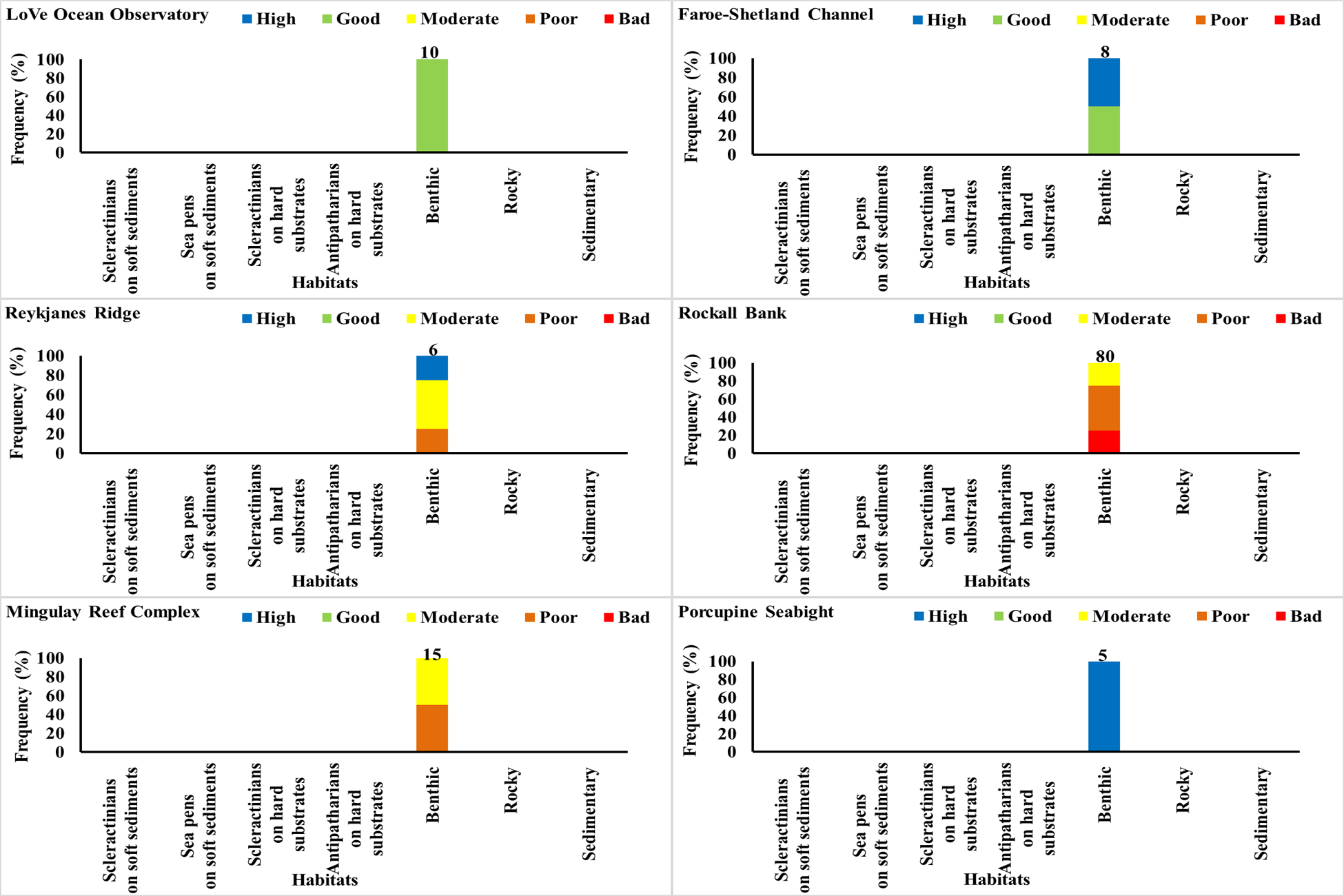
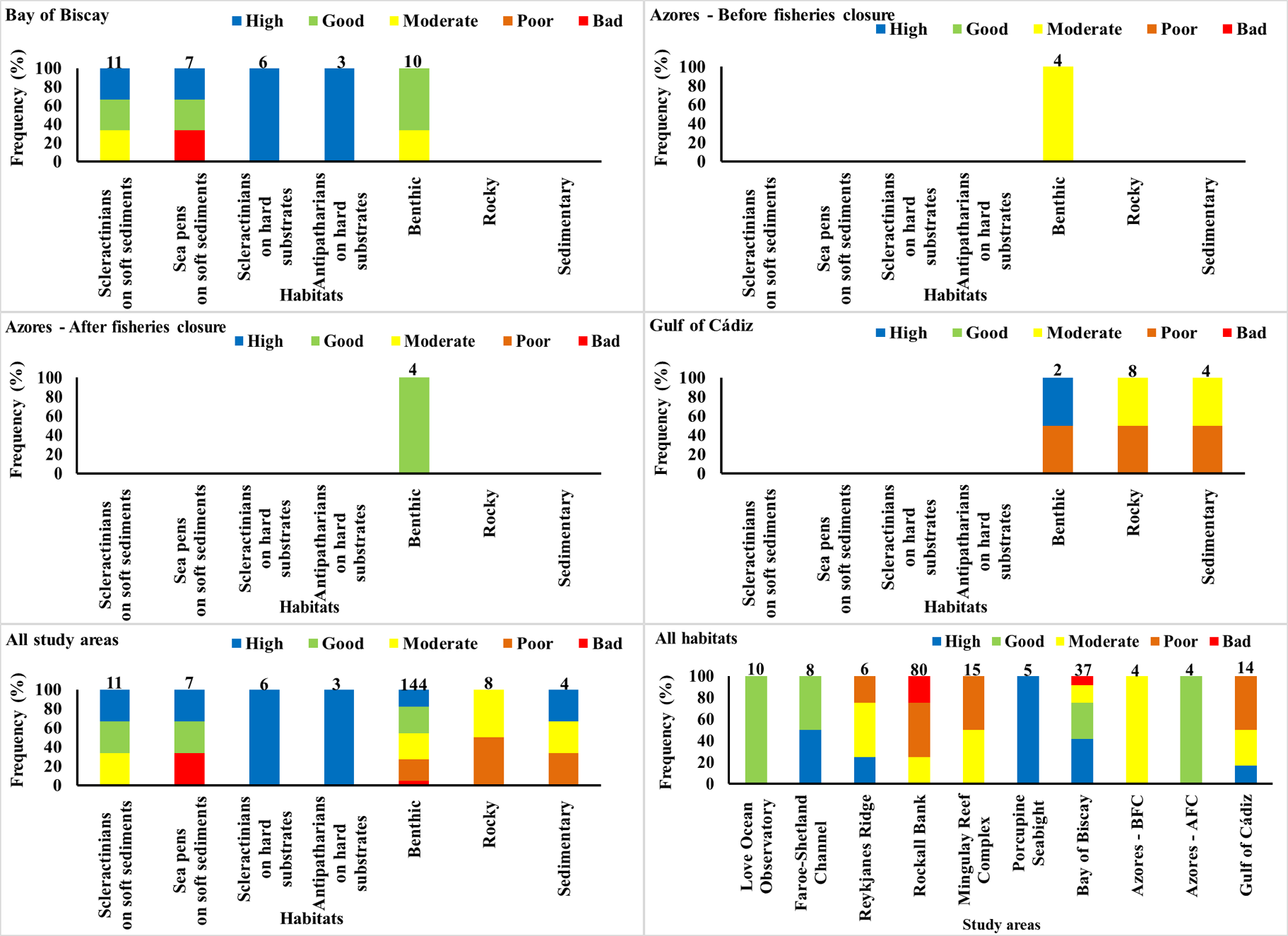
**Supplementary File**

Examples for each of the 6 approaches used in the setup of boundary values:

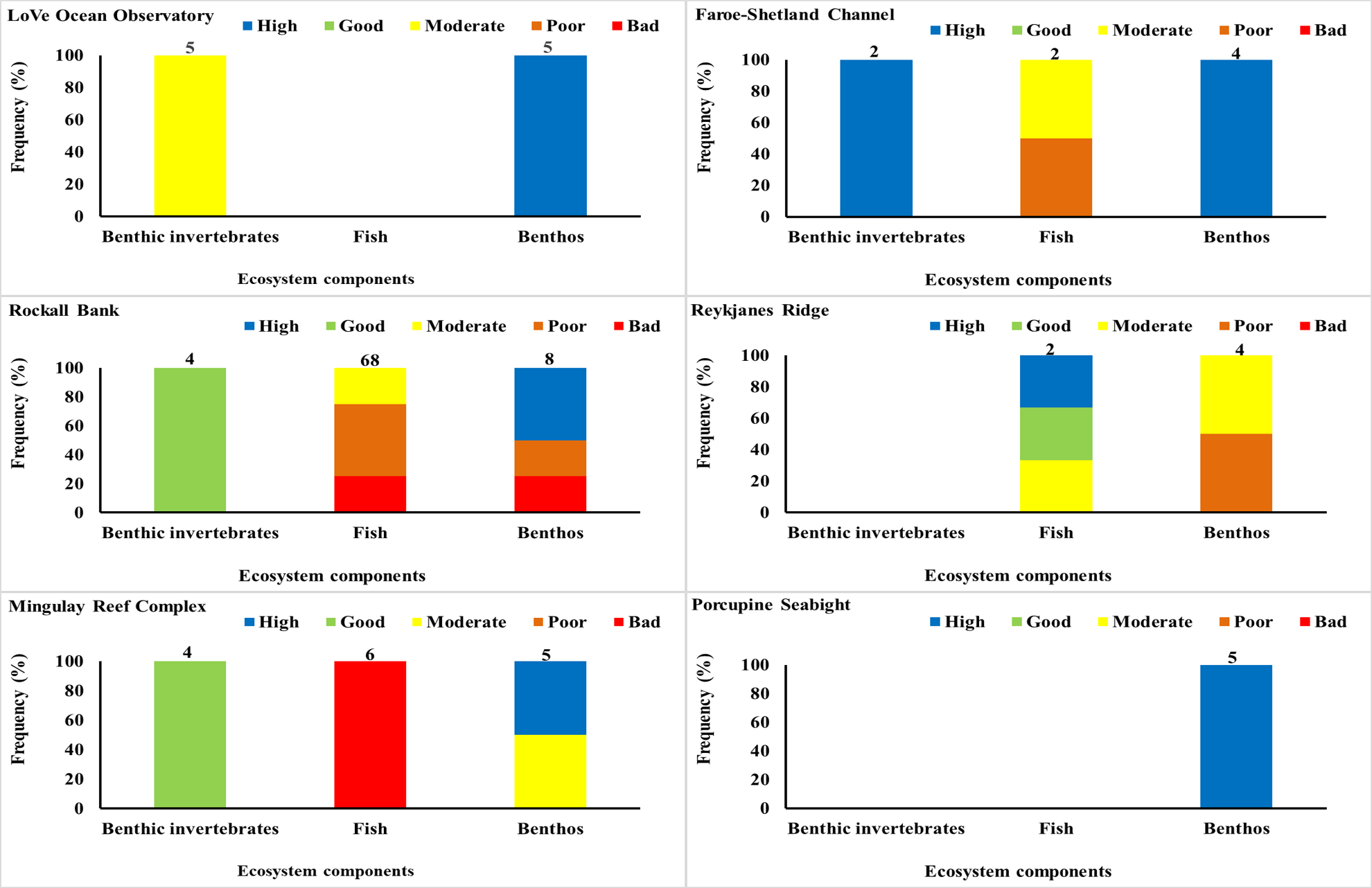
* **A1:** In the Rockall Bank the boundary values for the indicator “Abundance of non-commercial demersal fish and cephalopods” were set by the case study leader using a 32-year times series data. The lowest value in the time series was set as “worst”, the 80% of the maximum as “good” and the maximum values in the time series as “best” environmental status.
* **A2:** In the Mingulay Reef Complex the boundary values for the indicator “Ratio of live versus dead/overgrown coral cover” were set using case-study leader expertise and information available in the scientific literature (Vad et al., 2017; De Clippele et al., 2017). 0 was set as “worst”, the 70% of the maximum as “good” and the maximum value in Vad et al. (2017) as “best” environmental status.
* **A3:** In the Mingulay Reef Complex the boundary values for the indicator “Areal extent of human affected area” were set using case-study leader expertise and national legislation. 100% of affected areas was set as “worst”, 75% as “good” and 0% as “best” environmental status.
* **A4:** In the Faroe-Shetland Channel the boundary values for the indicator “Density of biogenic reef forming species” were set using case-study leader expertise and information found in the OSPAR (2010) “Background document for deep-sea sponge aggregations”. 0 sponge individuals/m2 was set as “worst”, 0.25 ind./m2 as “good” and 0.50 ind./m2 as “best” environmental status.
* **A5:** In the Reykjanes Ridge the boundary values for the indicator “Areal extent of protected sea areas” were set using case-study leader expertise and guidance from the United Nations Framework Convention on Climate Change Decision VII/15. 0% was set as “worst”, 10% was set as “good” and 15% as “best” environmental status.
* **A6:** In the Azores the boundary values for the indicator “Body length distribution of fish” was based on regional legislation and expert judgement based on survey data. For the species *Helicolenus dactylopterus* 14cm of total length was set as “worst”, 25cm as “good” and 42cm as “best” environmental status.



