



Symphony

Integrerat planeringsstöd för svensk havsplanering

Västerhavet

S3 Utblick 2030

Teknisk rapport till Havs- och vattenmyndigheten

Samrådsversion år 2018

2018-03-23

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Samrådsversion år 2018

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Uppdragsgivare: Havs- och vattenmyndigheten

Utförare: Medins Havs och Vattenkonsulter AB
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Tel +46 31-338 35 40 | www.medinsab.se | Org. nr 556389-2545

Författare: Martin Mattsson, Jonatan Hammar och Jenny Palmkvist

Bilder: Omslaget visar Symphony Nuläge

Denna katalog är en del av Symphony

Metodbeskrivning publiceras i Havs- och vattenmyndighetens rapport 2018:1. Katalogen är ett renodlat planeringsstöd. Denna version (S3) visar en utblick mot år 2030.

Analyser av kumulativ miljöpåverkan har gjorts genom Symphony. Beräkningar har utförts i SyM som är utvecklad av Medins Havs och Vattenkonsulter AB.

Katalogen har tagits fram av Martin Mattsson, Jonatan Hammar och Jenny Palmkvist.

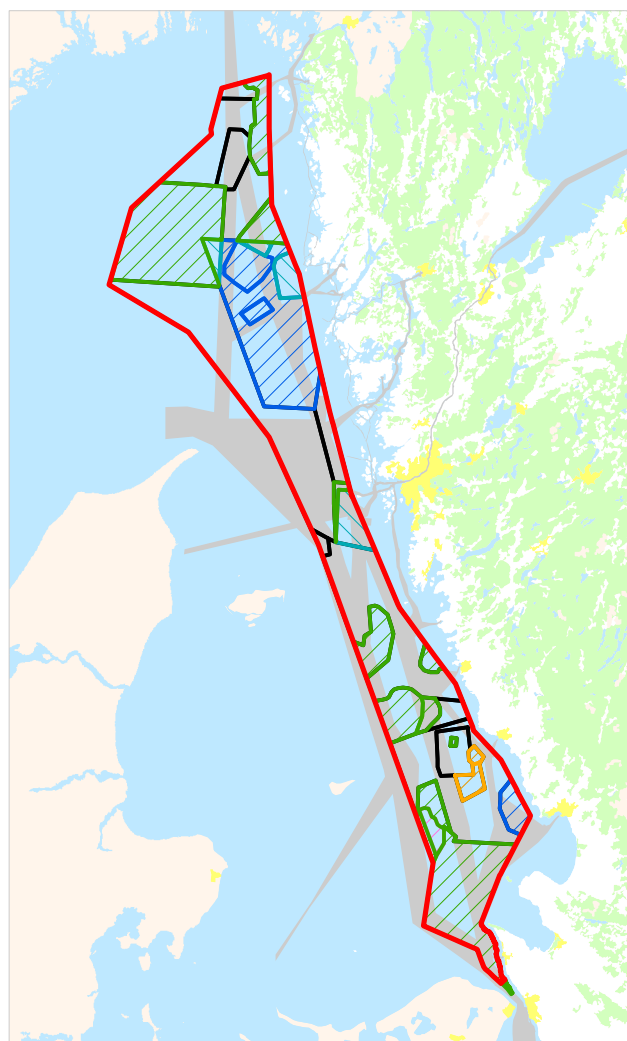
I rapporten benämns scenarierna (S) enligt följande:

S1 Nuläge

S2 Nuläge plan

S3 Utblick 2030

S4 Utblick 2030 med plan

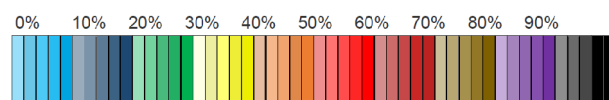


Västerhavet	
Miljöpåverkan i området jämfört med medelvärde för:	
S3 Västerhavet	100%
S3 Västerhavet	100%
S1 Nuläge	102%

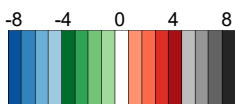
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

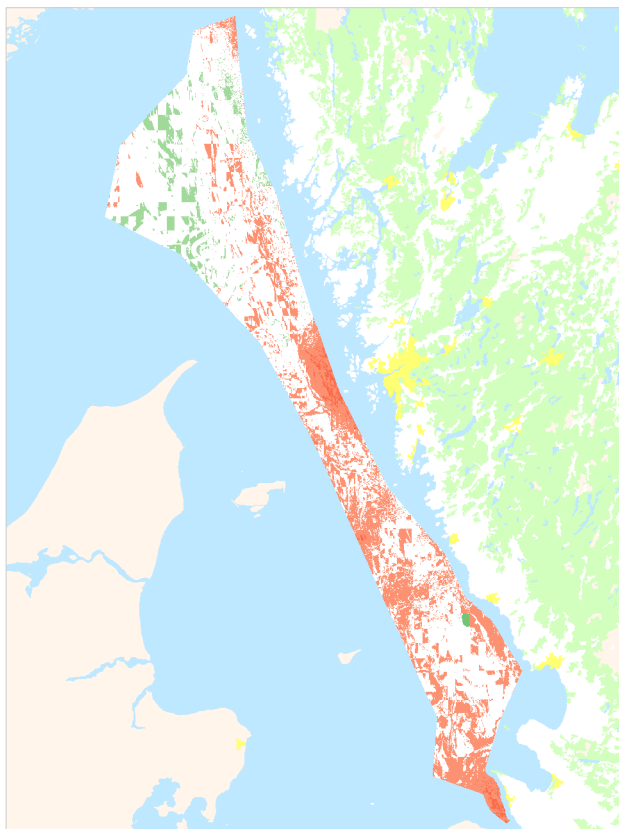
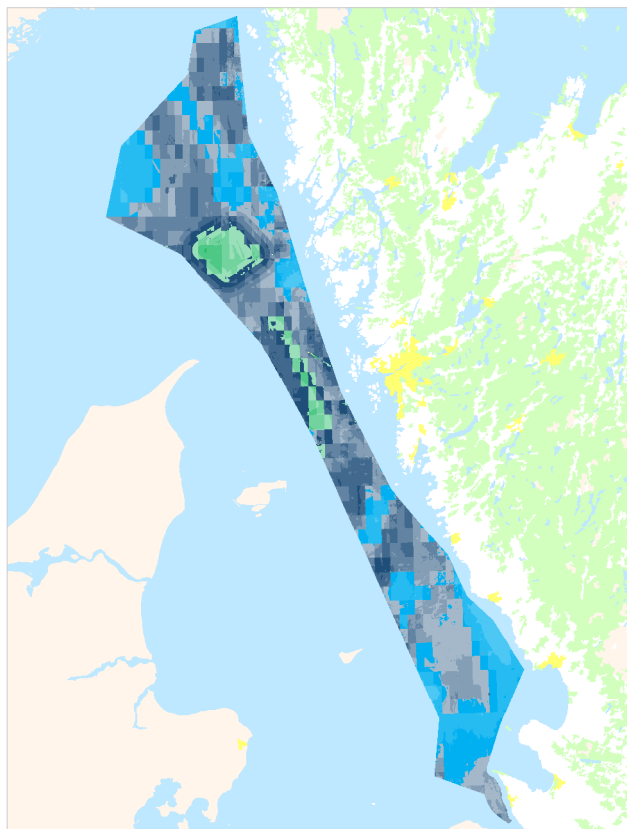


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.22	(2.26)
Anoxia Background	3.13	(3.2)
Nitrogen Background	20.97	(21.37)
Total	26.32	(26.84)
General pollution		
Tox Metal Background	2.29	(2.34)
Oilspill 2knots Wreck	0.58	(0.6)
Tox Synthetic Background	10.49	(10.69)
Tox Munition	3.82	(3.89)
Tox Mine Risk	0.23	(0.23)
Total	17.41	(17.75)
Shipping		
Turbidity Shipping	0.02	(0.01)
Noise 2000Hz Shipping	0.02	(0.02)
Oilspill 2knots Shipping	1.98	(1.61)
Noise 125Hz Shipping	11.06	(7.52)
Total	13.08	(9.16)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.01	(0.01)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.01	(0.01)
Recreational activities		
Boating Pollution	0.07	(0.07)
Boating Noise	0.02	(0.02)
Birdhunt	0.05	(0.05)
Total	0.14	(0.14)
Fisheries		
Abrasion Bottomtrawl	21.05	(22.59)
Catch Gillnet	0.43	(0.46)
Turbidity Bottom trawl	9.45	(10.14)
Catch Bottom trawl	11.19	(12.01)
Catch Pelagic trawl	0.2	(0.21)
Total	42.33	(45.42)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.02	(0.02)
Explosion SPL	0.68	(0.66)
Explosion PM	0.0	(0.0)
Total	0.7	(0.68)
Aquaculture		
Habitatloss Musselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.01	(0.01)
Total	0.01	(0.01)

Västerhavet

Cumulative Effect

	S3	(S1)
Total	3748885086.4	(3677103178.0)
Mean	24089.8	(23628.6)
Std. Dev.	8377.6	(8624.0)
Min	5259.7	(5112.1)
Max	66814.7	(63251.5)
Area km²	9727.68	

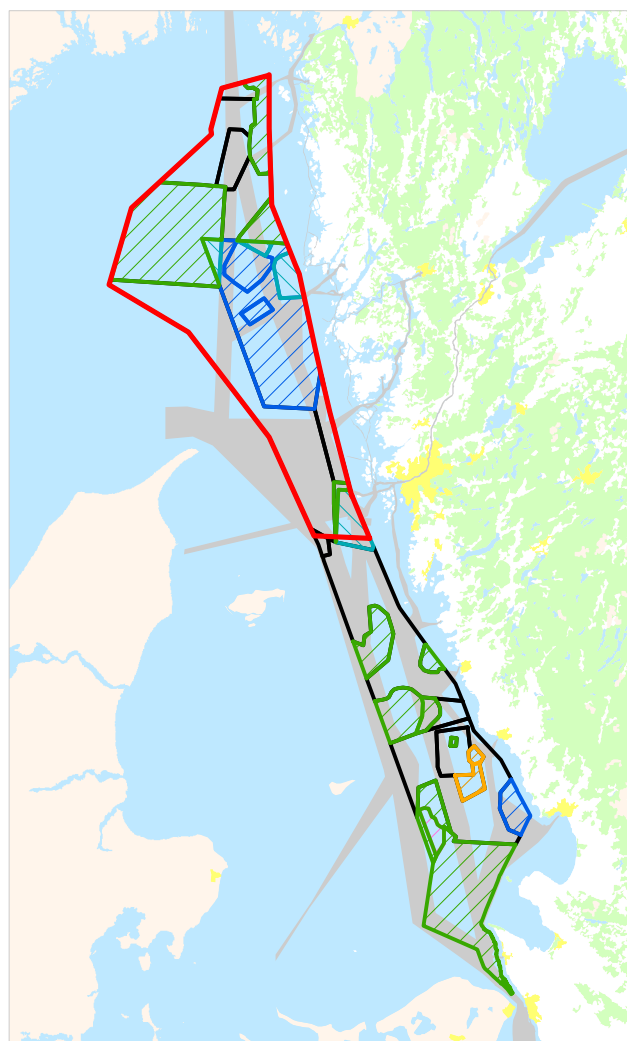
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	18.95	(19.55)
Spawning Fish	14.66	(14.95)
Cod	12.63	(12.41)
Softbottom Aphotic	10.81	(10.98)
Porpoise Northsea	9.49	(9.41)
Plankton Community	9.27	(9.5)
Herring	6.63	(6.38)
Harbour Seals	4.89	(4.83)
Sprat	3.5	(3.21)
Softbottom Photoc	2.23	(2.2)
Porpoise Beltsea	1.85	(1.75)
Transportbottom Aphotic	1.42	(1.42)
Transportbottom Photoc	0.82	(0.76)
Eel Migration	0.67	(0.54)
Seabird Winter Offshore	0.6	(0.52)
Transportbottom Deep	0.47	(0.48)
Hardbottom Deep	0.38	(0.39)
Hardbottom Aphotic	0.26	(0.27)
Hardbottom Photoc	0.23	(0.22)
Birds Coastal	0.1	(0.09)
Deep Reef	0.09	(0.1)
Artificial Reefs Total	0.03	(0.03)
Seabird Winter Coastal	0.02	(0.02)
Mussel Reefs Total	0.02	(0.02)
Haploops Reef	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB

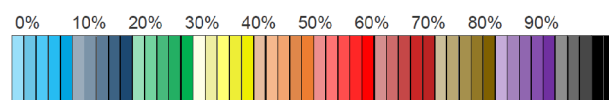


Skagerrak	
Miljöpåverkan i området jämfört med medelvärde för:	
S3 Skagerrak	100%
S3 Västerhavet	109%
S1 Nuläge	101%

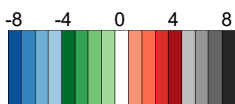
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

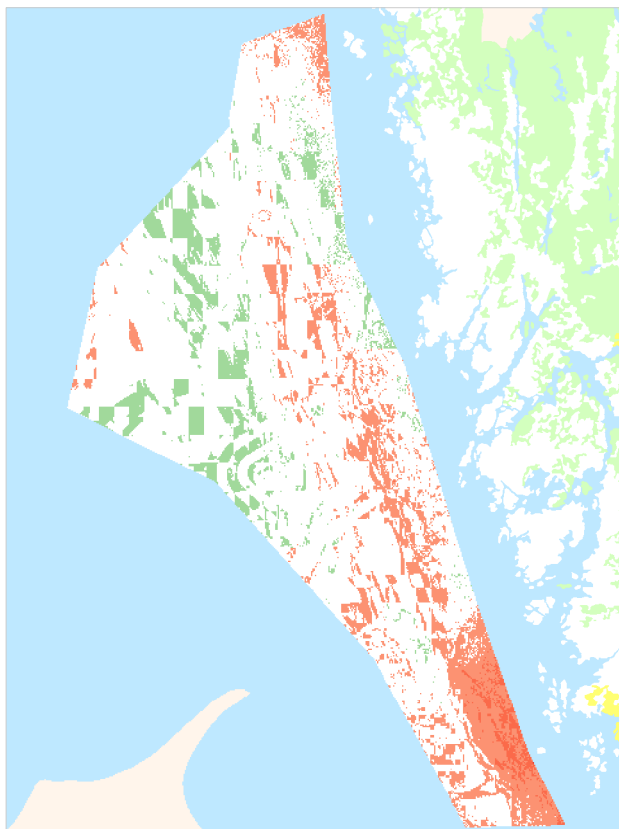
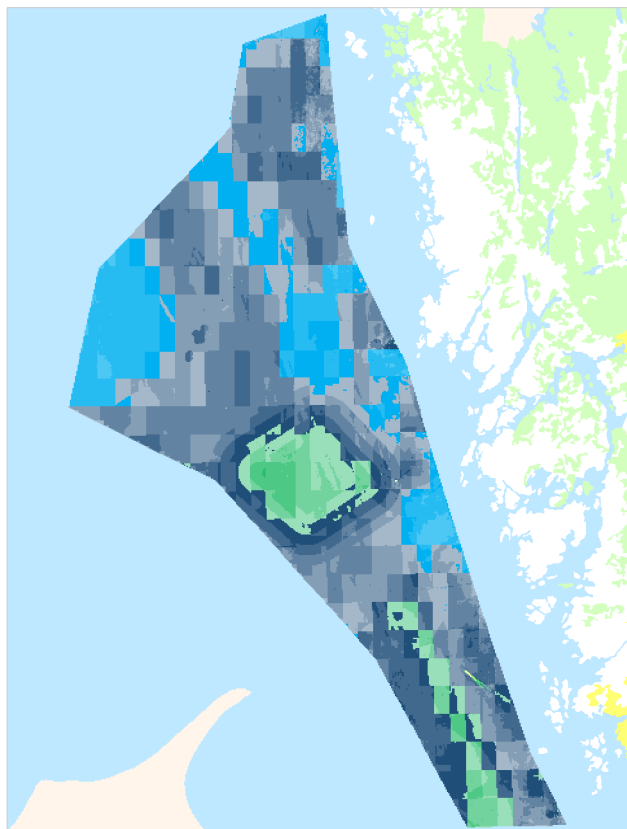


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	1.92	(1.93)
Anoxia Background	0.73	(0.74)
Nitrogen Background	19.71	(19.83)
Total	22.36	(22.5)
General pollution		
Tox Metal Background	1.72	(1.73)
Oilspill 2knots Wreck	0.65	(0.66)
Tox Synthetic Background	11.29	(11.36)
Tox Munition	5.93	(5.96)
Tox Mine Risk	0.23	(0.23)
Total	19.83	(19.95)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.01	(0.01)
Oilspill 2knots Shipping	1.76	(1.42)
Noise 125Hz Shipping	7.98	(5.35)
Total	9.75	(6.78)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.06	(0.06)
Boating Noise	0.02	(0.02)
Birdhunt	0.03	(0.03)
Total	0.12	(0.12)
Fisheries		
Abrasion Bottomtrawl	22.67	(24.01)
Catch Gillnet	0.6	(0.63)
Turbidity Bottom trawl	10.65	(11.28)
Catch Bottom trawl	12.69	(13.44)
Catch Pelagic trawl	0.26	(0.27)
Total	46.87	(49.64)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	1.06	(1.02)
Explosion PM	0.0	(0.0)
Total	1.06	(1.02)
Aquaculture		
Habitatloss Musselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

Skagerrak

Cumulative Effect

	S3	(S1)
Total	2412730268.0	(2398142763.6)
Mean	26375.8	(26216.4)
Std. Dev.	8695.6	(8809.6)
Min	5259.7	(5112.1)
Max	66814.7	(63251.5)
Area km²	5716.9	

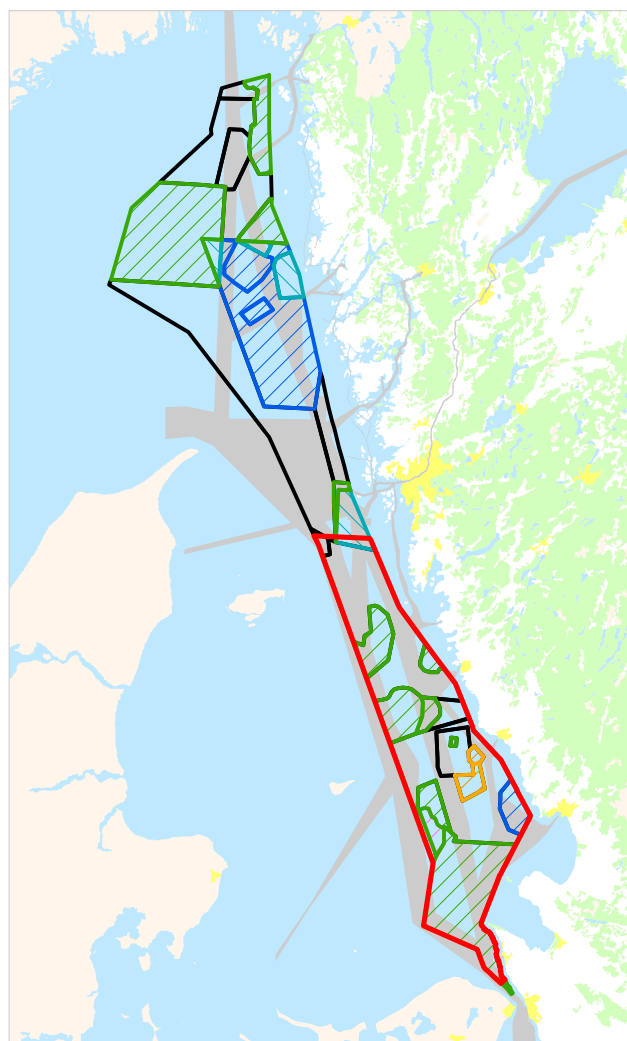
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	27.5	(28.03)
Spawning Fish	15.57	(15.82)
Cod	13.06	(12.89)
Porpoise Northsea	11.3	(11.14)
Plankton Community	9.41	(9.54)
Herring	7.94	(7.63)
Harbour Seals	4.86	(4.8)
Softbottom Aphotic	4.34	(4.4)
Sprat	3.4	(3.13)
Transportbottom Deep	0.68	(0.68)
Transportbottom Aphotic	0.64	(0.65)
Hardbottom Deep	0.44	(0.44)
Hardbottom Aphotic	0.39	(0.4)
Deep Reef	0.12	(0.13)
Eel Migration	0.11	(0.09)
Birds Coastal	0.1	(0.08)
Hardbottom Photic	0.06	(0.06)
Artificial Reefs Total	0.02	(0.02)
Mussel Reefs Total	0.02	(0.02)
Transportbottom Photic	0.02	(0.02)
Softbottom Photic	0.01	(0.01)
Seabird Winter Coastal	0.01	(0.01)
Seabird Winter Offshore	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Angiosperms	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Grey Seals	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB

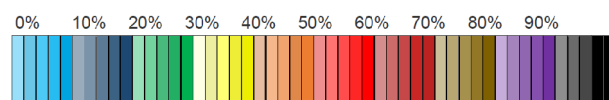


Kattegatt	
Miljöpåverkan i området jämfört med medelvärde för:	
S3 Kattegatt	100%
S3 Västerhavet	86%
S1 Nuläge	104%

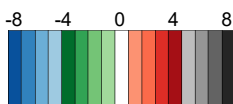
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

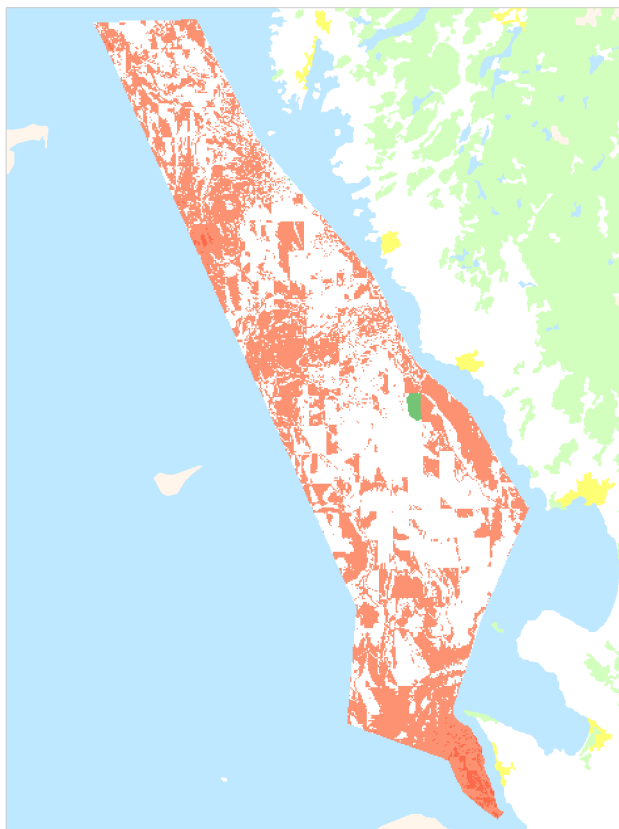
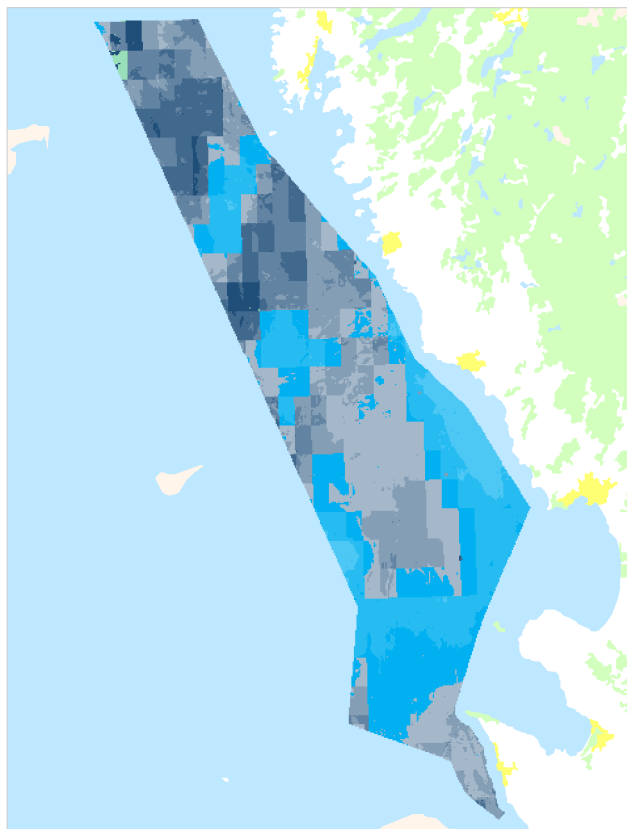


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.76	(2.89)
Anoxia Background	7.47	(7.8)
Nitrogen Background	23.24	(24.28)
Total	33.47	(34.97)
General pollution		
Tox Metal Background	3.32	(3.47)
Oilspill 2knots Wreck	0.46	(0.48)
Tox Synthetic Background	9.03	(9.44)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.22	(0.23)
Total	13.04	(13.62)
Shipping		
Turbidity Shipping	0.05	(0.04)
Noise 2000Hz Shipping	0.05	(0.03)
Oilspill 2knots Shipping	2.38	(1.99)
Noise 125Hz Shipping	16.62	(11.58)
Total	19.1	(13.63)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.03	(0.03)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.03	(0.03)
Recreational activities		
Boating Pollution	0.07	(0.07)
Boating Noise	0.02	(0.02)
Birdhunt	0.07	(0.08)
Total	0.16	(0.17)
Fisheries		
Abrasion Bottomtrawl	18.12	(19.93)
Catch Gillnet	0.14	(0.15)
Turbidity Bottom trawl	7.28	(8.0)
Catch Bottom trawl	8.48	(9.33)
Catch Pelagic trawl	0.1	(0.11)
Total	34.12	(37.52)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.05	(0.05)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.05	(0.05)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.01	(0.0)
Noise 125Hz Windpower	0.01	(0.0)
EMF	0.02	(0.02)
Total	0.04	(0.02)

Kattegatt

Cumulative Effect

	S3	(S1)
Total	1336154818.4	(1278960414.4)
Mean	20829.9	(19938.3)
Std. Dev.	6660.6	(6825.7)
Min	8297.0	(7379.2)
Max	42124.5	(42395.0)
Area km²	4010.9	

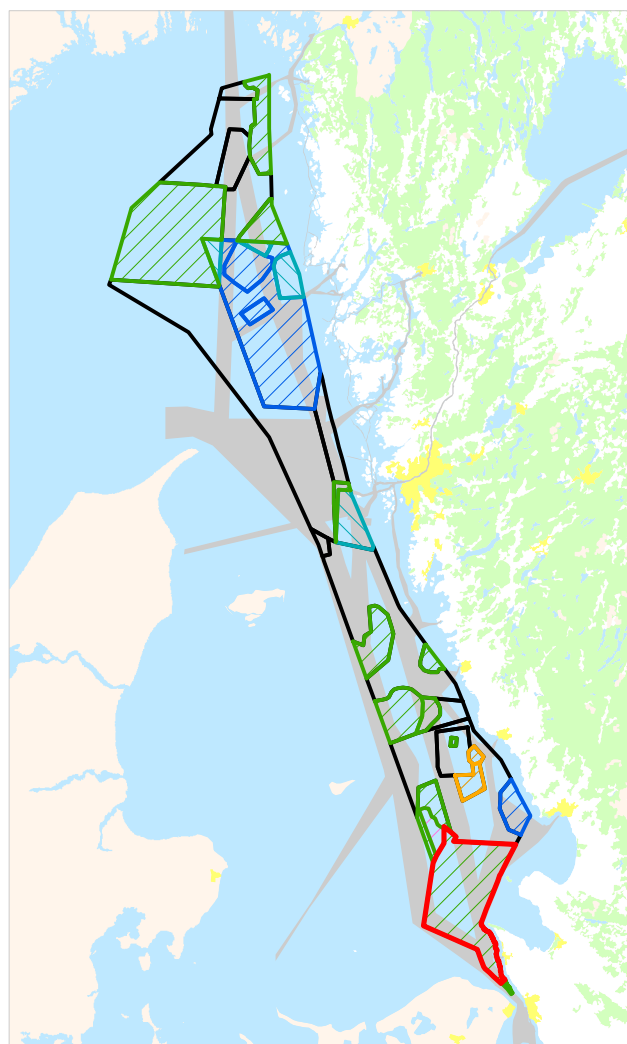
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	22.49	(23.31)
Spawning Fish	13.0	(13.31)
Cod	11.83	(11.5)
Plankton Community	9.01	(9.41)
Softbottom Photoc	6.23	(6.3)
Porpoise Northsea	6.22	(6.17)
Porpoise Beltsea	5.19	(5.04)
Harbour Seals	4.95	(4.89)
Herring	4.25	(4.02)
Sprat	3.68	(3.34)
Softbottom Deep	3.52	(3.66)
Transportbottom Aphotic	2.82	(2.85)
Transportbottom Photoc	2.27	(2.15)
Seabird Winter Offshore	1.69	(1.49)
Eel Migration	1.67	(1.39)
Hardbottom Photoc	0.52	(0.51)
Hardbottom Deep	0.28	(0.29)
Transportbottom Deep	0.11	(0.11)
Birds Coastal	0.11	(0.1)
Seabird Winter Coastal	0.04	(0.04)
Artificial Reefs Total	0.04	(0.03)
Deep Reef	0.03	(0.03)
Hardbottom Aphotic	0.02	(0.03)
Mussel Reefs Total	0.02	(0.02)
Haploops Reef	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Grey Seals	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V300_N

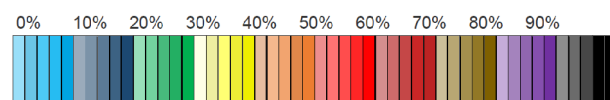
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	73%
S3 Kattegatt	84%
S1 Nuläge	108%

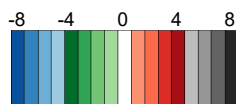
Områden och huvudanvändning



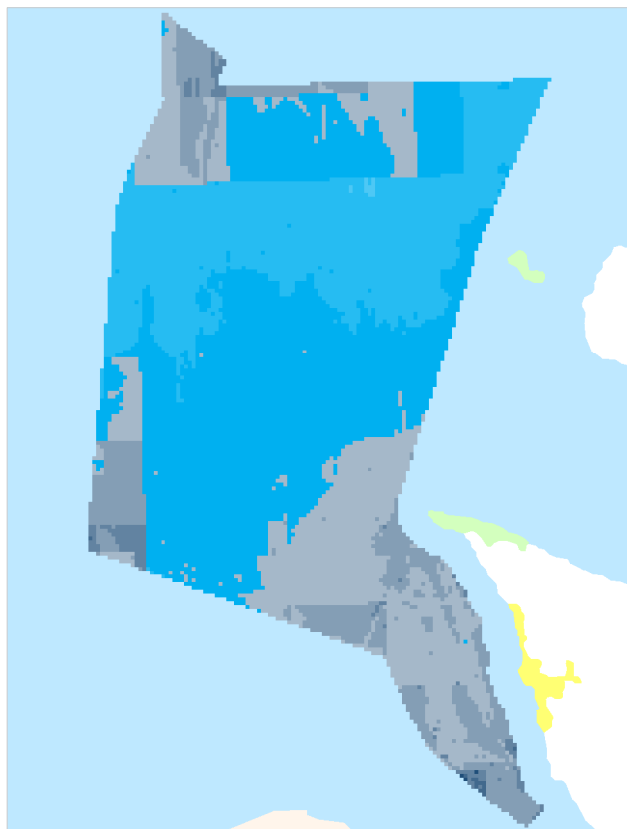
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



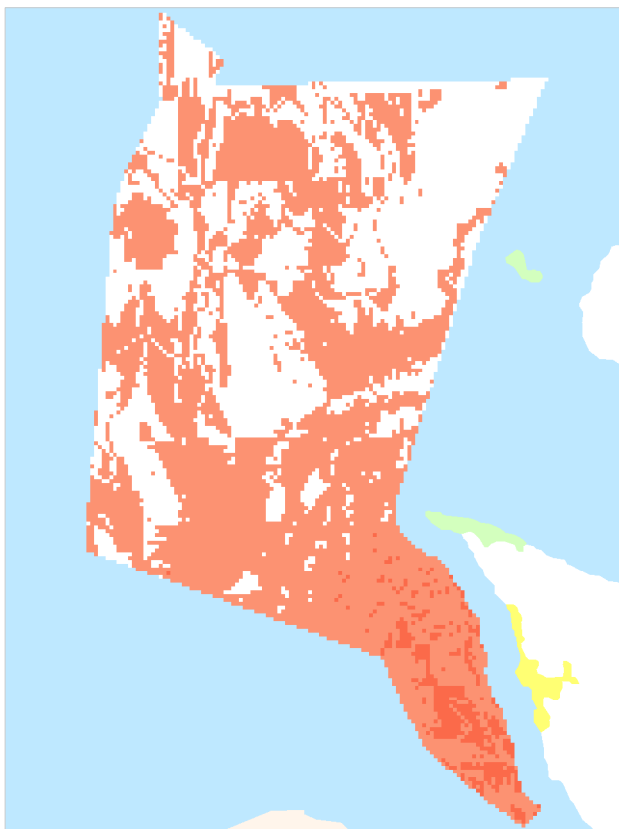
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	3.36	(3.62)
Anoxia Background	12.83	(13.82)
Nitrogen Background	28.09	(30.26)
Total	44.27	(47.69)
General pollution		
Tox Metal Background	6.2	(6.68)
Oilspill 2knots Wreck	2.07	(2.23)
Tox Synthetic Background	10.63	(11.45)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	18.9	(20.36)
Shipping		
Turbidity Shipping	0.17	(0.12)
Noise 2000Hz Shipping	0.19	(0.14)
Oilspill 2knots Shipping	3.01	(2.6)
Noise 125Hz Shipping	21.13	(15.18)
Total	24.51	(18.04)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.35	(0.36)
Boating Noise	0.11	(0.11)
Birdhunt	0.13	(0.14)
Total	0.59	(0.61)
Fisheries		
Abrasion Bottomtrawl	7.21	(8.18)
Catch Gillnet	0.15	(0.17)
Turbidity Bottom trawl	1.99	(2.25)
Catch Bottom trawl	2.38	(2.69)
Catch Pelagic trawl	0.0	(0.0)
Total	11.72	(13.3)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Musselselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V300_N

Cumulative Effect

	S3	(S1)
Total	244940165.9	(227367373.9)
Mean	17547.1	(16288.2)
Std. Dev.	3827.4	(3631.4)
Min	10458.9	(9442.1)
Max	36374.8	(33489.8)
Area km²	872.74	

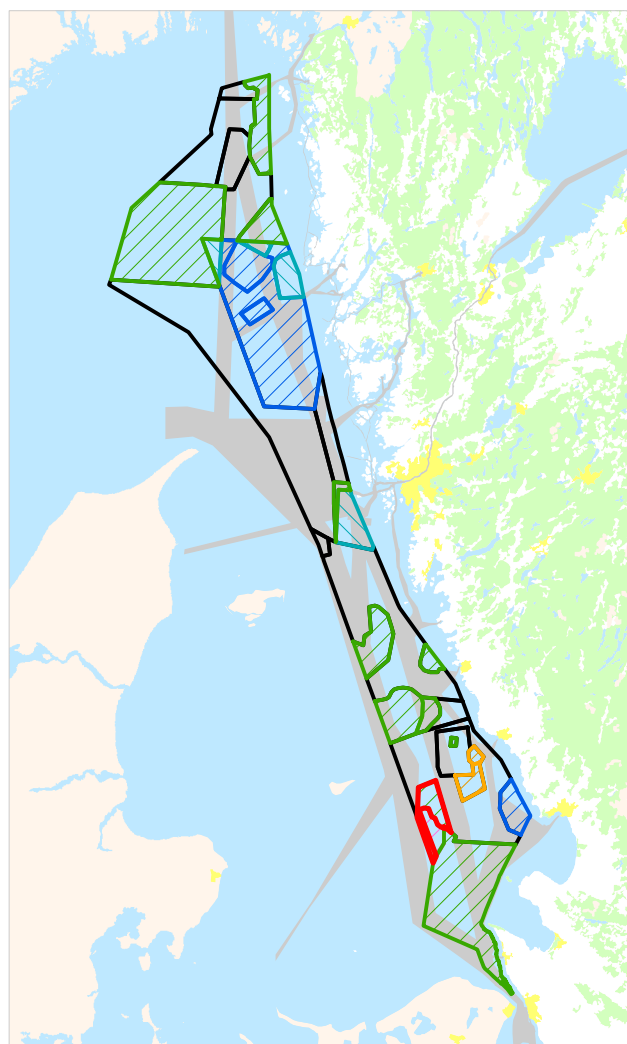
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	17.34	(17.98)
Spawning Fish	15.03	(15.54)
Cod	13.81	(13.4)
Softbottom Photoc	12.44	(12.74)
Porpoise Beltsea	10.2	(9.94)
Plankton Community	9.19	(9.78)
Harbour Seals	5.15	(4.97)
Seabird Winter Offshore	4.42	(4.02)
Transportbottom Aphotic	3.27	(3.28)
Transportbottom Photoc	2.66	(2.62)
Eel Migration	2.5	(2.07)
Sprat	1.93	(1.73)
Herring	1.36	(1.27)
Hardbottom Photoc	0.27	(0.27)
Seabird Winter Coastal	0.13	(0.12)
Birds Coastal	0.09	(0.09)
Artificial Reefs Total	0.09	(0.09)
Hardbottom Deep	0.09	(0.09)
Mussel Reefs Total	0.01	(0.01)
Haploops Reef	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Deep Reef	0.0	(0.0)
Porpoise Northsea	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V301_N

