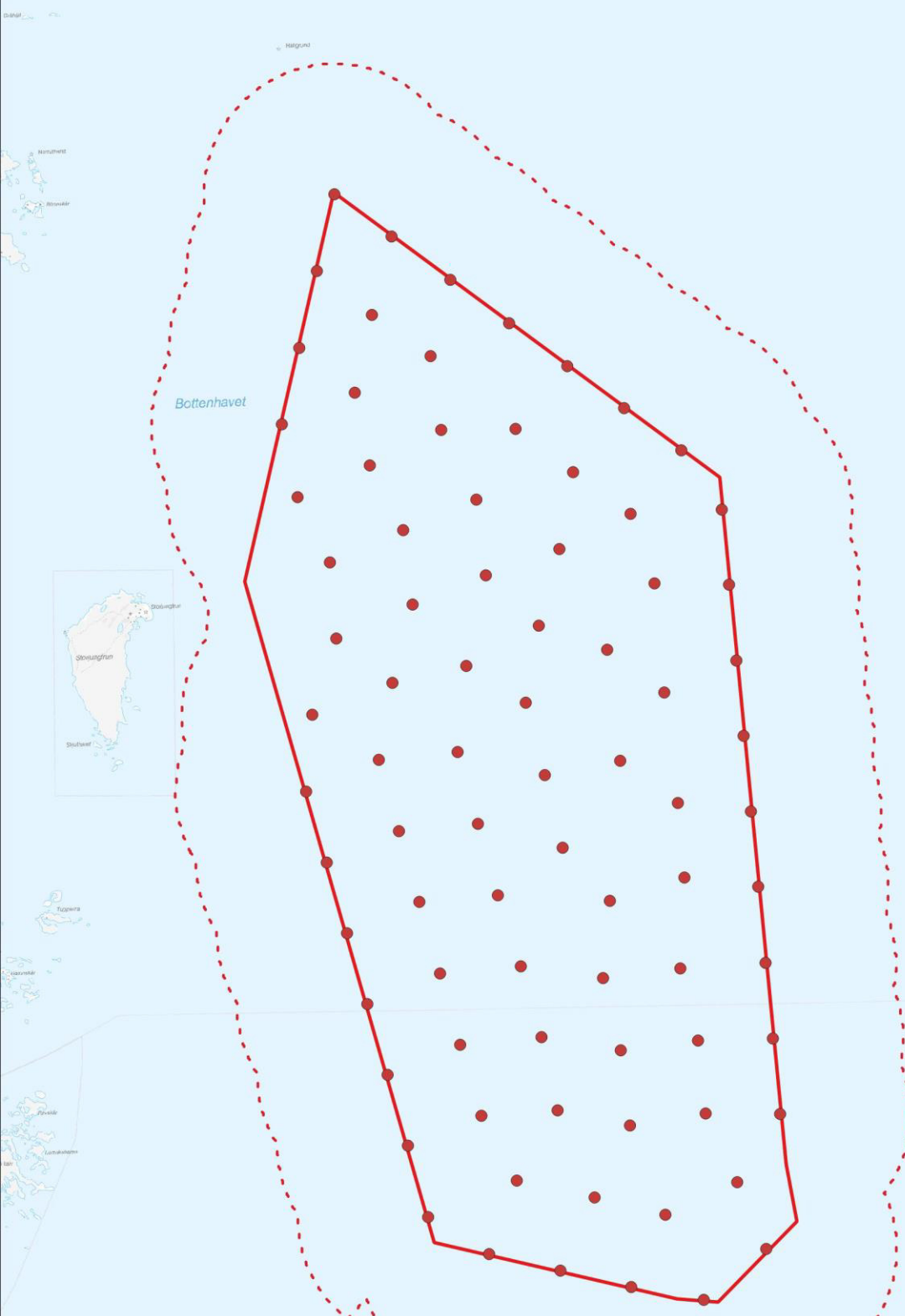


Skuggberäkning
Storgrundet Offshore AB

Teckenförklaring

-  Projektområde
 0 skuggtimmar



Syftet med skuggberäkning

Skuggberäkningar görs i samband med planering av vindkraftparker för att beräkna antalet skuggtimmar som vindkraftverken kan komma att generera. På en fastighet eller uteplats får skuggan av ett verk inte överstiga 8 timmar per år eller mer än 30 minuter per dag.

Metod

Skuggberäkningen är gjord med beräkningsprogram WindPro. Beräkningen antar att solen alltid skiner mellan gryning och skymning, att vindkraftverken alltid roterar samt att vindkraftverken står vinkelrätt mot åskådaren. Beräkningen är gjord på ett representativt exempelverk med en totalhöjd om 320 m.

