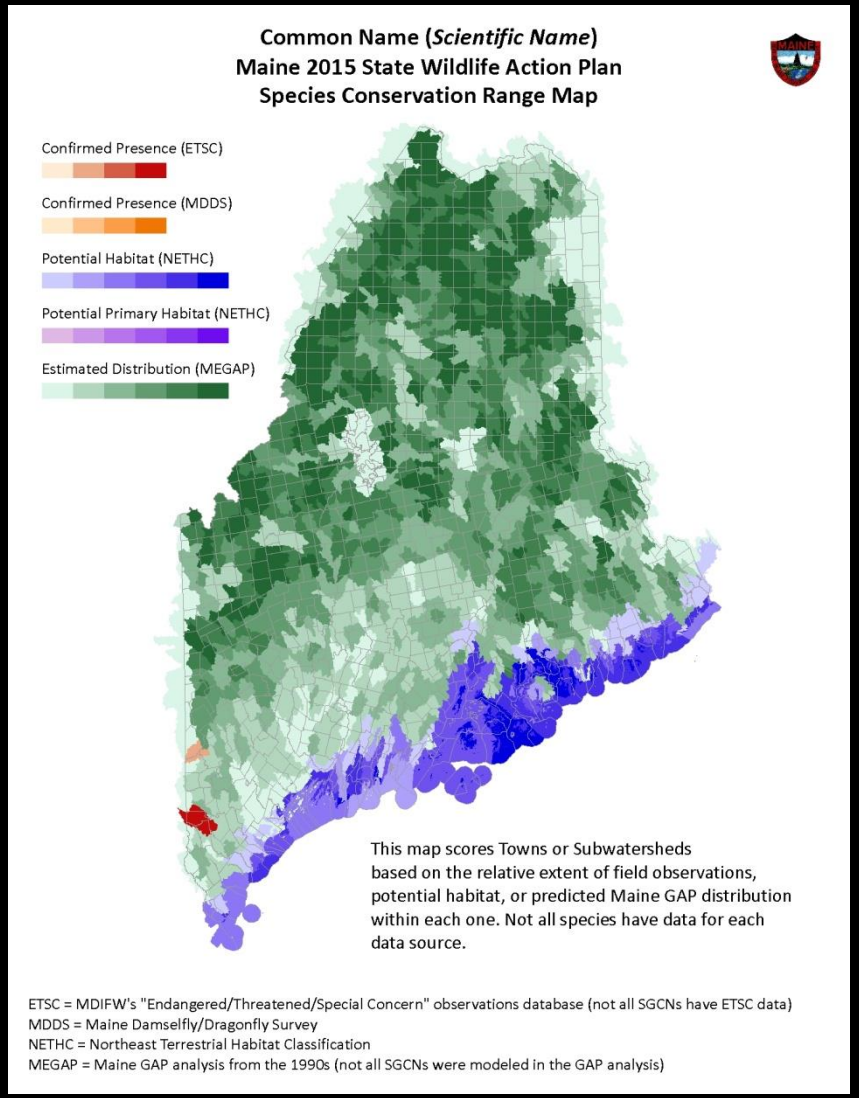
"Species Conservation Range" Maps – SWAP 2015
January 2015 Partners' Meeting Update

- Identify Towns/HUC12 Subwatersheds where conservation actions might benefit depicted SGCN based on where it or its habitat occurs
- Similar to, but NOT a species "range" or "distribution" map
  - For many species we lack sufficient survey data
  - We are not doing sophisticated habitat modeling (yet?)



