Mooring operation at Strömmen

For ships shorter than 230m anchoring and mooring is still possible

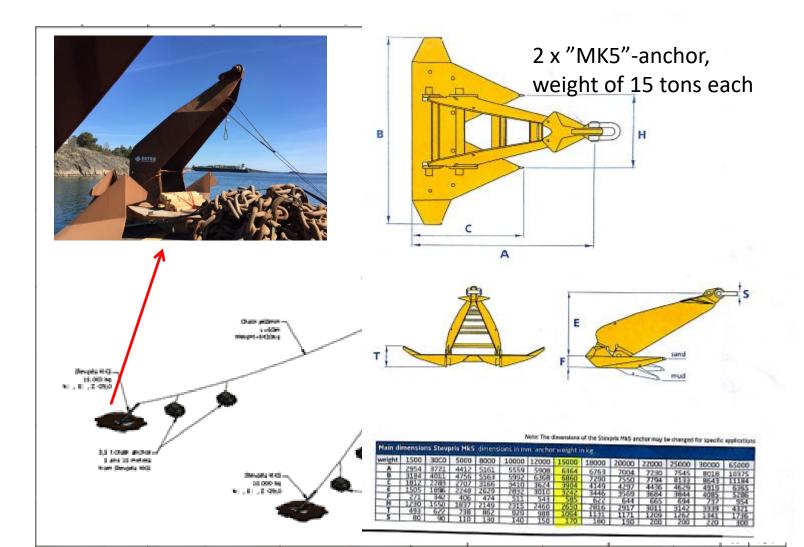
Mooring

For mooring click on the blue mooring path for anchoring green anchor path

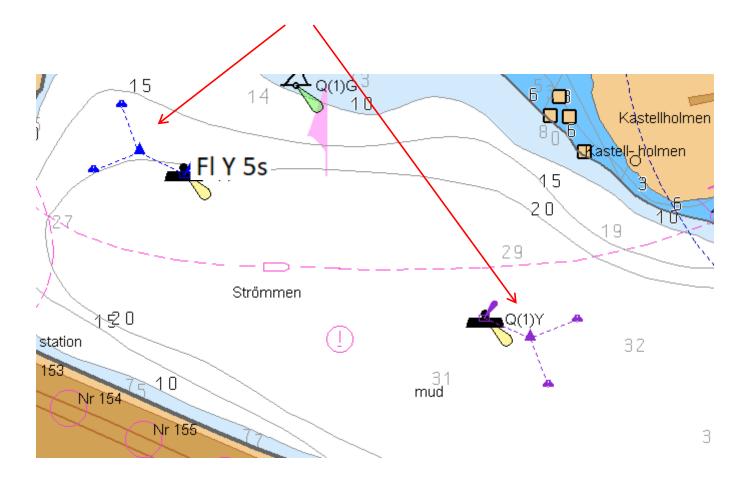
Anchor



The anchor system is similar, as the offshore industry use for mooring in open waters



The blue and violett figurs show all of the anchors at Stockholms Ström



There is ~ 10 m slack in the chain for each buoy which means that the distance between buoys will be ~380m after the lines has been tightened

300

400

50

E18.07781

BUOY

N59.32182

E18.07915

21.27

ANC HOR N 59.32255

AN CHOR N59.32185 E18.07721

> BUOY N59.32027 E18.08548

-18:33

50

ANC HOR N59.32024 E18.08743

ANCHOR N59.31954 E18.08682

The system is designed for mean winds up to 14 m/s in all directions for a ship with a wind area of 10 000 sqm

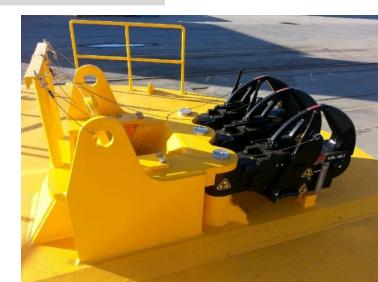
	A	В	С			D	
1	Ship	Orion					
2	Туре	X-are	1) Gener	al, PC	C 2) Cruise, ferr	y 3) Tank, bulk	
3	LOA	293,5	Meter		Bouy/moori	ng	
4	Conningpos	40	Meter				
5	Hawsepipe - bow	15	m				
6	Side wind area	10342	Sqm				
7	Front area	1952	Sqm				
8	Typ of anchore	AC 14	1 or 2	JIS ;1	I / AC 14; 2		
9	Wight of anchor	8,8	Ton		0	0	
10	Chainwight/meter	0,15	Ton		an I an		
11	Hawsepipe/watersurface	5	Meter				
12	Totaly pengar of chain onbo		Shackle		JIS	AC14	
13	Waterdepth	30	Meter				
14	Bed	Mud	Sand/Mu		-		
15	To involve meanwind			ifwind	factor shall inc	ludes	
16	Wind	14	M/S				
17	With wind factor	21	M/S				
18			F (1)				
19		Position o	t the wes	tern bo	-		
20	Lat Long						
21	59	19,309	Meter	18	4,748		
22	Water depth			Class!	40.0		
23	Chainwight length	Chainwight length 29 Meter Slack 10,6					
24	Position of the eastern bouy Lat Long						
25 26	Lat 59	19,216		10	Long 5,128		
20	Water depth		Meter	10	5,120		
27	Chainwight length		Meter	Slack	11.3		
20	Distans between mooring without tension 398 Meter						
30	Totaly slack 21,9 Meter						
31	Course between the bouys 295,6						
52	Je block bott of the control of the						

