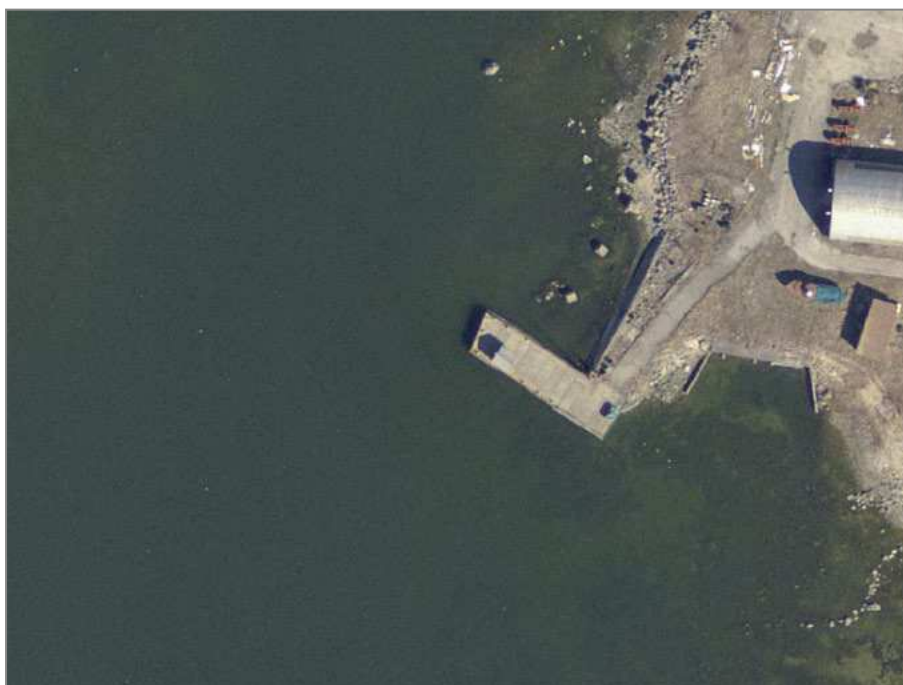
Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			12.0	4.0	1.7	small craft facilities	01.05 - 30.11
1	28.5	1.5				small craft	
2	20.0	1.2				small craft	
3	18.0	0.8				small craft	

Facilities

Quay No	Fuel	Fresh water	Pilge water	Sewage water	Pier crane	Electricity	Internet
1			*	*			
2			*	*			
3			*	*			

General
garbage reception

Virtsu Vanasadam (2012)



(PR) **Virtsu Kalasadam** 58°35.28'N 23°31.36'E (under reconstruction)

Mooring (depths BSCD2000^{EH2000})

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			12.0	4.0	0.8		01.04 - 01.11
1	36.0	1.3				fishing	
2	36.0	1.0				fishing	
3	40.0	2.0				floating	

Facilities

Quay No	Fuel	Fresh water	Pilge water	Sewage water	Pier crane	Electricity	Internet
1		*					
2		*					
3							

General
garbage and waste reception

Virtsu Kalasadam (2017)



Lalli boat harbour approach**Channel**

length 42.0 m

width 7.0 m

depth 1.0 m

Natural conditions

with S winds the clay rich soils may silt up with sediments

Restrictions

local knowledge required

Lalli boat harbour 58°37.49'N 23°21.41'E**Natural conditions**

open to E and S winds

Mooring

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
						local fishing harbour	
1	25.0						
2	17.5						
slip							
3	14.0						
4	30.0						

Lalli boat harbour (2012)



Vlademar boat pier approach

Channel 051.6° (231.6°)

length 54.0 m

width 4.0 m

Vlademar boat pier 58°37.37'N 23°31.14'E**Mooring**

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
						local fishing harbour	
1	6.0						

Vlademar boat pier (2012)



Kesse-Jaani sadam approach

Navigational aids

Kesse-Jaani harbour S mole light beacon ([803.1/3637·6](#))Kesse-Jaani harbour N mole light beacon ([803.2/3637·8](#))[\(PR\)](#) **Kesse-Jaani sadam** 58°37.93'N 23°26.63'E (private)

