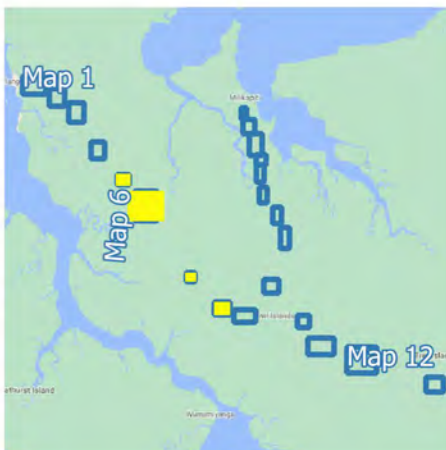


**Existing records of threatened flora and fauna (as of January 2021) - Maps 5-8**

- Key**
- Threatened flora
  - Threatened fauna
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Potential gravel pit survey area
  - Road realignment
- Background - ESRI Satellite / Google Maps



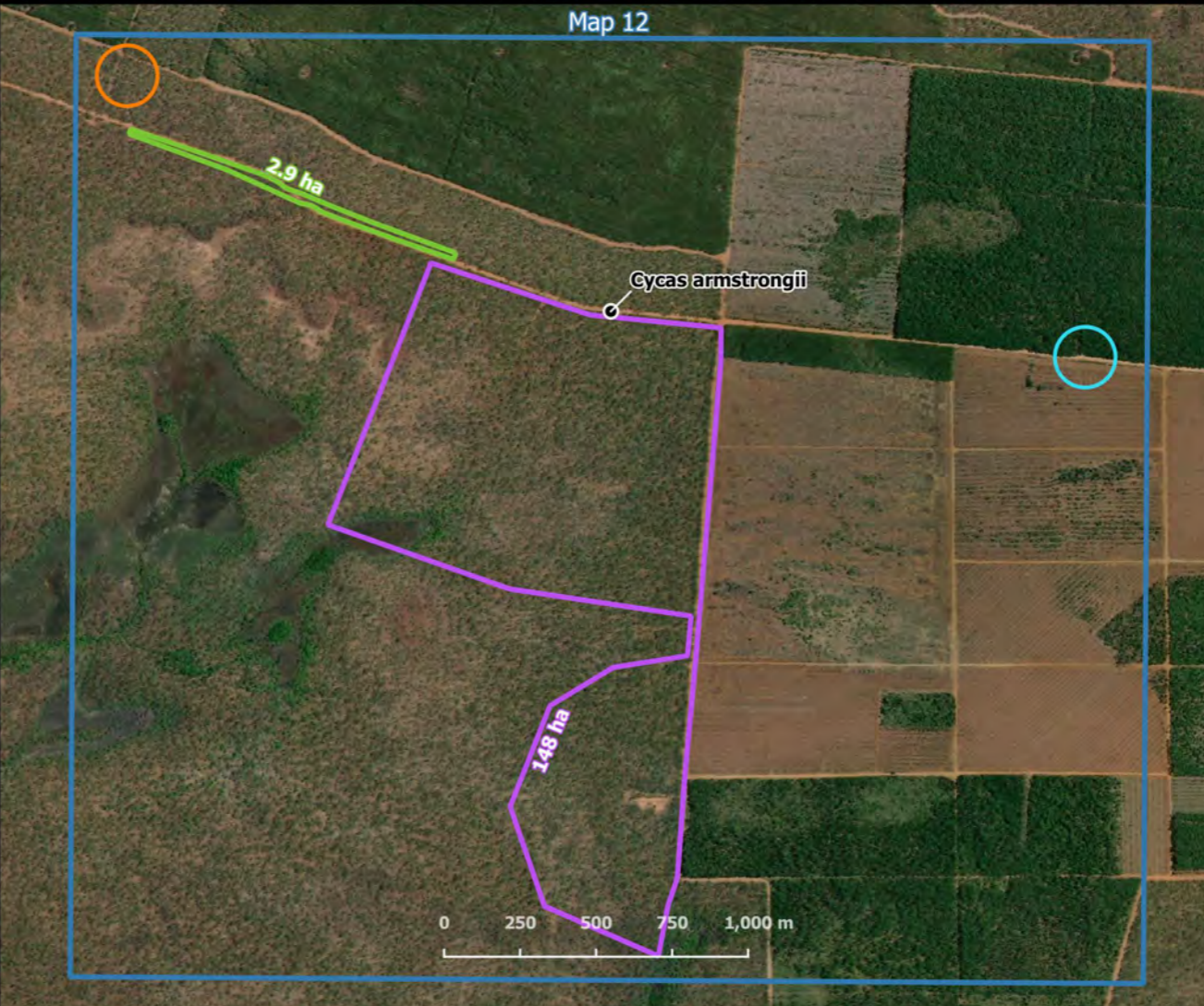
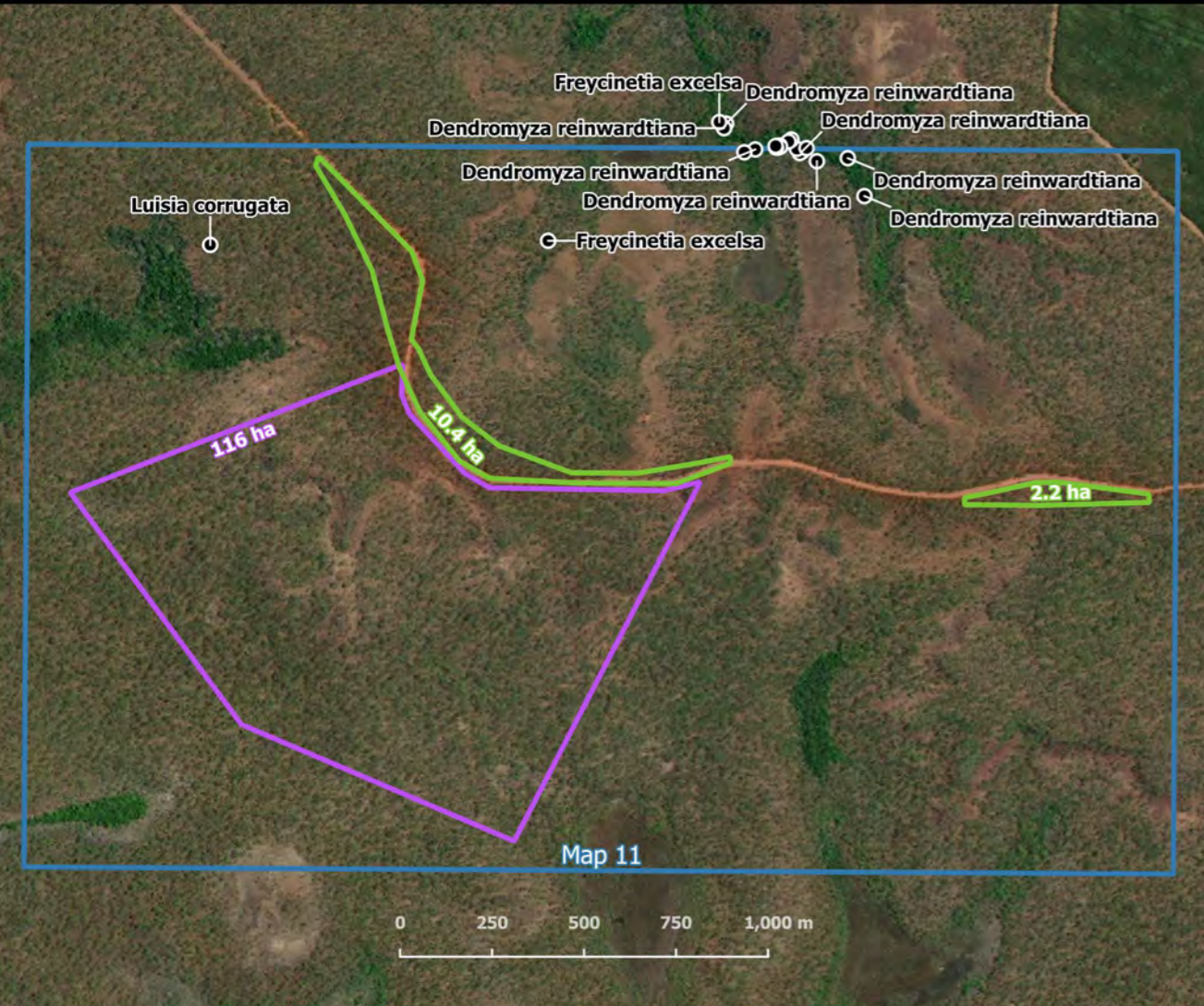
Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 7 October 2021  
 Datum: WGS84





### Existing records of threatened flora and fauna (as of January 2021) - Maps 9-12

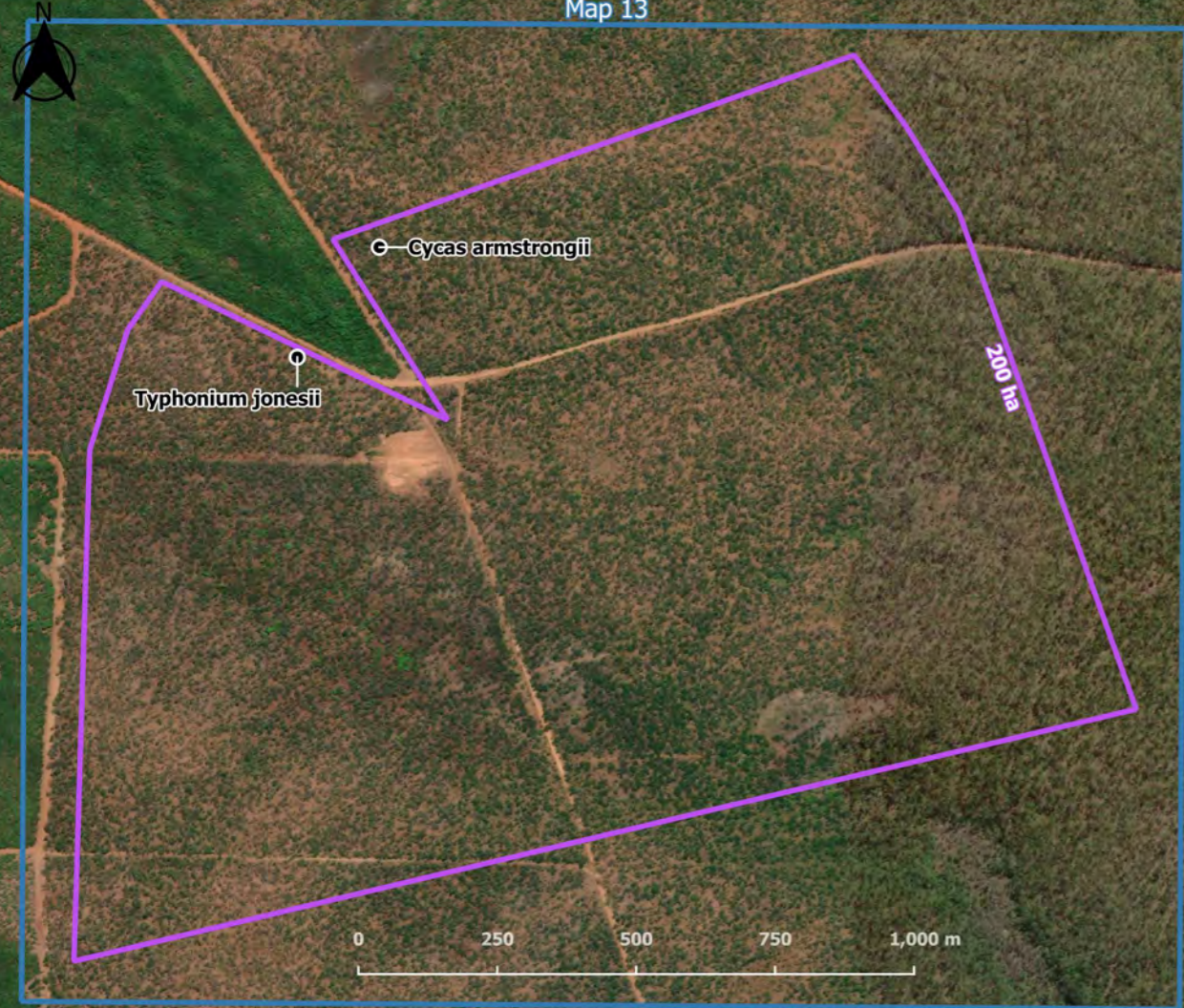
- Key**
- Threatened flora
  - Threatened fauna
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Background - ESRI Satellite



Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
Client: GHD  
Date: 7 October 2021  
Datum: WGS84



Map 13



Map 14



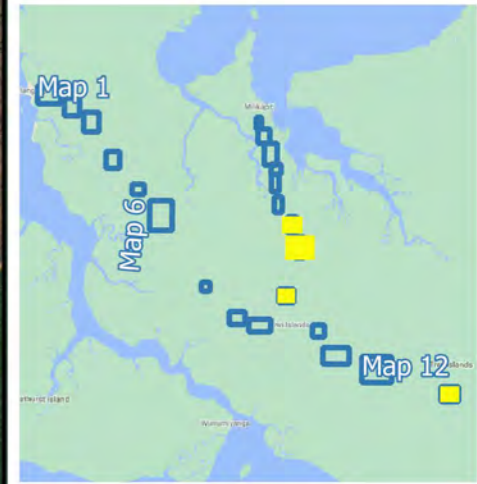
**Existing records of threatened flora and fauna (as of January 2021) - Maps 13-16**

- Key**
- Threatened flora
  - Threatened fauna
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Background - ESRI Satellite / Google Maps

Map 15



Map 16



Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 7 October 2021  
 Datum: WGS84

