The PIFSC Fishery Ecosystem Assessment Tool and Potential Contributions to the Kona IEA

Prepared for the

Kona IEA Symposium 2014

by

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Background

- FEAT is a Geographic Information System (GIS) that integrates many types of data to enable spatiotemporal analysis and visual representation of fishing activity and socio-demographic attributes of fishery participants

- Originally developed with FME software (high interoperability); ESRI has now attained similar interoperability

- PIFSC is now reconfiguring FEAT as an ARC-GIS desktop application

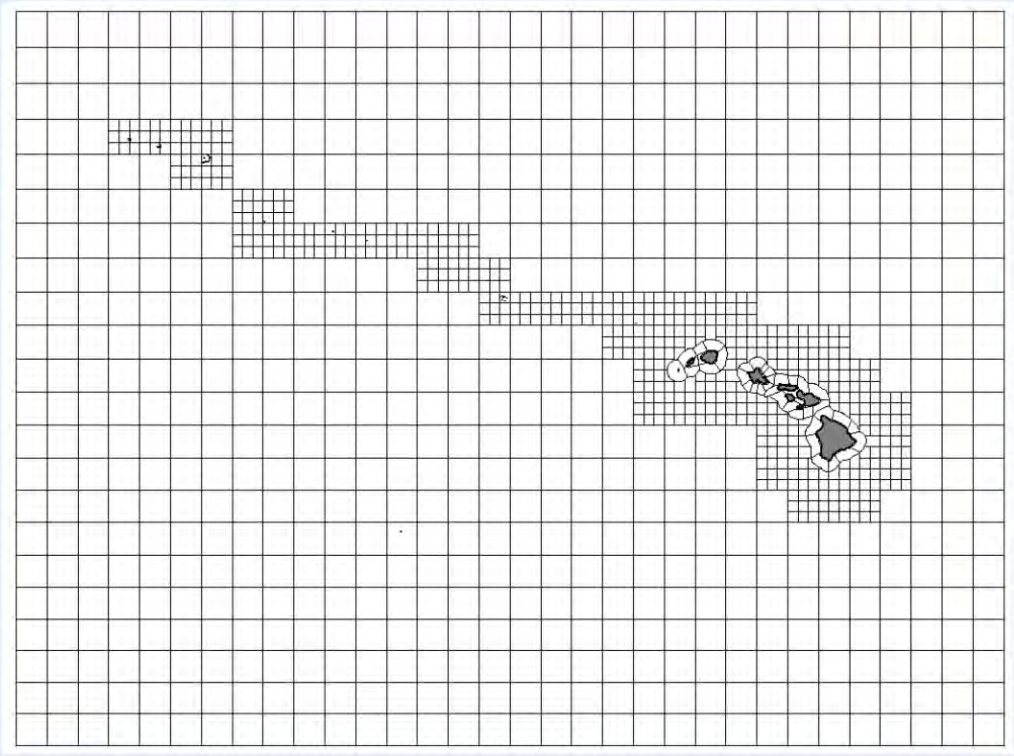
- [In-Progress]

Dieter and Glazier 2014

HDAR Commercial Fisheries Data

Commercial Fisheries Reporting

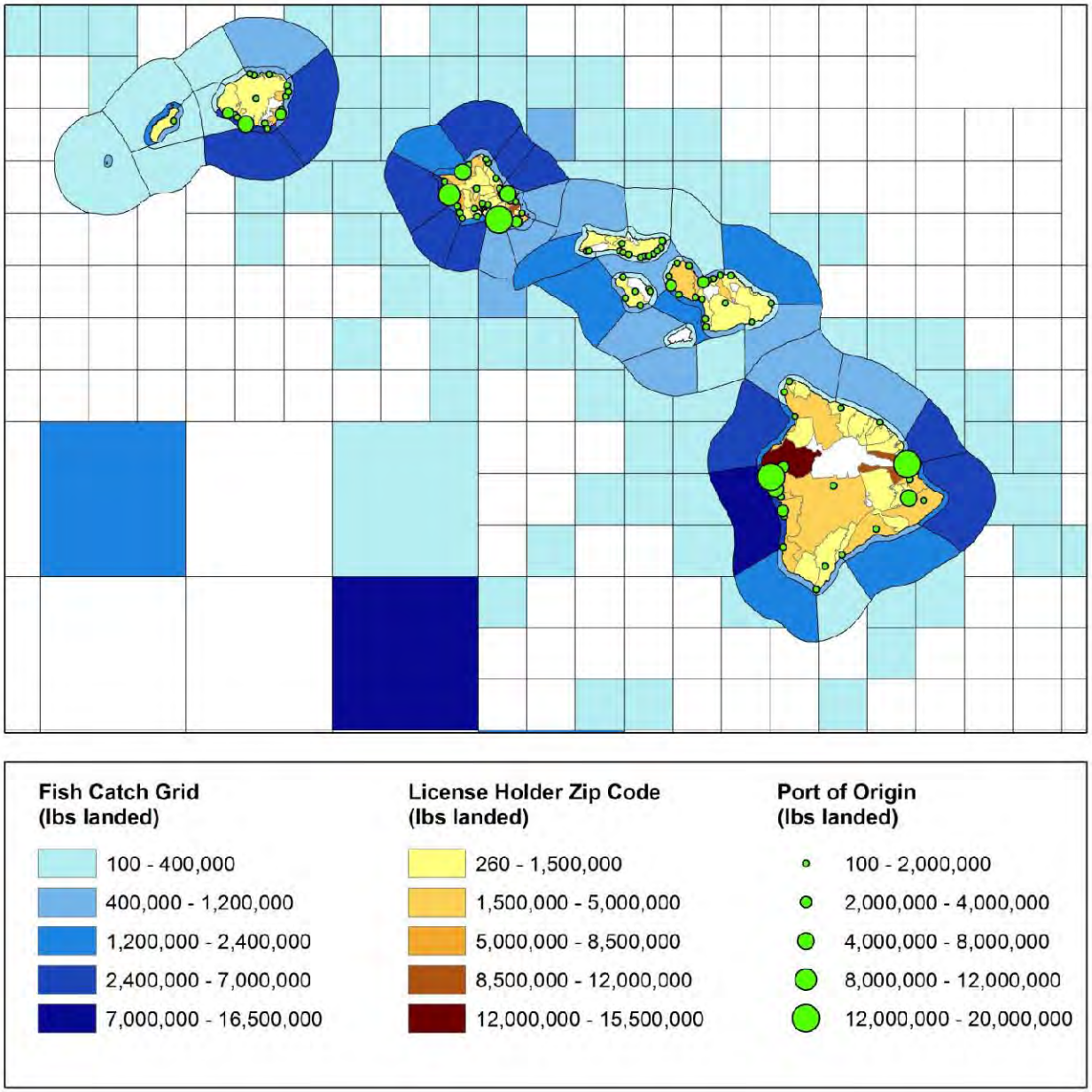
- 1.5 million reports since 1996
- Extent non-reporting unknown
- Reports contain:
  - -Grid ID block number
  - - Type of gear
  - - Species landed
  - - Date of capture
  - - Port of origin
  - - Zip code of license holder
  - - Confidential data!
- State and federal waters
- Scale of grid blocks precludes detailed site-specific analysis
- Three or more reports needed