Approach

Restrictions

local knowledge required

Prohibitions

entrance on the permission of the harbour owner

Kesse abajas approach

Restrictions

local knowledge required

Kesse abajas 58°38.33'N 23°25.37'E

Mooring

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
						small craft facilities	
1						floating	

Kesse abajas (2021)

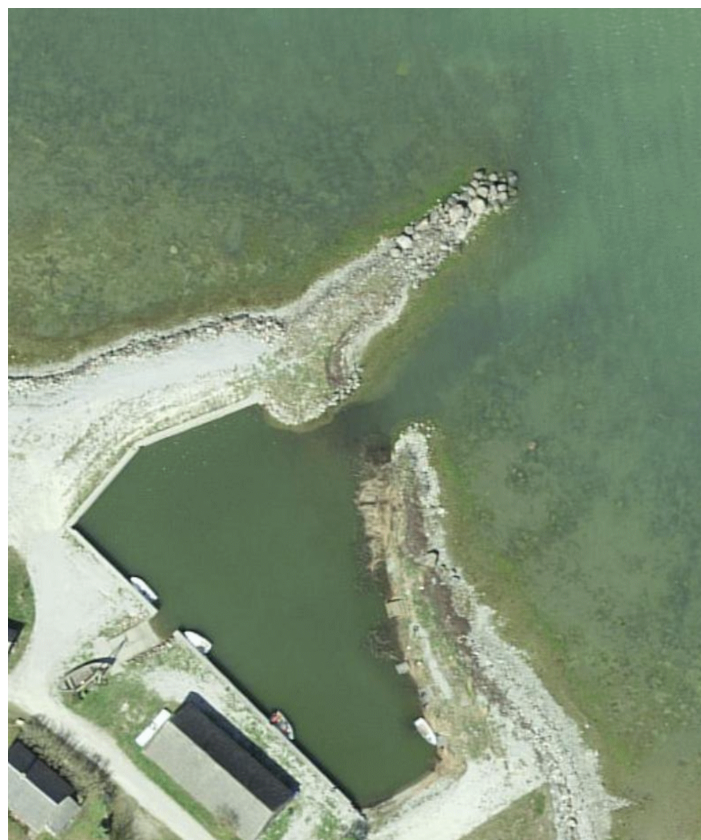
aerial panorama - www.estonia360.ee/kessulaid/ (2013)

(PR) **Kallaste sadam** 58°40.10'N 23°15.16'E

Mooring

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			12.0	3.0	0.7	local fishing harbour	01.04 - 01.12
1	36.0	0.8				small craft	
slip							
2	18.0	0.8				small craft	
3	16.0	0.8				small craft	
4	19.0	0.8				small craft	

Kallaste sadam (2021)



aerial panorama - www.estonia360.ee/kallaste/ (2018)

(PR) **Vörkaia sadam** 58°40.92'N 23°11.91'E

Mooring (depths BSCD2000^{EH2000})

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			12.0	3.0	0.8	local fishing harbour	01.03 - 01.12
1	16.0	1.2				small craft	
slip							

Facilities

Quay No	Fuel	Fresh water	Pilge water	Sewage water	Pier crane	Electricity	Internet
1				*			

