RESEARCH PUBLICATION No.21

Part 5

Maps detailing the distribution of dugongs and sea turtles for use in rezoning the Great Barrier Reef Marine Park

SECTION 1

Dugong sightings and density distribution maps in the Great Barrier Reef Marine Park from Torres Strait south to Cape Bedford

Figure 11: The survey area from Campbell Point to Cape Melville (Princess Charlotte Bay) showing the numbers and positions of the transects and dugong sightings in November 1985. The numbers associated with the sightings do not necessarily reflect the sizes of the actual groupings observed.

Figure 12: The distribution of dugong density in the survey area from Campbell Point to Cape Melville (Princess Charlotte Bay) in November 1985 with an overlay of the GBRMPA zoning plan for this area.

Figure 13: Incidental dugong sightings between Cape Grenville and Cape Melville in relation to areas protected by MNPA zoning or above.

Figure 14: The distribution of known seagrass beds in the survey area from Campbell Point to Cape Melville (Princess Charlotte Bay) with an overlay of the GBRMPA zoning plan for this area. The ground-truthed seagrass data are from Coles *et al.*, (1985).

Figure 15: The survey area from Cape Melville to Cape Bedford showing the numbers and positions of the transects and dugong sightings in November 1984. The numbers associated with the sightings do not necessarily reflect the sizes of the actual groupings observed.

Figure 16: The survey area from Cape Melville to Cape Bedford showing the numbers and positions of the transects and dugong sightings in November 1985. The numbers associated with the sightings do not necessarily reflect the sizes of the actual groupings observed.

Figure 17: The distribution of dugong density in the survey area from Cape Melville to Cape Bedford in November 1984 with an overlay of the GBRMPA zoning plan for this area.

Figure 18: The distribution of dugong density in the survey area from Cape Melville to Cape Bedford in November 1985 with an overlay of the GBRMPA zoning plan for this area.

Figure 19: Incidental dugong sightings between Cape Melville and Cape Tribulation in relation to areas protected by MNPA zoning or above.

Figure 20: The distribution of known seagrass beds in the survey area from Cape Melville to Cape Bedford with an overlay of the GBRMPA zoning plan for this area. The ground-truthed seagrass data are from Coles *et al.*, (1985).

Figure 21: The Starcke River survey area showing the numbers and positions of the intensive transects and dugong sightings in November 1985. The numbers associated with the sightings do not necessarily reflect the sizes of the actual groupings observed. The distribution of seagrass beds is also shown. The ground-truthed seagrass data are from Coles *et al.*, (1985).

Reference:

Coles, R.G., Lee Long, W.J., and Squire, L.C. (1985) Areas of seagrass beds and prawn nursery grounds on the Queensland coast between Cape York and Cairns. Queensland Department of Primary Industries Information Series Q185017.

Key to Great Barrier Reef Marine Park Zones:

GUA - General Use 'A' Zone

GUB - General Use 'B' Zone

MNPA - Marine National Park 'A' Zone

MNPB - Marine National Park 'B' Zone

SRZ - Scientific Research Zone

PZ - Preservation Zone

X - excluded from the GBRMP

Note: the zones drawn on the overlays and maps following are based on the Great Barrier Reef Marine Park Authority's Zoning Information releases and are approximate only.