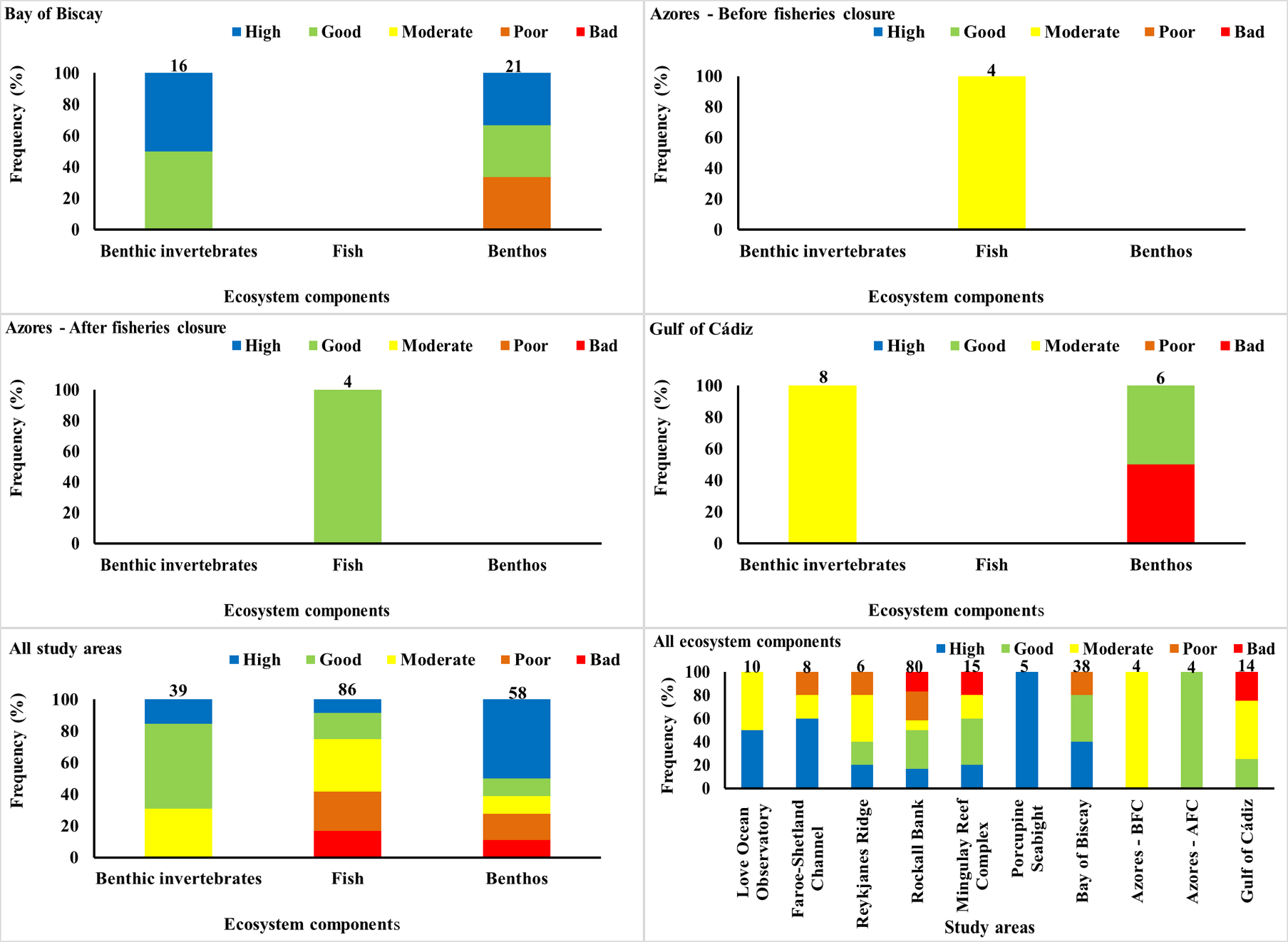
**Fig. 1.** Environmental status for the seven types of habitats across the study areas. The numbers of indicator values are shown on the top of the bars.



**Fig. 1 (cont’d).** Environmental status for the seven types of habitats across the study areas. The numbers of indicator values are shown on the top of the bars.



**Fig. 2.** Environmental status for the three types of ecosystem components across the study areas. The numbers of indicator values are shown on the top of the bars.



**Fig. 2 (cont’d).** Environmental status for the three types of ecosystem components across the study areas. The numbers of indicator values are shown on the top of the bars.

**Table 1.** List of descriptors, indicators, and their measurement units, spatial assessment units/habitats/ecosystems components for each of ATLAS study areas, Good Environmental Status (GES) threshold and method used for the setup of each GES threshold.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Worst status boundary** | **Moderate/good status**  **boundary** | **Best status boundary** | **Method used for the setup of the boundary values** |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Trisopterus minutus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-1 | Benthic | Fish | 4 | 5713 | 7141 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Trisopterus minutus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-2 | Benthic | Fish | 1 | 1673 | 2091 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Trisopterus minutus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-3 | Benthic | Fish | 0 | 36 | 45 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Trisopterus minutus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-4 | Benthic | Fish | 0 | 2 | 2 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Dipturus flossada*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-1 | Benthic | Fish | 0 | 1 | 1 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Dipturus flossada*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-2 | Benthic | Fish | 0 | 3 | 4 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Dipturus flossada*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-3 | Benthic | Fish | 0 | 2 | 2 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Dipturus flossada*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-4 | Benthic | Fish | 0 | 1 | 1 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Ammodytes marinus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-1 | Benthic | Fish | 0 | 10638 | 13297 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Ammodytes marinus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-2 | Benthic | Fish | 0 | 1235 | 1544 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Ammodytes marinus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-3 | Benthic | Fish | 0 | 2 | 2 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Ammodytes marinus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-4 | Benthic | Fish | 0 | 0 | 0 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Capros aper*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-1 | Benthic | Fish | 0 | 15 | 19 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Capros aper*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-2 | Benthic | Fish | 0 | 6 | 8 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Capros aper*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-3 | Benthic | Fish | 0 | 0 | 0 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Capros aper*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-4 | Benthic | Fish | 0 | 0 | 0 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Eutrigla gurnardus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-1 | Benthic | Fish | 0 | 541 | 676 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Eutrigla gurnardus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-2 | Benthic | Fish | 2 | 2450 | 3062 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Eutrigla gurnardus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-3 | Benthic | Fish | 0 | 13 | 16 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Eutrigla gurnardus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-4 | Benthic | Fish | 0 | 4 | 5 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Gymnammodytes semisquamatus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-1 | Benthic | Fish | 0 | 457 | 571 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Gymnammodytes semisquamatus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-2 | Benthic | Fish | 0 | 1006 | 1258 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Gymnammodytes semisquamatus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-3 | Benthic | Fish | 0 | 0 | 0 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D1** | Abundance of non-commercial demersal fish and cephalopods (*Gymnammodytes semisquamatus*) **(1)** | (Mean number/30 min trawl) | Rockall Bank SAU-4 | Benthic | Fish | 0 | 0 | 0 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D3** | Body length distribution of fish (*Helicolenus dactylopterus*/bluemouth) (201-700m depth) (2009 i.e. prior to fisheries closure) **(2)** | Total length (cm) | Azores SAU-1 | Benthic | Fish | 14 | 25 | 42 | Regional legislation and expert judgement based on survey data |
| **D3** | Body length distribution of fish (*Helicolenus dactylopterus*/bluemouth) (201-700m depth) (2016 i.e. after fisheries closure) **(2)** | Total length (cm) | Azores SAU-1 | Benthic | Fish | 14 | 25 | 42 | Regional legislation and expert judgement based on survey data |
| **D3** | Body length distribution of fish (*Pagellus bogaraveo*/blackspot seabream) (201-650m depth) (2009 i.e. prior to fisheries closure) **(2)** | Fork length (cm) | Azores SAU-1 | Benthic | Fish | 18 | 30 | 53 | National legislation and expert judgement based on survey data |
| **D3** | Body length distribution of fish (*Pagellus bogaraveo*/blackspot seabream) (201-650m depth) (2016 i.e. after fisheries closure) **(2)** | Fork length (cm) | Azores SAU-1 | Benthic | Fish | 18 | 30 | 53 | National legislation and expert judgement based on survey data |