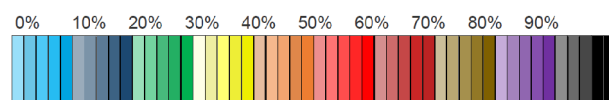
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	73%
S3 Kattegatt	84%
S1 Nuläge	105%

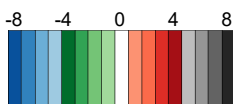
Områden och huvudanvändning



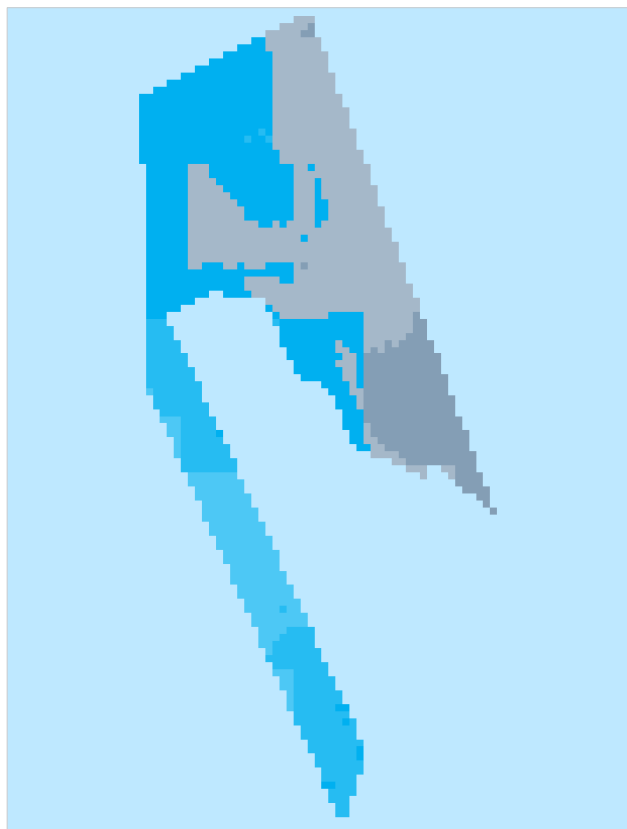
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



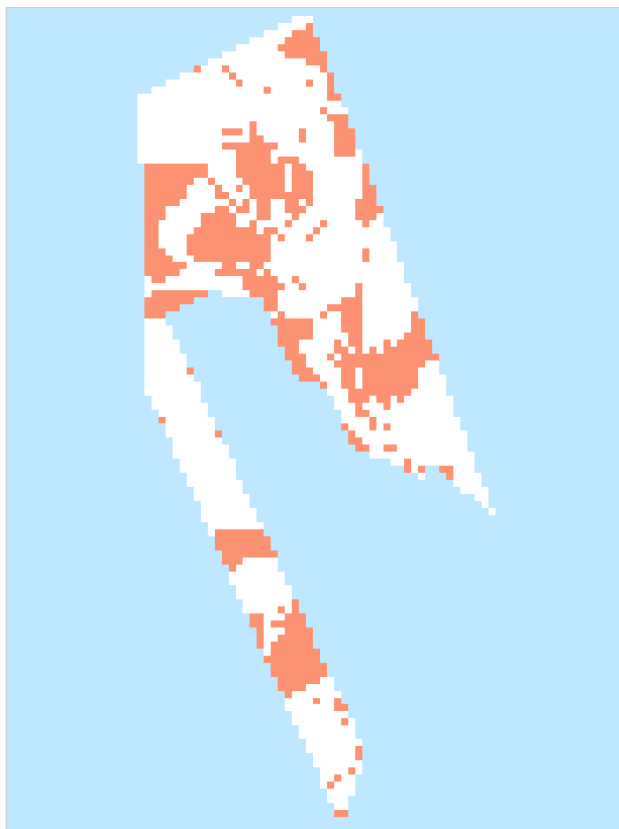
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.61	(2.74)
Anoxia Background	5.72	(5.99)
Nitrogen Background	24.72	(25.88)
Total	33.05	(34.6)
General pollution		
Tox Metal Background	3.25	(3.4)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	8.15	(8.54)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	11.4	(11.94)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	2.2	(1.84)
Noise 125Hz Shipping	17.73	(12.38)
Total	19.94	(14.22)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	20.84	(22.96)
Catch Gillnet	0.04	(0.05)
Turbidity Bottom trawl	6.32	(6.96)
Catch Bottom trawl	8.39	(9.25)
Catch Pelagic trawl	0.02	(0.02)
Total	35.61	(39.24)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V301_N

Cumulative Effect

	S3	(S1)
Total	37180665.0	(35515650.7)
Mean	17496.8	(16713.2)
Std. Dev.	4019.2	(4264.2)
Min	8478.0	(7379.2)
Max	26234.4	(25796.5)
Area km²	132.64	

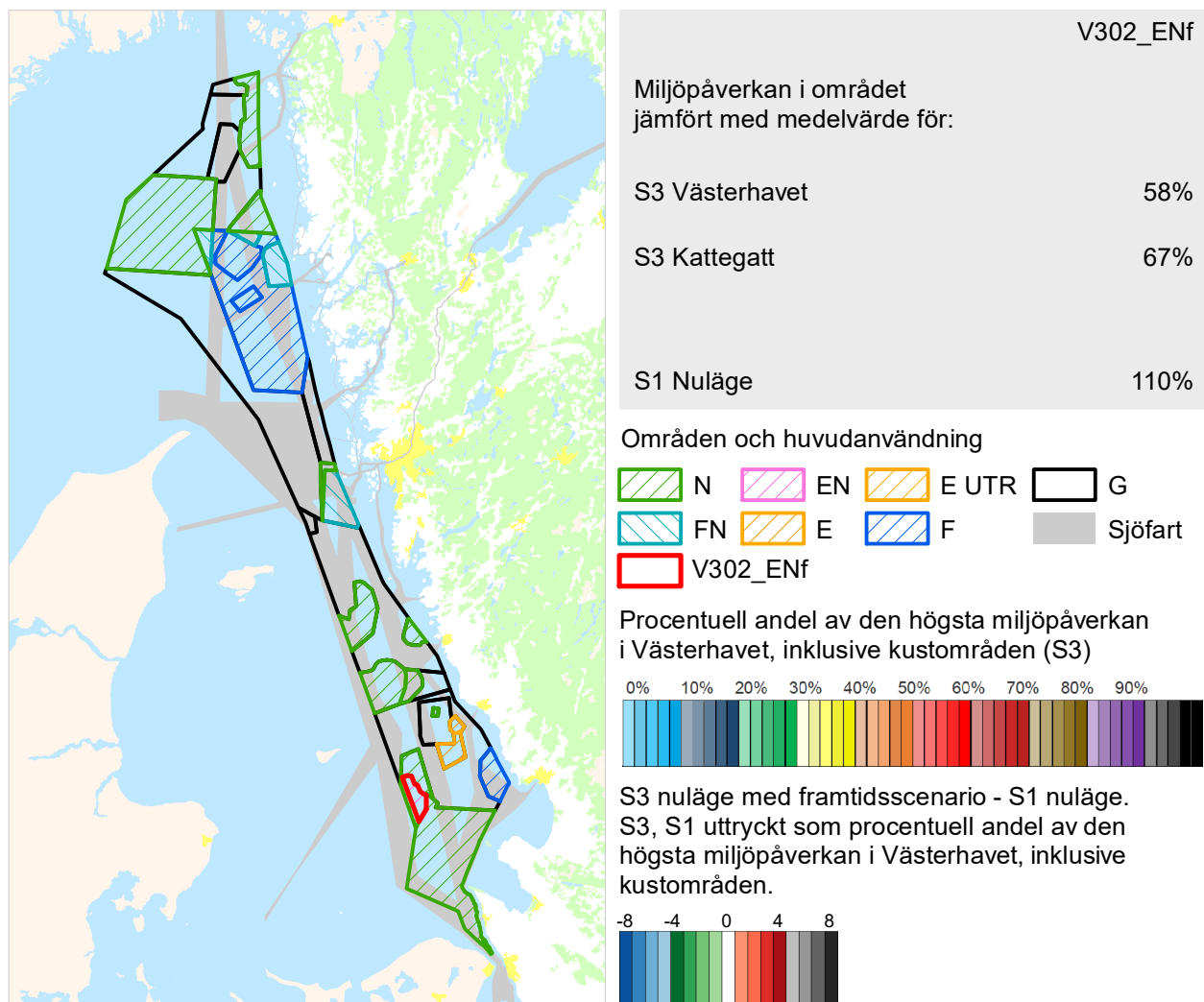
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	30.87	(31.87)
Spawning Fish	15.05	(15.33)
Cod	14.3	(13.71)
Porpoise Beltsea	10.22	(9.93)
Plankton Community	9.83	(10.27)
Transportbottom Aphotic	5.14	(5.21)
Transportbottom Photic	3.95	(3.74)
Sprat	2.89	(2.55)
Softbottom Photic	2.67	(2.64)
Harbour Seals	1.53	(1.49)
Seabird Winter Offshore	1.28	(1.09)
Hardbottom Photic	1.08	(1.06)
Herring	0.89	(0.81)
Hardbottom Deep	0.16	(0.16)
Mussel Reefs Total	0.08	(0.09)
Artificial Reefs Total	0.05	(0.04)
Eel Migration	0.01	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Deep Reef	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Porpoise Northsea	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

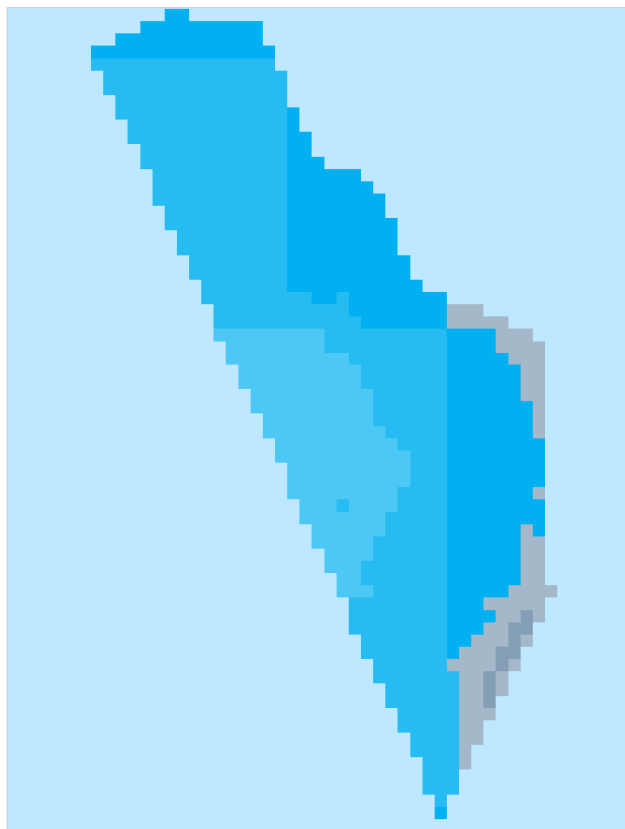
Calculated with SyM

Date: 2018-03-22

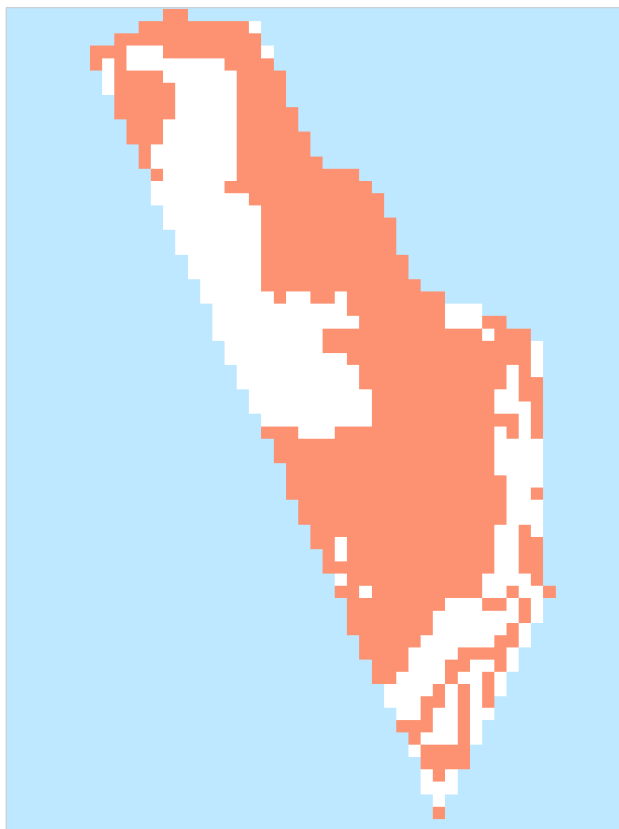
Medins Havs och Vattenkonsulter AB



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	3.74	(4.12)
Anoxia Background	7.65	(8.41)
Nitrogen Background	31.21	(34.33)
Total	42.6	(46.86)
General pollution		
Tox Metal Background	2.6	(2.86)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	3.53	(3.88)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	6.12	(6.74)
Shipping		
Turbidity Shipping	0.05	(0.04)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	3.48	(3.06)
Noise 125Hz Shipping	28.22	(20.69)
Total	31.75	(23.79)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	10.77	(12.47)
Catch Gillnet	0.26	(0.3)
Turbidity Bottom trawl	3.44	(3.98)
Catch Bottom trawl	5.06	(5.86)
Catch Pelagic trawl	0.0	(0.0)
Total	19.53	(22.61)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V302_ENf

Cumulative Effect

	S3	(S1)
Total	14672276.2	(13338478.0)
Mean	13973.6	(12703.3)
Std. Dev.	3310.3	(3398.5)
Min	9328.8	(8092.7)
Max	23511.7	(22673.8)
Area km²	65.83	

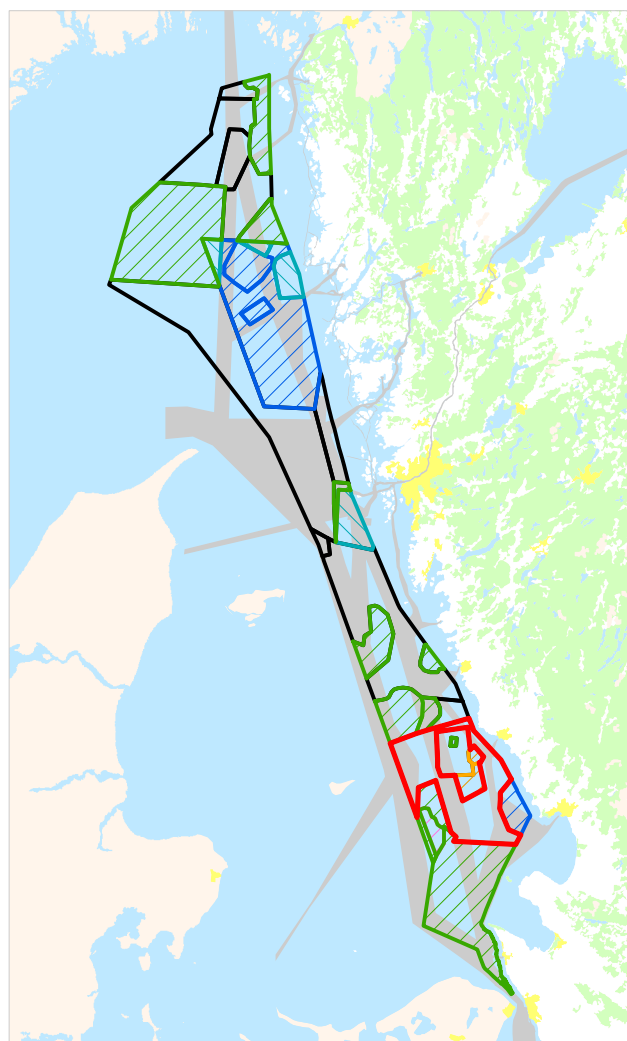
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Transportbottom Photic	20.22	(19.96)
Spawning Fish	18.39	(19.18)
Cod	15.2	(14.55)
Porpoise Beltsea	9.43	(9.13)
Plankton Community	8.67	(9.44)
Softbottom Photic	6.78	(7.04)
Hardbottom Photic	4.7	(4.82)
Softbottom Aphotic	3.89	(4.15)
Seabird Winter Offshore	3.36	(2.92)
Harbour Seals	3.34	(3.26)
Sprat	3.16	(2.7)
Transportbottom Aphotic	1.73	(1.81)
Herring	1.0	(0.91)
Hardbottom Deep	0.1	(0.11)
Artificial Reefs Total	0.02	(0.02)
Seabird Winter Coastal	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Eel Migration	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Angiosperms	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Deep Reef	0.0	(0.0)
Porpoise Northsea	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V303_G

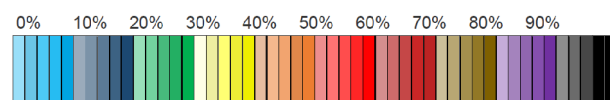
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	79%
S3 Kattegatt	91%
S1 Nuläge	103%

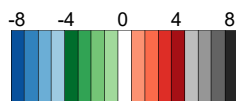
Områden och huvudanvändning



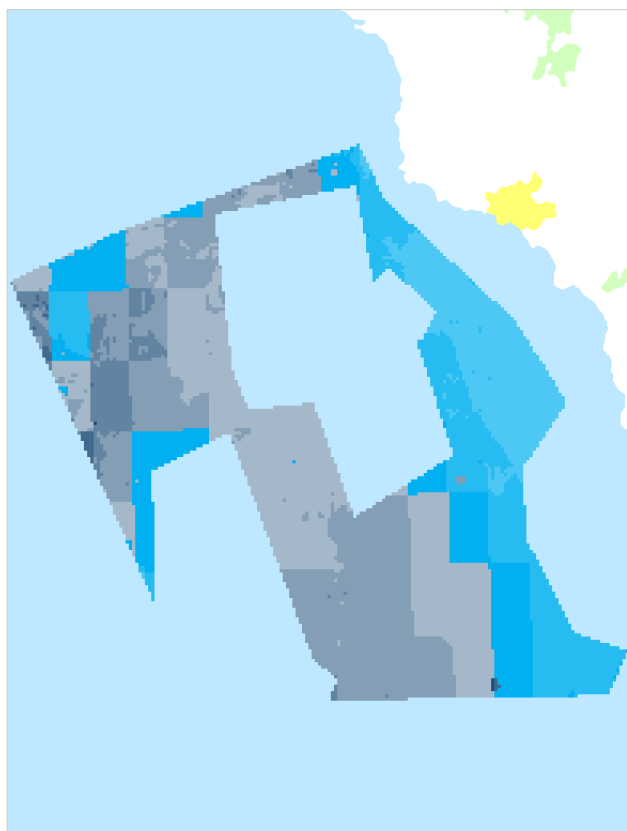
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



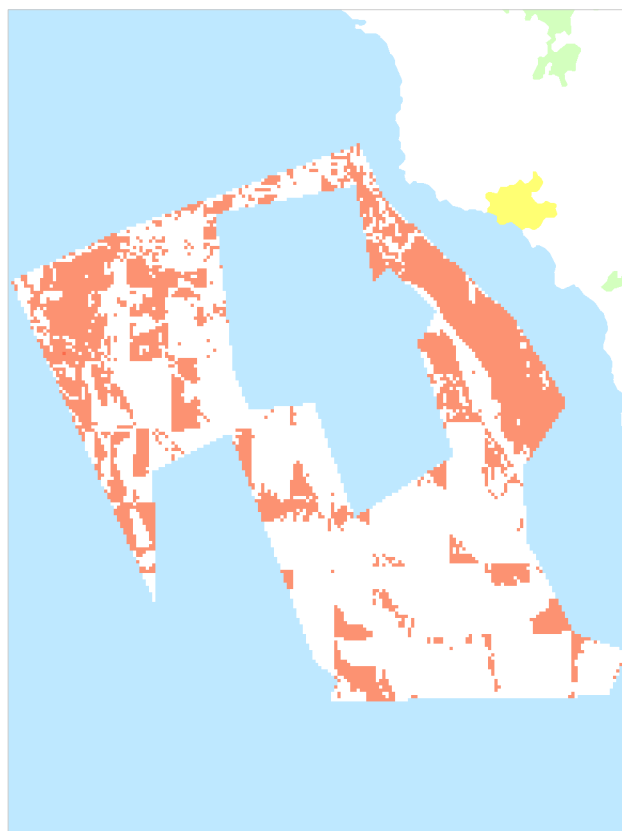
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.78	(2.87)
Anoxia Background	5.05	(5.22)
Nitrogen Background	24.92	(25.78)
Total	32.75	(33.87)
General pollution		
Tox Metal Background	5.59	(5.78)
Oilspill 2knots Wreck	0.42	(0.44)
Tox Synthetic Background	8.52	(8.82)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	14.53	(15.03)
Shipping		
Turbidity Shipping	0.01	(0.0)
Noise 2000Hz Shipping	0.01	(0.01)
Oilspill 2knots Shipping	1.65	(1.36)
Noise 125Hz Shipping	14.32	(9.88)
Total	15.99	(11.25)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.09	(0.09)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.09	(0.09)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.15	(0.15)
Total	0.15	(0.16)
Fisheries		
Abrasion Bottomtrawl	20.36	(22.08)
Catch Gillnet	0.05	(0.06)
Turbidity Bottom trawl	7.17	(7.79)
Catch Bottom trawl	8.89	(9.65)
Catch Pelagic trawl	0.02	(0.02)
Total	36.49	(39.6)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V303_G

Cumulative Effect

	S3	(S1)
Total	260357948.8	(251711395.8)
Mean	19018.1	(18386.5)
Std. Dev.	5539.3	(5763.6)
Min	8645.1	(7852.0)
Max	35332.9	(34389.2)
Area km²	855.5	

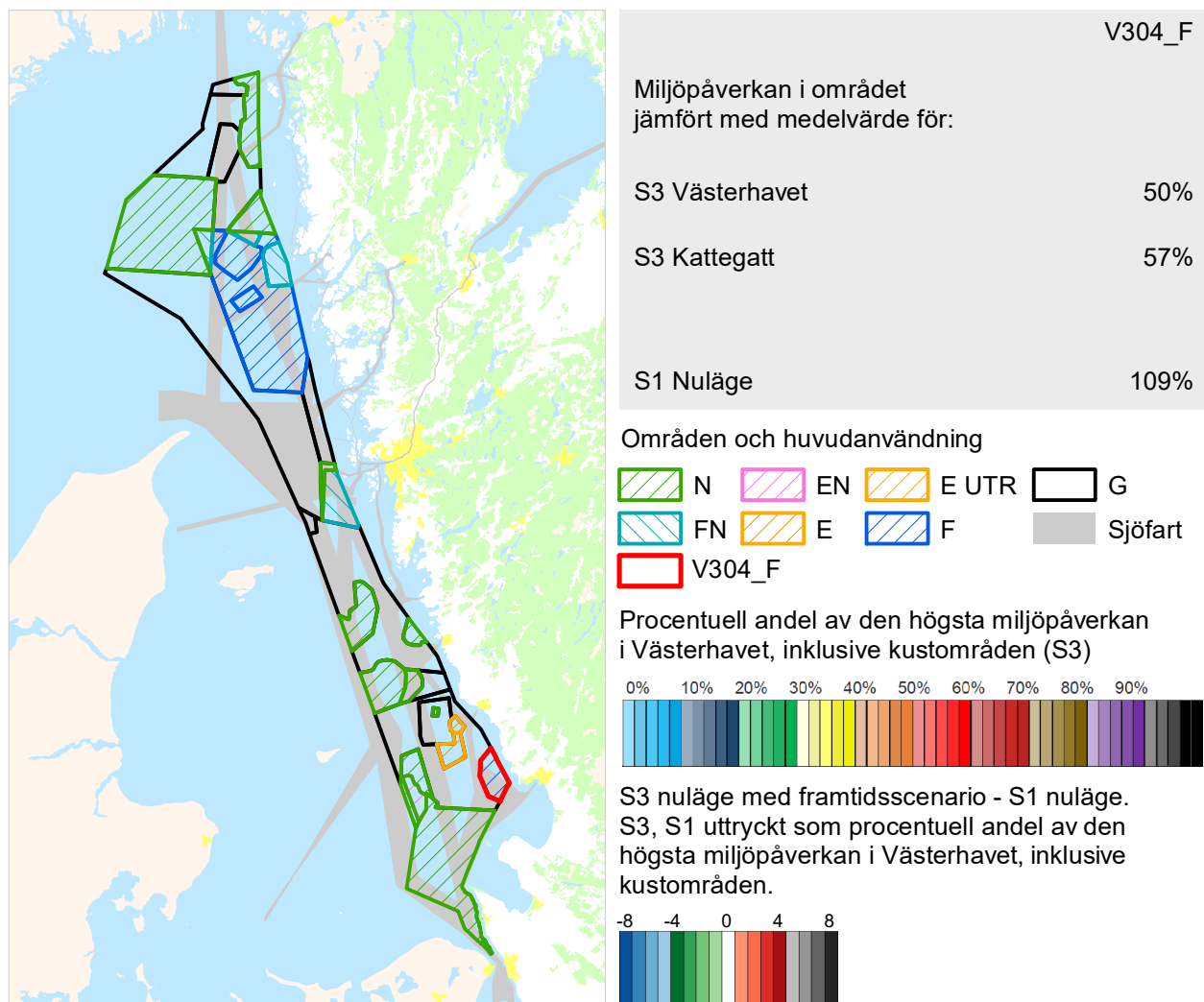
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	28.62	(29.48)
Spawning Fish	15.98	(16.29)
Cod	12.83	(12.44)
Plankton Community	9.61	(9.97)
Softbottom Photic	9.04	(9.09)
Porpoise Beltsea	8.18	(8.01)
Sprat	3.15	(2.83)
Harbour Seals	2.54	(2.52)
Seabird Winter Offshore	2.44	(2.19)
Transportbottom Aphotic	2.07	(2.1)
Transportbottom Photic	2.02	(1.91)
Eel Migration	1.13	(0.89)
Herring	1.03	(0.96)
Hardbottom Photic	0.5	(0.48)
Porpoise Northsea	0.37	(0.36)
Birds Coastal	0.21	(0.19)
Hardbottom Deep	0.15	(0.15)
Softbottom Deep	0.07	(0.08)
Artificial Reefs Total	0.05	(0.05)
Mussel Reefs Total	0.01	(0.01)
Seabird Winter Coastal	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)

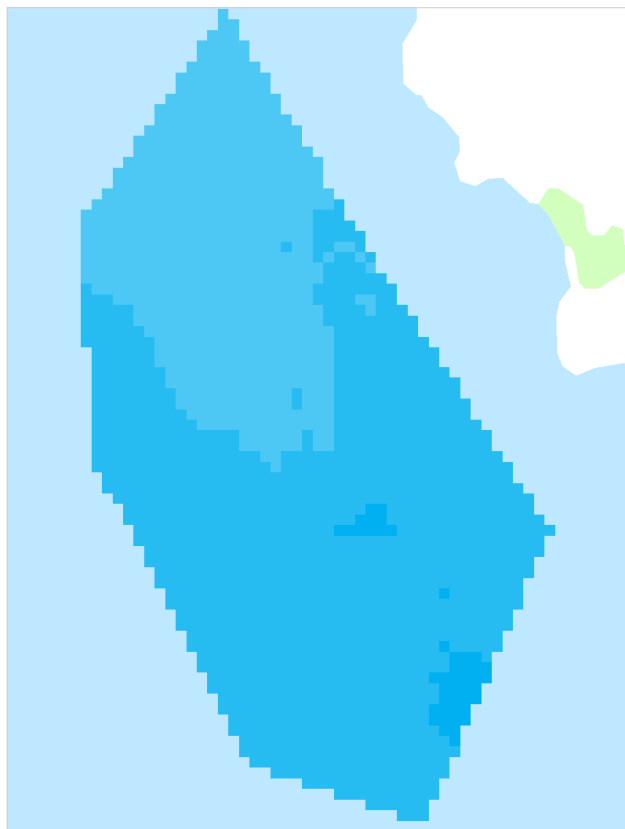
Calculated with SyM

Date: 2018-03-22

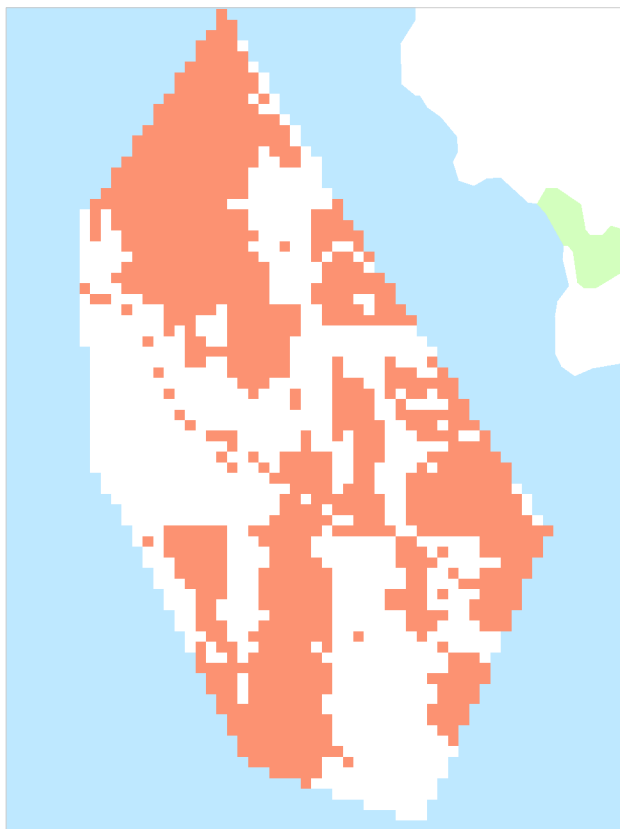
Medins Havs och Vattenkonsulter AB



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	4.76	(5.2)
Anoxia Background	10.42	(11.36)
Nitrogen Background	38.61	(42.11)
Total	53.79	(58.66)
General pollution		
Tox Metal Background	7.99	(8.71)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	7.85	(8.57)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	15.84	(17.27)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.97	(1.72)
Noise 125Hz Shipping	23.13	(16.82)
Total	25.1	(18.53)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.43	(0.47)
Total	0.43	(0.47)
Fisheries		
Abrasion Bottomtrawl	0.2	(0.12)
Catch Gillnet	1.74	(2.0)
Turbidity Bottom trawl	0.08	(0.05)
Catch Bottom trawl	0.08	(0.05)
Catch Pelagic trawl	0.0	(0.0)
Total	2.1	(2.21)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	2.75	(2.85)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	2.75	(2.85)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V304_F

Cumulative Effect

	S3	(S1)
Total	23553698.9	(21597567.9)
Mean	11956.2	(10963.2)
Std. Dev.	1710.7	(1766.8)
Min	8297.0	(7540.4)
Max	17355.3	(16340.3)
Area km²	123.27	

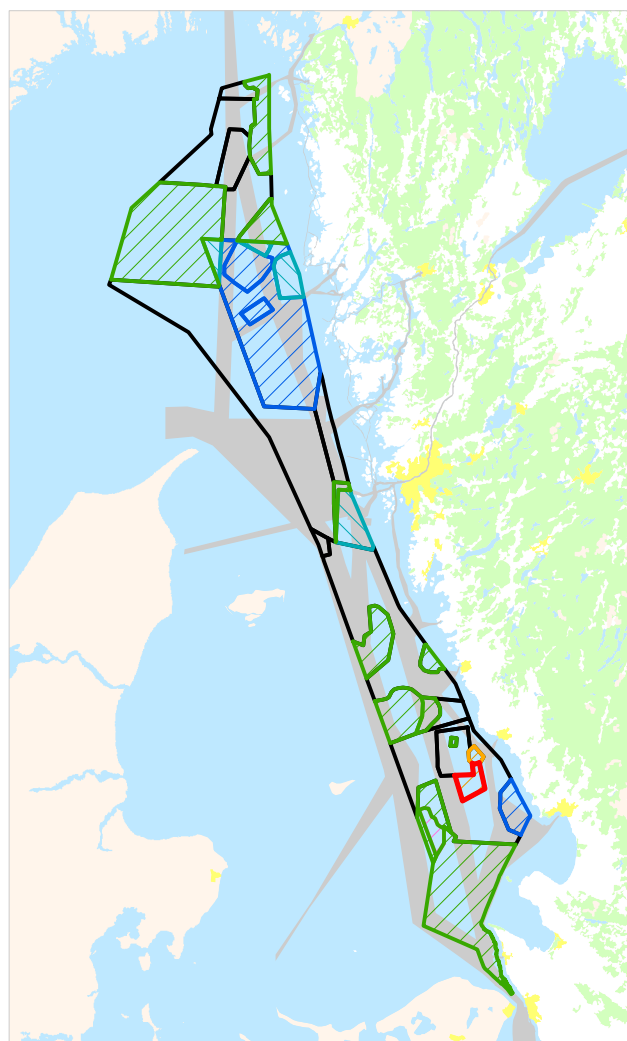
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Photic	25.03	(25.91)
Spawning Fish	14.9	(15.53)
Cod	13.34	(12.99)
Transportbottom Photic	10.84	(10.8)
Plankton Community	10.47	(11.31)
Seabird Winter Offshore	7.74	(7.28)
Eel Migration	4.91	(3.88)
Harbour Seals	4.55	(4.4)
Porpoise Beltsea	2.97	(2.95)
Sprat	2.59	(2.3)
Hardbottom Photic	1.67	(1.68)
Herring	0.93	(0.89)
Birds Coastal	0.05	(0.05)
Artificial Reefs Total	0.01	(0.01)
Mussel Reefs Total	0.01	(0.01)
Deep Reef	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Grey Seals	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Angiosperms	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Softbottom Aphotic	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Porpoise Northsea	0.0	(0.0)
Transportbottom Aphotic	0.0	(0.0)
Hardbottom Deep	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V305_Efn

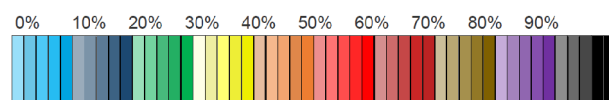
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	79%
S3 Kattegatt	91%
S1 Nuläge	101%

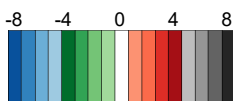
Områden och huvudanvändning



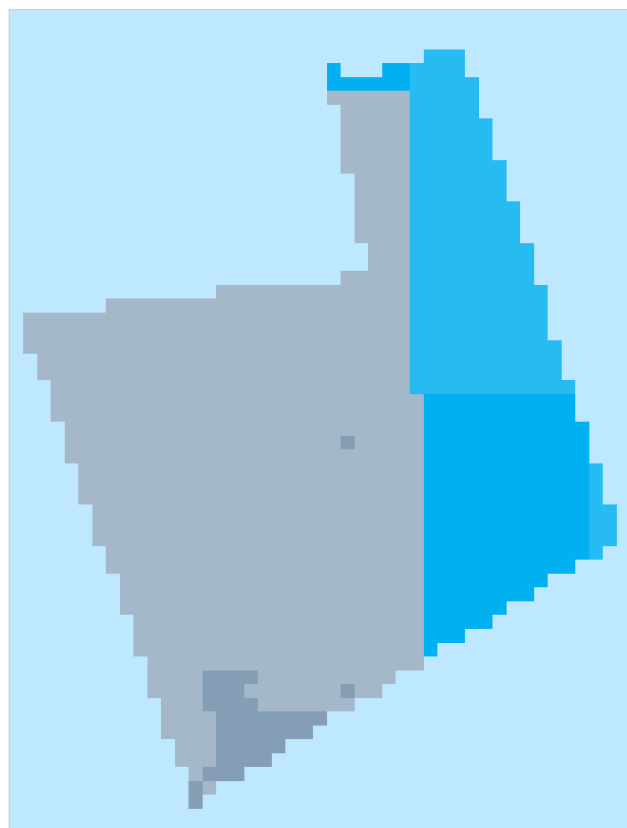
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



