

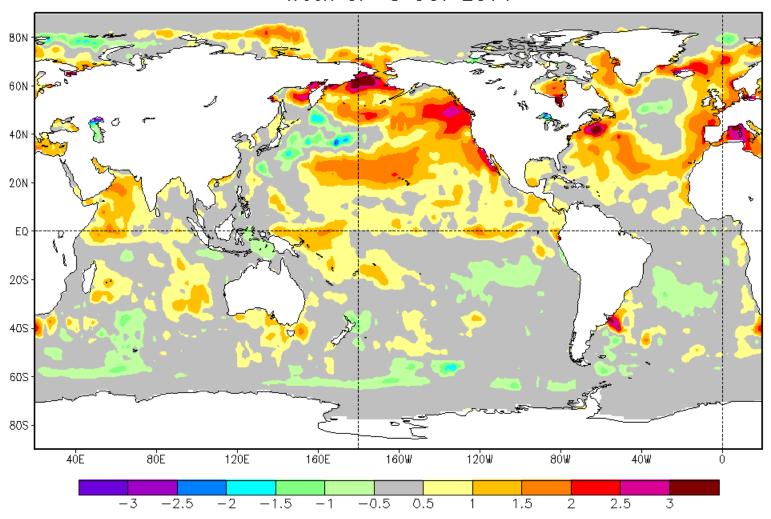
Indian Island

The health of the bay 2014

Five-year review

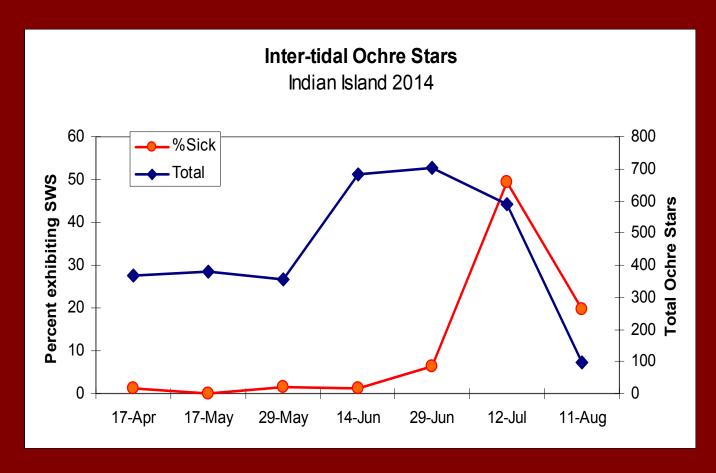


Sea Surface Temperature Anomaly (°C), Base Period 1971-2000 Week of 8 OCT 2014

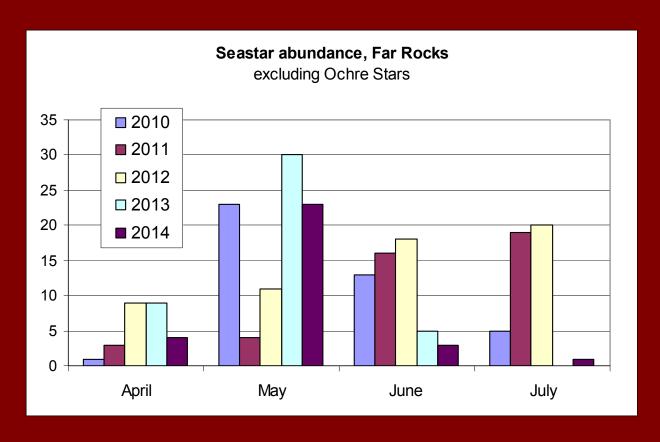




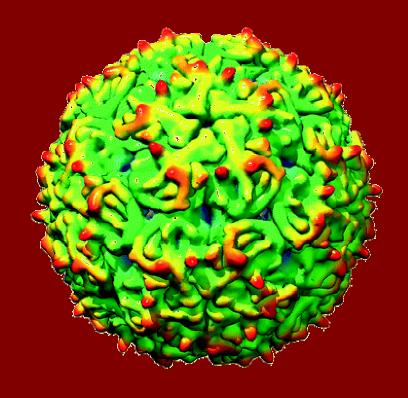
Seastar Wasting Syndrome



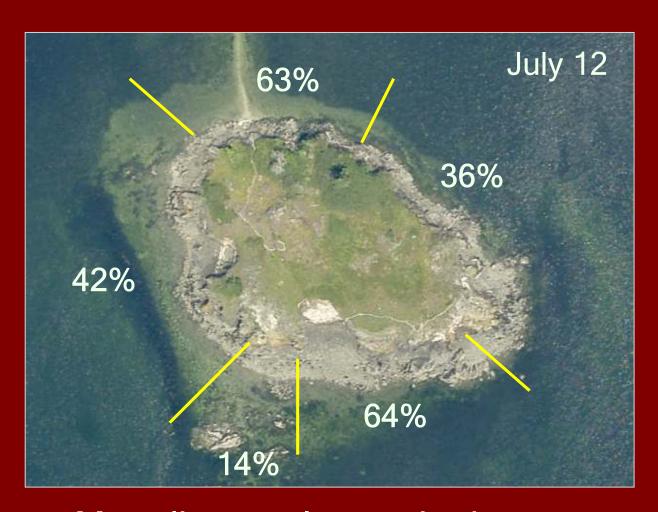
Mortality peaked in late June and declined in August



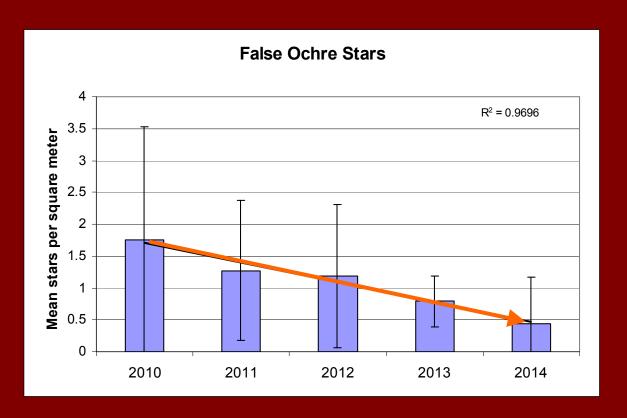
In warm years, sea stars peak in May then move into deeper water



Densovirinae (Parvoviridae) Previously reported hosts are all insects Found in healthy <u>and</u> sick echinoderms Ubiquitous and opportunistic?



Mortality was lowest in deeper, more exposed tide pools



False Ochres have declined for years!
Orchitophrya?

