

## CLIMATE VULNERABILITY ASSESSMENT REPORT

As part of National Marine Fisheries Service's (NMFS's) Climate Science Strategy and the Western Regional Action Plan for the California Current Ecosystem (CCE), Northwest and Southwest Science Centers' staffs have completed two climate vulnerability assessments. The first – an assessment of vulnerability of the Council's fishery management plan (FMP) species and Endangered Species Act (ESA)-listed marine species – uses NMFS's Climate Vulnerability Assessment Methodology. (Attachment 1 is a NOAA Technical Memorandum describing the methodology.) The second – an assessment of the vulnerability of all ESA-listed salmonid evolutionarily significant units (ESUs) on the west coast and four comparison unlisted ESUs – uses a tailored methodology that includes appropriate life history and freshwater considerations. These rapid climate vulnerability assessments combine expert opinion and climate model outputs to quantify sensitivity and exposure of key managed fish species, which can be used as a basis for management decisions and to prioritize future research by the agency and its partners. The assessments can also provide decision-makers with information on the relative vulnerability of fish species overall and with respect to particular climate stressors. Assessments are planned for all regions; so far the [Northeast Fish and Shellfish Climate Vulnerability Assessment](#) has been completed.

Dr. Michelle McClure will report on the west coast assessment methodology and its results.

### **Council Action:**

### **Council Discussion and Comments as Appropriate.**

### Reference Materials:

1. Agenda Item I.1, Attachment 1: Methodology for Assessing the Vulnerability of Marine Fish and Shellfish Species to a Changing Climate.

### Agenda Order:

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|---|------------------|
| I.1 Climate Vulnerability Assessment Report                             | Kit Dahl         |
| a. California Current Ecosystem Climate Vulnerability Assessment Report | Michelle McClure |
| b. Reports and Comments of Advisory Bodies and Management Entities      |                  |
| c. Public Comment   |                  |
| d. Council Discussion and Comments as Appropriate                       |                  |