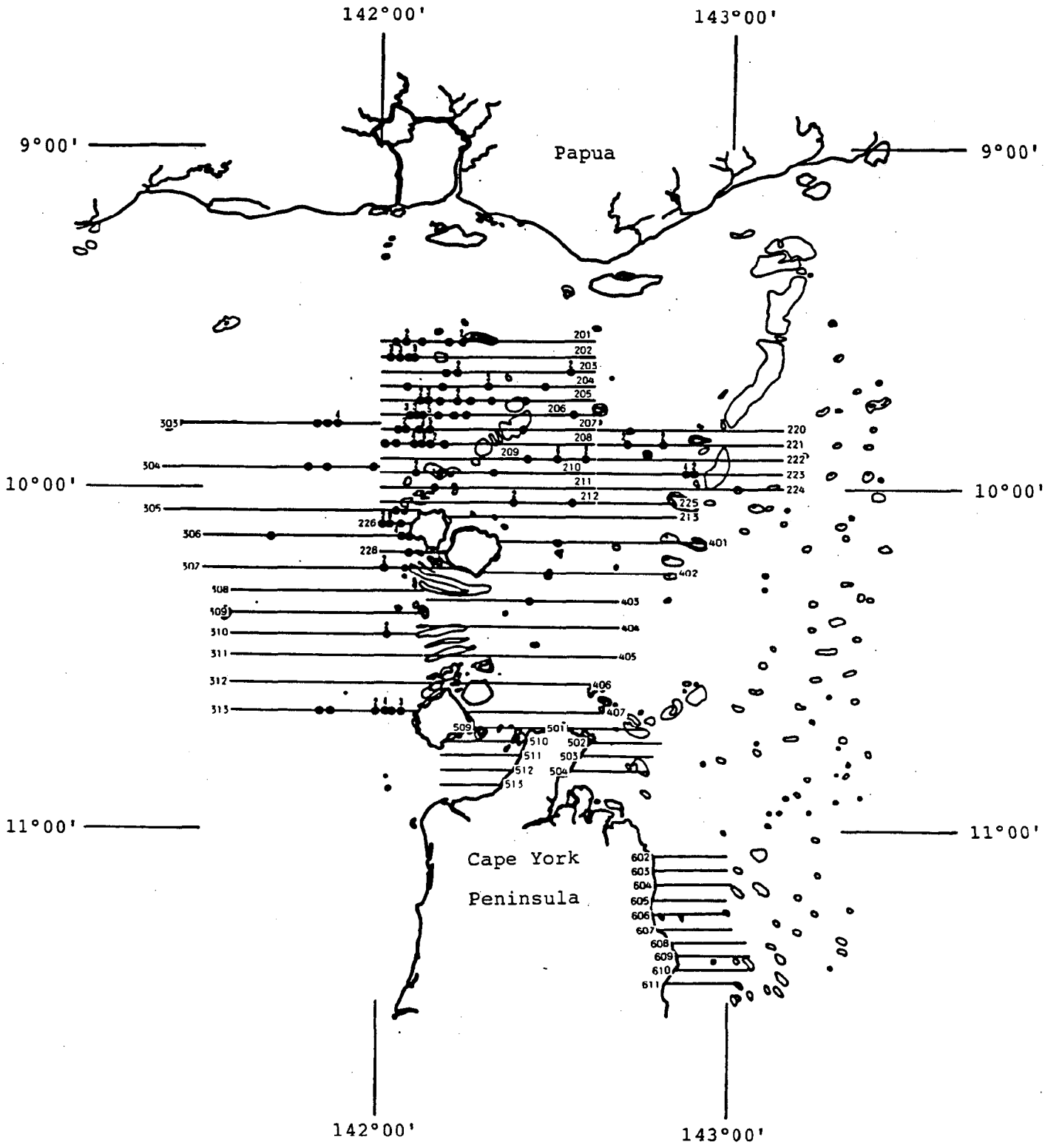

Figure 2: The Torres Strait survey area showing the numbers and positions of the transects and dugong sightings in March 1988. The numbers associated with the sightings do not necessarily reflect the sizes of the actual groupings observed.

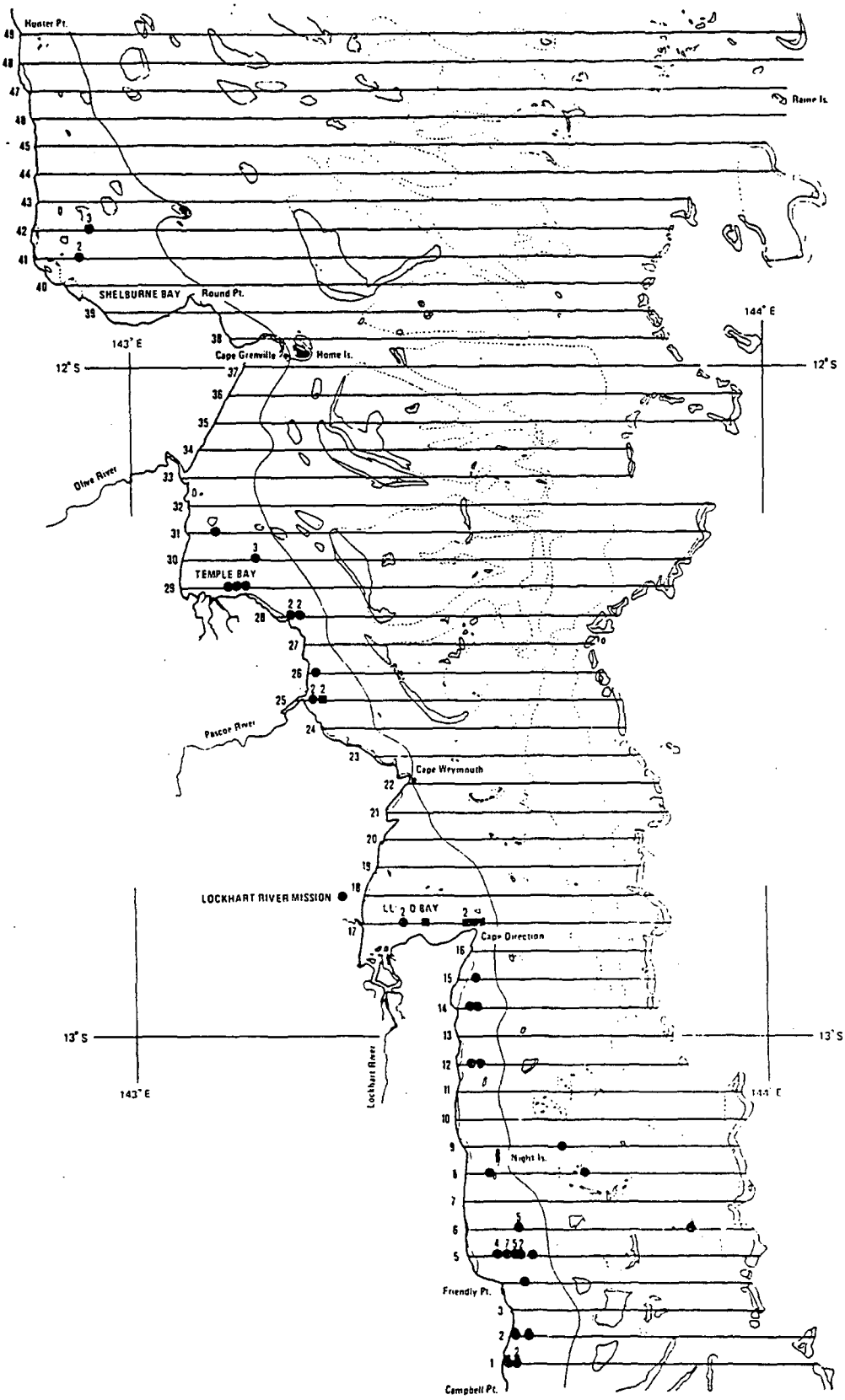

Figure 3: The survey area from Hunter Point to Campbell Point showing the numbers and positions of the transects and dugong sightings in April 1985. The numbers associated with the sightings do not necessarily reflect the sizes of the actual groupings observed. Square symbols indicate dugongs observed during test transects.

