

# ASIS -Atlantic Salmon Information System (Databases)

Where we are & how we got here...

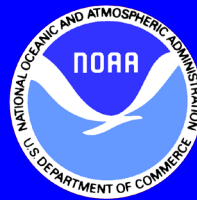
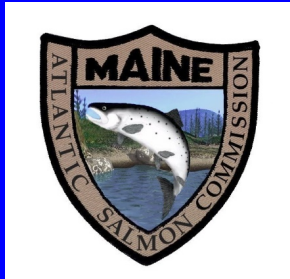
Justin Stevens

Maine Sea Grant



Marine Science for Maine People

# **Building functional Salmon Databases in a GIS universe [2001]**



**Kenneth F. Beland, Joan G. Trial**

**Maine Atlantic Salmon Commission**

**Martin Anderson, John Kocik**

**National Marine Fisheries Service**

**Jed Wright**

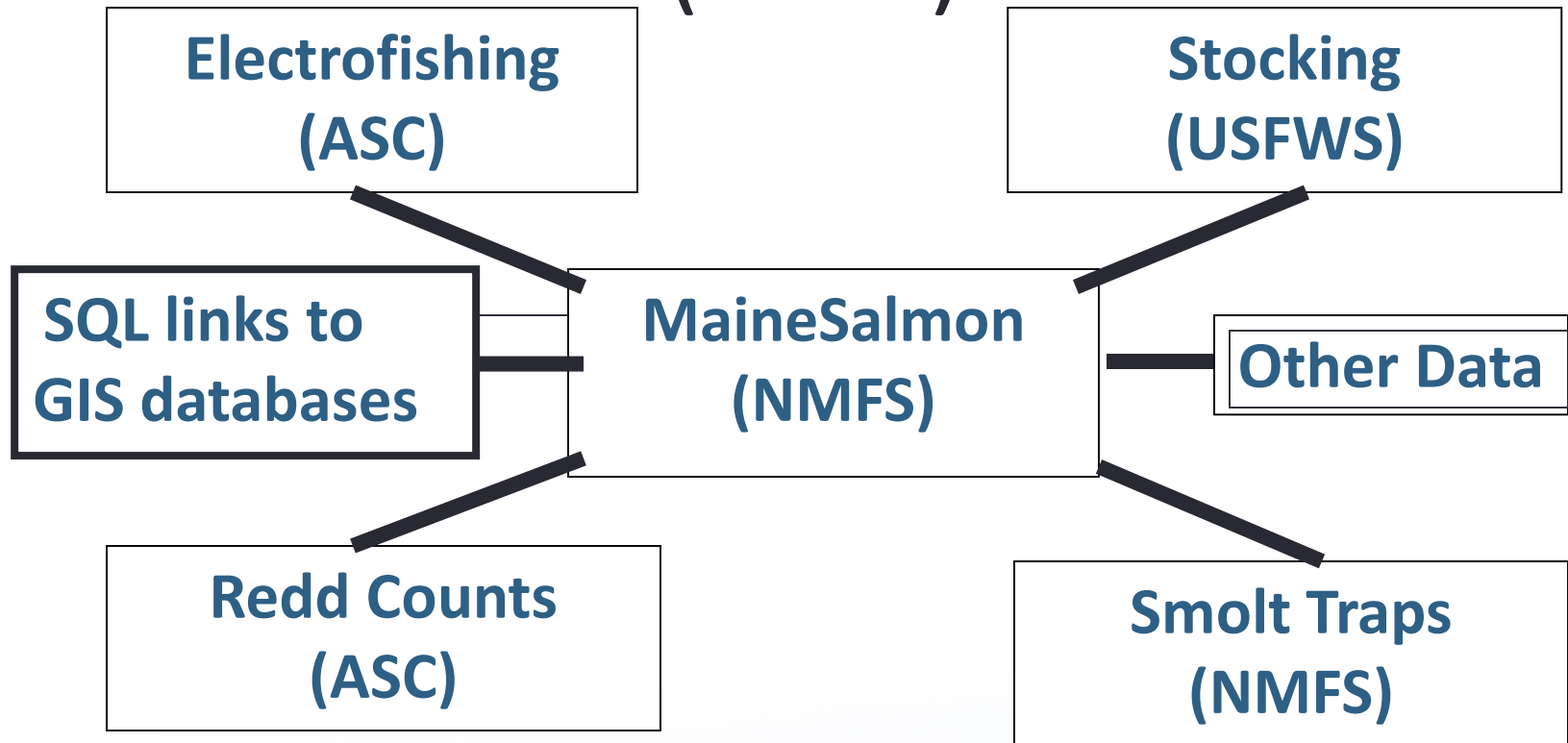
**U. S. Fish and Wildlife Service**

**and: a cast of thousands (ok- many others)**

# Interagency database system- *guiding principles*

- **ASC, NMFS, and USFWS agree on database software – Microsoft Access**
- **Adoption of RiverKM based site coding conventions**
- **Use library of standardized site codes, place names, life stage definitions, etc.**
- **content updates are coordinated through a database steward(s)**