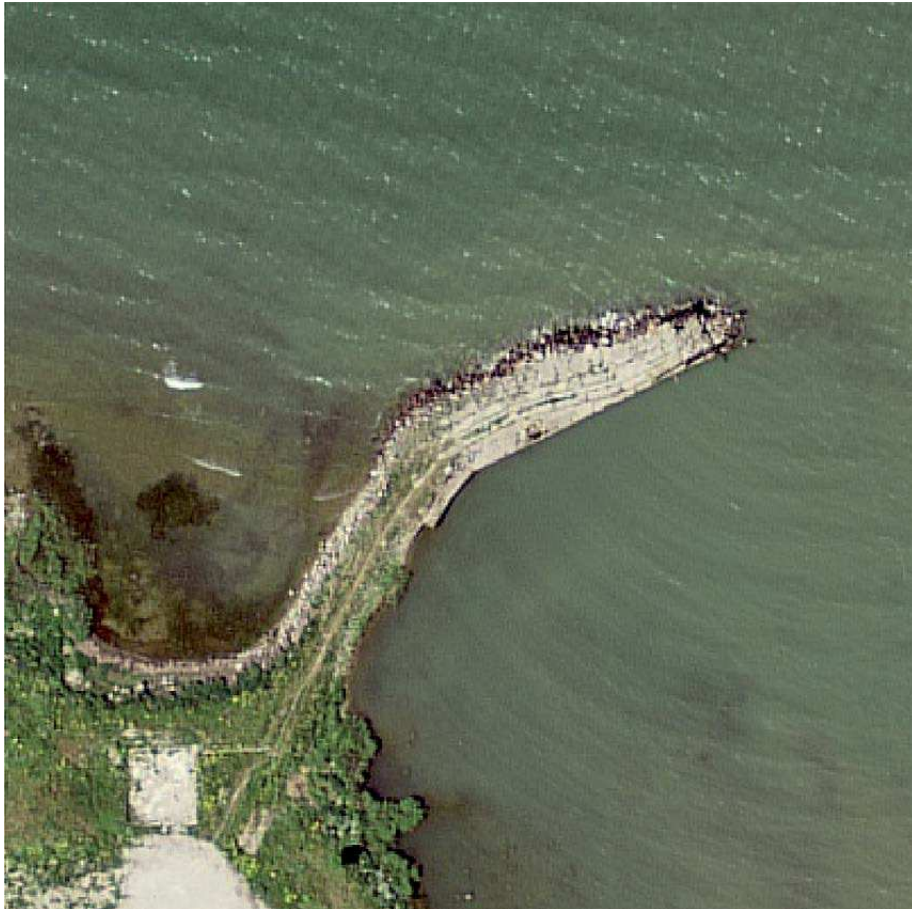
General
garbage and waste reception

Vörkaia sadam (2012)



Seanina harbour 58°41.06'N 23°11.71'E (destroyed)

Seanina harbour (2015)



Rooglaiu boat harbour 58°42.37'N 23°30.96'E**Mooring**

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
						local fishing harbour	01.04 - 01.11
1	10.5	less than 1.0					

Facilities

Quay No	Fuel	Fresh water	Pilge water	Sewage water	Pier crane	Electricity	Internet
1						*	

Rooglaiu boat harbour (2012)

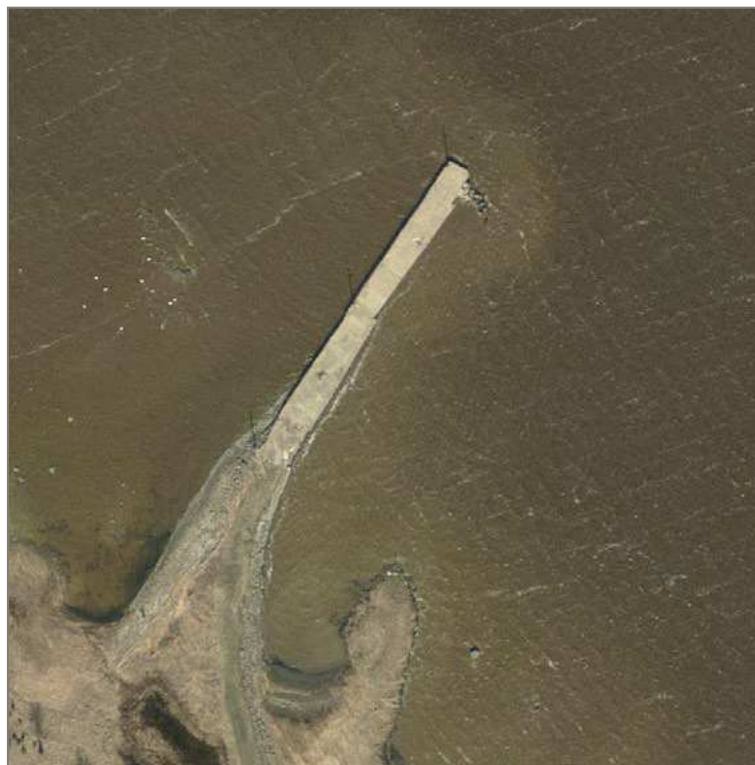


(PR) **Saastna Vanasadam** 58°44.13'N 23°33.51'E

Mooring (depths BSCD2000^{EH2000})