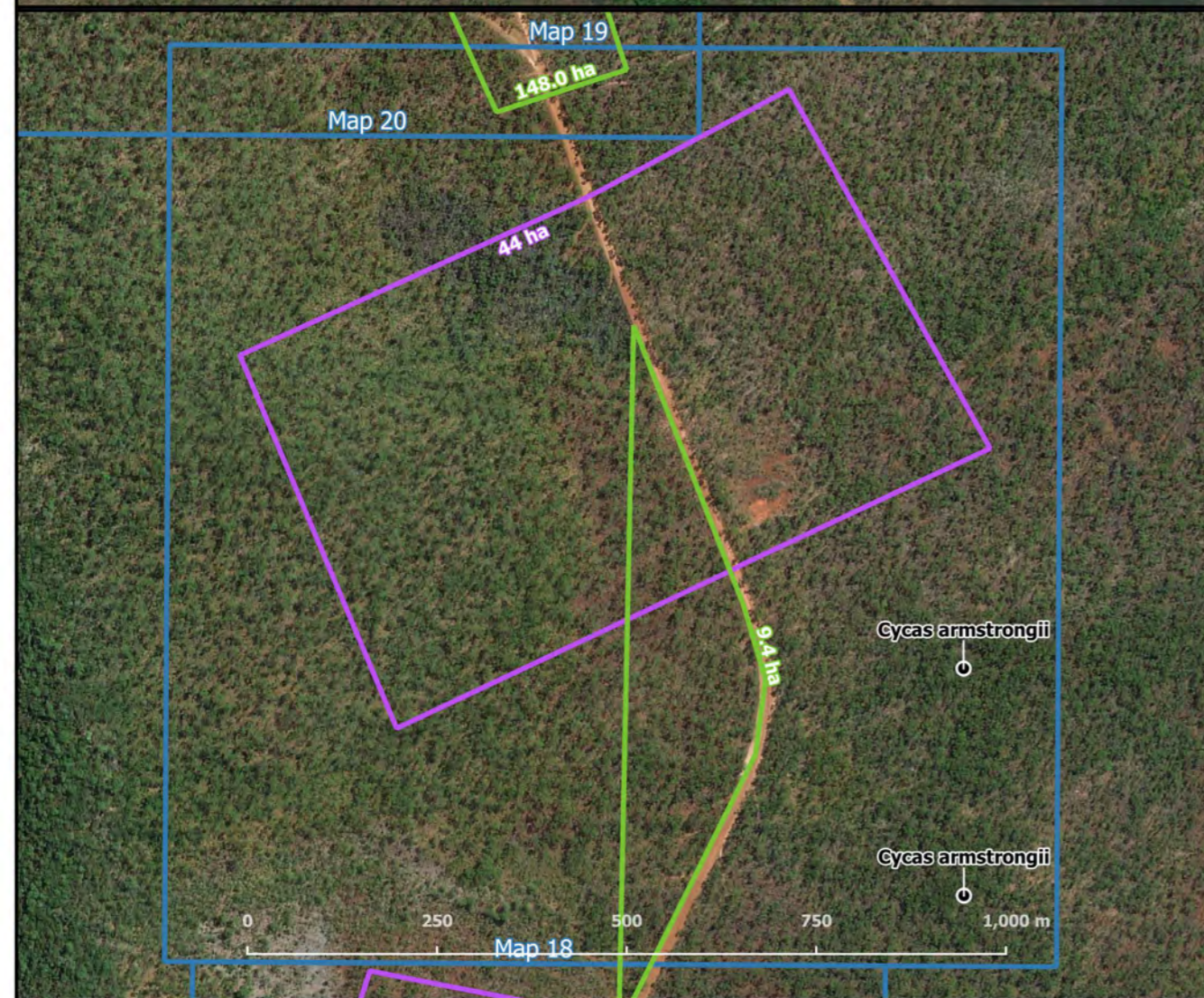
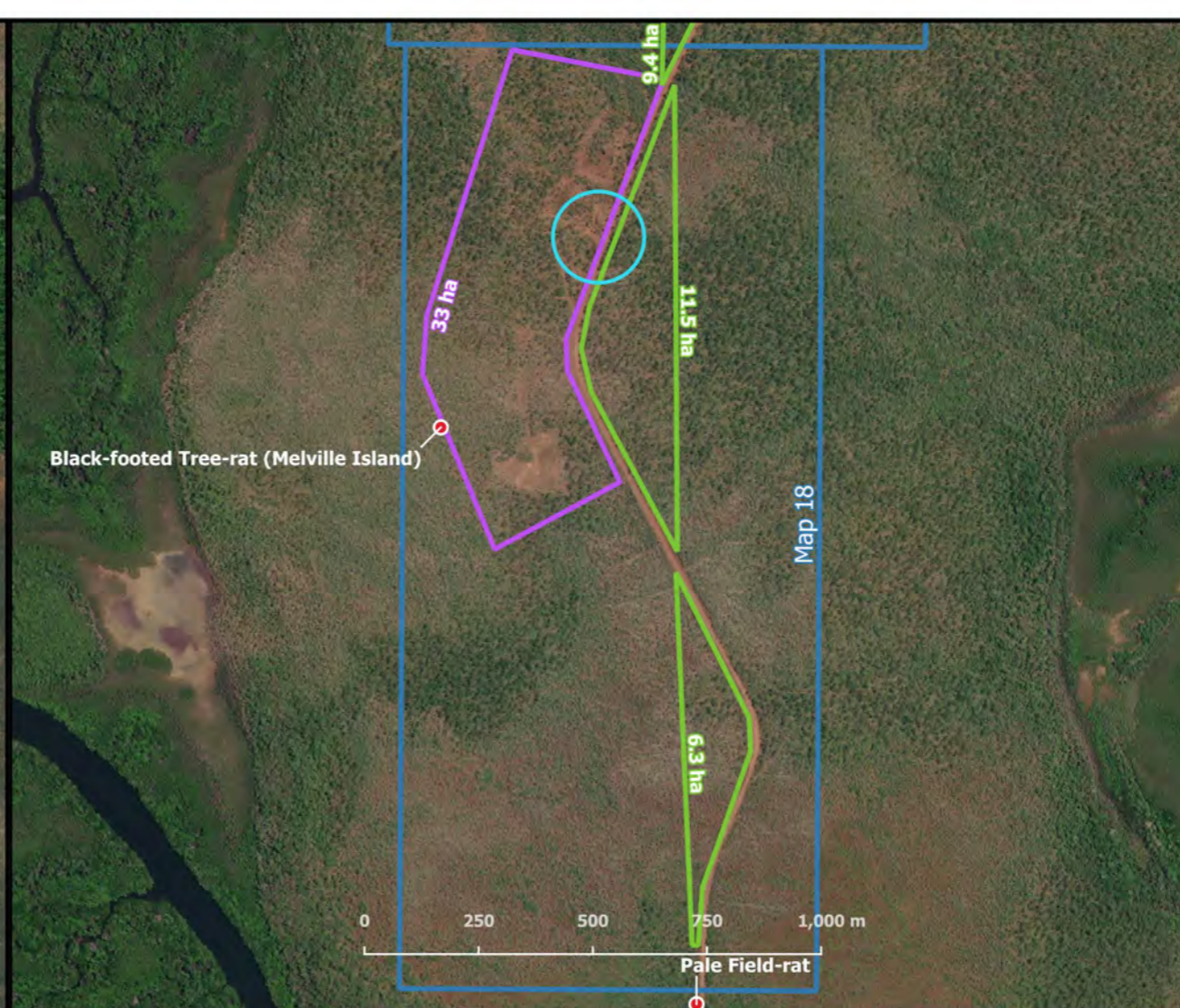


**Existing records of threatened flora and fauna (as of January 2021) - Maps 17-20**

**Key**

- Threatened flora
- Threatened fauna
- Map areas
- Existing bores 100 m buffer
- Water points 100 m buffer
- Gravel extraction area
- Road realignment

Background - ESRI Satellite / Google Maps



Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 7 October 2021  
 Datum: WGS84





## 17 Appendix D: Preliminary Likelihood of Occurrence Assessment

The preliminary assessment includes those species that may occur within the vicinity of the survey area. It excludes species that occur in habitats that obviously do not occur in or near the survey area, such as marine, mangrove inhabiting and/or migratory reptiles, birds and mammals.

Green shading indicates species known to or that are likely to, or possibly, occur.

Scientific Name	Common Name	TPWC Act <sup>28</sup>	EPBC Act <sup>29</sup>	No. records on Melville Island <sup>30</sup>	Likelihood of occurrence
<b>Threatened Flora</b>					
<i>Abrodictyum obscurum</i>	-	Endangered	-	14	Unlikely – known from rainforest.
<i>Burmannia sp. Bathurst Island</i>	-	Endangered	Endangered	70	Unlikely – known from rainforest.
<i>Calochilus caeruleus</i>	-	Vulnerable	-	3	Unlikely – while it is known to occur in swamps and seasonally inundated flats in open forest, wet heathland, and <i>Melaleuca</i> woodland on Melville Island, it has not been recorded since 1992 despite considerable survey effort from 1999 to 2002.
<i>Cycas armstrongii</i>	Armstrong's Cycad	Vulnerable	-	368	Present – recorded in the NT Flora Atlas and suitable habitat exists in study areas.
<i>Dendromyza reinwardtiana</i>	-	Vulnerable	-	122	Unlikely – known from wet rainforest.
<i>Elaeocarpus miegei</i>	-	Critically Endangered	-	56	Unlikely - in permanently moist soils in wet rainforest patches.
<i>Endiandra limnophila</i>	-	Vulnerable	-	205	Unlikely – known from rainforest.
<i>Freycinetia excelsa</i>	-	Vulnerable	-	64	Unlikely – grows in wet lowland rainforest and springfed rainforests in sandstone gullies.
<i>Freycinetia percostata</i>	-	Vulnerable	-	4	Unlikely – grows in wet lowland rainforest and springfed rainforests in sandstone gullies.

<sup>28</sup> NT Territory Parks and Wildlife Conservation Act

<sup>29</sup> The Australian Government's Environment Protection and Biodiversity Conservation Act

<sup>30</sup> As per the NT Flora and Fauna Atlases, as of January 2021.

Scientific Name	Common Name	TPWC Act <sup>28</sup>	EPBC Act <sup>29</sup>	No. records on Melville Island <sup>30</sup>	Likelihood of occurrence
<i>Garcinia warrenii</i>	-	Endangered	-	2	Unlikely – Not much known about it in the NT. In Queensland, it is usually found in well-developed rainforest but also along watercourses in the open.
<i>Hoya australis subsp. oramicola</i>	-	Vulnerable	Vulnerable	26	Unlikely – grows in coastal monsoon rainforest on dunes or red laterite.
<i>Luisia corrugata</i>	Luisia Orchid	Vulnerable	-	20	Unlikely - Within the NT, this species has been collected from the margins of monsoon rainforests; in other parts of its range, it is reputedly more common in coastal and near coastal habitats, including mangroves.
<i>Mapania macrocephala</i>	-	Vulnerable	-	78	Unlikely - occurs in wet, spring-fed rainforests.
<i>Mitrella tiwiensis</i>	-	Vulnerable	Vulnerable	149	Unlikely – grows in monsoon rainforest in deep shade associated with perennial springs, in moist leaf litter and stagnant mulch
<i>Tarennoidea wallichii</i>	-	Endangered	-	18	Unlikely - drier parts of complex evergreen monsoon rainforests
<i>Thrixspermum congestum</i>	-	Vulnerable	-	12	Unlikely - lowland rainforests and on mangroves.
<i>Typhonium jonesii</i>	-	Endangered	Endangered	461	Likely – collections were located on rocky or lateritic hills, two from <i>Eucalyptus miniata</i> and <i>Eucalyptus tetradonta</i> woodlands.
<i>Typhonium mirabile</i>	-	Endangered	Endangered	110	Likely - occurs very sporadically in groups in eucalypt woodland on lateritic and sandy soils, and in patches where the leaf litter is sparse or absent, mainly near the bases of young <i>Cycas</i> plants or in shade. It has been recorded from hillslopes and ridges.
<i>Xylopia monosperma</i>	-	Endangered	Endangered	58	Unlikely - wet rainforests occurring at springs.
<b>Threatened Invertebrates</b>					
<i>Amphidromus cognatus</i>	Cognate Land Snail	Vulnerable	Vulnerable	5	Unlikely – Collected at three sites on Melville Island in 1980, March, April, November, December. Six Specimens from near Palu at south of Island near survey area. Found on trees along creeks in monsoon forest, often on <i>Opilia amentacea</i> .

