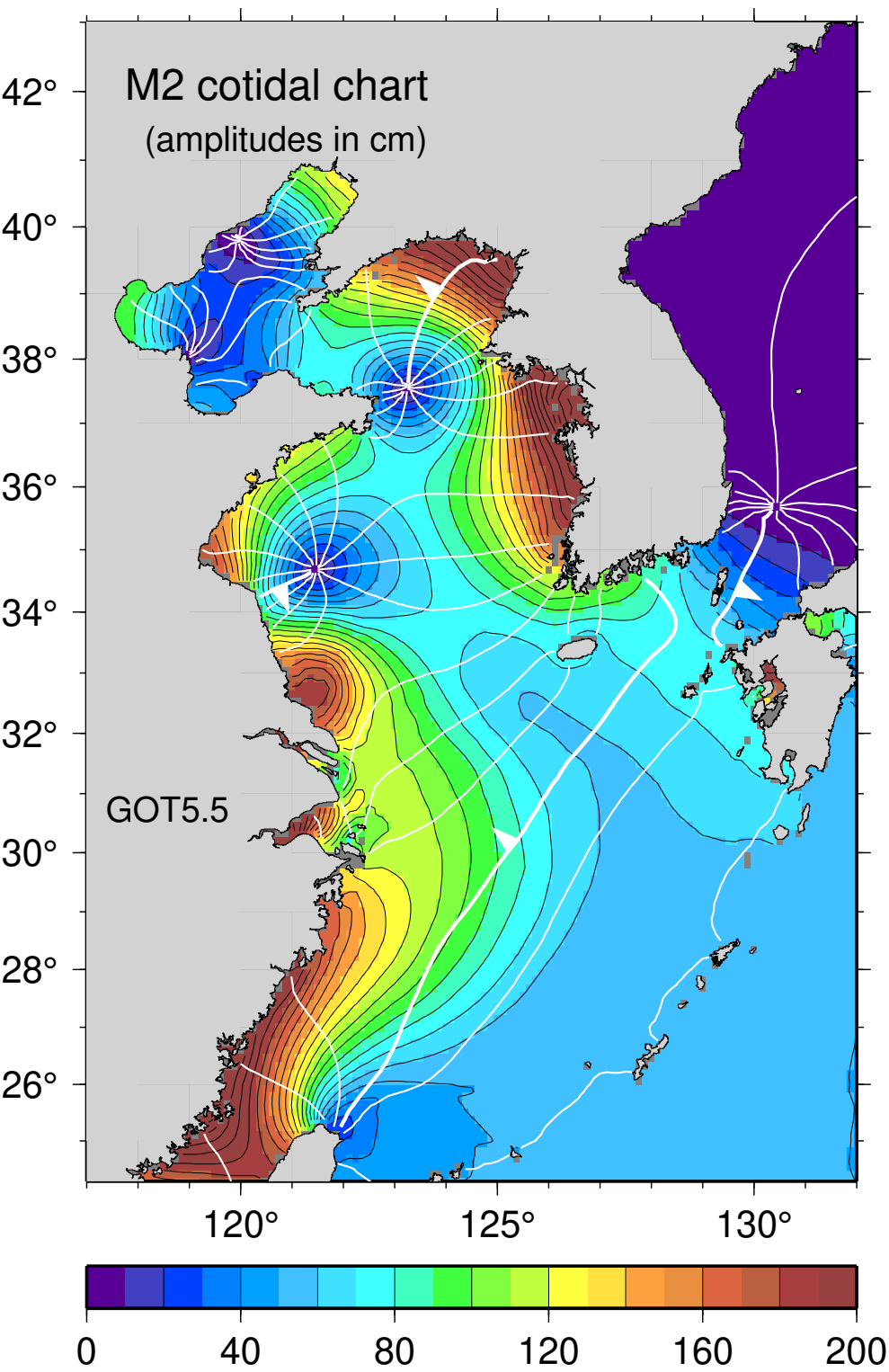
