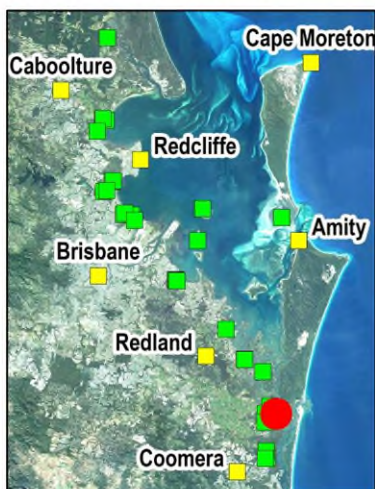
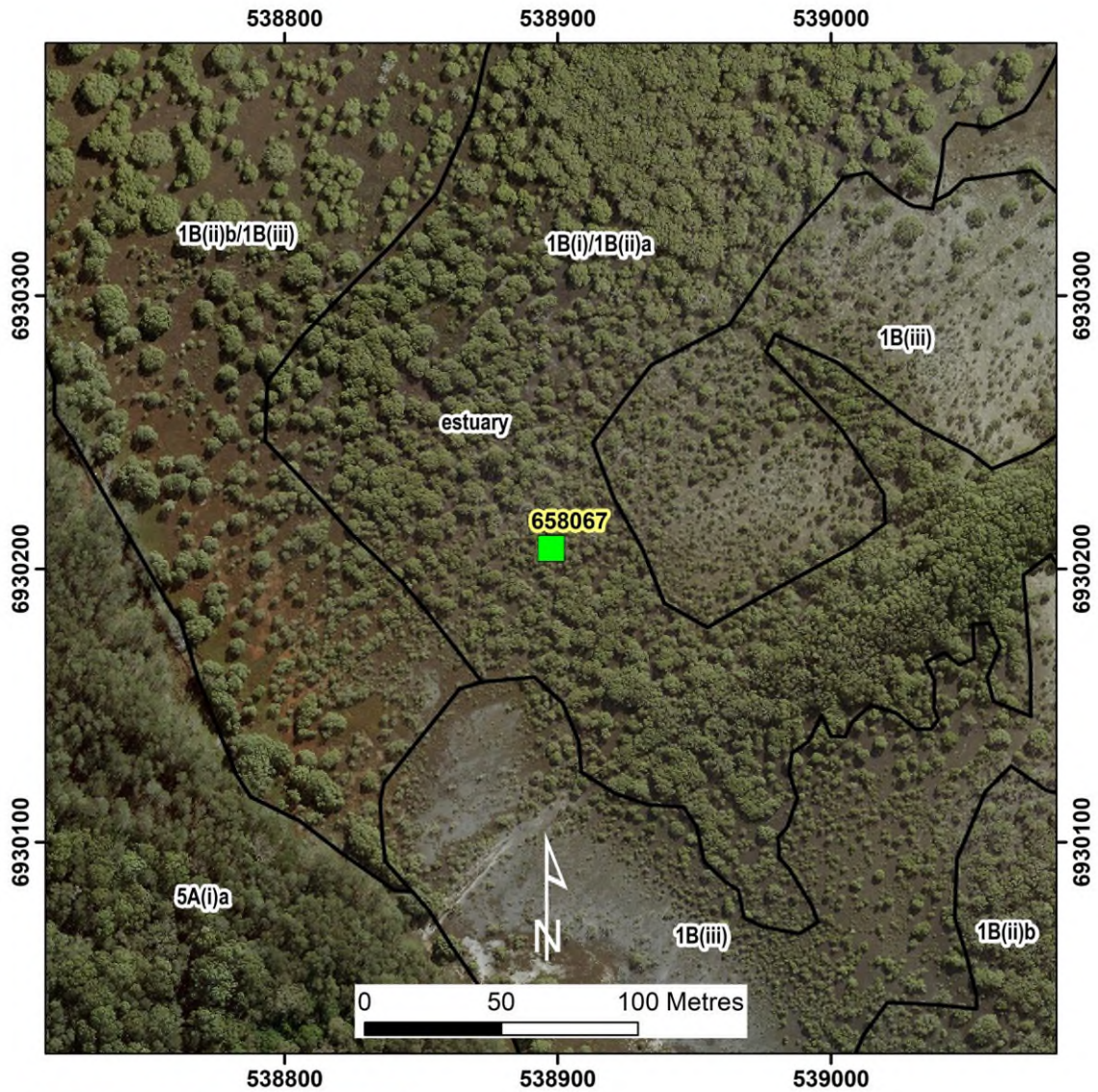