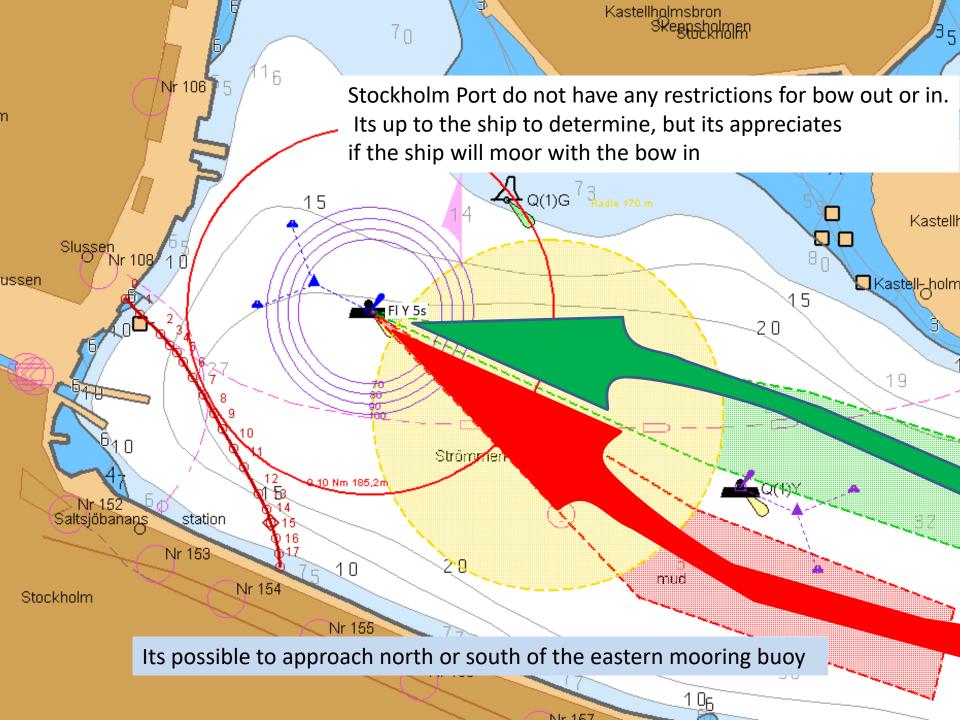
	А	В	С				
1	Provided						
2	Dist. Between the bouys	398,2	m				
3	Totaly slack	21,9	m				
4	Dist. bouy-ship-bouy, one end						
5	Dist. ship/bouy no load	52,4	m				
6	Dist. Moored	41,4	m				
7	Moring forward bouy	Fore	Aft				
8	Dist. Bouy	41,4	63,3				
9	Dist. Conn-bouy	81,4	316,8				
10	Mooring aft bouy	Fore	Aft				
11	Dist. To bouy when lines givs	41,4	52				
12	Dist. Conn-bouy	81	305,5				
13							
14	Ship course	295,6					
15	Wind dir.?	330					
16	SB/PS angle for wind	34,4					
17	Wind force	21					
18	Wind effect	137,7					
19	Wind effect long	69,5					
20	wind effect lat	118,8					
21	Strength on bouy	200					
22	Margin two bouys	281,2					