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			14.0	4.0	1.4	local boat harbour	15.04 - 15.11
1	70.0	0.8				boats	

Saastna Vanasadam (2012)



Keemu boat harbour approach

Channel

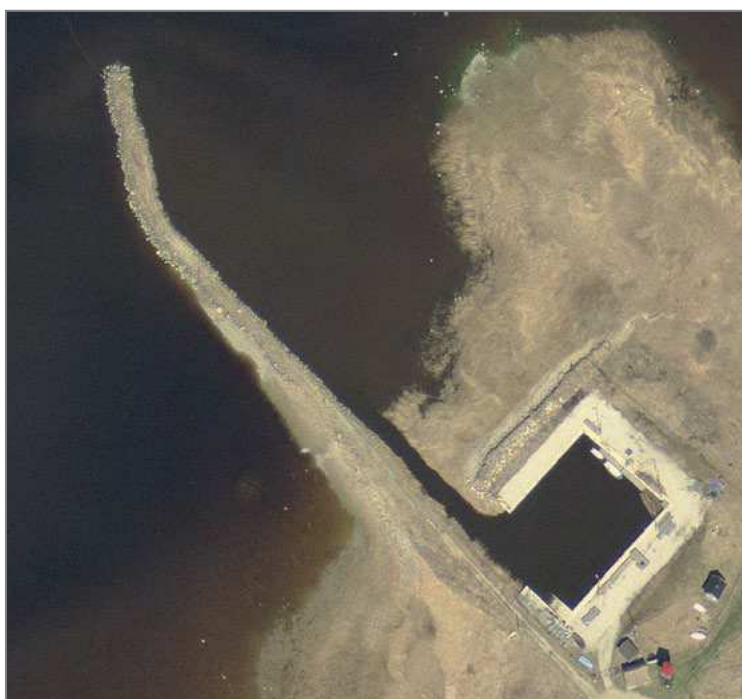
length 134.0 m

Keemu boat harbour 58°44.75'N 23°40.44'E

Mooring

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
						local fishing harbour	01.04 - 01.11
1	44.0	1.5					
slip							
2	34.0	1.5					
3	34.0	1.5					

Keemu boat harbour (2012)



Kloostri-Lihula boat pier 58°44.80'N 23°49.20'E (private)

Approach

Restrictions

local knowledge required

Prohibitions

entrance on the permission of the harbour owner

Kiideva sadam approach (depths BSCD2000^{EH2000})

Channel

length 287.0 m

width 6.0 m

depth 1.0 m

(PR) **Kiideva sadam** 58°46.29'N 23°32.88'EMooring (depths BSCD2000^{EH2000})