Eden Island (site ID = 658067) Tall Shrubland



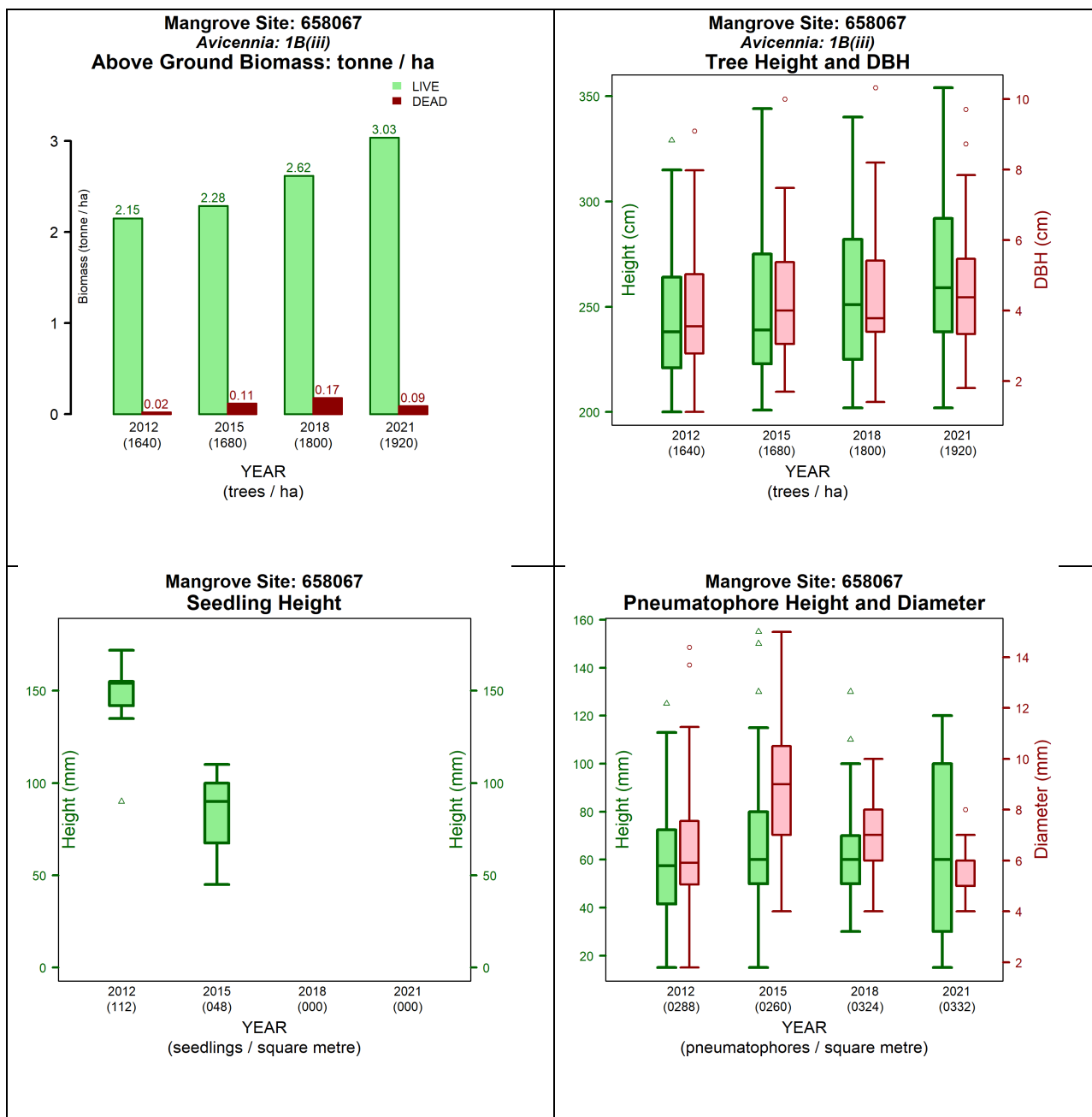


Figure 1. Measurements at site 658067 between 2012 and 2021 (left to right and top to bottom):

- Above ground biomass and density temporal assessment
- Tree height, diameter at breast height (DBH) and stem density temporal assessment
- Pneumatophores height, diameter, and density temporal assessment

Seedling height and density temporal assessment.