| **D4** | Species richness of non-commercial fish **(3)** | Species richness per 0.3704 km2 | Rockall Bank SAU-1 | Benthic | Fish | 5 | 19 | 24 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Species richness of non-commercial fish **(3)** | Species richness per 2.2224 km2 | Rockall Bank SAU-2 | Benthic | Fish | 13 | 27 | 34 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Species richness of non-commercial fish **(3)** | Species richness per 0.4445 km2 | Rockall Bank SAU-3 | Benthic | Fish | 8 | 26 | 32 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Species richness of non-commercial fish **(3)** | Species richness per 0 km2 (0.1482 km2 [2016]) | Rockall Bank SAU-4 | Benthic | Fish | 20 | 22 | 28 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Species richness of non-commercial fish **(3)** | Mean species richness / km | Mingulay Reef Complex SAU-1 | Benthic | Fish | 0 | 1 | 5 | Expert judgement |
| **D4** | Species richness of corals **(4)** | Coral taxa / image | Bay of Biscay SAU-2 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthic Fauna | 0 | 0.5 | 1 | Expert judgement |
| **D4** | Species richness of corals **(4)** | Coral taxa / image | Bay of Biscay SAU-3 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthic Fauna | 0 | 0.5 | 1 | Expert judgement |
| **D4** | Species richness of corals **(4)** | Coral taxa / image | Bay of Biscay SAU-2 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on hard subtrates | Benthic Fauna | 0 | 0.25 | 0.5 | Expert judgement |
| **D4** | Species richness of corals **(4)** | Coral taxa / image | Bay of Biscay SAU-3 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on hard subtrates | Benthic Fauna | 0 | 0.25 | 0.5 | Expert judgement |
| **D4** | Species richness of corals **(4)** | Coral taxa / image | Bay of Biscay SAU-2 | Aggregations of antipatharians and alcyonaceans on hard substrates | Benthic Fauna | 0 | 1 | 2 | Expert judgement |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Species richness of corals **(4)** | Coral taxa / image | Bay of Biscay SAU-2 | Aggregations of seapens and alcyonaceans on soft sediments | Benthic Fauna | 0 | 0.5 | 1 | Expert judgement |
| **D4** | Species richness of corals **(4)** | Coral taxa / image | Bay of Biscay SAU\_3 | Aggregations of seapens and alcyonaceans on soft sediments | Benthic Fauna | 0 | 0.5 | 1 | Expert judgement |
| **D4** | Species richness of benthos **(5)** | Spp Richness per 5.39 km2 | Rockall Bank SAU-1 | Benthic | Benthic Fauna | 0 | 15 | 18 | Expert judgement (moderate/good=observed; observed+20%=best) |
| **D4** | Species richness of benthos **(5)** | Spp Richness per 47.6 km2 | Rockall Bank SAU-2 | Benthic | Benthic Fauna | 0 | 38 | 46 | Expert judgement (moderate/good=observed; observed+20%=best) |
| **D4** | Species richness of benthos **(5)** | Spp Richness per 17.53 km2 | Rockall Bank SAU-3 | Benthic | Benthic Fauna | 0 | 25 | 30 | Expert judgement (moderate/good=observed; observed+20%=best) |
| **D4** | Species richness of benthos **(5)** | Spp Richness per 10.11 km2 | Rockall Bank SAU-4 | Benthic | Benthic Fauna | 0 | 39 | 47 | Expert judgement (moderate/good=observed; observed+20%=best) |
| **D4** | Species diversity (Shannon index) of non-commercial fish **(6)** | Shannon Index | Reykjanes Ridge SAU-1-1 | Benthic | Fish | 0 | 0.43 | 0.57 | Expert judgement (worst=0; mod/good=average over 1995-2017; best=highest over 1995-2017; observed value=average for 2015-2017) |
| **D4** | Species diversity (Shannon index) of non-commercial fish **(6)** | Shannon Index | Reykjanes Ridge SAU-1-2 | Benthic | Fish | 0 | 1.04 | 1.35 | Expert judgement (worst=0; mod/good=average over 1995-2017; best=highest over 1995-2017; observed value=average for 2015-2017) |
| **D4** | Species diversity (Shannon index) of non-commercial fish **(6)** | Shannon Index | Rockall Bank SAU-1 | Benthic | Fish | 0.369 | 1.459 | 1.625 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Species diversity (Shannon index) of non-commercial fish **(6)** | Shannon Index | Rockall Bank SAU-2 | Benthic | Fish | 0.777 | 1.433 | 1.79 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Species diversity (Shannon index) of non-commercial fish **(6)** | Shannon Index | Rockall Bank SAU-3 | Benthic | Fish | 0.385 | 1.15 | 1.33 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Species diversity (Shannon index) of non-commercial fish **(6)** | Shannon Index | Rockall Bank SAU-4 | Benthic | Fish | 0.32 | 0.621 | 0.776 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Abundance of commercial fish (*Trisopterus luscus*) **(7)** | Number of fish/km | Mingulay Reef Complex SAU-1 | Benthic | Fish | 0 | 40.8 | 102 | Expert judgement and scientific literature (Buhl-Mortensen et al., 1995; Soffker et al., 2011) |
| **D4** | Abundance of commercial fish (*Micromesistius poutassou*) **(7)** | Number of fish/km | Mingulay Reef Complex SAU-1 | Benthic | Fish | 0 | 6.8 | 17 | Expert judgement and scientific literature (Buhl-Mortensen et al., 1995; Soffker et al., 2011) |
| **D4** | Abundance of commercial fish (*Pollachius* sp.) **(7)** | Number of fish/km | Mingulay Reef Complex SAU-1 | Benthic | Fish | 0 | 292.4 | 731 | Expert judgement and scientific literature (Buhl-Mortensen et al., 1995; Soffker et al., 2011) |
| **D4** | Abundance of commercial fish (*Helicolenus dactylopterus*) **(7)** | Number of fish/km | Mingulay Reef Complex SAU-1 | Benthic | Fish | 0 | 10.8 | 27 | Expert judgement and scientific literature (Buhl-Mortensen et al., 1995; Soffker et al., 2011) |
| **D4** | Abundance of commercial fish (*Scyliorhinus canicula*) **(7)** | Number of fish/km | Mingulay Reef Complex SAU-1 | Benthic | Fish | 0 | 41.6 | 104 | Expert judgement and scientific literature (Buhl-Mortensen et al., 1995; Soffker et al., 2011) |
| **D4** | Biomass of demersal fish **(8)** | Demersal landings (tonnes) from Scottish waters  per ICES statistical rectangle (2012-2016) | Faroe-Shetland Channel SAU-1 | Benthic | Fish | 2066 | 200 | 38 | Expert judgement |