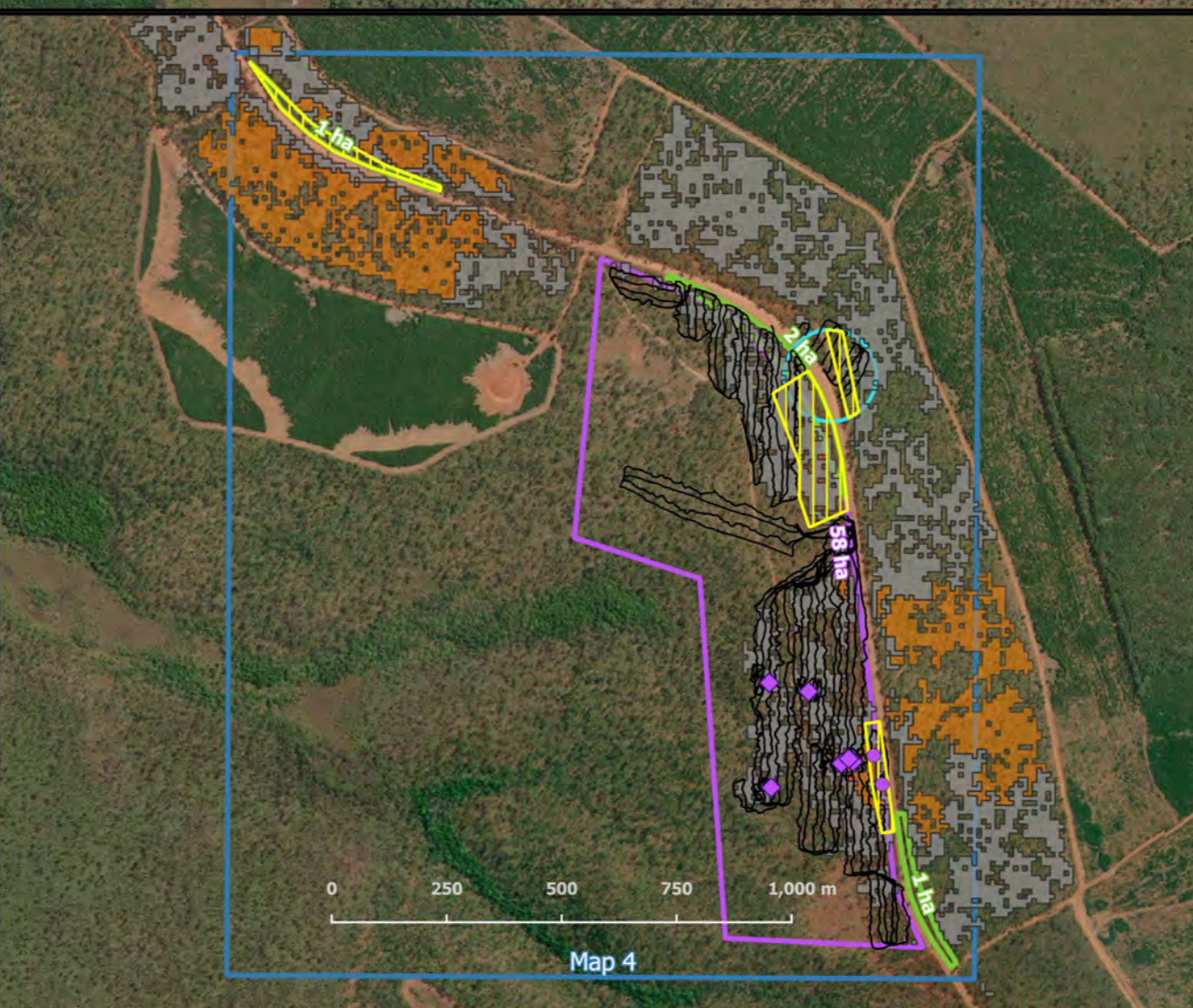
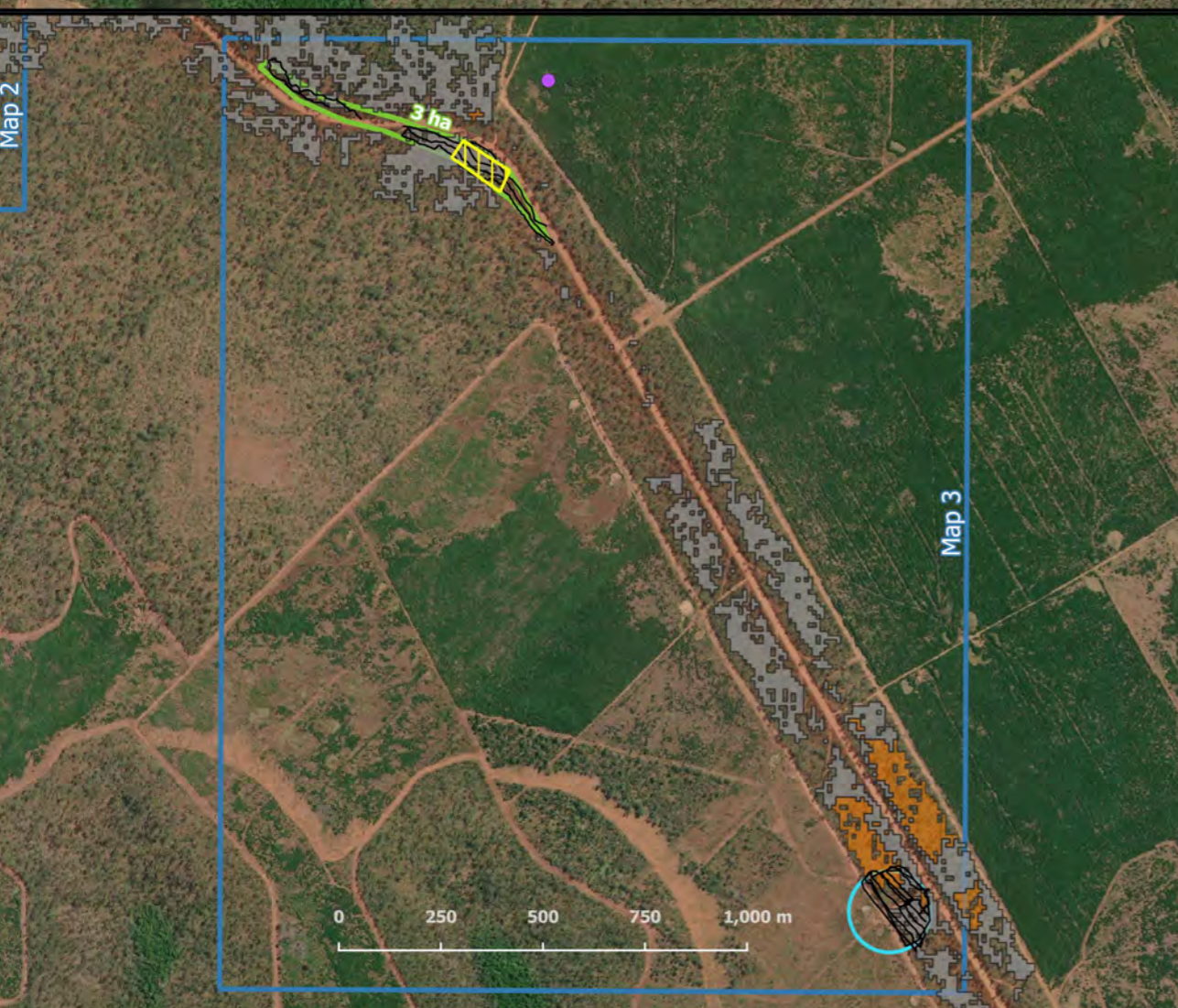
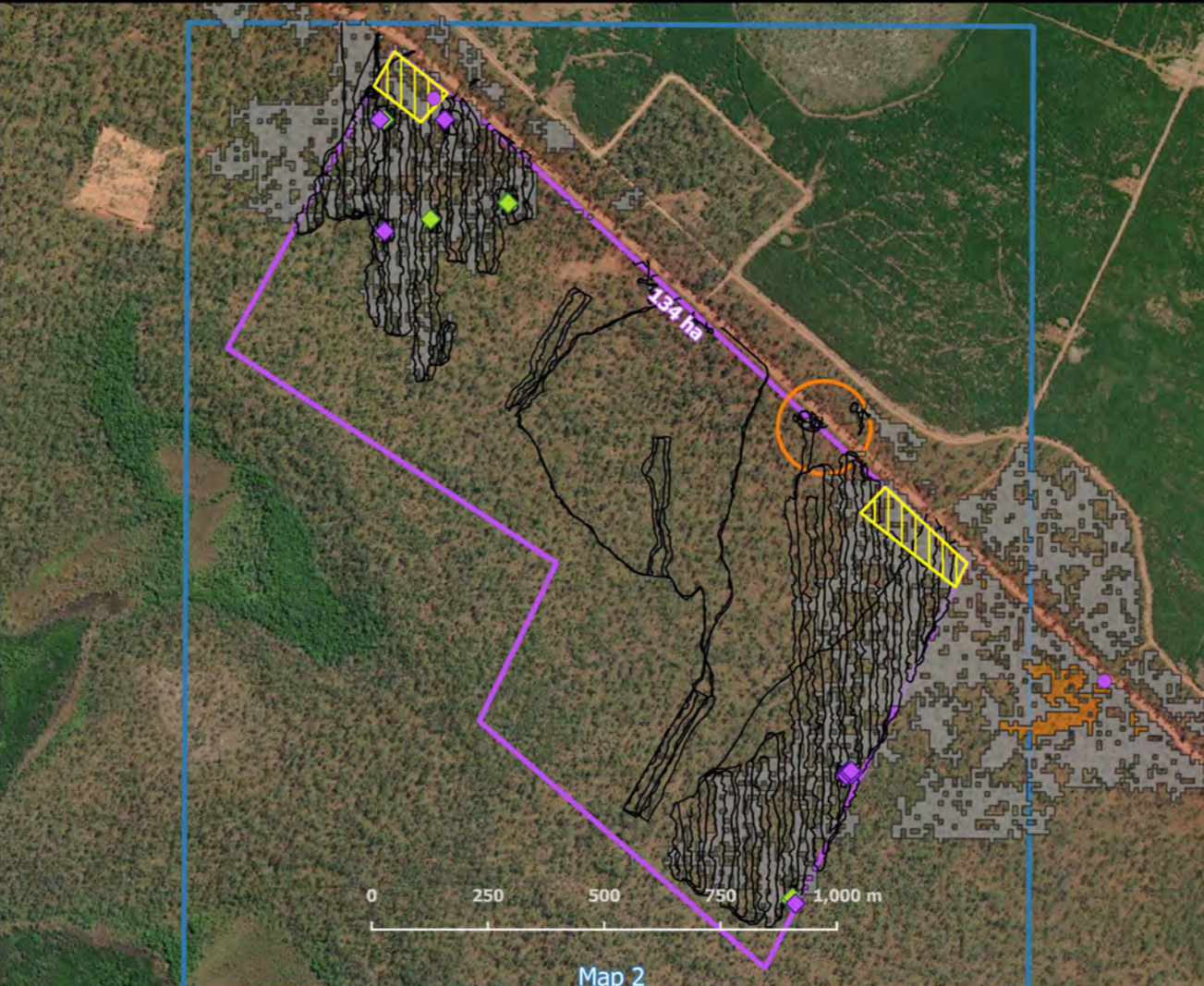
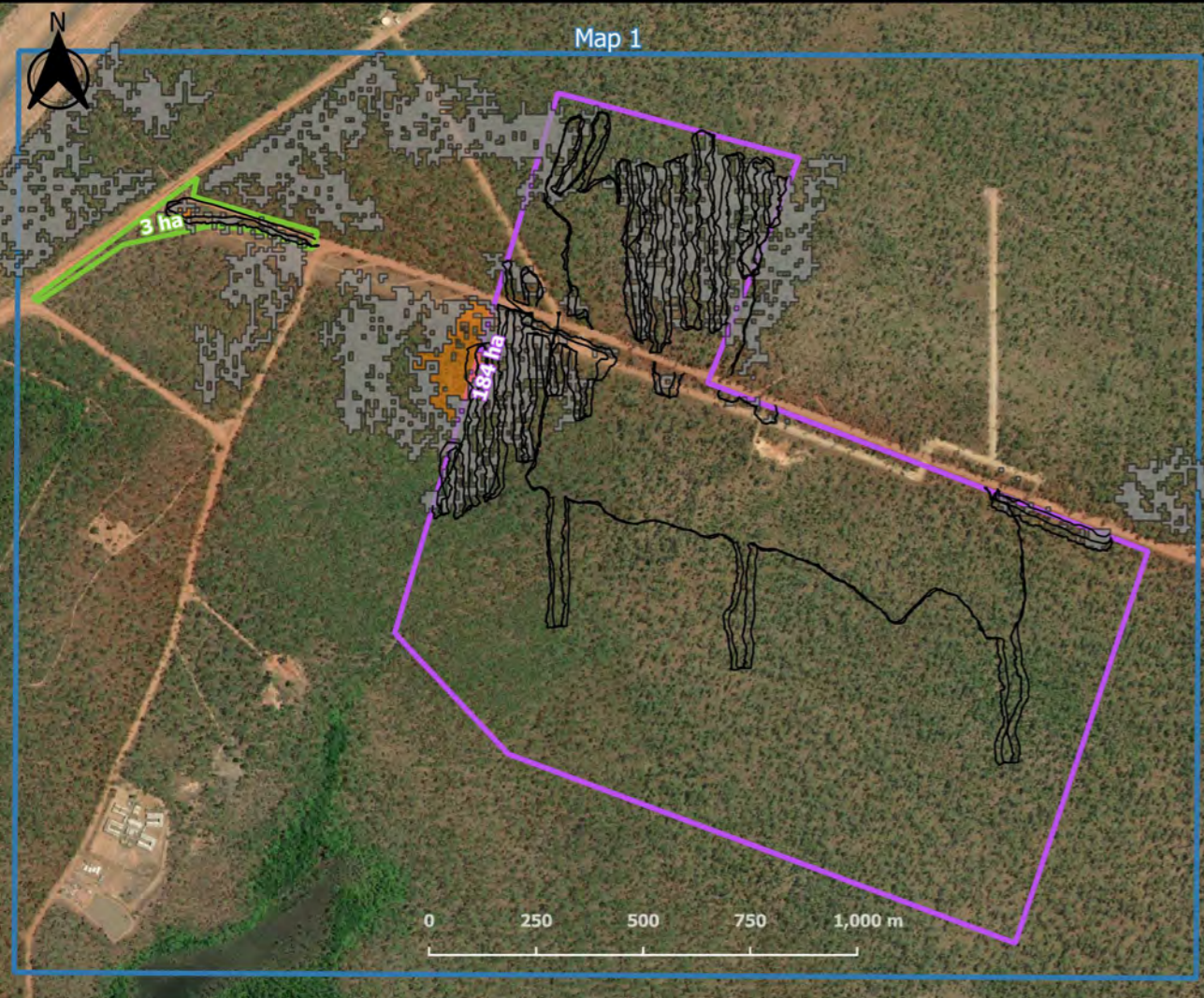
Scientific Name	Common Name	TPWC Act <sup>28</sup>	EPBC Act <sup>29</sup>	No. records on Melville Island <sup>30</sup>	Likelihood of occurrence
<i>Attacus wardi</i>	Atlas Moth	Vulnerable	-	14	Unlikely – they require coastal monsoon forest (which the only rainforest along the survey transect is 4 km inland) and 8 ha patch sizes (of which there is no more than 1 ha in 15 wide linear patch).
<i>Ogyris iphis doddi</i>	Dodd's Azure Butterfly	Endangered	-	1	Unlikely - One specimen on the north Melville Island, Pularumpi, captured at a light trap in June 1986. Found in Eucalyptus/Corymbia canopy around host plant (Mistletoe clumps - <i>Amyema sanguinea</i> ) in savannah woodland. Requires old growth forest that has not been disturbed by recent fire. Multiple species of Lycaenidae that look similar (especially in flight) makes it very hard to survey for, specimens are almost impossible to capture and impossible to tell apart in flight.
<i>Trochomorpha melvillensis</i>	Land Snail	Vulnerable	-	12	Unlikely - Requires coastal monsoon forest. All records from 1980.
<i>Huonia melvillensis</i>	Forestwatcher	Not listed	Not listed	?	Unlikely - Found on natural sandstone crossing along creek edged with <i>Melaleuca</i> sp. Listed by the IUCN as Vulnerable. Small dragonfly with male black and pale green markings and a clubbed abdomen. Female unknown. Larvae, 14-17mm description provided. <a href="https://www.iucnredlist.org/species/163828/87527607">https://www.iucnredlist.org/species/163828/87527607</a>
<i>Nososticta taracumbi</i>	Melville Island Threadtail	Not listed	Not listed	?	Unlikely - Found in permanent streams in closed-canopy forest Listed by the IUCN as Vulnerable. Black with vivid blue markings in male, ochreous in females. Larvae unknown. <a href="https://www.iucnredlist.org/species/87536571/87540109">https://www.iucnredlist.org/species/87536571/87540109</a>
<b>Threatened Birds</b>					
<i>Erythrotriorchis radiatus</i>	Red Goshawk	Vulnerable	Vulnerable	27	Possible – numerous records, potentially suitable habitat.
<i>Falco hypoleucos</i>	Grey Falcon	Vulnerable	-	1	Unlikely – only one record exists on Melville in NT Fauna Atlas.
<i>Geophaps smithii</i>	Partridge Pigeon	Vulnerable	Vulnerable	180	Likely – suitable habitat and numerous records.

Scientific Name	Common Name	TPWC Act <sup>28</sup>	EPBC Act <sup>29</sup>	No. records on Melville Island <sup>30</sup>	Likelihood of occurrence
<i>Melanodryas cucullata melvillensis</i>	Hooded Robin (Tiwi)	Critically Endangered	Critically Endangered	18	Unlikely – has not been recorded since 1992 (according to the NT Fauna Atlas)
<i>Mirafra javanica melvillensis</i>	Horsfield's Bushlark (Tiwi)	Vulnerable	Vulnerable	13	Unlikely – does not appear to be any suitable habitat (treeless plains with Acacia) on aerial imagery. Paucity of records.
<i>Tyto novaehollandiae kimberli</i>	Masked Owl (northern)	Vulnerable	Vulnerable	340	Possible – suitable habitat appears to exist and high number of records.
<b>Threatened Mammals</b>					
<i>Antechinus bellus</i>	Fawn Antechinus	Endangered	Vulnerable	3	Unlikely – paucity of records (most recent from 25 years ago (1996)).
<i>Conilurus penicillatus</i>	Brush-tailed Rabbit-rat	Endangered	Vulnerable	332	Possible – suitable habitat and nearby recent records.
<i>Mesembriomys gouldii melvillensis</i>	Black-footed Tree-rat (Melville Island)	Vulnerable	Vulnerable	163	Possible – suitable habitat and numerous records.
<i>Phascogale pirata</i>	Northern Brush-tailed Phascogale	Endangered	Vulnerable	6	Possible – suitable habitat, although there is a paucity of records on Melville (most recent from 2007)
<i>Rattus tunneyi</i>	Pale Field-rat	Vulnerable	-	153	Possible, although most habitats do not appear suitable (study areas appear to be confined to <i>E. tetradonta</i> / <i>miniata</i> woodlands, not near creeks).
<i>Saccolaimus saccolaimus</i>	Bare-rumped Sheath-tailed Bat	-	Critically Endangered	0	Unlikely – no records.
<i>Sminthopsis butleri</i>	Butler's Dunnart	Vulnerable	Vulnerable	108	Possible – suitable habitat and nearby records
<i>Trichosurus vulpecula arnhemensis</i>	Northern Brushtail Possum	-	Vulnerable	6,353	Likely – suitable habitat and high number of records
<i>Xeromys myoides</i>	Water Mouse/False Water Rat	-	Vulnerable	8	Unlikely – no suitable habitat.
<b>Threatened Reptiles</b>					
<i>Acanthophis hawkei</i>	Plains Death Adder	Vulnerable	Vulnerable	0	Unlikely - wrong habitat and location. Prefers black soil plains.

Scientific Name	Common Name	TPWC Act <sup>28</sup>	EPBC Act <sup>29</sup>	No. records on Melville Island <sup>30</sup>	Likelihood of occurrence
<i>Varanus mertensi</i>	Mertens' Water Monitor	Vulnerable	-	16	Possible – no obvious creek lines in survey area (although it is noted that this species can move away from creek lines in search of temporary waters during the wet season)
<i>Varanus panoptes</i>	Yellow-spotted Monitor	Vulnerable	-	7	Possible – wide ranging species, several records.