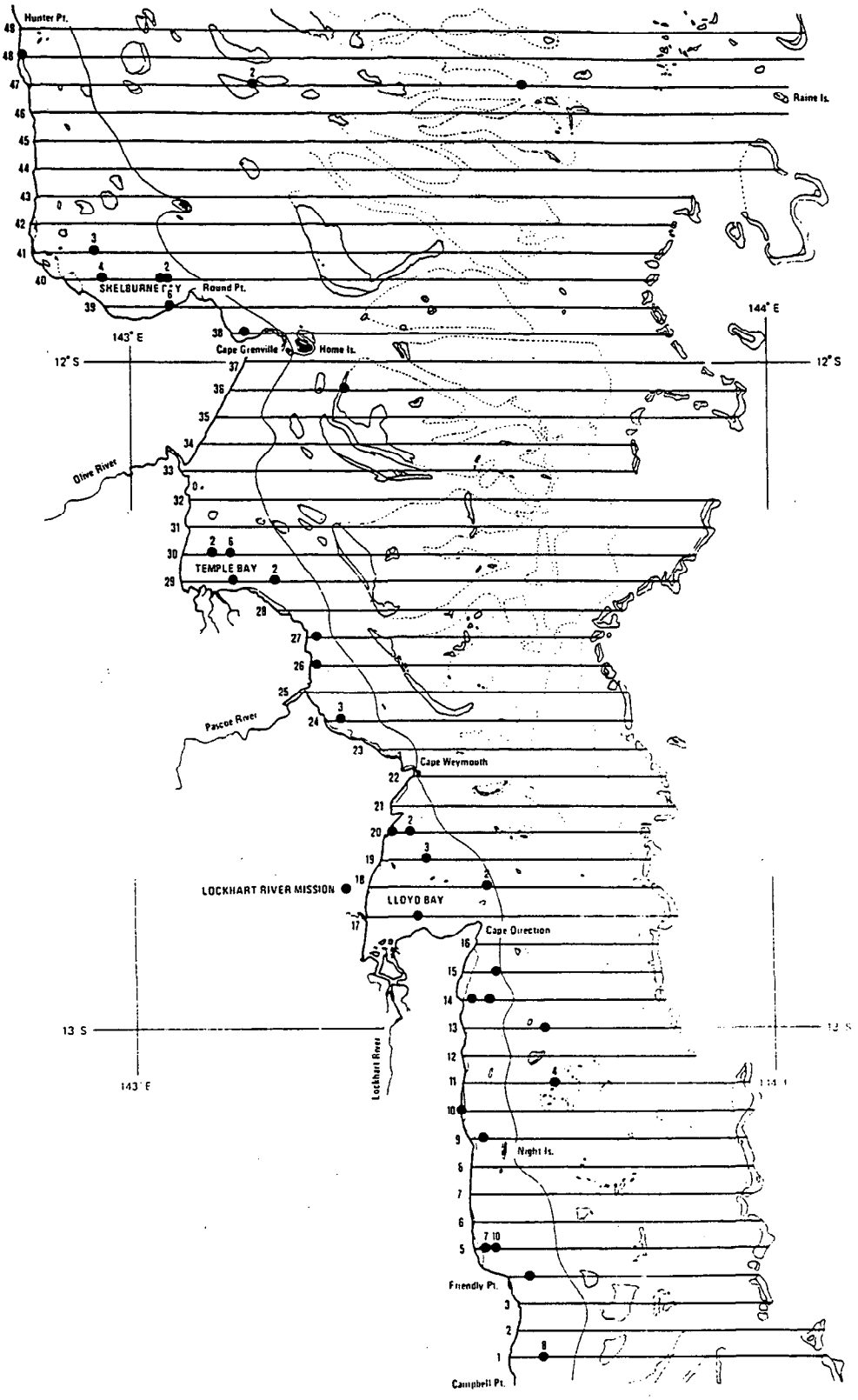

Figure 4: The survey area from Hunter Point to Campbell Point showing the numbers and positions of the transects and dugong sightings in November 1985. The numbers associated with the sightings do not necessarily reflect the sizes of the actual groupings observed.

