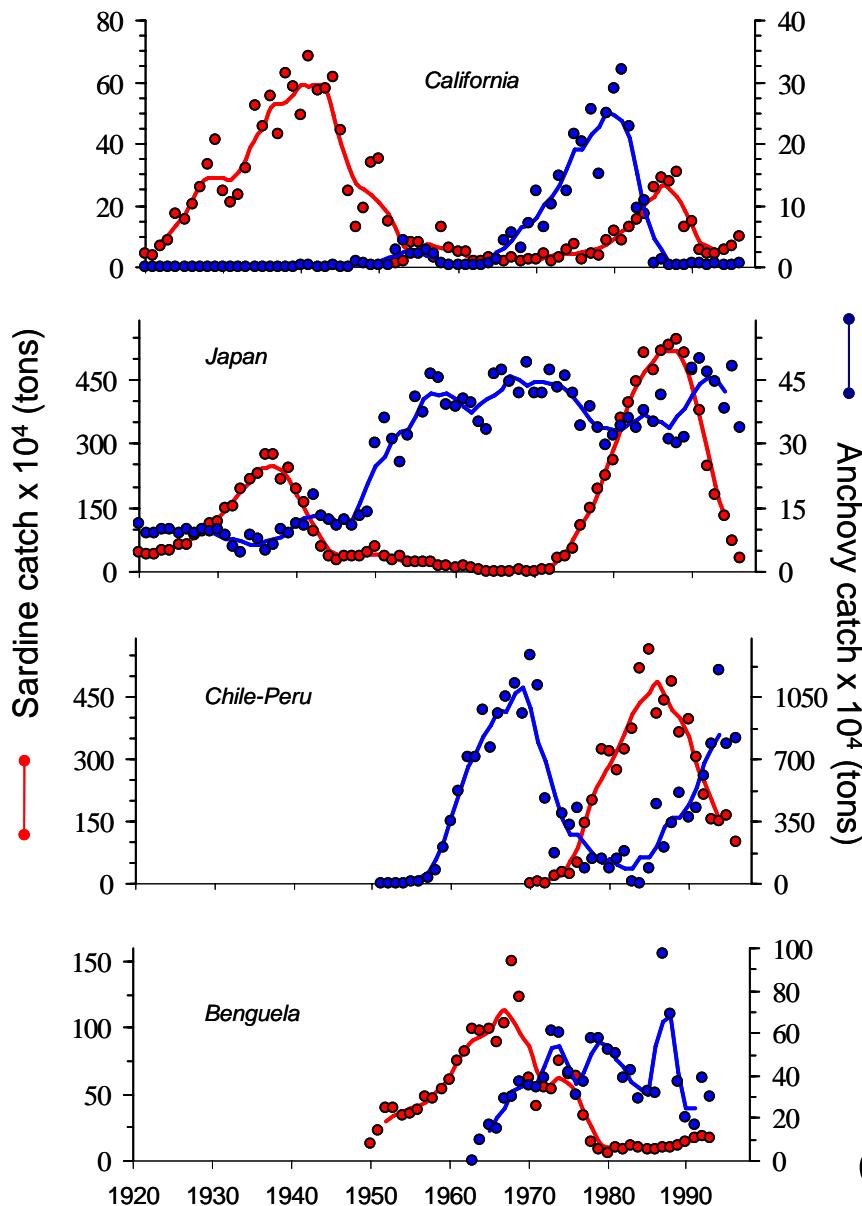


# S6 Modeling and historical data analysis of pelagic fish, with special focus on sardine and anchovy

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|             |  |                   |
|-------------|--|-------------------|
| 09:00-09:10 | Introduction by Convenors                        |                   |
| [Shin-ichi] |  |                   |
| 09:10-09:35 | Salvador E. <u>Lluch-Cota</u> , et al. (Invited) | East sardine      |
| 09:35-10:00 | Akinori <u>Takasuka</u> , et al. (Invited)       | sardine & anchovy |
| 10:00-10:25 | Kenneth <u>Rose</u> , et al. (Invited)           | modeling S & A    |
| 10:25-10:45 | <i>Tea/Coffee Break</i>                          |                   |
| [Bern]      |  |                   |
| 10:45-11:00 | Tadaaki <u>Kuroyama</u> , et al.                 | anchovy           |
| 11:00-11:15 | Xiangxin <u>Li</u>                               | modeling A        |
| 11:15-11:30 | Shin-ichi <u>Ito</u> , et al.                    | modeling S        |
| 11:30-11:45 | Haruka <u>Nishikawa</u> and I. Yasuda            | sardine & saury   |
| 11:45-12:00 | Yury I. <u>Zuenko</u> and S, V. Davidova         | sardine           |
| 12:00-12:15 | Naoki <u>Yoshie</u> and Y. Yamanaka              | modeling LTL      |
| 12:15-12:30 | Fumitake <u>Shido</u> , et al.                   | modeling saury    |



**Sardine & anchovy alternation is one of the most distinctive example of fish species' alternation.**

**sardine in Pacific show synchronicity.**

**However, SSTs show anti-synchronicity between California and Kuroshio/Oyashio systems.**

Courtesy of Lluch-Cota & Chavez

# APN/FRA/PICES/GLOBEC/IAI joint workshop

Workshop on “*Global comparison of sardine, anchovy and other small pelagics: building towards a multi-species model*” , in Tokyo, Japan, from 14-17 Nov., 2005



Compare biological parameters & Apply multi-species model