Dieter and Glazier 2014

Output Example:

- All MHI
- All gear & species
- 1996-2014
- Volume of landings:
  - Kona Coast & Cross Seamount;
  - Windward/Leeward Oahu
  - Kona side of Kauai
  - Hilo side

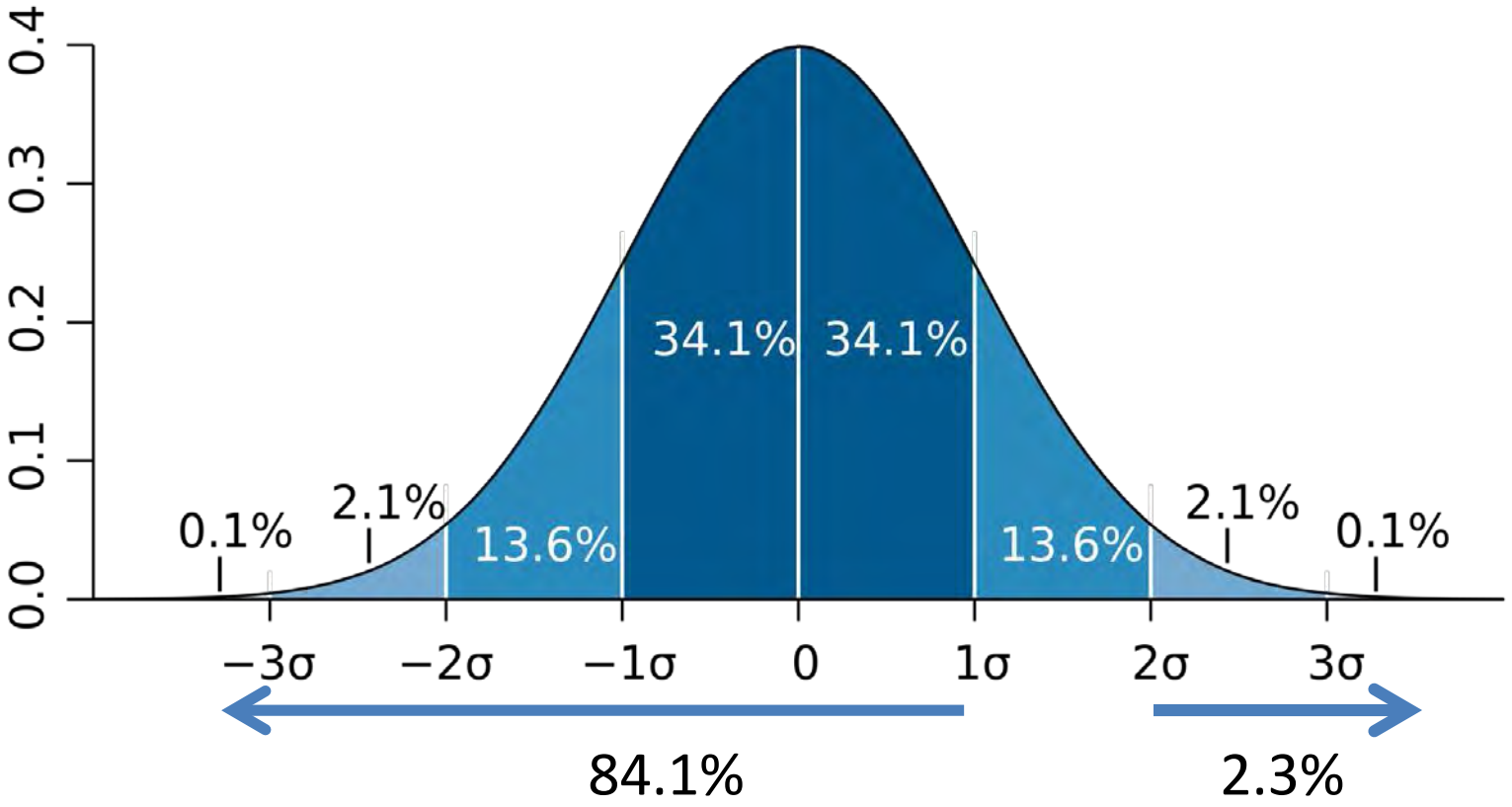


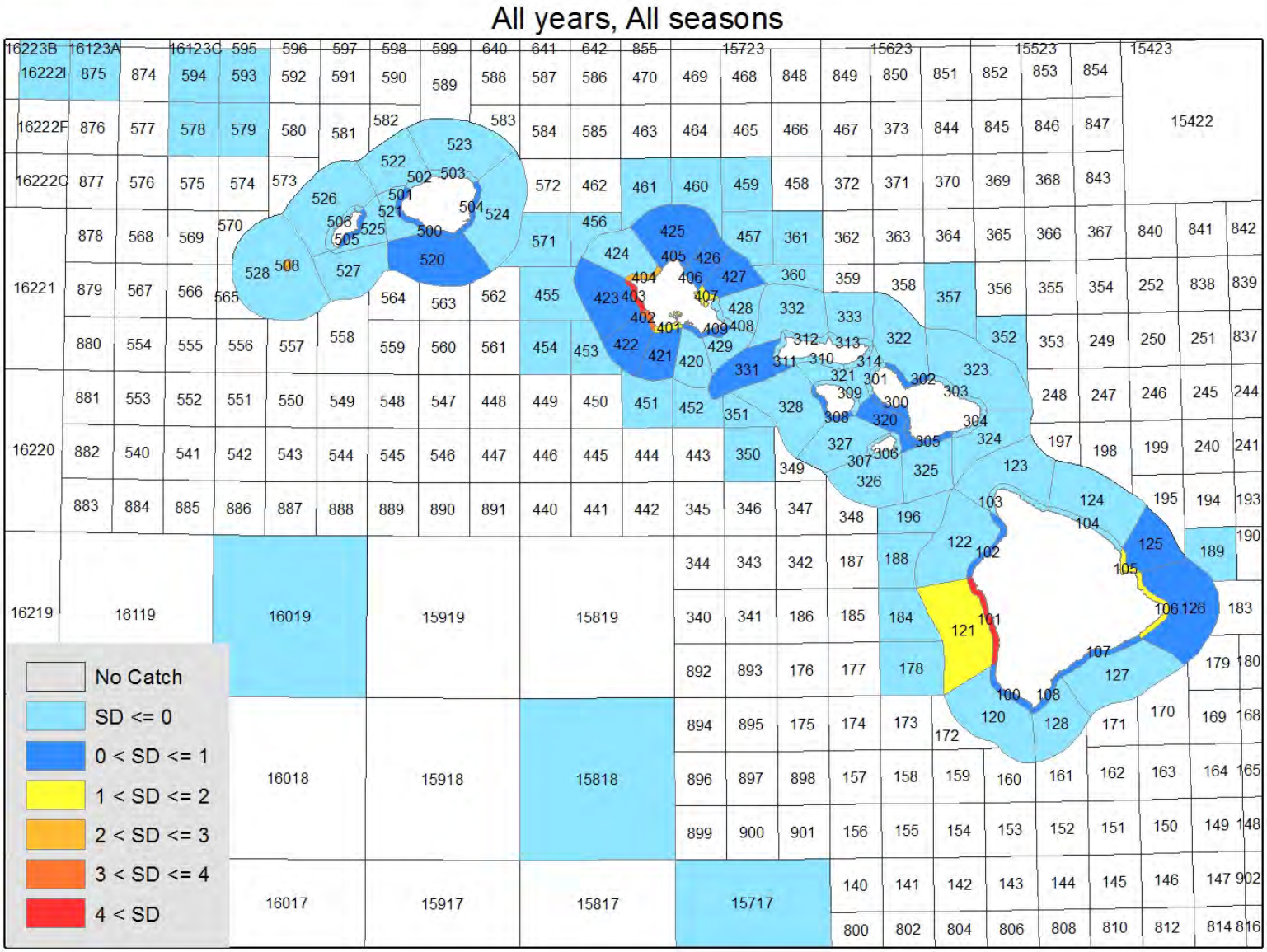
Dieter and Glazier 2014

Preliminary Analysis of Hawai‘i Division of Aquatic Resources Commercial Fisheries Data to Assess Potential Overlap with False Killer Whales