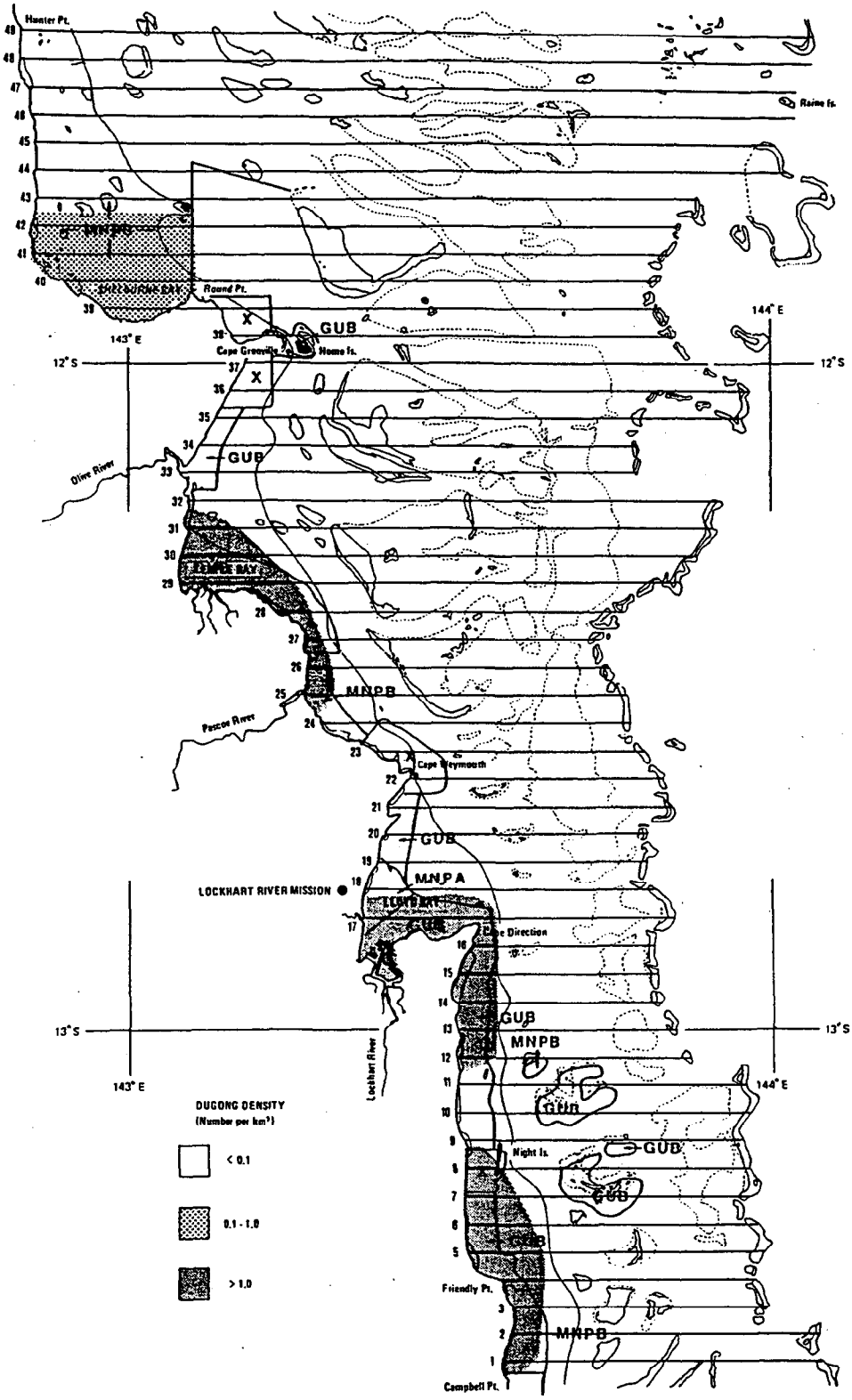

Figure 5: The distribution of dugong density in the survey area from Hunter Point to Campbell Point in April 1985 showing the numbers and positions of the transects with an overlay of the GBRMPA zoning plan for this area.

