

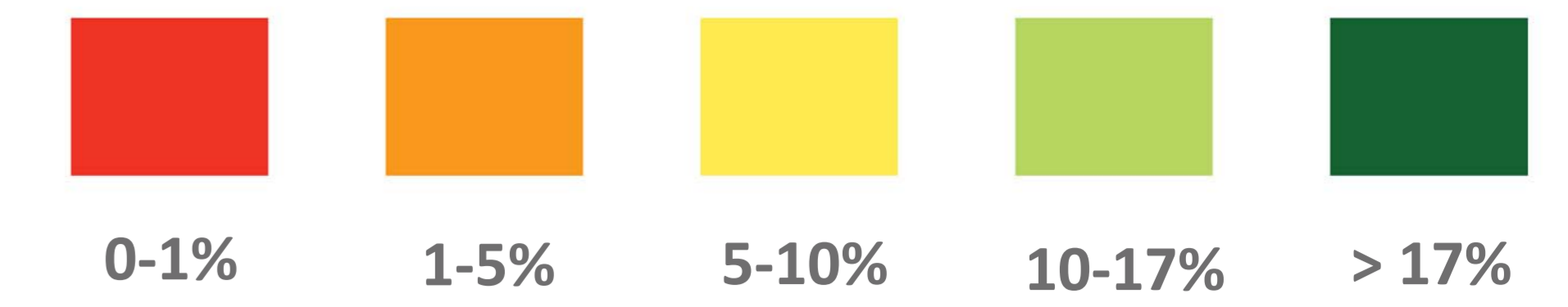
Map of protection levels for the terrestrial and marine ecoregions of the world as of January 2019.

Battistella, L., Delli, G., Mandrici, A., Bendito Garcia, E., Dubois, G. (2019)

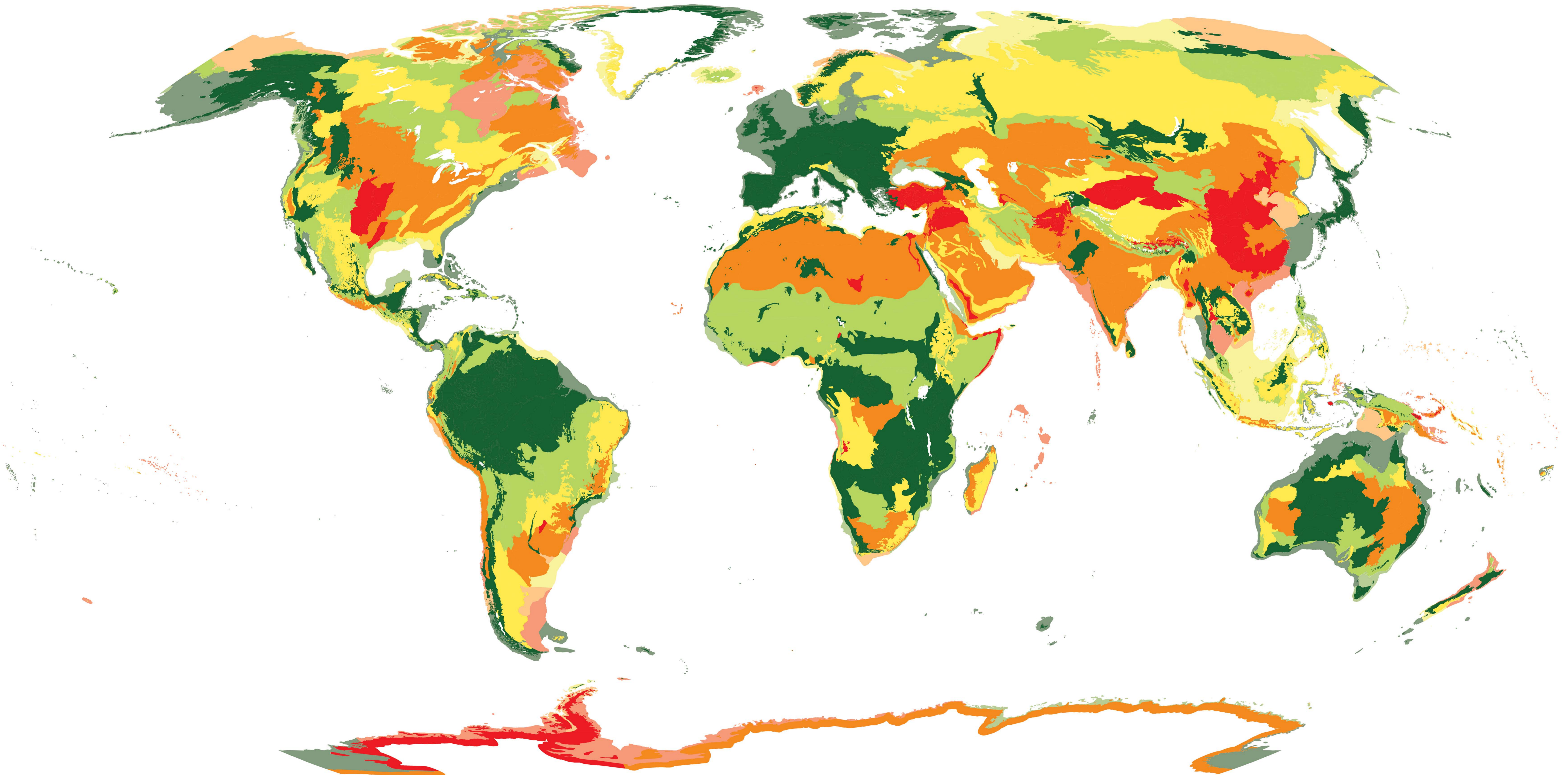
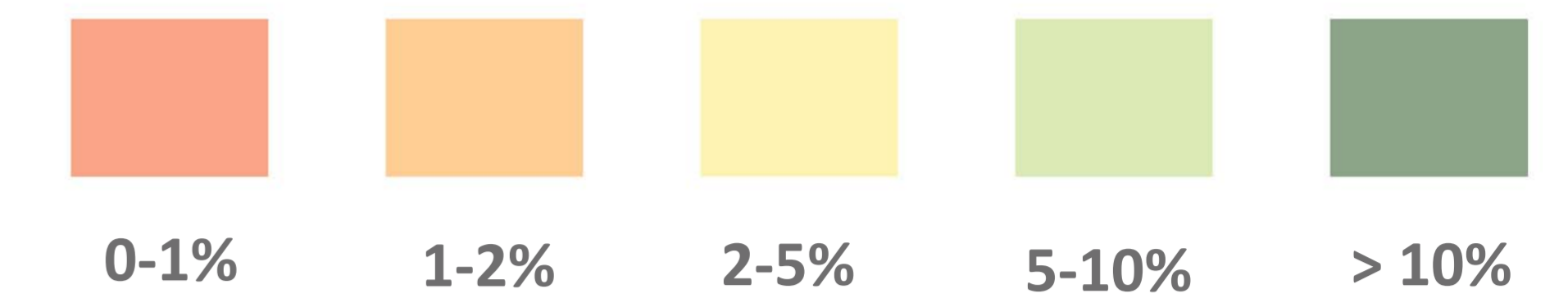
Map of protection levels for the terrestrial and marine ecoregions of the world as of January 2019. Downloadable from <http://dopa.jrc.ec.europa.eu/>