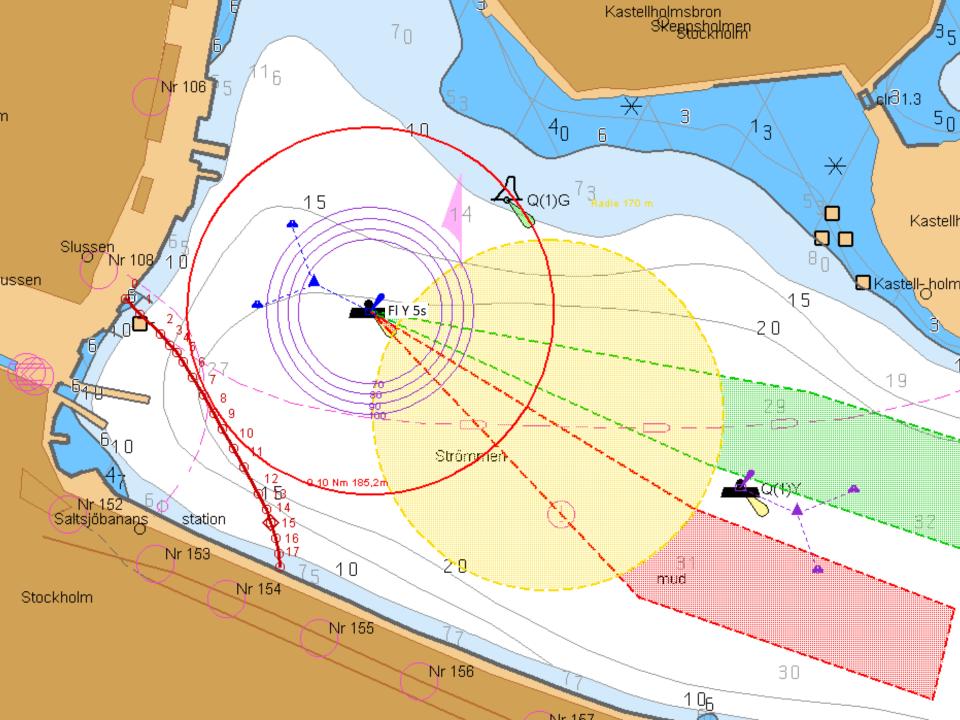
Maximum 6 lines can be used for mooring at the western buoy and 8 lines at the eastern buoy

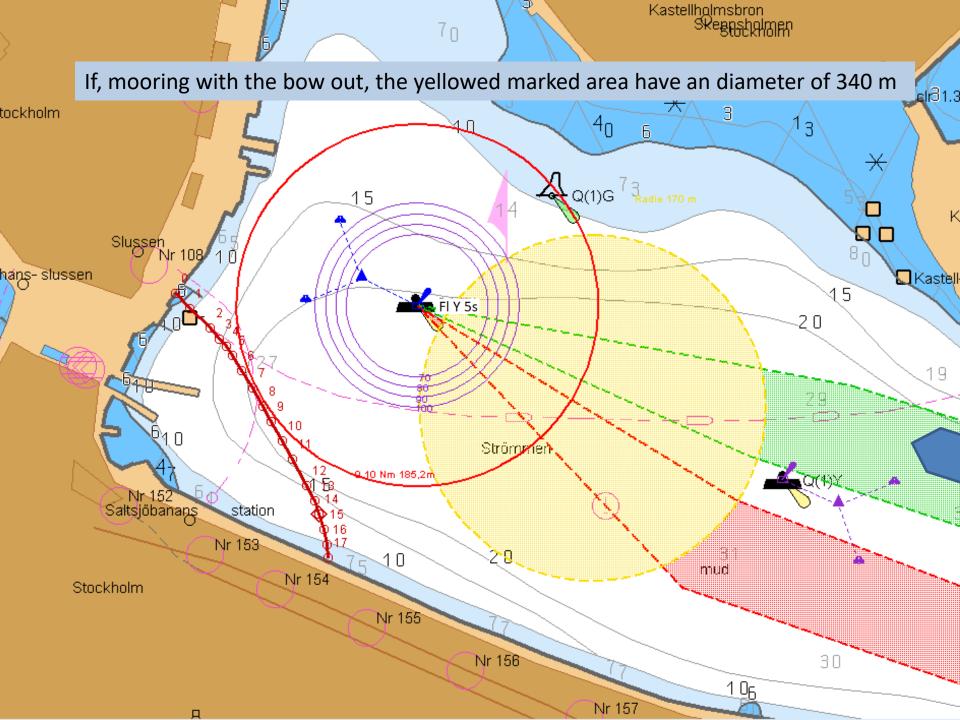
The buoys are equipped with AIS and quick release hooks (SWL 125 ton) The anchor chain is the limitation for the buoy maximum work load for the buoy is 269 tons, break load 383 ton