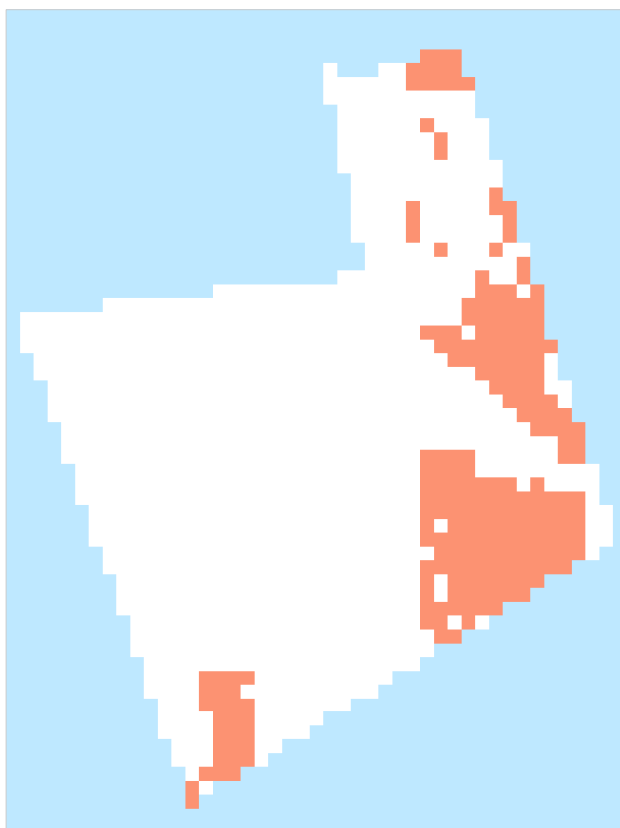
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.76	(2.8)
Anoxia Background	3.73	(3.78)
Nitrogen Background	26.33	(26.7)
Total	32.82	(33.29)
General pollution		
Tox Metal Background	6.54	(6.64)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	9.19	(9.32)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	15.73	(15.95)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.2	(0.98)
Noise 125Hz Shipping	9.46	(6.4)
Total	10.66	(7.37)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.16	(0.16)
Total	0.16	(0.16)
Fisheries		
Abrasion Bottomtrawl	23.14	(24.62)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	7.84	(8.34)
Catch Bottom trawl	9.59	(10.21)
Catch Pelagic trawl	0.05	(0.05)
Total	40.62	(43.22)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V305_Efn

Cumulative Effect

	S3	(S1)
Total	23368739.0	(23043926.5)
Mean	18983.5	(18719.7)
Std. Dev.	3418.1	(3598.1)
Min	11150.1	(10369.5)
Max	24992.9	(24659.7)
Area km²	76.87	

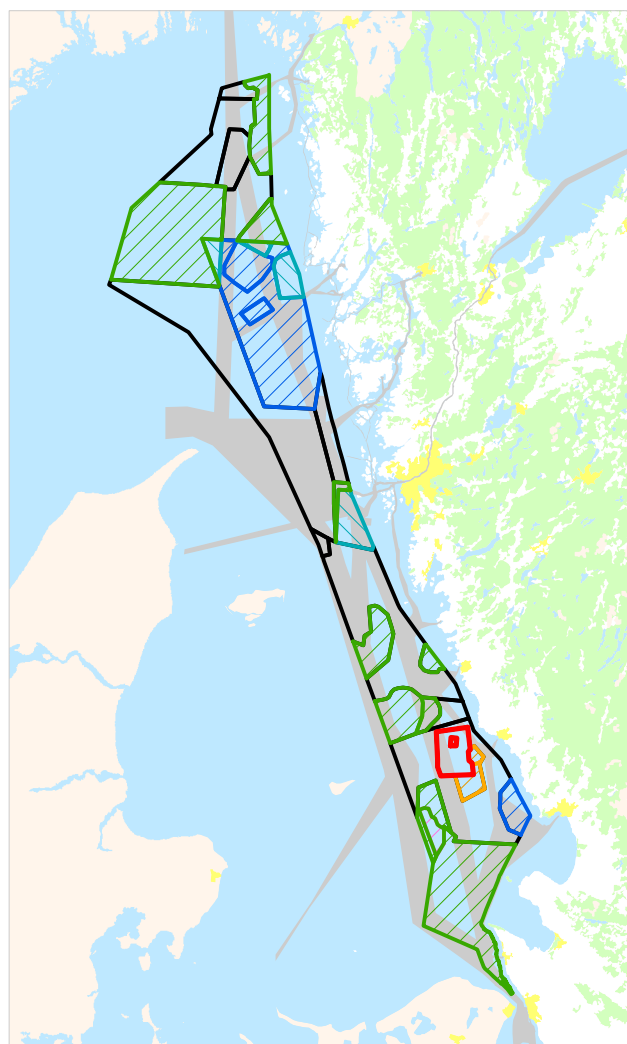
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	29.18	(29.8)
Spawning Fish	17.88	(18.11)
Softbottom Photic	12.76	(12.81)
Cod	11.71	(11.46)
Plankton Community	9.79	(9.98)
Porpoise Beltsea	8.73	(8.61)
Seabird Winter Offshore	2.53	(2.26)
Sprat	2.12	(1.97)
Eel Migration	1.52	(1.26)
Harbour Seals	1.41	(1.4)
Transportbottom Aphotic	1.1	(1.12)
Herring	0.69	(0.65)
Transportbottom Photic	0.42	(0.41)
Hardbottom Photic	0.13	(0.13)
Artificial Reefs Total	0.02	(0.02)
Hardbottom Deep	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Deep Reef	0.0	(0.0)
Porpoise Northsea	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V306_Gn

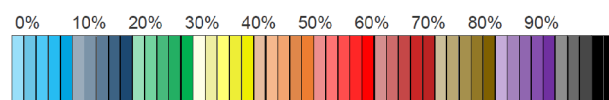
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	85%
S3 Kattegatt	98%
S1 Nuläge	101%

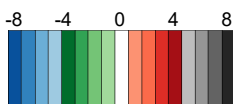
Områden och huvudanvändning



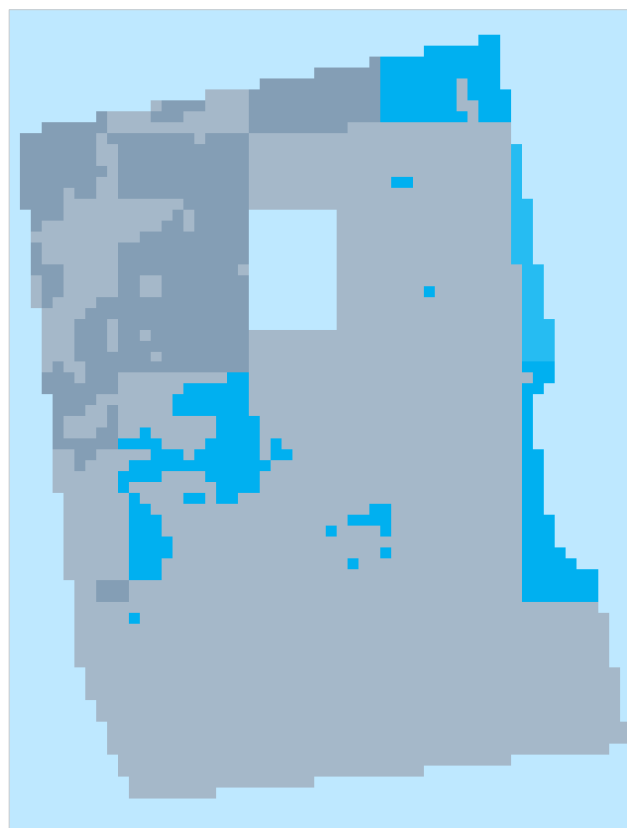
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



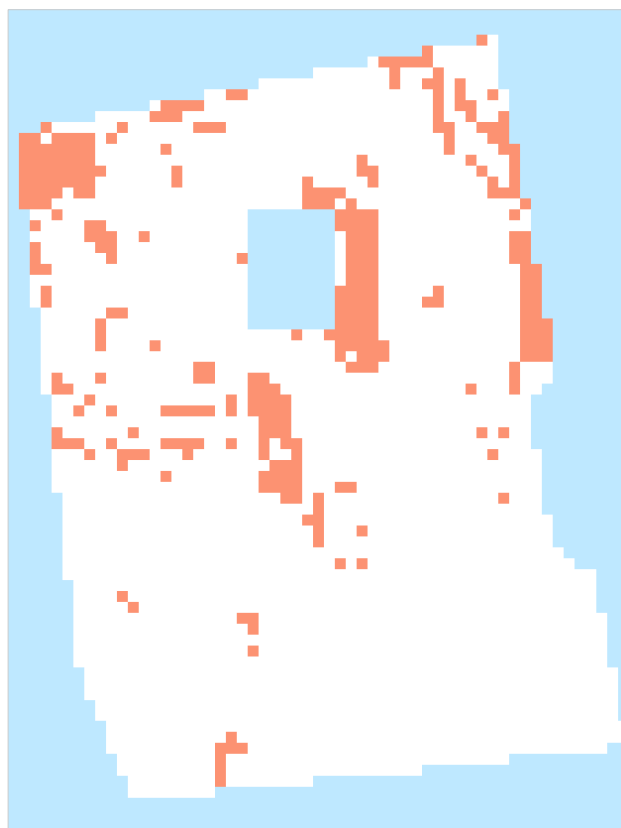
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.52	(2.56)
Anoxia Background	3.17	(3.22)
Nitrogen Background	23.48	(23.82)
Total	29.17	(29.59)
General pollution		
Tox Metal Background	3.8	(3.85)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	8.52	(8.64)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	12.31	(12.49)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.31	(1.07)
Noise 125Hz Shipping	10.5	(7.1)
Total	11.81	(8.17)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.08	(0.08)
Total	0.08	(0.08)
Fisheries		
Abrasion Bottomtrawl	26.06	(27.75)
Catch Gillnet	0.03	(0.03)
Turbidity Bottom trawl	9.2	(9.8)
Catch Bottom trawl	11.33	(12.07)
Catch Pelagic trawl	0.01	(0.01)
Total	46.62	(49.67)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Musselselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V306_Gn

Cumulative Effect

	S3	(S1)
Total	58440779.5	(57603634.5)
Mean	20462.5	(20169.3)
Std. Dev.	2099.8	(2183.4)
Min	11068.6	(10326.4)
Max	25614.1	(25376.3)
Area km²	178.24	

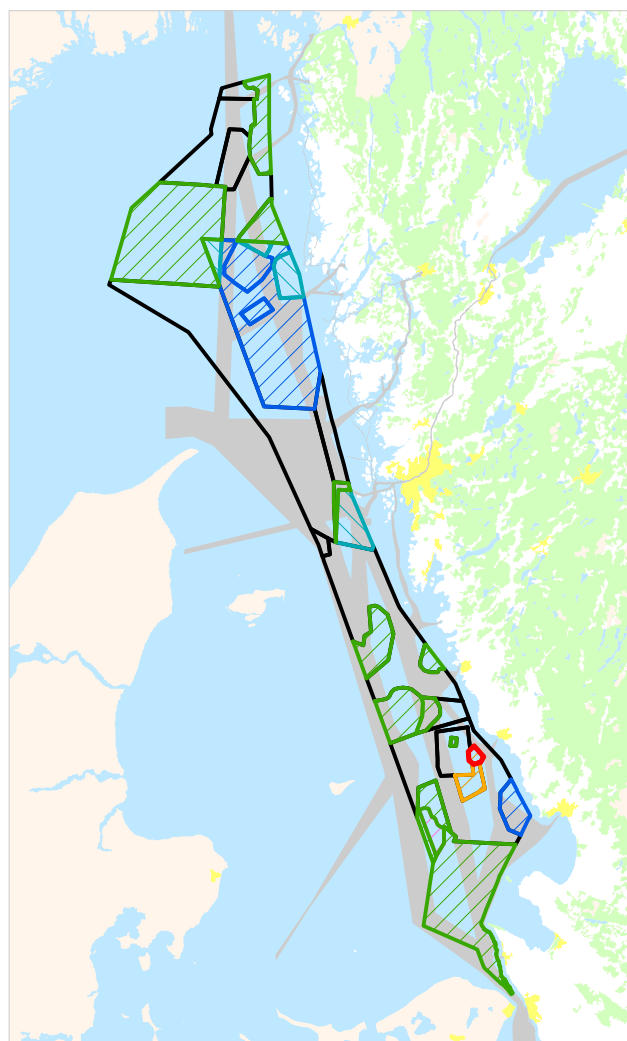
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	34.55	(35.19)
Spawning Fish	16.22	(16.44)
Cod	12.07	(11.78)
Porpoise Beltsea	9.72	(9.54)
Plankton Community	9.57	(9.77)
Softbottom Photoc	6.18	(6.24)
Transportbottom Aphotic	2.42	(2.46)
Sprat	2.23	(2.05)
Eel Migration	1.89	(1.59)
Harbour Seals	1.62	(1.61)
Seabird Winter Offshore	1.16	(1.02)
Porpoise Northsea	0.78	(0.76)
Herring	0.7	(0.66)
Hardbottom Deep	0.3	(0.31)
Transportbottom Photoc	0.27	(0.27)
Birds Coastal	0.2	(0.17)
Hardbottom Photoc	0.11	(0.11)
Mussel Reefs Total	0.01	(0.01)
Artificial Reefs Total	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Grey Seals	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V307_Ef

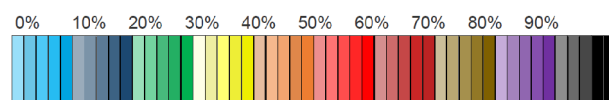
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	49%
S3 Kattegatt	57%
S1 Nuläge	90%

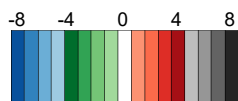
Områden och huvudanvändning



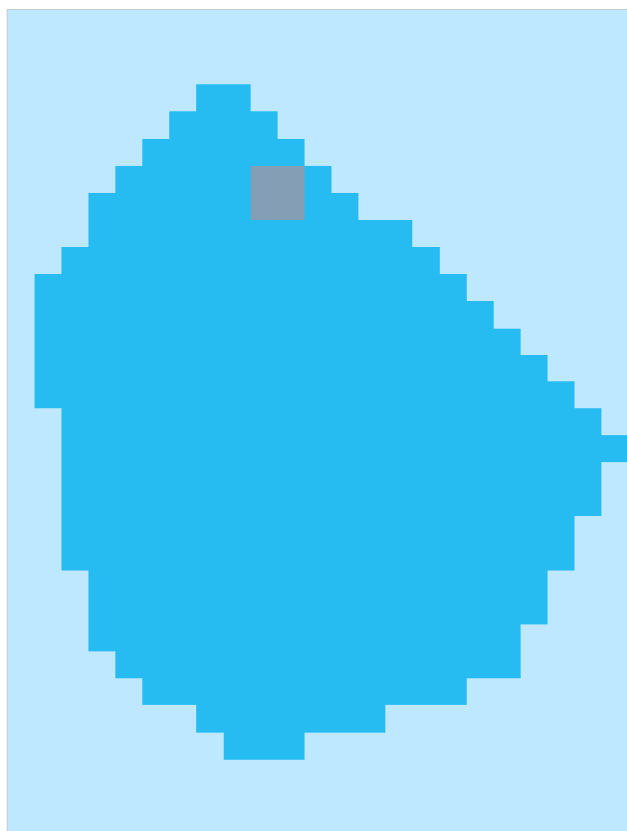
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



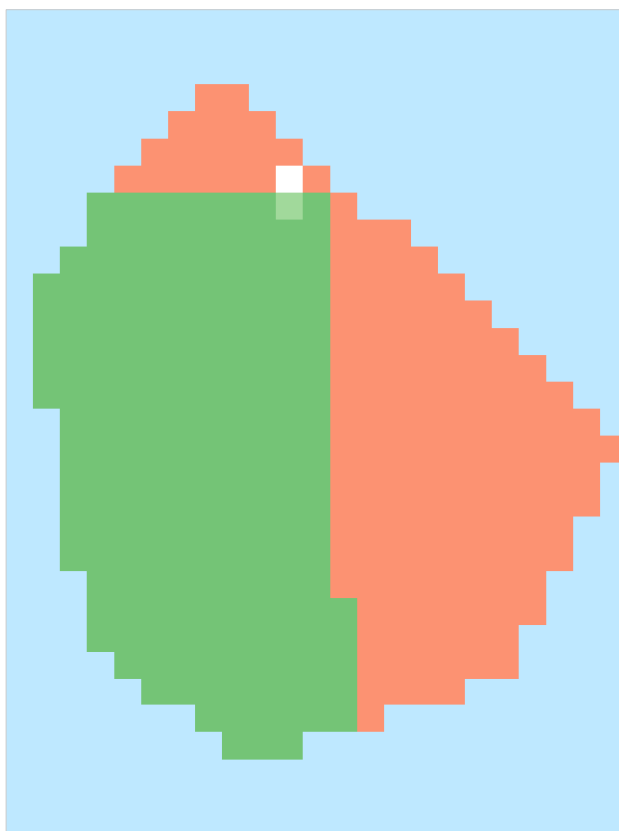
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	4.53	(4.09)
Anoxia Background	4.47	(4.04)
Nitrogen Background	41.66	(37.61)
Total	50.66	(45.73)
General pollution		
Tox Metal Background	6.85	(6.18)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	13.42	(12.12)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	20.27	(18.3)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	2.62	(1.89)
Noise 125Hz Shipping	19.4	(11.67)
Total	22.02	(13.57)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	1.33	(1.14)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	1.33	(1.14)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.26)
Total	0.0	(0.26)
Fisheries		
Abrasion Bottomtrawl	0.0	(12.82)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	0.0	(3.74)
Catch Bottom trawl	0.0	(4.44)
Catch Pelagic trawl	0.0	(0.0)
Total	0.0	(21.0)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Musselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	1.97	(0.0)
Noise 125Hz Windpower	3.53	(0.0)
EMF	0.22	(0.0)
Total	5.72	(0.0)

V307_Ef

Cumulative Effect

	S3	(S1)
Total	4160254.0	(4608798.1)
Mean	11818.9	(13093.2)
Std. Dev.	1491.4	(2775.0)
Min	10853.5	(9208.9)
Max	25735.8	(28451.8)
Area km²	22.01	

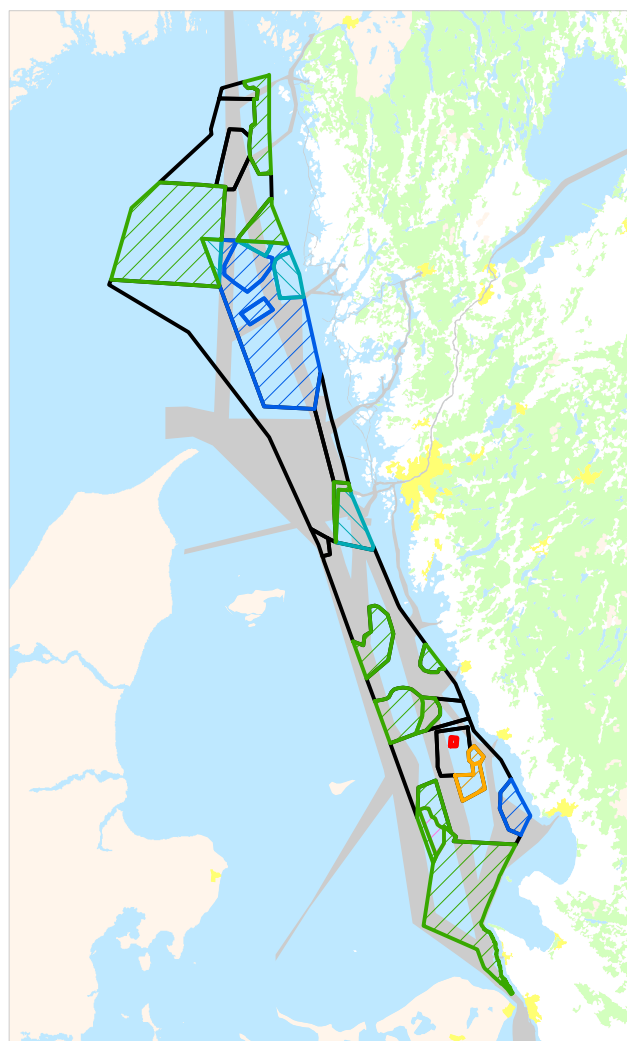
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Photic	33.63	(38.94)
Spawning Fish	16.88	(17.67)
Cod	11.44	(11.16)
Plankton Community	10.53	(10.43)
Porpoise Beltsea	9.09	(8.73)
Seabird Winter Offshore	6.59	(3.56)
Eel Migration	4.05	(2.64)
Transportbottom Photic	2.89	(2.49)
Sprat	2.32	(1.88)
Harbour Seals	0.99	(1.05)
Herring	0.86	(0.73)
Hardbottom Photic	0.69	(0.67)
Artificial Reefs Total	0.05	(0.04)
Haploops Reef	0.0	(0.0)
Angiosperms	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Aphotic	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Porpoise Northsea	0.0	(0.0)
Transportbottom Aphotic	0.0	(0.0)
Hardbottom Deep	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Deep Reef	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V308_N

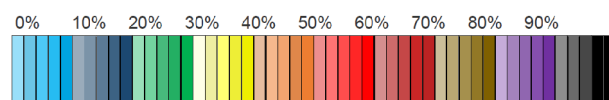
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	79%
S3 Kattegatt	92%
S1 Nuläge	102%

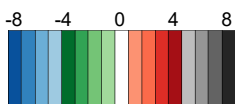
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

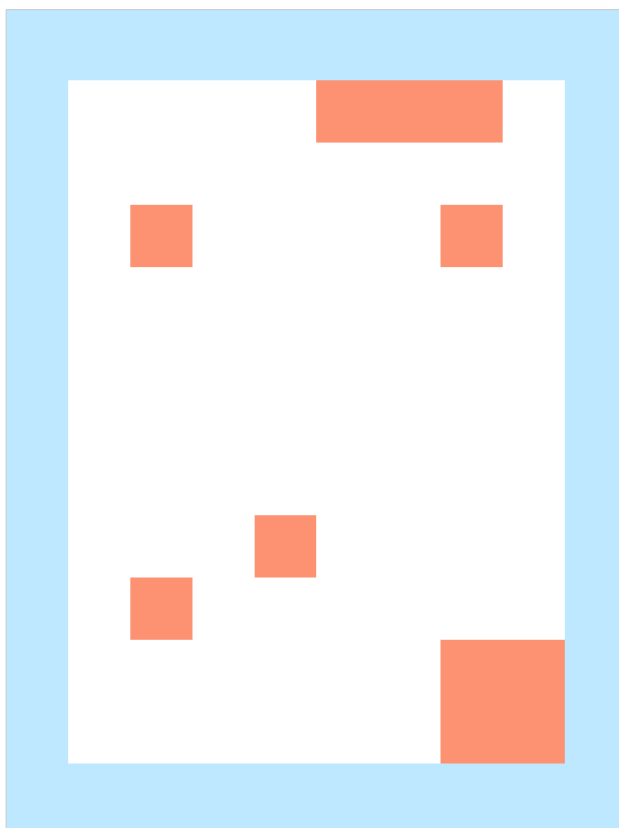
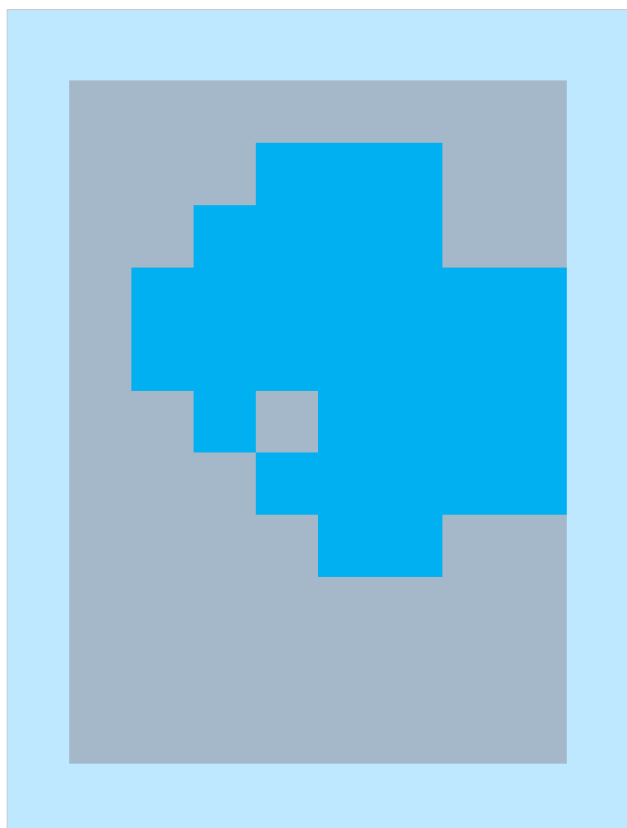


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.59	(2.63)
Anoxia Background	3.28	(3.33)
Nitrogen Background	24.13	(24.52)
Total	30.01	(30.48)
General pollution		
Tox Metal Background	1.99	(2.02)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	7.05	(7.16)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	9.04	(9.18)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.42	(1.15)
Noise 125Hz Shipping	11.41	(7.73)
Total	12.83	(8.88)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.08	(0.08)
Total	0.08	(0.08)
Fisheries		
Abrasion Bottomtrawl	25.91	(27.71)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	9.74	(10.41)
Catch Bottom trawl	12.4	(13.26)
Catch Pelagic trawl	0.0	(0.0)
Total	48.05	(51.38)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V308_N

Cumulative Effect

	S3	(S1)
Total	1681915.4	(1655704.1)
Mean	19112.7	(18814.8)
Std. Dev.	1462.2	(1517.0)
Min	15705.0	(15311.5)
Max	21254.2	(20974.6)
Area km²	5.66	

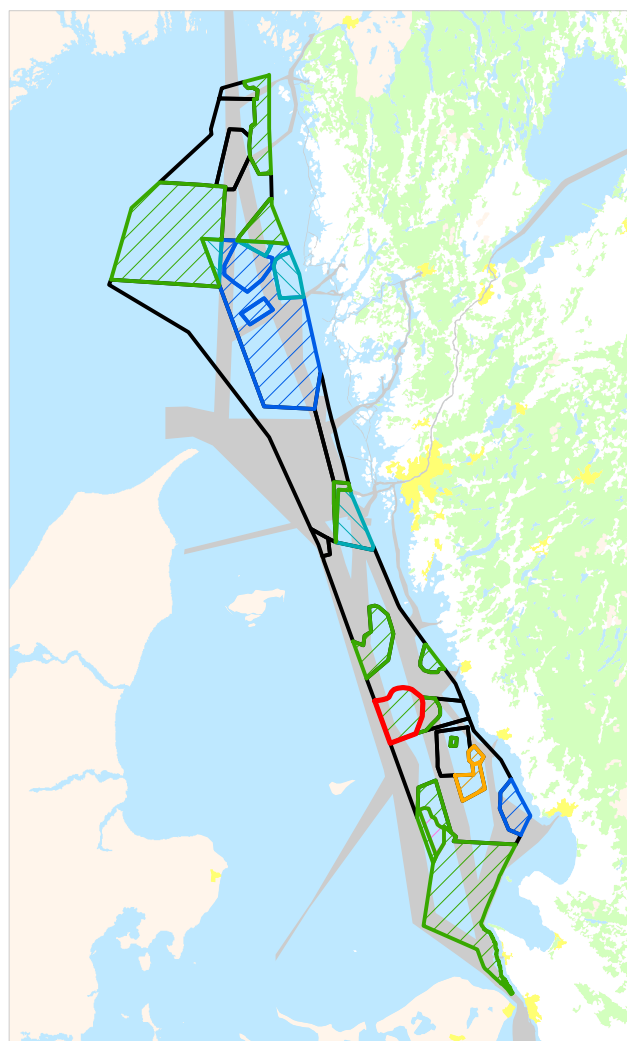
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	20.93	(21.37)
Spawning Fish	17.53	(17.83)
Cod	12.55	(12.29)
Plankton Community	9.71	(9.95)
Porpoise Beltsea	9.64	(9.49)
Transportbottom Photic	5.83	(5.75)
Transportbottom Aphotic	4.92	(5.02)
Softbottom Photic	4.05	(4.13)
Hardbottom Photic	3.76	(3.83)
Harbour Seals	2.53	(2.52)
Eel Migration	2.47	(2.09)
Sprat	2.24	(2.06)
Seabird Winter Offshore	1.16	(1.01)
Porpoise Northsea	1.03	(1.01)
Hardbottom Deep	0.73	(0.75)
Herring	0.71	(0.67)
Mussel Reefs Total	0.21	(0.22)
Hardbottom Aphotic	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V309_N

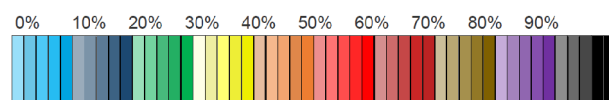
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	81%
S3 Kattegatt	94%
S1 Nuläge	107%

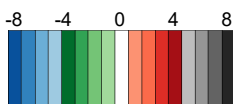
Områden och huvudanvändning



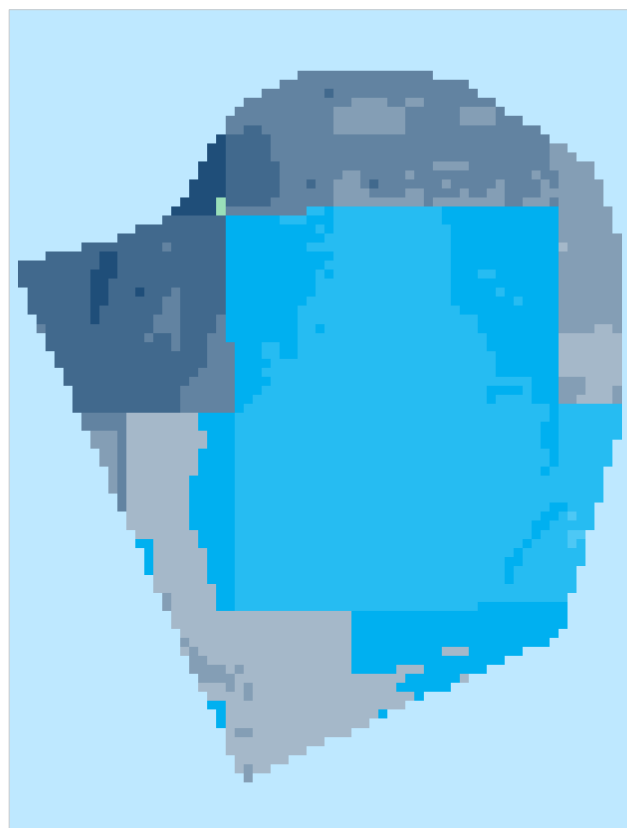
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.97	(3.18)
Anoxia Background	8.57	(9.18)
Nitrogen Background	23.45	(25.12)
Total	34.98	(37.49)
General pollution		
Tox Metal Background	0.34	(0.36)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	6.64	(7.12)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	6.98	(7.48)
Shipping		
Turbidity Shipping	0.04	(0.03)
Noise 2000Hz Shipping	0.05	(0.03)
Oilspill 2knots Shipping	2.85	(2.45)
Noise 125Hz Shipping	23.27	(16.62)
Total	26.21	(19.13)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	16.58	(18.7)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	6.33	(7.14)
Catch Bottom trawl	8.84	(9.97)
Catch Pelagic trawl	0.08	(0.09)
Total	31.83	(35.9)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V309_N

Cumulative Effect

	S3	(S1)
Total	69932517.3	(65259928.5)
Mean	19578.0	(18269.9)
Std. Dev.	7192.2	(7518.1)
Min	10753.9	(9502.2)
Max	38812.8	(38288.4)
Area km²	223.46	

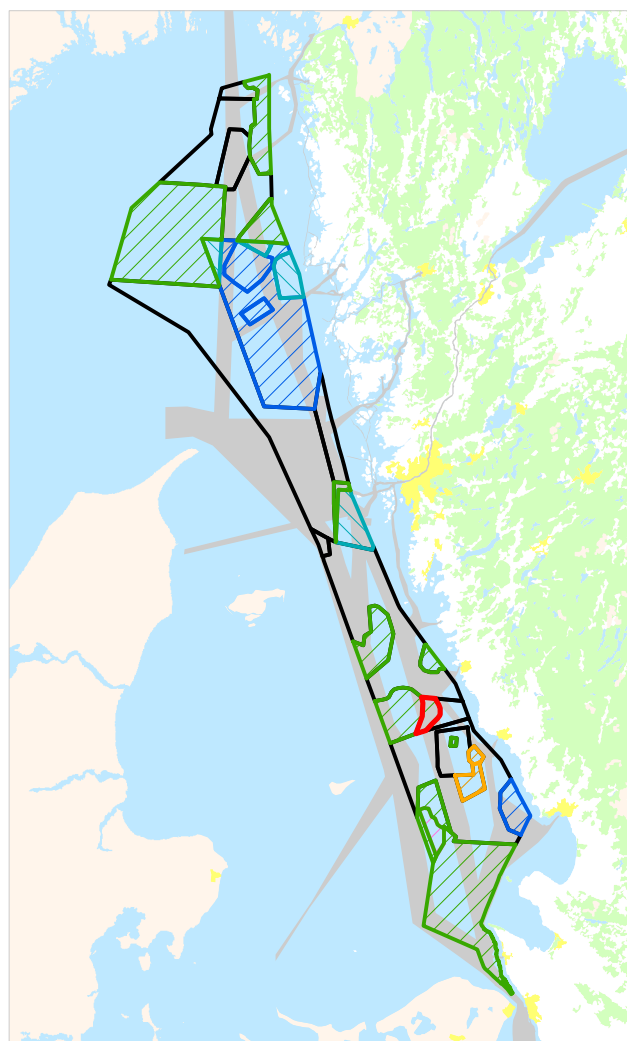
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	17.91	(18.92)
Cod	13.35	(12.92)
Spawning Fish	13.17	(13.63)
Porpoise Northsea	8.81	(8.66)
Plankton Community	7.59	(8.11)
Transportbottom Photic	6.95	(6.69)
Porpoise Beltsea	6.95	(6.73)
Sprat	6.06	(5.33)
Transportbottom Aphotic	4.98	(5.19)
Softbottom Photic	4.11	(4.14)
Herring	3.74	(3.53)
Harbour Seals	3.41	(3.38)
Hardbottom Photic	1.46	(1.45)
Seabird Winter Offshore	0.66	(0.56)
Eel Migration	0.51	(0.42)
Hardbottom Deep	0.27	(0.28)
Artificial Reefs Total	0.04	(0.04)
Softbottom Deep	0.01	(0.01)
Mussel Reefs Total	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V310_N

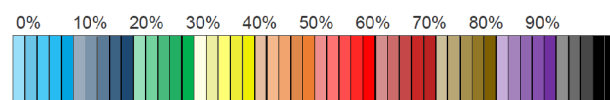
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	84%
S3 Kattegatt	97%
S1 Nuläge	106%