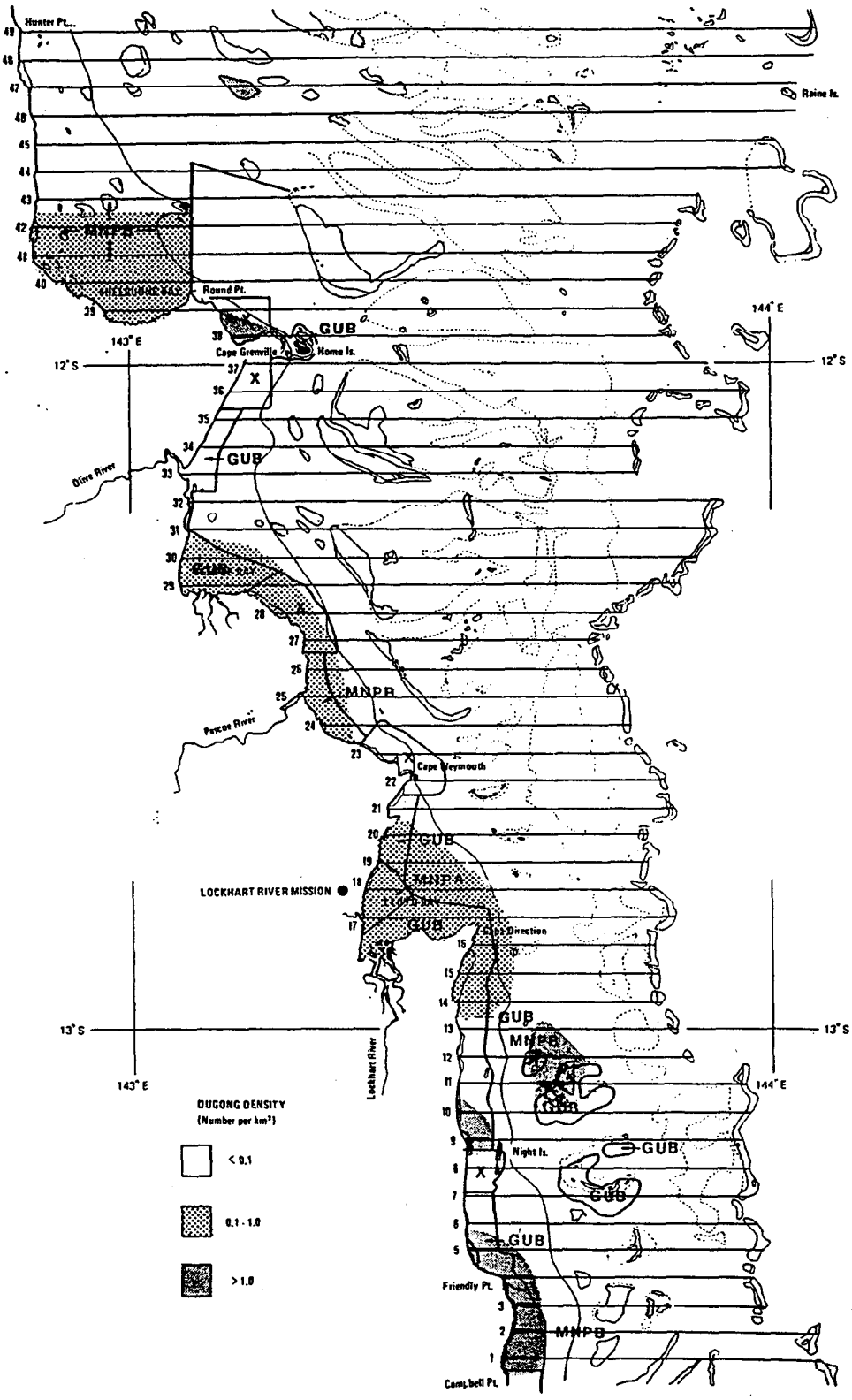

Figure 6: The distribution of dugong density in the survey area from Hunter Point to Campbell Point in November 1985 showing the numbers and positions of the transects with an overlay of the GBRMPA zoning plan for this area.

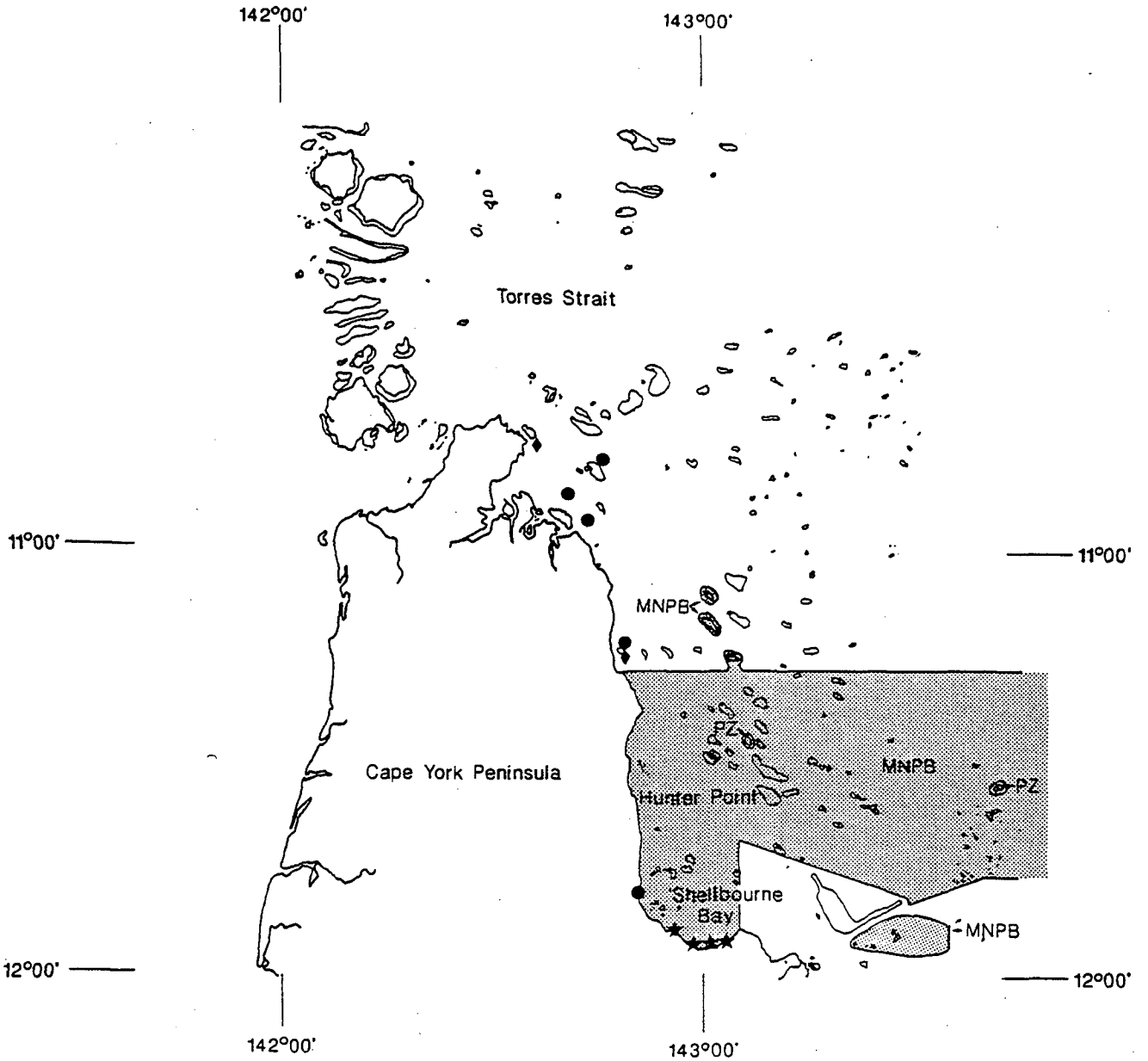

Figure 7: Incidental dugong sightings between the northern tip of Cape York Peninsula and Cape Grenville in relation to areas protected by MNPA zoning or above.