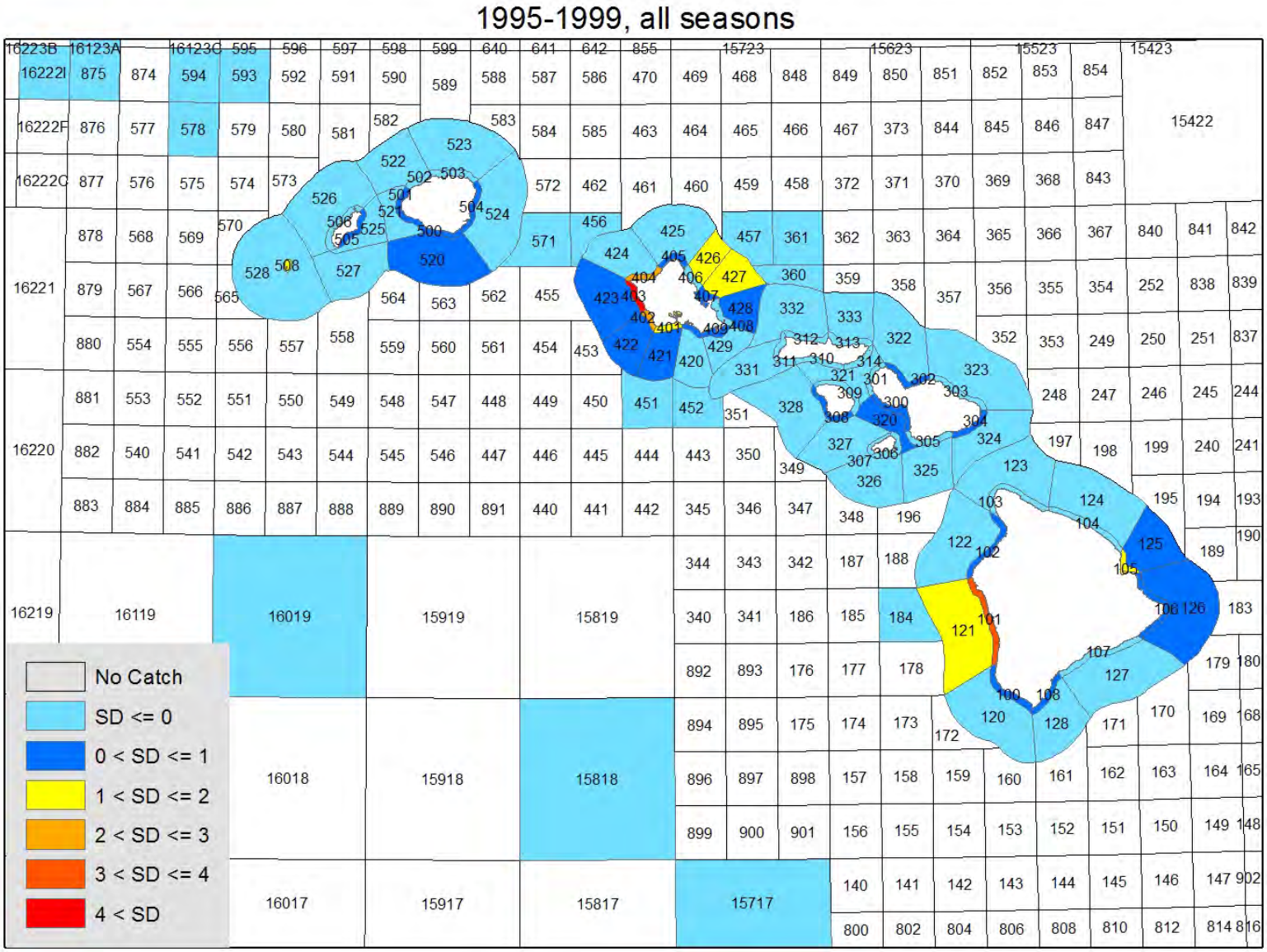
David B. Anderson & Robin W. Baird

Presentation to the FKW TRT, May 1, 2015