# Atlantic Salmon Data System (2001)



# Database Working Group

- **Formed during TAC (~2001??)**
- 
- **Members from USFWS, NOAA, DMR**
- **Communication platform for database development, improvement, maintenance**
- **Ensured consistency, transparency, accountability, accessibility**
- **Last met in 2010...**

# What has happened in 10 years?

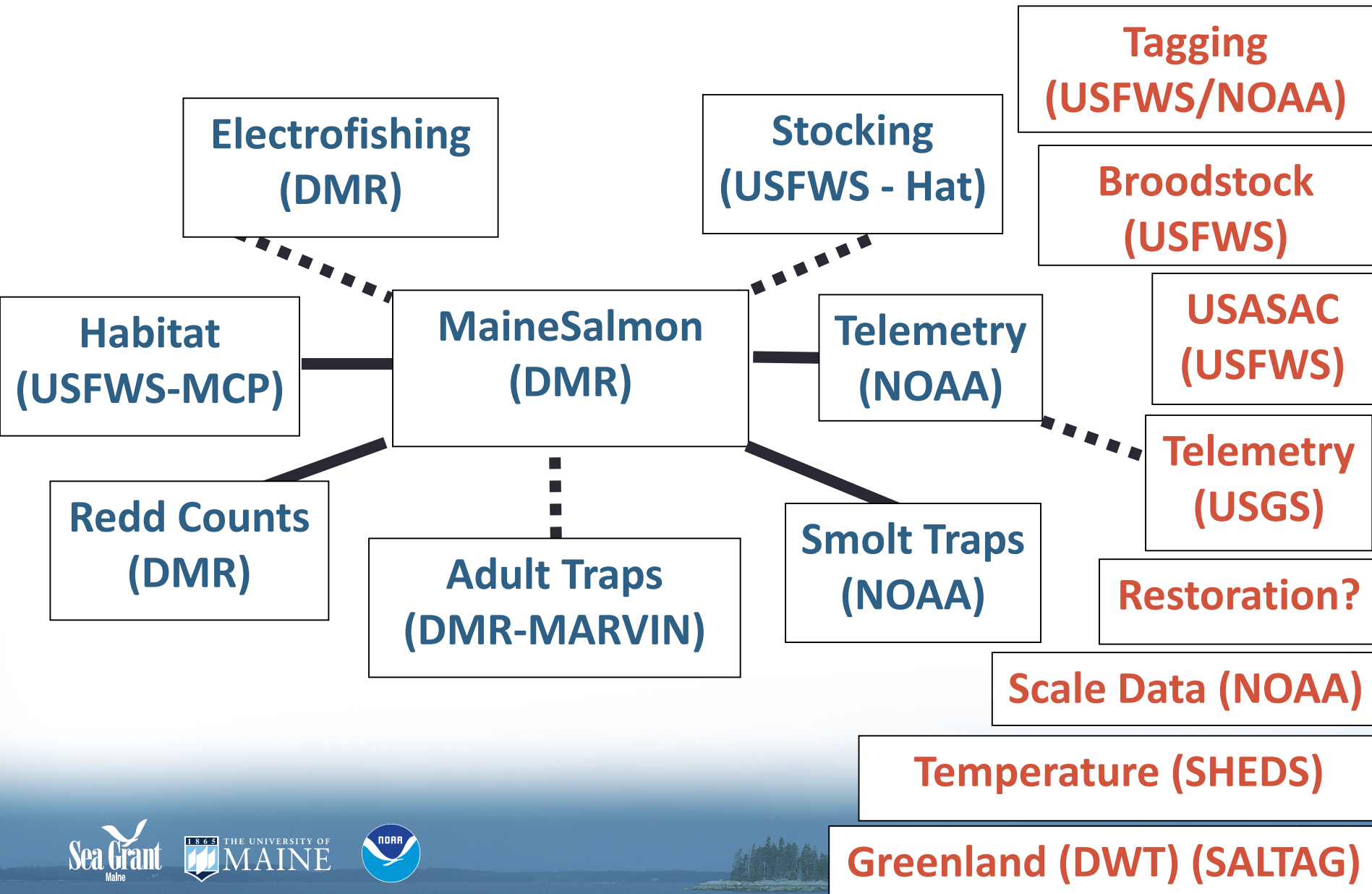
- **My assessment....**
  - **Interviewed key personnel from NOAA, FWS, and DMR to understand current state of databases, dataflow, and how these impact Salmon management**
  - **October 2019-January 2020**
  - **My involvement as database steward for DMR (2000's) and NOAA (2010's)**



# What has happened in 10 years?

- **Budget cuts & attrition = loss of institutional memory**
  - **Data management became more work for less people**
  - **Programmatic shift away from collaboration**
- **Databases are losing functionality, integrity, and accessibility**
  - **Loss of CMS website**
  - **DMR move to Oracle system**
  - **USFWS discontinuation of stocking database**
  - **NOAA –DMR deliverable oriented Coop**