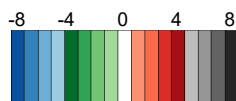
Områden och huvudanvändning



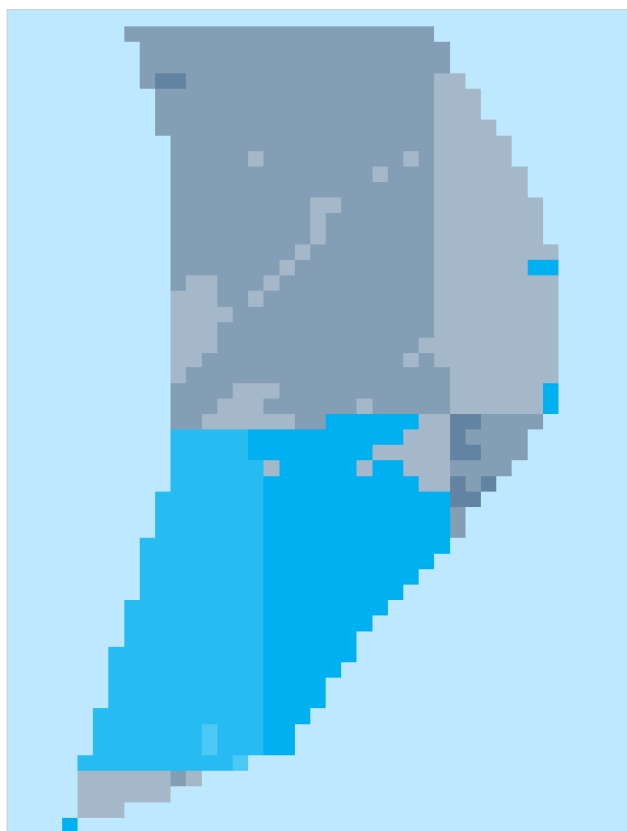
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



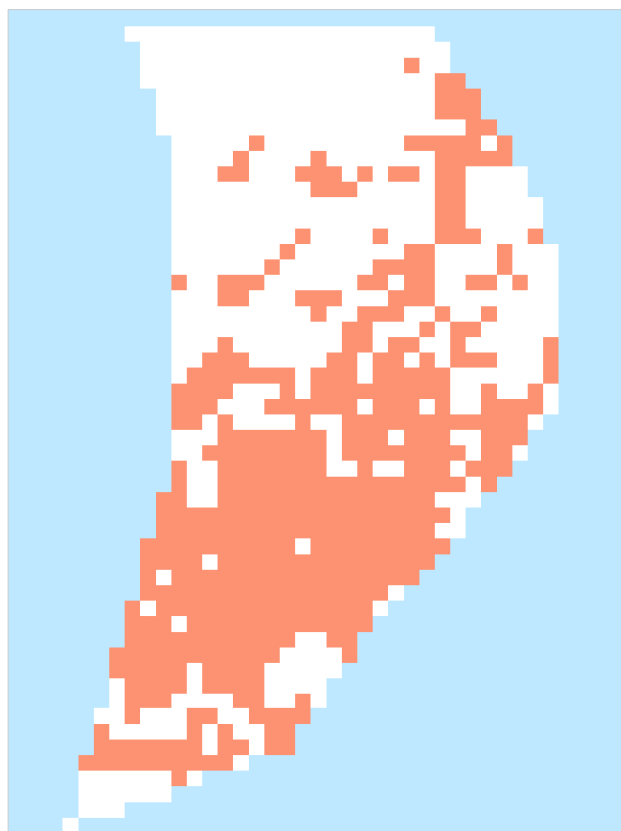
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.96	(3.13)
Anoxia Background	3.9	(4.13)
Nitrogen Background	23.41	(24.78)
Total	30.27	(32.04)
General pollution		
Tox Metal Background	0.35	(0.37)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	8.12	(8.6)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	8.47	(8.96)
Shipping		
Turbidity Shipping	0.06	(0.04)
Noise 2000Hz Shipping	0.04	(0.03)
Oilspill 2knots Shipping	2.6	(2.2)
Noise 125Hz Shipping	20.85	(14.71)
Total	23.54	(16.98)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.02	(0.02)
Total	0.02	(0.02)
Fisheries		
Abrasion Bottomtrawl	21.13	(23.54)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	7.16	(7.98)
Catch Bottom trawl	9.41	(10.48)
Catch Pelagic trawl	0.0	(0.0)
Total	37.7	(42.0)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Musselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V310_N

Cumulative Effect

	S3	(S1)
Total	20258320.8	(19140685.6)
Mean	20137.5	(19026.5)
Std. Dev.	4530.6	(4824.5)
Min	10399.0	(9130.6)
Max	28881.1	(27981.6)
Area km²	62.58	

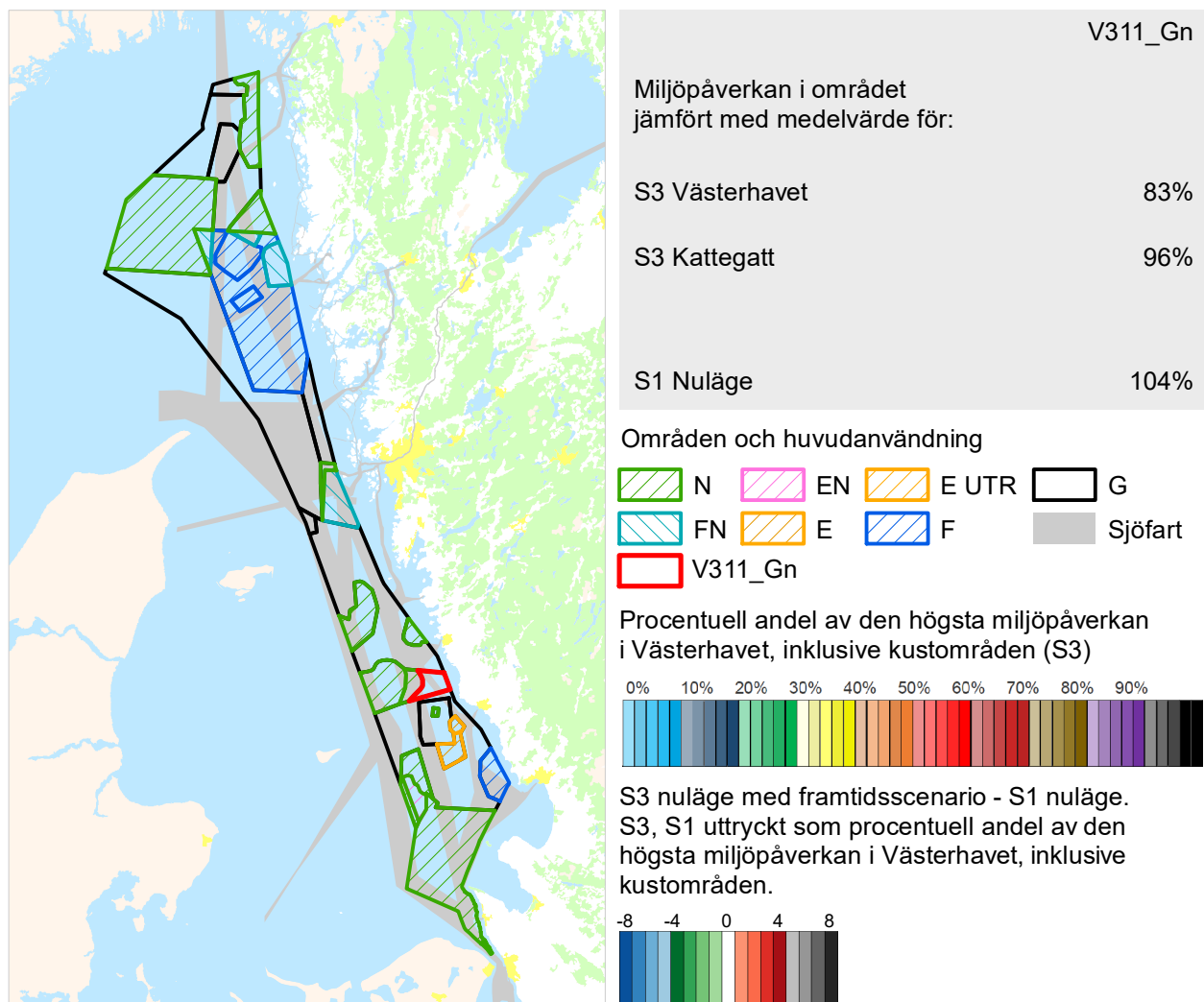
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	24.06	(25.02)
Spawning Fish	13.62	(13.98)
Cod	11.38	(10.9)
Porpoise Northsea	10.46	(10.25)
Plankton Community	8.64	(9.12)
Porpoise Beltsea	6.76	(6.56)
Transportbottom Aphotic	5.58	(5.66)
Harbour Seals	5.21	(5.17)
Transportbottom Photic	2.83	(2.71)
Sprat	2.71	(2.4)
Softbottom Photic	2.64	(2.67)
Eel Migration	2.55	(2.1)
Hardbottom Photic	1.34	(1.36)
Herring	0.98	(0.91)
Hardbottom Deep	0.75	(0.76)
Seabird Winter Offshore	0.48	(0.41)
Mussel Reefs Total	0.03	(0.04)
Hardbottom Aphotic	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

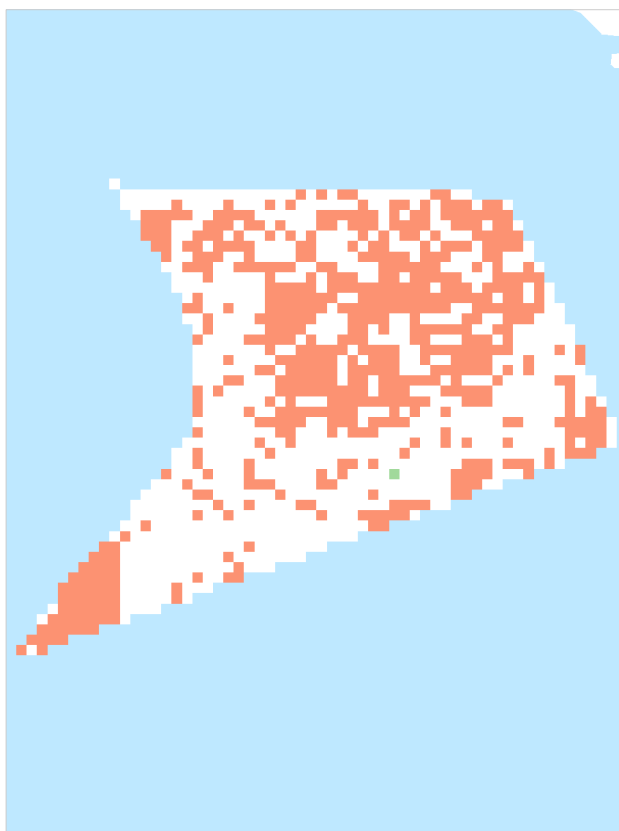
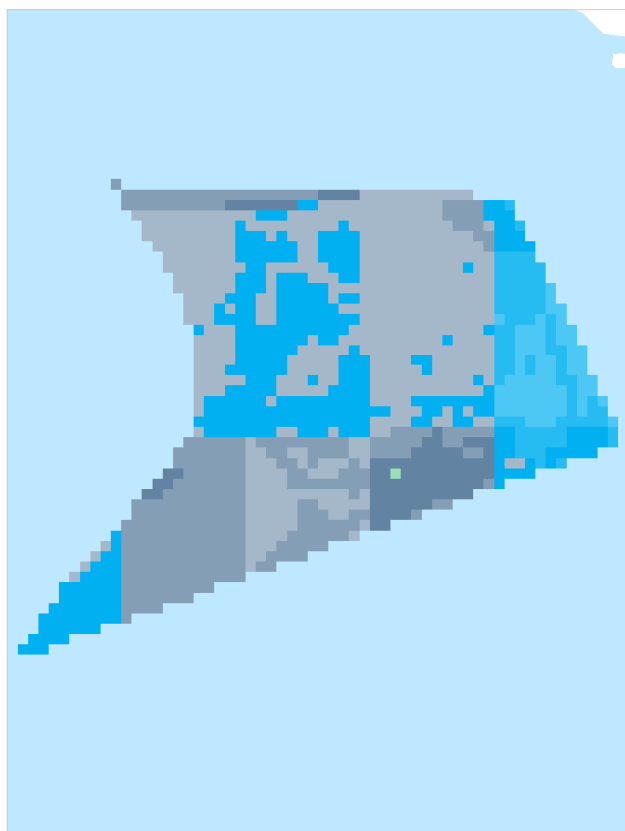
Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	3.15	(3.29)
Anoxia Background	4.41	(4.6)
Nitrogen Background	23.92	(24.97)
Total	31.48	(32.86)
General pollution		
Tox Metal Background	0.04	(0.05)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	7.78	(8.12)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	7.82	(8.16)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.88	(1.57)
Noise 125Hz Shipping	17.48	(12.16)
Total	19.36	(13.74)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.14	(0.14)
Boating Noise	0.04	(0.04)
Birdhunt	0.06	(0.06)
Total	0.24	(0.24)
Fisheries		
Abrasion Bottomtrawl	22.5	(24.64)
Catch Gillnet	0.69	(0.76)
Turbidity Bottom trawl	8.04	(8.81)
Catch Bottom trawl	9.85	(10.79)
Catch Pelagic trawl	0.0	(0.0)
Total	41.09	(45.0)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Musselselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V311_Gn

Cumulative Effect

	S3	(S1)
Total	27489758.7	(26340314.7)
Mean	19963.5	(19128.8)
Std. Dev.	4294.4	(4504.7)
Min	9263.4	(8247.7)
Max	42124.5	(42395.0)
Area km²	86.01	

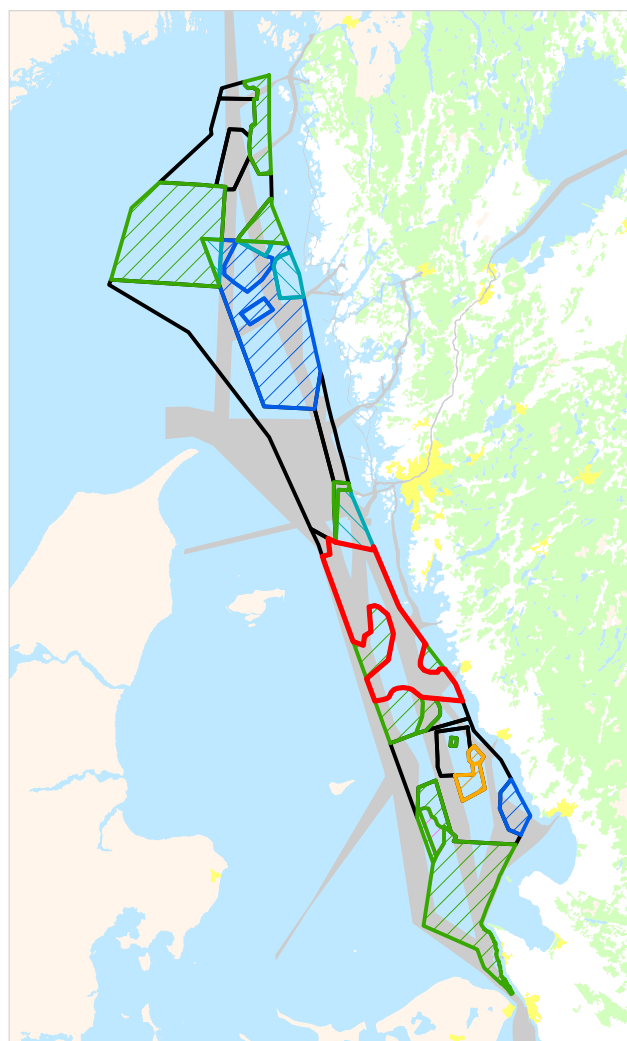
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	19.9	(20.58)
Spawning Fish	13.37	(13.72)
Cod	11.51	(11.18)
Softbottom Photic	9.92	(10.15)
Porpoise Northsea	8.59	(8.43)
Plankton Community	8.25	(8.65)
Porpoise Beltsea	6.43	(6.31)
Harbour Seals	5.31	(5.27)
Eel Migration	3.59	(2.95)
Transportbottom Photic	3.13	(3.06)
Transportbottom Aphotic	3.01	(3.09)
Sprat	2.36	(2.12)
Hardbottom Photic	1.96	(1.99)
Herring	0.82	(0.77)
Hardbottom Deep	0.64	(0.66)
Birds Coastal	0.6	(0.53)
Seabird Winter Offshore	0.39	(0.34)
Mussel Reefs Total	0.11	(0.12)
Seabird Winter Coastal	0.08	(0.07)
Haploops Reef	0.03	(0.03)
Softbottom Deep	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Deep Reef	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V312_G

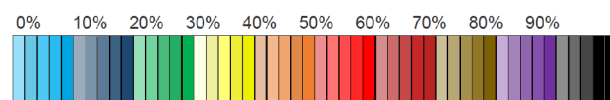
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	118%
S3 Kattegatt	136%
S1 Nuläge	103%

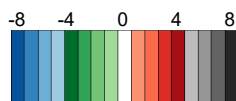
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

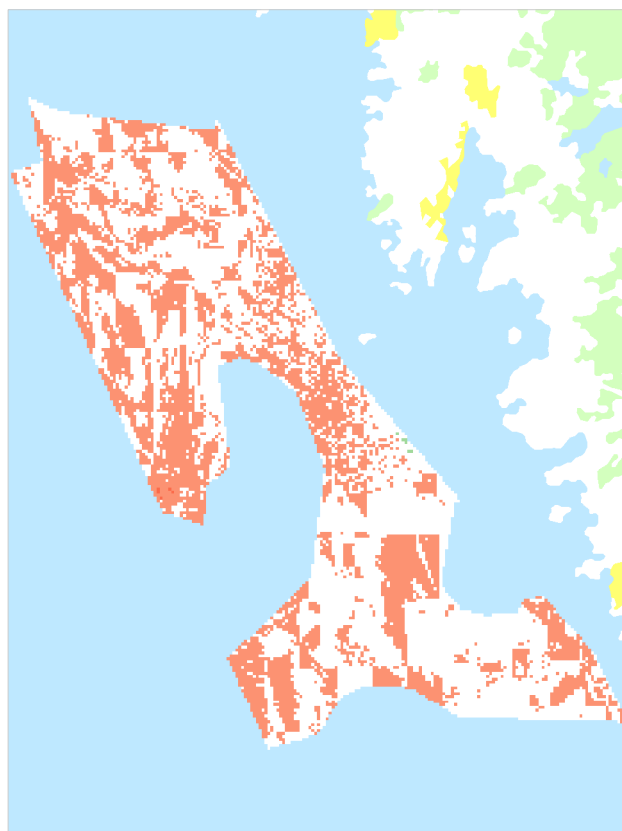
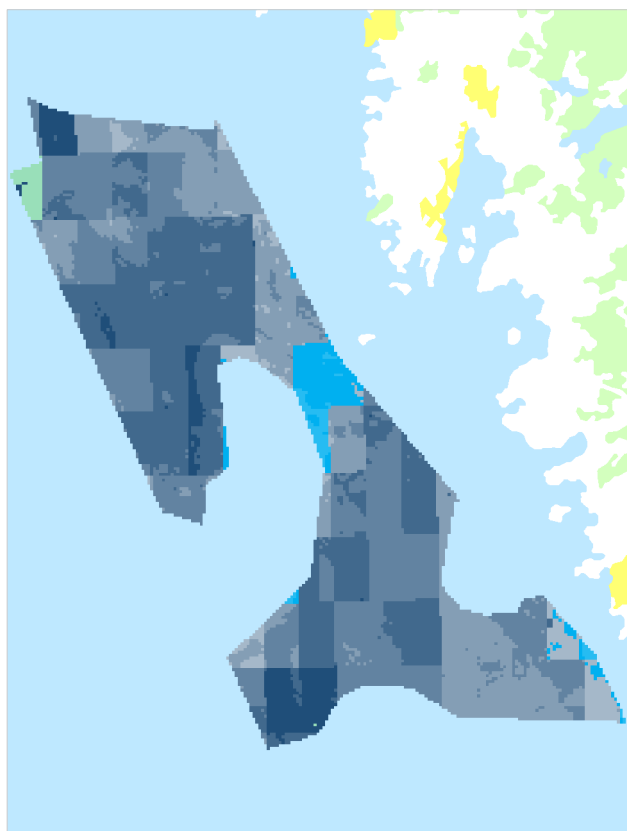


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.2	(2.27)
Anoxia Background	7.29	(7.49)
Nitrogen Background	17.73	(18.22)
Total	27.22	(27.97)
General pollution		
Tox Metal Background	1.33	(1.36)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	9.6	(9.86)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.45	(0.46)
Total	11.37	(11.68)
Shipping		
Turbidity Shipping	0.01	(0.01)
Noise 2000Hz Shipping	0.01	(0.0)
Oilspill 2knots Shipping	2.42	(1.99)
Noise 125Hz Shipping	13.44	(9.21)
Total	15.87	(11.21)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.02	(0.02)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.02	(0.02)
Recreational activities		
Boating Pollution	0.01	(0.01)
Boating Noise	0.0	(0.0)
Birdhunt	0.01	(0.01)
Total	0.01	(0.01)
Fisheries		
Abrasion Bottomtrawl	22.68	(24.47)
Catch Gillnet	0.12	(0.13)
Turbidity Bottom trawl	10.74	(11.6)
Catch Bottom trawl	11.73	(12.66)
Catch Pelagic trawl	0.19	(0.2)
Total	45.46	(49.07)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.04	(0.04)
Total	0.04	(0.04)

V312_G

Cumulative Effect

	S3	(S1)
Total	452270610.3	(440143578.4)
Mean	28376.9	(27616.0)
Std. Dev.	4508.3	(4654.2)
Min	11485.4	(10123.3)
Max	41788.1	(41114.4)
Area km²	996.73	

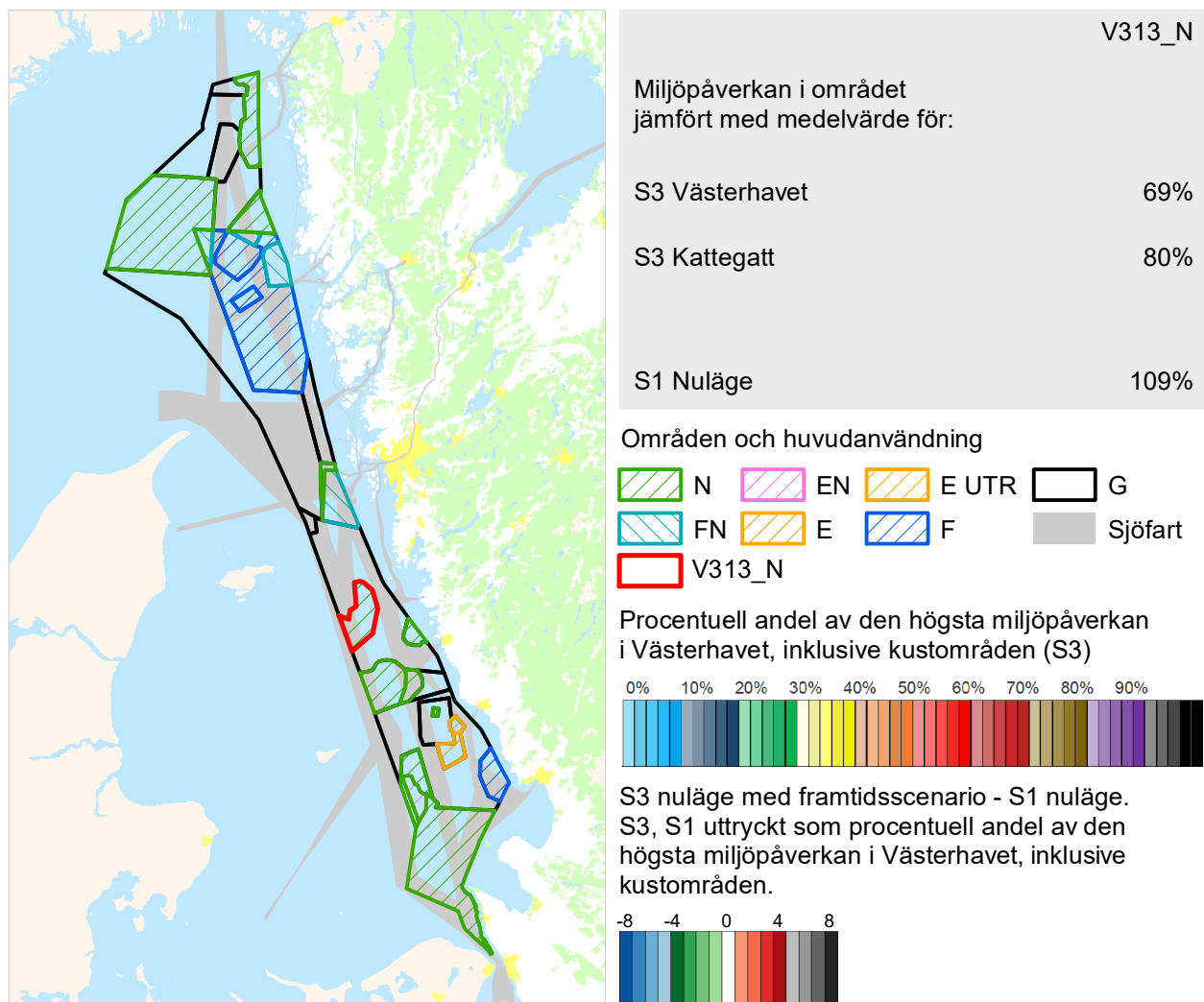
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	22.93	(23.6)
Porpoise Northsea	12.77	(12.59)
Cod	10.07	(9.9)
Softbottom Deep	10.03	(10.25)
Spawning Fish	9.29	(9.5)
Plankton Community	8.69	(8.97)
Herring	8.28	(7.82)
Harbour Seals	7.02	(6.99)
Sprat	4.81	(4.45)
Transportbottom Aphotic	2.25	(2.3)
Eel Migration	1.59	(1.37)
Softbottom Photic	0.92	(0.93)
Hardbottom Deep	0.34	(0.35)
Transportbottom Deep	0.3	(0.3)
Transportbottom Photic	0.22	(0.21)
Porpoise Beltsea	0.21	(0.21)
Hardbottom Photic	0.08	(0.08)
Hardbottom Aphotic	0.06	(0.07)
Birds Coastal	0.06	(0.06)
Seabird Winter Coastal	0.04	(0.04)
Artificial Reefs Total	0.01	(0.01)
Seabird Winter Offshore	0.01	(0.01)
Mussel Reefs Total	0.01	(0.01)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)

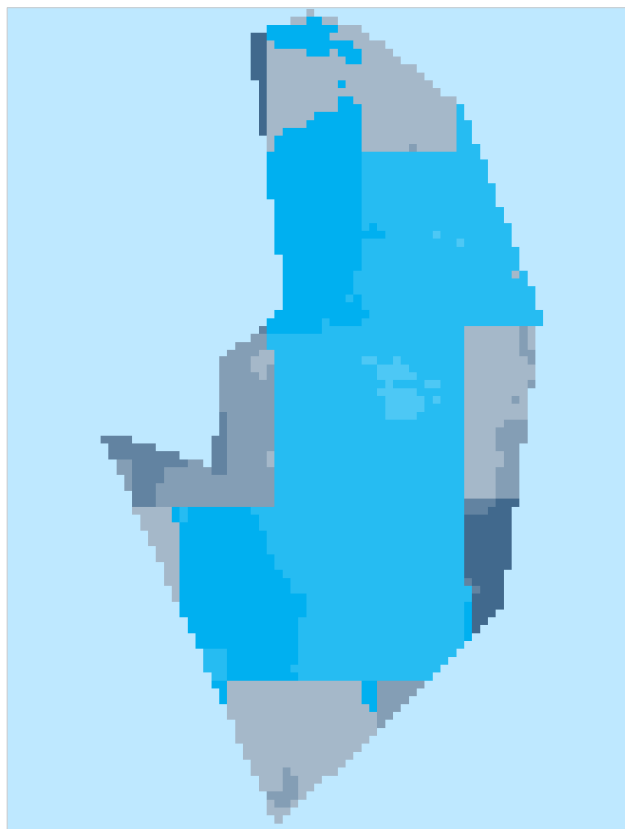
Calculated with SyM

Date: 2018-03-22

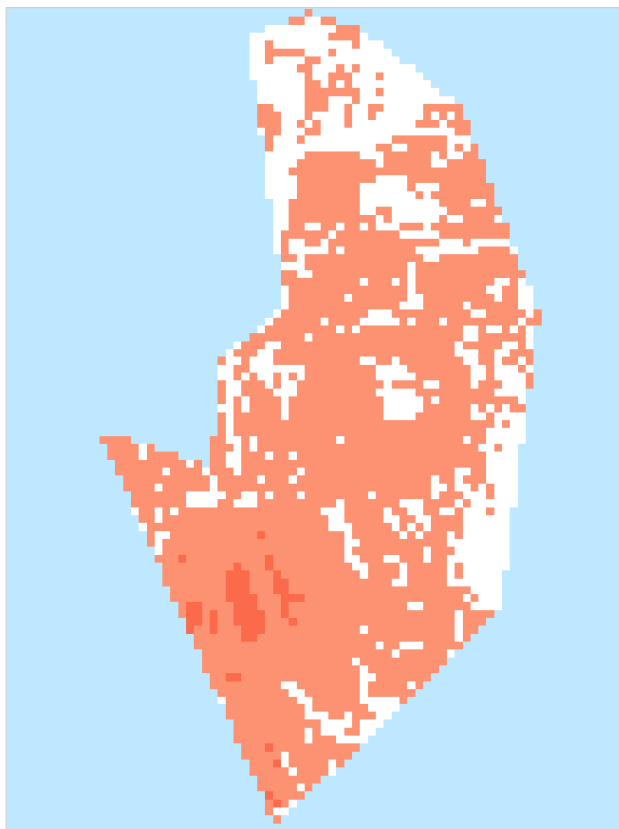
Medins Havs och Vattenkonsulter AB



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	3.41	(3.73)
Anoxia Background	7.86	(8.59)
Nitrogen Background	28.86	(31.54)
Total	40.12	(43.86)
General pollution		
Tox Metal Background	0.78	(0.85)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	7.72	(8.44)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.06	(0.07)
Total	8.56	(9.36)
Shipping		
Turbidity Shipping	0.25	(0.18)
Noise 2000Hz Shipping	0.04	(0.03)
Oilspill 2knots Shipping	3.67	(3.21)
Noise 125Hz Shipping	26.36	(19.21)
Total	30.33	(22.63)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.01	(0.01)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.01	(0.01)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.04	(0.04)
Total	0.04	(0.04)
Fisheries		
Abrasion Bottomtrawl	11.23	(12.92)
Catch Gillnet	0.18	(0.21)
Turbidity Bottom trawl	4.08	(4.7)
Catch Bottom trawl	4.97	(5.72)
Catch Pelagic trawl	0.49	(0.56)
Total	20.95	(24.1)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V313_N

Cumulative Effect

	S3	(S1)
Total	52465173.0	(47996629.6)
Mean	16719.3	(15295.3)
Std. Dev.	5054.5	(5281.0)
Min	10257.9	(8866.5)
Max	33109.4	(32871.8)
Area km²	195.77	

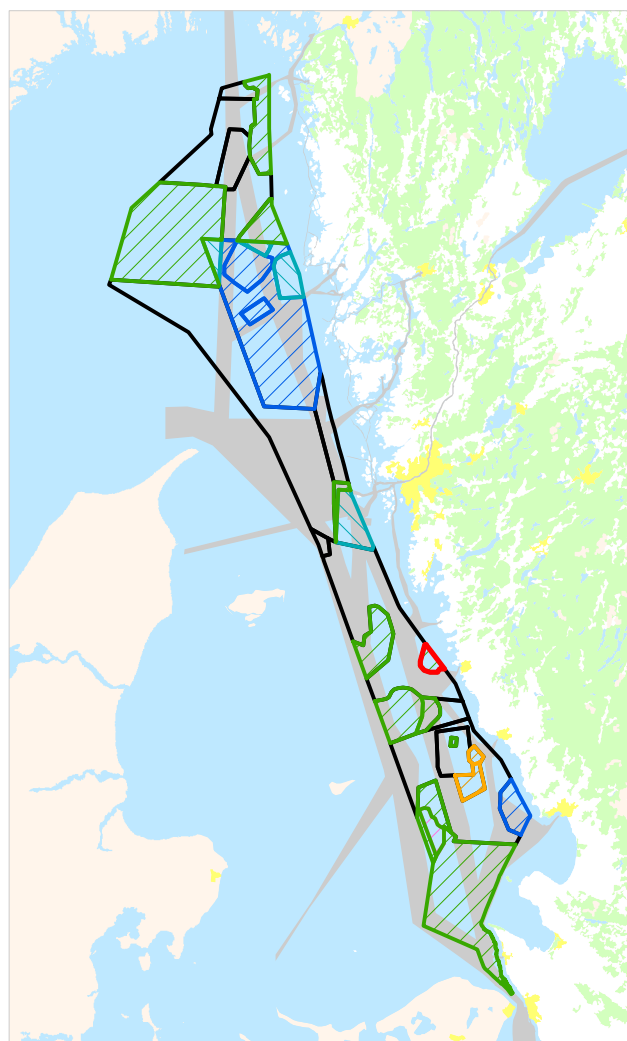
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Porpoise Northsea	13.27	(13.06)
Softbottom Aphotic	12.81	(13.6)
Cod	12.01	(11.67)
Spawning Fish	11.72	(12.23)
Herring	11.01	(10.29)
Plankton Community	8.08	(8.73)
Transportbottom Photic	6.16	(6.04)
Transportbottom Aphotic	6.11	(6.35)
Harbour Seals	6.08	(6.02)
Sprat	5.34	(4.68)
Softbottom Photic	3.31	(3.38)
Hardbottom Photic	1.7	(1.71)
Hardbottom Deep	0.83	(0.88)
Eel Migration	0.81	(0.68)
Seabird Winter Offshore	0.6	(0.53)
Mussel Reefs Total	0.06	(0.07)
Softbottom Deep	0.05	(0.06)
Birds Coastal	0.05	(0.05)
Transportbottom Deep	0.0	(0.01)
Artificial Reefs Total	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Deep Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V314_N

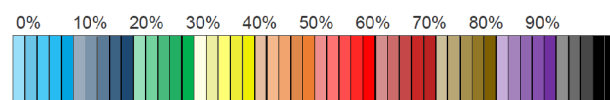
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	94%
S3 Kattegatt	108%
S1 Nuläge	103%

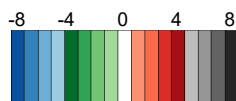
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

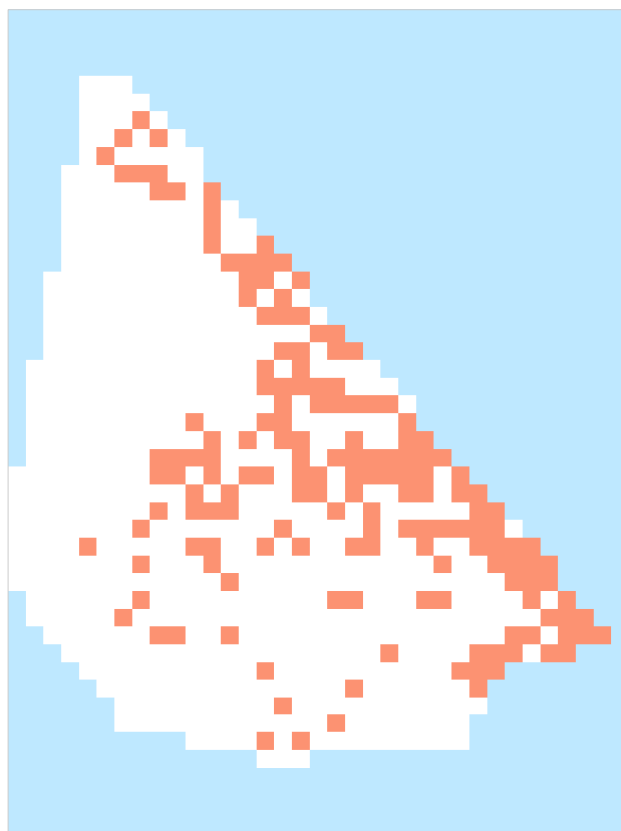
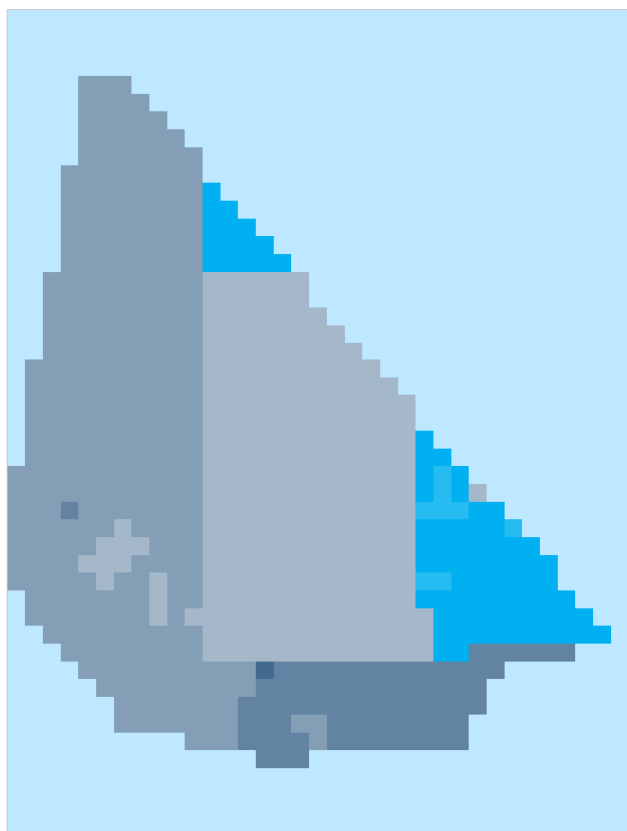