Skuggberäkning

Högst antal skuggtimmar beräknas uppstå i vindkraftparker med 100 till 2 000 skuggtimmar per år. Intill verksamhetsområdet beräknas antalet timmar med skugga bli mellan 30 och 100 timmar för att sedan avta med avståndet. Omkring 2 km utanför verksamhetsområdet beräknas antal timmar med skugga under ett år uppnå mellan 0,1 – 10 timmar. En fullständig rapport följer på nästa sida.

0 3 6 9 12 km

SHADOW - Main Result

Calculation: STO_LA_worst case_2

Assumptions for shadow calculations

Maximum distance for influence

Calculate only when more than 20 % of sun is covered by the blade

Please look in WTG table

Minimum sun height over horizon for influence

3 °

Day step for calculation

1 days

Time step for calculation

1 minutes

The calculated times are "worst case" given by the following assumptions:

The sun is shining all the day, from sunrise to sunset

The rotor plane is always perpendicular to the line from the WTG to the sun

The WTG is always operating

A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:

Height contours used: GSD50 + 0m sea

Area object(s) used in calculation:

water

sks trre

Area object (:): Roughness to tree height

sks 50x50m

Obstacles used in calculation

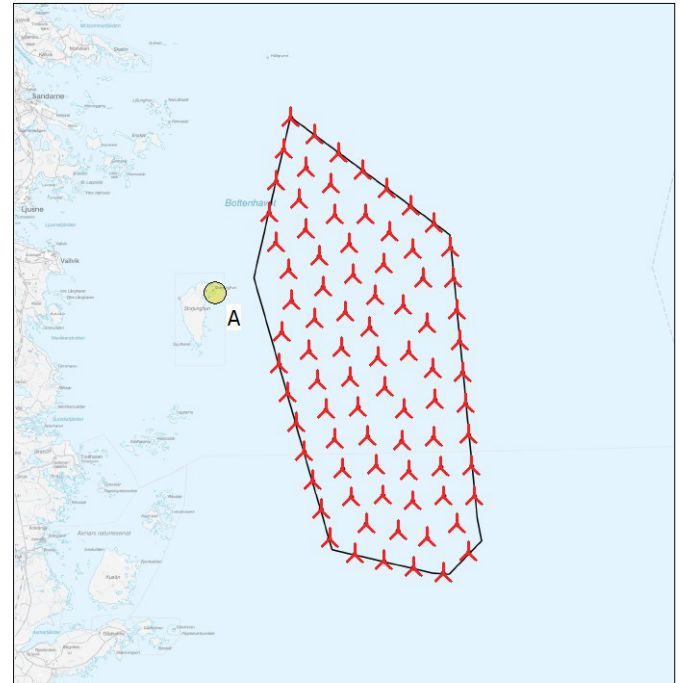
Eye height for map: 1,5 m

Grid resolution: 1,0 m

All coordinates are in

Swedish UTM 33-SWREF99 (SE)

WTGs



▲ New WTG

Scale 1:400 000

● Shadow receptor

	Easting	Northing	Z	Row data/Description	WTG type			Shadow data				
					Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Calculation distance [m]	RPM [RPM]
			[m]									
1	629 756	6 783 189	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
2	633 656	6 787 750	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
3	629 617	6 784 845	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
4	634 908	6 786 809	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
5	628 950	6 789 511	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
6	628 571	6 787 850	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
7	629 714	6 792 855	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
8	630 958	6 791 937	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
9	629 099	6 779 859	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
10	631 314	6 772 155	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
11	629 989	6 776 777	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
12	633 081	6 769 796	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
13	638 479	6 771 360	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
14	630 872	6 773 696	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
15	637 263	6 787 284	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
16	631 754	6 770 600	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
17	639 413	6 772 844	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
18	634 782	6 789 115	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
19	629 333	6 791 185	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
20	639 095	6 776 132	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
21	634 293	6 780 218	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
22	632 837	6 779 157	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
23	633 271	6 777 602	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
24	631 563	6 777 459	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
25	632 013	6 775 901	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
26	634 681	6 778 637	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
27	635 708	6 777 482	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
28	633 771	6 776 057	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
29	630 977	6 782 225	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
30	636 158	6 785 902	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
31	634 162	6 783 469	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
32	632 584	6 782 593	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	
33	632 395	6 780 720	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future	F-22 200	22 200	300,0	170,0	2 823	6,0	

To be continued on next page...