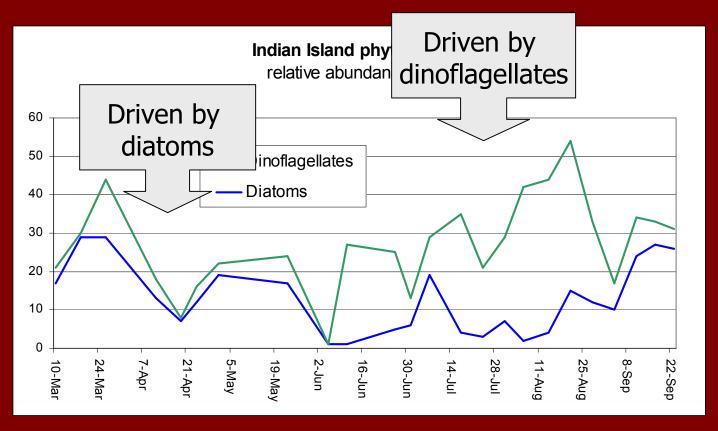
Heterosigma akashiwo



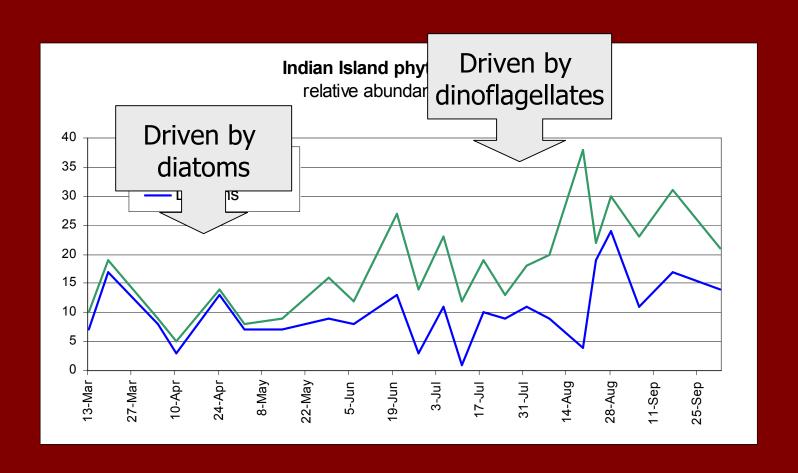


Bloomers

2013	2014	
Ceratium	Ceratium*	
Ditylum*	Coscinodiscus	
Scrippsiella	Detonula	
Thallasionema	Gonyaulax	
Thallasiosira	Heterosigma	
	Minuscula	
	Nitzschia	
	Noctiluca*	
	Scrippsiella	
	Thallasiosira*	

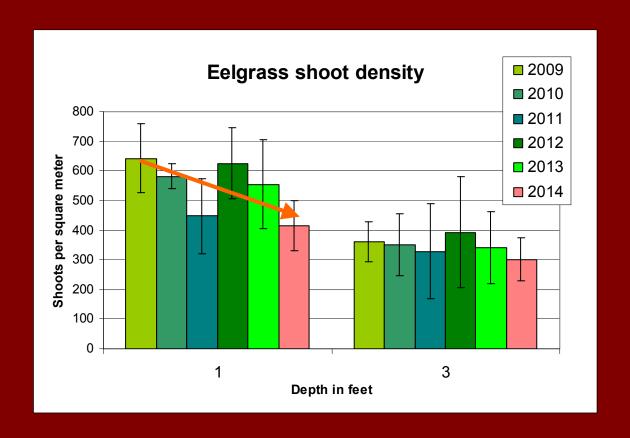


Raw data courtesy SoundToxins

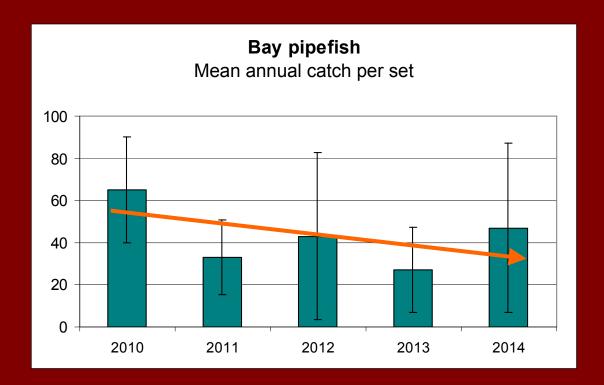




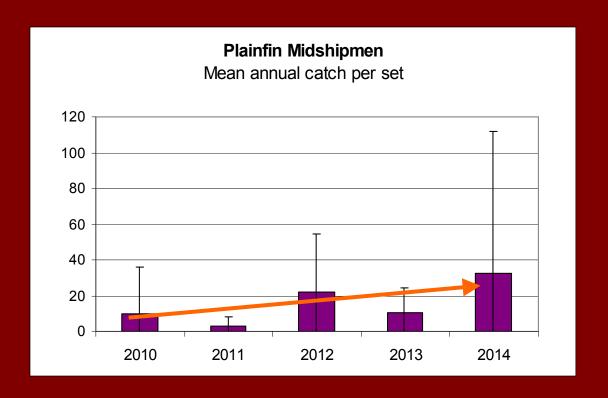
Viral Hemorrhagic Septicemia



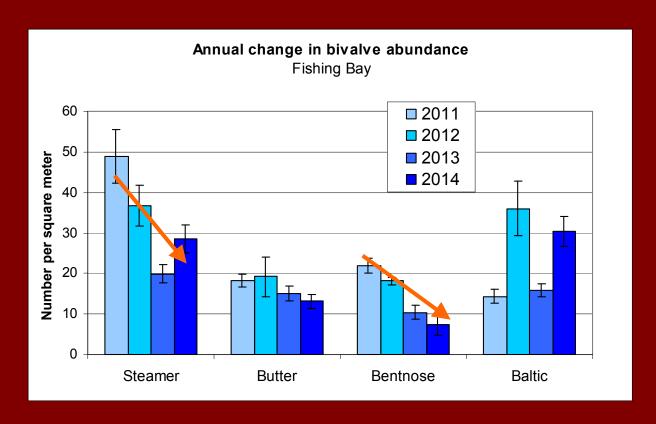
Eelgrass density declined in the shallows