## 18 Appendix E: Typhonium survey transects and results

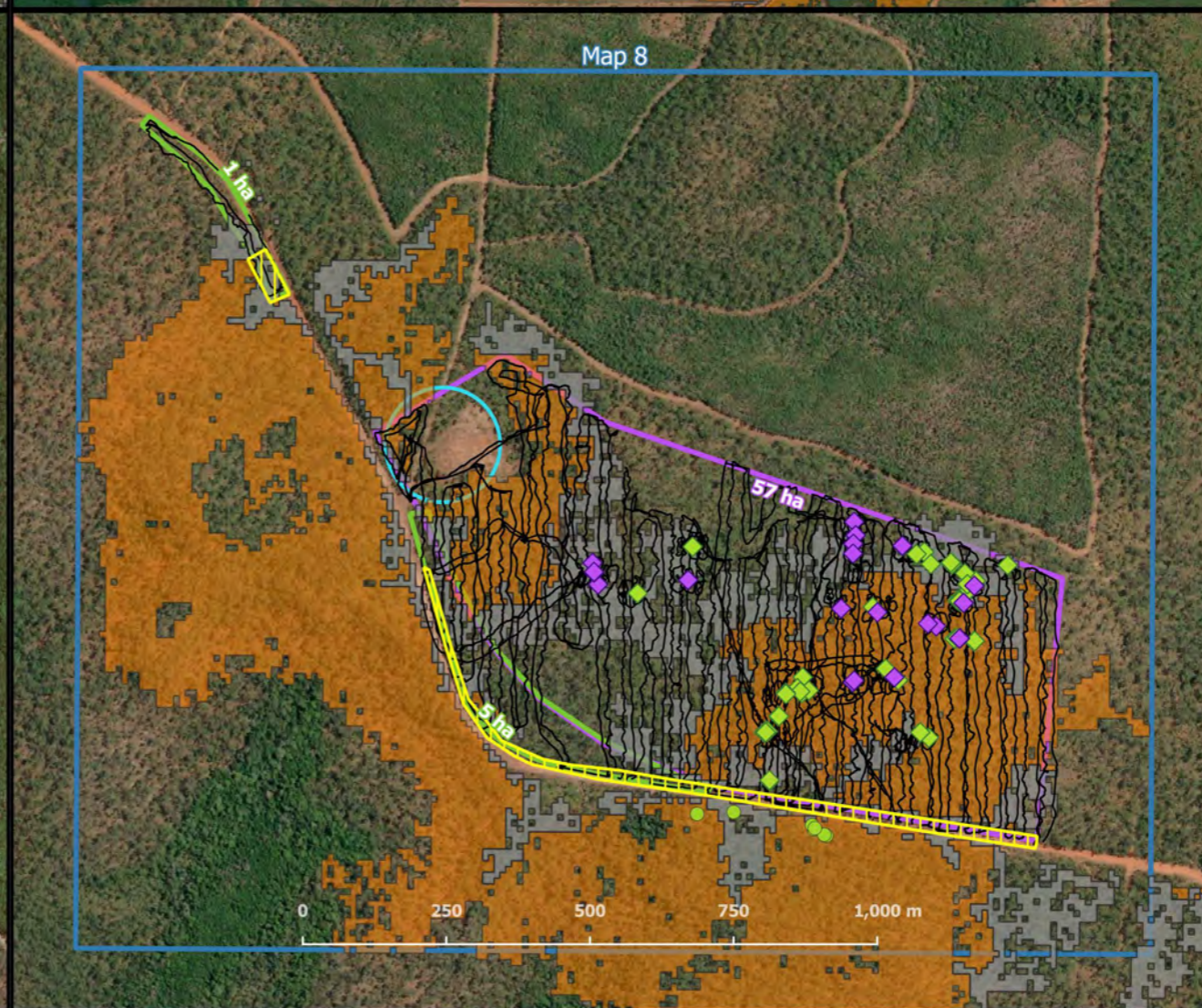
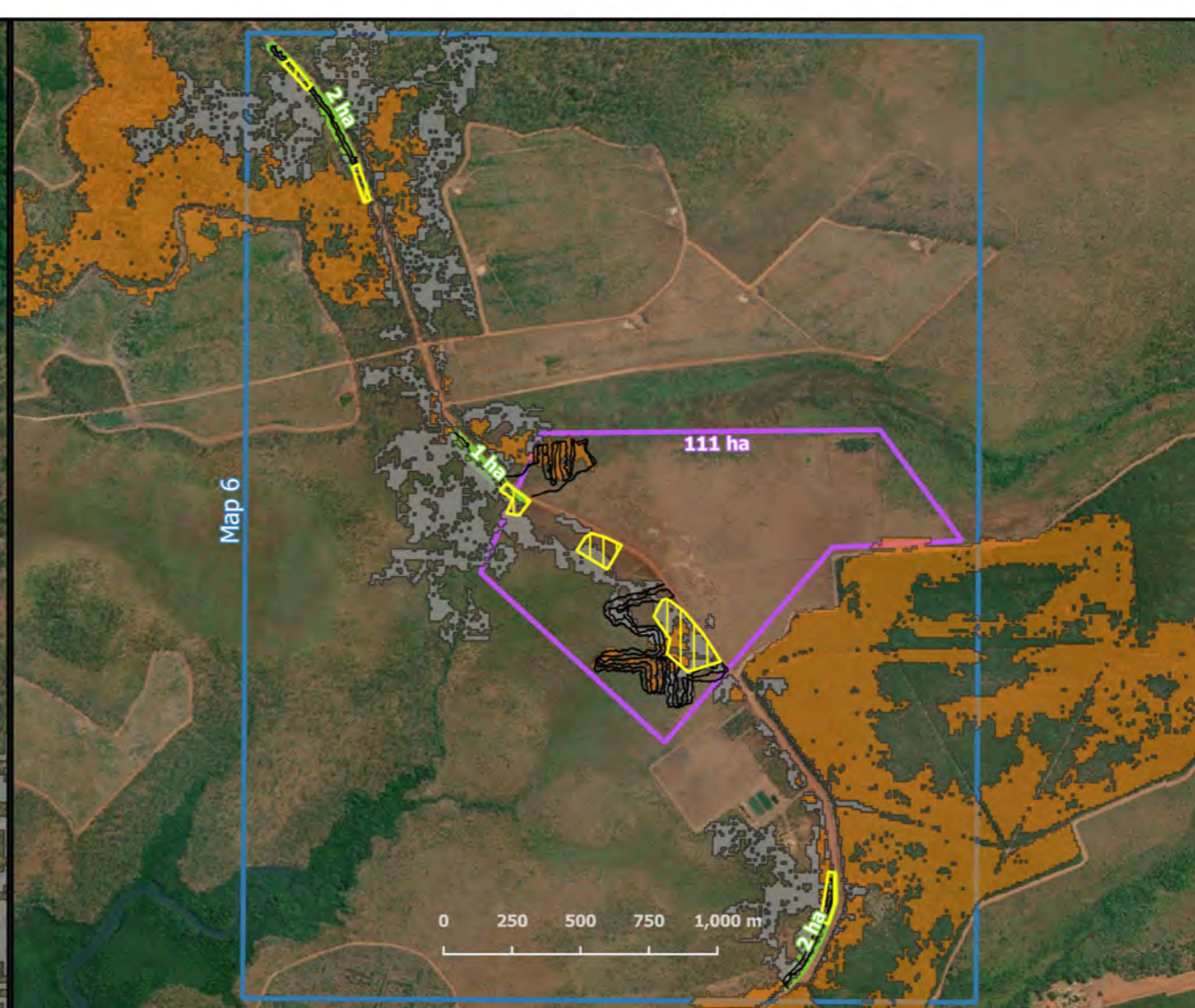
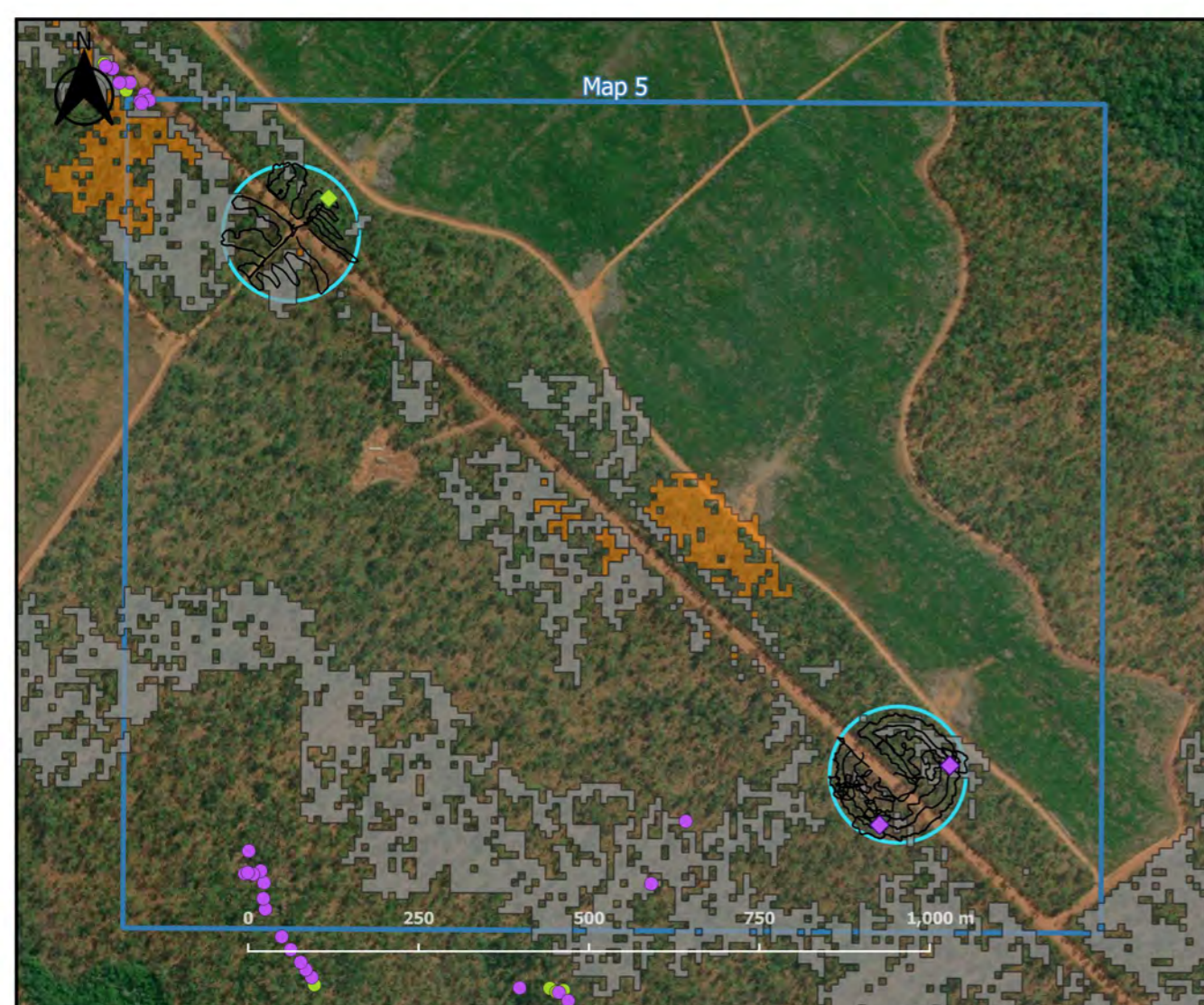


**Typhonium survey transects and results (Maps 1-4)**

- Key
- Typhonium survey tracks
  - ◆ Typhonium jonesii (this survey)
  - Typhonium jonesii existing records (NT Flora Atlas)
  - ◆ Typhonium mirabile (this survey)
  - Typhonium mirabile existing records (NT Flora Atlas)
  - Typhonium modelled habitat (NT Govt)
  - Typhonium moderate likelihood habitat (NT Govt)
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Background - ESRI Satellite

Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84





### Typhonium survey transects and results (Maps 5-8)

- Key
- Typhonium survey tracks
  - ▨ Typhonium survey exclusion areas - previously surveyed areas
  - ◆ Typhonium jonesii (this survey)
  - Typhonium jonesii existing records (NT Flora Atlas)
  - ◆ Typhonium mirabile (this survey)
  - Typhonium mirabile existing records (NT Flora Atlas)
  - Typhonium modelled habitat (NT Govt)
  - Typhonium moderate likelihood habitat (NT Govt)
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Background - ESRI Satellite