SHADOW - Main Result

Calculation: STO_LA_worst case_2

...continued from previous page

	Easting	Northing	Z	Row data/Description	WTG type			Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data	
					Valid	Manufact.	Type-generator				Calculation distance [m]	RPM
			[m]									[RPM]
34	630 681	6 780 550	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
35	631 119	6 778 998	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
36	633 878	6 781 793	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
37	638 460	6 782 710	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
38	638 301	6 784 361	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
39	638 777	6 779 427	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
40	638 618	6 781 072	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
41	631 416	6 783 929	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
42	630 485	6 786 956	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
43	634 609	6 785 136	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
44	633 009	6 784 564	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
45	629 233	6 781 531	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
46	628 913	6 786 265	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
47	636 173	6 769 079	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
48	639 255	6 774 486	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
49	639 110	6 769 908	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
50	638 936	6 777 790	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
51	638 143	6 785 993	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
52	637 751	6 768 800	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
53	637 241	6 776 011	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
54	637 330	6 777 989	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
55	635 560	6 775 801	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
56	637 626	6 774 442	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
57	637 792	6 772 855	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
58	636 679	6 784 389	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
59	635 945	6 774 229	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
60	636 892	6 782 015	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
61	635 649	6 782 945	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
62	637 188	6 779 611	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
63	635 933	6 780 529	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
64	632 913	6 772 805	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
65	632 451	6 774 350	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
66	635 376	6 771 028	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
67	633 683	6 771 395	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
68	634 571	6 772 923	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
69	634 221	6 774 516	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
70	636 146	6 772 594	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
71	636 916	6 770 652	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
72	634 632	6 769 436	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
73	631 807	6 789 334	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
74	630 531	6 790 230	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
75	633 516	6 790 049	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
76	630 158	6 788 538	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
77	632 236	6 790 994	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
78	632 038	6 787 728	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
79	636 018	6 788 202	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
80	630 431	6 775 236	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
81	629 548	6 778 315	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
82	632 803	6 786 211	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0
83	631 211	6 785 547	0,0	Future F 22200 300.0 !-! hub: 170,0...No	Future		F-22 200	22 200	300,0	170,0	2 823	6,0

Shadow receptor-Input

No.	Name	Easting	Northing	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
	A Shadow Receptor, Störungfrun öst	625 756	6 783 638	0,7	5,0	5,0	1,5	0,0	"Green house mode"	1,5

SHADOW - Main Result

Calculation: STO_LA_worst case_2

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case		
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
	A Shadow Receptor, Störungfrun öst	0:00	0	0:00

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]
1	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (866)	0:00
2	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (867)	0:00
3	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (868)	0:00
4	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (869)	0:00
5	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (870)	0:00
6	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (871)	0:00
7	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (872)	0:00
8	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (873)	0:00
9	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (874)	0:00
10	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (875)	0:00
11	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (876)	0:00
12	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (877)	0:00
13	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (878)	0:00
14	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (879)	0:00
15	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (880)	0:00
16	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (881)	0:00
17	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (882)	0:00
18	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (883)	0:00
19	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (884)	0:00
20	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (885)	0:00
21	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (886)	0:00
22	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (887)	0:00
23	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (888)	0:00
24	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (889)	0:00
25	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (890)	0:00
26	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (891)	0:00
27	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (892)	0:00
28	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (893)	0:00
29	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (894)	0:00
30	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (895)	0:00
31	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (896)	0:00
32	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (897)	0:00
33	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (898)	0:00
34	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (899)	0:00
35	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (900)	0:00
36	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (901)	0:00
37	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (902)	0:00
38	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (903)	0:00
39	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (904)	0:00
40	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (905)	0:00
41	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (906)	0:00
42	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (907)	0:00
43	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (908)	0:00
44	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (909)	0:00
45	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (910)	0:00
46	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (911)	0:00
47	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (912)	0:00
48	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (913)	0:00
49	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (914)	0:00
50	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (915)	0:00
51	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (916)	0:00
52	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (917)	0:00
53	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (918)	0:00
54	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (919)	0:00
55	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (920)	0:00
56	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (921)	0:00
57	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (922)	0:00

To be continued on next page...

