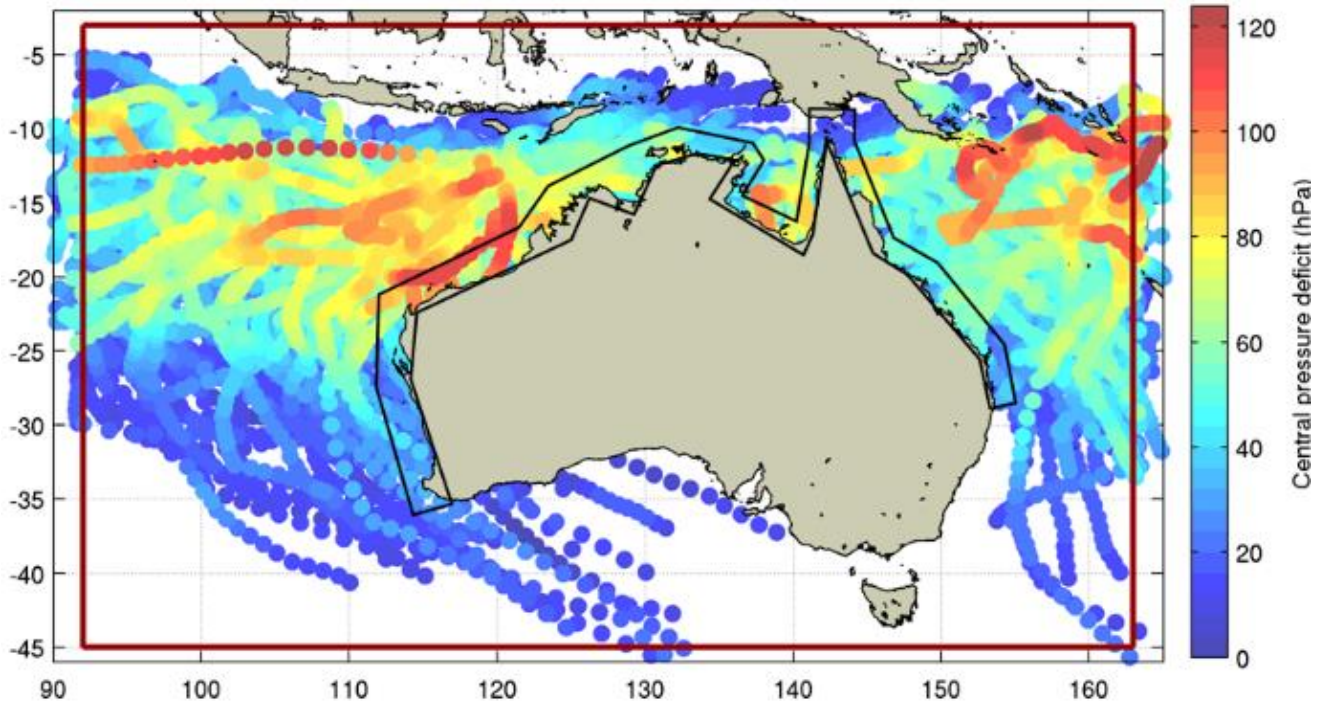


SEAsim - Australia-Wide Prognostic TC Impacts



Sampled 55 years (historical span) from the SEA 50,000-year tropical cyclone climatology and SEAsim coastal coverage (black).