| **D4** | Biomass of demersal fish **(8)** | Demersal landings (tonnes) from Scottish waters  per ICES statistical rectangle (2012-2016) | Faroe-Shetland Channel– SAU-2 | Benthic | Fish | 2066 | 200 | 38 | Expert judgement |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Biomass of selected fish species: Angler (Monk fish) (*Lophius piscatorius*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.004 | 5.1808 | 6.476 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Angler (Monk fish) (*Lophius piscatorius*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 0.009 | 2.7824 | 3.478 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Angler (Monk fish) (*Lophius piscatorius*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 0.765 | 4.4152 | 5.519 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Angler (Monk fish) (*Lophius piscatorius*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-4 | Benthic | Fish | 5.072 | 5.1816 | 6.477 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Blue-mouth (*Helicolenus dactylopterus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.012 | 3.6272 | 4.534 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Blue-mouth (*Helicolenus dactylopterus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 0.018 | 1.6848 | 2.106 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Blue-mouth (*Helicolenus dactylopterus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 0.279 | 1.4592 | 1.824 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Biomass of selected fish species: Blue-mouth (*Helicolenus dactylopterus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-4 | Benthic | Fish | 1.981 | 4.1248 | 5.156 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Grey Gurnard (*Eutrigla gurnardus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.045 | 10.492 | 13.115 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Grey Gurnard (*Eutrigla gurnardus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 0.095 | 50.9104 | 63.368 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Grey Gurnard (*Eutrigla gurnardus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 0.002 | 0.4424 | 0.553 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Grey Gurnard (*Eutrigla gurnardus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-4 | Benthic | Fish | 0.008 | 0.2712 | 0.339 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Haddock (*Melanogrammus aeglefinus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.912 | 13.34 | 16.675 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Haddock (*Melanogrammus aeglefinus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 2.421 | 23.4416 | 29.302 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Haddock (*Melanogrammus aeglefinus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 1.475 | 7.8256 | 9.782 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Biomass of selected fish species: Haddock (*Melanogrammus aeglefinus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank  SAU-4 | Benthic | Fish | 0.668 | 2.1472 | 2.684 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Ling (*Molva molva*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.054 | 1.6576 | 2.072 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Ling (*Molva molva*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 0.097 | 4.4488 | 5.561 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Ling (*Molva molva*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 1.892 | 7.0744 | 8.843 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Ling (*Molva molva*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-4 | Benthic | Fish | 1.643 | 2.9768 | 3.721 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Long Rough Dab (*Hippoglossoides platessoides*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.004 | 0.2104 | 0.263 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Long Rough Dab (*Hippoglossoides platessoides*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 0.027 | 0.2352 | 0.294 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Biomass of selected fish species: Long Rough Dab (*Hippoglossoides platessoides*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 0.123 | 0.5248 | 0.656 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Long Rough Dab (*Hippoglossoides platessoides*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-4 | Benthic | Fish | 0.147 | 0.42 | 0.525 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Megrim (*Lepidorhombus whiffiagonis*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.042 | 0.508 | 0.635 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Megrim (*Lepidorhombus whiffiagonis*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 0.163 | 0.6872 | 0.859 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Megrim (*Lepidorhombus whiffiagonis*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 0.247 | 0.9752 | 1.219 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Megrim (*Lepidorhombus whiffiagonis*) | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 0.295 | 0.7624 | 0.953 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Norway Haddock (*Sebastes viviparus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.068 | 5.0664 | 6.333 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Norway Haddock *(Sebastes viviparus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 0.446 | 9.3536 | 11.692 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Biomass of selected fish species: Norway Haddock (*Sebastes viviparus)* **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 0.089 | 1.3536 | 1.692 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Norway Haddock (*Sebastes viviparus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-4 | Benthic | Fish | 0.133 | 0.2736 | 0.342 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Witch (*Glyptocephalus cynoglossus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-1 | Benthic | Fish | 0.11 | 0.088 | 0.11 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Witch (*Glyptocephalus cynoglossus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-2 | Benthic | Fish | 0.043 | 0.2384 | 0.298 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Witch (*Glyptocephalus cynoglossus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-3 | Benthic | Fish | 0.171 | 0.3464 | 0.433 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species: Witch (*Glyptocephalus cynoglossus*) **(9)** | Mean Biomass (kg) per 30 min trawl | Rockall Bank SAU-4 | Benthic | Fish | 0.268 | 0.8096 | 1.012 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) |
| **D4** | Biomass of selected fish species (*Helicolenus dactylopterus*/bluemouth) (250-600m depth) (2009 i.e. prior to fisheries closure) **(9)** | CPUEb (kg fish/1000 hooks) | Azores SAU-1 | Benthic | Fish | 5.29 | 19.55 | 24.44 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) and regional legislation |
| **D4** | Biomass of selected fish species (*Helicolenus dactylopterus*/bluemouth) (250-600m depth) (2016 i.e. after fisheries closure) **(9)** | CPUEb (kg fish/1000 hooks) | Azores SAU-1 | Benthic | Fish | 5.29 | 19.55 | 24.44 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) and regional legislation |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D4** | Biomass of selected fish species (*Pagellus bogaraveo*/blackspot seabream) (250-600m depth) (2009 i.e. prior to fisheries closure) **(9)** | CPUEb (kg fish/1000 hooks) | Azores SAU-1 | Benthic | Fish | 8.27 | 65.76 | 82.20 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) and regional legislation |