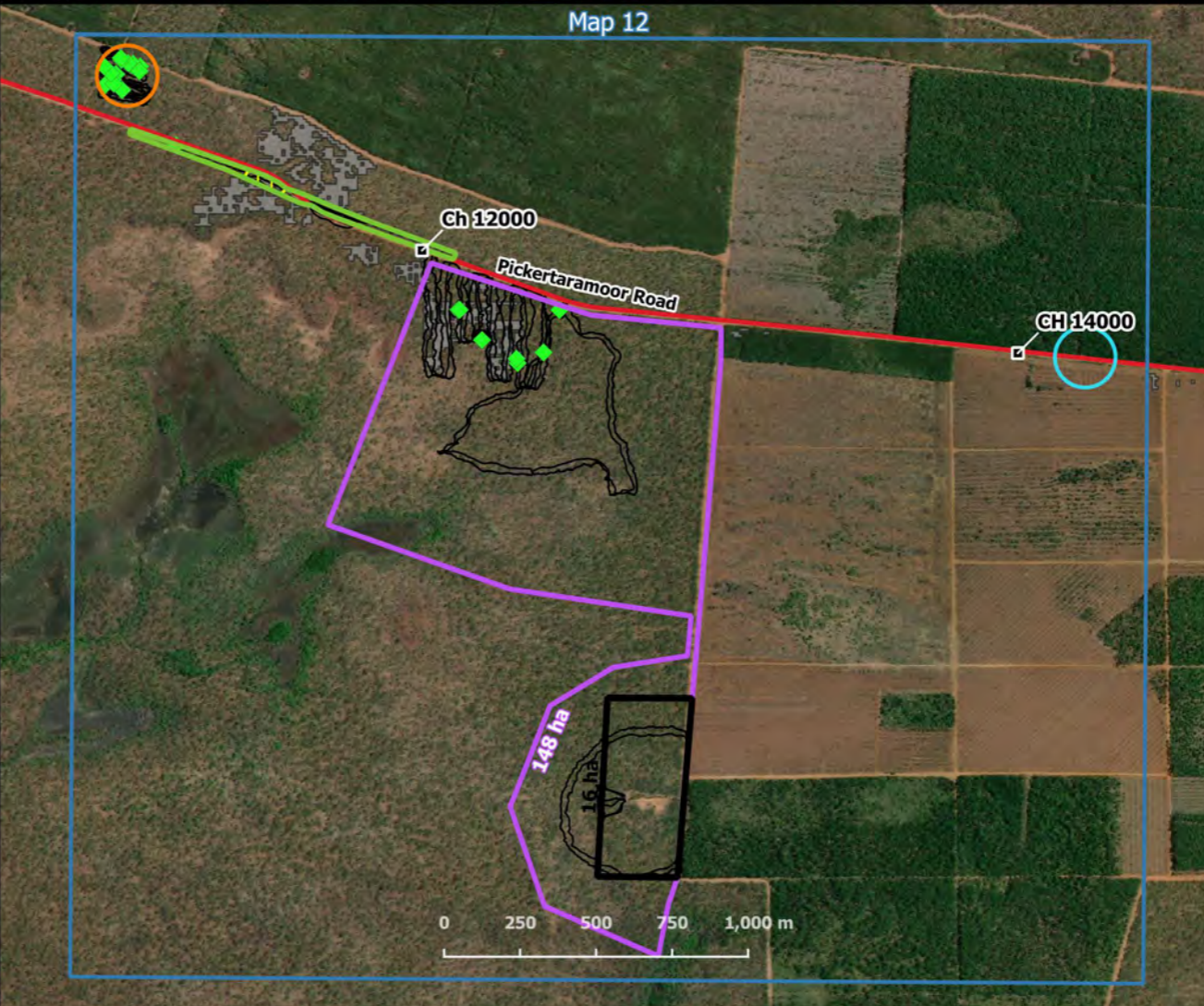
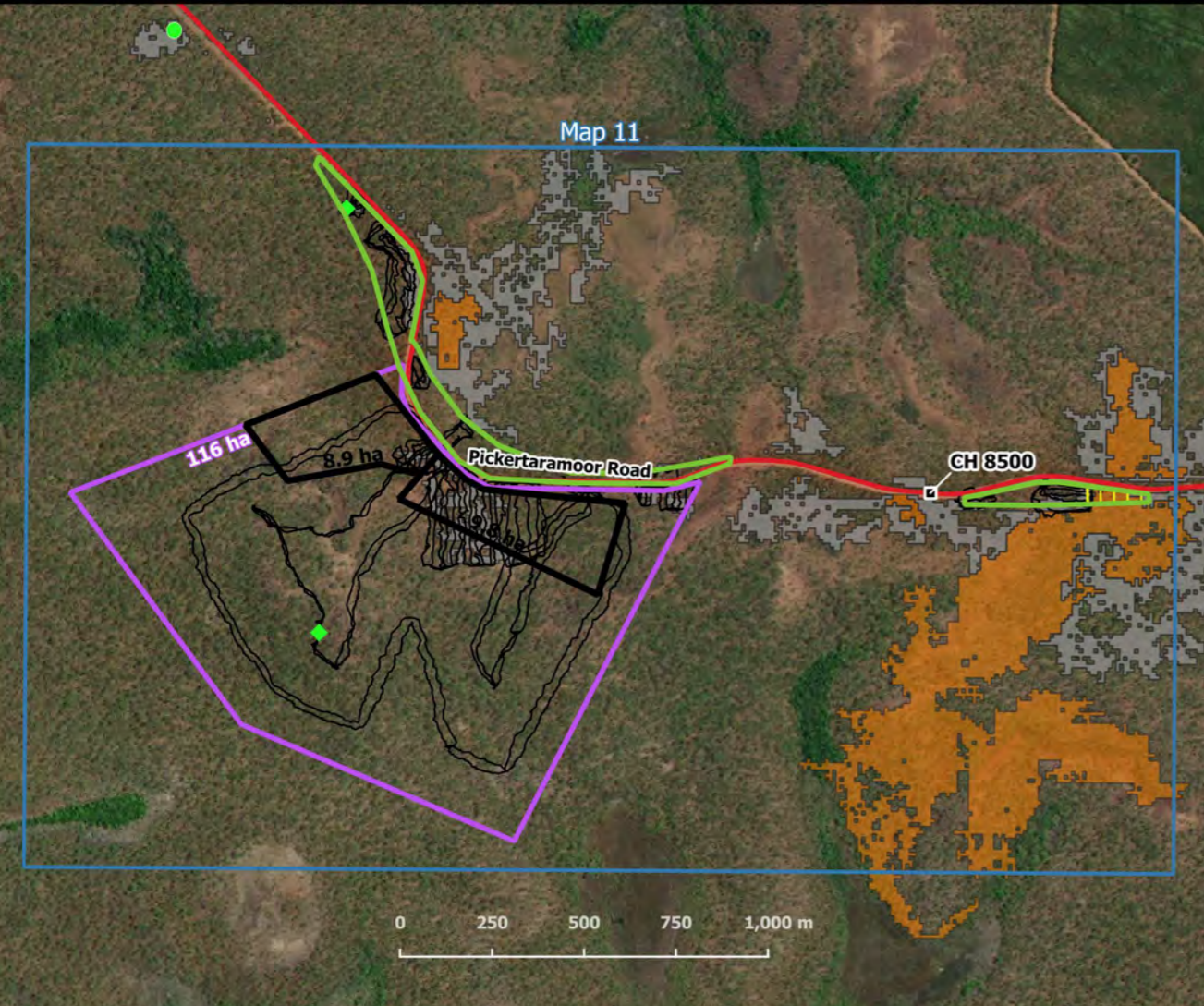
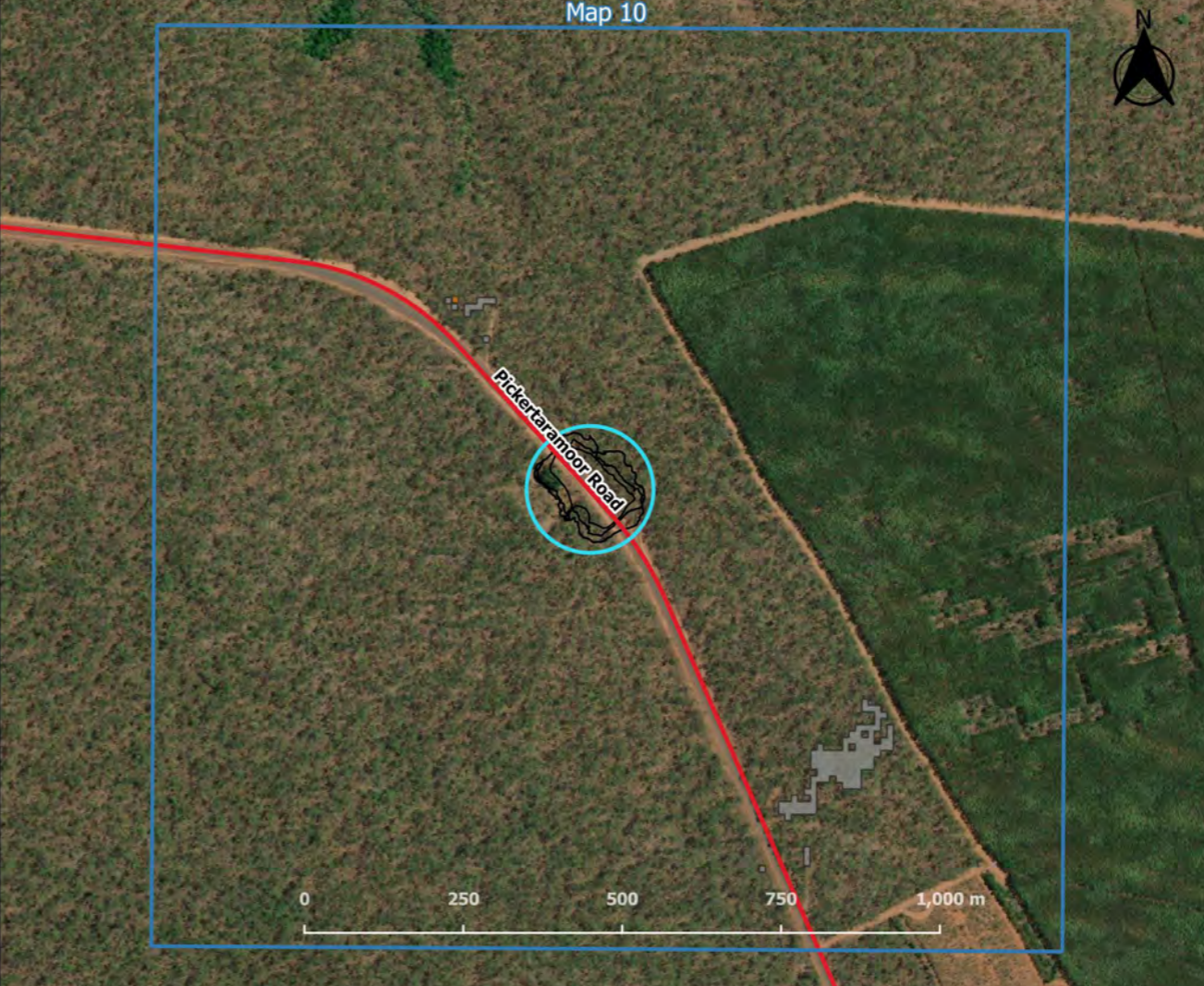
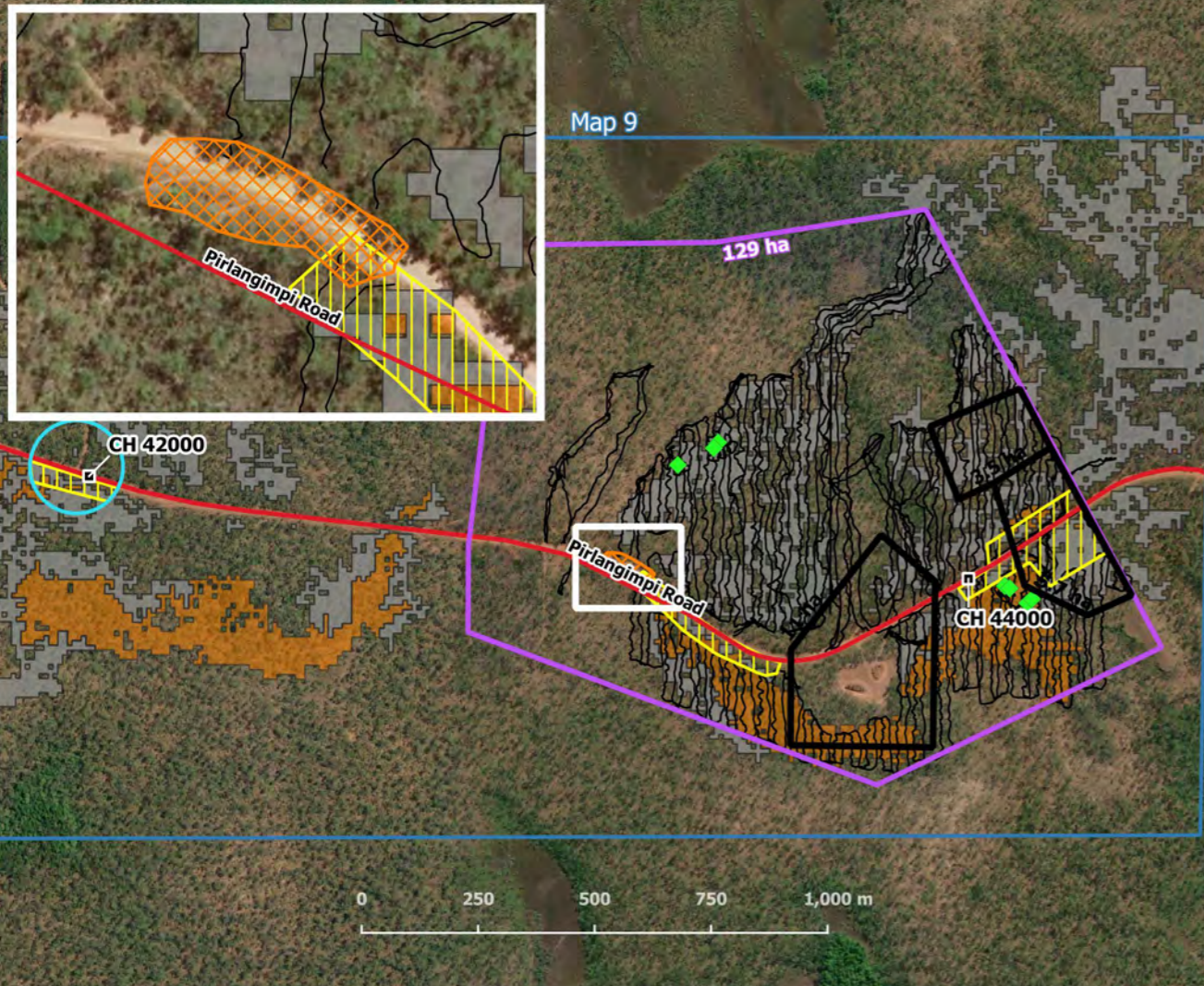
Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84



**Typhonium survey transects and results (Maps 9-12)**

**Key**

- Typhonium survey tracks
  - ▨ Typhonium survey exclusion areas - previously surveyed areas
  - Road upgrade (source: GHD)
  - ▨ Munupi yellow ochre site
  - ▨ Typhonium modelled habitat (NT Govt)
  - ▨ Typhonium moderate likelihood habitat (NT Govt)
  - ▭ Map area
  - Road realignment
  - ▨ Gravel extraction area
  - ▨ Existing bores 100 m buffer
  - ▨ Water points 100 m buffer
  - ▨ Proposed gravel pit area
- Background - ESRI Satellite

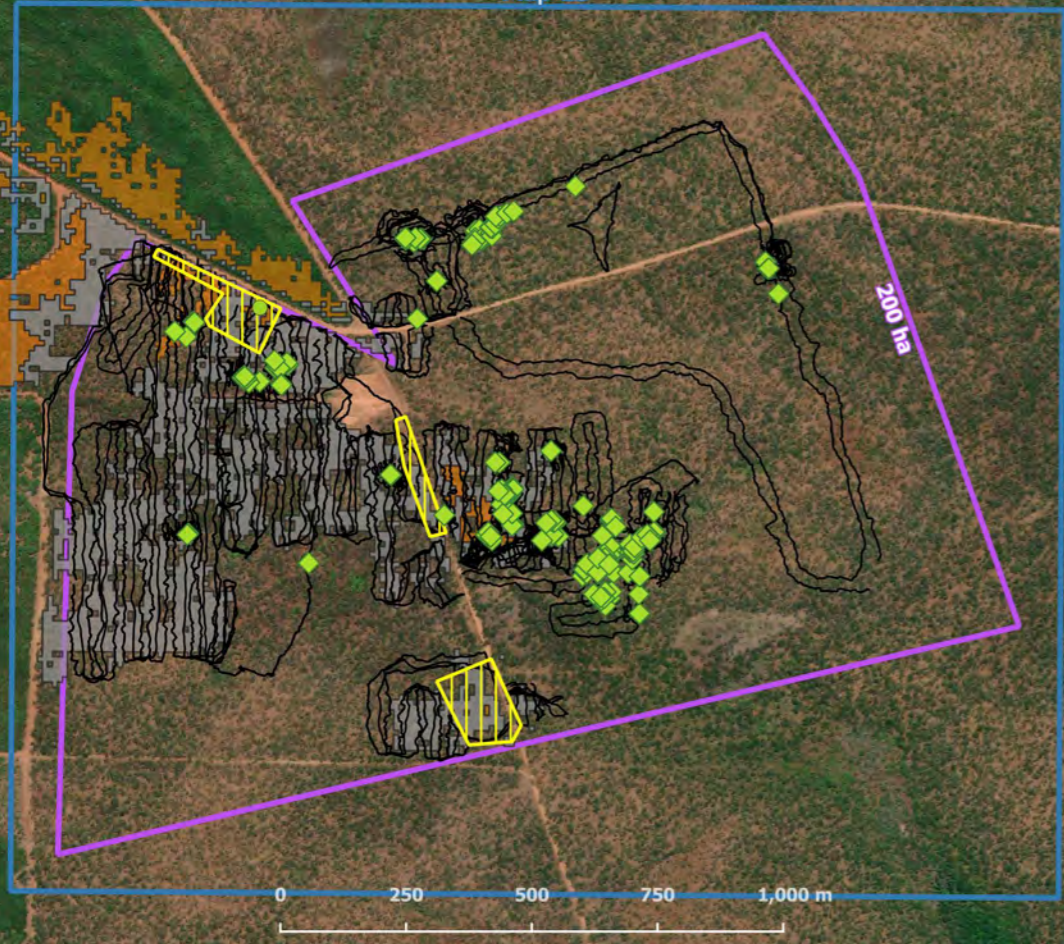


Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 15 February 2022  
 Datum: WGS84

