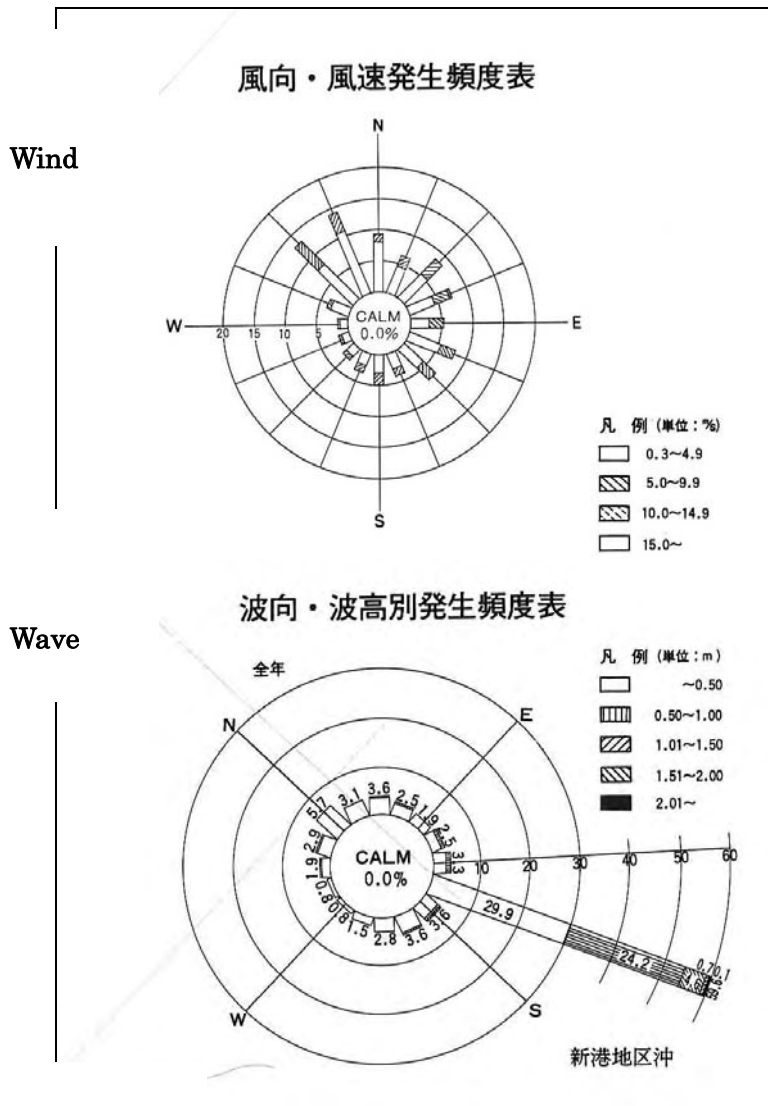
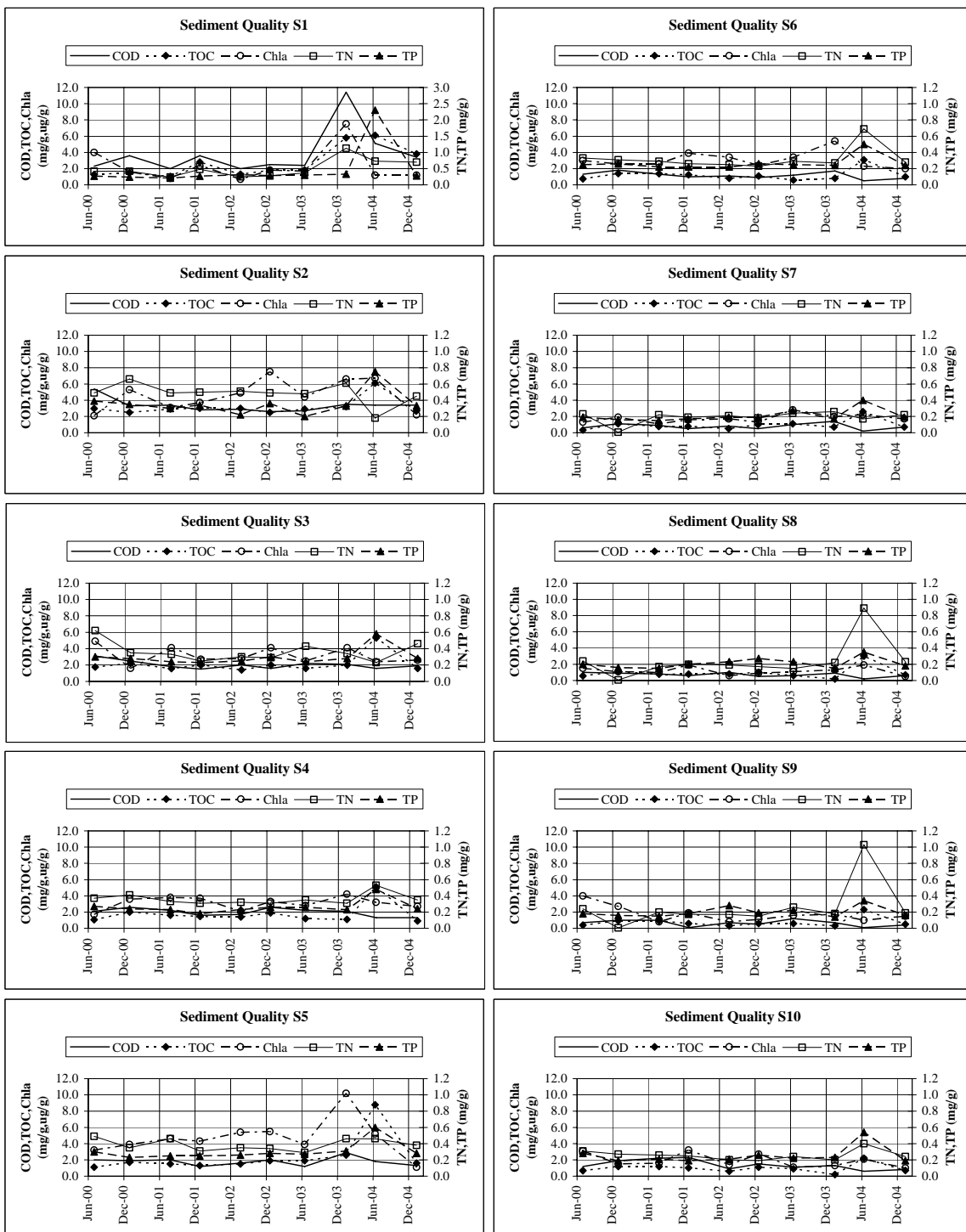