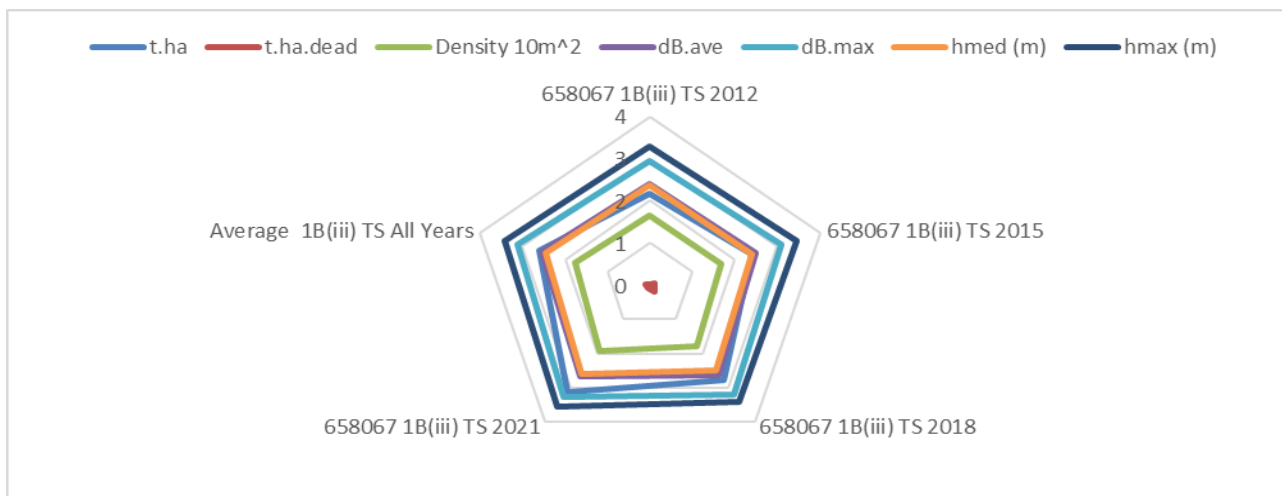


Figure 2. Structural changes over the years for Site 658067 in comparison to average of all sites of vegetation community type 1B(iii) by structural formations. The graph indices: t.ha is the live biomass (tonnes) in a hectare; t.ha.dead is the dead biomass (tonnes) in a hectare; Density 10m² is the number of trees in 10m square; dB.ave is the average diameter at breast height in centimetres; dB.max is the maximum diameter at breast height in centimetres; hmed (m) is the median tree height (meters); hmax (m) is the maximum tree height (meters).

Table 1. Queensland Biodiversity Ecological Information System (QBEIS) temporal assessment for site 658067

Date	30.07.2012	27.07.2015	11.07.2018	16.08.2021
E Spp.				
T1 Spp.				
T1 Med Canopy Height				
T1 Range low				
T1 Range High				
T1 Crown Cover				
T1 Stem Count				
T2 Spp.				
T2 Med Canopy Height				
T2 Range low				
T2 Range high				
T2 Crown Cover				
T2 stem count				
S1 Spp.	<i>Avicennia marina</i> subsp. <i>australasica</i>	<i>Avicennia marina</i> subsp. <i>australasica</i>	<i>Avicennia marina</i> subsp. <i>australasica</i>	<i>Avicennia marina</i> subsp. <i>australasica</i>
S1 Med Canopy Height	2.5	2.7	2.7	2.7
S1 Range low	2	2	2	2
S1 Range high	3	3.5	3.5	3.5
S1 Crown Cover	38	50	58	68
S1 stem count	40	52	56	65