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.93	(3.01)
Anoxia Background	5.13	(5.29)
Nitrogen Background	20.45	(21.05)
Total	28.51	(29.35)
General pollution		
Tox Metal Background	2.57	(2.64)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	8.92	(9.19)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	11.49	(11.83)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.92	(1.58)
Noise 125Hz Shipping	14.39	(9.88)
Total	16.31	(11.46)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.02	(0.02)
Boating Noise	0.01	(0.01)
Birdhunt	0.02	(0.02)
Total	0.05	(0.05)
Fisheries		
Abrasion Bottomtrawl	23.44	(25.41)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	9.73	(10.55)
Catch Bottom trawl	10.47	(11.34)
Catch Pelagic trawl	0.0	(0.0)
Total	43.64	(47.3)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V314_N

Cumulative Effect

	S3	(S1)
Total	16516080.1	(16039333.5)
Mean	22532.2	(21881.8)
Std. Dev.	3268.0	(3531.5)
Min	14231.3	(12908.6)
Max	30439.0	(30024.1)
Area km²	45.82	

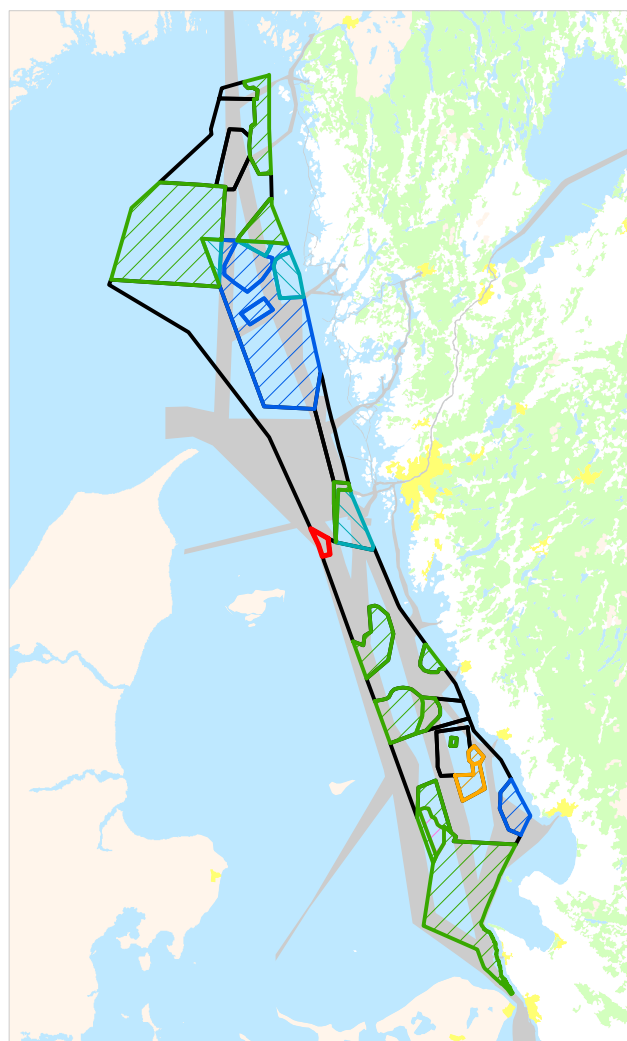
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	28.65	(29.55)
Spawning Fish	14.56	(14.86)
Porpoise Northsea	14.42	(14.19)
Plankton Community	9.23	(9.57)
Harbour Seals	8.24	(8.19)
Softbottom Photic	6.85	(6.9)
Eel Migration	4.46	(3.75)
Sprat	4.4	(4.02)
Herring	3.2	(3.01)
Transportbottom Aphotic	2.53	(2.59)
Transportbottom Photic	1.36	(1.31)
Hardbottom Photic	1.03	(1.03)
Hardbottom Deep	0.5	(0.51)
Birds Coastal	0.35	(0.3)
Seabird Winter Offshore	0.14	(0.12)
Mussel Reefs Total	0.04	(0.04)
Artificial Reefs Total	0.04	(0.04)
Cod	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Deep	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Transportbottom Deep	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V315_Gn

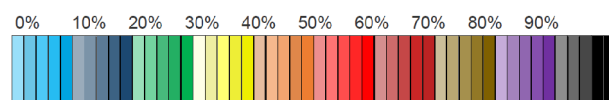
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	124%
S3 Kattegatt	144%
S1 Nuläge	105%

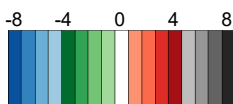
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

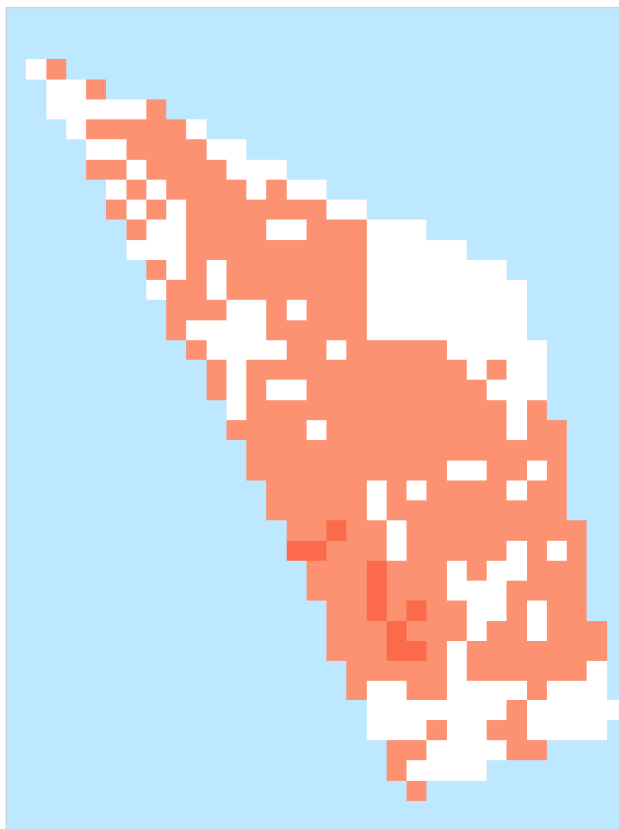
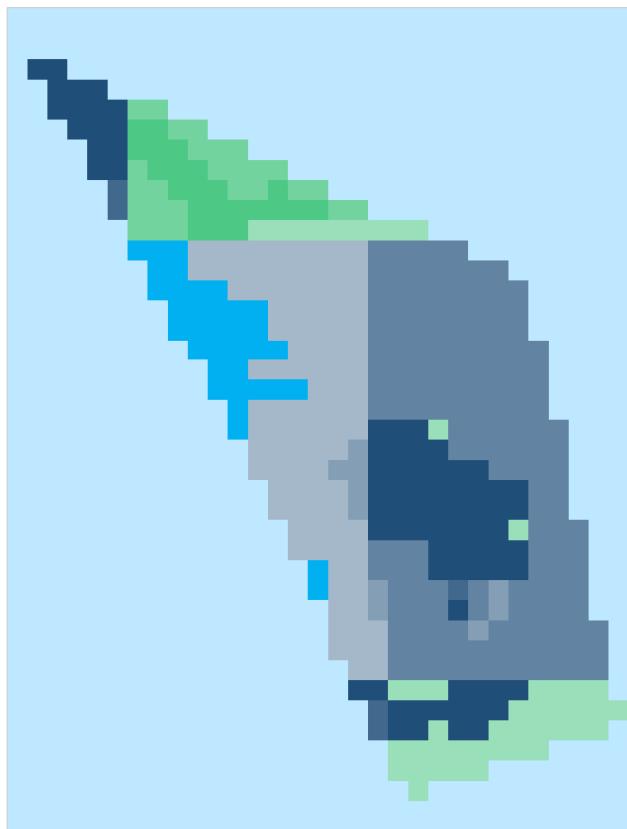


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.13	(2.24)
Anoxia Background	0.92	(0.96)
Nitrogen Background	17.54	(18.42)
Total	20.59	(21.62)
General pollution		
Tox Metal Background	0.0	(0.0)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	3.2	(3.36)
Tox Munition	0.0	(0.0)
Tox Mine Risk	2.22	(2.33)
Total	5.42	(5.69)
Shipping		
Turbidity Shipping	0.45	(0.31)
Noise 2000Hz Shipping	0.12	(0.08)
Oilspill 2knots Shipping	3.32	(2.79)
Noise 125Hz Shipping	19.52	(13.67)
Total	23.4	(16.86)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	23.87	(26.32)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	12.6	(13.91)
Catch Bottom trawl	14.07	(15.53)
Catch Pelagic trawl	0.06	(0.07)
Total	50.59	(55.83)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Musselselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V315_Gn

Cumulative Effect

	S3	(S1)
Total	14257023.4	(13572719.9)
Mean	29951.7	(28514.1)
Std. Dev.	8475.4	(8790.4)
Min	16470.7	(14926.0)
Max	46742.8	(45701.9)
Area km²	29.85	

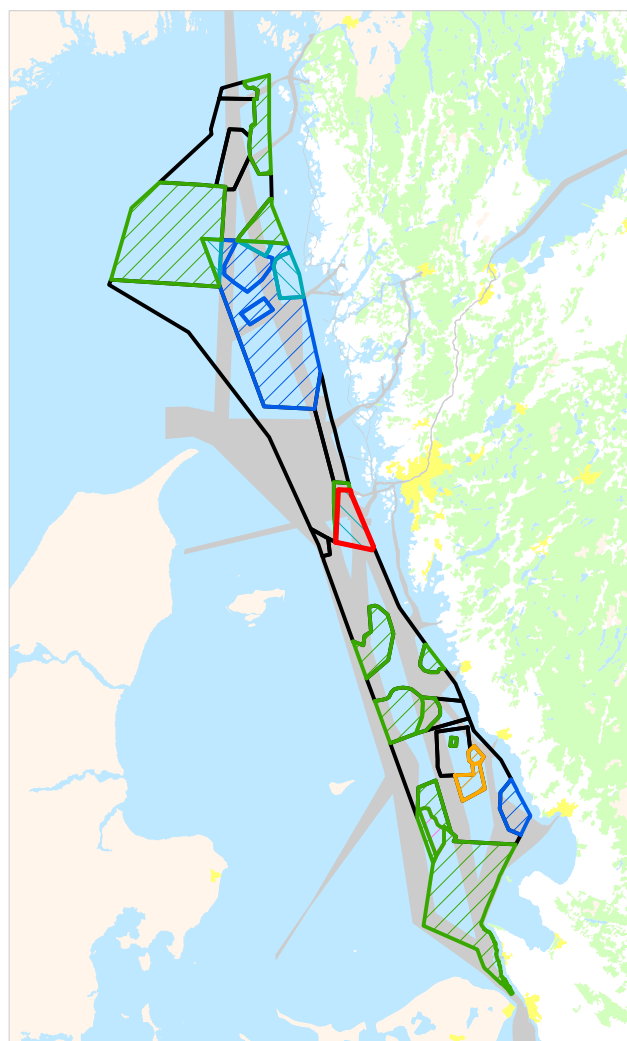
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	18.43	(19.23)
Porpoise Northsea	13.73	(13.42)
Cod	11.47	(11.16)
Herring	9.89	(9.2)
Spawning Fish	9.33	(9.61)
Plankton Community	8.66	(9.09)
Harbour Seals	6.95	(6.89)
Sprat	6.05	(5.51)
Transportbottom Aphotic	5.98	(6.11)
Deep Reef	2.97	(3.21)
Transportbottom Photic	1.98	(1.9)
Hardbottom Deep	1.68	(1.73)
Hardbottom Photic	0.96	(0.97)
Softbottom Photic	0.92	(0.94)
Softbottom Deep	0.84	(0.87)
Mussel Reefs Total	0.09	(0.1)
Artificial Reefs Total	0.04	(0.04)
Transportbottom Deep	0.04	(0.04)
Hardbottom Aphotic	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Eel Migration	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V330_FN

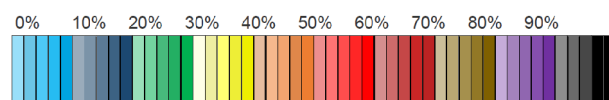
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	117%
S3 Skagerrak	107%
S1 Nuläge	107%

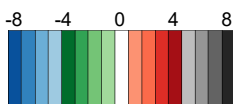
Områden och huvudanvändning

N	EN	E UTR	G
FN	E	F	Sjöfart
V330_FN			

Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

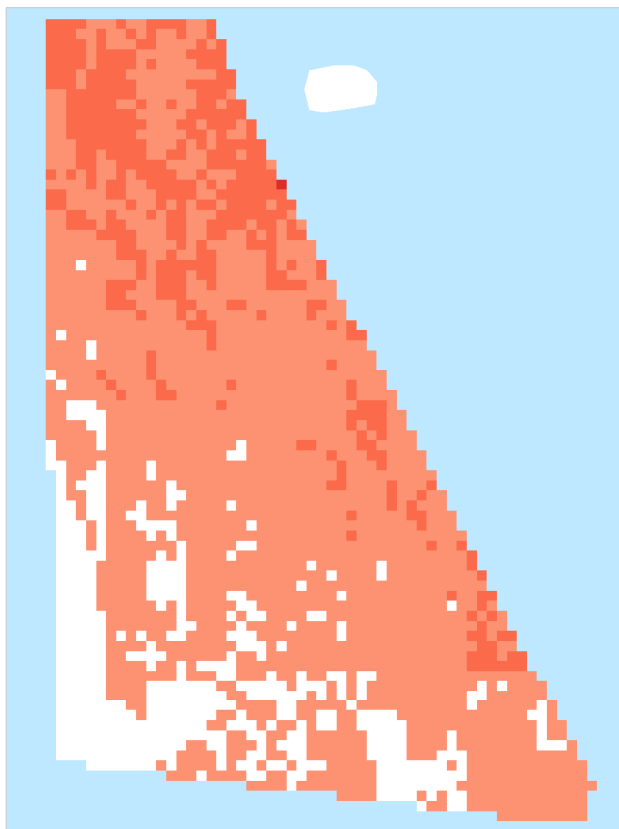
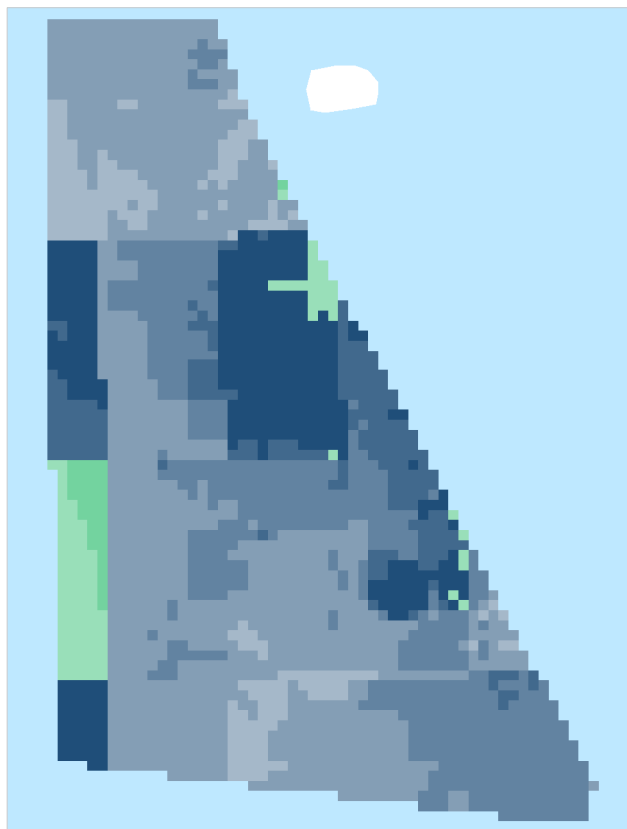


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.36	(2.53)
Anoxia Background	3.79	(4.06)
Nitrogen Background	19.64	(21.05)
Total	25.79	(27.64)
General pollution		
Tox Metal Background	0.0	(0.0)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	9.25	(9.91)
Tox Munition	0.0	(0.0)
Tox Mine Risk	1.45	(1.56)
Total	10.7	(11.47)
Shipping		
Turbidity Shipping	0.01	(0.01)
Noise 2000Hz Shipping	0.17	(0.12)
Oilspill 2knots Shipping	3.53	(3.03)
Noise 125Hz Shipping	23.31	(16.65)
Total	27.03	(19.81)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.05	(0.05)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.05	(0.05)
Recreational activities		
Boating Pollution	0.06	(0.06)
Boating Noise	0.02	(0.02)
Birdhunt	0.03	(0.03)
Total	0.11	(0.12)
Fisheries		
Abrasion Bottomtrawl	16.96	(19.13)
Catch Gillnet	0.15	(0.17)
Turbidity Bottom trawl	7.58	(8.55)
Catch Bottom trawl	7.95	(8.97)
Catch Pelagic trawl	3.15	(3.56)
Total	35.8	(40.38)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.41	(0.42)
Explosion PM	0.0	(0.0)
Total	0.41	(0.42)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.1	(0.1)
Total	0.1	(0.1)

V330_FN

Cumulative Effect

	S3	(S1)
Total	76240639.4	(71144226.8)
Mean	28279.2	(26388.8)
Std. Dev.	5304.9	(5527.9)
Min	19815.8	(17198.9)
Max	43035.8	(42462.5)
Area km²	168.91	

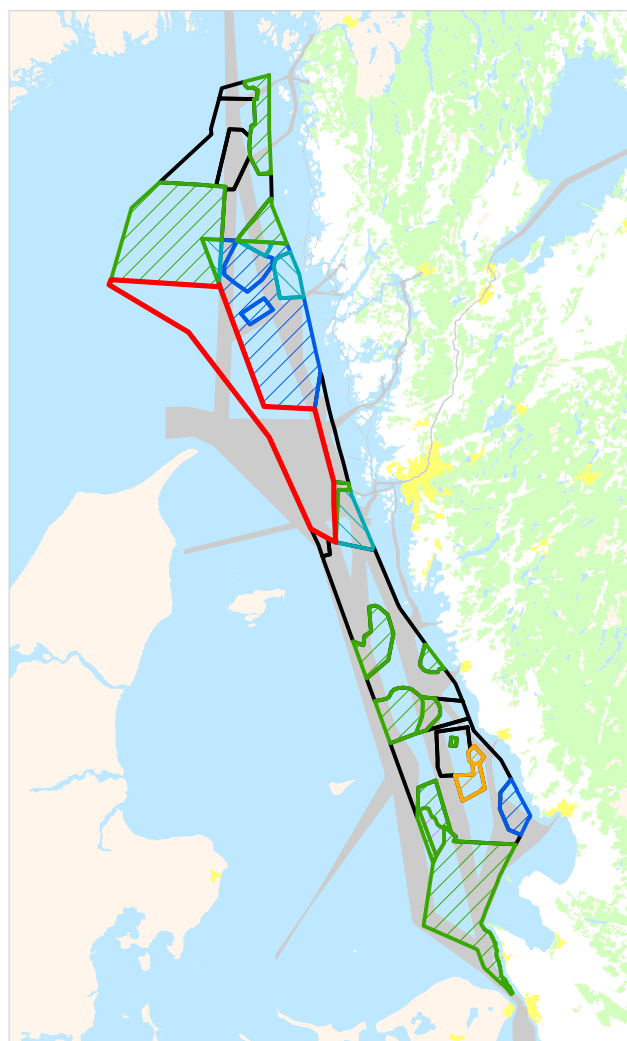
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	13.47	(14.13)
Porpoise Northsea	12.91	(12.77)
Cod	12.7	(12.37)
Softbottom Deep	12.01	(12.5)
Herring	11.77	(11.12)
Sprat	9.04	(8.27)
Plankton Community	7.79	(8.31)
Harbour Seals	7.41	(7.4)
Spawning Fish	7.14	(7.43)
Transportbottom Aphotic	1.5	(1.54)
Eel Migration	1.37	(1.13)
Transportbottom Deep	0.68	(0.71)
Mussel Reefs Total	0.51	(0.57)
Deep Reef	0.5	(0.55)
Hardbottom Deep	0.44	(0.45)
Hardbottom Aphotic	0.35	(0.36)
Seabird Winter Coastal	0.14	(0.12)
Transportbottom Photic	0.12	(0.12)
Softbottom Photic	0.06	(0.07)
Hardbottom Photic	0.06	(0.06)
Artificial Reefs Total	0.01	(0.01)
Birds Coastal	0.01	(0.01)
Rivermouth Fish	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V331_G

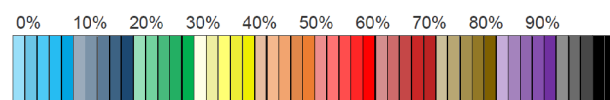
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	138%
S3 Skagerrak	126%
S1 Nuläge	100%

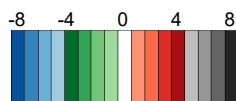
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

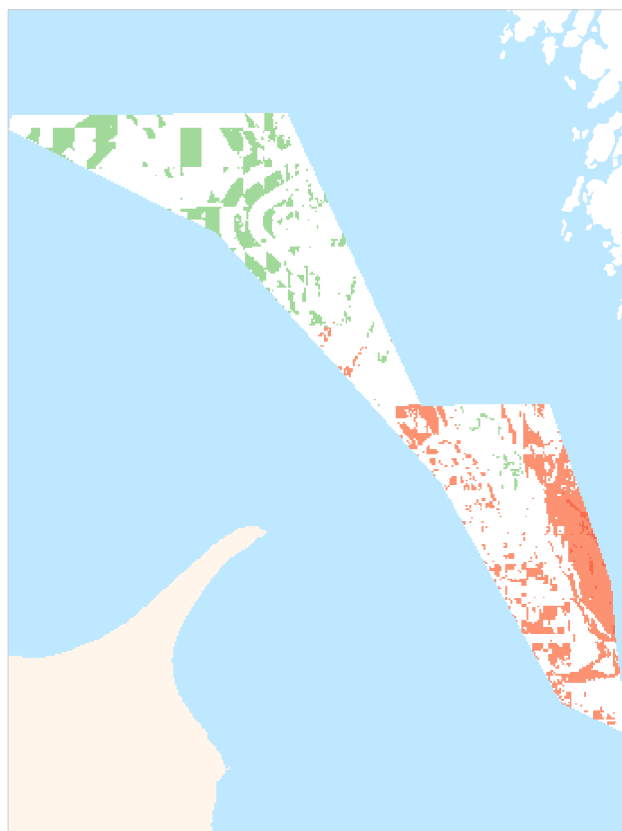
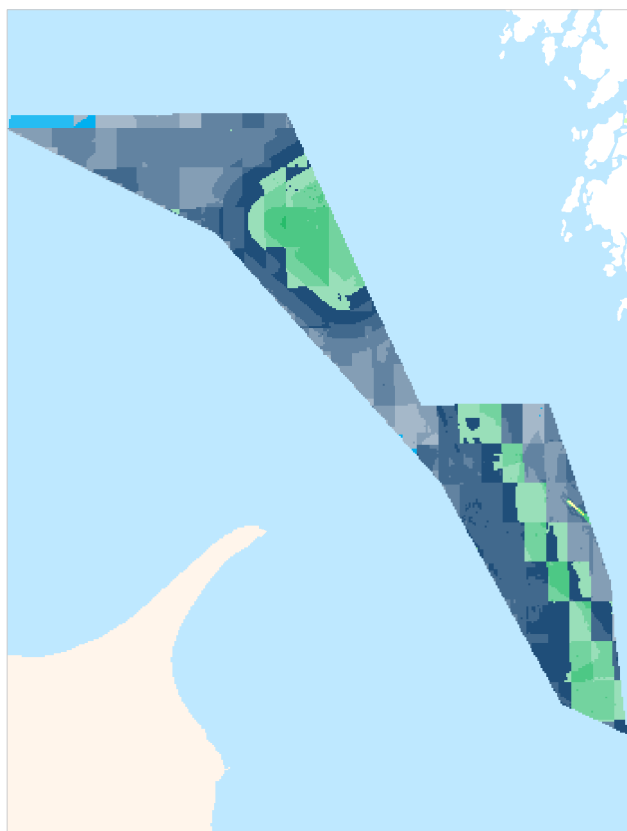


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	1.58	(1.59)
Anoxia Background	0.25	(0.25)
Nitrogen Background	16.15	(16.18)
Total	17.99	(18.02)
General pollution		
Tox Metal Background	1.31	(1.31)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	9.1	(9.12)
Tox Munition	7.05	(7.07)
Tox Mine Risk	0.44	(0.44)
Total	17.9	(17.94)
Shipping		
Turbidity Shipping	0.01	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.93	(1.54)
Noise 125Hz Shipping	7.69	(5.14)
Total	9.62	(6.68)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.1	(0.1)
Boating Noise	0.04	(0.03)
Birdhunt	0.0	(0.0)
Total	0.14	(0.13)
Fisheries		
Abrasion Bottomtrawl	23.54	(24.82)
Catch Gillnet	0.79	(0.83)
Turbidity Bottom trawl	13.0	(13.71)
Catch Bottom trawl	15.81	(16.67)
Catch Pelagic trawl	0.31	(0.33)
Total	53.45	(56.37)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.9	(0.86)
Explosion PM	0.0	(0.0)
Total	0.9	(0.86)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V331_G

Cumulative Effect

	S3	(S1)
Total	796258180.0	(794771588.7)
Mean	33238.4	(33176.3)
Std. Dev.	7425.5	(7492.1)
Min	11862.6	(11378.9)
Max	66814.7	(63251.5)
Area km²	1497.03	

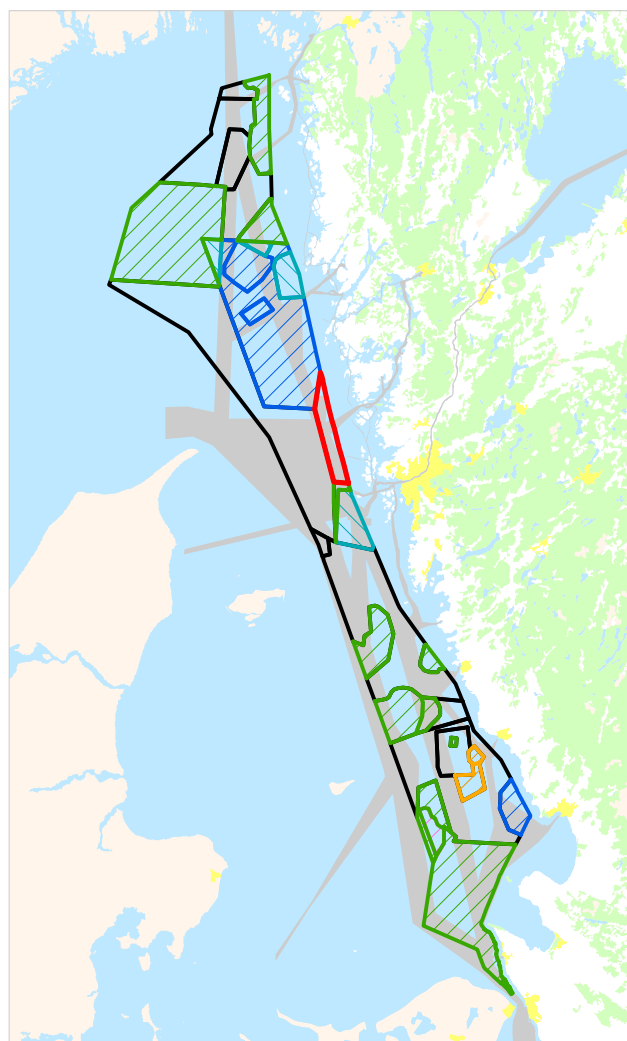
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	22.7	(23.16)
Cod	13.86	(13.73)
Spawning Fish	13.09	(13.34)
Porpoise Northsea	12.29	(12.15)
Herring	10.35	(10.01)
Softbottom Aphotic	9.29	(9.44)
Plankton Community	8.78	(8.9)
Sprat	4.77	(4.43)
Harbour Seals	3.26	(3.21)
Transportbottom Aphotic	0.96	(0.98)
Transportbottom Deep	0.35	(0.36)
Hardbottom Deep	0.18	(0.18)
Eel Migration	0.04	(0.03)
Artificial Reefs Total	0.04	(0.04)
Hardbottom Aphotic	0.04	(0.04)
Seabird Winter Offshore	0.01	(0.0)
Mussel Reefs Total	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Angiosperms	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Grey Seals	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V332_Gn

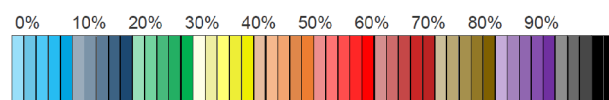
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	121%
S3 Skagerrak	111%
S1 Nuläge	105%

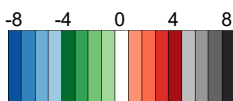
Områden och huvudanvändning



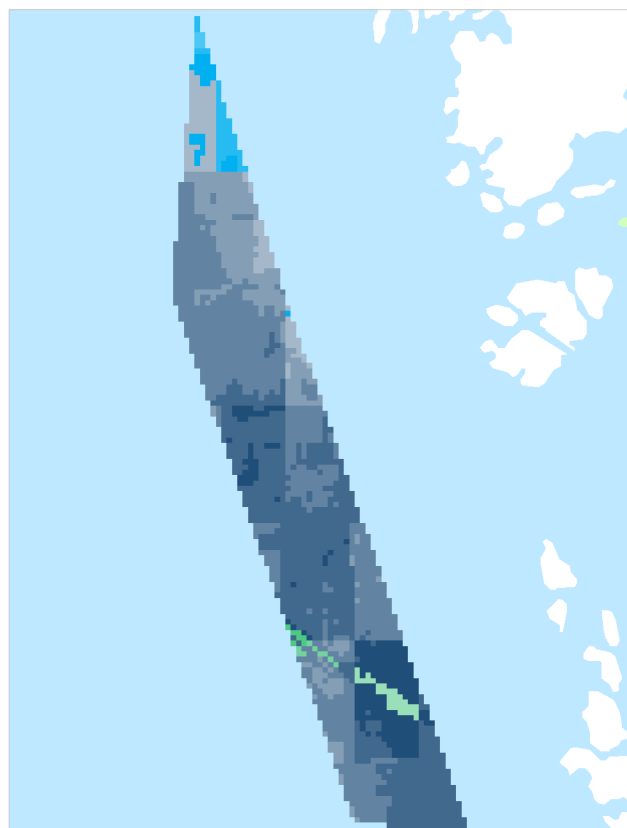
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



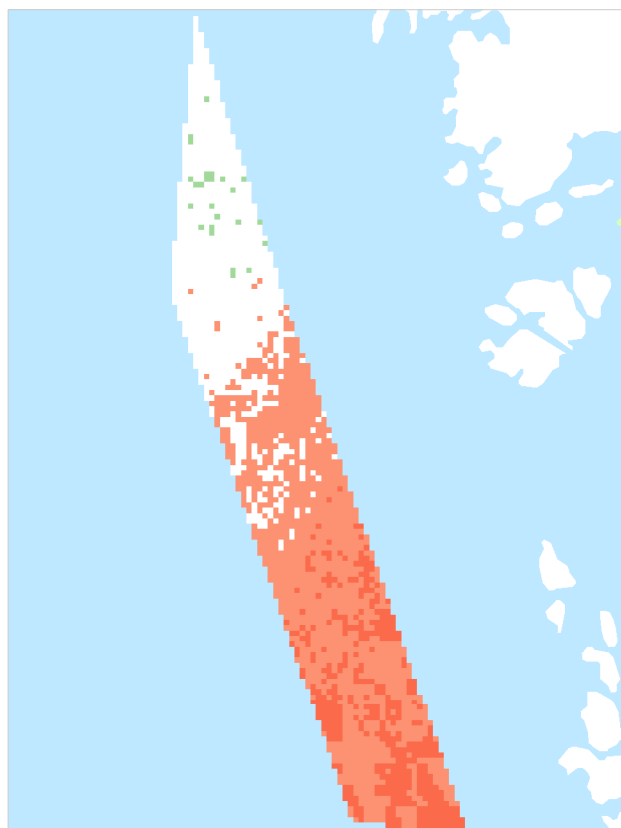
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.27	(2.39)
Anoxia Background	6.29	(6.63)
Nitrogen Background	19.33	(20.37)
Total	27.88	(29.4)
General pollution		
Tox Metal Background	0.0	(0.0)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	9.03	(9.52)
Tox Munition	0.0	(0.0)
Tox Mine Risk	1.67	(1.76)
Total	10.7	(11.28)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.11	(0.07)
Oilspill 2knots Shipping	2.36	(1.99)
Noise 125Hz Shipping	18.26	(12.83)
Total	20.72	(14.9)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.58	(0.58)
Boating Noise	0.21	(0.21)
Birdhunt	0.01	(0.01)
Total	0.8	(0.81)
Fisheries		
Abrasion Bottomtrawl	16.72	(18.55)
Catch Gillnet	0.89	(0.98)
Turbidity Bottom trawl	7.04	(7.81)
Catch Bottom trawl	7.96	(8.83)
Catch Pelagic trawl	1.25	(1.38)
Total	33.85	(37.56)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	6.04	(6.06)
Explosion PM	0.0	(0.0)
Total	6.04	(6.06)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V332_Gn

Cumulative Effect

	S3	(S1)
Total	77826230.3	(73827691.1)
Mean	29236.0	(27733.9)
Std. Dev.	4929.5	(4370.8)
Min	10151.2	(10108.0)
Max	49237.1	(46143.2)
Area km²	166.34	

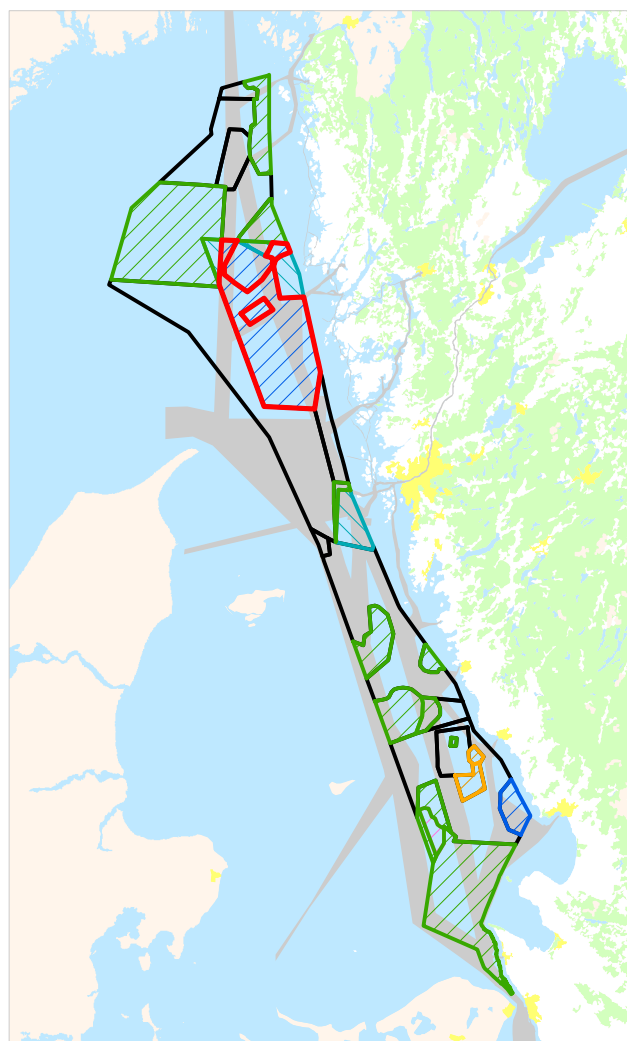
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Aphotic	14.21	(14.66)
Cod	14.09	(13.86)
Porpoise Northsea	13.49	(13.38)
Herring	11.96	(11.38)
Sprat	9.65	(8.94)
Spawning Fish	9.19	(9.56)
Softbottom Deep	8.91	(9.29)
Plankton Community	7.0	(7.38)
Harbour Seals	6.46	(6.45)
Transportbottom Aphotic	1.97	(2.06)
Hardbottom Deep	1.61	(1.65)
Eel Migration	0.67	(0.56)
Transportbottom Deep	0.34	(0.36)
Hardbottom Aphotic	0.25	(0.26)
Artificial Reefs Total	0.08	(0.08)
Hardbottom Photic	0.05	(0.05)
Softbottom Photic	0.02	(0.02)
Birds Coastal	0.02	(0.02)
Transportbottom Photic	0.02	(0.02)
Seabird Winter Coastal	0.01	(0.01)
Rivermouth Fish	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V333_F