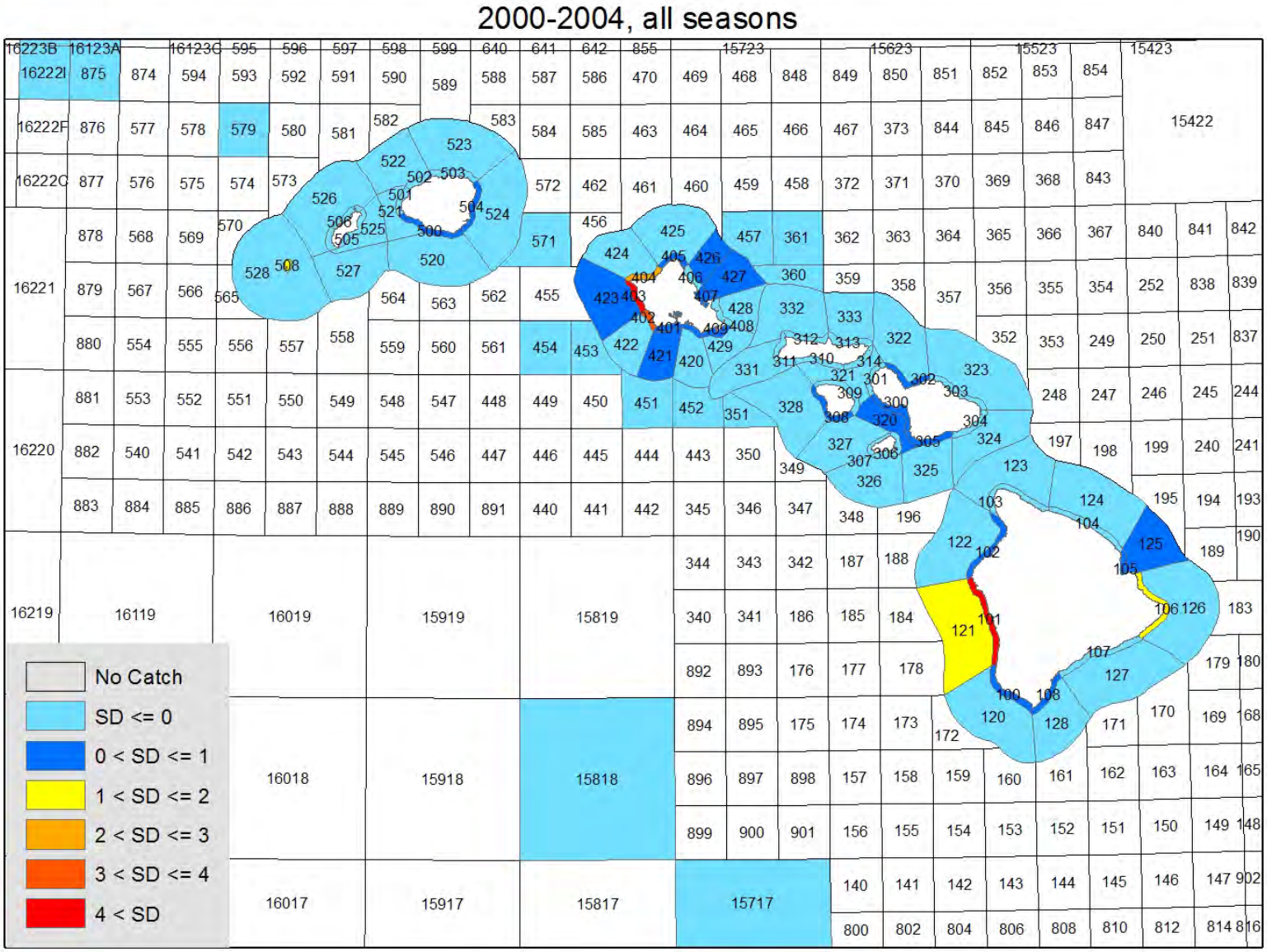




Anderson and Baird, in progress



Anderson and Baird, in progress



