

Broughton 2006 Sea Lice Monitoring

Coastal Alliance for Aquaculture Reform/Marine Harvest Canada



Broughton Archipelago Farm Tenures



Salmon Farms and Pink Salmon Rivers feeding into the Broughton Archipelago

Fish Farm Tenures

-  Mainstream (formerly Heritage Salmon)
-  Mainstream farms on fallow route
-  Marine Harvest (formerly Stolt Sea Farms)
-  Marine Harvest farm on fallow route
-  Pan Fish
-  Fallow route
-  Pink Salmon River (Broughton only)
-  Salmon bearing stream reach

Farm locations: Land & Water BC
 Salmon streams: FISS
 Migration routes: local knowledge
 Buffering around active farms: 2 km

Oct 2005



Methods

**Weekly sampling
(March - June)**

**20 fish from each of 3
pens**

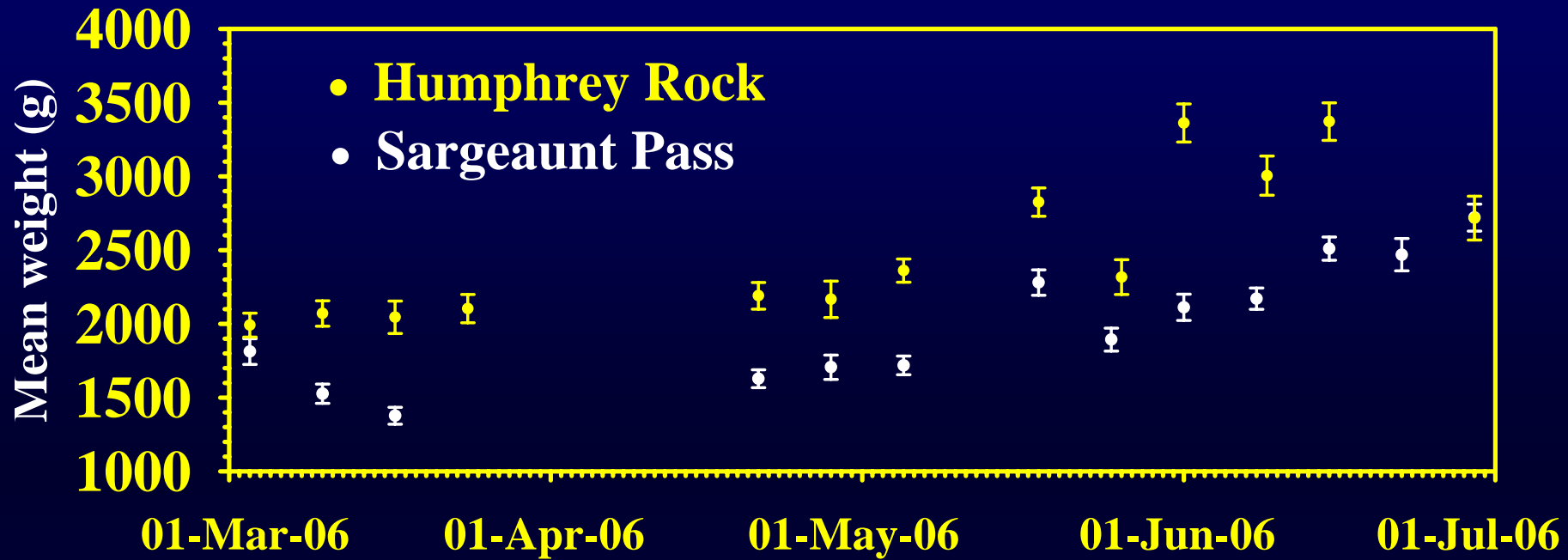
**Fish weighed & lice
identified and counted**