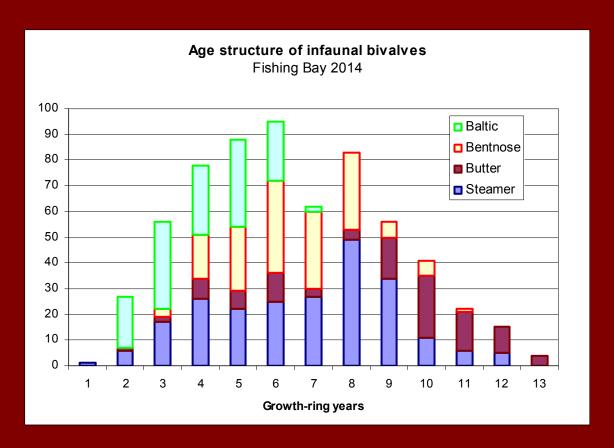
Gradual downward trend in Pipefish



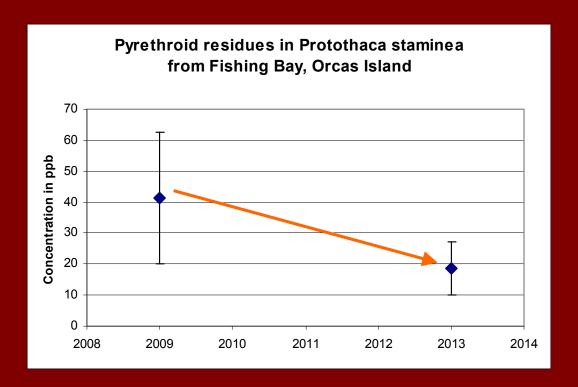
And upwards for Midshipmen



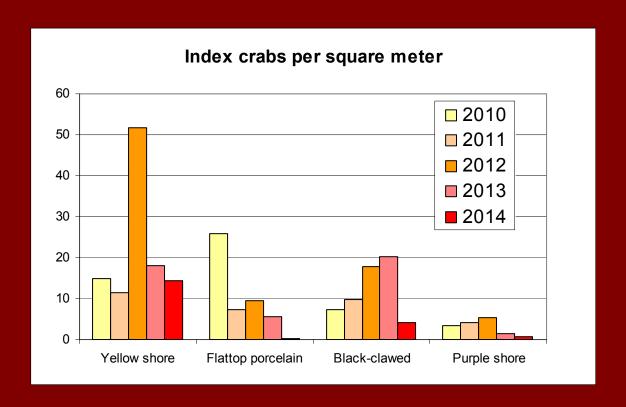
Many infaunal clams have declined Both "hard-" and "soft-shell" species



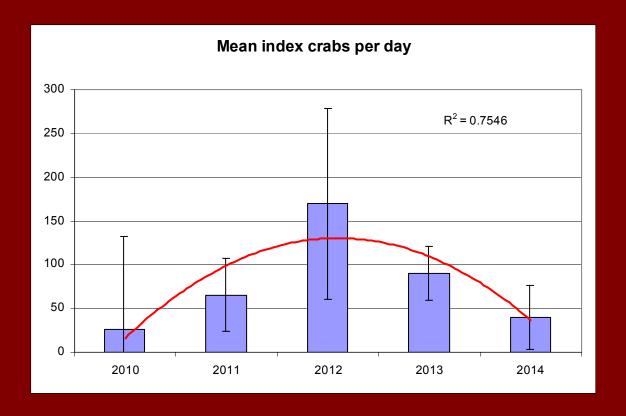
Only Baltics are recruiting vigorously



Contamination appears to have decreased



Crab species have good and bad years



All together, crabs peaked in 2012

Sea slugs: Residents, seasonal, opportunistic visitors



Vascular plant species

	Native	Non-native
Trees, shrubs	12	2
Wildflowers	30	12
Grasses	5	6
	47	20



Oystercatcher cam