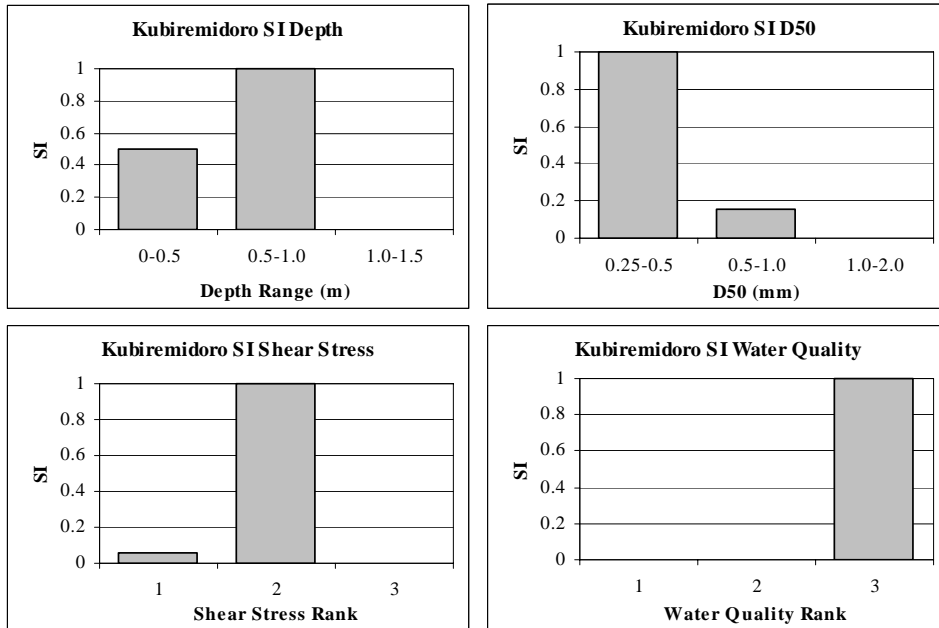
APPENDIX A: Wind and wave roses for Nakagusuku Bay at 1996.
 After from Leaflet of Nakagusuku Port (2005)



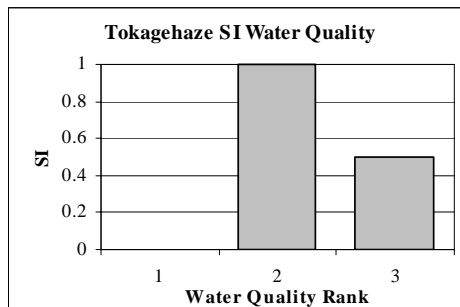
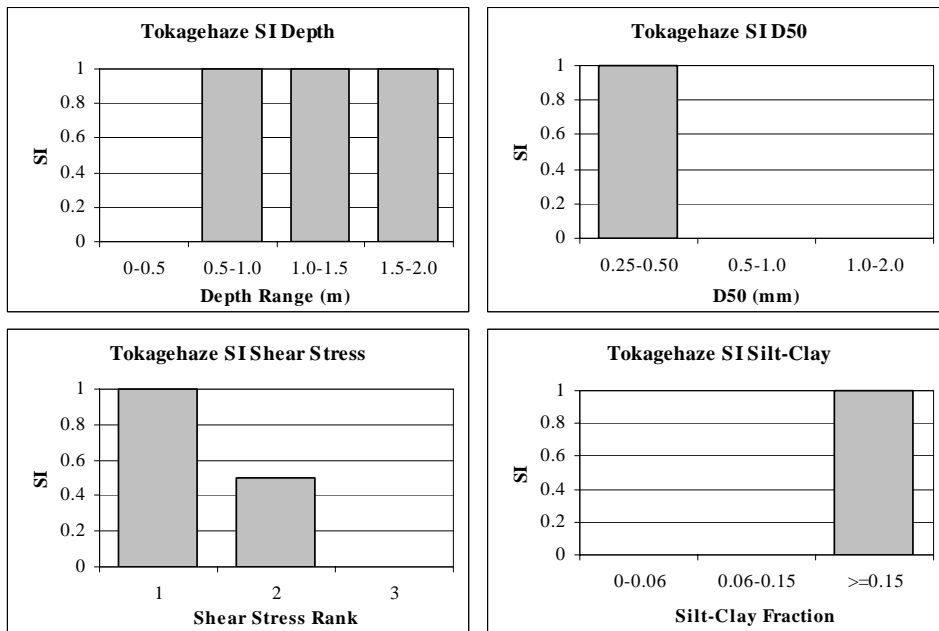
APPENDIX B: Time series COD, TOC, TN, TP and Chlorophyll-a data for the sampling sites S1-S10 between July 2000 and February 2005.