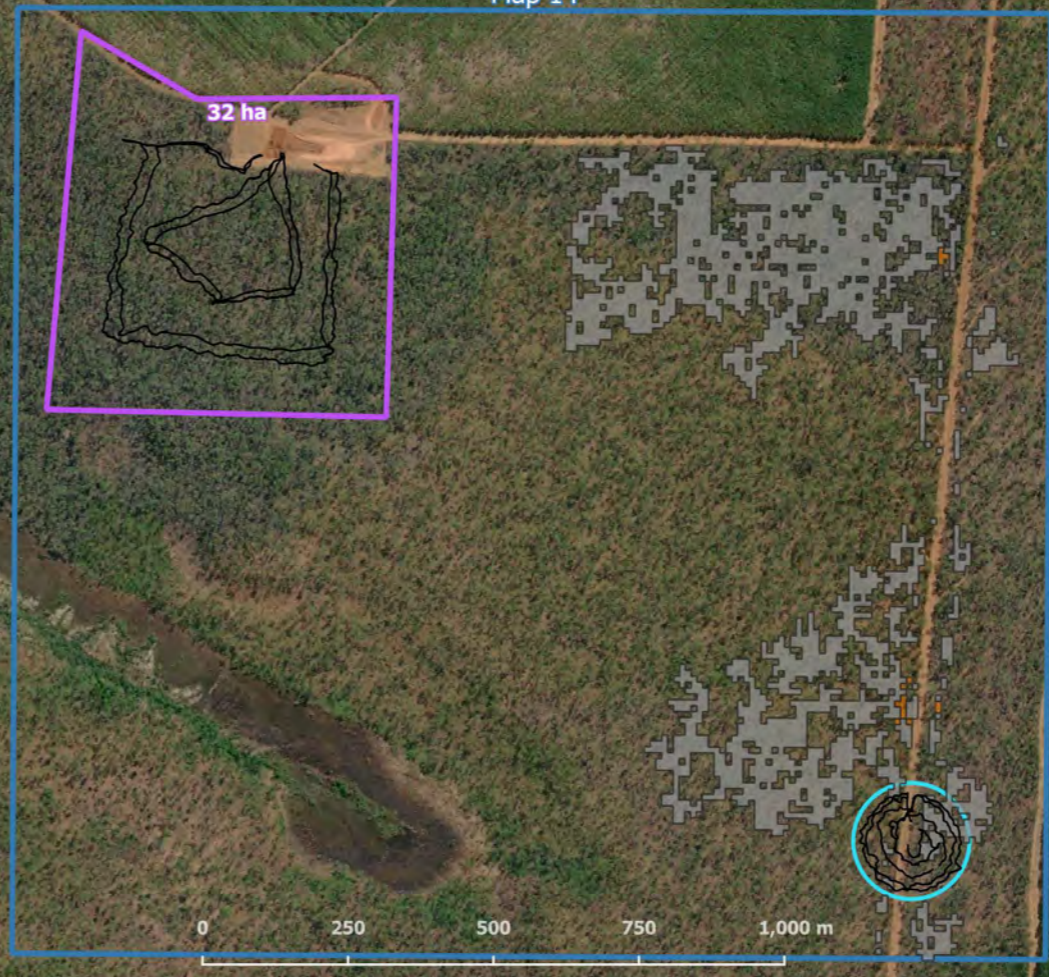




Map 13



Map 14



### Typhonium survey transects and results (Maps 13-16)

#### Key

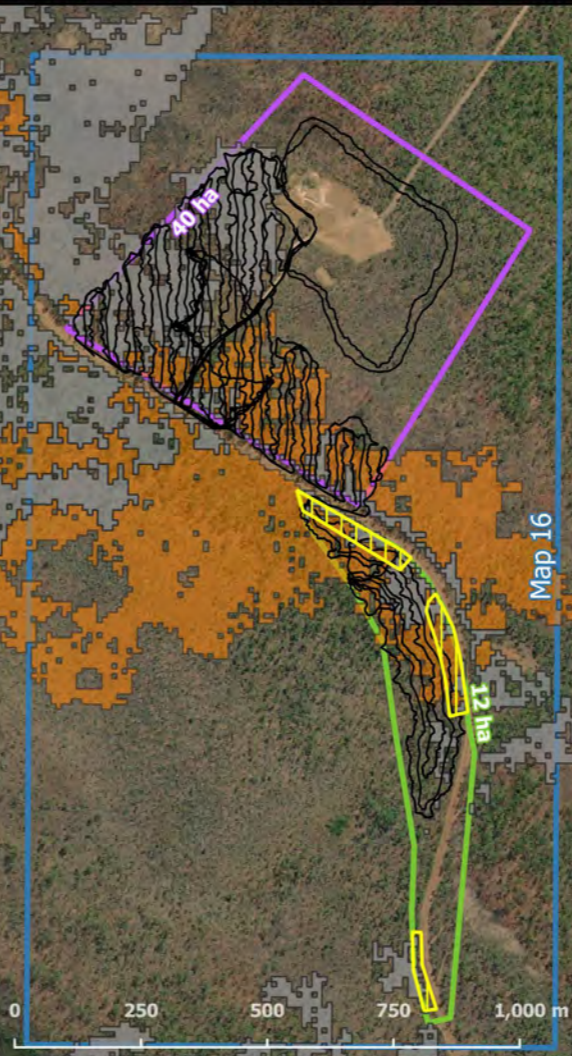
- Typhonium survey tracks
- ▨ Typhonium survey exclusion areas - previously surveyed areas
- ◆ Typhonium jonesii (this survey)
- Typhonium jonesii existing records (NT Flora Atlas)
- ◆ Typhonium mirabile (this survey)
- Typhonium mirabile existing records (NT Flora Atlas)
- Typhonium modelled habitat (NT Govt)
- Typhonium moderate likelihood habitat (NT Govt)
- Map areas
- Existing bores 100 m buffer
- Water points 100 m buffer
- Gravel extraction area
- Road realignment

Background - ESRI Satellite

Map 15

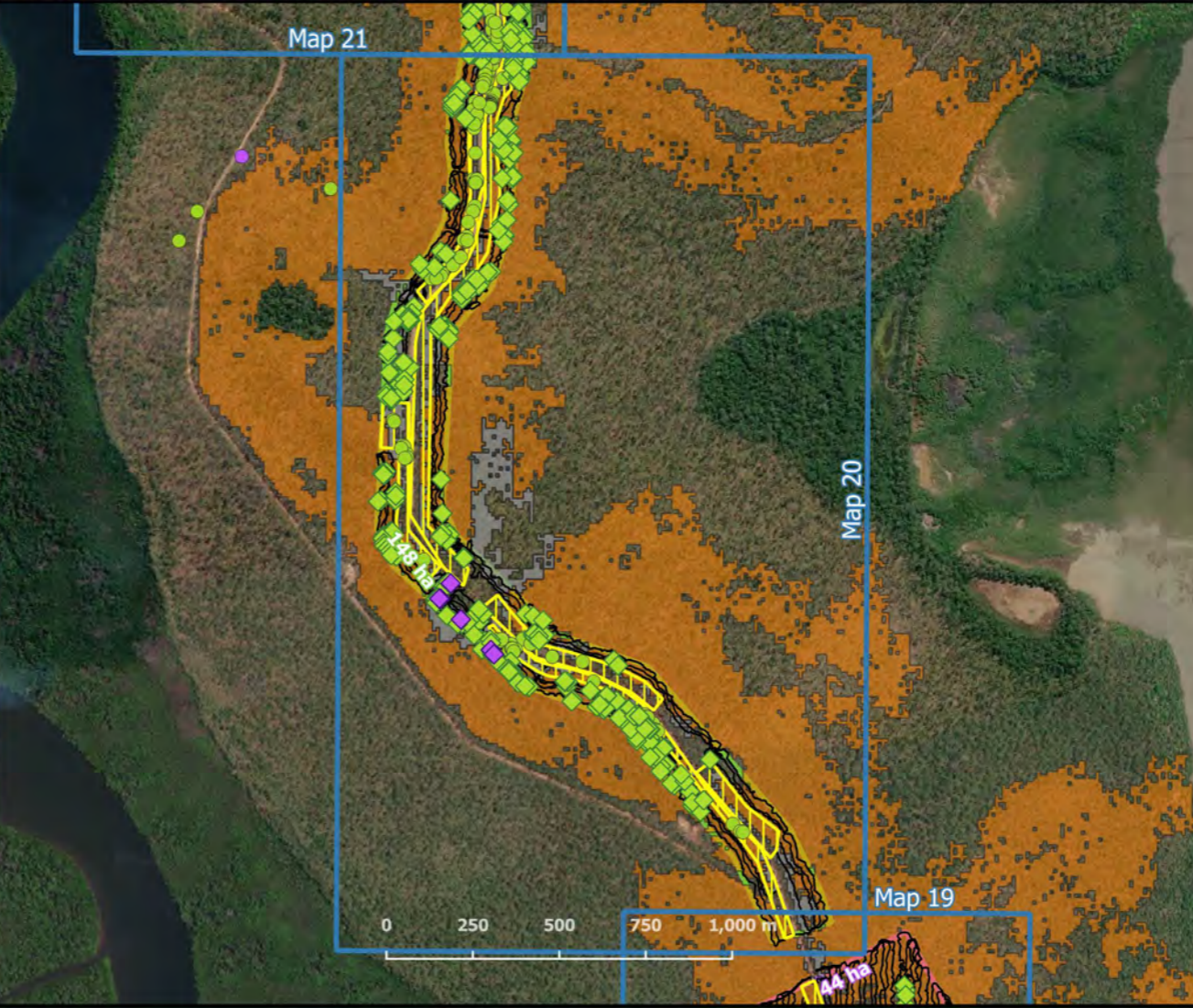
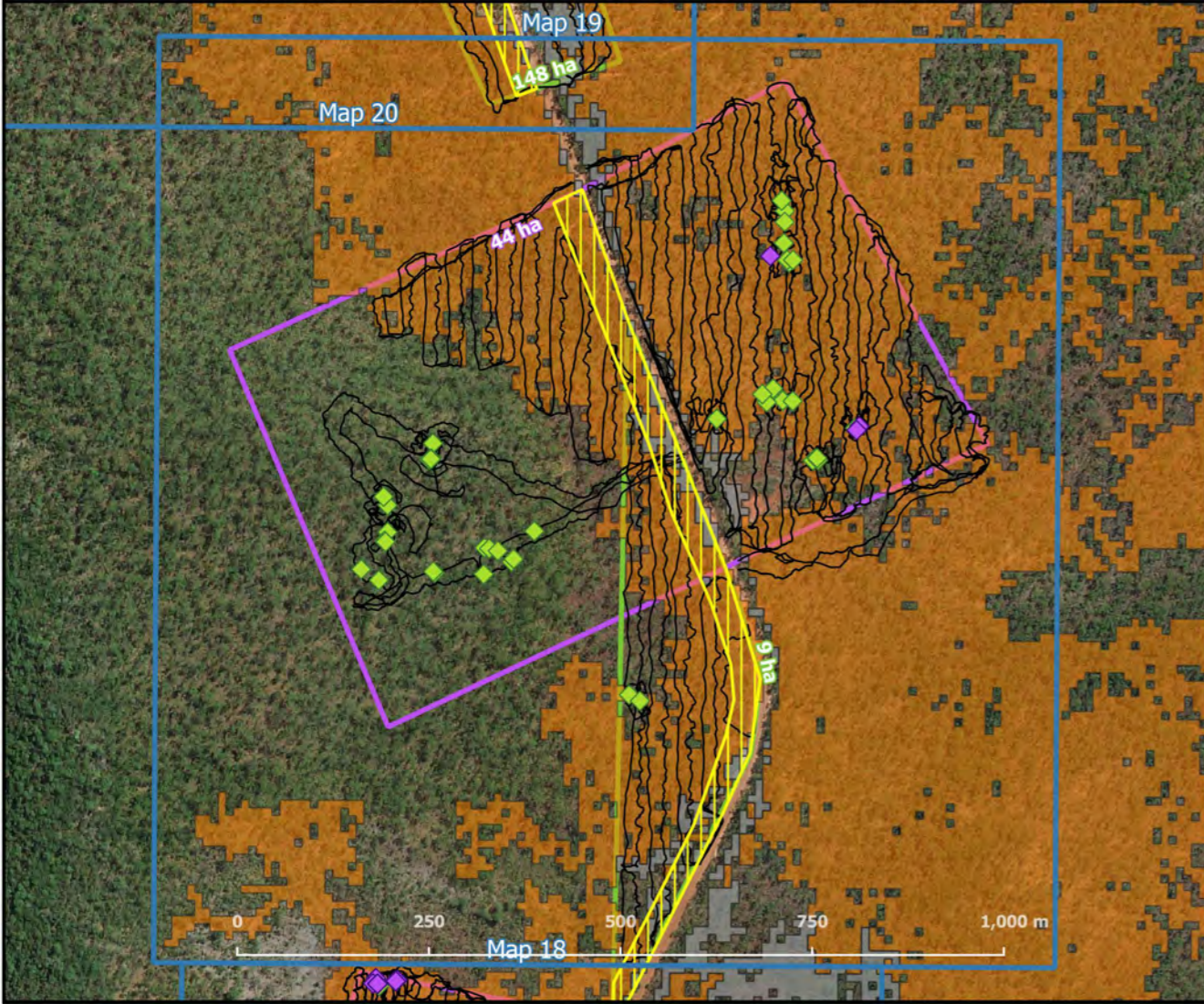
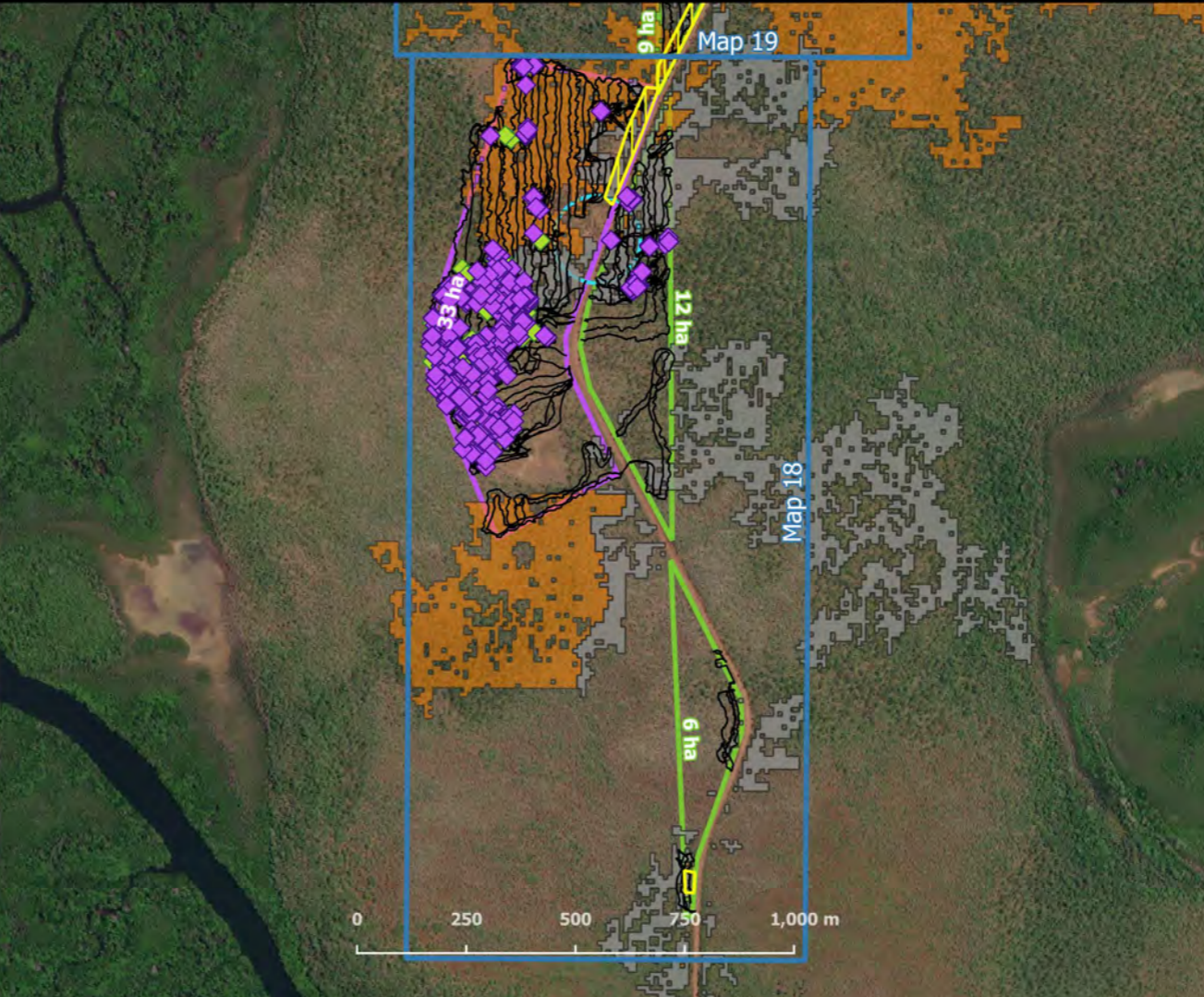