● One to five dugongs sighted on one date only

♦ One to five dugongs seen on more than one occasion or between six and twenty dugongs seen on at least one occasion

★ More than twenty dugongs sighted at least once

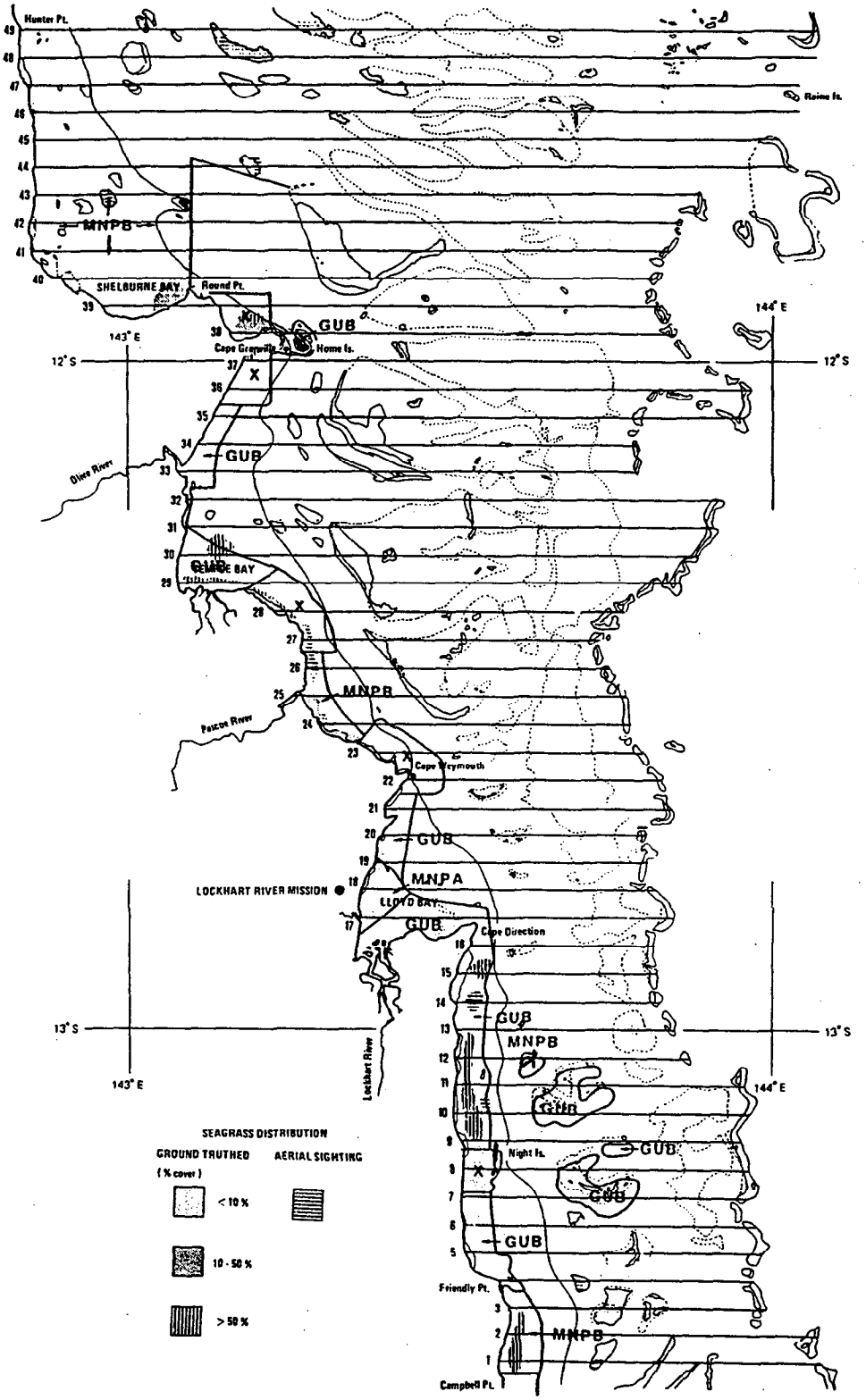

Figure 8: The distribution of known seagrass beds in the survey area from Hunter Point to Campbell Point with an overlay of the GBRMPA zoning plan for this area. The ground-truthed seagrass data are from Coles *et al.*, (1985).