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Terrestrial ecoregions protection



Marine ecoregions protection



Description:

The map shows the percentage of coverage of the terrestrial and marine ecoregions of the world, excluding lakes, rock and ice, by protected areas. The statistics were computed using the World Database of Protected Areas (WDPA) from January 2019 and ecoregion maps defined by Olsen et al. (2001) and Spalding et al. (2007). The marine ecoregions were clipped to the coastline of the terrestrial ecoregions and an outer boundary corresponding to the 200-meter isobath (Spalding et al. 2007). The analysis used all designated protected areas recorded in the WDPA as polygons, or points with a reported area, except for UNESCO Man and Biosphere Reserves because many of their buffer areas do not meet the protected area definition of the International Union for Conservation of Nature (IUCN). All protected areas with a "proposed" or "not reported" status in the WDPA were excluded from the analysis. Points were buffered with a circular buffer corresponding to their reported area. Buffered points and polygons were then combined and all spatial overlaps between protected areas removed to avoid double counting.

References:

IUCN and UNEP-WCMC (2019). The World Database on Protected Areas (WDPA), January 2019. Cambridge, UK: UNEP-WCMC. Available at: www.protectedplanet.net

Olsen, D.M. et al. (2001). Terrestrial ecoregions of the world: a new map of life on Earth. *BioScience*, 51(11): 933-938.

The Nature Conservancy (2012). Marine Ecoregions and Pelagic Provinces of the World. GIS layers developed by The Nature Conservancy with multiple partners, combined from

Spalding et al. (2007) Marine ecoregions of the world: A biogeographical classification of coastal and shelf areas. *BioScience* 57: 573-583. and Spalding et al. (2012) Pelagic provinces ecoregions of the world: A biogeographical classification of the world's surface pelagic waters.

Ocean & Coastal Management 60: 19-30. GIS DATA (the non-cut on the coastline version has been used) downloaded on 20160720 from <http://data.unep-wcmc.org/datasets/38>