APPENDIX C: Suitability Index (SI) plots of abiotic parameters for selected indicators.

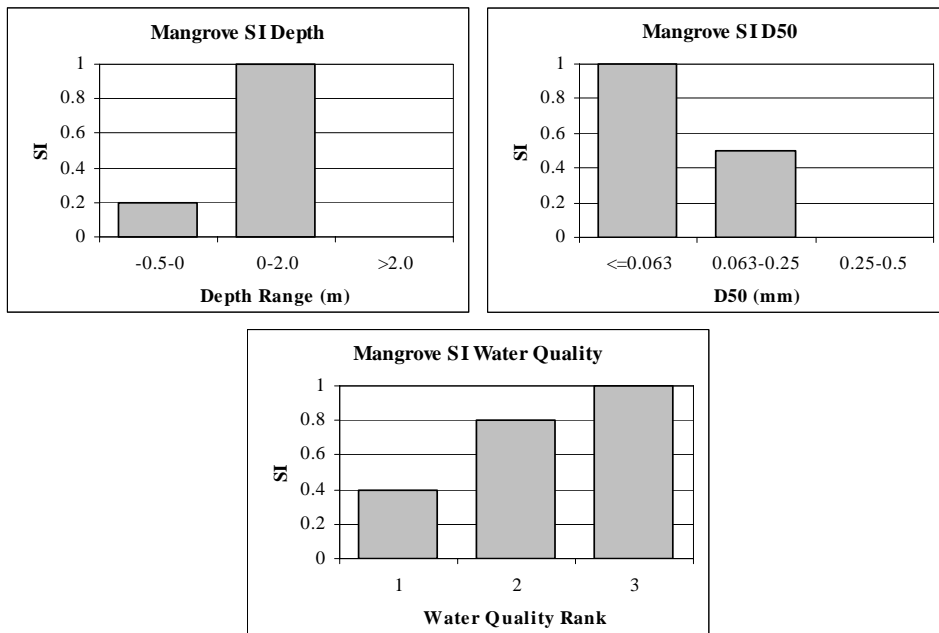


Kubiremidoro SI plots.

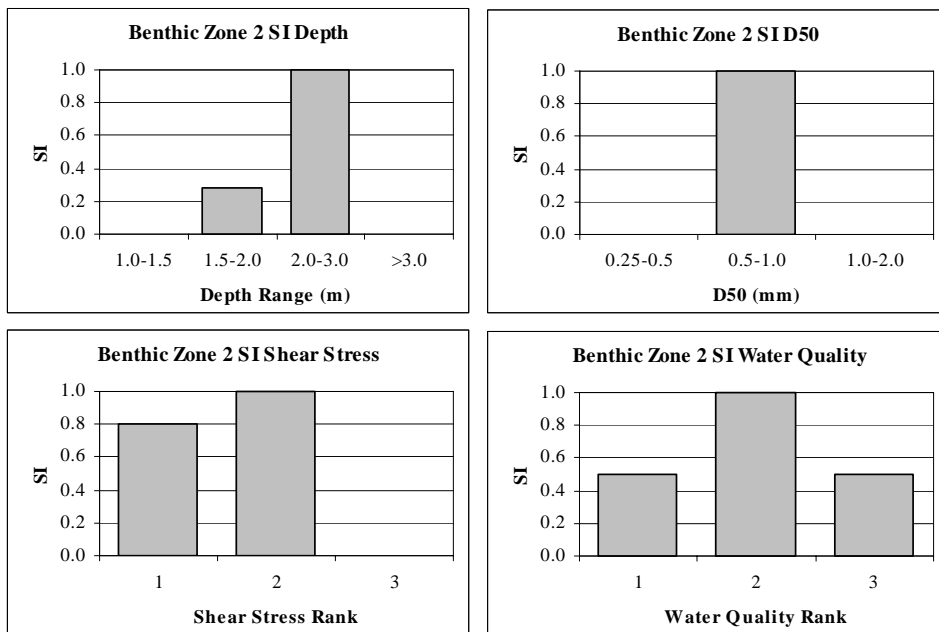


Tokagehaze SI plots.

APPENDIX C: Suitability Index (SI) plots of abiotic parameters for selected indicators (cont.).