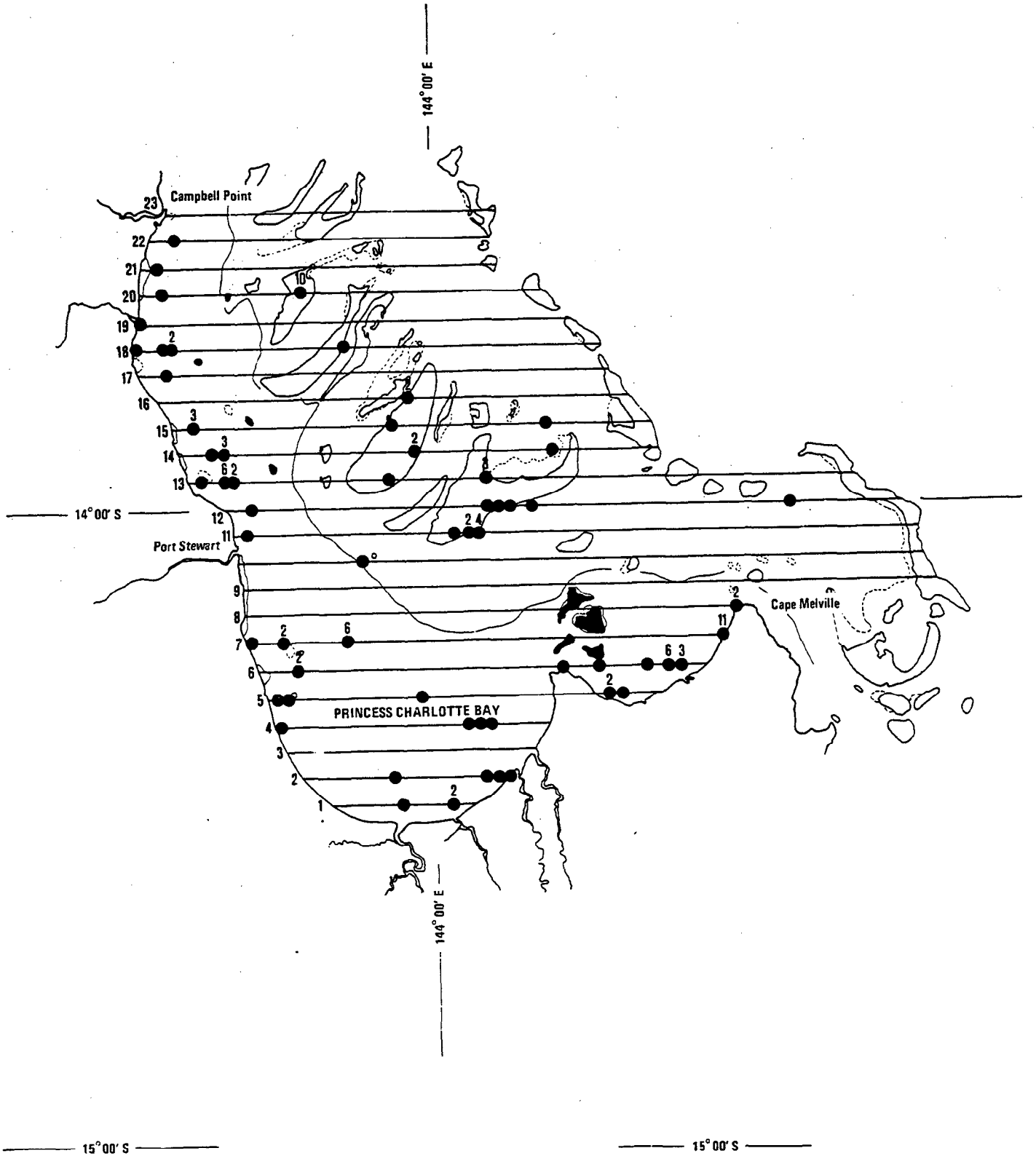

Figure 11: The survey area from Campbell Point to Cape Melville (Princess Charlotte Bay) showing the numbers and positions of the transects and dugong sightings in November 1985. The numbers associated with the sightings do not necessarily reflect the sizes of the actual groupings observed.