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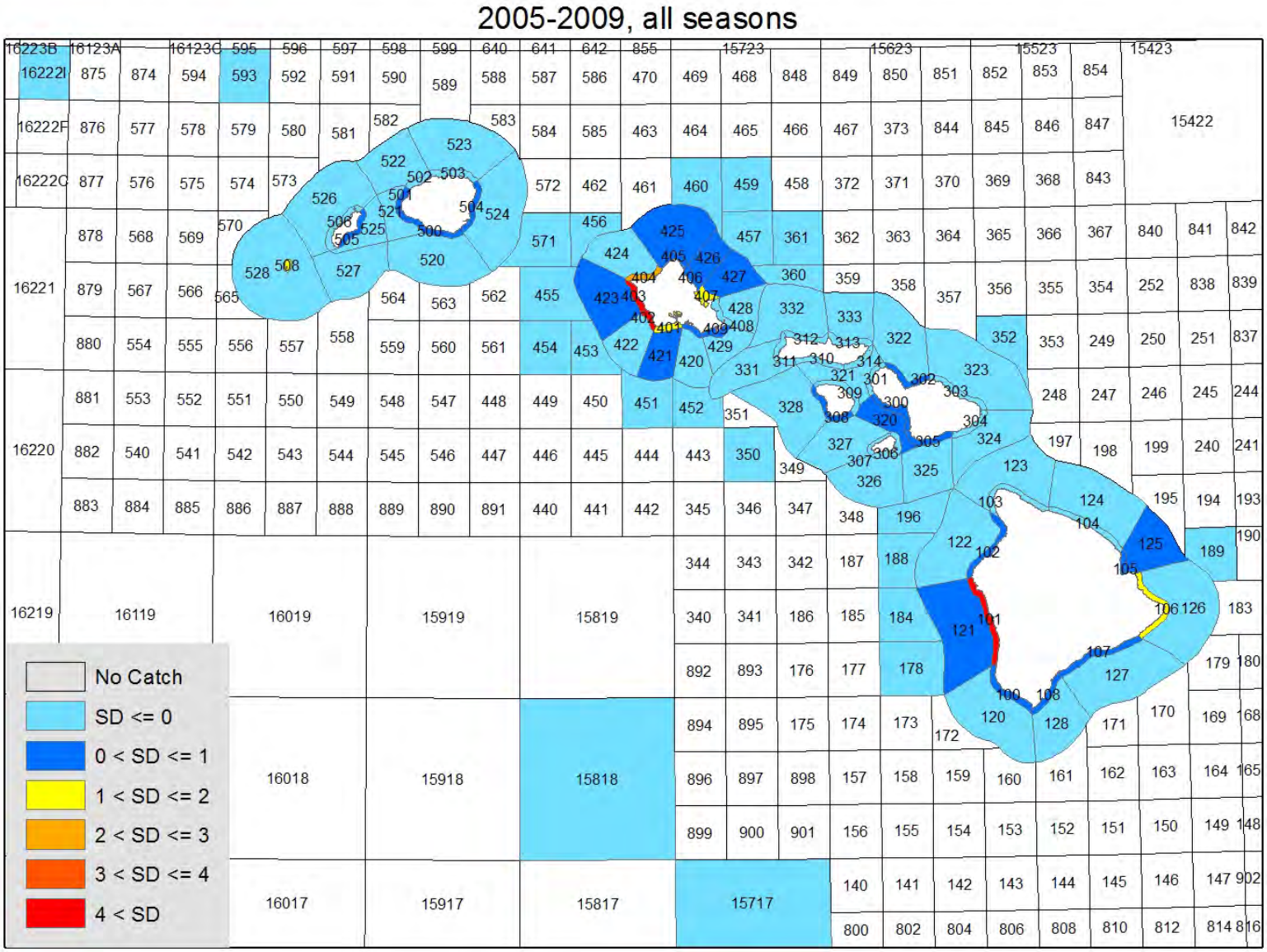
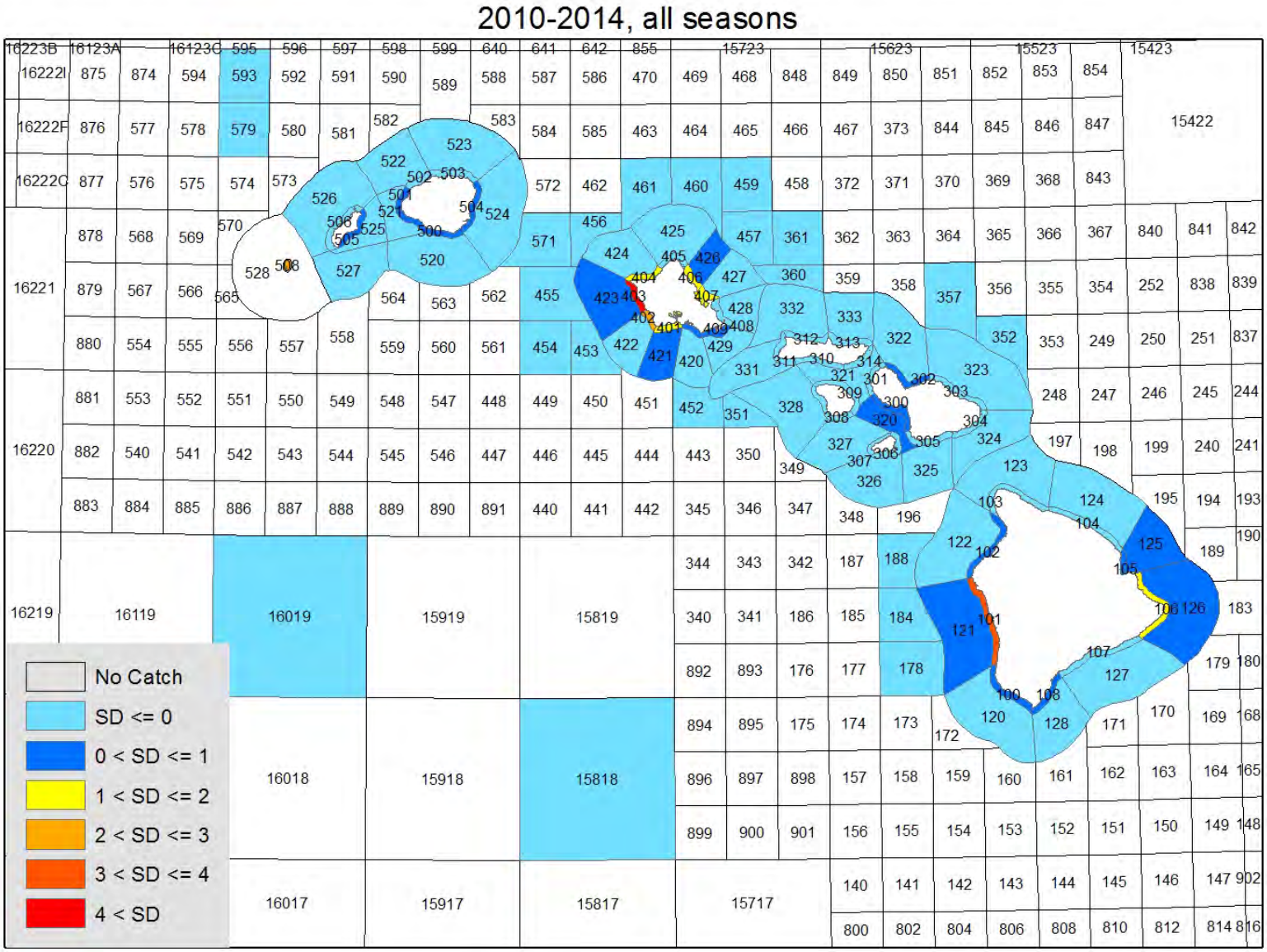