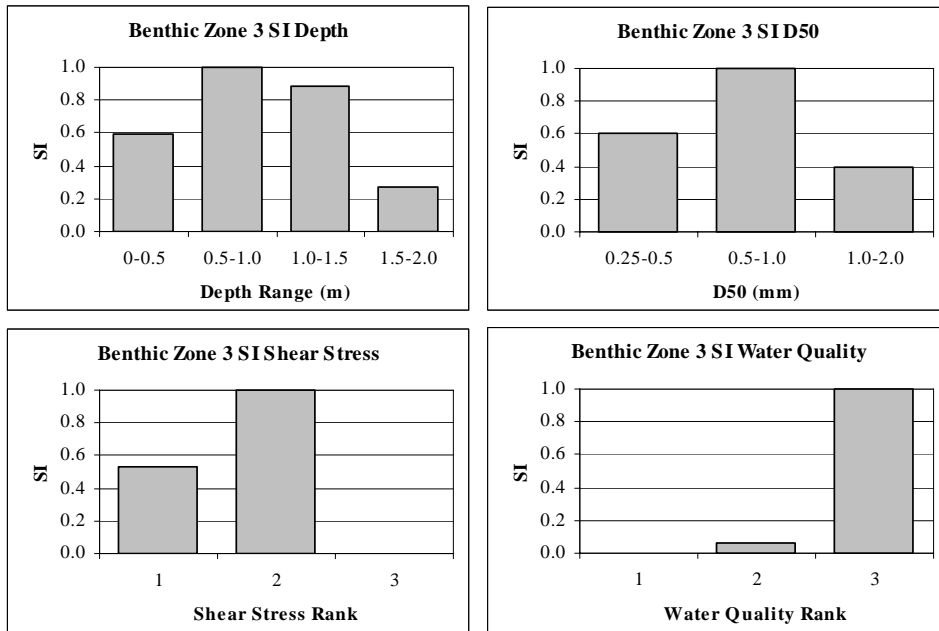


Mangrove area SI plots.

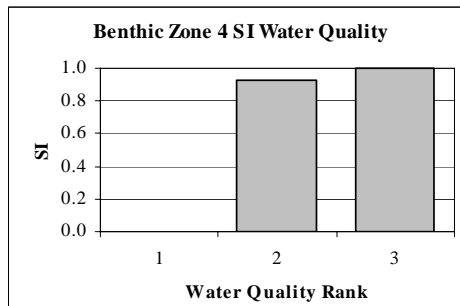
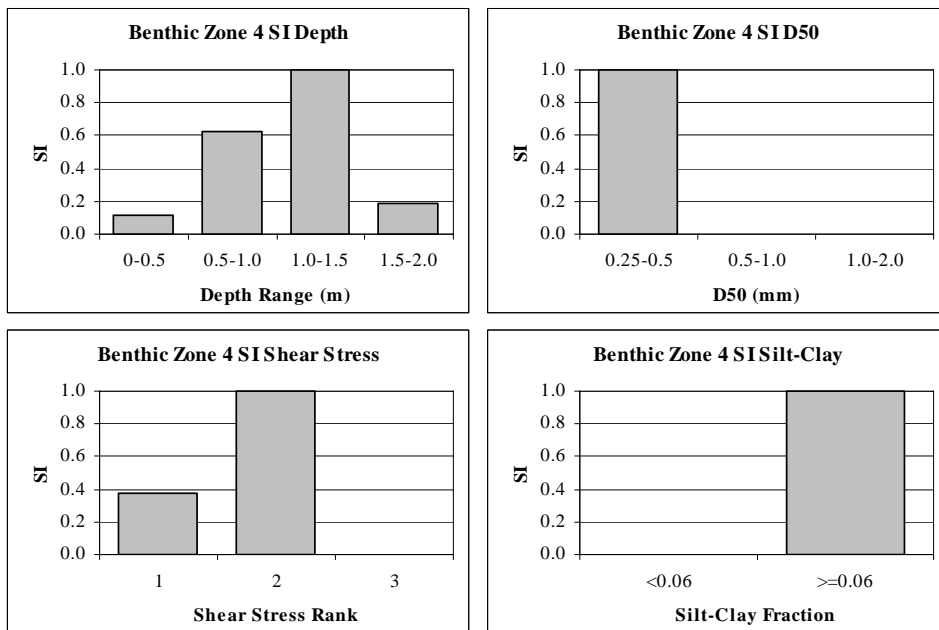


Benthic Zone II SI plots.

APPENDIX C: Suitability Index (SI) plots of abiotic parameters for selected indicators (cont.).