S2 Spp.	<i>Avicennia marina</i> subsp. <i>australasica</i>	<i>Avicennia marina</i> subsp. <i>australasica</i>	<i>Avicennia marina</i> subsp. <i>australasica</i>	<i>Avicennia marina</i> subsp. <i>australasica</i>
S2 Med Canopy Height	1.5	1.5	1.5	1.5
S2 Range low	1	1	1	1
S2 Range high	2	2	2	2
S2 Crown Cover	20	35	10	30
S2 stem count	27	46	48	38
G Spp.	<i>Avicennia marina</i> subsp. <i>australasica</i> ; <i>Suaeda arbusculoides</i>	<i>Avicennia marina</i> subsp. <i>australasica</i> ; <i>Suaeda arbusculoides</i>	<i>Avicennia marina</i> subsp. <i>australasica</i>	<i>Avicennia marina</i> subsp. <i>australasica</i>
G Med Canopy Height	0.2	0.2	0.2	0.5
G Range low	0.1	0.1	0.1	0.1
G Range high	1	0.8	0.8	1
G Cover	60	25	10	10
Individual Covers	55; 5	20; 5	10	10

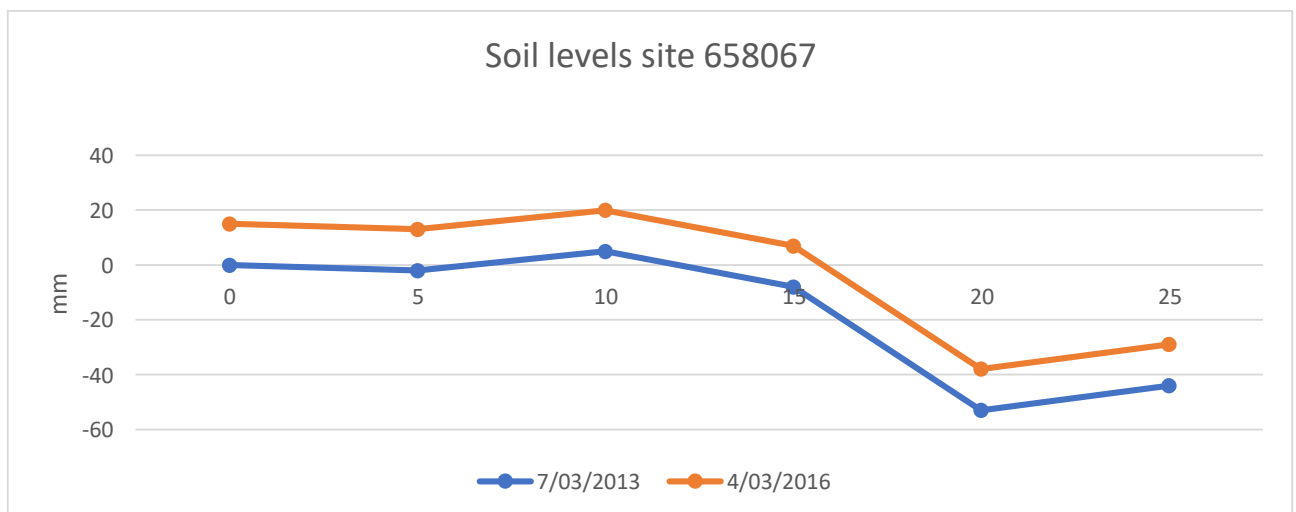


Figure 3. Soil surface elevation measurements (mm) are taken across the QBEIS sites using dumpy level.

Summary

1. S1, S2 mainly stable with *Avicennia marina* subsp. *australasica*; Ground layer in the first periods contained *Avicennia marina* subsp. *australasica*; *Suaeda arbusculoides* while in the last period no *Suaeda arbusculoides* was recorded.
2. S1 shrub height and cover slightly increased; S2 increased stem count; ground cover decreased.
3. Mean tree heights and DBH have increased. Densities increased by 9.7% leading to an increase of 28.6% in above ground biomass in the site.
4. Increase (from 0.9% in 2012 to 6.3% in 2018) of the proportion of dead to live biomass within the site.

5. Pneumatophores mean height is stable, but the range has reduced while mean girth has increased over the years.
6. Seedlings have been reduced in size and densities; no seedlings were recorded in 2018.
7. Soil level has accreted during the first 3 years and were not taken in 2018 and 2021.



Figure 4. Photograph of Site 658067 *Avicennia marina* subsp. *australasica* community type 1B(iii) Tall Shrubland.