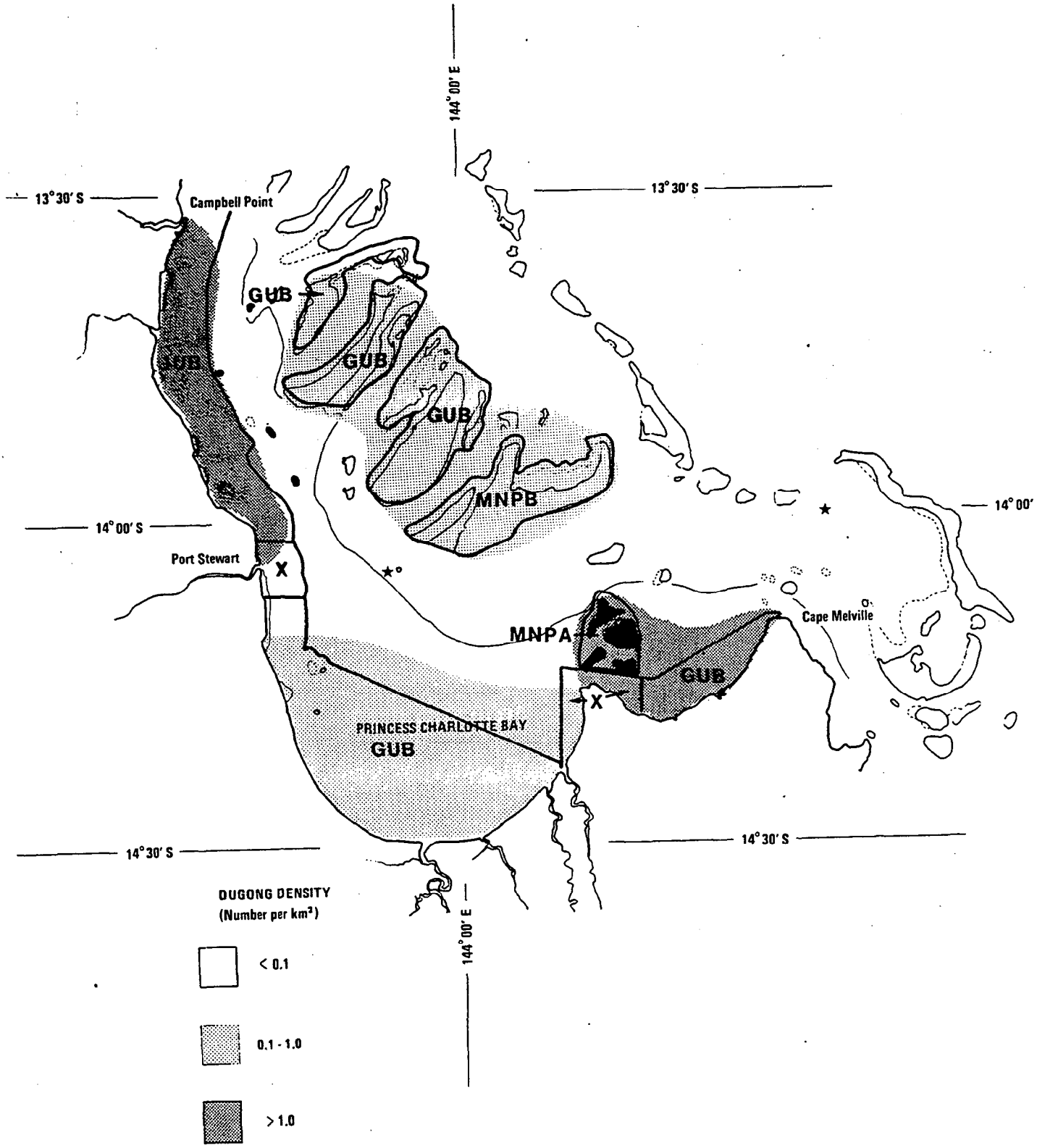

Figure 12: The distribution of dugong density in the survey area from Campbell Point to Cape Melville (Princess Charlotte Bay) in November 1985 with an overlay of the GBRMPA zoning plan for this area.

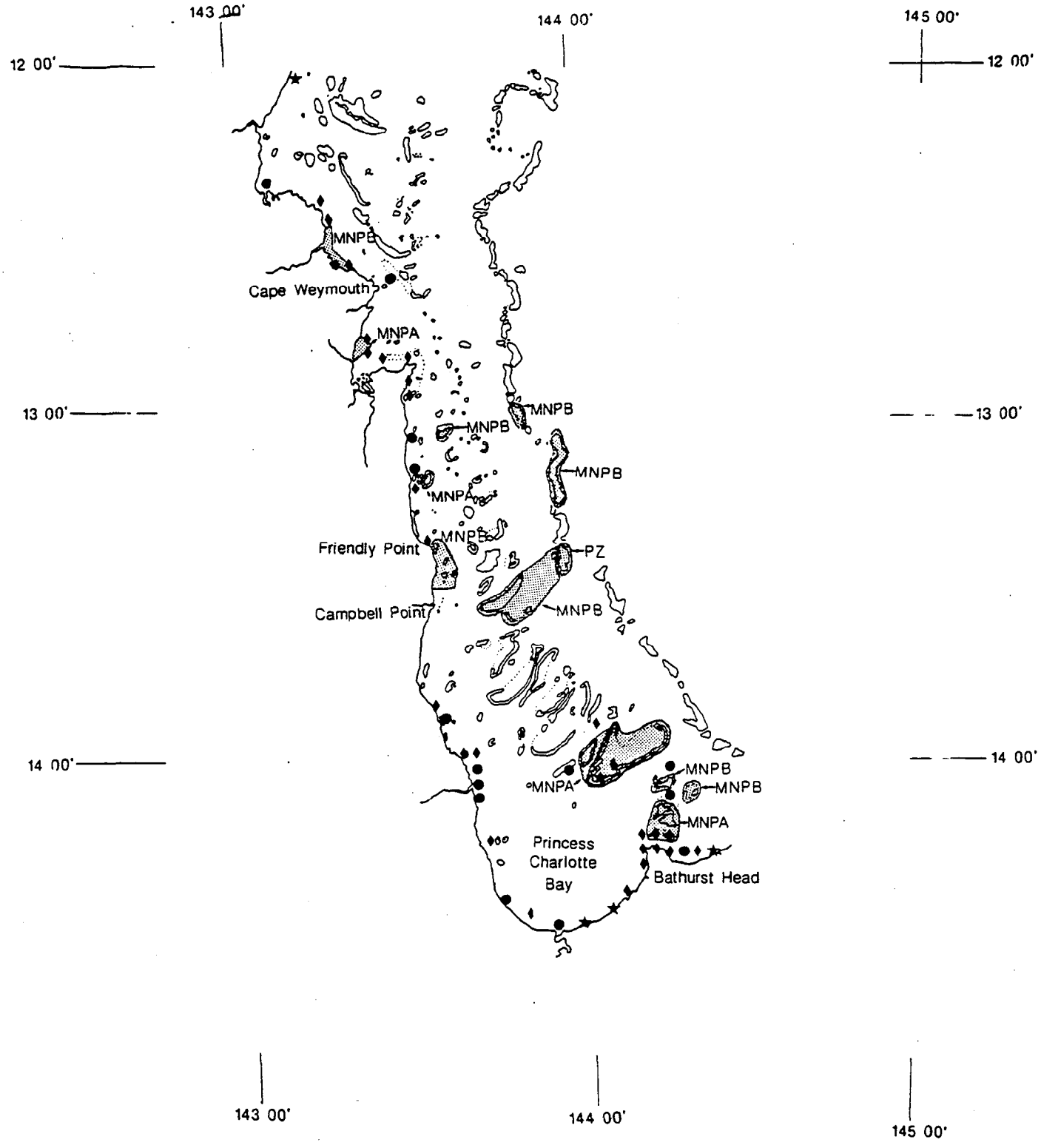

Figure 13: Incidental dugong sightings between Cape Grenville and Cape Melville in relation to areas protected by MNPA zoning or above.

● One to five dugongs sighted on one date only

♦ One to five dugongs seen on more than one occasion or between six and twenty dugongs seen on at least one occasion

★ More than twenty dugongs sighted at least once