

Trying Rmarkdown

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Introduction

The Ocean Health Index (Halpern et al., 2012; Selig et al., 2013) derives most of its pressures from Halpern et al. (2008)...

0.1 Food Provision: Fisheries

Amount of sustainable wild-caught seafood compared to the max sustainable

$$x_{FIS} = (\prod_{g=1}^6 SS_{i,g}^{C_{i,g}})^{\sum \frac{1}{C_{i,g}}}$$

Variables:

- SS : stock status score, based on B/B_{msy} and an underharvest penalty adjustment
- C : total catch
- i : OHI reporting region
- g : level of taxonomic grouping (ISSCAAP)

0.2 Results

Hats off to the top scoring region of **Heard and McDonald Islands** with a score of 90.29! The top 10 scoring regions (of 221 globally) are largely comprised of unpopulated islands (see Table 1).

Region	Score
Heard and McDonald Islands	90.29
Ile Europa	89.48
Bassas da India	88.17
Howland Island and Baker Island	85.89
Juan de Nova Island	83.84

Region	Score
Glorioso Islands	83.79
Kerguelen Islands	82.84
Northern Saint-Martin	82.58
Nauru	82.18
Seychelles	81.93

Table 1: Top 10 scoring regions.

The global average of 68 consists of food provision scores being lowest (Mariculture = 26; Fisheries = 40), but Artisanal Fishing Opportunities highest (98) (see Figure 1).

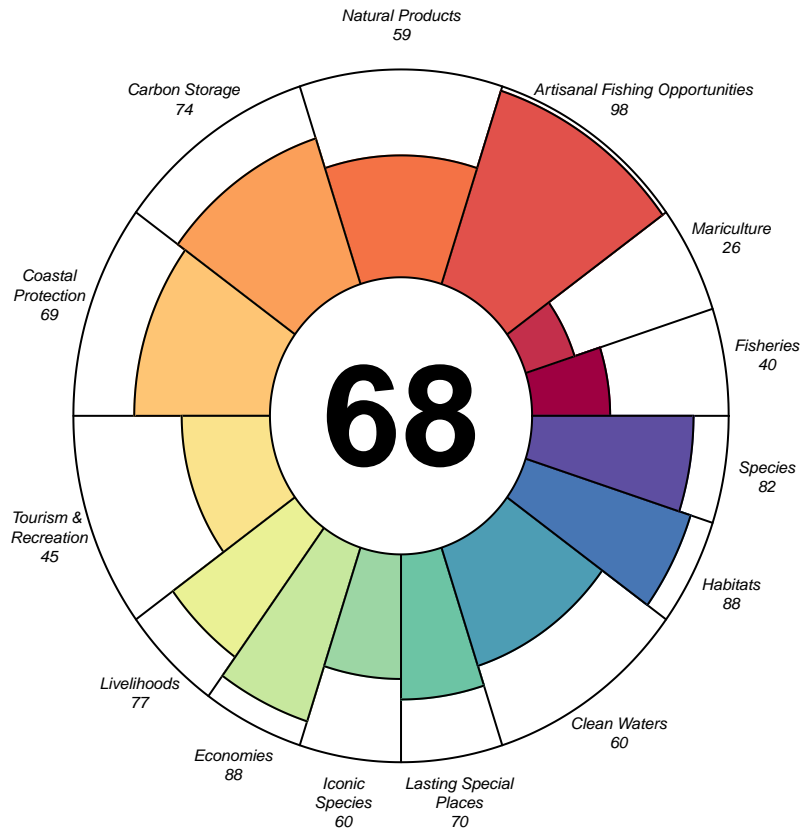


Figure 1: Global average across Ocean Health Index goals.

Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

0.3 Github Markdown

To get github friendly Markdown document for cleanly tracking changes to document in Github, put the following output first:

```
output:
  md_document:
    variant: "markdown_github"
```

NOTE: You need to run this **LAST** though, since knitting other formats wipes out the `test_files` directory. To return to the Knit button having other options (HTML, PDF, Word), move this output type below the first option.

References

- Halpern, B. S., Longo, C., Hardy, D., McLeod, K. L., Samhouri, J. F., Katona, S. K., ... Zeller, D. (2012). An index to assess the health and benefits of the global ocean. *Nature*. doi:[10.1038/nature11397](https://doi.org/10.1038/nature11397)
- Halpern, B. S., Walbridge, S., Selkoe, K. A., Kappel, C. V., Micheli, F., D'Agrosa, C., ... Watson, R. (2008). A Global Map of Human Impact on Marine Ecosystems. *Science*, *319*(5865), 948–952. doi:[10.1126/science.1149345](https://doi.org/10.1126/science.1149345)
- Selig, E. R., Longo, C., Halpern, B. S., Best, B. D., Hardy, D., Elfes, C. T., ... Katona, S. K. (2013). Assessing Global Marine Biodiversity Status within a Coupled Socio-Ecological Perspective. *PLoS ONE*, *8*(4), e60284. doi:[10.1371/journal.pone.0060284](https://doi.org/10.1371/journal.pone.0060284)