| **D4** | Biomass of selected fish species (*Pagellus bogaraveo*/blackspot seabream) (250-600m depth) (2016 i.e. after fisheries closure) **(9)** | CPUEb (kg fish/1000 hooks) | Azores SAU-1 | Benthic | Fish | 8.27 | 65.76 | 82.20 | Expert judgement (minimum=worst and highest=best over time series; moderate/good=80% of the best) and regional legislation |
| **D6** | Fishing Effort **(10)** | Nr hauls per Km2 per year | Gulf of Cádiz SAU-1 | Rocky | Benthos | 1 | 0.5 | 0 | Expert judgement |
| **D6** | Fishing Effort **(10)** | Nr hauls per Km2 per year | Gulf of Cádiz SAU-1 | Sedimentary | Benthos | 4 | 2 | 0 | Expert judgement |
| **D6** | Fishing Effort **(10)** | Nr hauls per Km2 per year | Gulf of Cádiz SAU-2 | Rocky | Benthos | 1 | 0.5 | 0 | Expert judgement |
| **D6** | Fishing Effort **(10)** | Nr hauls per Km2 per year | Gulf of Cádiz SAU-2 | Sedimentary | Benthos | 4 | 2 | 0 | Expert judgement |
| **D6** | Areal extent of human affected area **(11)** | % of seafloor | LoVe Ocean Observatory SAU-1 | Benthic | Benthos | 100 | 5 | 0 | Expert judgement  (worst=100% seafloor affected, best=0% seafloor affected) |
| **D6** | Areal extent of human affected area **(11)** | % of seafloor | LoVe Ocean Observatory SAU-2 | Benthic | Benthos | 100 | 5 | 0 | Expert judgement and comparison with other cold-water coral areas along the Norwegian continental shelf (e.g., Sularevet, Iveryggen, Storneset, Activneset; www.mareano.no) |
| **D6** | Areal extent of human affected area **(11)** | % of sea floor covered | Faroe-Shetland Channel SAU-1 | Benthic | Benthos | 100 | 10 | 0 | Expert judgement |
| **D6** | Areal extent of human affected area **(11)** | % | Reykjanes Ridge SAU-1 | Benthic | Benthos | 100 | 10 | 0 | Expert judgement |
| **D6** | Areal extent of human affected area **(11)** | % | Reykjanes Ridge SAU-2 | Benthic | Benthos | 100 | 10 | 0 | Expert judgement |
| **D6** | Areal extent of human affected area **(11)** | Area (km2) where surface swept area ratio is > 0.2 (or, one fifth) of the cell | Rockall Bank SAU-1 | Benthic | Benthos | 1274.35 | 1204.52 | 1204.52 | Expert judgement and use of ICES data |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D6** | Areal extent of human affected area **(11)** | Area (km2) where surface swept area ratio is > 0.2 (or, one fifth) of the cell | Rockall Bank SAU-2 | Benthic | Benthos | 9595.82 | 8822.76 | 7352.3 | Expert judgement and use of ICES data |
| **D6** | Areal extent of human affected area **(11)** | Area (km2) where surface swept area ratio is > 0.2 (or, one fifth) of the cell | Rockall Bank SAU-3 | Benthic | Benthos | 4076.61 | 3032.148 | 2526.79 | Expert judgement and use of ICES data |
| **D6** | Areal extent of human affected area **(11)** | Area (km2) where surface swept area ratio is > 0.2 (or, one fifth) of the cell | Rockall Bank SAU-4 | Benthic | Benthos | 4750.7 | 980.22 | 816.85 | Expert judgement and use of ICES data |
| **D6** | Areal extent of human affected area **(11)** | % (open to static gear) | Mingulay Reef Complex SAU-2 | Benthic | Benthos | 100 | 75 | 0 | Expert judgement and national legislation |
| **D6** | Areal extent of human affected area **(11)** | Dimensionless | Porcupine Seabight SAU-1 | Benthic | Benthos | 1 | 0.15 | 0 | Expert judgement and OSPAR recommendation |
| **D6** | Areal extent of human affected area **(11)** | Dimensionless | Porcupine Seabight SAU-1 | Benthic | Benthos | 1 | 0.15 | 0 | Expert judgement and OSPAR recommendation |
| **D6** | Areal extent of human affected area **(11)** | Dimensionless | Porcupine Seabight SAU-1 | Benthic | Benthos | 1 | 0.15 | 0 | Expert judgement and OSPAR recommendation |
| **D6** | Areal extent of human affected area **(11)** | Dimensionless | Porcupine Seabight SAU-1 | Sedimentary | Benthos | 1 | 0.15 | 0 | Expert judgement and OSPAR recommendation |
| **D6** | Areal extent of human affected area **(11)** | Dimensionless | Porcupine Seabight SAU-1 | Benthic | Benthos | 1 | 0.15 | 0 | Expert judgement and OSPAR recommendation |
| **D6** | Areal extent of human affected area **(11)** | % | Bay of Biscay SAU-1 | Benthic | Benthos | 500 | 50 | 0 | Expert judgement |
| **D6** | Areal extent of human affected area **(11)** | % | Bay of Biscay SAU-2 | Benthic | Benthos | 500 | 50 | 0 | Expert judgement |
| **D6** | Areal extent of human affected area **(11)** | % | Bay of Biscay SAU-3 | Benthic | Benthos | 500 | 50 | 0 | Expert judgement |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D6** | Areal extent of human affected area **(11)** | % trawled area | Gulf of Cádiz SAU-1 | Benthic | Benthos | 50 | 30 | 0 | Expert judgement |
| **D6** | Areal extent of human affected area **(11)** | % trawled area | Gulf of Cádiz SAU-2 | Benthic | Benthos | 50 | 30 | 0 | Expert judgement |
| **D6** | Areal extent of protected sea areas **(12)** | % of seafloor | LoVe Ocean Observatory SAU-1 | Benthic | Benthos | 0 | 50 | 100 | Expert judgement (worst=0% seafloor protected, best=100% seafloor protected) |
| **D6** | Areal extent of protected sea areas **(12)** | % | Faroe-Shetland Channel SAU-1 | Benthic | Benthos | 0 | 10 | 100 | Expert judgement |
| **D6** | Areal extent of protected sea areas **(12)** | % | Faroe-Shetland Channel SAU-2 | Benthic | Benthos | 0 | 10 | 100 | Expert judgement |
| **D6** | Areal extent of protected sea areas **(12)** | % | Reykjanes Ridge SAU-1 | Benthic | Benthos | 0 | 10 | 15 | Expert judgement and UN Framework Convention on Climate Change Decision |
| **D6** | Areal extent of protected sea areas **(12)** | % | Reykjanes Ridge SAU-2 | Benthic | Benthos | 0 | 10 | 15 | Expert judgement and UN Framework Convention on Climate Change Decision |
| **D6** | Areal extent of protected sea areas **(12)** | Area (km2) | Rockall Bank SAU-1 | Benthic | Benthos | 0 | 191.1529 | 1274.353 | Expert judgement and CBD guidance (i.e. CBD plus 5%) |
| **D6** | Areal extent of protected sea areas **(12)** | Area (km2) | Rockall Bank SAU-2 | Benthic | Benthos | 0 | 2089.7226 | 13931.484 | Expert judgement and CBD guidance (i.e. CBD plus 5%) |
| **D6** | Areal extent of protected sea areas **(12)** | Area (km2) | Rockall Bank SAU-3 | Benthic | Benthos | 0 | 1125.164 | 7501.094 | Expert judgement and CBD guidance (i.e. CBD plus 5%) |
