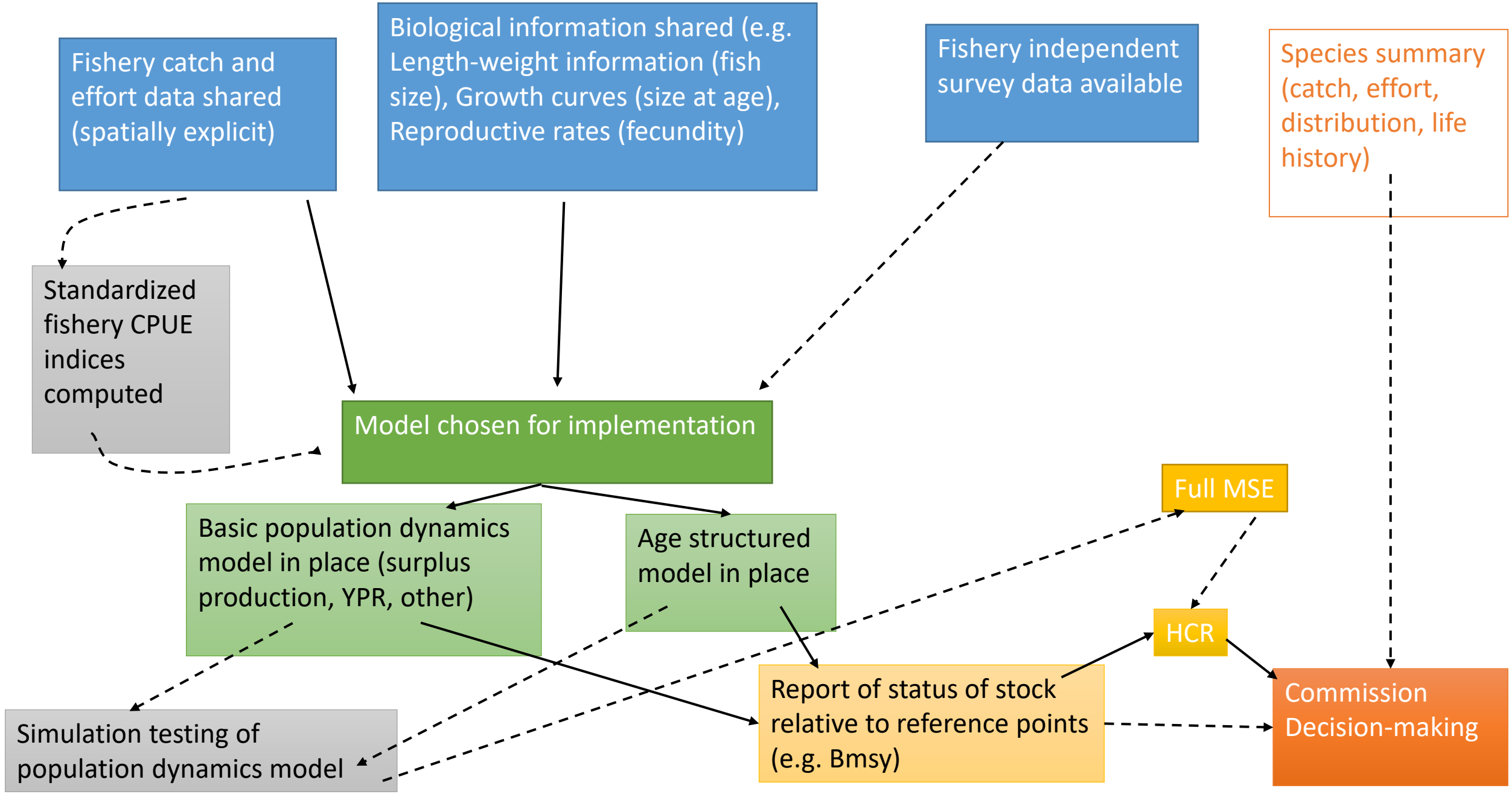
Science Advice Progress and Milestones(?) for NPFC Priority Species

Basic ingredients for stock assessment

- Catch
- Index of abundance (survey index, catch-per-unit-of-effort)
- Biological data (fish size, size at age, fecundity)
- Model appropriate for the data

Generic process for management advice (NPFC flavor)