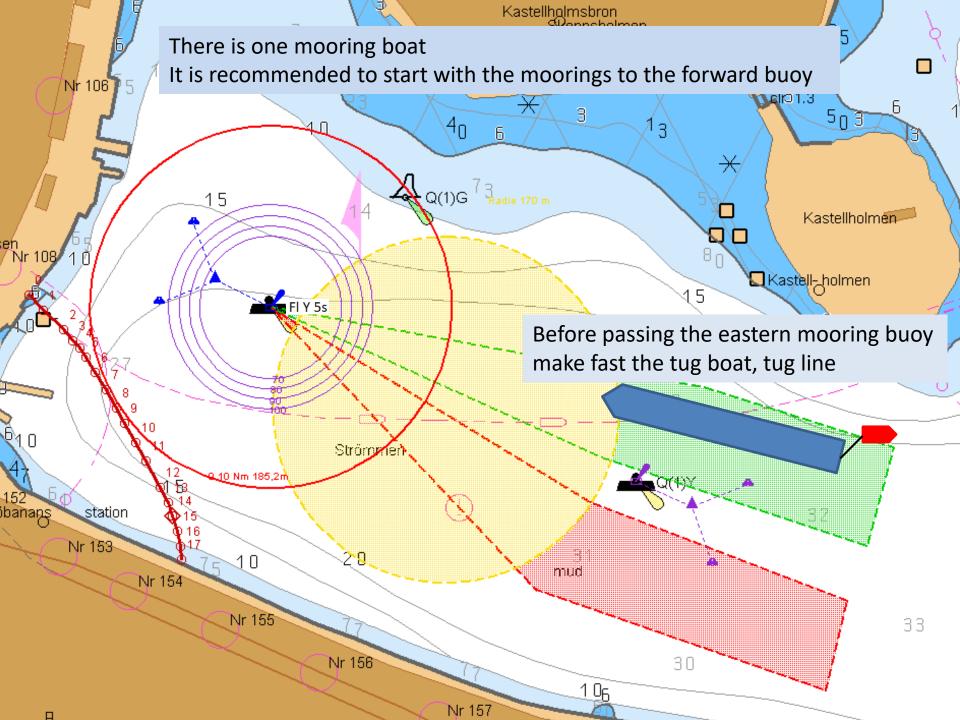




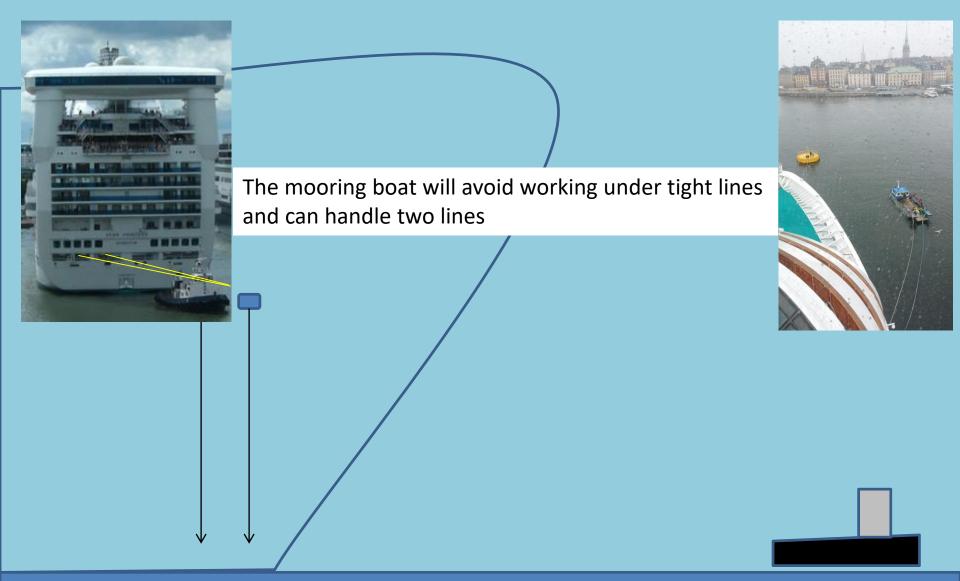


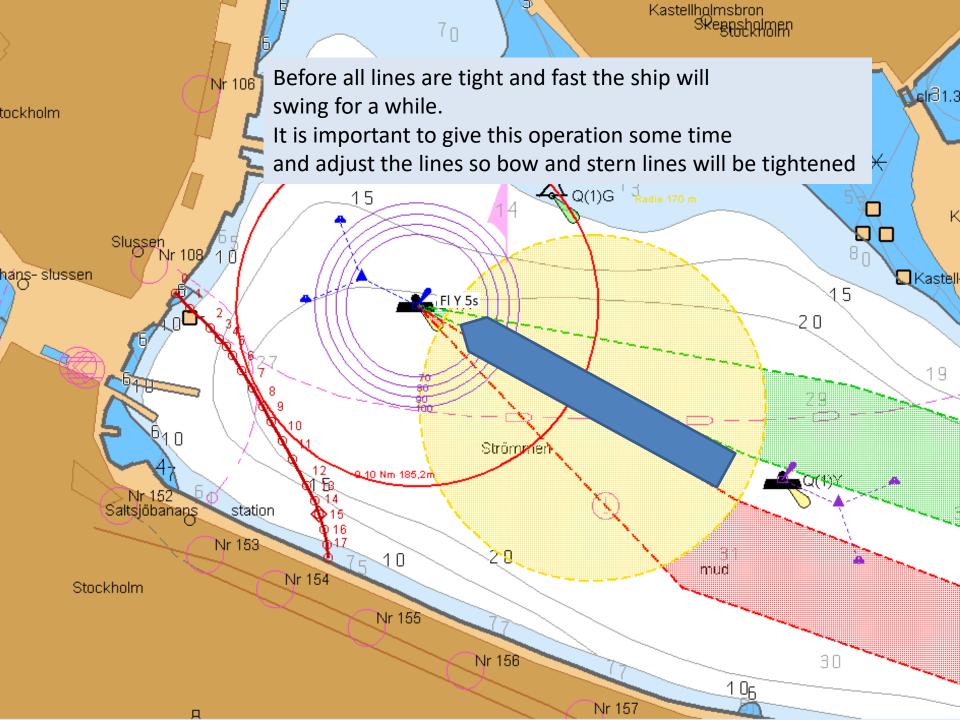


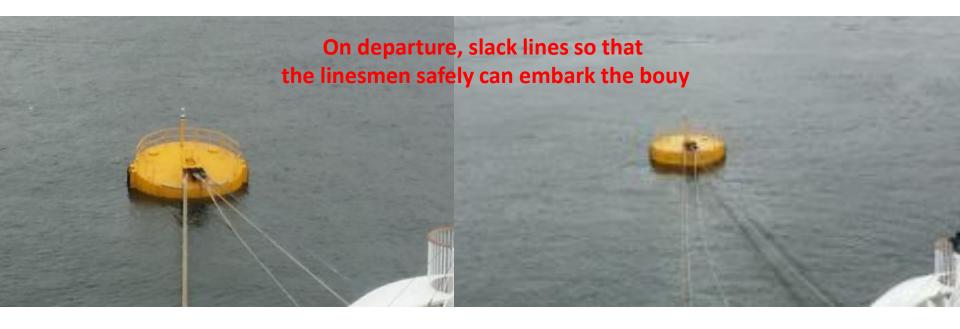