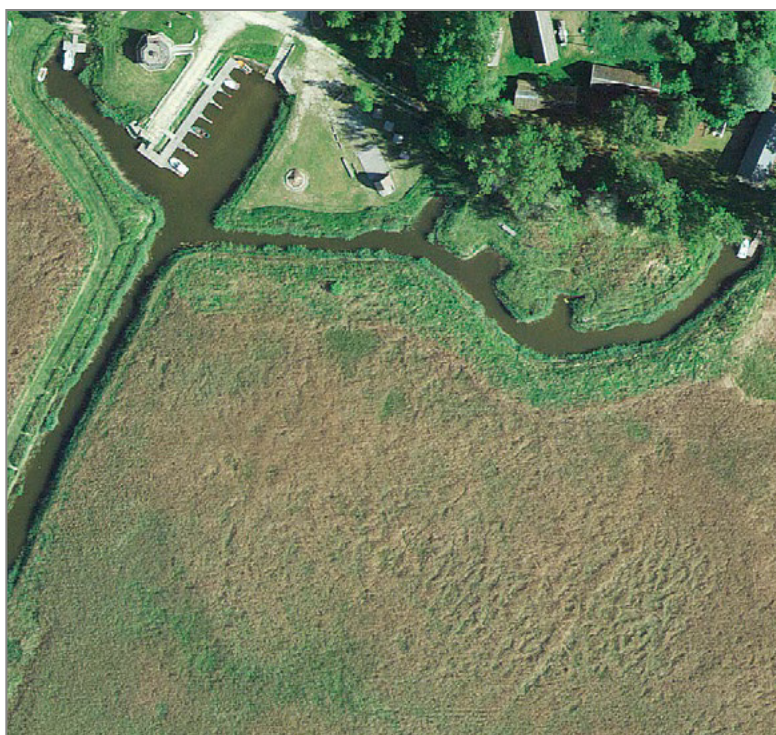
Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			8.0	3.0	0.8	local fishing and boat harbour	01.04 - 30.11
1	6.0	1.0				floating	
2	36.0	1.0				floating	
slip							

Facilities

General

toilet

Kiideva sadam (2018)

aerial panorama - www.estonia360.ee/kiideva/ (2012, winter)**Kõrtsu-Puise boat harbour** 58°46.22'N 23°27.67'E (private)

Approach

Restrictions

local knowledge required

Prohibitions

entrance on the permission of the harbour owner

Puise Kalasadam approach**Channel**

depth 1.8 m
width 8.0 m

(PR) **Puise Kalasadam** 58°45.89'N 23°27.32'E

Restrictions

upon ships simultaneous entering and leaving the harbour the departing vessel has the priority except when requested otherwise under emergency conditions

minimal speed, with which the ship maintains steering capability, is implemented; stern wave shall not occur

Entering and leaving prohibitions

visibility less than 50 m

wind speed over 15 m/s

Maneuver

remooring is allowed only with the permission of the harbour master's office

Mooring

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			12.0	4.0	1.5	local fishing and boat harbour	01.05 - 01.10
1	40.0	2.2				fishing boats	
2	22.5	1.8				small craft	
3	17.5	1.8				discharging	
slip							

Facilities

Quay No	Fuel	Fresh water	Pilge water	Sewage water	Pier crane	Electricity	Internet
1		*				*	
2							
3		*			*	*	

General
garbage reception

Puise Kalasadam (2014)



aerial panorama - www.estonia360.ee/puise_nina/ (2012, winter)

Puise Rahukai boat pier 58°45.86'N 23°27.23'E (private)

Approach

Restrictions

local knowledge required

Prohibitions

entrance on the permission of the harbour owner

Jugassaare boat harbour approach

Channel

length 106.0 m

Jugassaare boat harbour 58°47.78'N 23°28.45'E

Mooring

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
						small craft facilities	
1	31.0						
2	72.0						
slip							
3	29.0						

Jugassaare boat harbour (2012)



Spordibaasi boat harbour approach

Channel 063.3° (243.3°)

length 37.0 m

width 8.0 m

depth 1.0 m

Spordibaasi boat harbour 58°51.04'N 23°29.70'E (abandoned)

Spordibaasi boat harbour (2012)



Trammi boat harbour approach

Channel

length 64.0 m

width 3.0 m

Trammi boat harbour 58°50.89'N 23°29.84'E (abandoned)

Trammi boat harbour (2012)



(PR) **Topu sadam** 58°50.67'N 23°30.04'E

Mooring (depths BSCD2000^{EH2000})

Harbour/ quay No	Quay length (m)	Depth (m)	Vessel maximum size			Harbour/ quay function	Navigation period
			Length (m)	Width (m)	Draught (m)		
			14.0	3.5	1.0	local fishing harbour	01.04 - 01.11
1	45.0	1.5					
2	14.0	1.5					
2A	5.5	1.5				floating	
2B	5.5	1.5				floating	

Topu sadam (2020)



Tindaviigu boat harbour 58°50.73'N 23°30.10'E (private)