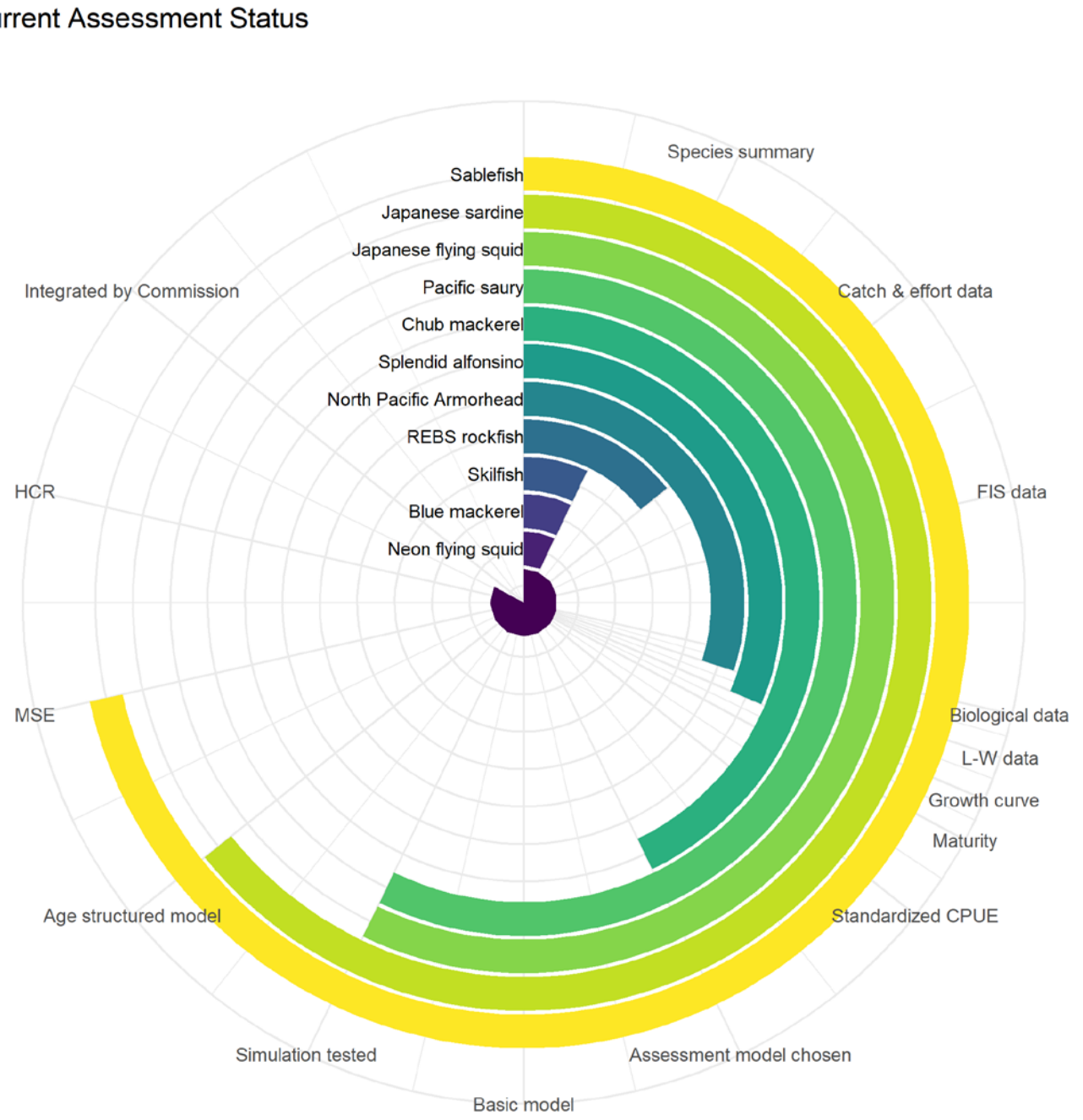
NPFC Species

8 Priority Species identified in 2012

- Pelagics
  - Pacific saury
  - Chub mackerel
  - Blue mackerel
  - Neon flying squid
  - Japanese flying squid
  - Japanese sardine
- Bottom Fish
  - North Pacific armorhead
  - Splendid alfonsino