-just drop the lines, no heaving line required





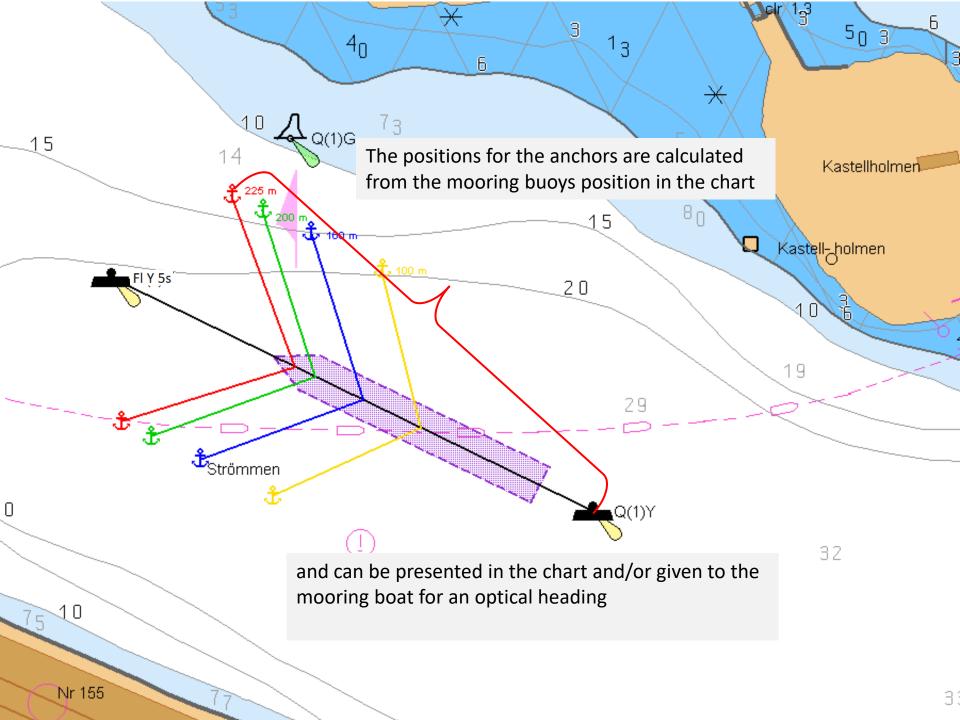


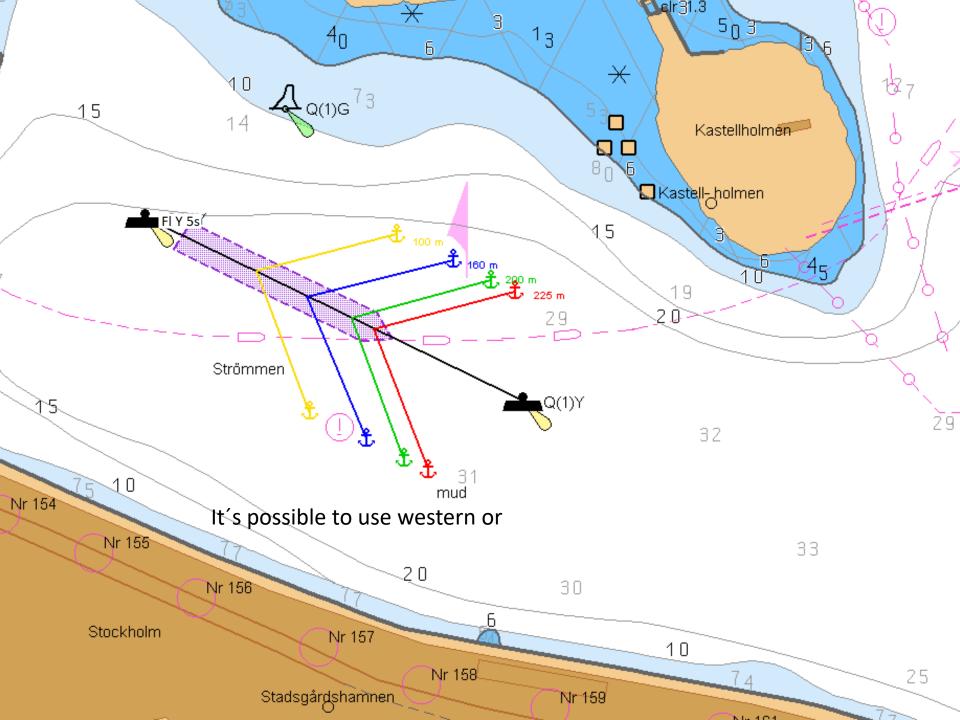