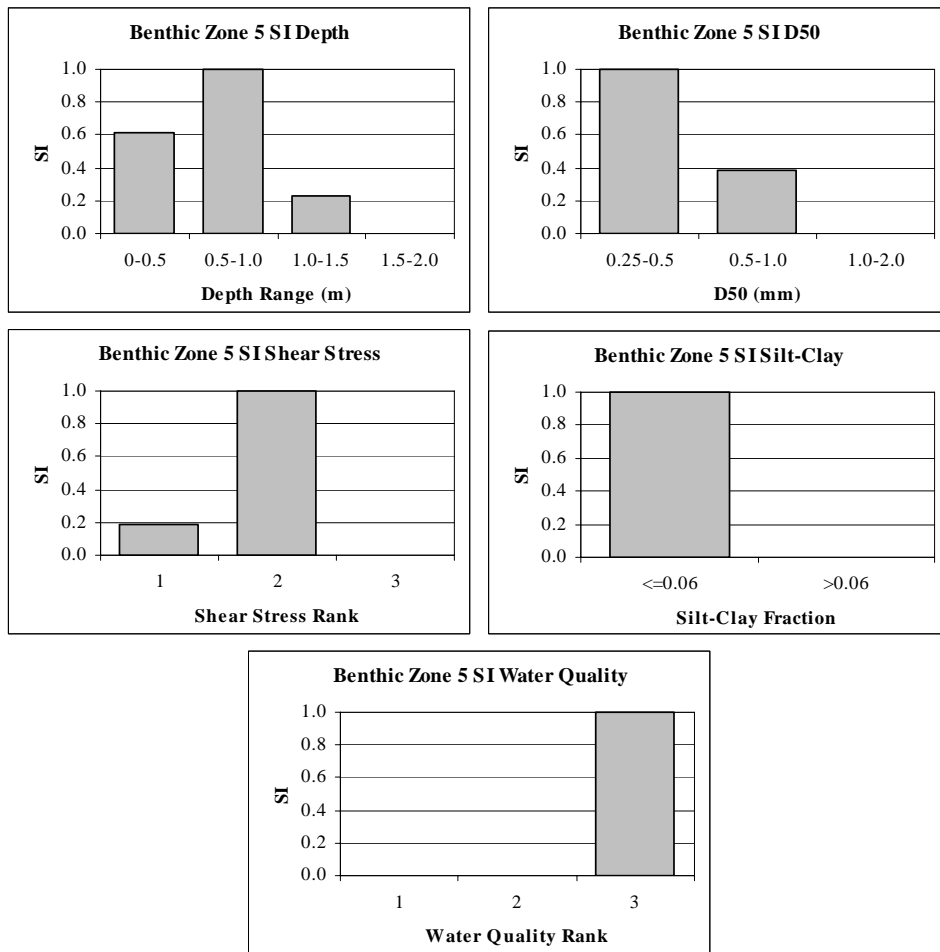


Benthic Zone III SI plots.



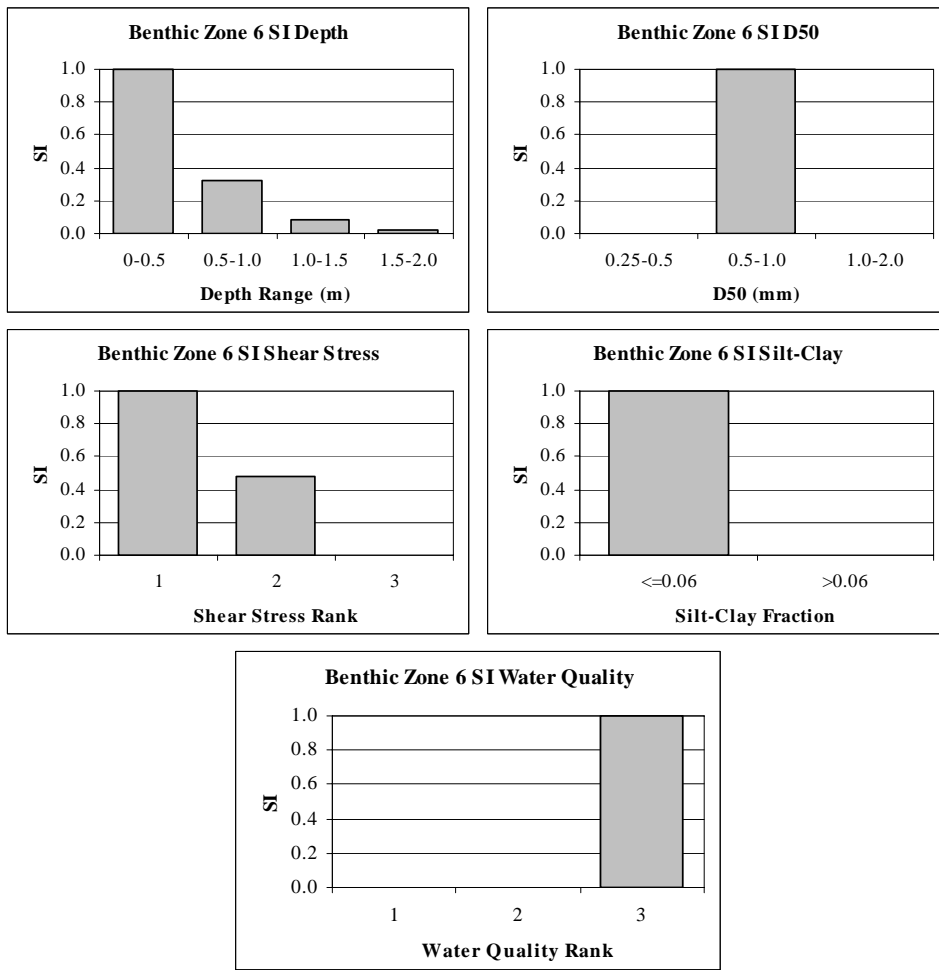
Benthic Zone IV SI plots.

APPENDIX C: Suitability Index (SI) plots of abiotic parameters for selected indicators (cont.).