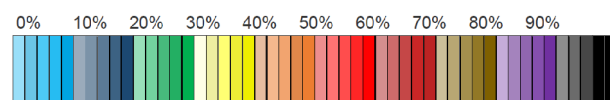
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	112%
S3 Skagerrak	102%
S1 Nuläge	102%

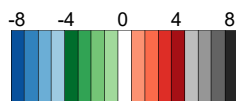
Områden och huvudanvändning



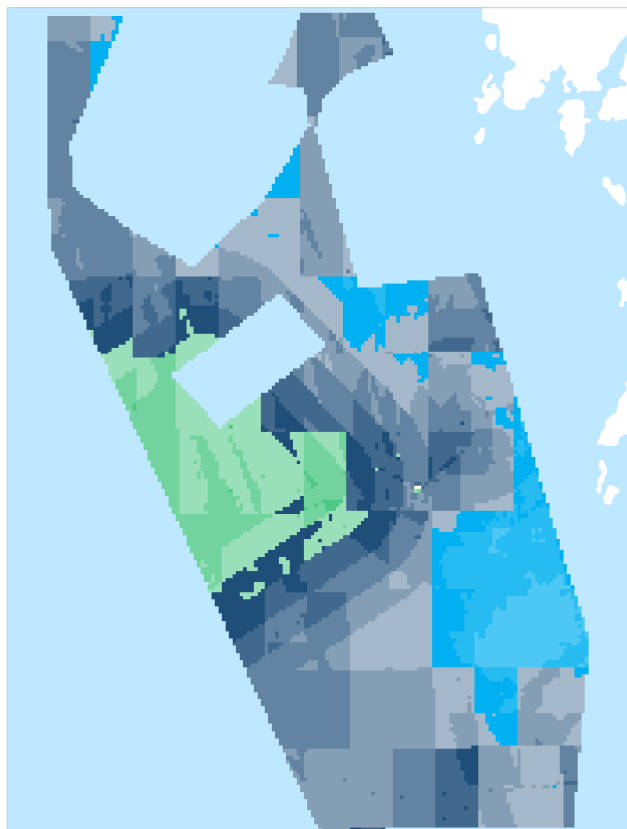
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



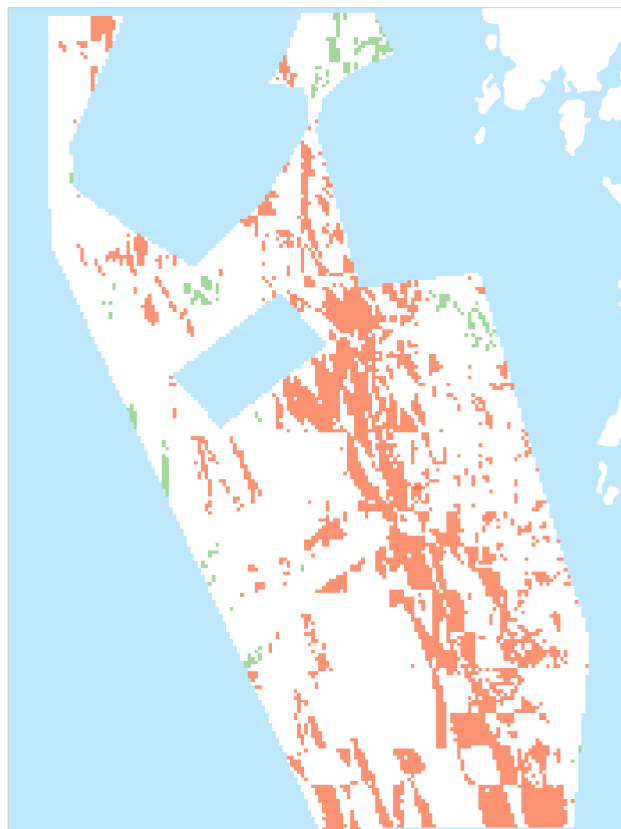
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.1	(2.13)
Anoxia Background	0.85	(0.86)
Nitrogen Background	21.57	(21.9)
Total	24.53	(24.9)
General pollution		
Tox Metal Background	0.32	(0.33)
Oilspill 2knots Wreck	3.21	(3.26)
Tox Synthetic Background	9.55	(9.7)
Tox Munition	16.28	(16.52)
Tox Mine Risk	0.04	(0.04)
Total	29.4	(29.85)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	2.11	(1.71)
Noise 125Hz Shipping	8.19	(5.54)
Total	10.3	(7.25)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.06	(0.05)
Boating Noise	0.02	(0.02)
Birdhunt	0.0	(0.0)
Total	0.08	(0.08)
Fisheries		
Abrasion Bottomtrawl	16.79	(17.94)
Catch Gillnet	1.21	(1.29)
Turbidity Bottom trawl	7.09	(7.58)
Catch Bottom trawl	8.42	(9.0)
Catch Pelagic trawl	0.07	(0.07)
Total	33.58	(35.88)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	2.11	(2.04)
Explosion PM	0.0	(0.0)
Total	2.12	(2.05)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V333_F

Cumulative Effect

	S3	(S1)
Total	472348986.9	(465320968.9)
Mean	26963.6	(26562.4)
Std. Dev.	8709.4	(8907.2)
Min	7535.1	(7256.2)
Max	60370.4	(57783.4)
Area km²	1094.67	

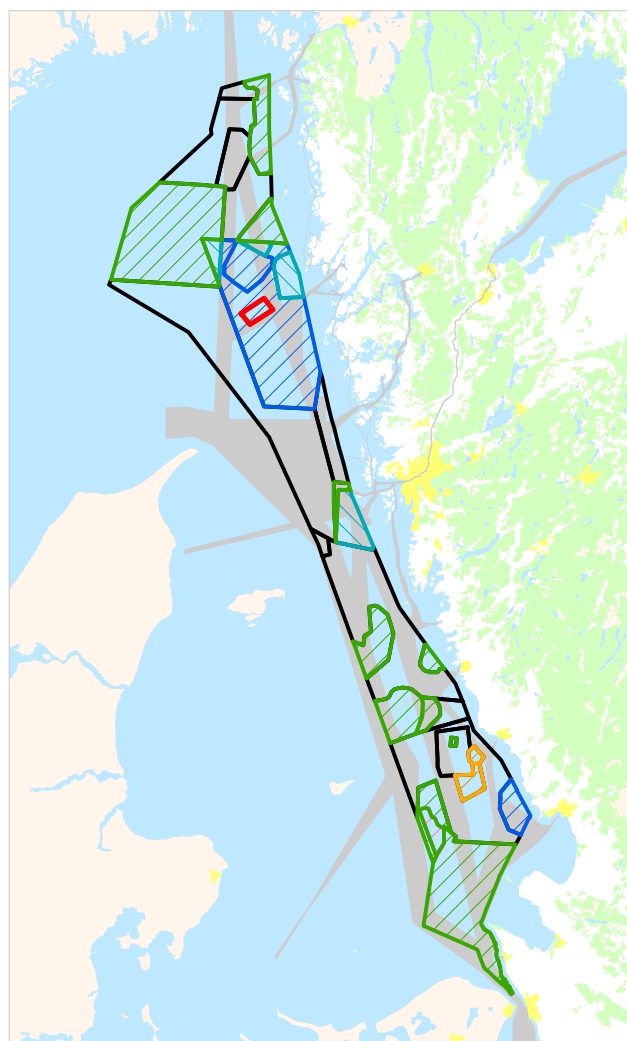
Impacts Per Ecosystem

Name	% of Total S3	(S1)
Softbottom Deep	26.3	(26.8)
Spawning Fish	14.96	(15.17)
Cod	13.64	(13.51)
Porpoise Northsea	11.55	(11.4)
Herring	10.86	(10.56)
Plankton Community	8.62	(8.76)
Harbour Seals	6.02	(6.01)
Sprat	5.22	(4.93)
Softbottom Aphotic	1.19	(1.22)
Transportbottom Deep	0.86	(0.86)
Transportbottom Aphotic	0.48	(0.49)
Hardbottom Aphotic	0.1	(0.1)
Hardbottom Deep	0.09	(0.09)
Eel Migration	0.03	(0.03)
Artificial Reefs Total	0.03	(0.03)
Transportbottom Photic	0.02	(0.02)
Softbottom Photic	0.02	(0.02)
Seabird Winter Coastal	0.01	(0.01)
Deep Reef	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V334_Fn

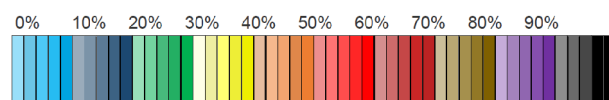
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	143%
S3 Skagerrak	131%
S1 Nuläge	100%

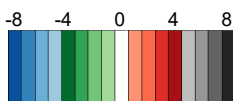
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

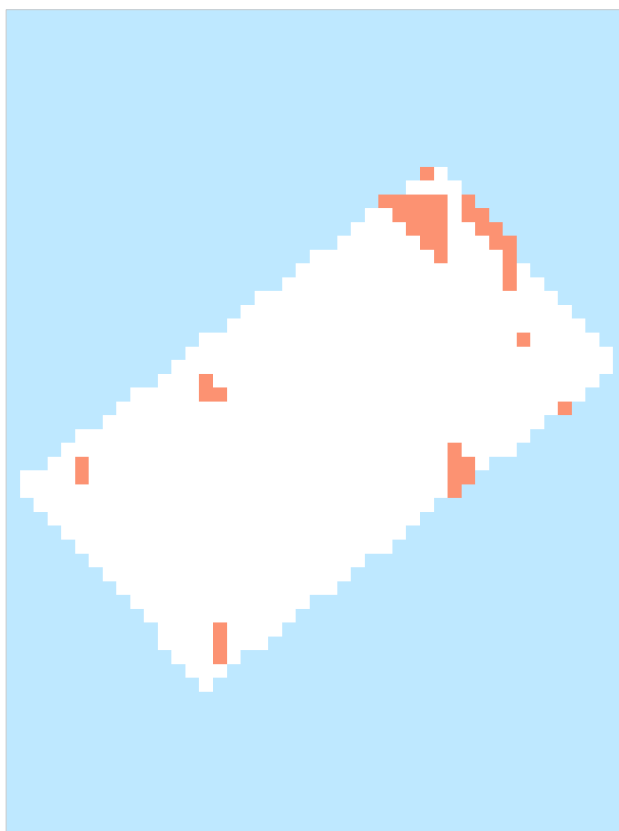
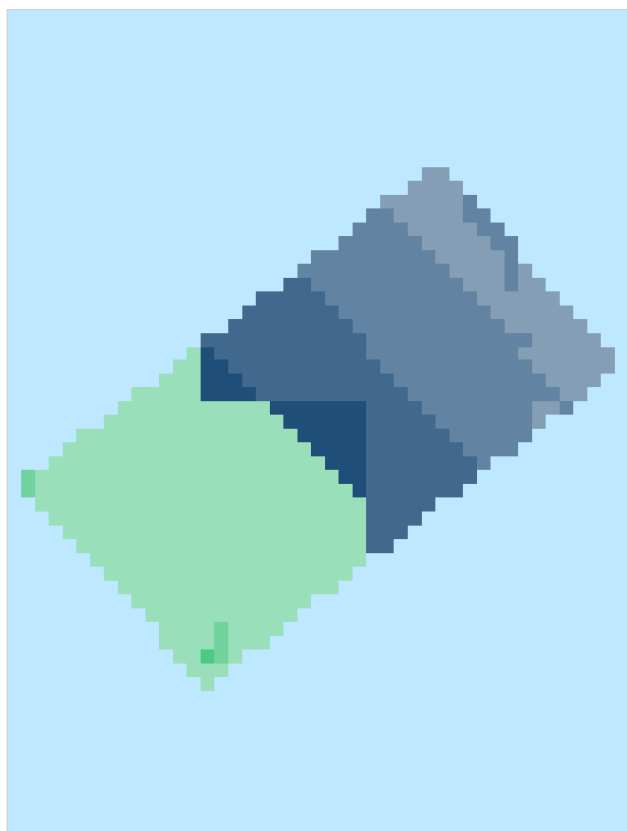


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	1.51	(1.51)
Anoxia Background	0.01	(0.01)
Nitrogen Background	16.14	(16.2)
Total	17.66	(17.73)
General pollution		
Tox Metal Background	0.13	(0.13)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	7.94	(7.98)
Tox Munition	36.23	(36.37)
Tox Mine Risk	0.0	(0.0)
Total	44.31	(44.48)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.35	(1.09)
Noise 125Hz Shipping	5.08	(3.4)
Total	6.43	(4.48)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	15.83	(16.73)
Catch Gillnet	1.58	(1.67)
Turbidity Bottom trawl	6.15	(6.5)
Catch Bottom trawl	7.21	(7.62)
Catch Pelagic trawl	0.0	(0.0)
Total	30.78	(32.52)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.83	(0.79)
Explosion PM	0.0	(0.0)
Total	0.83	(0.79)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V334_Fn

Cumulative Effect

	S3	(S1)
Total	26278745.5	(26178357.3)
Mean	34486.5	(34354.8)
Std. Dev.	5781.0	(5930.0)
Min	24443.5	(24245.2)
Max	46429.7	(46182.5)
Area km²	47.71	

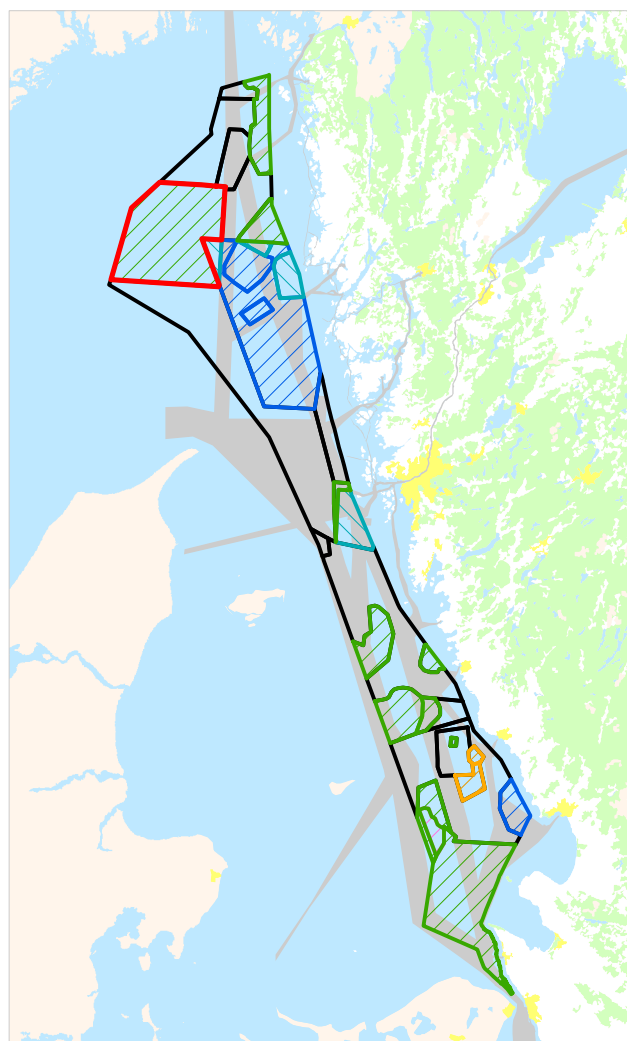
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	30.03	(30.37)
Cod	17.46	(17.34)
Herring	13.71	(13.49)
Spawning Fish	13.3	(13.4)
Porpoise Northsea	10.04	(9.92)
Harbour Seals	7.35	(7.34)
Plankton Community	6.73	(6.77)
Sprat	0.9	(0.87)
Transportbottom Deep	0.47	(0.48)
Artificial Reefs Total	0.02	(0.02)
Seabird Winter Coastal	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Eel Migration	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Softbottom Aphotic	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Aphotic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Hardbottom Deep	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V335_N

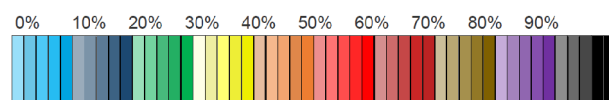
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	87%
S3 Skagerrak	79%
S1 Nuläge	99%

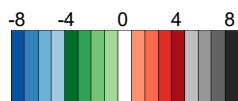
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



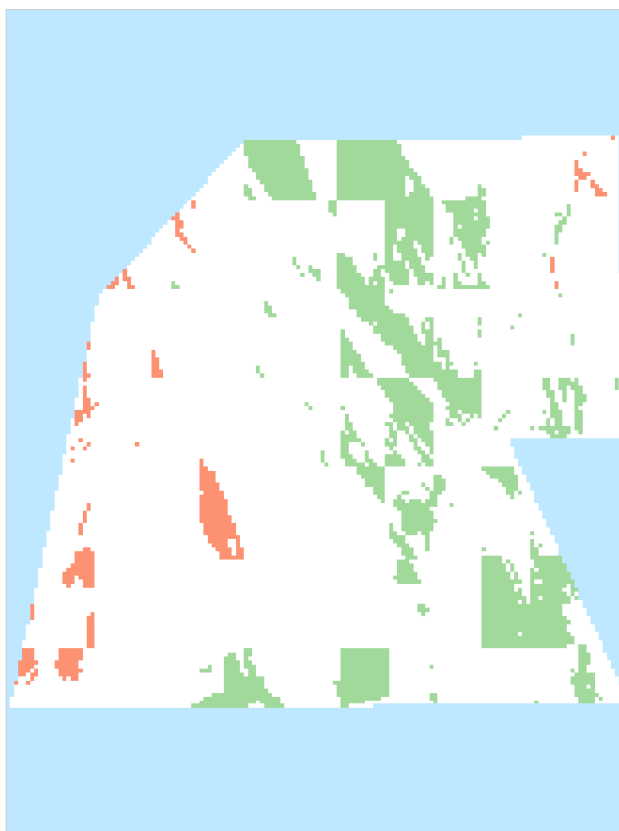
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	1.82	(1.79)
Anoxia Background	0.0	(0.0)
Nitrogen Background	21.53	(21.24)
Total	23.35	(23.03)
General pollution		
Tox Metal Background	6.79	(6.7)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	17.21	(16.98)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	24.0	(23.68)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.1	(0.87)
Noise 125Hz Shipping	2.9	(1.91)
Total	4.0	(2.78)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	24.25	(25.18)
Catch Gillnet	0.06	(0.06)
Turbidity Bottom trawl	11.06	(11.48)
Catch Bottom trawl	13.28	(13.79)
Catch Pelagic trawl	0.0	(0.0)
Total	48.65	(50.52)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V335_N

Cumulative Effect

	S3	(S1)
Total	372478382.1	(377595706.1)
Mean	20934.0	(21221.6)
Std. Dev.	6791.3	(7145.1)
Min	8878.4	(8574.0)
Max	44203.8	(45138.5)
Area km²	1112.29	

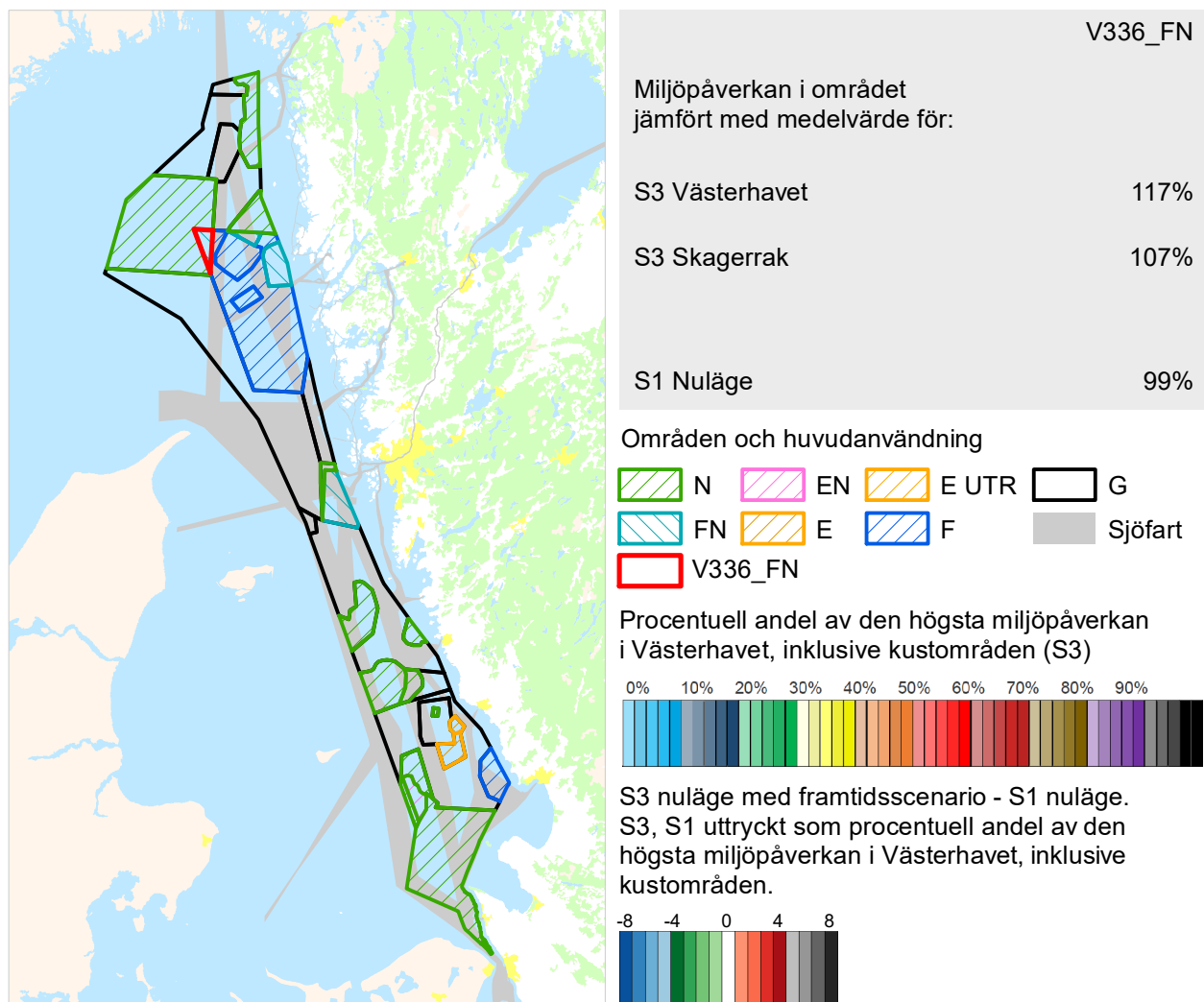
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	38.92	(39.21)
Spawning Fish	19.02	(19.12)
Plankton Community	12.61	(12.55)
Cod	11.59	(11.51)
Porpoise Northsea	9.61	(9.51)
Herring	5.63	(5.47)
Harbour Seals	1.6	(1.59)
Transportbottom Deep	0.5	(0.51)
Deep Reef	0.36	(0.37)
Sprat	0.12	(0.12)
Hardbottom Aphotic	0.02	(0.02)
Mussel Reefs Total	0.01	(0.01)
Artificial Reefs Total	0.0	(0.0)
Angiosperms	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Eel Migration	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Aphotic	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Aphotic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Hardbottom Deep	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

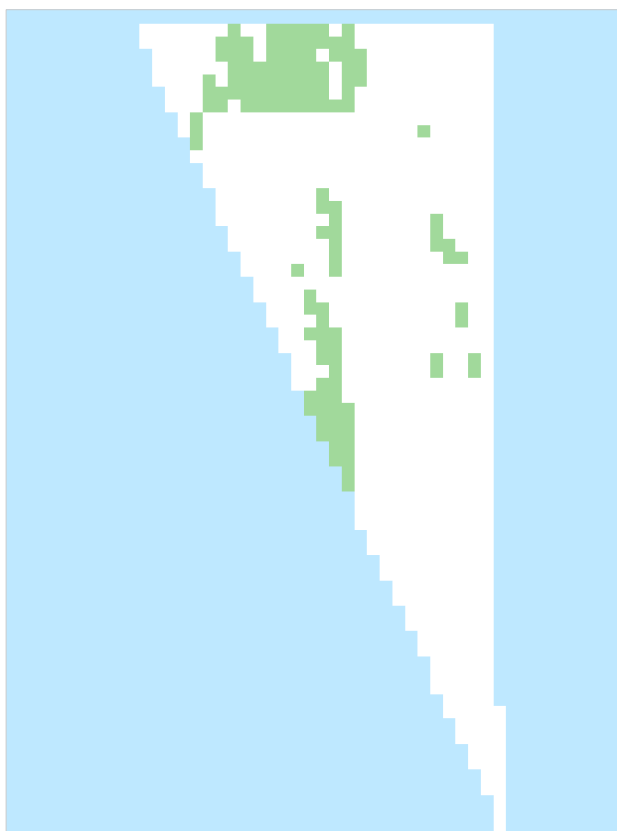
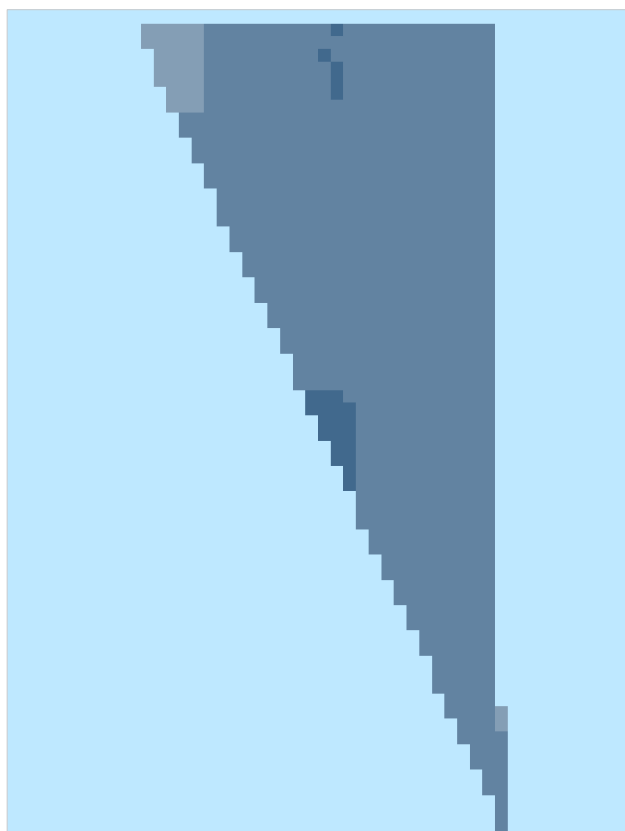
Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	1.54	(1.52)
Anoxia Background	0.0	(0.0)
Nitrogen Background	17.09	(16.93)
Total	18.63	(18.45)
General pollution		
Tox Metal Background	2.02	(2.0)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	11.93	(11.82)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	13.95	(13.82)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.23	(0.98)
Noise 125Hz Shipping	5.88	(3.88)
Total	7.11	(4.86)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	28.78	(30.0)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	14.52	(15.14)
Catch Bottom trawl	17.01	(17.73)
Catch Pelagic trawl	0.0	(0.0)
Total	60.31	(62.87)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V336_FN

Cumulative Effect

	S3	(S1)
Total	25406059.1	(25652250.2)
Mean	28135.2	(28407.8)
Std. Dev.	1224.2	(1262.4)
Min	23453.5	(23770.4)
Max	32353.8	(32982.4)
Area km²	56.79	

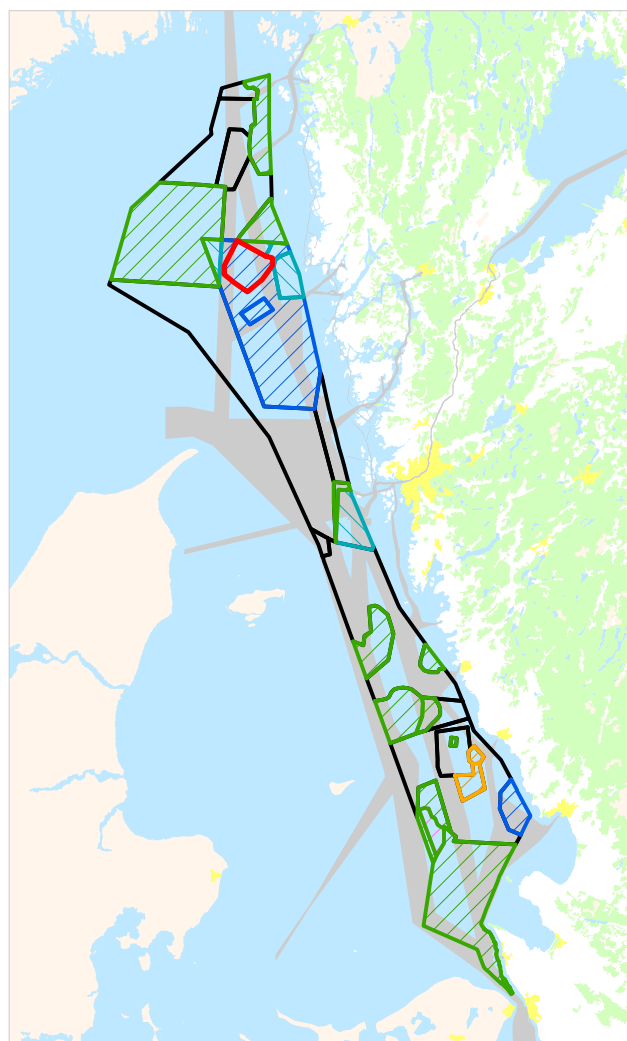
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	37.43	(37.85)
Spawning Fish	18.59	(18.75)
Cod	11.93	(11.76)
Plankton Community	10.48	(10.53)
Porpoise Northsea	9.51	(9.37)
Herring	7.44	(7.14)
Harbour Seals	3.88	(3.86)
Transportbottom Deep	0.55	(0.56)
Sprat	0.18	(0.17)
Softbottom Aphotic	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Eel Migration	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Aphotic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Hardbottom Deep	0.0	(0.0)
Hardbottom Aphotic	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V337_Fn

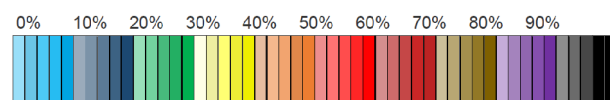
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	70%
S3 Skagerrak	64%
S1 Nuläge	103%

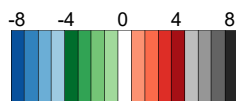
Områden och huvudanvändning



Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)

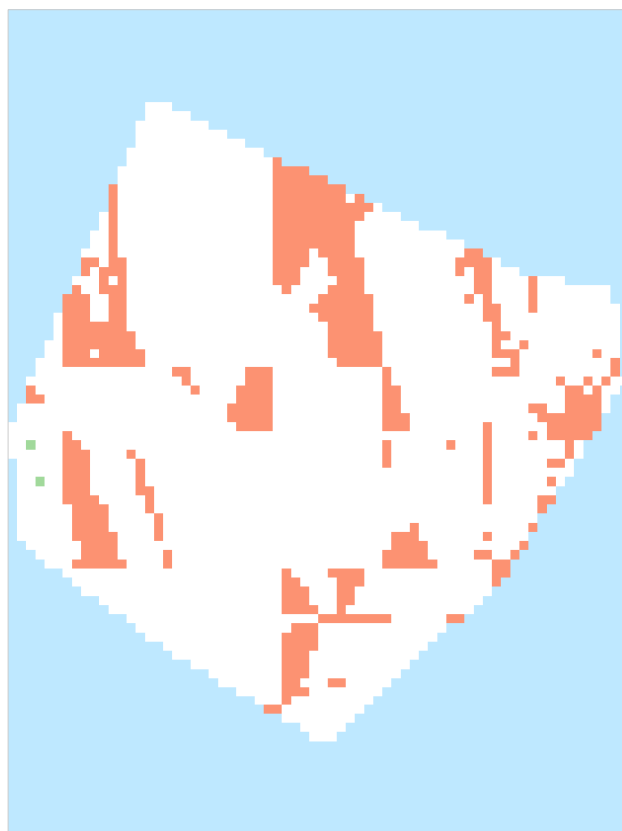
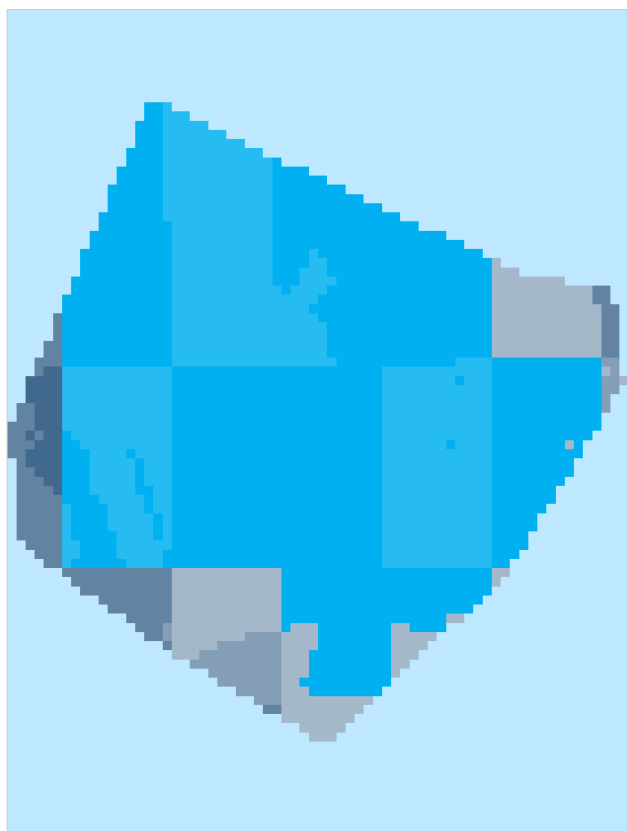


S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.98	(3.06)
Anoxia Background	0.39	(0.4)
Nitrogen Background	31.08	(31.94)
Total	34.45	(35.41)
General pollution		
Tox Metal Background	0.79	(0.81)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	17.61	(18.09)
Tox Munition	0.95	(0.98)
Tox Mine Risk	0.0	(0.0)
Total	19.34	(19.88)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	2.19	(1.8)
Noise 125Hz Shipping	11.85	(8.12)
Total	14.04	(9.92)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	18.27	(19.76)
Catch Gillnet	0.83	(0.9)
Turbidity Bottom trawl	5.96	(6.45)
Catch Bottom trawl	7.11	(7.69)
Catch Pelagic trawl	0.0	(0.0)
Total	32.17	(34.8)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V337_Fn

Cumulative Effect

	S3	(S1)
Total	49418842.2	(48087462.9)
Mean	16889.6	(16434.5)
Std. Dev.	3908.3	(4041.1)
Min	12860.7	(12167.6)
Max	30751.1	(30723.7)
Area km²	182.89	