Dont let go more lines than the crew can bring in, to aviod any problems with lines in the propellers etc

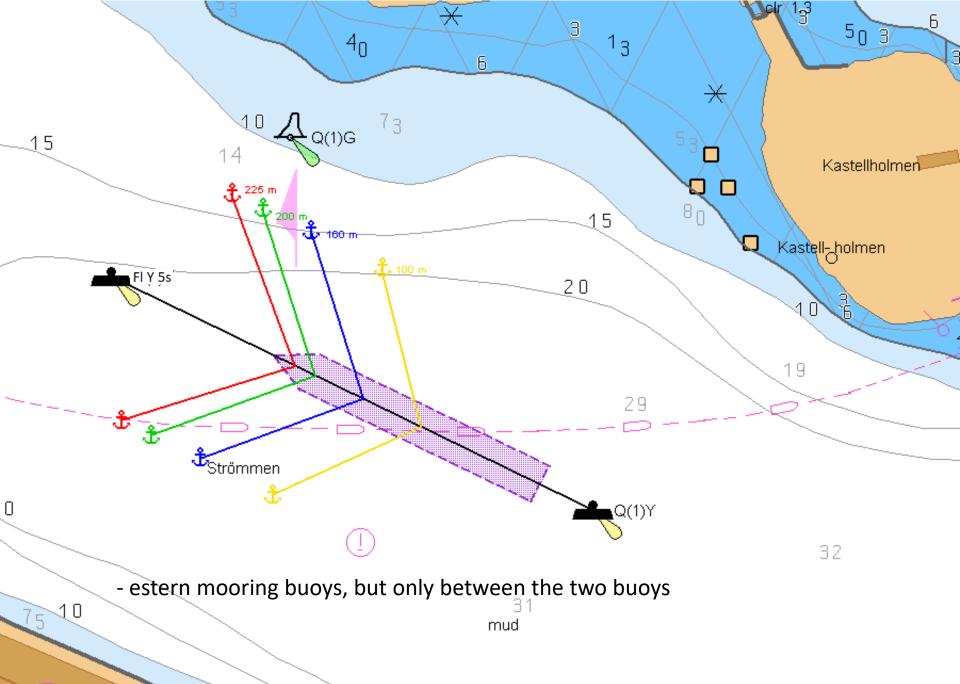
Anchor and buoy mooring at Stockholm ström