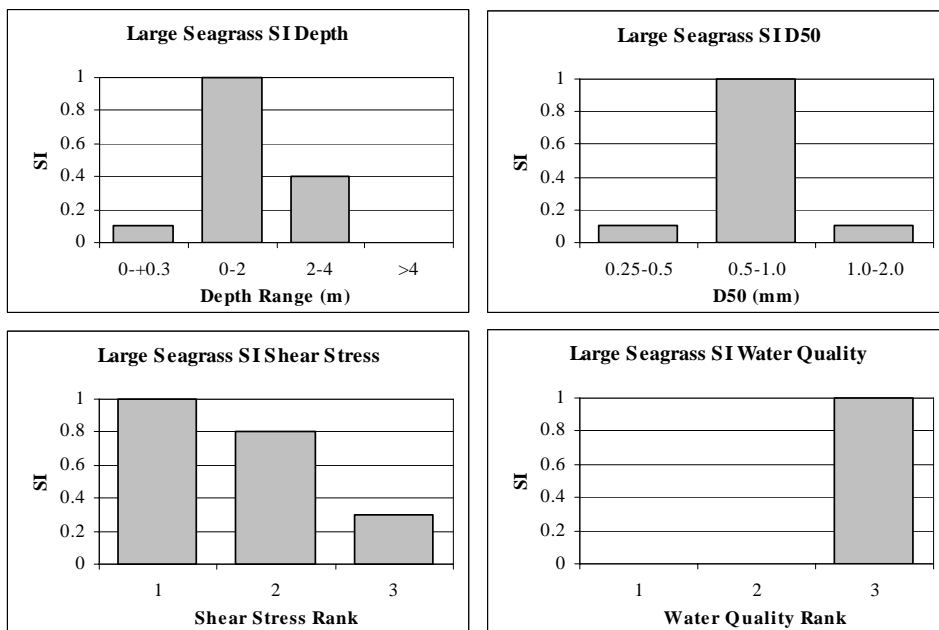


Benthic Zone V SI plots.

APPENDIX C: Suitability Index (SI) plots of abiotic parameters for selected indicators (cont.).

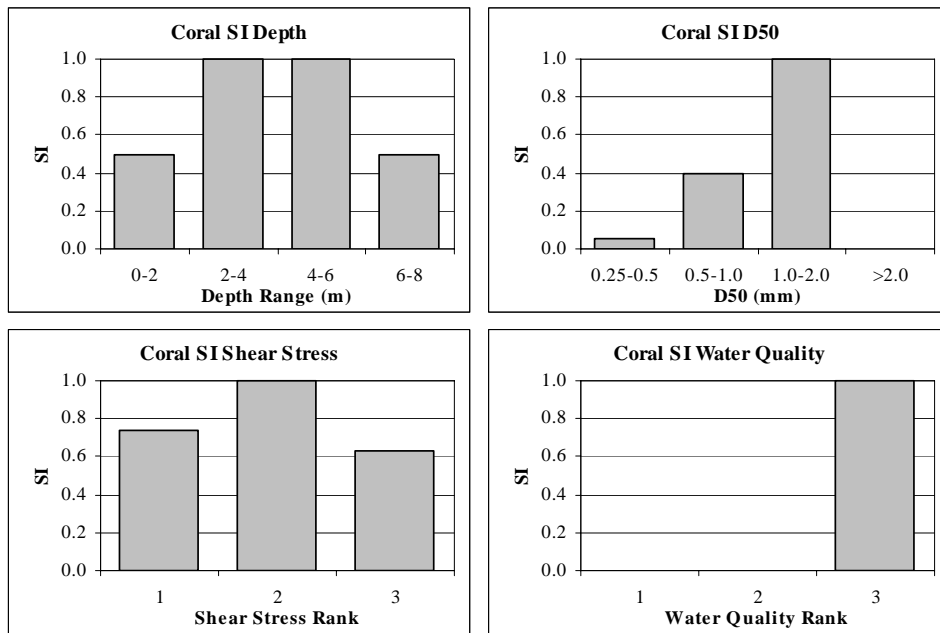


Benthic Zone VI SI plots.