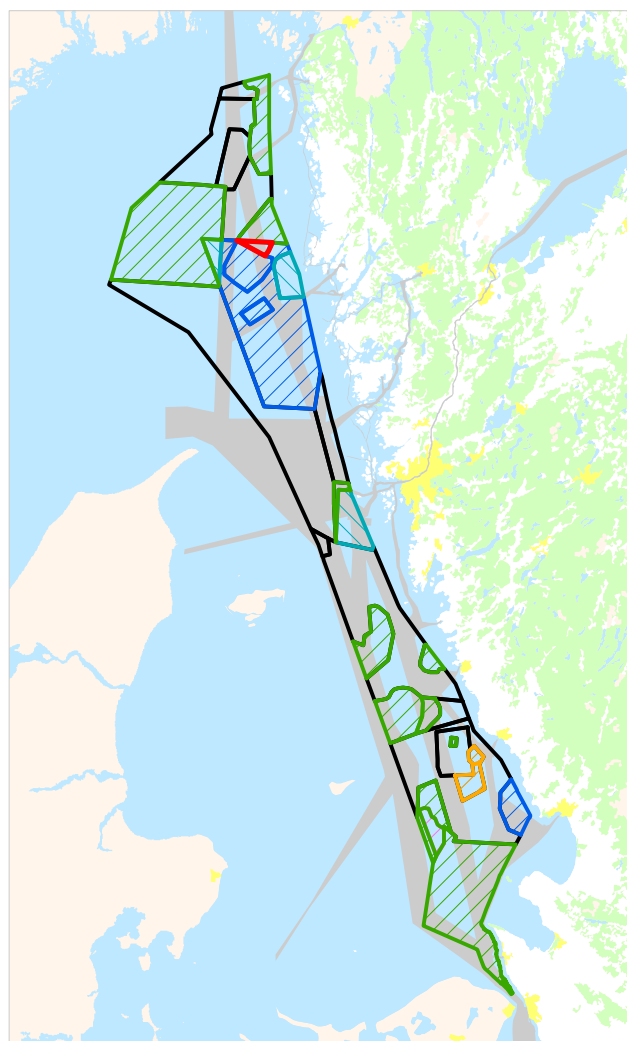
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	32.54	(33.16)
Spawning Fish	17.76	(18.01)
Porpoise Northsea	11.91	(11.71)
Cod	11.34	(10.97)
Plankton Community	10.87	(11.14)
Herring	8.18	(7.67)
Harbour Seals	5.63	(5.56)
Transportbottom Deep	1.15	(1.16)
Hardbottom Aphotic	0.31	(0.32)
Sprat	0.26	(0.24)
Eel Migration	0.03	(0.02)
Artificial Reefs Total	0.03	(0.02)
Rivermouth Fish	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Softbottom Aphotic	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Aphotic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Hardbottom Deep	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V338_FN

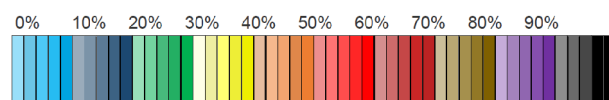
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	68%
S3 Skagerrak	62%
S1 Nuläge	104%

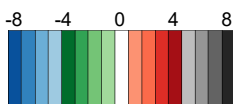
Områden och huvudanvändning



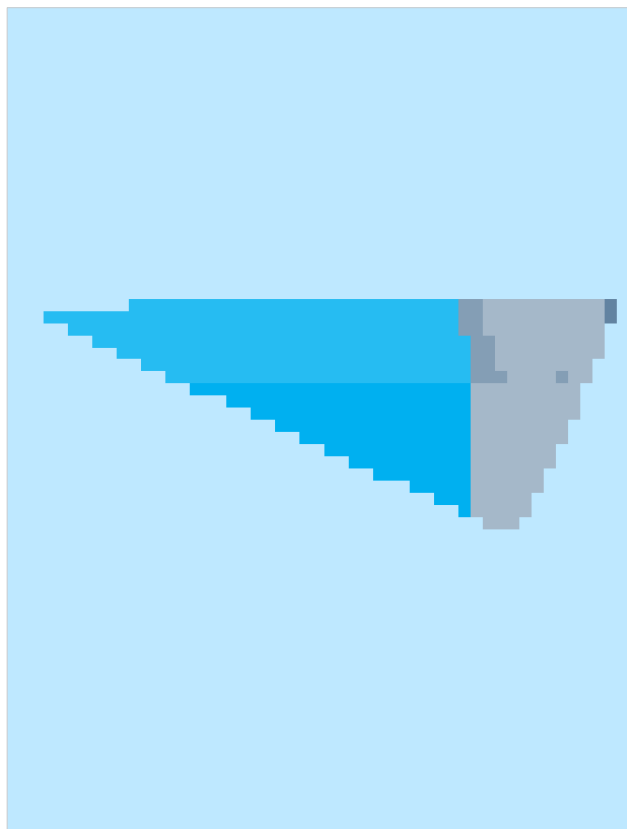
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



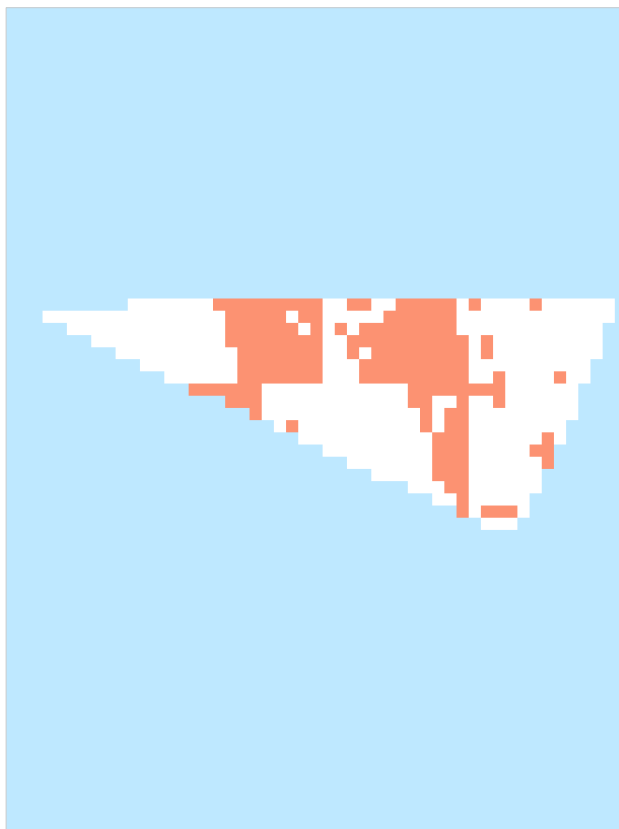
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	3.15	(3.28)
Anoxia Background	0.73	(0.75)
Nitrogen Background	32.57	(33.9)
Total	36.44	(37.93)
General pollution		
Tox Metal Background	0.07	(0.08)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	17.26	(17.96)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	17.33	(18.04)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	2.63	(2.19)
Noise 125Hz Shipping	14.75	(10.23)
Total	17.38	(12.42)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	17.19	(18.83)
Catch Gillnet	0.03	(0.03)
Turbidity Bottom trawl	5.33	(5.83)
Catch Bottom trawl	6.3	(6.91)
Catch Pelagic trawl	0.0	(0.0)
Total	28.85	(31.6)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Musselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V338_FN

Cumulative Effect

	S3	(S1)
Total	8165489.2	(7845078.7)
Mean	16429.6	(15784.9)
Std. Dev.	3534.1	(3704.5)
Min	11628.3	(10668.4)
Max	27379.6	(27636.6)
Area km²	30.64	

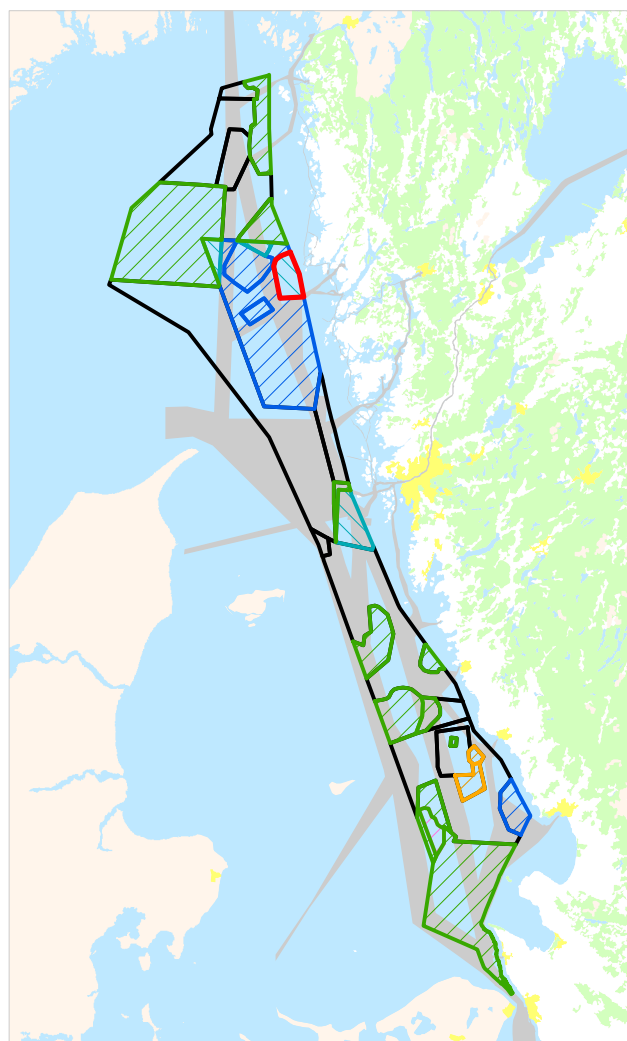
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	29.73	(30.39)
Spawning Fish	18.07	(18.41)
Porpoise Northsea	11.59	(11.36)
Cod	11.28	(10.83)
Plankton Community	10.29	(10.65)
Herring	8.27	(7.67)
Harbour Seals	7.1	(7.0)
Transportbottom Deep	2.36	(2.4)
Hardbottom Aphotic	0.95	(0.99)
Sprat	0.21	(0.19)
Eel Migration	0.14	(0.11)
Seabird Winter Coastal	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Softbottom Aphotic	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Aphotic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Hardbottom Deep	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

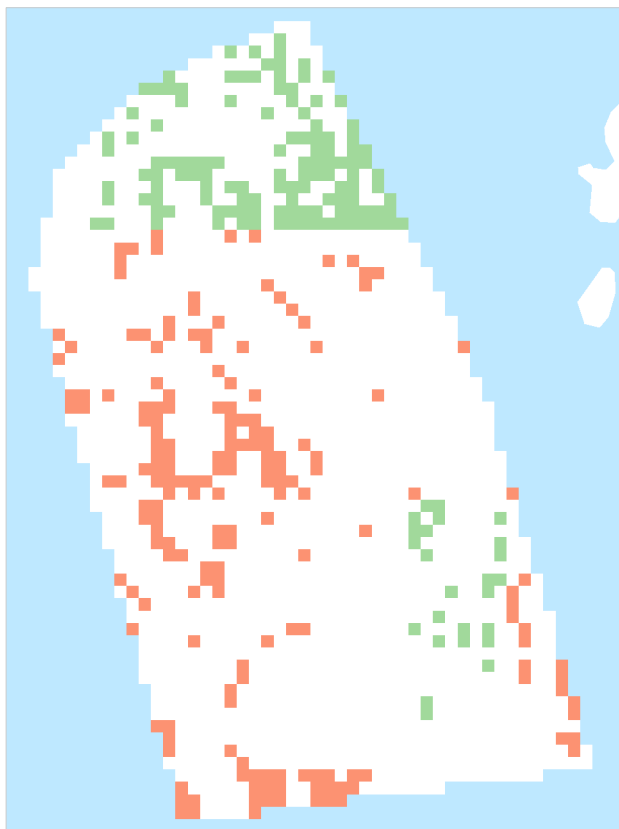
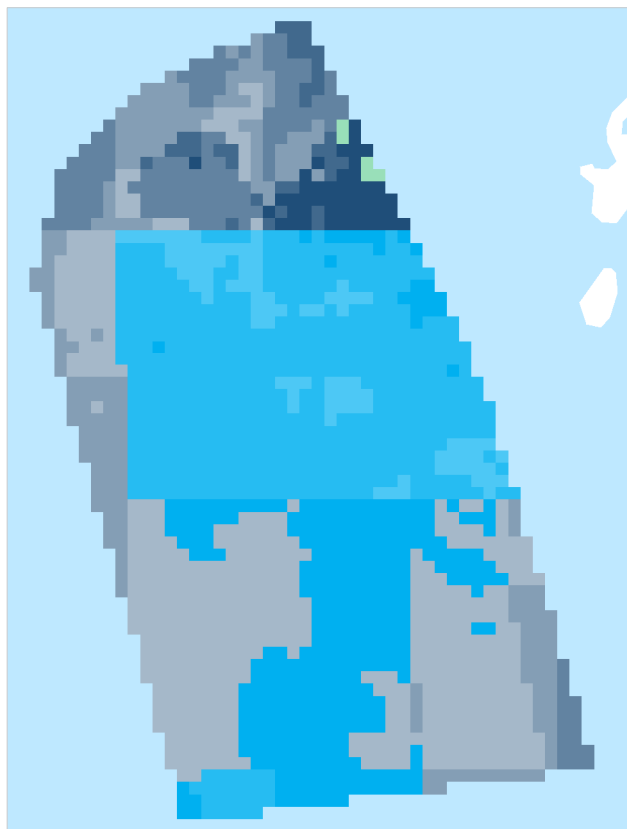
Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



S3 framtidsscenario år 2030

S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	3.01	(3.02)
Anoxia Background	4.04	(4.06)
Nitrogen Background	29.21	(29.35)
Total	36.25	(36.43)
General pollution		
Tox Metal Background	0.26	(0.26)
Oilspill 2knots Wreck	1.42	(1.43)
Tox Synthetic Background	8.76	(8.81)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	10.45	(10.5)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	2.25	(1.81)
Noise 125Hz Shipping	5.2	(3.48)
Total	7.45	(5.29)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.03	(0.03)
Total	0.03	(0.03)
Fisheries		
Abrasion Bottomtrawl	20.55	(21.74)
Catch Gillnet	0.6	(0.63)
Turbidity Bottom trawl	8.53	(9.02)
Catch Bottom trawl	8.98	(9.5)
Catch Pelagic trawl	0.0	(0.0)
Total	38.66	(40.89)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	7.17	(6.86)
Explosion PM	0.0	(0.0)
Total	7.17	(6.86)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V339_FN

Cumulative Effect

	S3	(S1)
Total	35852047.9	(35676209.2)
Mean	18889.4	(18796.7)
Std. Dev.	6168.2	(6474.6)
Min	8454.8	(8208.5)
Max	39650.9	(40582.7)
Area km²	118.58	

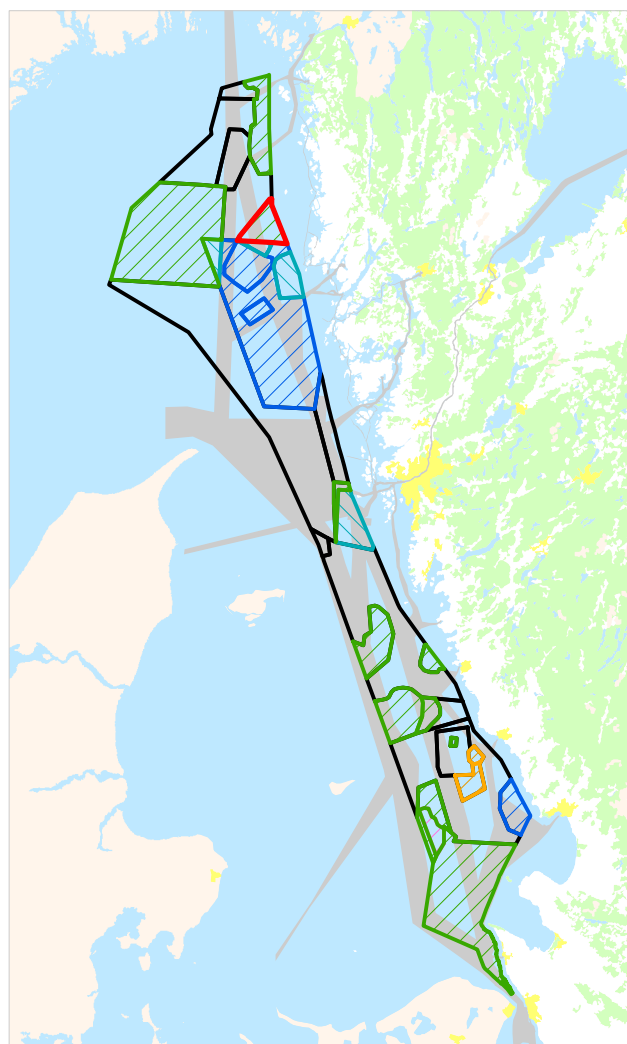
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Spawning Fish	15.55	(15.72)
Softbottom Deep	13.58	(13.76)
Porpoise Northsea	10.84	(10.73)
Cod	10.66	(10.55)
Plankton Community	8.93	(8.98)
Herring	8.3	(8.02)
Harbour Seals	6.73	(6.72)
Sprat	6.56	(6.22)
Softbottom Aphotic	5.89	(6.02)
Deep Reef	3.51	(3.64)
Hardbottom Deep	2.96	(3.06)
Transportbottom Aphotic	2.76	(2.84)
Transportbottom Deep	1.38	(1.39)
Hardbottom Photic	0.8	(0.82)
Hardbottom Aphotic	0.59	(0.6)
Eel Migration	0.38	(0.35)
Softbottom Photic	0.3	(0.31)
Transportbottom Photic	0.2	(0.2)
Seabird Winter Coastal	0.03	(0.03)
Birds Coastal	0.03	(0.03)
Mussel Reefs Total	0.02	(0.02)
Artificial Reefs Total	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V340_N

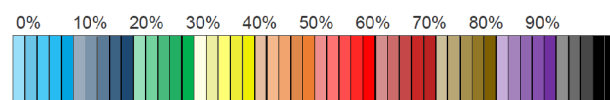
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	75%
S3 Skagerrak	68%
S1 Nuläge	101%

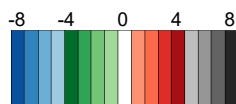
Områden och huvudanvändning



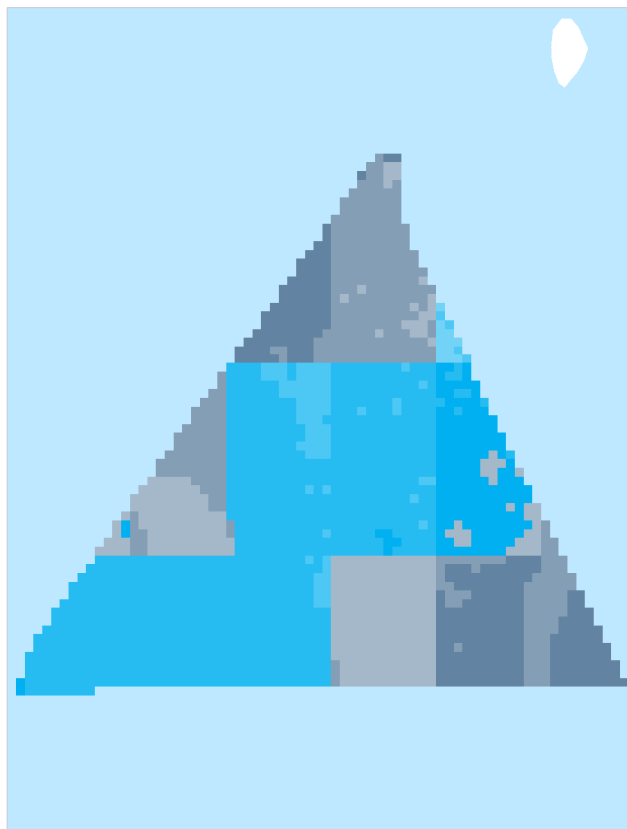
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



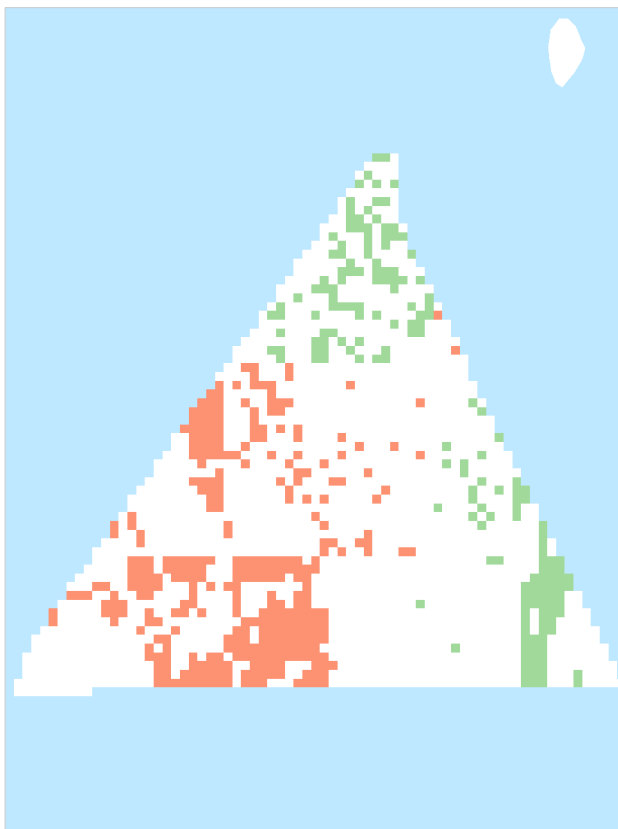
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.66	(2.69)
Anoxia Background	0.98	(0.99)
Nitrogen Background	28.85	(29.12)
Total	32.5	(32.8)
General pollution		
Tox Metal Background	0.43	(0.43)
Oilspill 2knots Wreck	0.15	(0.15)
Tox Synthetic Background	11.51	(11.61)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	12.08	(12.19)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	2.01	(1.62)
Noise 125Hz Shipping	8.6	(5.79)
Total	10.61	(7.41)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	24.16	(25.67)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	9.61	(10.2)
Catch Bottom trawl	11.04	(11.73)
Catch Pelagic trawl	0.0	(0.0)
Total	44.81	(47.6)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V340_N

Cumulative Effect

	S3	(S1)
Total	39012162.3	(38656969.9)
Mean	18002.8	(17838.9)
Std. Dev.	6098.1	(6558.2)
Min	5259.7	(5112.1)
Max	29585.8	(30421.0)
Area km²	135.48	

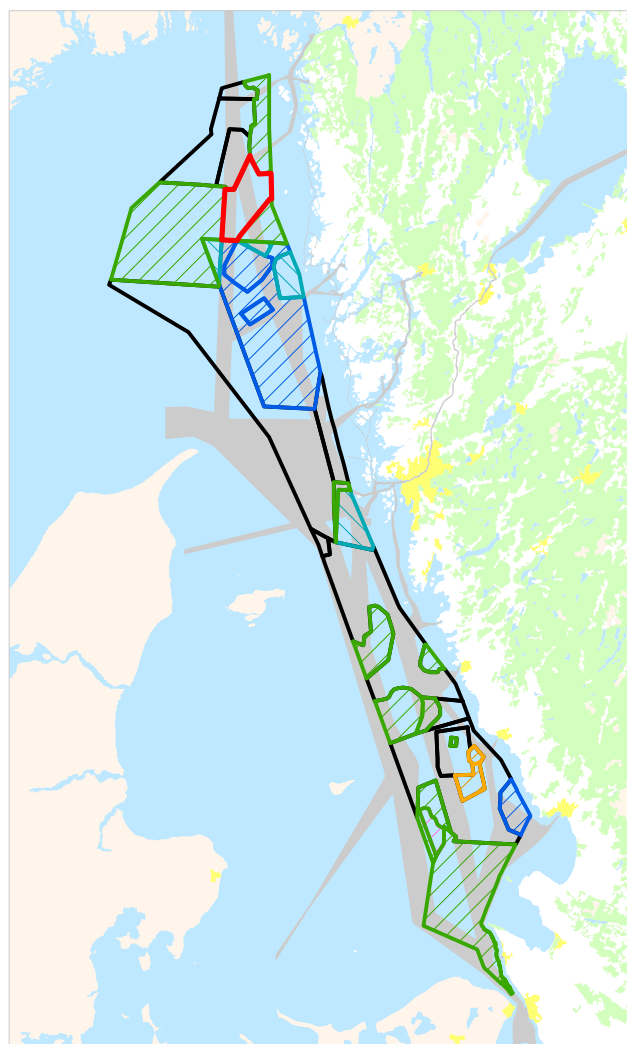
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	21.3	(21.55)
Spawning Fish	19.17	(19.39)
Cod	11.11	(10.86)
Porpoise Northsea	10.47	(10.3)
Plankton Community	9.52	(9.63)
Harbour Seals	7.81	(7.77)
Herring	6.22	(5.81)
Softbottom Aphotic	4.21	(4.36)
Transportbottom Deep	2.88	(2.89)
Hardbottom Aphotic	2.73	(2.8)
Hardbottom Deep	1.93	(2.0)
Sprat	1.59	(1.57)
Transportbottom Aphotic	0.8	(0.83)
Eel Migration	0.2	(0.18)
Hardbottom Photic	0.04	(0.05)
Transportbottom Photic	0.01	(0.01)
Softbottom Photic	0.01	(0.01)
Artificial Reefs Total	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V341_G

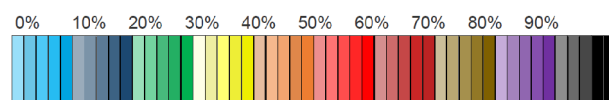
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	101%
S3 Skagerrak	92%
S1 Nuläge	100%

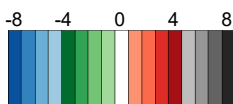
Områden och huvudanvändning

N	EN	E UTR	G
FN	E	F	Sjöfart
V341_G			

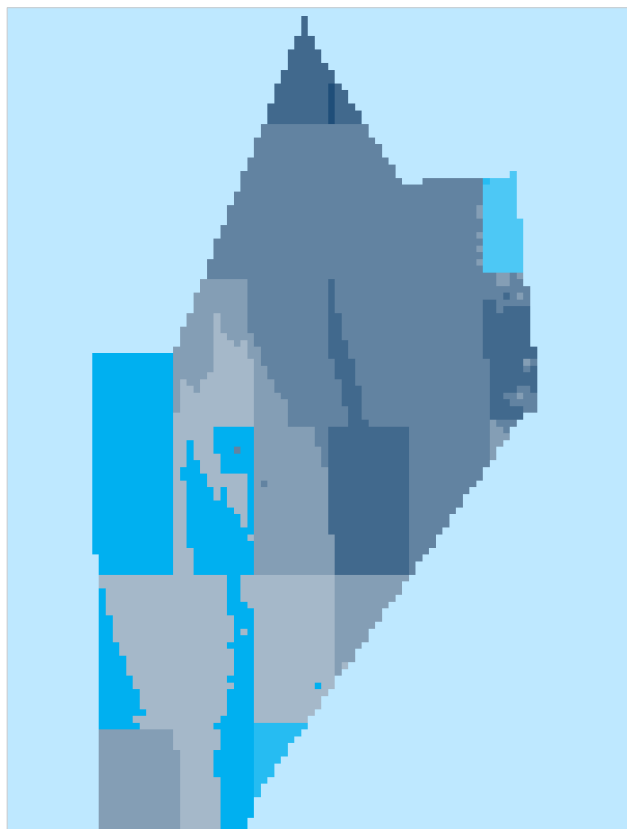
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



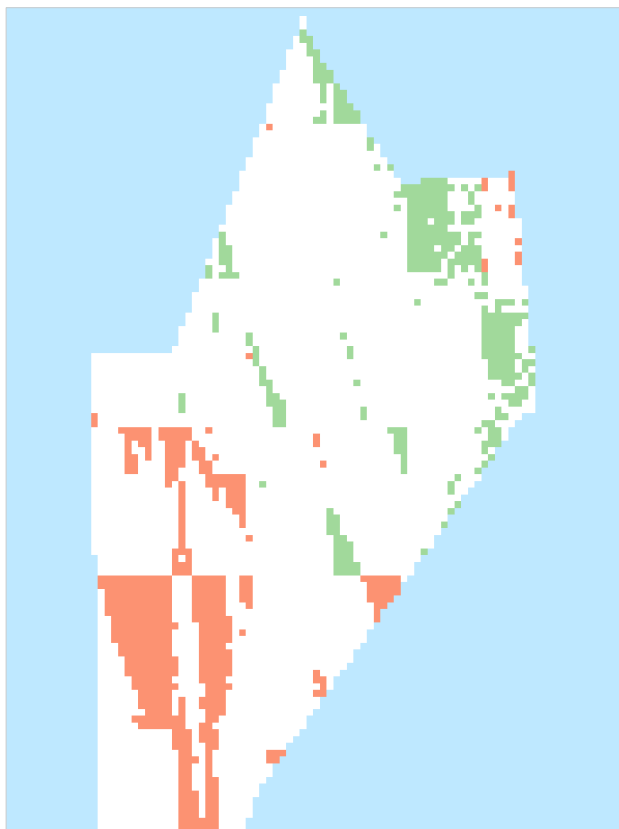
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.18	(2.18)
Anoxia Background	0.13	(0.13)
Nitrogen Background	20.83	(20.78)
Total	23.14	(23.09)
General pollution		
Tox Metal Background	0.0	(0.0)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	12.6	(12.57)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	12.6	(12.57)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.34	(1.07)
Noise 125Hz Shipping	7.34	(4.88)
Total	8.68	(5.95)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.01	(0.01)
Total	0.01	(0.01)
Fisheries		
Abrasion Bottomtrawl	29.33	(30.81)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	12.08	(12.69)
Catch Bottom trawl	14.16	(14.87)
Catch Pelagic trawl	0.0	(0.0)
Total	55.57	(58.37)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V341_G

Cumulative Effect

	S3	(S1)
Total	113511753.6	(113749964.2)
Mean	24254.6	(24305.5)
Std. Dev.	5805.3	(6135.3)
Min	7038.7	(6756.2)
Max	34541.0	(35325.9)
Area km²	292.41	

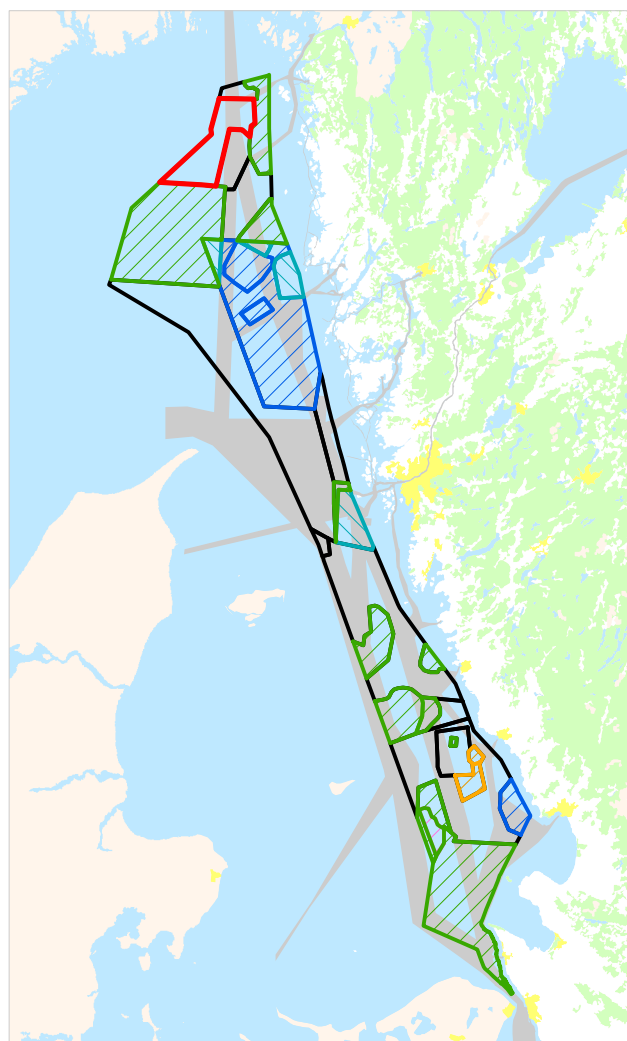
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	36.74	(37.15)
Spawning Fish	19.83	(19.99)
Cod	11.99	(11.72)
Porpoise Northsea	10.2	(10.0)
Plankton Community	9.3	(9.37)
Harbour Seals	8.35	(8.29)
Herring	1.77	(1.63)
Transportbottom Deep	0.52	(0.52)
Softbottom Aphotic	0.38	(0.39)
Hardbottom Deep	0.36	(0.37)
Hardbottom Aphotic	0.28	(0.29)
Transportbottom Aphotic	0.13	(0.13)
Eel Migration	0.08	(0.07)
Sprat	0.04	(0.03)
Birds Coastal	0.02	(0.02)
Hardbottom Photic	0.01	(0.01)
Artificial Reefs Total	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Deep Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V342_G

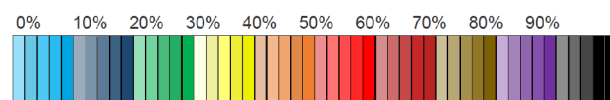
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	104%
S3 Skagerrak	95%
S1 Nuläge	99%

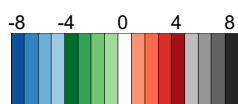
Områden och huvudanvändning



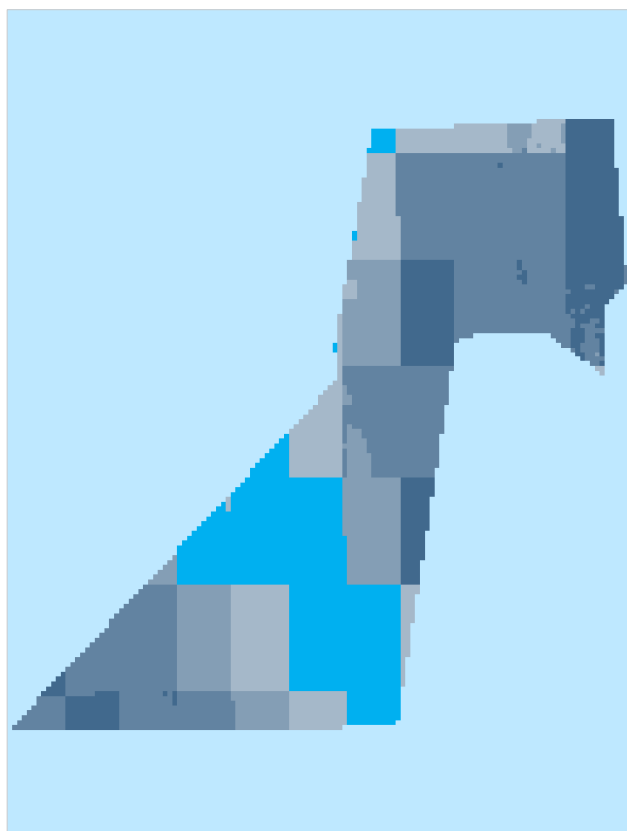
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



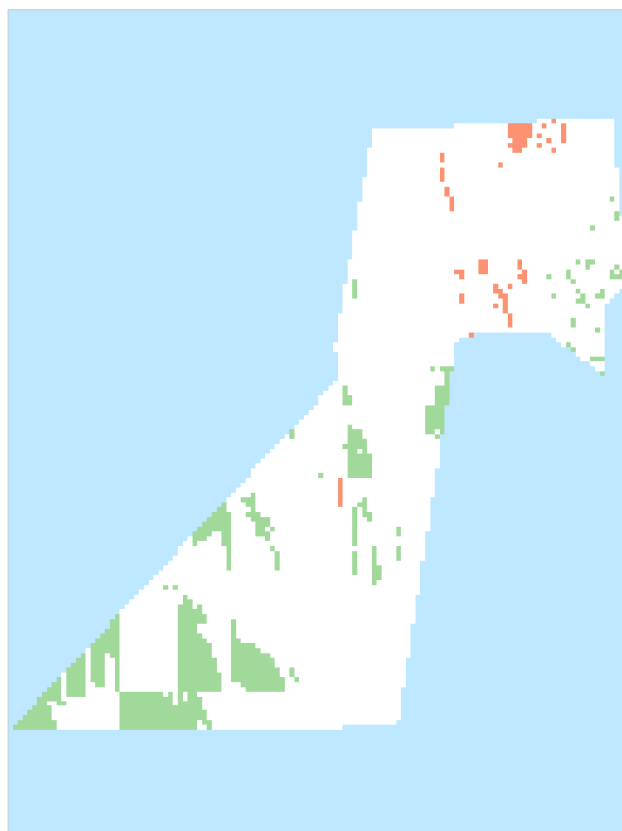
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	1.96	(1.94)
Anoxia Background	0.14	(0.13)
Nitrogen Background	19.08	(18.93)
Total	21.17	(21.01)
General pollution		
Tox Metal Background	1.53	(1.52)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	14.36	(14.25)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	15.89	(15.77)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	0.96	(0.76)
Noise 125Hz Shipping	5.9	(3.9)
Total	6.86	(4.66)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	29.4	(30.7)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	12.11	(12.64)
Catch Bottom trawl	14.57	(15.22)
Catch Pelagic trawl	0.0	(0.0)
Total	56.07	(58.56)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V342_G