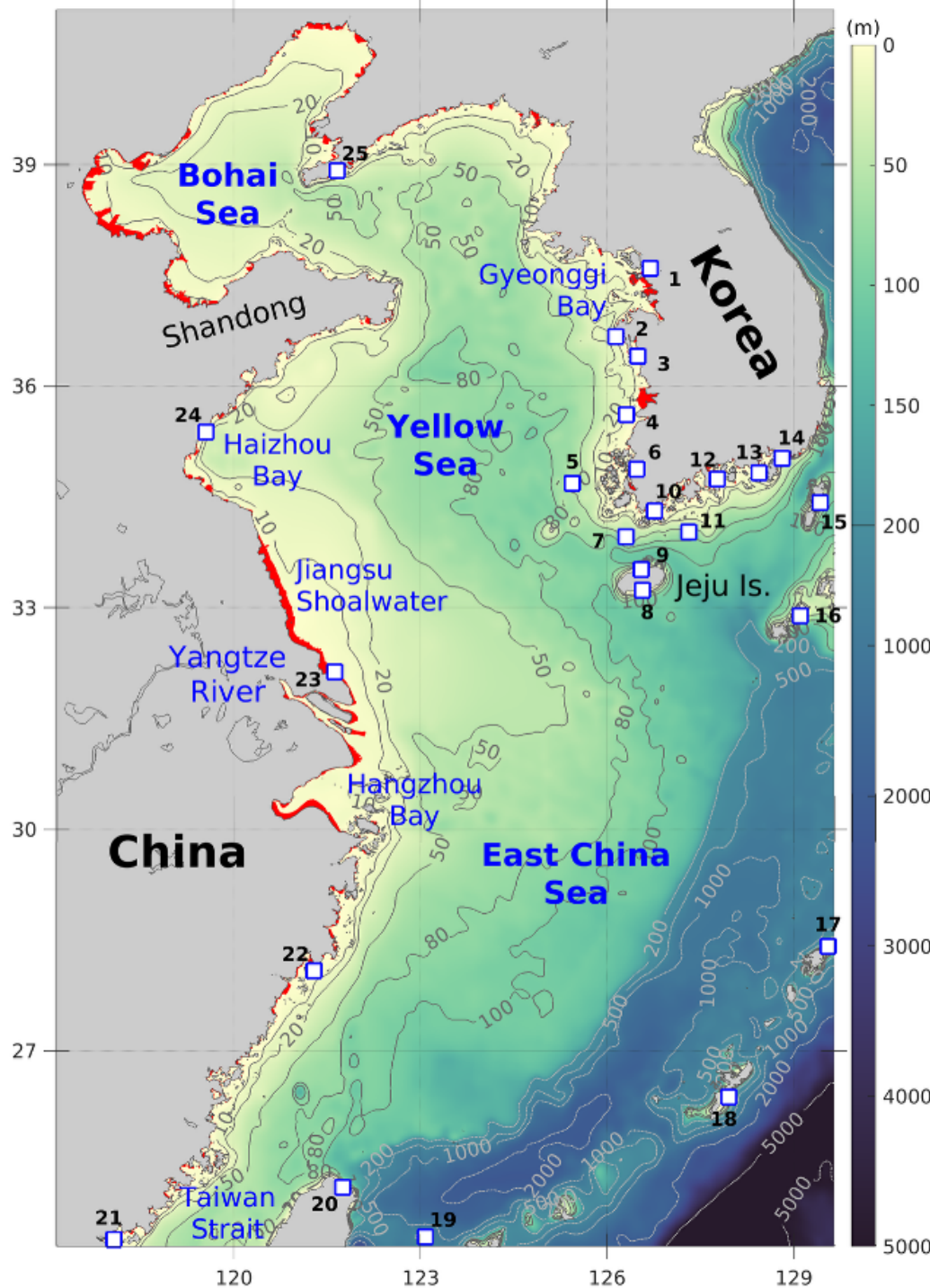