Approach

Restrictions

local knowledge required

Prohibitions

entrance on the permission of the harbour owner

Allika boat harbour 58°49.50'N 23°31.74'E (private)

Approach

Restrictions

local knowledge required

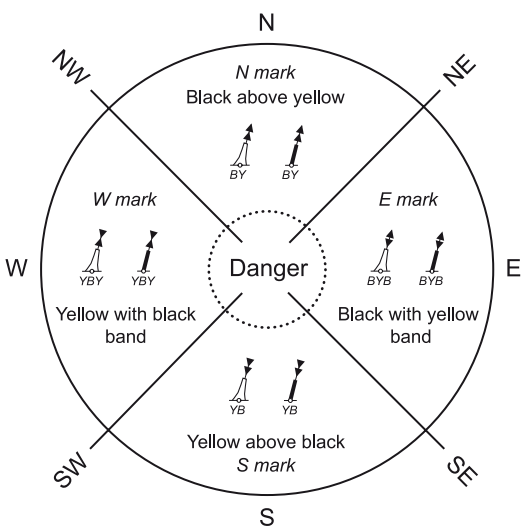
Prohibitions

entrance on the permission of the harbour owner

FLOATING AIDS

SYMBOLS

Cardinal marks

UNLIT MARKS	LIGHTED MARKS
Topmark (if any): 2 black cones 	White light Time (seconds) 0 5 10 15 Period shown N mark  Q E mark  Q(3)10s S mark  Q(6)+LFI.15s W mark  Q(9)15s The periods 5s, 10s and 15s, may not always be charted

Isolated danger marks stationed over dangers with navigable water around them

Body: black with red horizontal band
Topmark (if any): 2 black spheres



Fl(2)

white light

Safe water marks such as mid-channel and landfall marks

Body: red and white vertical stripes
Topmark (if any): red sphere



LFl.10s or
Mo(A)

white light

Special marks not primarily to assist navigation but to indicate special features