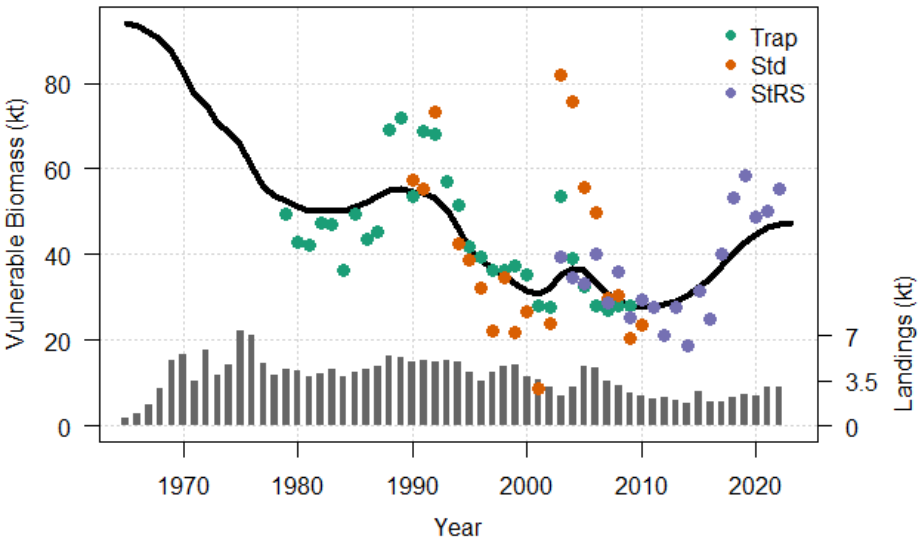
Species that are targeted but not on list

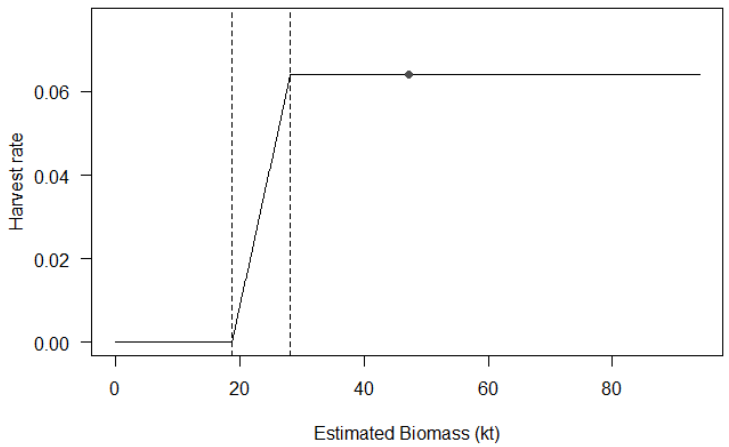
- Sablefish
- Skilfish
- Rougheye and Blackspotted rockfish