Methods

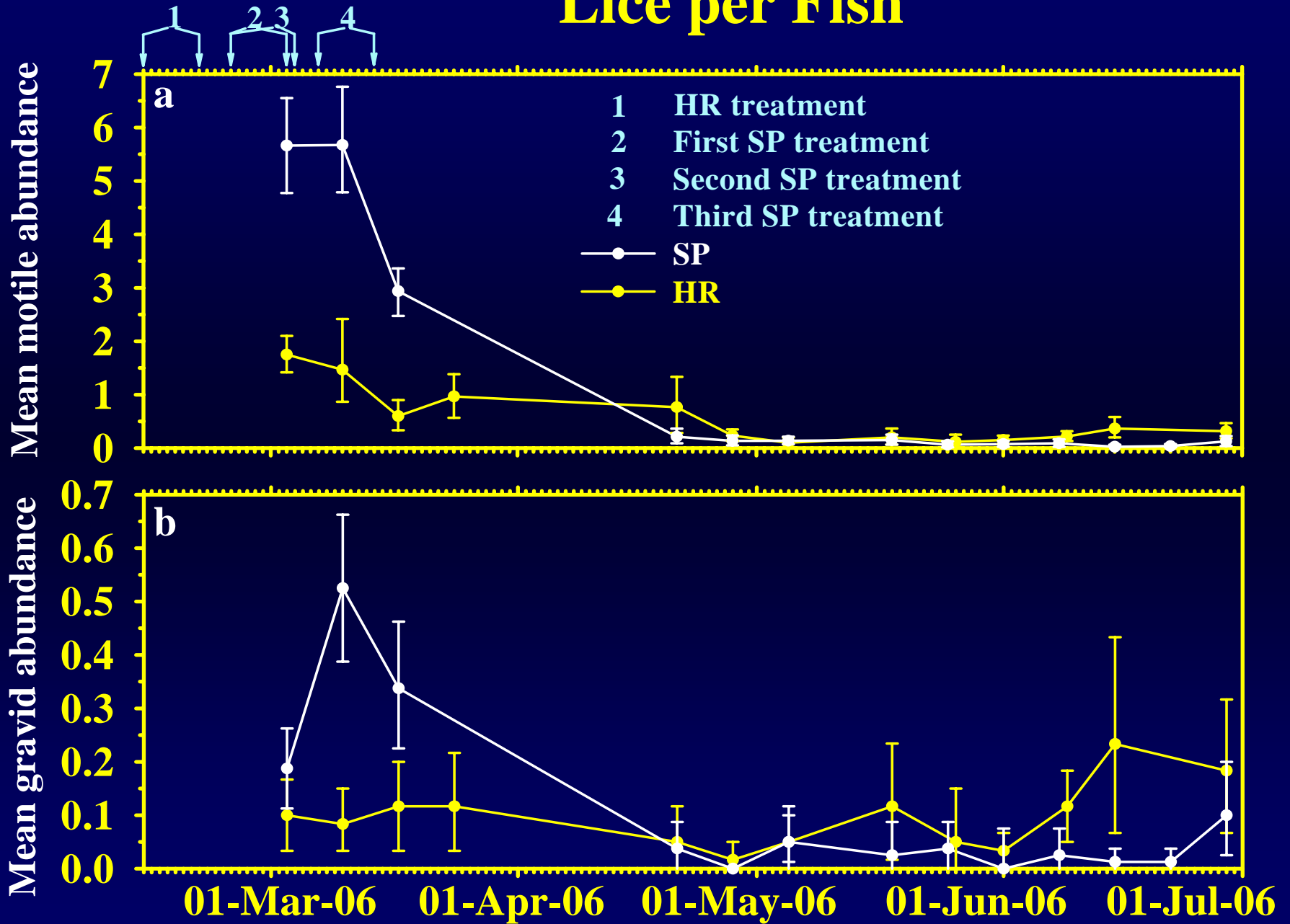


Fish Size

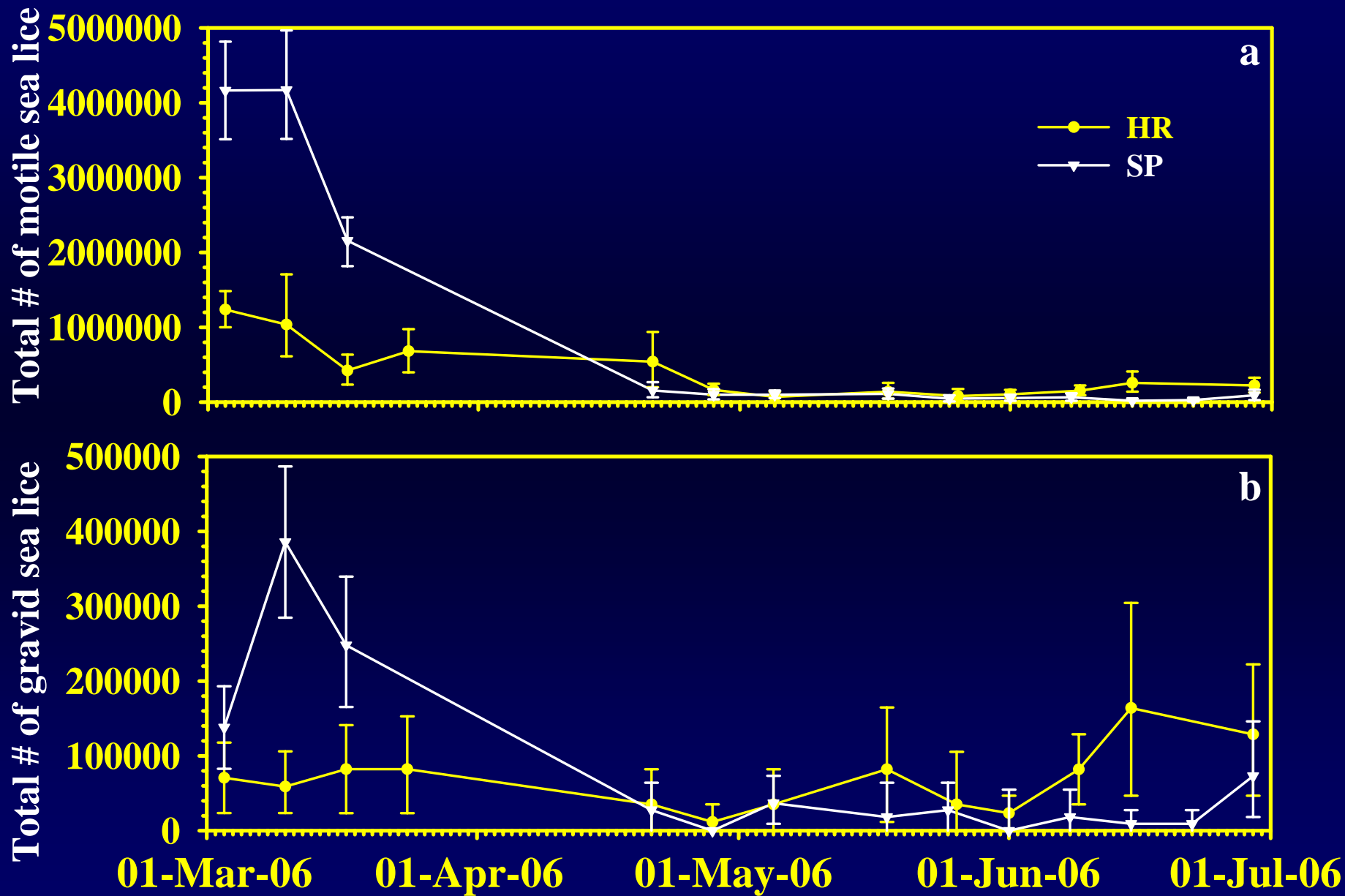


Chaetoceros

Lice per Fish



Lice per Farm



CAAR-MHC sea lice workplan

Literature review

Dr. Larry Hammell reviewing state of knowledge and research gaps: Five Research topics

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- Source of lice

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- Source of lice
- Morbidity, mortality and behavioural effects of lice

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- Age of fish and lice loads

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- Morbidity, mortality and behavioural effects of lice
- Age of fish and lice loads
- Fallow bookend study (linked to March 1 fry emergence)