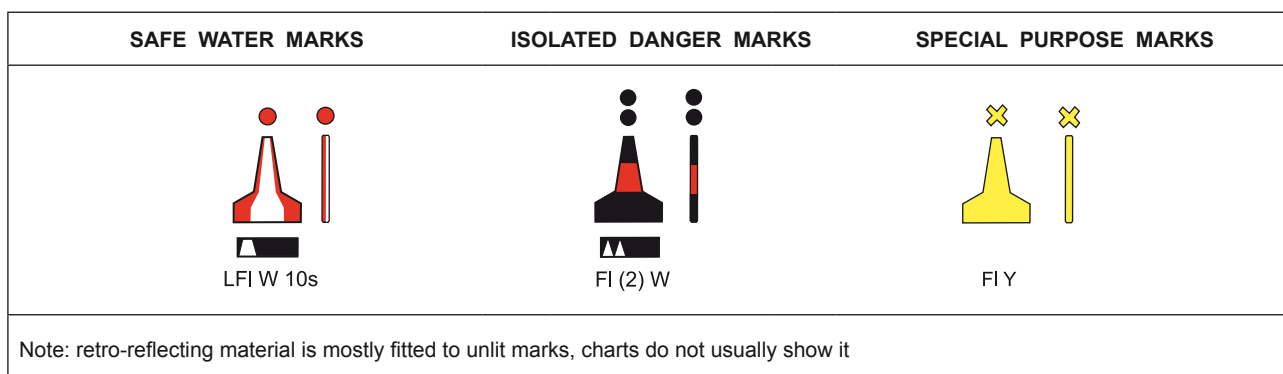
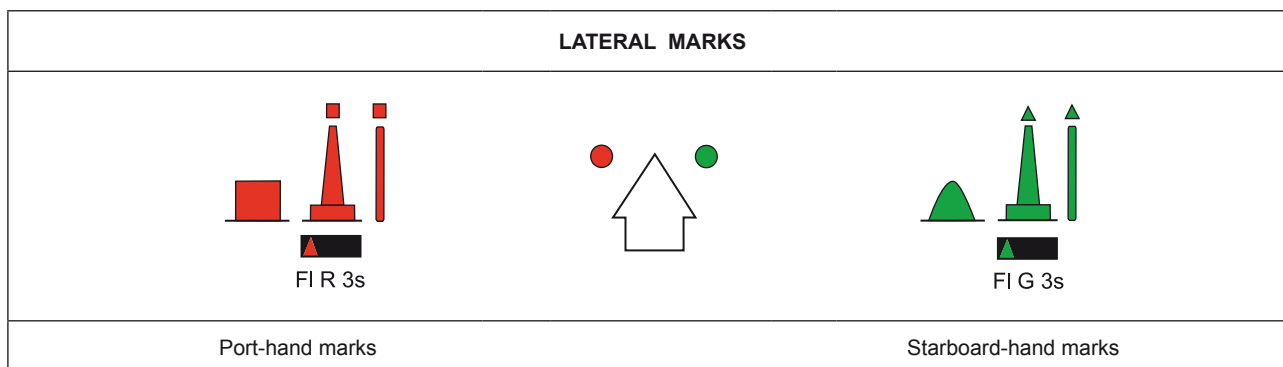
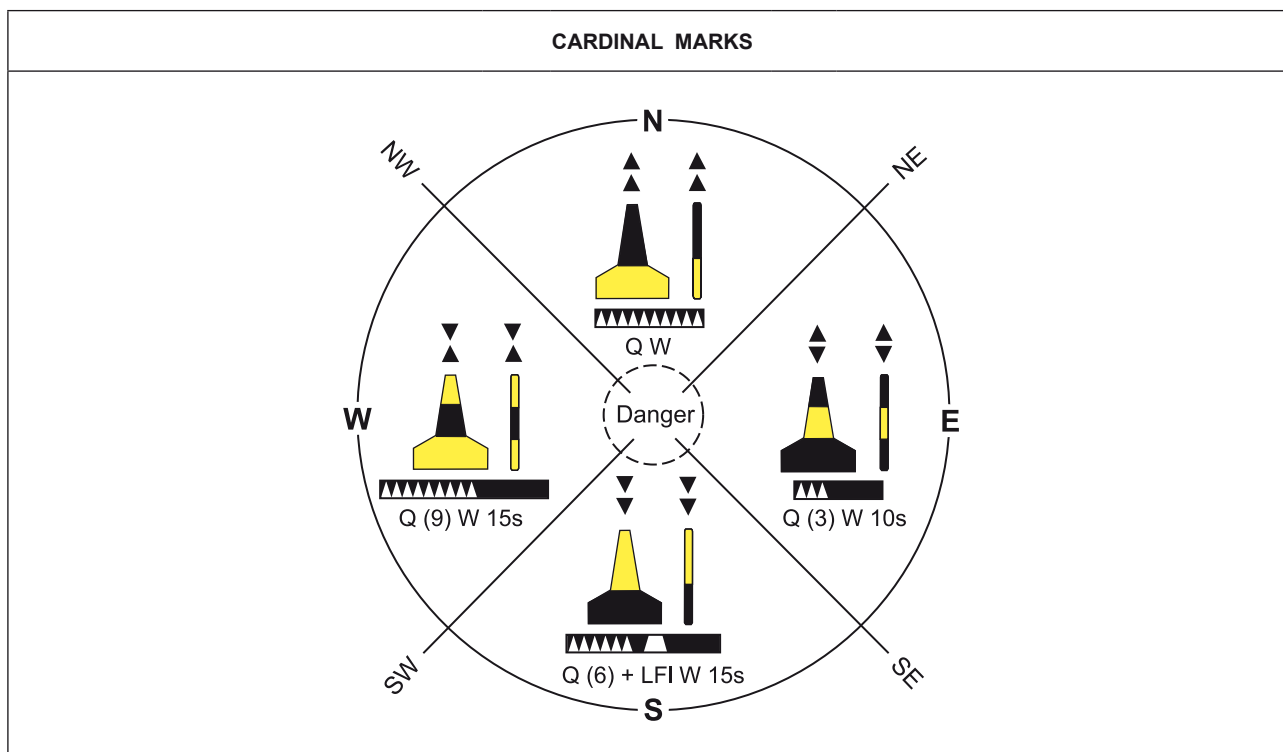
Body: yellow
Topmark (if any): yellow x



