Readme for grid-prep folder in raimbow repository

Folder: <https://github.com/jameals/raimbow/tree/master/prep>

Todo: make all of this happen in a single Rmd document for a single crank to turn

Prep for risk assessment analyses

1. Clip land from the 5km grid cells for accurate area (and thus accurate density) calculations
   1. File: Grid5km\_landerase.R
2. Determine the study area, aka which 5km grid cells have (ever) had fishing effort
   1. File: Grid5km\_studyarea.R
3. Determine the associated CDFW large block number and region for each 5km grid cell in the study area.
   1. File: Grid5km\_key.R
   2. Todo?: Add in BAND\_25KM and BAND\_50KM identifiers (any others?)
      1. The proposed regs from CDFW include 5-6 management zones. I would like to add those.
4. Determine the which grid cells are in humpback (Mn) and/or Blue (Bm) BIAs
   1. File: Grid5km\_BIA\_overlap.R
   2. Of note, this information is already included in the fishing data
5. Get the depth for each grid cell
   1. File: Grid5km\_depth.R
   2. Simply reads in Blake’s CSV file and saves it as an RDS file
6. Prep whale data to be fed into risk\_mgmt()
   1. File\_Grid5km\_whale\_values.R
   2. Filter whale predictions for grid cell IDs in the study area, and convert humpback values to abundance. Full join the whale data, by grid cell ID and year-month
   3. Output contains column area\_km\_lno (for calculating density, etc.)
   4. Output does not include info columns, e.g. Region, to not cause issues when joining with fishing data. The user must join the output with Grid\_key\_region.rds themself
   5. Use the output from this script 1) to look at monthly whale values by region (post-joining), 2) to plug into risk\_mgmt(), etc.