| **D6** | Areal extent of protected sea areas **(12)** | Area (km2) | Rockall Bank SAU-4 | Benthic | Benthos | 0 | 2713.6309 | 18090.873 | Expert judgement and CBD guidance (i.e. CBD plus 5%) |
| **D6** | Areal extent of protected sea areas **(12)** | % (completely closed to all gears) | Mingulay Reef Complex SAU-2 | Benthic | Benthos | 0 | 50 | 100 | National legislation |
| **D6** | Areal extent of protected sea areas **(12)** | % | Bay of Biscay SAU-1 | Benthic | Benthos | 0 | 10 | 30 | Expert judgement |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D6** | Number of size cohorts within a population **(13)** | Number of size cohorts | Faroe-Shetland Channel SAU-1 | Benthic | Benthic Fauna | 1 | 3 | 4 | Expert judgement and scientific literature (Bo et al., 2012) |
| **D6** | Areal extent of biogenic/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant biogenic substrata) **(14)** | % of seafloor | LoVe Ocean Observatory SAU-1 | Benthic | Benthos | 0 | 60 | 75 | Expert judgement |
| **D6** | Areal extent of biogenic/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant biogenic substrata) **(14)** | % of seafloor | LoVe Ocean Observatory SAU-2 | Benthic | Benthos | 0 | 50 | 100 | Expert judgement (worst=0% seafloor coverage, best=100% seafloor coverage) |
| **D6** | Areal extent of biogenic/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant biogenic substrata) **(14)** | Area covered by live coral, coral rubble (km2) | Mingulay Reef Complex SAU-2 | Benthic | Benthos | 0 | 4.12 | 8.25 | Expert judgement and scientific literature (De Clippele et al., 2017) |
| **D6** | Areal extent of biogenic/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant biogenic substrata) **(14)** | % | Bay of Biscay SAU-1 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthos | 0 | 0.5 | 1 | Expert judgement |
| **D6** | Areal extent of biogenic/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant biogenic substrata) **(14)** | % | Bay of Biscay SAU-2 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthos | 0 | 4 | 8 | Expert judgement |
| **D6** | Areal extent of biogenic/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant biogenic substrata) **(14)** | % | Bay of Biscay SAU-3 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthos | 0 | 9 | 17 | Expert judgement |
| **D6** | Areal extent of rocky seafloor/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant sedimentary communities) **(15)** | % | Bay of Biscay SAU-2 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on hard subtrates | Benthos | 0 | 2 | 4 | Expert judgement |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D6** | Areal extent of rocky seafloor/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant sedimentary communities) **(15)** | % | Bay of Biscay SAU-3 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on hard subtrates | Benthos | 0 | 2 | 4 | Expert judgement |
| **D6** | Areal extent of rocky seafloor/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant sedimentary communities) **(15)** | % | Bay of Biscay SAU-2 | Aggregations of antipatharians and alcyonaceans on hard substrates | Benthos | 0 | 2 | 4 | Expert judgement |
| **D6** | Areal extent of sedimentary seafloor/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant sedimentary communities) **(16)** | Area covered by live coral, coral rubble (km2) | Mingulay Reef Complex SAU-2 | Benthic | Benthic Fauna | 0 | 4.12 | 8.25 | Expert judgement and scientific literature (De Clippele et al., 2017) |
| **D6** | Areal extent of sedimentary seafloor/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant sedimentary communities) **(16)** | % | Bay of Biscay SAU-1 | Aggregations of seapens and alcyonaceans on soft sediments | Benthos | 0 | 3 | 10 | Expert judgement |
| **D6** | Areal extent of sedimentary seafloor/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant sedimentary communities) **(16)** | % | Bay of Biscay SAU-2 | Aggregations of seapens and alcyonaceans on soft sediments | Benthos | 0 | 2 | 7 | Expert judgement |
| **D6** | Areal extent of sedimentary seafloor/vulnerable habitats (type, abundance, biomass, condition and areal extent of relevant sedimentary communities) **(16)** | % | Bay of Biscay SAU-3 | Aggregations of seapens and alcyonaceans on soft sediments | Benthos | 0 | 3 | 10 | Expert judgement |
| **D6** | Distribution and condition of habitat forming species **(17)** | Area covered by coral mini-mounds (km2) | Mingulay Reef Complex SAU-2 | Benthic | Benthic Fauna | 0 | 4.12 | 8.25 | Expert judgement and scientific literature (De Clippele et al., 2017) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D6** | VMEs and VME indicator taxa (status, areal extent, size-frequency distribution) **(18)** | VME indicator taxa per km2 | Mingulay Reef Complex SAU-2 | Benthic | Benthic Fauna | 0 | 3 | 5 | Expert judgement |
| **D6** | Abundance of coral colonies alive **(19)** | % of seafloor | LoVe Ocean Observatory SAU-1 | Benthic | Benthic Fauna | 0 | 60 | 75 | Expert judgement and comparison with other cold-water coral areas along the Norwegian continental shelf (e.g., Sularevet, Iveryggen, Storneset, Activneset; www.mareano.no) |
| **D6** | Abundance of coral colonies alive **(19)** | % of seafloor | LoVe Ocean Observatory SAU-2 | Benthic | Benthic Fauna | 0 | 1.5 | 2 | Expert judgement and comparison with other cold-water coral areas along the Norwegian continental shelf (e.g., Sularevet, Iveryggen, Storneset, Activneset; www.mareano.no) |
| **D6** | Abundance of coral colonies alive **(19)** | % | Bay of Biscay SAU-2 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthic Fauna | 0 | 0.5 | 35 | Expert judgement |
| **D6** | Abundance of coral colonies alive **(19)** | % | Bay of Biscay SAU-3 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthic Fauna | 0 | 0.5 | 35 | Expert judgement |
| **D6** | Abundance of corals (excluding reef building corals) **(20)** | Coral colonies per image | Bay of Biscay SAU-2 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthic Fauna | 0 | 2 | 4 | Expert judgement |
| **D6** | Abundance of corals (excluding reef building corals) **(20)** | Coral colonies per image | Bay of Biscay SAU-3 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthic Fauna | 0 | 2 | 4 | Expert judgement |