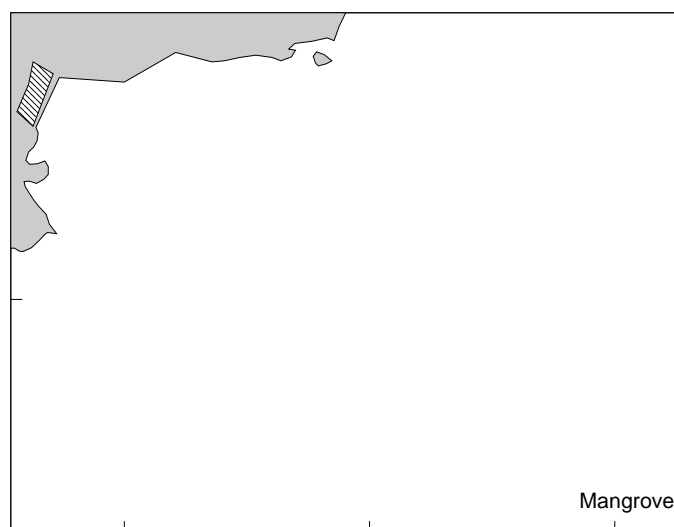
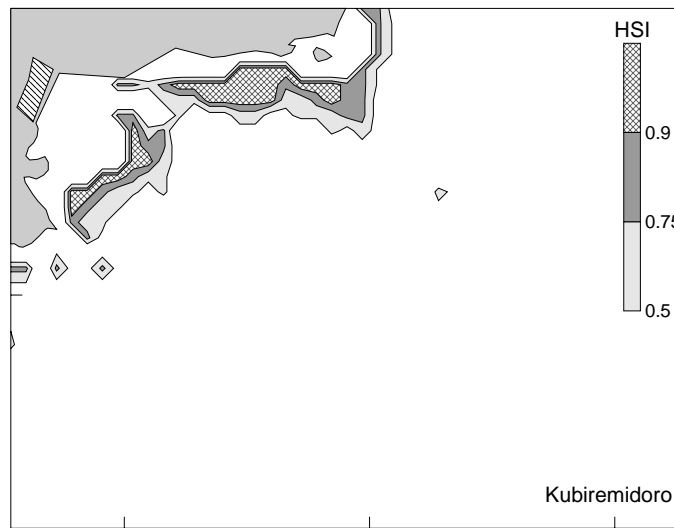
Large seagrass area SI plots.

APPENDIX C: Suitability Index (SI) plots of abiotic parameters for selected indicators (cont.).

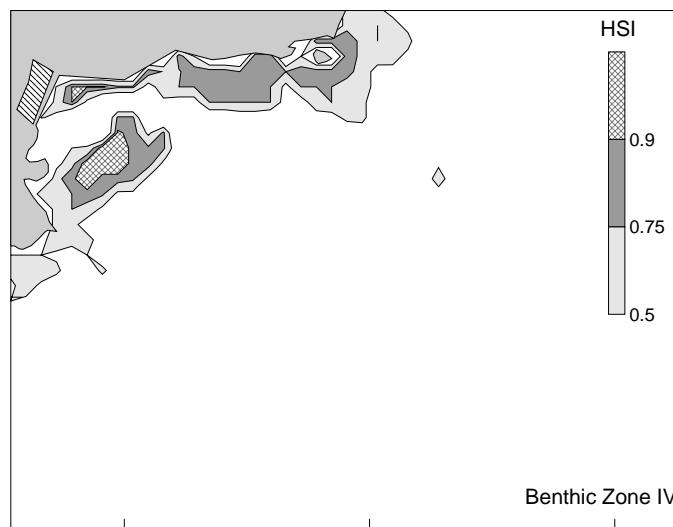
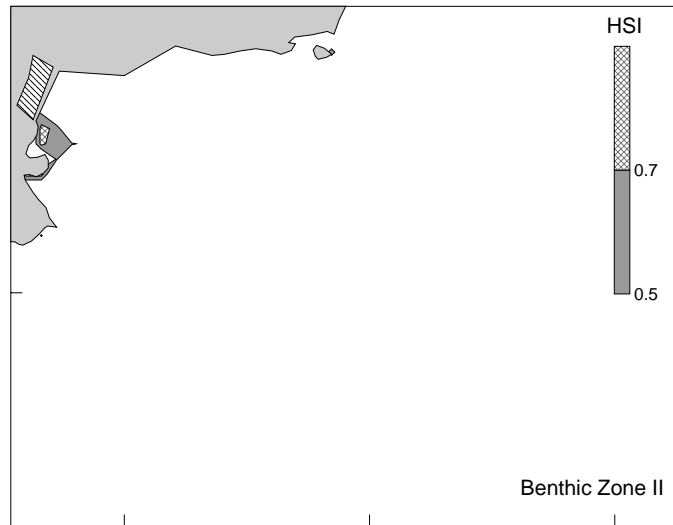


Coral area SI plots.