Anderson and Baird, in progress



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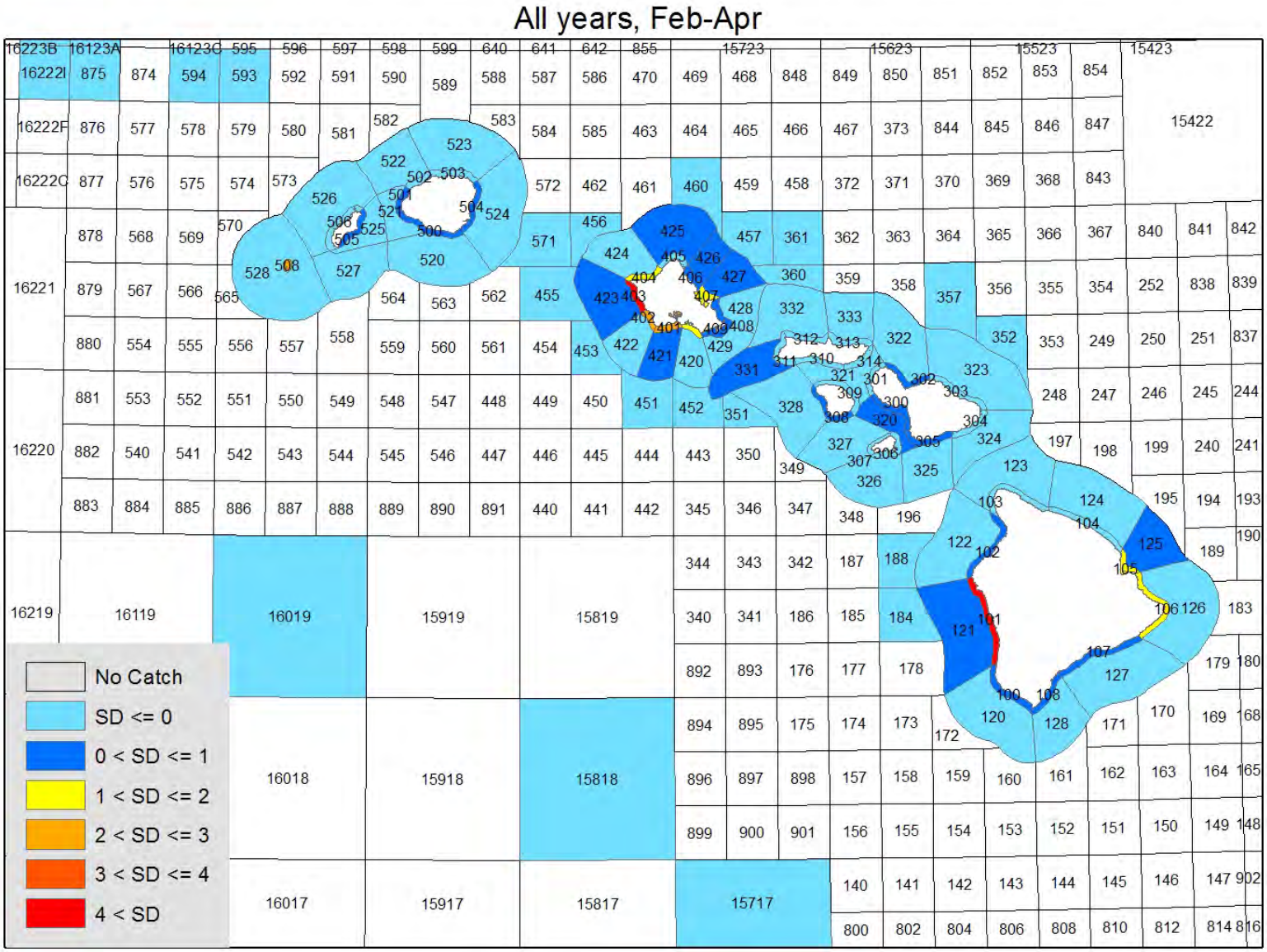

