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05.20.2022

Spatial Representation of WA Tribal Usual and Accustomed Areas. R Code included in the .zip file.

**Data Sources:**

* UA boundaries: <http://resource-analysis.com/wp-content/uploads/2018/10/Usual-and-Accustomed-Fishing-Areas_20121022.pdf>
* UA boundaries also from federal register: <https://www.law.cornell.edu/cfr/text/50/660.4>
* US EEZ shapefile
* NOAA NGDC/NCEI 3 arc-second bathymetry (<https://gis.ngdc.noaa.gov/arcgis/rest/services/DEM_mosaics/DEM_all/ImageServer>)

**General Steps:**

* For each tribal U&A, create a coarse box based on its official description
* Mask with the US EEZ to “mask out” the coastline and, for Makah, to impose the northern, northwestern, and eastern boundaries (cutoff by the Straight of Juan de Fuca and the Canadian/US EEZ boundary)
* Join individual polygons together to make combined dataset. Note: Tribal U&As overlap with one another.

**For version cropped by depth:**

* Using hi-res bathymetry as a raster dataset, create a mask, only retaining cells that are *shallower* than 700 fathoms (1280.16 meters).
* Use the bathymetry mask on the polygons created above to “mask out” areas that are too deep for trawling.

Both versions of U&As saved as shapefiles.