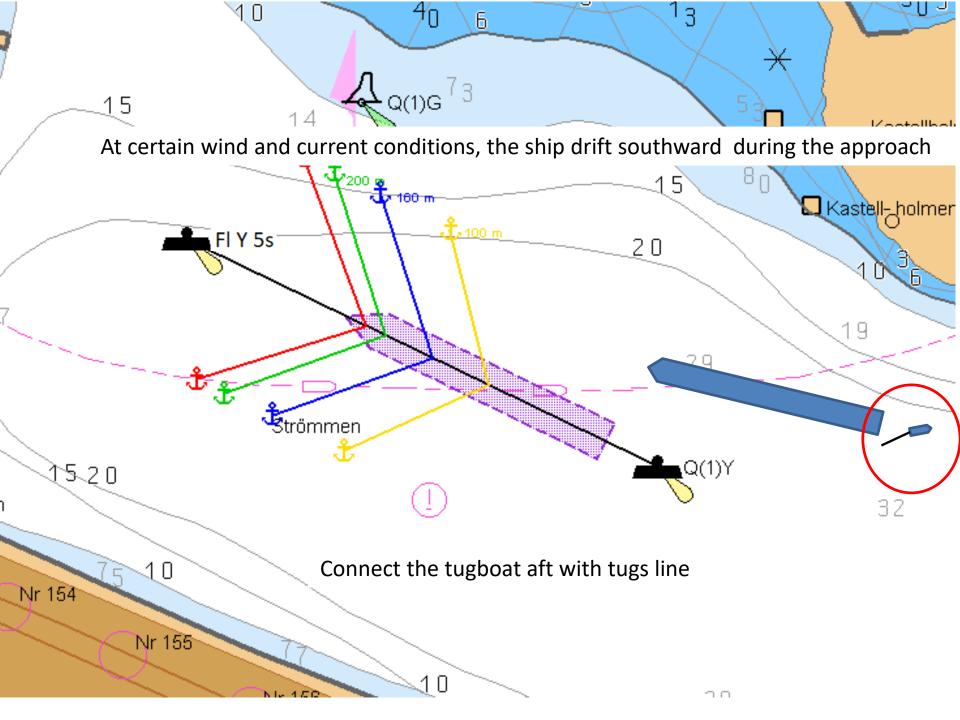
Wind restrictions anchoring at Strömmen

LOA (m)	Max wind area (m²)	Windforce (ton) at 10 m/s mean wind (max 12,5 m/s)	Limiting mean wind speed (m/s)
100	1800	19	14
160	3000	31	12
200	4200	42	12
225	5000	50	10