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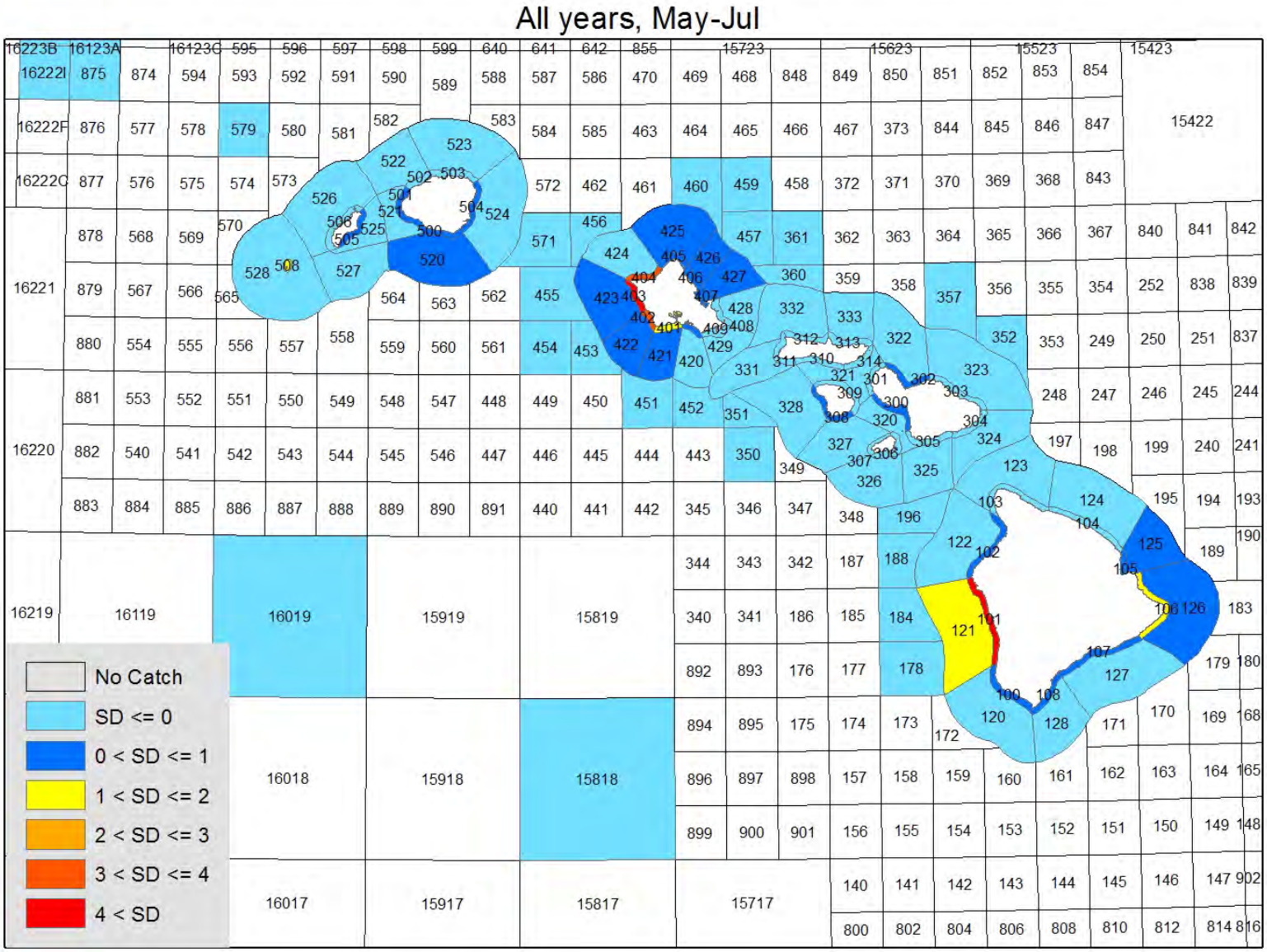