SEAsim is built upon a validated 50,000 year tropical cyclone climatology to explore long-term probabilistic hazards and impacts around the Australian coastline due to:

- Extreme winds
- Waves
- Storm tide elevations (tide + surge + wave setup)

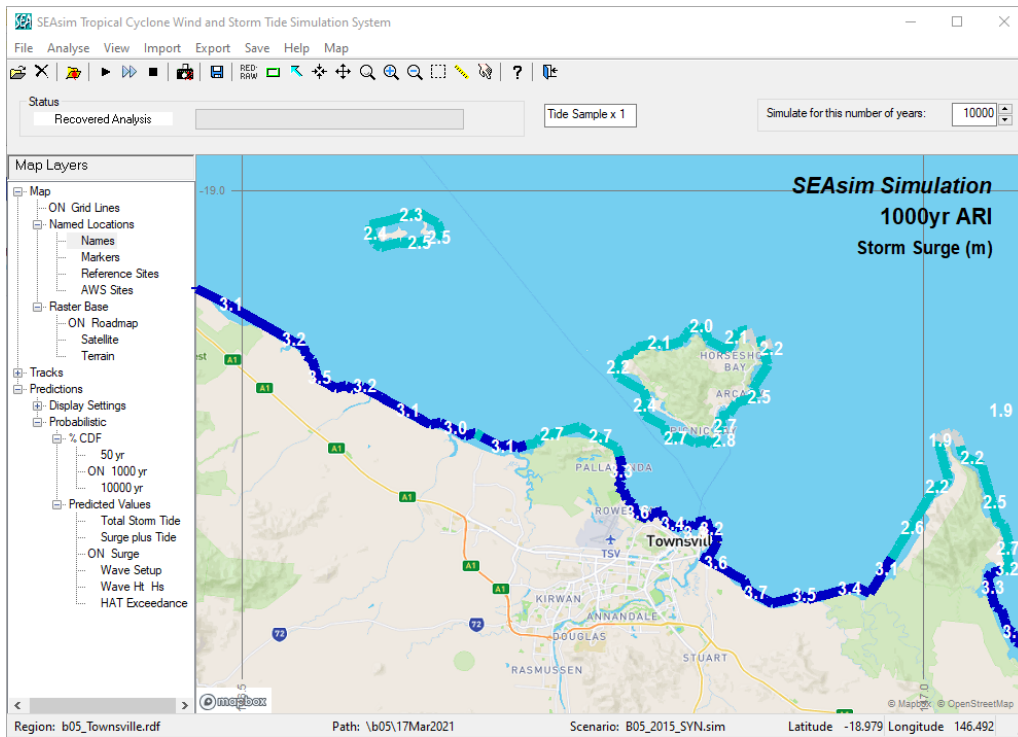
based on either:

- Rapid parametric TC response models
- Discrete hydrodynamic and spectral wave modelling

and considering:

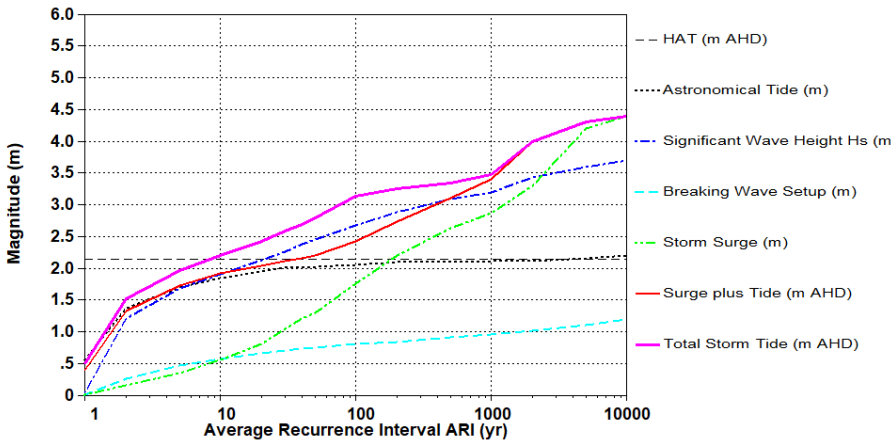
- Present climate, or
- Future climate scenarios

SEAsim Example Outputs



SEAsim Simulation

Probabilistic Site Summary at Taylors_Beach Lat-18.627 Lon 146.343



SEAsim Simulation

Probabilistic Site Summary at Haughton_River Lat-19.417 Lon 147.131