SHADOW - Main Result**Calculation: STO_LA_worst case_2**

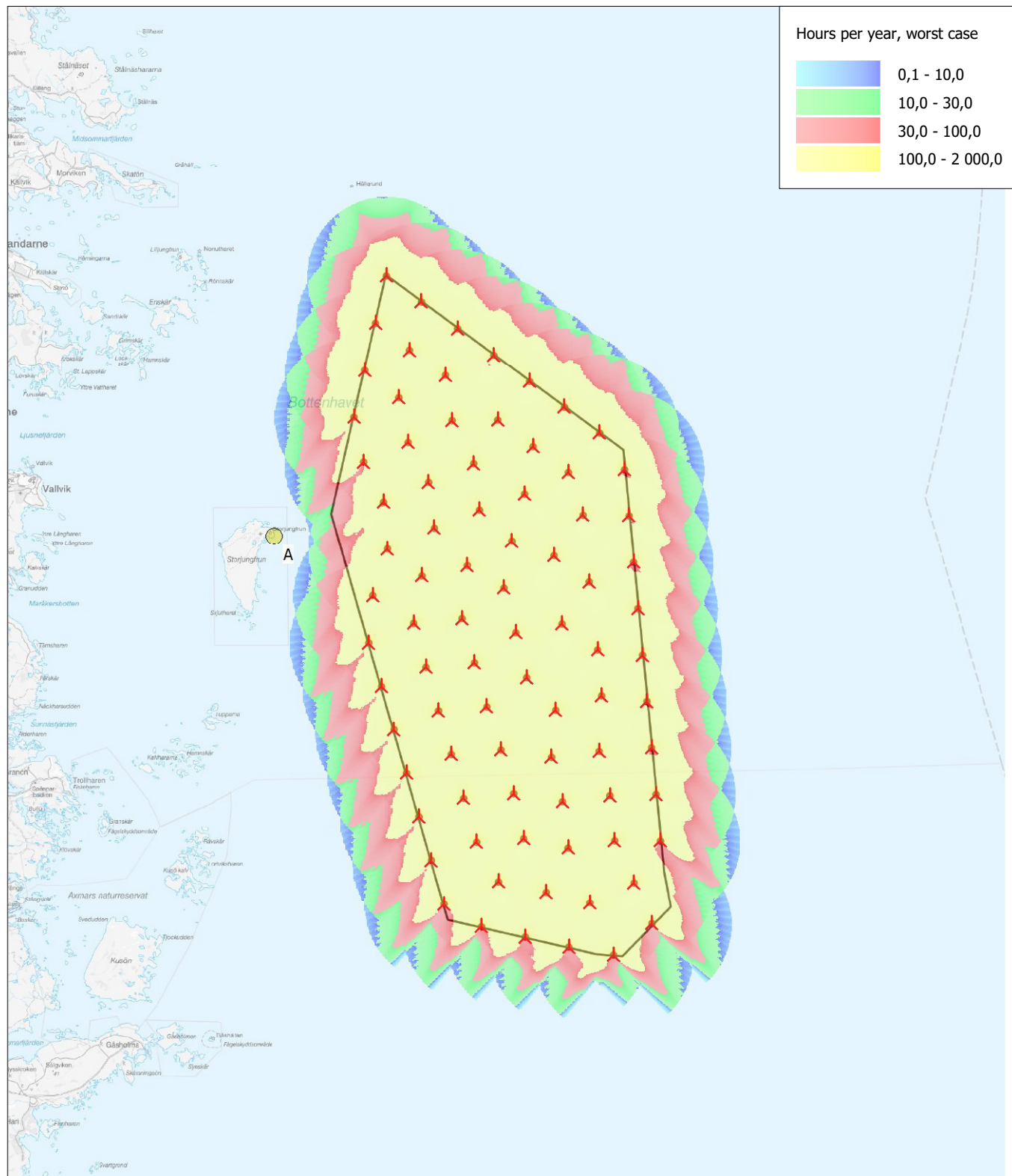
...continued from previous page

No.	Name	Worst case [h/year]
58	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (923)	0:00
59	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (924)	0:00
60	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (925)	0:00
61	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (926)	0:00
62	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (927)	0:00
63	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (928)	0:00
64	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (929)	0:00
65	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (930)	0:00
66	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (931)	0:00
67	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (932)	0:00
68	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (933)	0:00
69	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (934)	0:00
70	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (935)	0:00
71	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (936)	0:00
72	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (937)	0:00
73	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (938)	0:00
74	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (939)	0:00
75	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (940)	0:00
76	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (941)	0:00
77	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (942)	0:00
78	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (943)	0:00
79	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (944)	0:00
80	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (945)	0:00
81	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (946)	0:00
82	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (947)	0:00
83	Future F 22200 300.0 !-! hub: 170,0 m (TOT: 320,0 m) (948)	0:00

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

SHADOW - Map

Calculation: STO_LA_worst case_2



Map: Bitmap map: STO_Lantmäteriet grå.jpg , Print scale 1:200 000, Map center Swedish UTM 33-SWREF99 (SE) East: 634 200 North: 6 781 620

🚧 New WTG

👤 Shadow receptor

Flicker map level: GSD50 + 0m sea