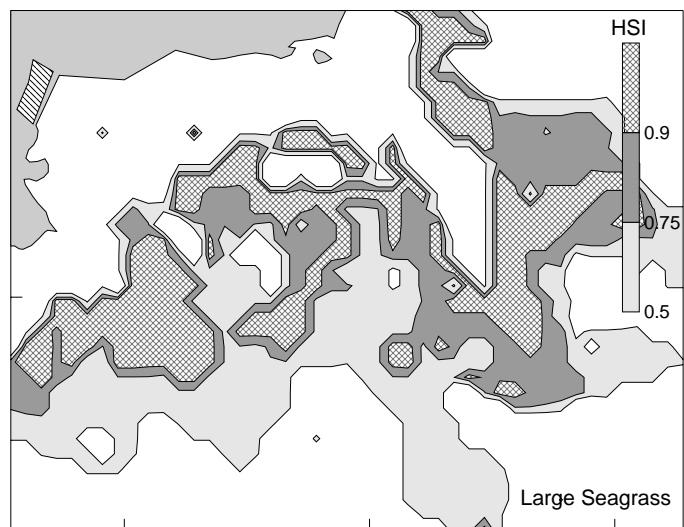
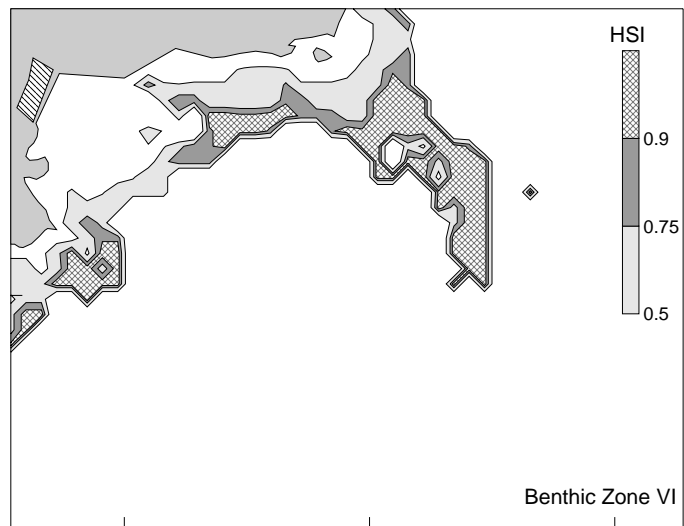
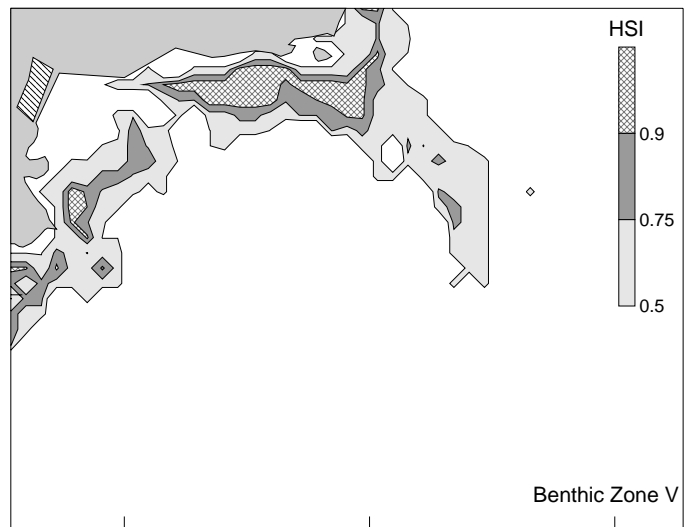
APPENDIX D: Habitat Suitability Index (HSI) maps showing optimal areas for the selected indicators.



APPENDIX D: Habitat Suitability Index (HSI) maps showing optimal areas for the selected indicators (cont.).



APPENDIX D: Habitat Suitability Index (HSI) maps showing optimal areas for the selected indicators (cont.).



APPENDIX D: Habitat Suitability Index (HSI) maps showing optimal areas for the selected indicators (cont.).



APPENDIX E: Proposed monitoring features, frequency and purpose for Awase wetland.

Category	Attribute	Frequency	Analysis/Use
Topography	Bathymetry	Every 3 years	Comparison with previous baseline. Co-ordinated with sediment monitoring.
	Mangrove Area	Annual	Changes in topography due to sediment accumulation
Sediment Properties	Particle Size and Distribution	Annual	Comparison with previous baseline. Co-ordinated with bathymetry monitoring.
	Sediment Quality	Annual	Check nutrients and toxics in sediment samples. Co-ordinated with bathymetry monitoring.
Hydrology	Rainfall	Monthly averages. Wet season: 1month hourly time series	Collect for annual baseline data. Examine rainfall to tidal flat during wet season.
	Freshwater Flows	Monthly averages. Wet season: 1month time series.	Collect for annual baseline data. Examine freshwater inputs during wet season.
	Groundwater	Annually	Check water table level, and water quality (salinity, nutrients).
Coastal Processes	Tides (profile, currents)	Annually (spring tidal cycle)	Check tidal currents, inundation regime, exposure of tidal flat etc.
	Wind waves and long period waves (height, period, direction)	Monthly averages, percent cumulative or histogram of waveheight and period.	Statistical data, necessary for interpretation of physical/biological/chemical results.
	Wind (speed, direction)	Monthly averages, percent cumulative or histogram of wind speed and direction.	Statistical data, necessary for interpretation of physical/biological/chemical results.
	Typhoon (wave and wind climate data)	Each typhoon - mean waveheight, period, wave direction, duration, wind speed and wind direction.	Necessary for interpretation of physical/biological/chemical results.

APPENDIX E: Proposed monitoring features, frequency and purpose for Awase wetland (cont.).

Category	Attribute	Frequency	Analysis/Use
Habitat	Seagrass, Macroalgae and Coral	Annual insitu survey	To examine status and influence of landfill development, including species identification, distribution and density. On-going monitoring.
	Mangrove	Annual survey	Species identification, distribution and density. On-going monitoring.
Fauna	Bacteria	Seasonal survey	Density to examine development impact and ongoing monitoring (system energy flow).
	Invertebrates	Seasonal survey of macrofauna and microfauna.	Species composition, density to examine development impact and ongoing monitoring to assess population stability.
	Fish	Seasonal survey dependent on specie behaviour.	Species composition, density to examine development impact and ongoing monitoring to assess population stability.
	Birds	Weekly survey during migratory period. Annual during Nesting/fledging.	Species composition, density to examine development impact and ongoing monitoring. Examine fledging species composition and density.
Flora	Bishoalgae, Algae	Seasonal	Species composition, density to examine development impact and ongoing monitoring to assess population stability.