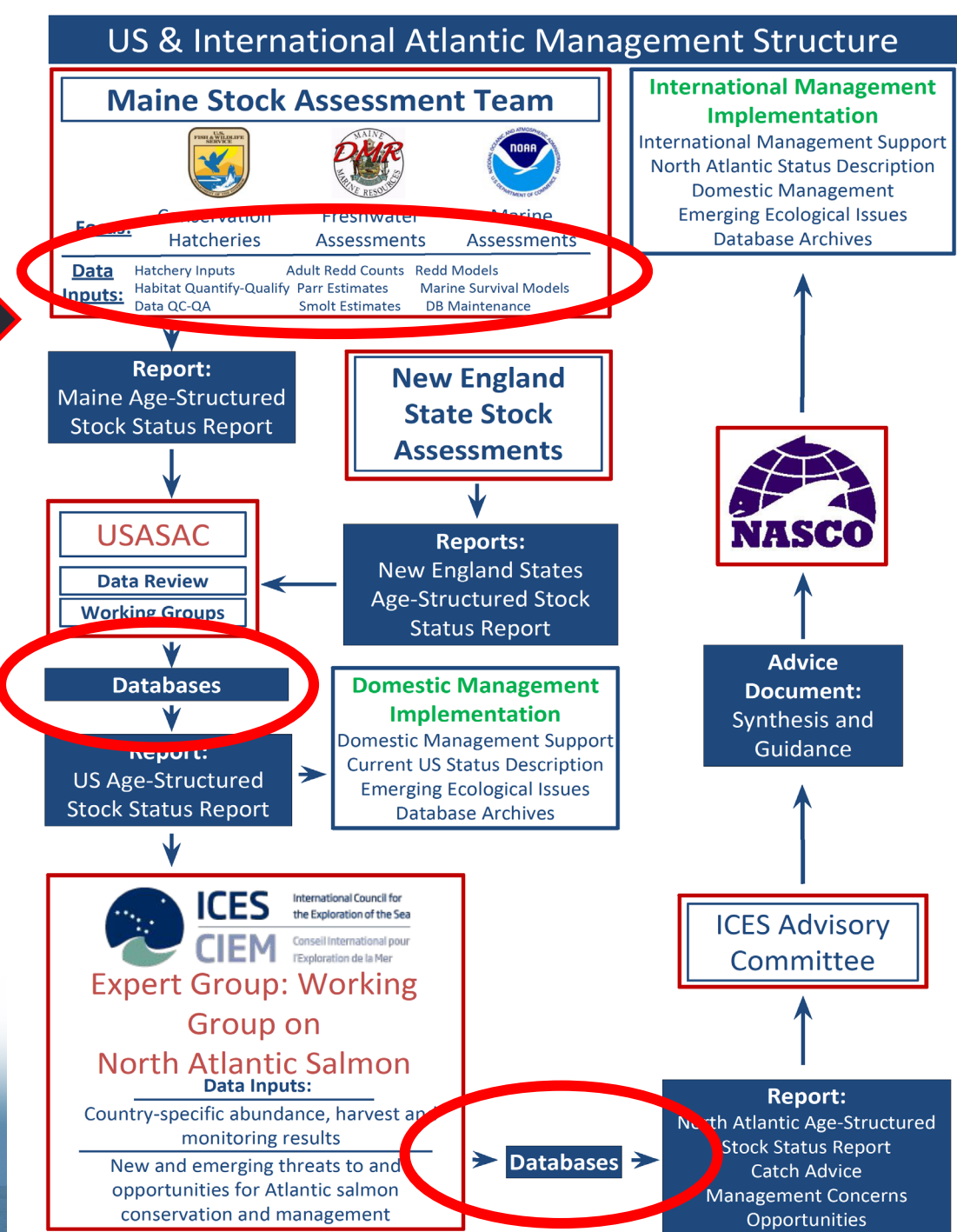
# Atlantic Salmon Data System (2020)





# Example Data Flow

- **Assessment**
- **Recovery**
- **Regulatory**
  - **FERC**
  - **ESA**
  - **NEPA**
- **Processes all rely on functional dataflow!!**



# Suggestions

- **Acknowledge & prioritize the role of dataflow in Recovery**
  - **Data need consistency, transparency, accountability, accessibility**
  - **Poor dataflow will hinder recovery**
- **Recognize standing committee on Databases & data management**
  - **Inclusive – Involvement by all agencies**
  - **This is not happening organically**
- **Restructure resources (FTE's) for the effort (include redundancy)**
  - **This is a lot of work to do right**

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## Questions?

RECORDS  
RETENTION

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EASIER WHEN I REALIZED  
THAT NOBODY EVER  
ASKS FOR ANYTHING  
BACK.