

**DRAFT** Response to Requests

**Request:** Provide a figure or table displaying the timeline of important events both as modeled and how they occur in reality, including: model semesters, model years, calendar years, fishing seasons, spawning, aging up/birthdays, model censuses, and surveys.

**Rationale:** There are multiple timelines (calendar years, model years, fishing seasons) and multiple biological processes that occur over a range of dates, but are assumed to take place at a single point in time or have discrete boundaries in the models. A graphical display would help readers understand and reconcile the different timelines.

| Calendar year<br>(example) | Model year (example) | Calendar_month        | Model_semester | Model_month | Biology<br>Events | Surveys   | Catch     |
|----------------------------|----------------------|-----------------------|----------------|-------------|-------------------|-----------|-----------|
| 2015                       | 2015                 | June                  | 1              | 1           | Recruitment,      | CalCOFI   |           |
| 2015                       | 2015                 | July                  | 1              | 2           |                   | AT_summer |           |
| 2015                       | 2015                 | August                | 1              | 3           |                   |           |           |
| 2015                       | 2015                 | September             | 1              | 4           |                   |           | MexCal_S1 |
| 2015                       | 2015                 | October               | 1              | 5           |                   |           |           |
| 2015                       | 2015                 | November              | 1              | 6           |                   |           |           |
| 2015                       | 2015                 | December              | 1              | 7           |                   |           |           |
| 2016                       | 2015                 | January of next year  | 2              | 8           | Spawning          | RREAS_YOY |           |
| 2016                       | 2015                 | February of next year | 2              | 9           |                   |           |           |
| 2016                       | 2015                 | March of next year    | 2              | 10          |                   | AT_spring | MexCal_S2 |
| 2016                       | 2015                 | April of next year    | 2              | 11          |                   |           |           |
| 2016                       | 2015                 | May of next year      | 2              | 12          |                   |           |           |