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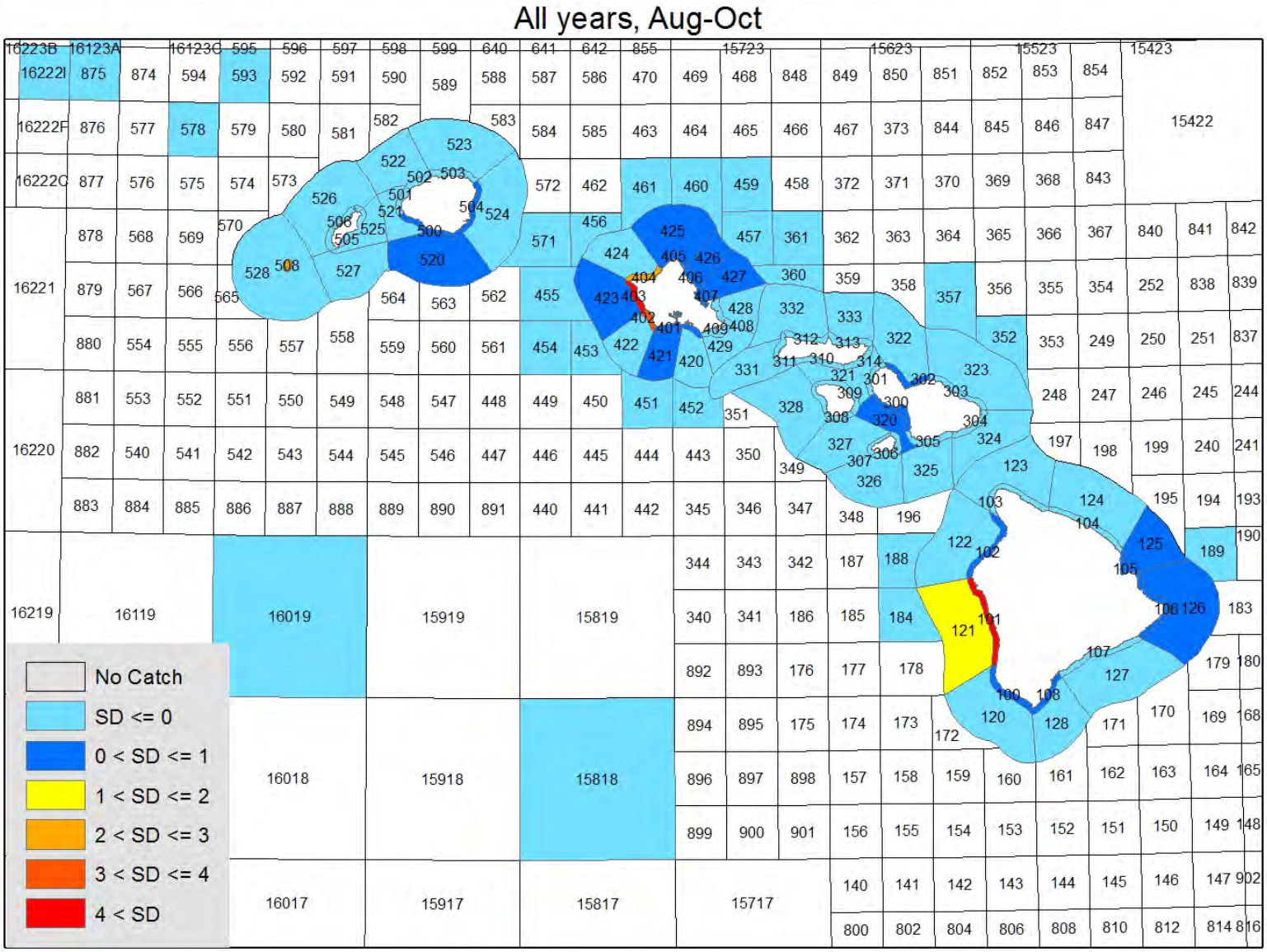

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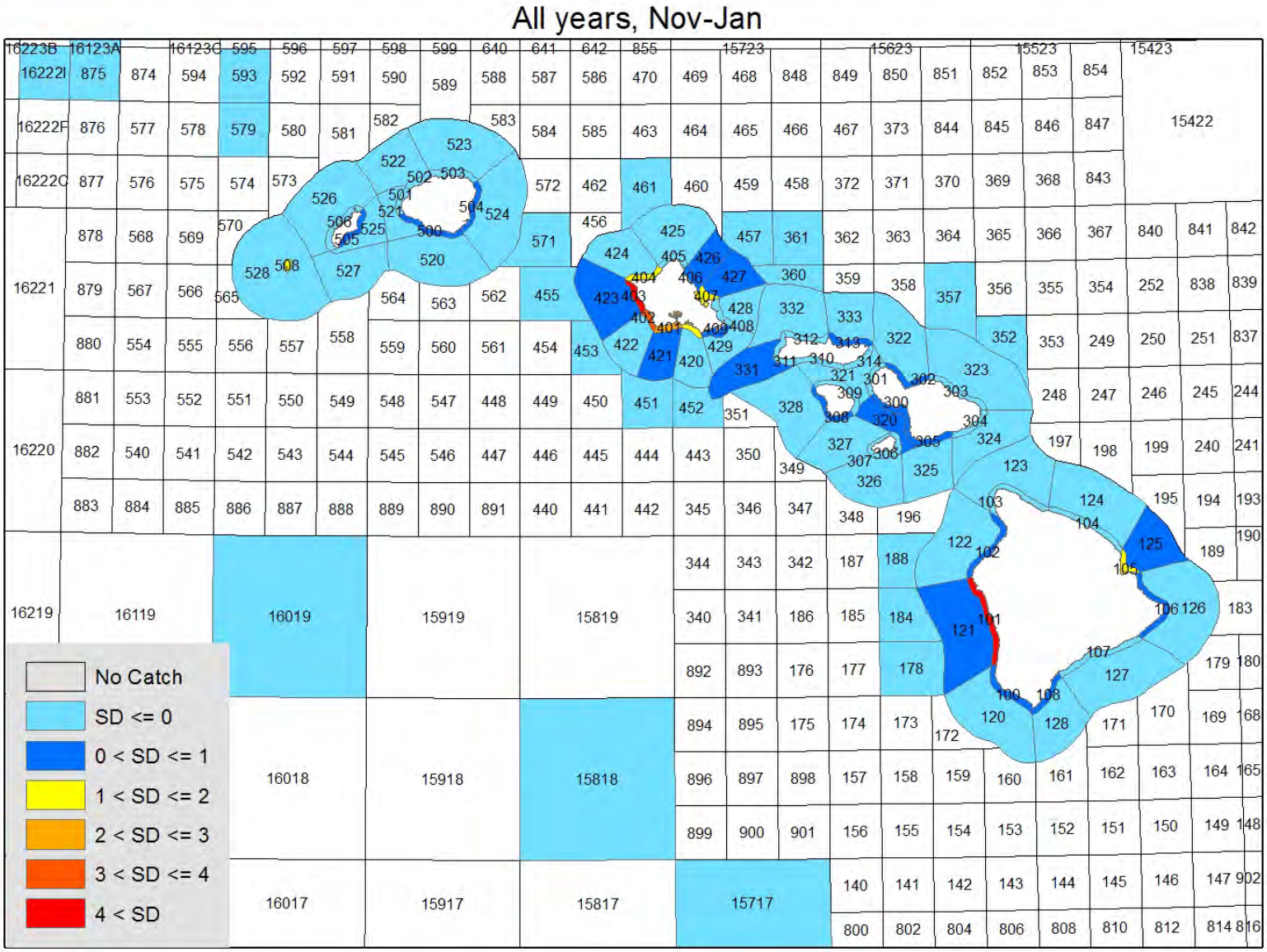

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