Science surprise:

1. Land reclamation along China coastline has changed M_2 tide throughout the entire Yellow and East China Seas
2. Can be detected by along-track tidal analysis of T/P-Jason-S6

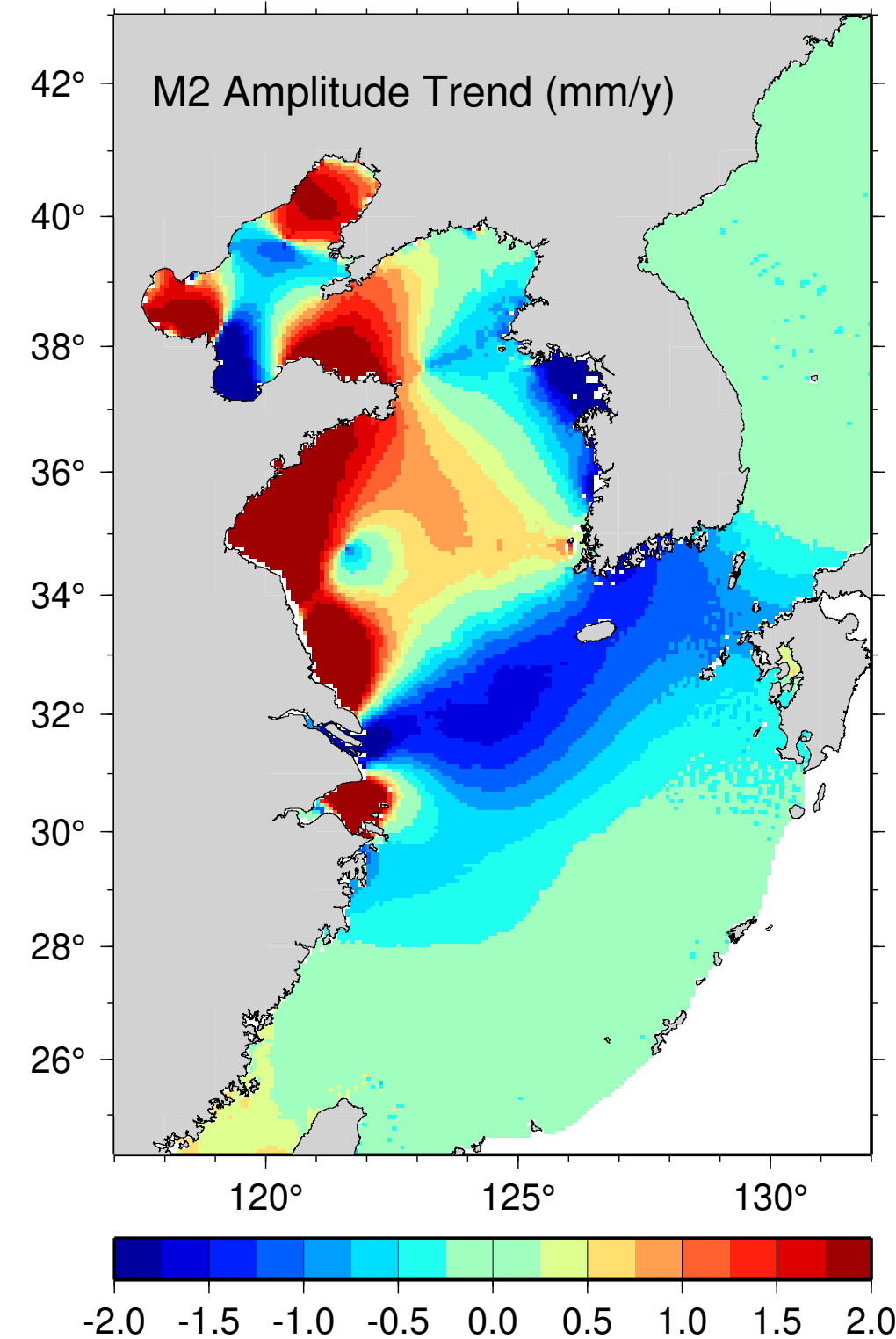


Tides here are large and complex



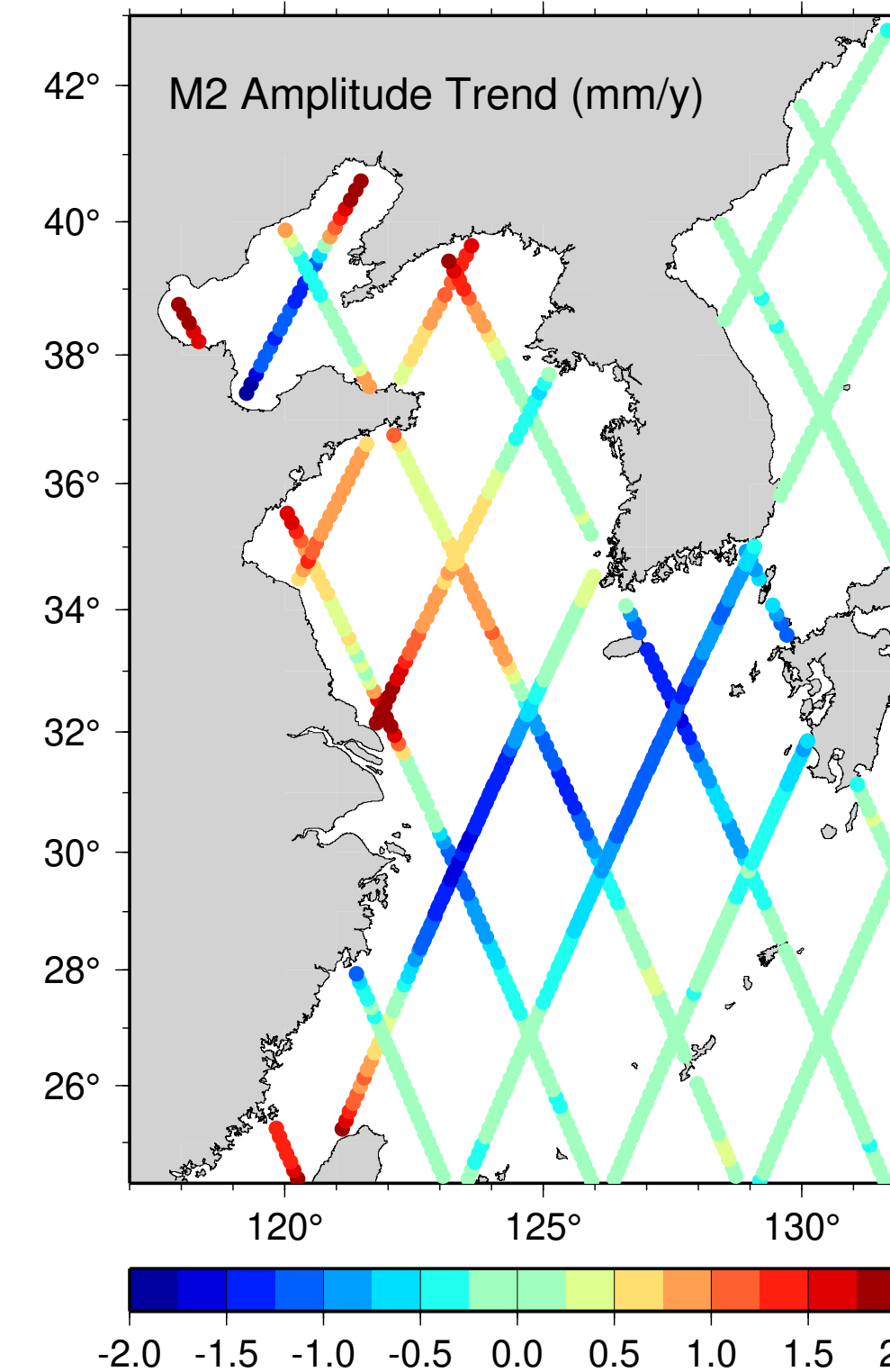
Red pixels show where the sea has disappeared since 1993.

Modeled: Climate + Land reclamation



2-layer ocean tide model
Forced by sea-level rise, stratification change, & land reclamation:
Reclamation is largest effect.
(Sok-Kuh Kang's group)

Altimeter Trends



Trends in altimetric tides (1993-2025)
Agreement with model not perfect, but not bad either.

Trend Uncertainty