Map 16



Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84





### Typhonium survey transects and results (Maps 17-20)

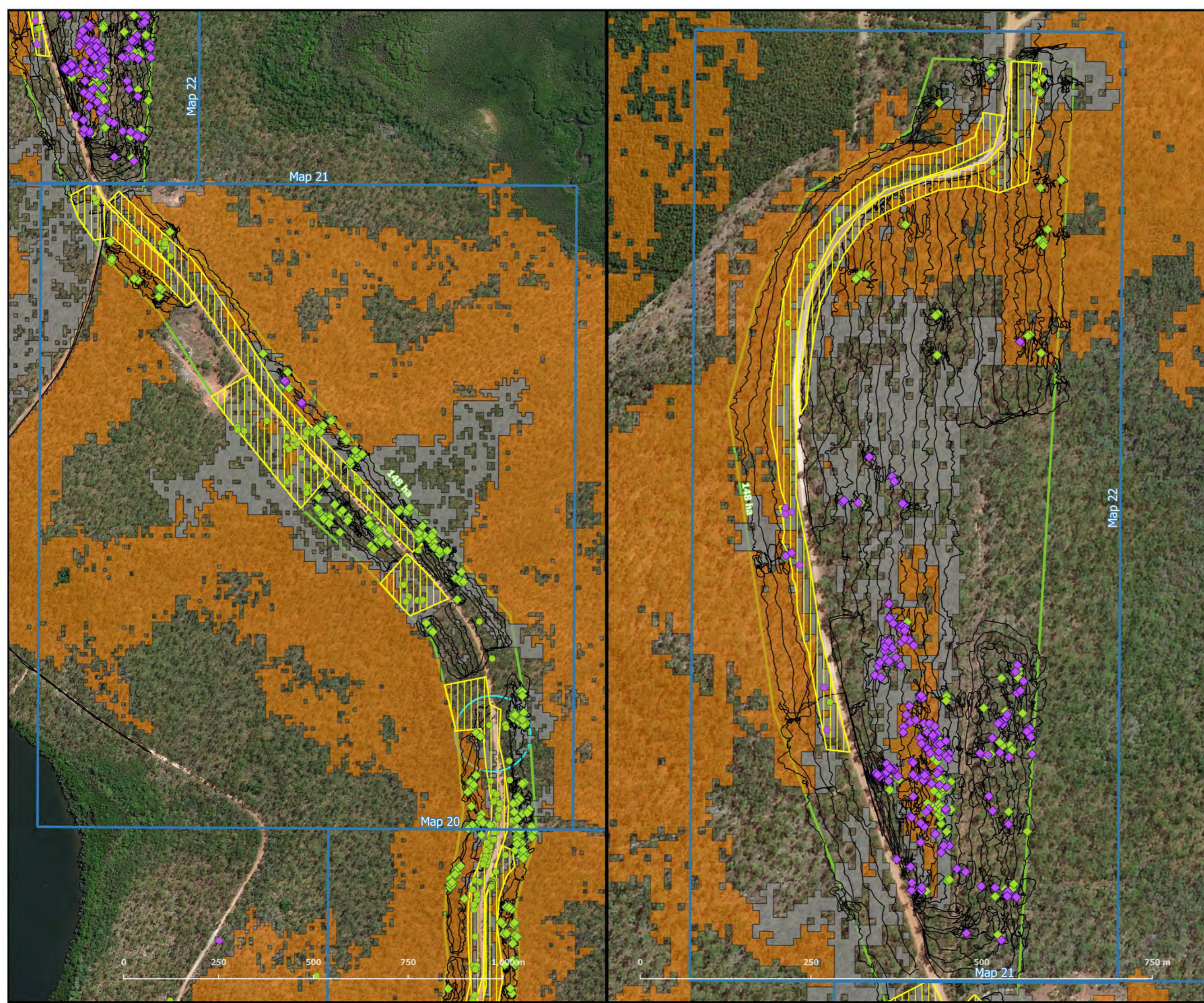
- Key
- Typhonium survey tracks
  - ▭ Typhonium survey exclusion areas - previously surveyed areas
  - ◆ Typhonium jonesii (this survey)
  - Typhonium jonesii existing records (NT Flora Atlas)
  - ◆ Typhonium mirabile (this survey)
  - Typhonium mirabile existing records (NT Flora Atlas)
  - Typhonium modelled habitat (NT Govt)
  - Typhonium moderate likelihood habitat (NT Govt)
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Background - ESRI Satellite

Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84



# Typhonium survey transects and results (Maps 21-22)

- Key
- Typhonium survey tracks
  - ▨ Typhonium survey exclusion areas - previously surveyed areas
  - ◆ Typhonium jonesii (this survey)
  - Typhonium jonesii existing records (NT Flora Atlas)
  - ◆ Typhonium mirabile (this survey)
  - Typhonium mirabile existing records (NT Flora Atlas)
  - Typhonium modelled habitat (NT Govt)
  - Typhonium moderate likelihood habitat (NT Govt)
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Background - ESRI Satellite



Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84





## 19 Appendix F: Typhonium jonesii record coordinates

Number	Easting	Northing	Latitude	Longitude
1	694338.002605	8707124.103273	130.7829470000	-11.68989400000
2	694311.203375	8707127.812431	130.7827010000	-11.68986200000
3	694314.614023	8707132.658620	130.7827320000	-11.68981800000
4	694258.037305	8707100.047775	130.7822150000	-11.69011600000
5	694258.897693	8707098.161649	130.7822230000	-11.69013300000
6	694248.535139	8707080.194376	130.7821290000	-11.69029600000
7	682044.118927	8735483.105211	130.6686730000	-11.43421300000
8	682054.679272	8735422.092111	130.6687730000	-11.43476400000
9	682047.170704	8735406.869796	130.6687050000	-11.43490200000
10	682045.010035	8735240.619071	130.6686940000	-11.43640500000
11	681893.983465	8735298.128961	130.6673070000	-11.43589300000
12	681890.366444	8735295.384316	130.6672740000	-11.43591800000
13	681892.871024	8735237.736414	130.6673000000	-11.43643900000
14	681894.939478	8734669.797070	130.6673490000	-11.44157300000
15	681897.453729	8734670.556898	130.6673720000	-11.44156600000
16	681893.774917	8734675.998563	130.6673380000	-11.44151700000
17	681890.630212	8734679.445968	130.6673090000	-11.44148600000
18	681885.841028	8734681.575417	130.6672650000	-11.44146700000
19	681895.653502	8734661.164520	130.6673560000	-11.44165100000
20	681892.187720	8734646.803820	130.6673250000	-11.44178100000
21	681888.145141	8734645.942196	130.6672880000	-11.44178900000
22	681892.377857	8734641.935404	130.6673270000	-11.44182500000
23	681900.396052	8734650.960014	130.6674000000	-11.44174300000
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25	681893.355366	8734622.239246	130.6673370000	-11.44200300000
26	681897.557416	8734612.922828	130.6673760000	-11.44208700000
27	681894.196923	8734597.897795	130.6673460000	-11.44222300000
28	681896.568832	8734592.906159	130.6673680000	-11.44226800000
29	681900.643983	8734599.409257	130.6674050000	-11.44220900000
30	681899.945934	8734610.807238	130.6673980000	-11.44210600000
31	681899.298876	8734612.138425	130.6673920000	-11.44209400000
32	681884.255983	8734577.158477	130.6672560000	-11.44241100000
33	681892.528065	8734573.460221	130.6673320000	-11.44244400000
34	681894.966406	8734579.972771	130.6673540000	-11.44238500000
35	681898.397461	8734550.527806	130.6673870000	-11.44265100000
36	681780.750928	8735021.455996	130.6662840000	-11.43840000000
37	681778.091547	8735354.992945	130.6662420000	-11.43538500000
38	681780.827282	8735356.304616	130.6662670000	-11.43537300000
39	682081.949510	8734192.825215	130.6690880000	-11.44587500000
40	682392.697647	8733791.352496	130.6719570000	-11.44948800000
41	682381.349368	8733791.418249	130.6718530000	-11.44948800000
42	682381.880217	8733788.870886	130.6718580000	-11.44951100000
43	682395.794130	8733779.608708	130.6719860000	-11.44959400000
44	682430.479185	8733739.252212	130.6723060000	-11.44995700000
45	682482.195597	8733681.540016	130.6727830000	-11.45047600000
46	682485.469129	8733681.521037	130.6728130000	-11.45047600000
47	682479.266187	8733665.627541	130.6727570000	-11.45062000000

Number	Easting	Northing	Latitude	Longitude
48	682469.380086	8733673.207099	130.6726660000	-11.45055200000
49	682570.656880	8733600.052246	130.6735980000	-11.45120800000
50	682575.976044	8733595.264675	130.6736470000	-11.45125100000
51	682574.740428	8733607.993291	130.6736350000	-11.45113600000
52	682689.877717	8733460.088156	130.6746980000	-11.45246700000
53	682683.310145	8733456.586398	130.6746380000	-11.45249900000
54	682752.224964	8733391.693995	130.6752730000	-11.45308200000
55	682753.098541	8733391.799543	130.6752810000	-11.45308100000
56	682735.046809	8733402.524028	130.6751150000	-11.45298500000
57	682736.242598	8733401.742734	130.6751260000	-11.45299200000
58	682739.509681	8733400.617548	130.6751560000	-11.45300200000
59	682738.163664	8733394.319945	130.6751440000	-11.45305900000
60	682775.216389	8733367.223752	130.6754850000	-11.45330200000
61	682778.211374	8733375.613583	130.6755120000	-11.45322600000
62	682764.940240	8733382.770435	130.6753900000	-11.45316200000
63	682778.997567	8733360.675126	130.6755200000	-11.45336100000
64	682798.671234	8733347.396894	130.6757010000	-11.45348000000
65	682792.103025	8733343.784543	130.6756410000	-11.45351300000
66	682792.588328	8733352.188952	130.6756450000	-11.45343700000
67	682835.046356	8733278.821507	130.6760380000	-11.45409800000
68	682828.411142	8732475.195046	130.6760200000	-11.46136300000
69	682831.485846	8732497.301469	130.6760470000	-11.46116300000
70	682822.776239	8732463.170065	130.6759690000	-11.46147200000
71	682818.628633	8732462.972936	130.6759310000	-11.46147400000
72	682820.811550	8732463.070866	130.6759510000	-11.46147300000
73	682839.899186	8732499.243738	130.6761240000	-11.46114500000
74	682875.421180	8732621.937685	130.6764430000	-11.46003400000
75	682873.577173	8732623.828974	130.6764260000	-11.46001700000
76	682885.892289	8732621.213064	130.6765390000	-11.46004000000
77	682880.557270	8732623.235276	130.6764900000	-11.46002200000
78	682880.336468	8732622.794074	130.6764880000	-11.46002600000
79	682865.261977	8732620.005573	130.6763500000	-11.46005200000
80	682869.414108	8732620.977022	130.6763880000	-11.46004300000
81	682871.389099	8732622.846104	130.6764060000	-11.46002600000
82	682898.638966	8732636.515326	130.6766550000	-11.45990100000
83	682903.664911	8732656.397972	130.6767000000	-11.45972100000
84	682786.539249	8732048.550116	130.6756590000	-11.46522200000
85	682734.180196	8731995.092495	130.6751820000	-11.46570800000
86	682698.403386	8731847.178309	130.6748620000	-11.46704700000
87	682690.519710	8731842.467413	130.6747900000	-11.46709000000
88	682676.240445	8731863.789736	130.6746580000	-11.46689800000
89	682694.534530	8731857.377975	130.6748260000	-11.46695500000
90	682693.528735	8731853.290827	130.6748170000	-11.46699200000
91	682694.622422	8731853.726955	130.6748270000	-11.46698800000
92	682695.720610	8731854.937408	130.6748370000	-11.46697700000
93	682674.114765	8731685.812140	130.6746480000	-11.46850700000
94	682674.324627	8731684.372841	130.6746500000	-11.46852000000

Number	Easting	Northing	Latitude	Longitude
95	682672.134693	8731683.058114	130.6746300000	-11.4685320000
96	682661.588230	8731689.535464	130.6745330000	-11.4684740000
97	682675.080451	8731720.541671	130.6746550000	-11.4681930000
98	682671.141763	8731681.183320	130.6746210000	-11.4685490000
99	682667.221929	8731663.838534	130.6745860000	-11.4687060000
100	682678.766245	8731641.315264	130.6746930000	-11.4689090000
101	682638.829054	8731697.411250	130.6743240000	-11.4684040000
102	682637.952309	8731696.752617	130.6743160000	-11.4684100000
103	682634.806624	8731756.285243	130.6742840000	-11.4678720000
104	682649.658316	8731795.912033	130.6744180000	-11.4675130000
105	682794.539678	8731079.237562	130.6757840000	-11.4739840000
106	682642.510291	8731204.460540	130.6743840000	-11.4728600000
107	682642.556599	8731212.425019	130.6743840000	-11.4727880000
108	682623.909852	8731214.413996	130.6742130000	-11.4727710000
109	682620.210427	8731216.205447	130.6741790000	-11.4727550000
110	682622.391969	8731216.082143	130.6741990000	-11.4727560000
111	682621.843207	8731215.532226	130.6741940000	-11.4727610000
112	682622.277715	8731215.197836	130.6741980000	-11.4727640000
113	682629.428762	8731206.527785	130.6742640000	-11.4728420000
114	682633.018432	8731204.626349	130.6742970000	-11.4728590000
115	682641.209341	8731205.906184	130.6743720000	-11.4728470000
116	682628.867542	8731410.295819	130.6742480000	-11.4710000000
117	682623.260498	8731403.027395	130.6741970000	-11.4710660000
118	682624.010765	8731400.699983	130.6742040000	-11.4710870000
119	682614.089331	8731326.973132	130.6741170000	-11.4717540000
120	682621.354896	8731225.380377	130.6741890000	-11.4726720000
121	682621.657786	8731221.175000	130.6741920000	-11.4727100000
122	682627.254295	8731207.867885	130.6742440000	-11.4728300000
123	682625.844878	8731209.424780	130.6742310000	-11.4728160000
124	682629.965947	8731205.086582	130.6742690000	-11.4728550000
125	682658.756147	8731164.874198	130.6745350000	-11.4732170000
126	682800.743432	8731076.546539	130.6758410000	-11.4740080000
127	683420.802607	8730604.669052	130.6815490000	-11.4782410000
128	683405.388819	8730618.365593	130.6814070000	-11.4781180000
129	683416.721687	8730597.170600	130.6815120000	-11.4783090000
130	683425.603338	8730604.641006	130.6815930000	-11.4782410000
131	683385.645037	8730656.645483	130.6812240000	-11.4777730000
132	683372.399149	8730667.895657	130.6811020000	-11.4776720000
133	683388.137634	8730635.059649	130.6812480000	-11.4779680000
134	683388.570187	8730634.393391	130.6812520000	-11.4779740000
135	683392.236556	8730626.960307	130.6812860000	-11.4780410000
136	683393.271506	8730636.025260	130.6812950000	-11.4779590000
137	683392.190768	8730637.801523	130.6812850000	-11.4779430000
138	683391.877659	8730640.237034	130.6812820000	-11.4779210000
139	683368.045176	8730669.691035	130.6810620000	-11.4776560000
140	683350.904341	8730686.605662	130.6809040000	-11.4775040000
141	683344.704576	8730689.960521	130.6808470000	-11.4774740000