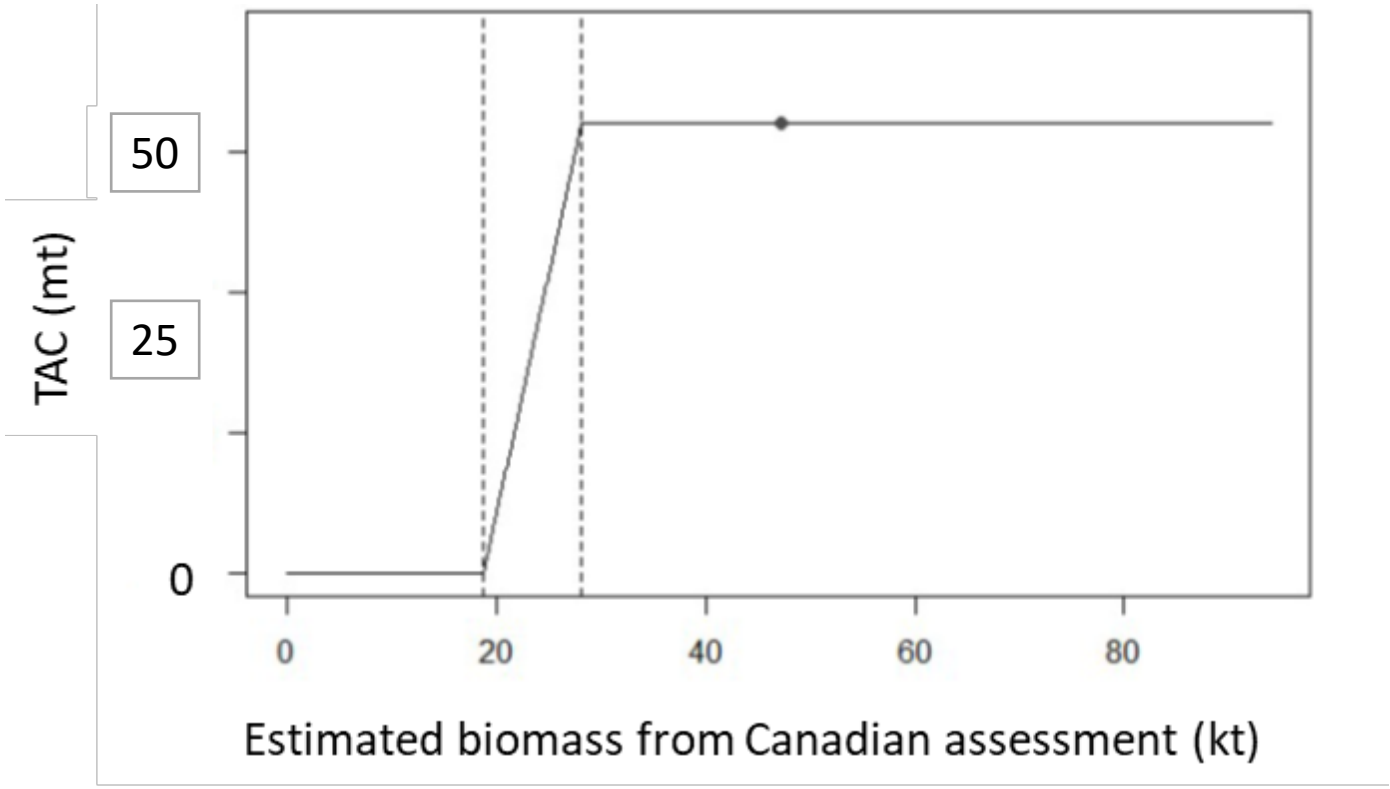


	Activity or milestone	Pacific saury	Chub mackerel	Japanese sardine	Japanese flying squid (winter)	Neon flying squid	Blue mackerel	North Pacific Armorhead	Splendid alfonsino		Sablefish	REBS rockfish	Skilfish
	Species summary completed (catch, effort, distribution, life history)	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	**SC09**
Catch data	Fishery catch and effort data shared (spatially explicit)	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	N
	Standardized fishery CPUE indices computed	Y	Y	N	N	N	N	N	N		--	N	N
Abundance data	Fishery independent survey data available	Y	--	--	--	--	Y	--	--		Y	--	--
Biology data	Biological information shared (NPFC CA)	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	N
Modeling	Model (or models) chosen for implementation	Y	Y	N	N	N	N	N	N		Y	N	N
	Basic population dynamics model in place (surplus production, YPR, other)	Y	--	--	Y	Y	--	**SC09?**	**SC09**		--		
	Age structured model in place	**SC09**	**SC09**	Y	--	--	Y	--			Y		
	Simulation testing of population dynamics model	Y	Y	N	N	N					Y		
	MSE	**SWGMSE 05**		N	N	N	N				Y		
Rules and advice	HCR	**SWGMSE 05**		Could link HCR to Japanese assessment?	Could link HCR to Japanese assessment?	Could link HCR to Chinese assessment?	Could link HCR to Japanese assessment?				**SC09 - linked to Canadian assessment**		
	Advice integrated into Commission Decision-making	**COM08**											
Comment				Japanese domestic assessment includes NPFC data	Japanese domestic assessment includes NPFC data	Chinese domestic assessment includes only NPFC data	Japanese domestic assessment includes NPFC data				Domestic assessments in place		

Sablefish example: linking to domestic assessment







Potential Suggestions

- Streamline reporting to Commission from the SC
  - Statements of status for each species (e.g. saury text, NPA text)
  - Time series of catch, effort for all species (with pictures)
  - CPUE standardized or biomass (if model) where available
- 5-10 year stock assessment review cycle
- Consider collecting fishery catch data (establish observer program)