| **D6** | Abundance of corals (excluding reef building corals) **(20)** | Coral colonies per image | Bay of Biscay SAU-2 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on hard substrates | Benthic Fauna | 0 | 0.5 | 1 | Expert judgement |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D6** | Abundance of corals (excluding reef building corals) **(20)** | Coral colonies per image | Bay of Biscay SAU-3 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on hard substrates | Benthic Fauna | 0 | 0.5 | 1 | Expert judgement |
| **D6** | Abundance of corals (excluding reef building corals) **(20)** | Coral colonies per image | Bay of Biscay SAU-2 | Aggregations of antipatharians and alcyonaceans on hard substrates | Benthic Fauna | 0 | 2 | 5 | Expert judgement |
| **D6** | Abundance of corals (excluding reef building corals) **(20)** | Coral colonies per image | Bay of Biscay SAU-2 | Aggregations of seapens and alcyonaceans on soft sediments | Benthic Fauna | 0 | 1.5 | 3 | Expert judgement |
| **D6** | Abundance of corals (excluding reef building corals) **(20)** | Coral colonies per image | Bay of Biscay SAU-3 | Aggregations of seapens and alcyonaceans on soft sediments | Benthic Fauna | 0 | 1.5 | 3 | Expert judgement |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) **(21)** | % seafloor | LoVe Ocean Observatory SAU-1 | Benthic | Benthic Fauna | 0 | 60 | 75 | Expert judgement and comparison with other cold-water coral areas along the Norwegian continental shelf (e.g., Sularevet, Iveryggen, Storneset, Activneset; www.mareano.no) |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) **(21)** | % seafloor | LoVe Ocean Observatory SAU-2 | Benthic | Benthic Fauna | 0 | 1.5 | 2 | Expert judgment and comparison with protected SAU1 area |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) **(21)** | Ind./m2 | Faroe-Shetland Channel SAU-1 | Benthic | Benthic Fauna | 0 | 0.25 | 0.50 | Expert judgement and use of OSPAR documentation (deep-sea sponge aggregations) |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) **(21)** | Area covered by live coral (km2) | Mingulay Reef Complex SAU-2 | Benthic | Benthic Fauna | 0 | 4.12 | 8.25 | Expert judgement and scientific literature (De Clippele et al., 2017) |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) (Cold-water coral) **(21)** | Number of colonies/m2 | Gulf of Cádiz SAU-1 | Rocky | Benthic Fauna | 0 | 1 | 2 | Expert judgement |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) (Gorgonian) **(21)** | Number of colonies/m2 | Gulf of Cádiz SAU-1 | Rocky | Benthic Fauna | 0 | 3 | 6 | Expert judgement |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) (Gorgonian) **(21)** | Number of colonies/m2 | Gulf of Cádiz SAU-2 | Rocky | Benthic Fauna | 0 | 3 | 6 | Expert judgement |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) (Antipatharian) **(21)** | Number of colonies/m2 | Gulf of Cádiz SAU-1 | Rocky | Benthic Fauna | 0 | 0.5 | 1 | Expert judgement |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) (Sponges) **(21)** | Number of colonies/m2 | Gulf of Cádiz SAU-1 | Rocky | Benthic Fauna | 0 | 7.5 | 15 | Expert judgement |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) (Sponges) **(21)** | Number of colonies/m2 | Gulf of Cádiz SAU-2 | Rocky | Benthic Fauna | 0 | 1 | 2 | Expert judgement |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) (Sea-pens) **(21)** | Number of colonies/m2 | Gulf of Cádiz SAU-1 | Sedimentary | Benthic Fauna | 0 | 3 | 6 | Expert judgement |
| **D6** | Density of biogenic reef forming species (type, abundance, biomass and areal extent of relevant biogenic substratum per habitat type) (Sea-pens) **(21)** | Number of colonies/m2 | Gulf of Cádiz  SAU-2 | Sedimentary | Benthic Fauna | 0 | 2 | 4 | Expert judgement |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D6** | Ratio of live versus dead/overgrown coral cover **(22)** | Dimensionless | LoVe Ocean Observatory SAU-1 | Benthic | Benthic Fauna | 0 | 30 | 100 | Expert judgement |
| **D6** | Ratio of live versus dead/overgrown coral cover **(22)** | Dimensionless | Mingulay Reef Complex SAU-2 | Benthic | Benthic Fauna | 0 | 0.25 | 0.36 | Expert judgement |
| **D6** | Ratio of live versus dead/overgrown coral cover **(22)** | Dimensionless | Bay of Biscay SAU-1 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthos | 0 | 0.005 | 0.01 | Expert judgement |
| **D6** | Ratio of live versus dead/overgrown coral cover **(22)** | Dimensionless | Bay of Biscay SAU-2 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthos | 0 | 0.005 | 0.01 | Expert judgement |
| **D6** | Ratio of live versus dead/overgrown coral cover **(22)** | Dimensionless | Bay of Biscay SAU-3 | Aggregations of *Lophelia pertusa* / *Madrepora oculata* on soft sediments | Benthos | 0 | 0.005 | 0.01 | Expert judgement |
| **D10** | Areal extent of litter: Type (e.g. plastic, glass)/abundance/density/weight **(23)** | Items/km2 | Faroe-Shetland Channel SAU-1 | Benthic | Benthos | 6000 | 500 | 0 | Expert judgment and scientific literature (Pham et al., 2014) |
| **D10** | Areal extent of litter: Type (e.g. plastic, glass)/abundance/density/weight **(23)** | Number of items per minute of video tow | Mingulay Reef Complex SAU-1 | Benthic | Benthos | 1 | 0.5 | 0 | Expert judgment and scientific literature (Pham et al., 2014) |
| **D10** | Areal extent of litter: Type (e.g. plastic, glass)/abundance/density/weight **(23)** | Number of items per image | Bay of Biscay SAU-1 | Benthic | Benthos | 1 | 0.01 | 0 | Expert judgment |
| **Descriptor** | **Indicator** | **Indicator measurement units** | **Study Area - SAU** | **Habitat** | **Ecosystem component** | **Bad status boundary** | **GES**  **boundary** | **High status boundary** | **Method used for boundary values setup** |
| **D10** | Areal extent of litter: Type (e.g. plastic, glass)/abundance/density/weight **(23)** | Number of items per image | Bay of Biscay SAU-2 | Benthic | Benthos | 1 | 0.01 | 0 | Expert judgment |
| **D10** | Areal extent of litter: Type (e.g. plastic, glass)/abundance/density/weight **(23)** | Number of items per image | Bay of Biscay SAU-3 | Benthic | Benthos | 1 | 0.01 | 0 | Expert judgment |
| **D10** | Density of abandoned fishing gear (e.g. lines, nets, etc.) **(24)** | Number of fishing gear items per image | Bay of Biscay SAU-1 | Benthic | Benthos | 1 | 0.001 | 0 | Expert judgment |
| **D10** | Density of abandoned fishing gear (e.g. lines, nets, etc.) **(24)** | Number of fishing gear items per image | Bay of Biscay SAU-2 | Benthic | Benthos | 1 | 0.001 | 0 | Expert judgment |
| **D10** | Density of abandoned fishing gear (e.g. lines, nets, etc.) **(24)** | Number of fishing gear items per image | Bay of Biscay SAU-3 | Benthic | Benthos | 1 | 0.001 | 0 | Expert judgment |