Cumulative Effect

	S3	(S1)
Total	158877312.0	(160136033.6)
Mean	25091.2	(25290.0)
Std. Dev.	5345.4	(5502.9)
Min	15173.0	(15097.9)
Max	33941.5	(34572.1)
Area km²	394.88	

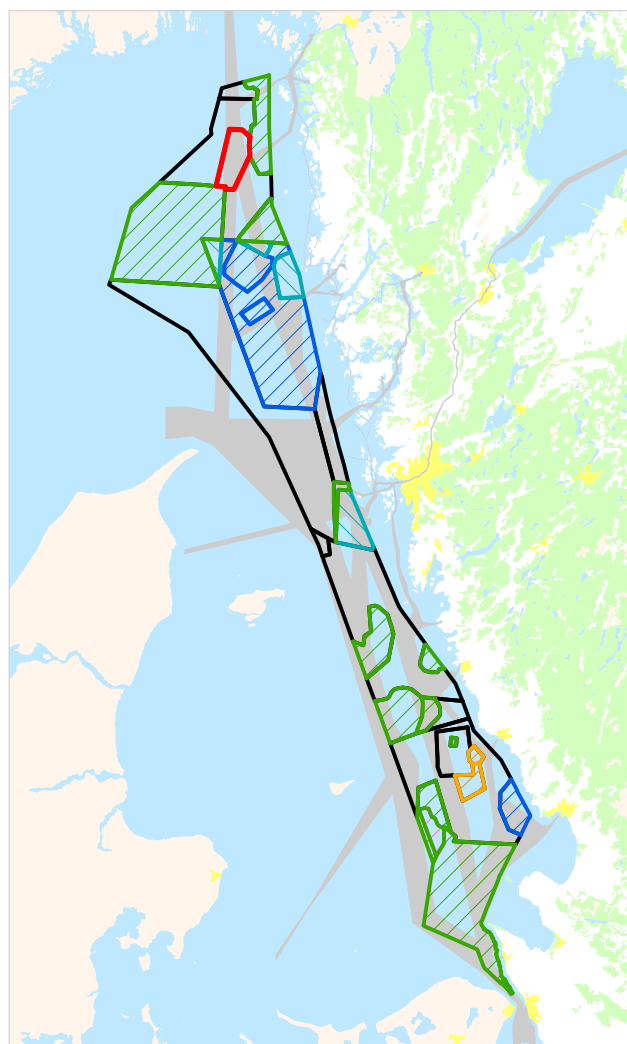
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	39.23	(39.58)
Spawning Fish	20.32	(20.44)
Cod	12.32	(12.08)
Porpoise Northsea	10.25	(10.06)
Plankton Community	9.99	(10.04)
Harbour Seals	6.66	(6.57)
Transportbottom Deep	0.62	(0.63)
Hardbottom Aphotic	0.44	(0.45)
Herring	0.12	(0.11)
Eel Migration	0.03	(0.02)
Hardbottom Deep	0.01	(0.01)
Transportbottom Aphotic	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Softbottom Aphotic	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Angiosperms	0.0	(0.0)
Sprat	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Photoc	0.0	(0.0)
Transportbottom Photoc	0.0	(0.0)
Hardbottom Photoc	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V343_Gn

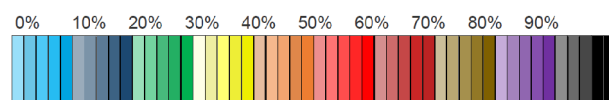
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	110%
S3 Skagerrak	100%
S1 Nuläge	100%

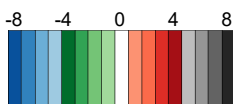
Områden och huvudanvändning



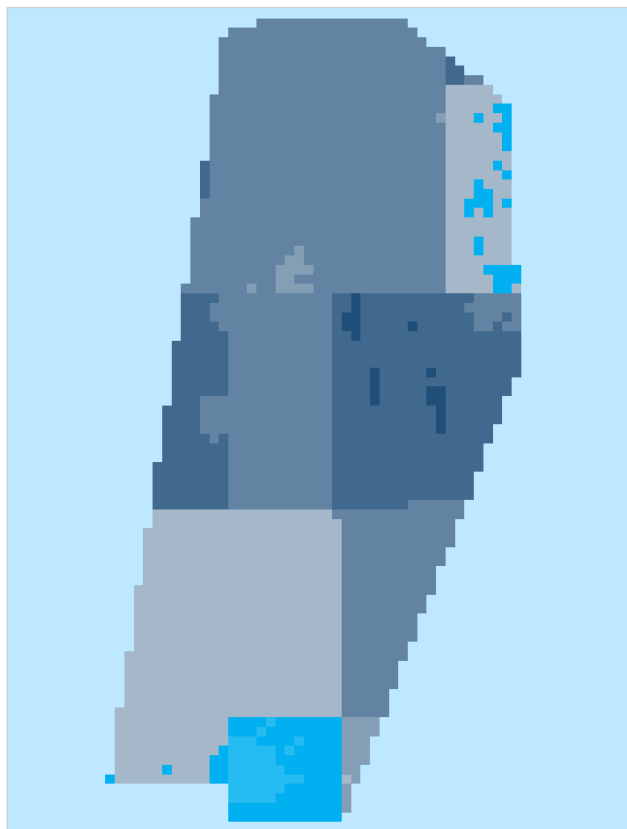
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



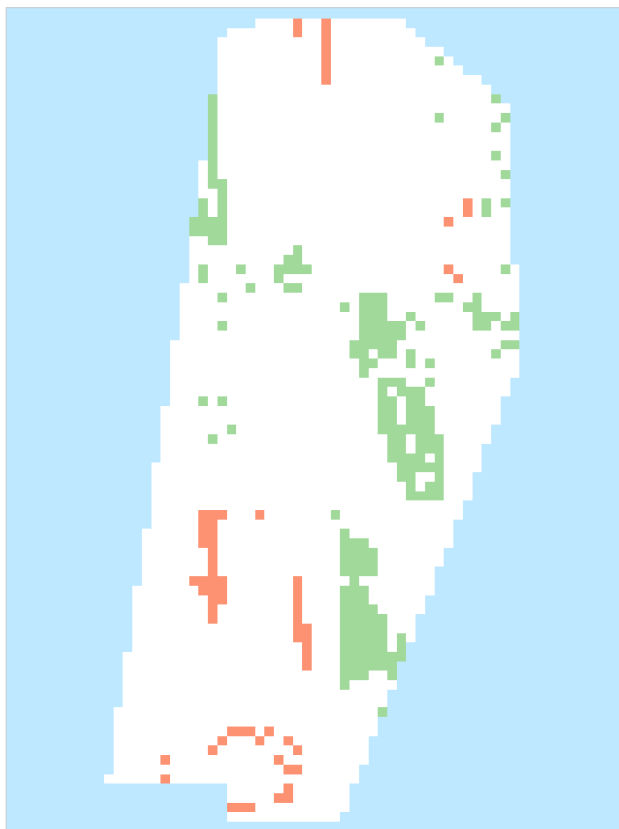
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	1.96	(1.95)
Anoxia Background	0.05	(0.05)
Nitrogen Background	18.5	(18.47)
Total	20.51	(20.47)
General pollution		
Tox Metal Background	0.21	(0.21)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	12.27	(12.24)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	12.47	(12.45)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.2	(0.96)
Noise 125Hz Shipping	7.85	(5.22)
Total	9.05	(6.18)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	30.25	(31.78)
Catch Gillnet	0.0	(0.0)
Turbidity Bottom trawl	12.59	(13.23)
Catch Bottom trawl	15.12	(15.89)
Catch Pelagic trawl	0.0	(0.0)
Total	57.96	(60.9)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V343_Gn

Cumulative Effect

	S3	(S1)
Total	69266867.9	(69400691.0)
Mean	26488.3	(26539.5)
Std. Dev.	5501.2	(5691.5)
Min	13569.6	(13064.2)
Max	34703.6	(34822.8)
Area km²	163.43	

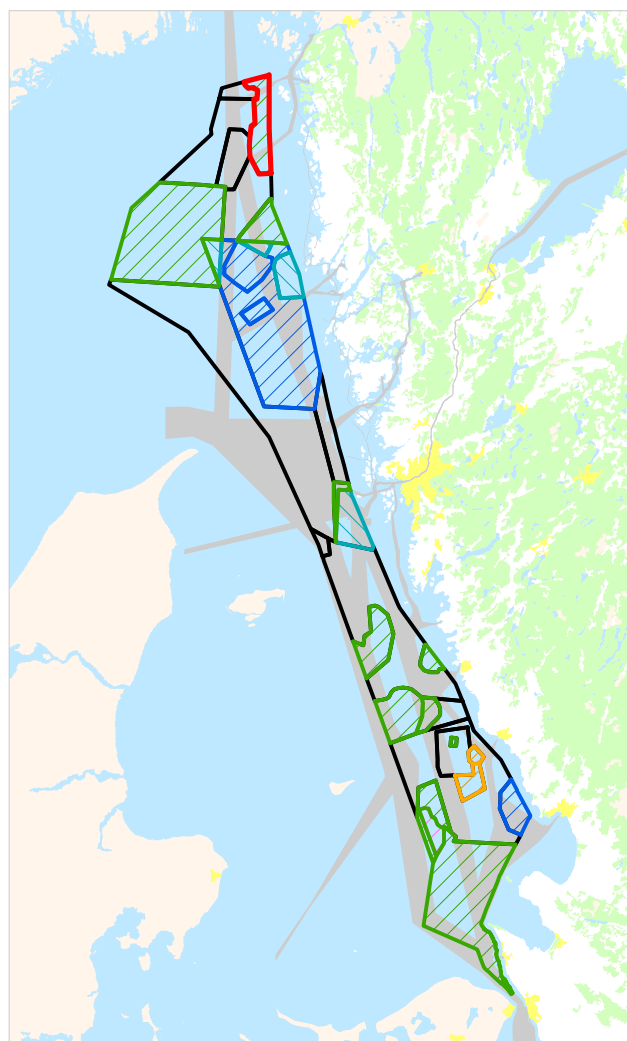
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	34.64	(35.0)
Spawning Fish	20.12	(20.28)
Cod	12.36	(12.05)
Porpoise Northsea	11.23	(10.99)
Plankton Community	8.96	(9.05)
Harbour Seals	8.63	(8.54)
Hardbottom Aphotic	2.15	(2.18)
Transportbottom Deep	1.55	(1.57)
Hardbottom Deep	0.15	(0.15)
Herring	0.12	(0.11)
Transportbottom Aphotic	0.04	(0.04)
Softbottom Aphotic	0.03	(0.03)
Eel Migration	0.02	(0.01)
Rivermouth Fish	0.0	(0.0)
Angiosperms	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Sprat	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V344_N

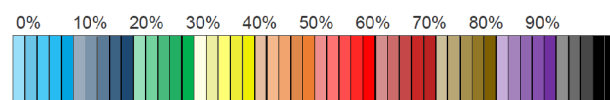
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	92%
S3 Skagerrak	84%
S1 Nuläge	101%

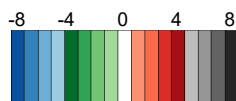
Områden och huvudanvändning



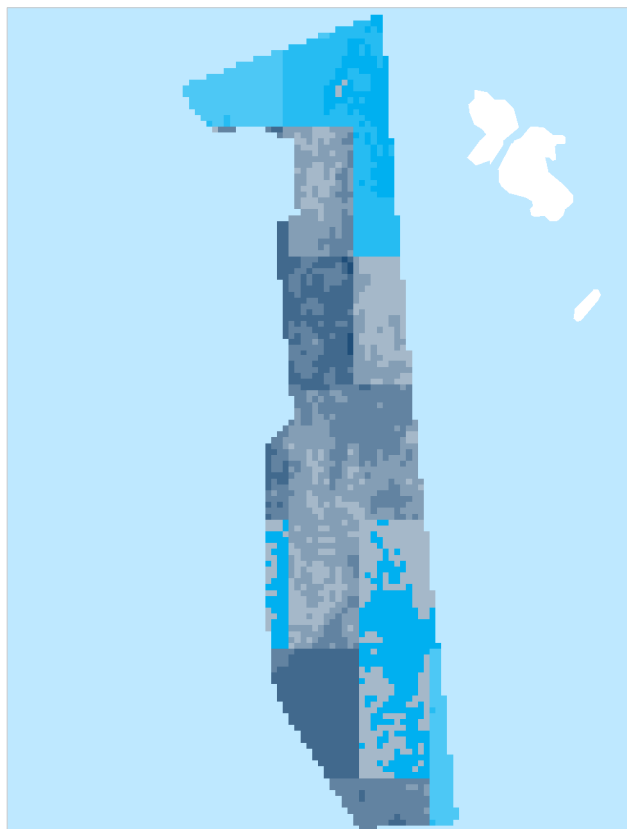
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



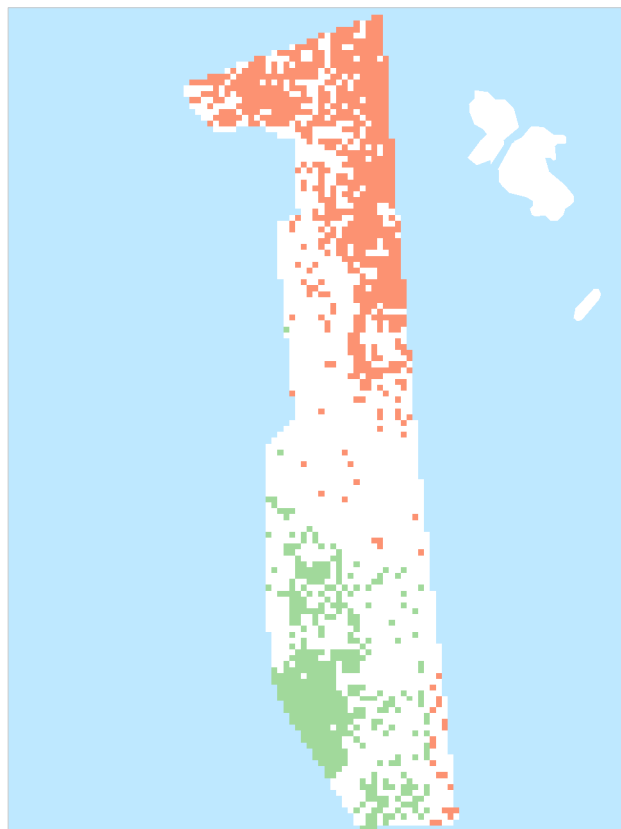
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.12	(2.14)
Anoxia Background	1.92	(1.94)
Nitrogen Background	21.5	(21.71)
Total	25.55	(25.8)
General pollution		
Tox Metal Background	0.06	(0.06)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	7.5	(7.57)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	7.56	(7.63)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	0.91	(0.74)
Noise 125Hz Shipping	10.88	(7.33)
Total	11.79	(8.06)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	1.05	(1.06)
Total	1.05	(1.06)
Fisheries		
Abrasion Bottomtrawl	28.48	(30.27)
Catch Gillnet	0.35	(0.37)
Turbidity Bottom trawl	12.0	(12.76)
Catch Bottom trawl	13.22	(14.05)
Catch Pelagic trawl	0.0	(0.0)
Total	54.05	(57.44)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Musselselfarming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V344_N

Cumulative Effect

	S3	(S1)
Total	71804412.1	(71111005.0)
Mean	22148.2	(21934.3)
Std. Dev.	7151.0	(7606.3)
Min	6961.7	(6164.1)
Max	34664.2	(35281.2)
Area km²	202.84	

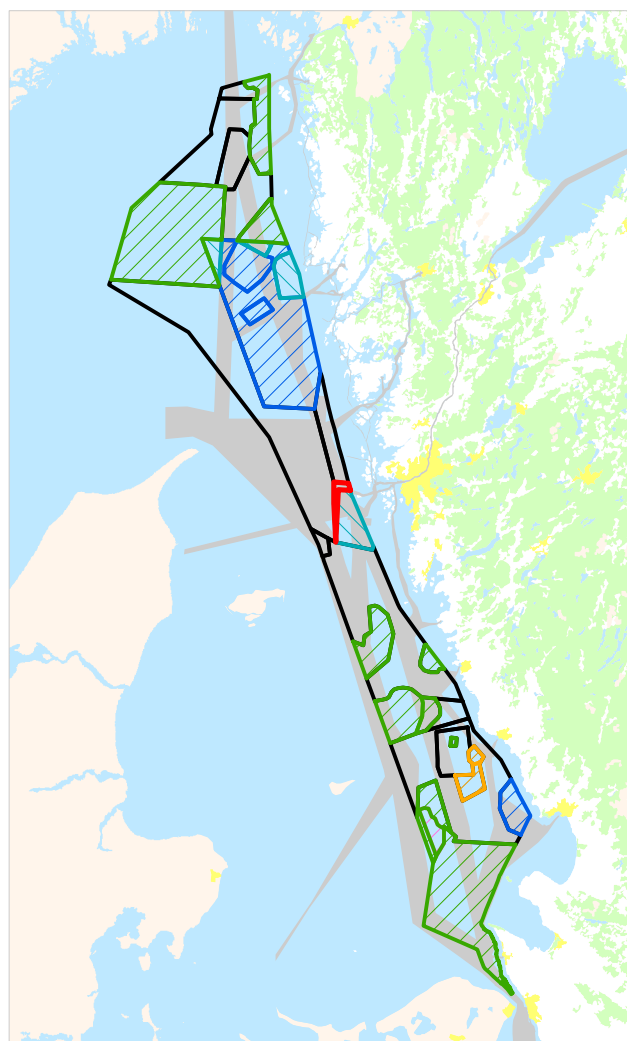
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Spawning Fish	18.75	(19.03)
Softbottom Deep	18.04	(18.5)
Cod	12.94	(12.59)
Porpoise Northsea	9.69	(9.54)
Harbour Seals	9.52	(9.44)
Plankton Community	8.59	(8.79)
Hardbottom Deep	6.45	(6.52)
Hardbottom Aphotic	4.56	(4.67)
Birds Coastal	3.14	(2.75)
Softbottom Aphotic	2.33	(2.34)
Transportbottom Aphotic	2.05	(2.04)
Transportbottom Deep	1.55	(1.58)
Hardbottom Photic	1.49	(1.41)
Eel Migration	0.37	(0.31)
Transportbottom Photic	0.28	(0.25)
Herring	0.12	(0.12)
Softbottom Photic	0.12	(0.11)
Mussel Reefs Total	0.0	(0.0)
Deep Reef	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Sprat	0.0	(0.0)
Angiosperms	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB



V345_N

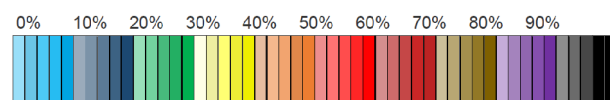
Miljöpåverkan i området jämfört med medelvärde för:

S3 Västerhavet	123%
S3 Skagerrak	113%
S1 Nuläge	108%

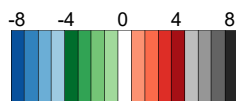
Områden och huvudanvändning



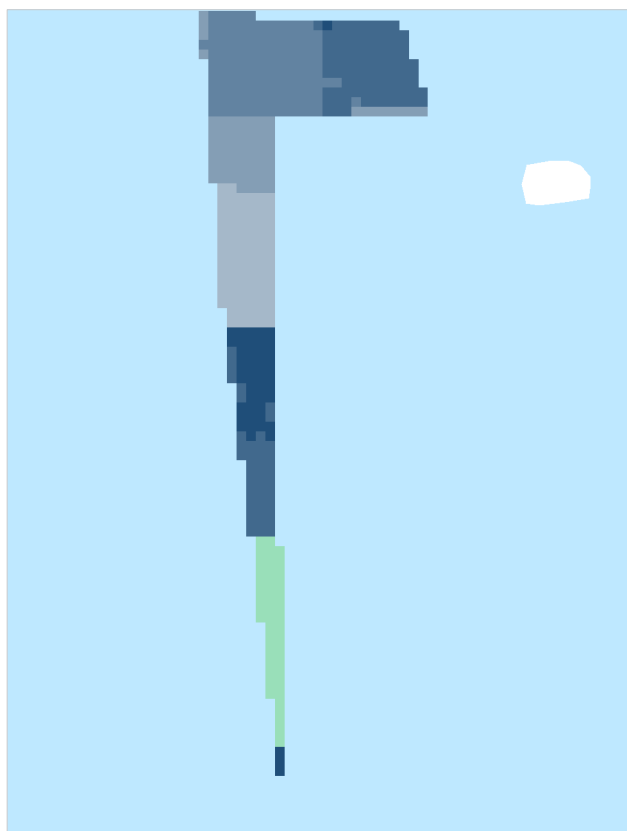
Procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden (S3)



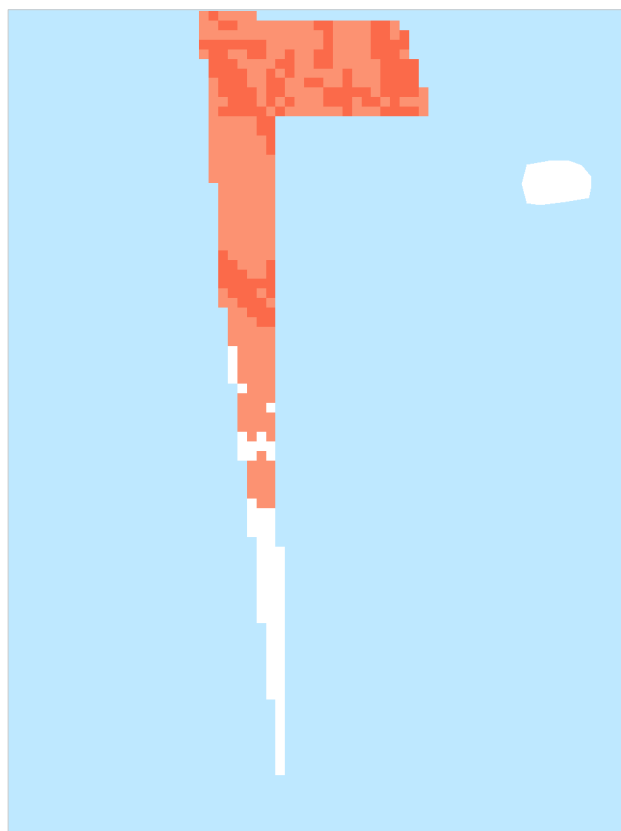
S3 nuläge med framtidsscenario - S1 nuläge. S3, S1 uttryckt som procentuell andel av den högsta miljöpåverkan i Västerhavet, inklusive kustområden.



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.28	(2.47)
Anoxia Background	3.0	(3.25)
Nitrogen Background	18.6	(20.16)
Total	23.87	(25.87)
General pollution		
Tox Metal Background	0.01	(0.01)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	9.01	(9.76)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.13	(0.14)
Total	9.15	(9.92)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.28	(0.2)
Oilspill 2knots Shipping	3.6	(3.12)
Noise 125Hz Shipping	25.4	(18.35)
Total	29.28	(21.68)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	15.79	(18.02)
Catch Gillnet	0.52	(0.6)
Turbidity Bottom trawl	8.0	(9.13)
Catch Bottom trawl	8.68	(9.91)
Catch Pelagic trawl	0.41	(0.47)
Total	33.42	(38.12)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	4.27	(4.41)
Explosion PM	0.0	(0.0)
Total	4.27	(4.41)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V345_N

Cumulative Effect

	S3	(S1)
Total	14888262.7	(13738225.0)
Mean	29717.1	(27421.6)
Std. Dev.	5748.8	(6336.0)
Min	19262.4	(16658.2)
Max	41777.4	(41308.9)
Area km²	31.02	

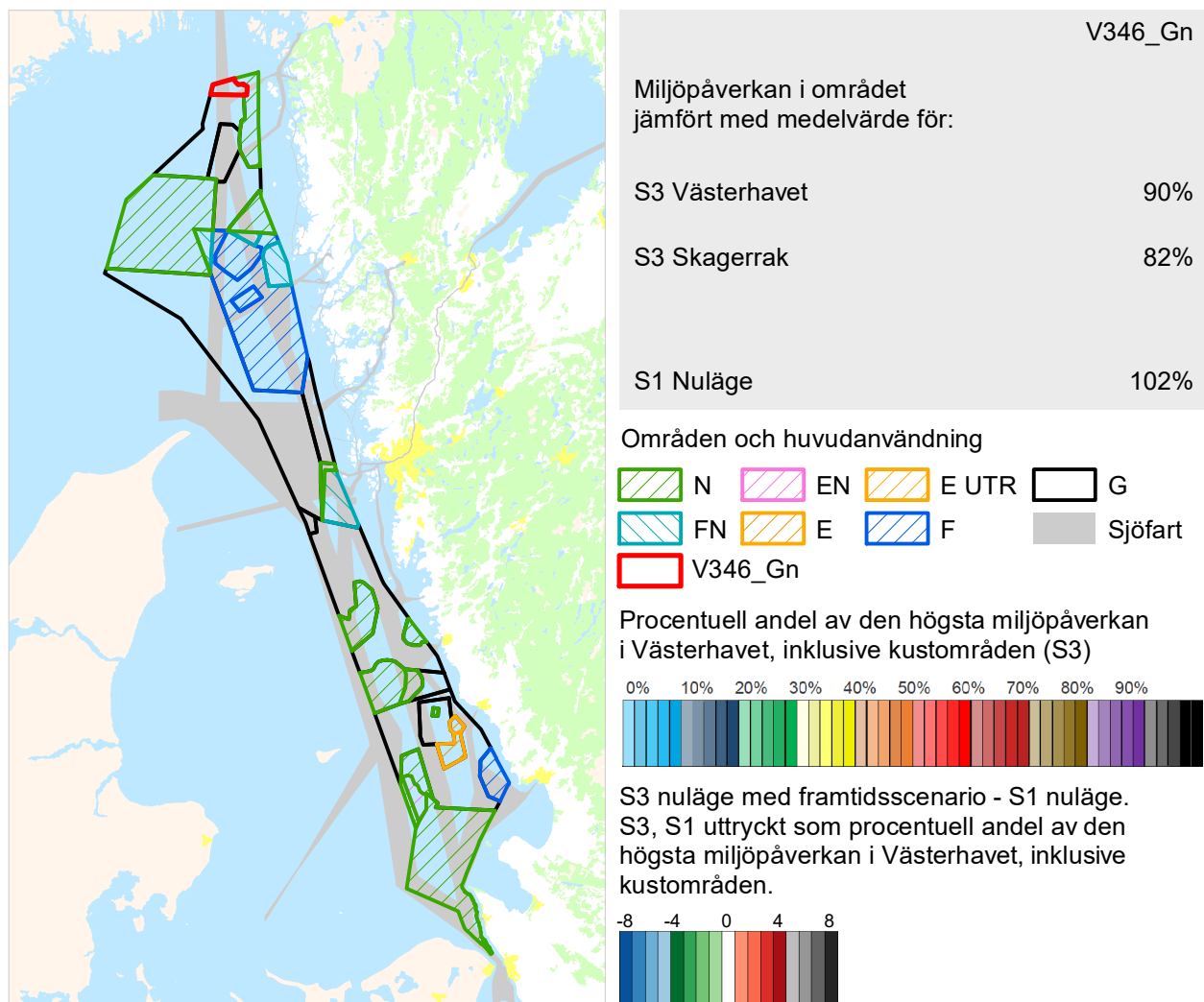
Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	16.96	(17.62)
Cod	14.01	(13.72)
Porpoise Northsea	13.48	(13.34)
Herring	12.49	(11.75)
Sprat	10.24	(9.31)
Softbottom Aphotic	9.42	(10.1)
Harbour Seals	7.06	(7.06)
Plankton Community	6.92	(7.48)
Spawning Fish	6.63	(6.95)
Eel Migration	1.07	(0.9)
Transportbottom Aphotic	0.5	(0.53)
Hardbottom Aphotic	0.45	(0.46)
Hardbottom Deep	0.43	(0.43)
Transportbottom Deep	0.31	(0.32)
Artificial Reefs Total	0.03	(0.02)
Birds Coastal	0.01	(0.01)
Angiosperms	0.0	(0.0)
Rivermouth Fish	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

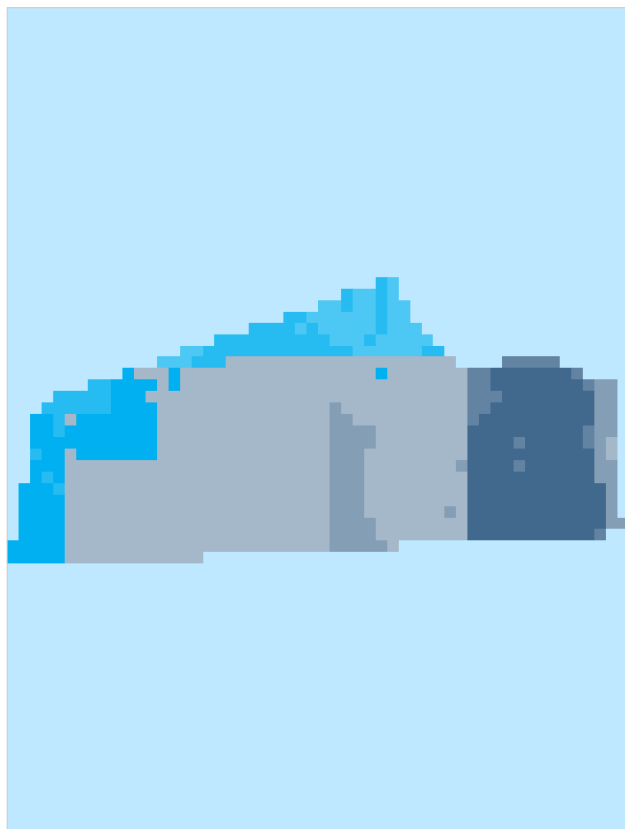
Calculated with SyM

Date: 2018-03-22

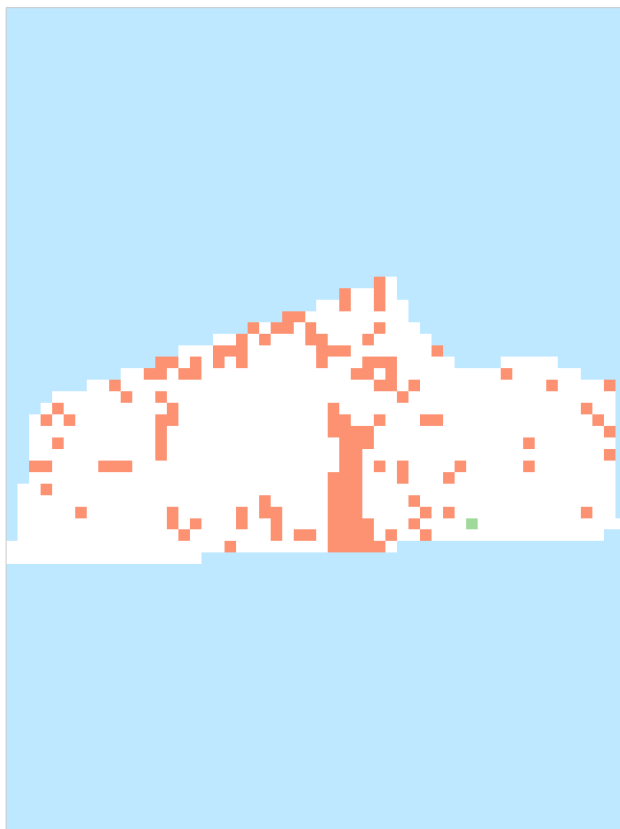
Medins Havs och Vattenkonsulter AB



S3 framtidsscenario år 2030



S3 nuläge med framtidsscenario - S1 nuläge.



Impacts Per Pressure

Name	% of Total S3	(S1)
Eutrophication		
Phosphorous Background	2.08	(2.12)
Anoxia Background	0.78	(0.8)
Nitrogen Background	22.61	(23.11)
Total	25.46	(26.03)
General pollution		
Tox Metal Background	2.48	(2.53)
Oilspill 2knots Wreck	0.0	(0.0)
Tox Synthetic Background	14.97	(15.3)
Tox Munition	0.0	(0.0)
Tox Mine Risk	0.0	(0.0)
Total	17.45	(17.84)
Shipping		
Turbidity Shipping	0.0	(0.0)
Noise 2000Hz Shipping	0.0	(0.0)
Oilspill 2knots Shipping	1.44	(1.18)
Noise 125Hz Shipping	12.47	(8.5)
Total	13.91	(9.68)
Coastal development		
Tox Synthetic Treatmentplants	0.0	(0.0)
Habitatloss Dumping	0.0	(0.0)
Infrastructure	0.0	(0.0)
Habitatloss Coastal Exploitation	0.0	(0.0)
Total	0.0	(0.0)
Recreational activities		
Boating Pollution	0.0	(0.0)
Boating Noise	0.0	(0.0)
Birdhunt	0.0	(0.0)
Total	0.0	(0.0)
Fisheries		
Abrasion Bottomtrawl	24.25	(26.1)
Catch Gillnet	0.06	(0.07)
Turbidity Bottom trawl	9.07	(9.76)
Catch Bottom trawl	9.79	(10.53)
Catch Pelagic trawl	0.0	(0.0)
Total	43.17	(46.46)
Industry		
Tox Synthetic Industry	0.0	(0.0)
Tox Synthetic Harbor	0.0	(0.0)
Total	0.0	(0.0)
Mineral mining		
Turbidity Mining	0.0	(0.0)
Habitat Loss Mining	0.0	(0.0)
Total	0.0	(0.0)
Defence		
Tox Metal Military	0.0	(0.0)
Explosion SPL	0.0	(0.0)
Explosion PM	0.0	(0.0)
Total	0.0	(0.0)
Aquaculture		
Habitatloss Mussel farming	0.0	(0.0)
Total	0.0	(0.0)
Energy		
Avoidance Windpower	0.0	(0.0)
Noise 125Hz Windpower	0.0	(0.0)
EMF	0.0	(0.0)
Total	0.0	(0.0)

V346_Gn

Cumulative Effect

	S3	(S1)
Total	19776683.3	(19347164.6)
Mean	21590.3	(21121.4)
Std. Dev.	6019.8	(6233.7)
Min	8520.8	(7698.9)
Max	33532.3	(33423.9)
Area km²	57.49	

Impacts Per Ecocomponent

Name	% of Total S3	(S1)
Softbottom Deep	31.7	(32.17)
Spawning Fish	20.11	(20.31)
Cod	13.25	(12.7)
Plankton Community	10.52	(10.79)
Harbour Seals	8.91	(8.74)
Porpoise Northsea	8.49	(8.27)
Hardbottom Aphotic	3.92	(3.95)
Transportbottom Deep	2.15	(2.15)
Hardbottom Deep	0.37	(0.38)
Softbottom Aphotic	0.18	(0.18)
Eel Migration	0.14	(0.12)
Herring	0.14	(0.13)
Transportbottom Aphotic	0.11	(0.11)
Rivermouth Fish	0.0	(0.0)
Angiosperms	0.0	(0.0)
Birds Coastal	0.0	(0.0)
Seabird Winter Coastal	0.0	(0.0)
Sprat	0.0	(0.0)
Porpoise Beltsea	0.0	(0.0)
Shoreline Complexity	0.0	(0.0)
Softbottom Photic	0.0	(0.0)
Transportbottom Photic	0.0	(0.0)
Hardbottom Photic	0.0	(0.0)
Artificial Reefs Total	0.0	(0.0)
Haploops Reef	0.0	(0.0)
Deep Reef	0.0	(0.0)
Mussel Reefs Total	0.0	(0.0)
Grey Seals	0.0	(0.0)
Seabird Winter Offshore	0.0	(0.0)

Calculated with SyM

Date: 2018-03-22

Medins Havs och Vattenkonsulter AB