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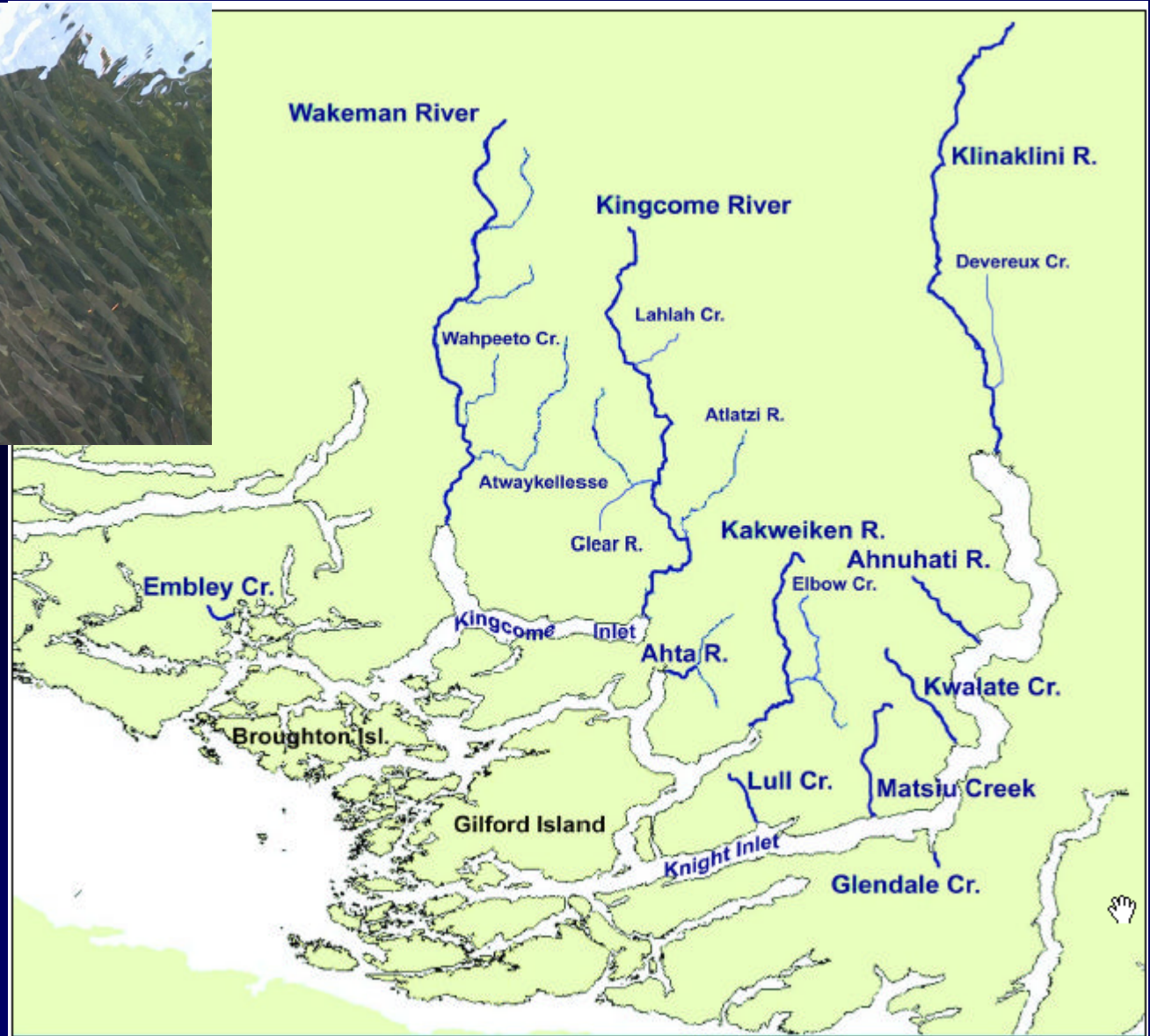
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- Migration corridors

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Wahpeeto Pinks



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