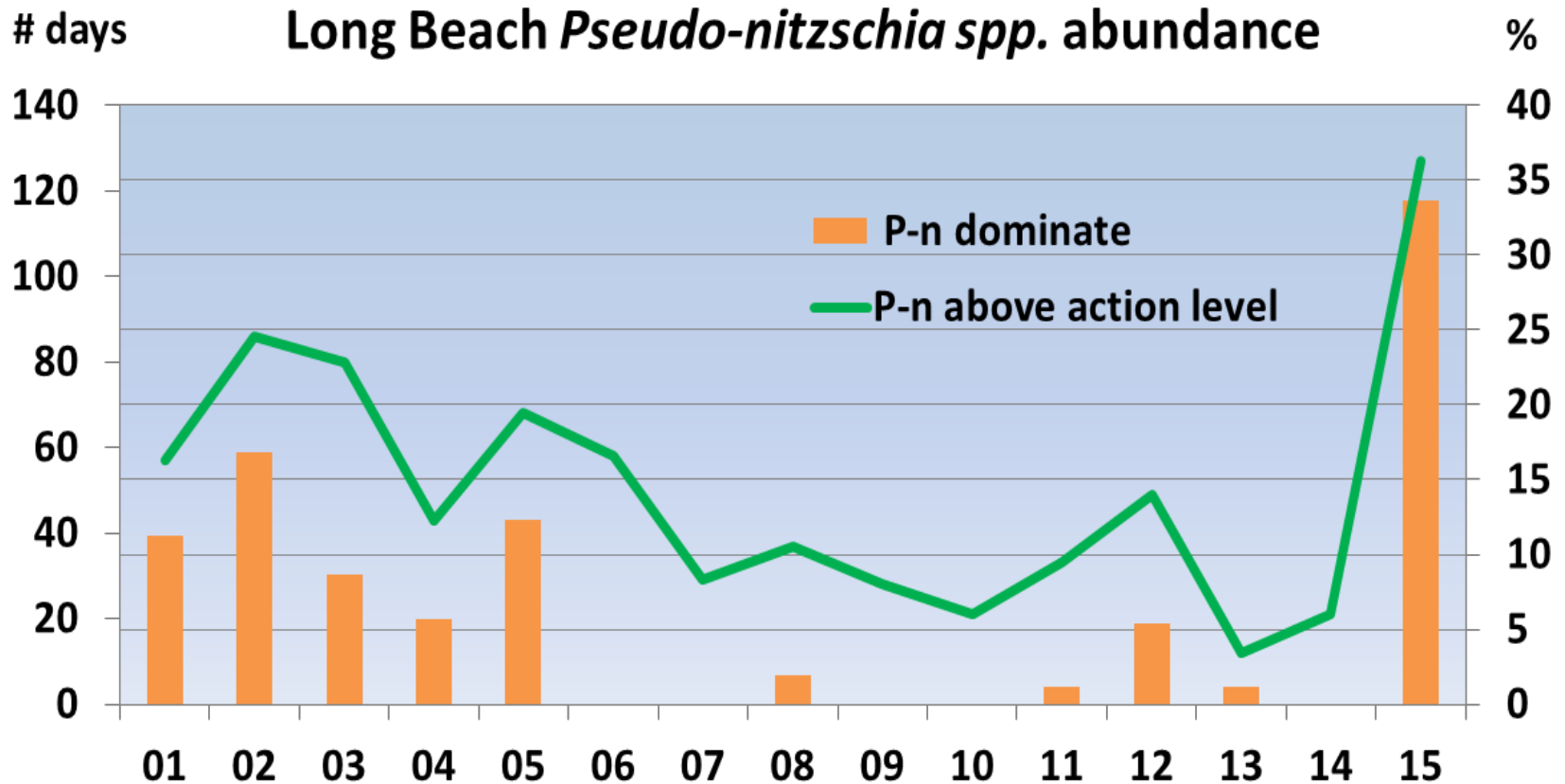


Domoic Acid Detections

- In the last 30 years, razor clam outbreaks in 1991-92, 1997-98, 2002-03; then 2015



Dungeness Crab Outbreaks

- During same timeframe, domoic acid was not detected above threshold (30 ppm) in Dungeness crab until June 2015
- Occurred at unprecedented levels and was above threshold for 127 days
- Northern WA reopened Aug 28; southern WA remained closed through Sept
- Nov 2016 – CA levels resulted in closure off OR and southern WA through early Jan 2017



Preseason Coordination

- Many fishers have licenses for two or more states
- Through Tri-State Dungeness Crab MOU, had softshell crab testing and season delay protocols
- Applied similar principles for domoic acid:
 - Coordinate season opening to avoid effort shifts
 - Seek input from industry advisors
 - Provide sufficient notice relative to openings
 - Biotoxin sampling protocols



Management Issues



- **Management areas across state boundaries raise fairness and equity issues**
- **Sampling is standardized, but differences remain in application (e.g., commercial only)**
- **Market effects resulting from mixing of crab from different areas (e.g., China embargo)**
- **Preseason addressed, but inseason coordination is also needed (e.g., evisceration plans)**