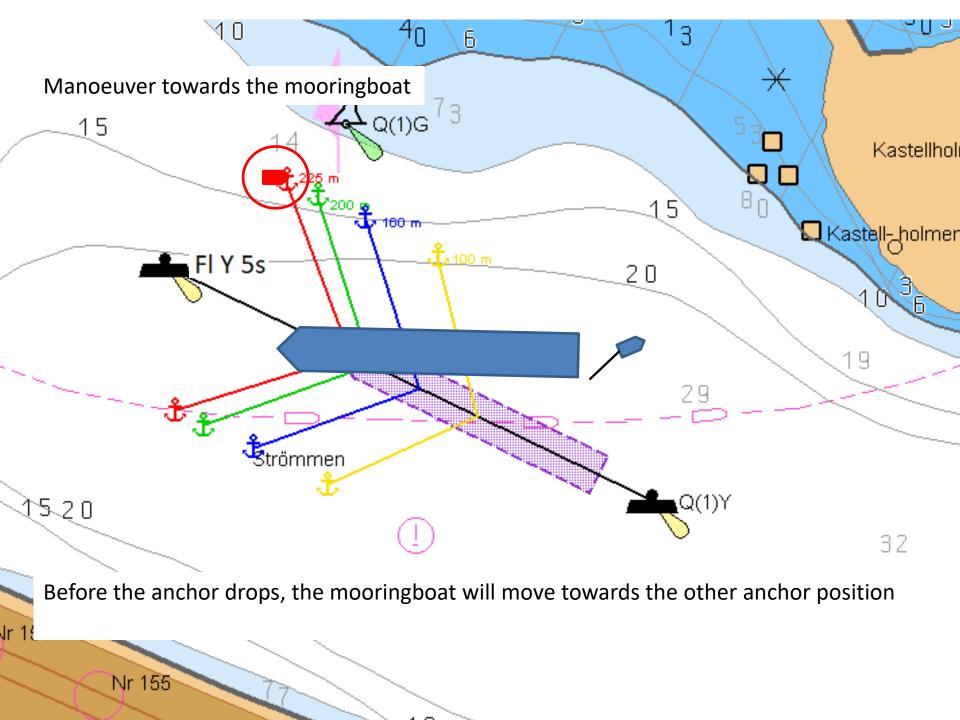


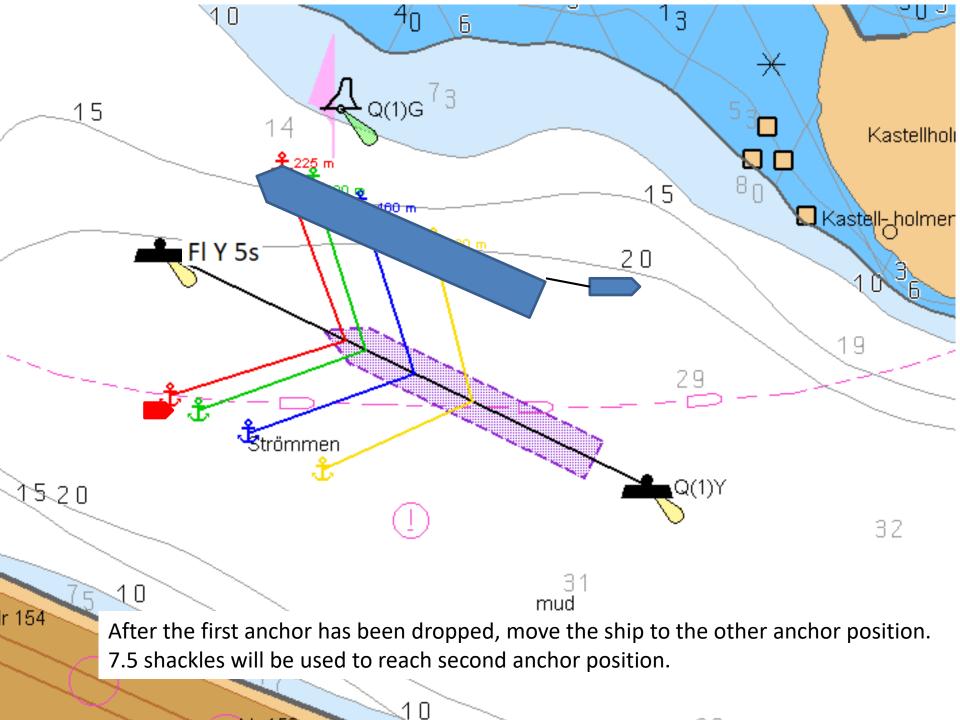


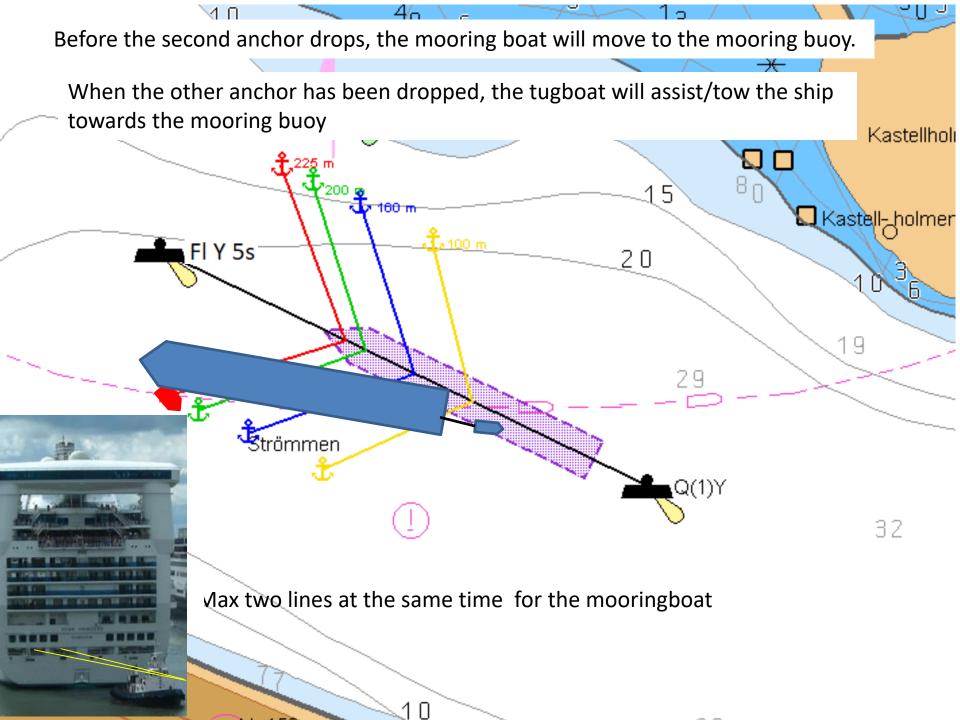












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