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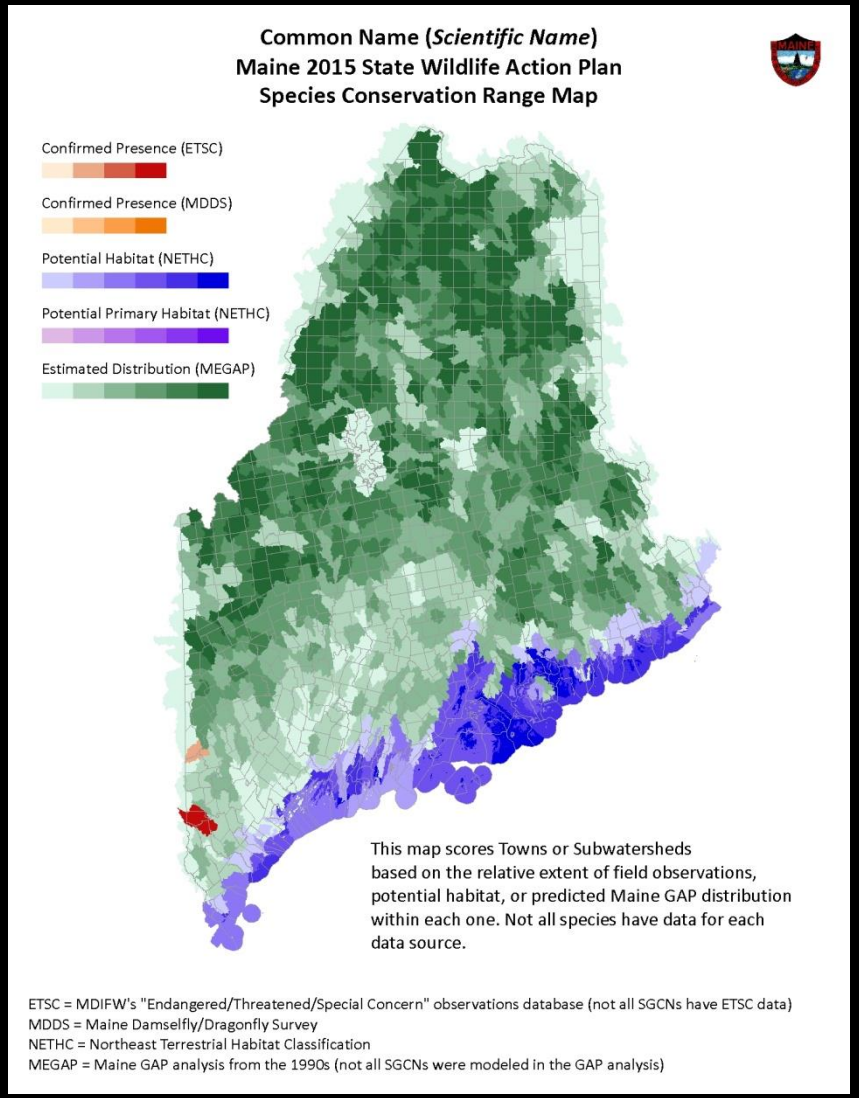
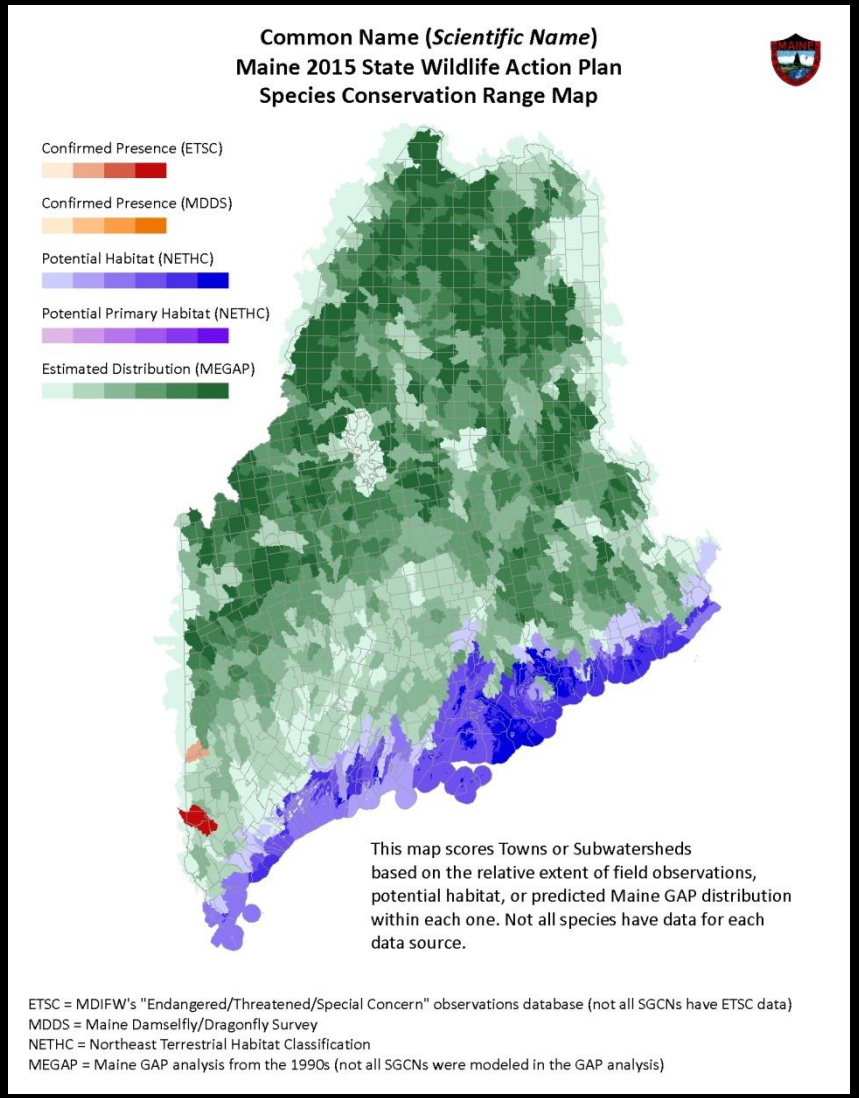
INPUT DATA:

- Observation Data:
  - IFW Endangered, Threatened, & Special Concern (ETSC) database
  - Damselfly/Dragonfly Survey
  - Butterfly Survey
  - MARAP
  - Mussels
- Maine GAP predicted distributions
- Associated Habitats
  - All Associated Habitats
  - Only Primary Associated Habitats



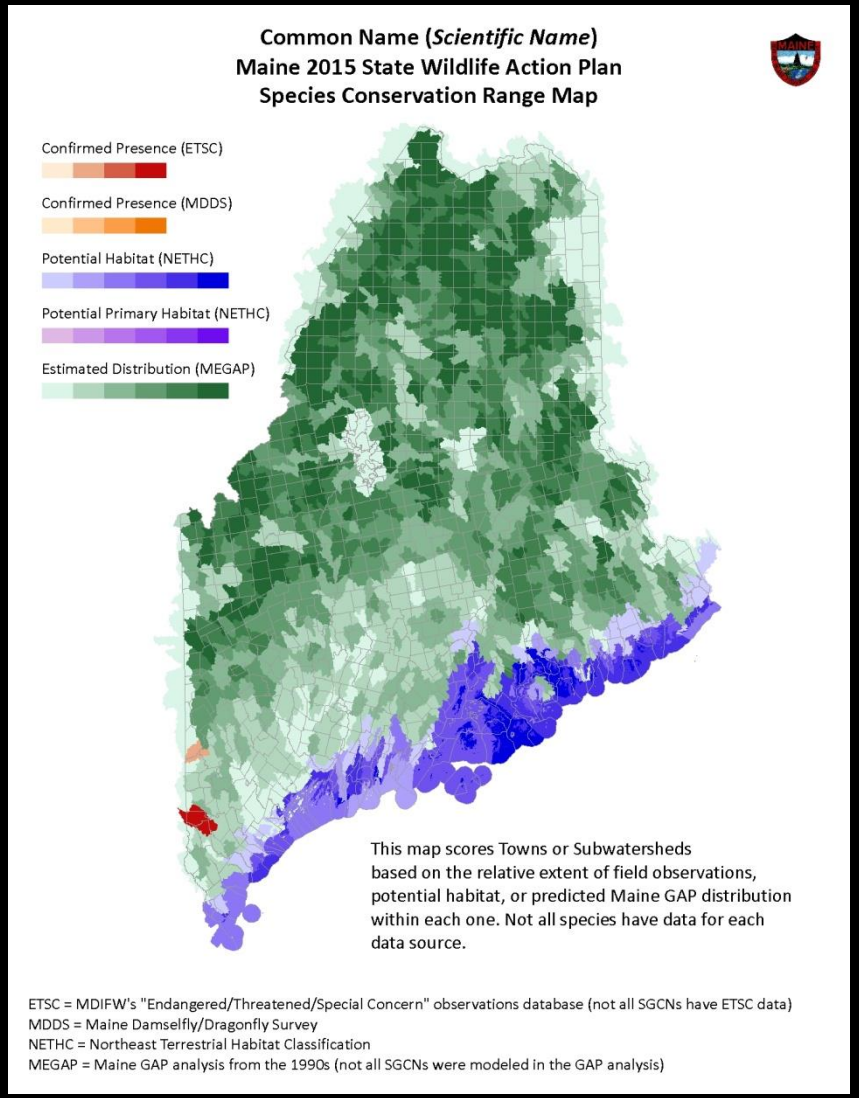
"Species Conservation Range" (SCR) Maps Process

- For each species and input data layer, "scores" Town/Subwatershed based on percent overlap with the input data
- Automatically generates PDF maps
- Each input layer can be toggled on/off within the PDF to explore areas of overlap
- Need to review maps to determine potential improvements to the process and additional input data
- Then we need to review maps to determine if they make sense for each species



"Species Conservation Range" (SCR) Maps
STATUS - COMPLETED

- ✓ Overlay ETSC observations with Towns and Subwatersheds for each SGCN
- ✓ Overlay Maine GAP distributions with Towns and Subwatersheds for each SGCN
- ✓ Reconcile discrepancies between Element II habitat associations (NETHC) and NALCC ESMPLUS GIS map
- ✓ Overlay associated habitats with Towns and Subwatersheds for each SGCN
- ✓ Generate draft PDF maps
- ✓ Link maps to SGCN records in database
- ✓ Process to incorporate Damselfly/Dragonfly Atlas data
- ✓ Process to restrict habitat associations to primary habitats



"Species Conservation Range" (SCR) Maps
STATUS – TO DO

- Maine Butterfly Survey, MARAP, Mussel Data – create GIS map from coordinates, develop overlay process, and run it
- Other observation data sets? *Observation data is pretty easy to incorporate if data is consistent*
- Filter habitat associations by ecoregion? Will require linking each SGCN to ecoregions
- Rebuild maps
- Review maps