Fl.Y

yellow light

COLOUR SCHEME



ESTONIAN MARITIME COMMUNICATION

Tallinn Radio

MMSI

002761000

phone

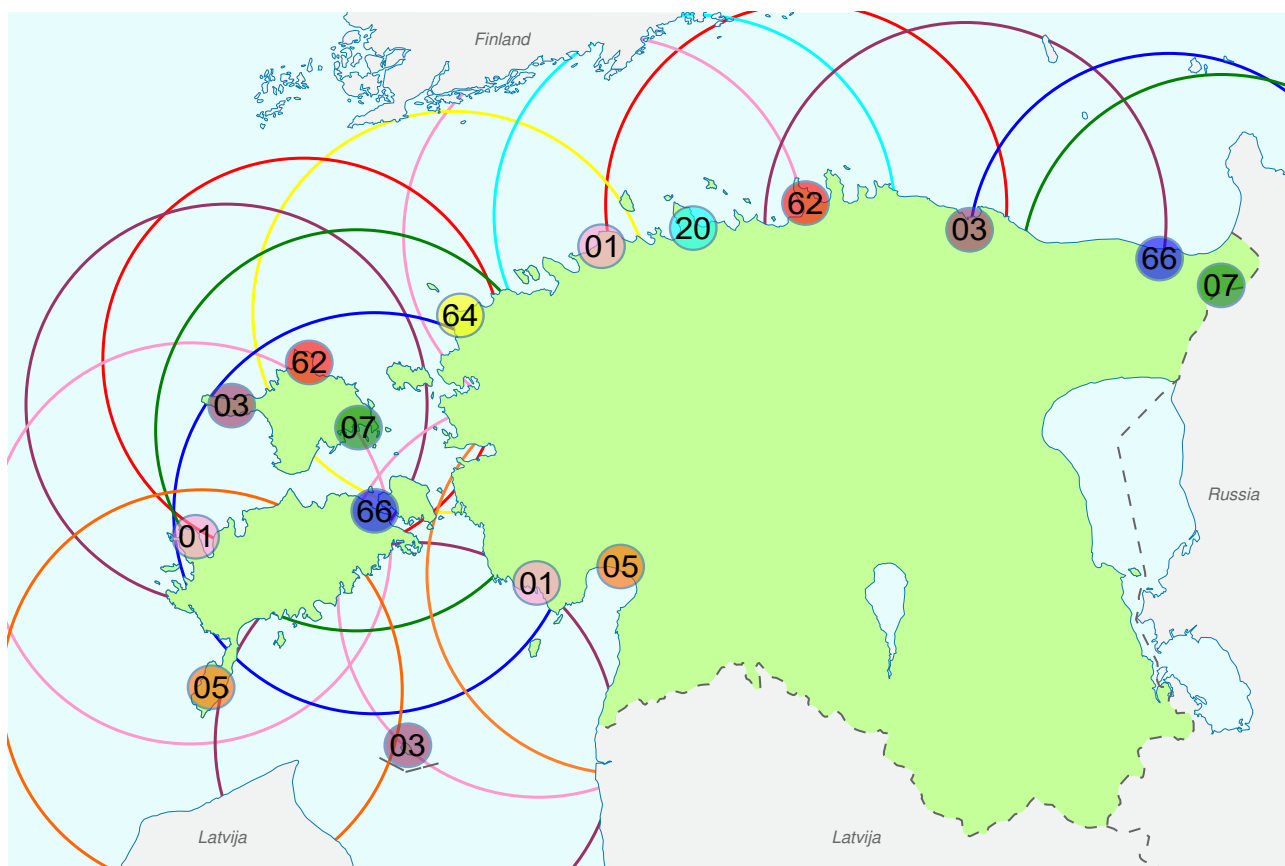
+3726991170

fax

+3726991171

e-mail

tallinnradio@riks.ee

scheme of the base stations

○ - Tallinn Radio base stations and VHF duplex working channels