Number	Easting	Northing	Latitude	Longitude
142	683342.539214	8730692.849334	130.6808270000	-11.47744800000
143	683332.668534	8730702.862938	130.6807360000	-11.47735800000
144	683263.053884	8730758.690868	130.6800950000	-11.47685700000
145	683269.795336	8730754.669136	130.6801570000	-11.47689300000
146	683270.236933	8730755.551533	130.6801610000	-11.47688500000
147	682988.683382	8730860.071729	130.6775750000	-11.47595500000
148	682894.797560	8731001.440018	130.6767070000	-11.47468200000
149	682894.261679	8731003.102464	130.6767020000	-11.47466700000
150	682899.017607	8730976.636195	130.6767470000	-11.47490600000
151	682884.606012	8730993.866472	130.6766140000	-11.47475100000
152	682841.733694	8730976.637875	130.6762220000	-11.47490900000
153	682780.221306	8731037.505932	130.6756550000	-11.47436200000
154	682781.648088	8731038.935709	130.6756680000	-11.47434900000
155	682772.177516	8731042.751956	130.6755810000	-11.47431500000
156	682773.632942	8731030.353870	130.6755950000	-11.47442700000
157	682848.460425	8730970.072037	130.6762840000	-11.47496800000
158	682899.820731	8730927.183640	130.6767570000	-11.47535300000
159	682912.974525	8730918.810407	130.6768780000	-11.47542800000
160	682914.616305	8730919.685818	130.6768930000	-11.47542000000
161	682883.185769	8730937.347085	130.6766040000	-11.47526200000
162	682905.748478	8730895.843189	130.6768130000	-11.47563600000
163	682932.567206	8730891.925843	130.6770590000	-11.47567000000
164	682931.707227	8730894.143286	130.6770510000	-11.47565000000
165	682931.053866	8730894.368335	130.6770450000	-11.47564800000
166	682981.800077	8730839.757444	130.6775130000	-11.47613900000
167	682984.731815	8730837.306684	130.6775400000	-11.47616100000
168	682987.329139	8730833.641033	130.6775640000	-11.47619400000
169	682989.836691	8730833.294556	130.6775870000	-11.47619700000
170	682999.149079	8730821.071902	130.6776730000	-11.47630700000
171	683000.232424	8730819.738128	130.6776830000	-11.47631900000
172	683002.933695	8730815.186896	130.6777080000	-11.47636000000
173	683001.388133	8730812.098495	130.6776940000	-11.47638800000
174	683011.129205	8730798.545876	130.6777840000	-11.47651000000
175	683038.571547	8730789.314949	130.6780360000	-11.47659200000
176	683042.272836	8730787.855291	130.6780700000	-11.47660500000
177	684042.847678	8729637.287401	130.6873020000	-11.48695300000
178	684122.678320	8729668.235742	130.6880320000	-11.48666900000
179	684128.965487	8729661.229634	130.6880900000	-11.48673200000
180	684130.390495	8729866.868270	130.6880920000	-11.48487300000
181	684137.224580	8729841.495643	130.6881560000	-11.48510200000
182	684134.734634	8729844.828926	130.6881330000	-11.48507200000
183	684131.836665	8729908.785662	130.6881030000	-11.48449400000
184	684127.442529	8729922.307374	130.6880620000	-11.48437200000
185	684131.534720	8729894.517148	130.6881010000	-11.48462300000
186	684171.401360	8729585.646690	130.6884830000	-11.48741300000
187	684168.220450	8729582.789181	130.6884540000	-11.48743900000
188	684174.988815	8729583.413181	130.6885160000	-11.48743300000

Number	Easting	Northing	Latitude	Longitude
189	684173.695149	8729586.075713	130.6885040000	-11.48740900000
190	679881.919219	8711673.257477	130.6501170000	-11.64956400000
191	679875.125311	8711667.544681	130.6500550000	-11.64961600000
192	679886.992949	8711683.183896	130.6501630000	-11.64947400000
193	679867.986312	8711696.237167	130.6499880000	-11.64935700000
194	679854.738457	8711649.521342	130.6498690000	-11.64978000000
195	679857.133463	8711648.843684	130.6498910000	-11.64978600000
196	679883.653061	8711577.670434	130.6501380000	-11.65042800000
197	679884.855709	8711578.216545	130.6501490000	-11.65042300000
198	679846.270396	8711712.182338	130.6497880000	-11.64921400000
199	679797.215092	8711733.375042	130.6493370000	-11.64902500000
200	679805.255541	8711409.649953	130.6494280000	-11.65195100000
201	679790.153865	8711419.140601	130.6492890000	-11.65186600000
202	683850.812256	8728594.249684	130.6855980000	-11.49639200000
203	704603.479073	8702564.849164	130.8773710000	-11.73050300000
204	704608.029900	8702560.614680	130.8774130000	-11.73054100000
205	704602.758048	8702587.534285	130.8773630000	-11.73029800000
206	704501.280979	8702607.682227	130.8764310000	-11.73012200000
207	704500.300535	8702607.799393	130.8764220000	-11.73012100000
208	704498.972398	8702604.821077	130.8764100000	-11.73014800000
209	704498.977556	8702605.595492	130.8764100000	-11.73014100000
210	704518.457484	8702583.891790	130.8765900000	-11.73033600000
211	704515.504361	8702582.473198	130.8765630000	-11.73034900000
212	704503.943219	8702647.272051	130.8764530000	-11.72976400000
213	704503.501243	8702646.389909	130.8764490000	-11.72977200000
214	704503.062951	8702646.060922	130.8764450000	-11.72977500000
215	704502.626133	8702645.953195	130.8764410000	-11.72977600000
216	704502.839752	8702645.287959	130.8764430000	-11.72978200000
217	704507.646225	8702646.694209	130.8764870000	-11.72976900000
218	704508.407893	8702646.467864	130.8764940000	-11.72977100000
219	704511.878121	8702643.678859	130.8765260000	-11.72979600000
220	704515.192944	8702650.294918	130.8765560000	-11.72973600000
221	704504.631939	8702636.093265	130.8764600000	-11.72986500000
222	704502.739574	8702646.616254	130.8764420000	-11.72977000000
223	704502.959088	8702646.836063	130.8764440000	-11.72976800000
224	704500.464884	8702648.844116	130.8764210000	-11.72975000000
225	704502.305703	8702646.951050	130.8764380000	-11.72976700000
226	704502.307177	8702647.172312	130.8764380000	-11.72976500000
227	704274.790569	8702682.762546	130.8743490000	-11.72945700000
228	704273.814538	8702683.543488	130.8743400000	-11.72945000000
229	704069.329483	8702903.739943	130.8724510000	-11.72747200000
230	704069.330218	8702903.850574	130.8724510000	-11.72747100000
231	704069.427477	8702902.079762	130.8724520000	-11.72748700000
232	704065.627915	8702904.538987	130.8724170000	-11.72746500000
233	704067.602790	8702906.406666	130.8724350000	-11.72744800000
234	704013.938511	8702870.032283	130.8719450000	-11.72778000000
235	704013.713120	8702868.927427	130.8719430000	-11.72779000000

Number	Easting	Northing	Latitude	Longitude
236	703983.042733	8702880.194695	130.8716610000	-11.7276900000
237	703871.714871	8702566.287297	130.8706590000	-11.7305340000
238	703869.737824	8702564.087720	130.8706410000	-11.7305540000
239	703867.554250	8702957.742435	130.8705970000	-11.7269960000
240	682038.284150	8735682.145857	130.6686090000	-11.4324140000
241	682039.914630	8735681.030234	130.6686240000	-11.4324240000
242	682035.604291	8735633.820013	130.6685870000	-11.4328510000
243	682042.688335	8735405.457613	130.6686640000	-11.4349150000
244	682028.905335	8735267.482350	130.6685450000	-11.4361630000
245	682025.512939	8735265.842630	130.6685140000	-11.4361780000
246	681848.817722	8734846.503586	130.6669170000	-11.4399780000
247	682053.029362	8734022.525495	130.6688320000	-11.4474160000
248	681997.626286	8734065.656120	130.6683220000	-11.4470290000
249	682531.273568	8733451.163198	130.6732450000	-11.4525560000
250	682552.811350	8733439.423031	130.6734430000	-11.4526610000
251	682629.396624	8733380.017497	130.6741480000	-11.4531940000
252	682492.151325	8733441.323558	130.6728870000	-11.4526470000
253	682503.508465	8733442.806393	130.6729910000	-11.4526330000
254	682505.229316	8733438.482184	130.6730070000	-11.4526720000
255	682505.011083	8733438.483449	130.6730050000	-11.4526720000
256	682505.014290	8733439.036537	130.6730050000	-11.4526670000
257	682505.890433	8733439.584562	130.6730130000	-11.4526620000
258	682505.126615	8733439.588992	130.6730060000	-11.4526620000
259	682495.488067	8733527.478169	130.6729130000	-11.4518680000
260	683005.722849	8732980.810433	130.6776180000	-11.4567830000
261	683011.285812	8732980.446205	130.6776690000	-11.4567860000
262	683011.218240	8732968.831334	130.6776690000	-11.4568910000
263	682987.091943	8732910.674127	130.6774510000	-11.4574180000
264	683003.174724	8732899.186544	130.6775990000	-11.4575210000
265	682999.852606	8732703.295071	130.6775790000	-11.4592920000
266	683001.042568	8732701.518202	130.6775900000	-11.4593080000
267	683004.720924	8732696.076341	130.6776240000	-11.4593570000
268	683011.374353	8732658.094422	130.6776870000	-11.4597000000
269	683012.245981	8732657.868106	130.6776950000	-11.4597020000
270	683005.035757	8732600.165597	130.6776320000	-11.4602240000
271	683010.034091	8732577.790948	130.6776790000	-11.4604260000
272	683006.357683	8732583.564666	130.6776450000	-11.4603740000
273	683006.140742	8732583.787171	130.6776430000	-11.4603720000
274	683005.371793	8732582.906673	130.6776360000	-11.4603800000
275	683006.131730	8732582.238521	130.6776430000	-11.4603860000
276	683007.004000	8732582.122824	130.6776510000	-11.4603870000
277	682991.714185	8732561.083076	130.6775120000	-11.4605780000
278	682969.018572	8732411.212278	130.6773120000	-11.4619340000
279	682968.079056	8732343.517336	130.6773070000	-11.4625460000
280	682985.771465	8732271.178470	130.6774730000	-11.4631990000
281	682961.911693	8732127.509260	130.6772620000	-11.4644990000
282	682917.635854	8731981.857057	130.6768640000	-11.4658180000

Number	Easting	Northing	Latitude	Longitude
283	682919.381003	8731981.736280	130.6768800000	-11.46581900000
284	682866.391866	8731951.291812	130.6763960000	-11.46609700000
285	682886.778417	8731948.186415	130.6765830000	-11.46612400000
286	682879.404504	8731956.083451	130.6765150000	-11.46605300000
287	682846.957148	8731911.691739	130.6762200000	-11.46645600000
288	682847.174084	8731911.469234	130.6762220000	-11.46645800000
289	682849.018044	8731909.577940	130.6762390000	-11.46647500000
290	682787.130075	8731831.175392	130.6756760000	-11.46718700000
291	682776.084085	8731826.814773	130.6755750000	-11.46722700000
292	682797.514966	8731834.433638	130.6757710000	-11.46715700000
293	682788.099854	8731829.067943	130.6756850000	-11.46720600000
294	682803.291950	8731214.476824	130.6758570000	-11.47276100000
295	682807.656007	8731233.146474	130.6758960000	-11.47259200000
296	682807.983979	8731233.255187	130.6758990000	-11.47259100000
297	683032.154412	8730998.759274	130.6779660000	-11.47469900000
298	683086.462557	8730937.490152	130.6784670000	-11.47525000000
299	683087.439374	8730936.599484	130.6784760000	-11.47525800000
300	683287.349490	8730864.635429	130.6803120000	-11.47589800000
301	683507.602742	8730483.694497	130.6823510000	-11.47933000000
302	683439.525563	8730559.757775	130.6817230000	-11.47864600000
303	683439.524270	8730559.536539	130.6817230000	-11.47864800000
304	683357.618638	8730677.937945	130.6809660000	-11.47758200000
305	683355.657282	8730678.391886	130.6809480000	-11.47757800000
306	683348.542726	8730693.256766	130.6808820000	-11.47744400000
307	683149.737109	8730786.011854	130.6790550000	-11.47661600000
308	683928.353016	8729276.887691	130.6862720000	-11.49021700000
309	682123.760470	8710953.145812	130.6707150000	-11.65595500000
310	682210.406222	8711001.419717	130.6715070000	-11.65551400000
311	679730.061145	8711529.890167	130.6487320000	-11.65086800000
312	679585.494042	8711515.132566	130.6474070000	-11.65100900000
313	679576.332676	8711496.048286	130.6473240000	-11.65118200000
314	679583.915914	8711487.486399	130.6473940000	-11.65125900000
315	679596.263631	8711491.950152	130.6475070000	-11.65121800000
316	679581.205367	8711490.157054	130.6473690000	-11.65123500000
317	667068.219326	8727602.954761	130.5318190000	-11.50620300000
318	683639.150273	8728501.240280	130.6836630000	-11.49724400000
319	683568.298430	8728382.072736	130.6830200000	-11.49832500000
320	683587.185257	8728365.479401	130.6831940000	-11.49847400000
321	683586.966409	8728365.370061	130.6831920000	-11.49847500000
322	683586.965761	8728365.259442	130.6831920000	-11.49847600000
323	683581.994713	8728354.779453	130.6831470000	-11.49857100000
324	683583.495543	8728350.235152	130.6831610000	-11.49861200000
325	683583.357932	8728345.368581	130.6831600000	-11.49865600000
326	683582.157835	8728345.375611	130.6831490000	-11.49865600000
327	683587.748725	8728331.293842	130.6832010000	-11.49878300000
328	683592.183760	8728362.020832	130.6832400000	-11.49850500000
329	683580.911559	8728300.249057	130.6831400000	-11.49906400000

Number	Easting	Northing	Latitude	Longitude
330	683580.914151	8728300.691531	130.6831400000	-11.4990600000
331	683584.764801	8728324.784612	130.6831740000	-11.4988420000
332	683575.476258	8728285.015034	130.6830910000	-11.4992020000
333	683539.741114	8728275.047104	130.6827640000	-11.4992940000
334	683533.108721	8728278.957724	130.6827030000	-11.4992590000
335	683532.243052	8728280.179638	130.6826950000	-11.4992480000
336	683535.792802	8728271.530319	130.6827280000	-11.4993260000
337	683532.582240	8728356.728191	130.6826940000	-11.4985560000
338	683535.316591	8728376.513546	130.6827180000	-11.4983770000
339	683536.849171	8728377.389548	130.6827320000	-11.4983690000
340	683536.789951	8728385.907802	130.6827310000	-11.4982920000
341	683536.109642	8728456.046237	130.6827210000	-11.4976580000
342	683485.734763	8728368.175338	130.6822640000	-11.4984550000
343	683482.568466	8728274.607543	130.6822400000	-11.4993010000
344	690259.721918	8706960.845146	130.7455524600	-11.69159982000
345	695717.789211	8706321.341476	130.7956482578	-11.69707131348
346	695665.619283	8706181.664096	130.7951779200	-11.69833687000
347	695665.327305	8706181.871724	130.7951752300	-11.69833501000
348	704800.668490	8702568.654665	130.8791794300	-11.73045672000
349	704798.306310	8702566.915738	130.8791578700	-11.73047258000
350	704797.881818	8702569.473150	130.8791538200	-11.73044949000
351	704111.166563	8702507.575277	130.8728588900	-11.73105030000
352	683837.257049	8728595.354653	130.6854737000	-11.49638273000
353	683837.618322	8728599.656848	130.6854767800	-11.49634382000
354	682903.189020	8732601.026919	130.6766985900	-11.46022157000
355	682826.903414	8732467.547698	130.6760065900	-11.46143221000
356	683380.684503	8730677.933719	130.6811773975	-11.47758082050
357	683379.242804	8730679.323863	130.6811641100	-11.47756833000
358	683367.269439	8730687.635121	130.6810539300	-11.47749383000
359	683350.963617	8730659.946543	130.6809059700	-11.47774499000
360	683357.174873	8730658.186782	130.6809629900	-11.47776057000
361	683359.256898	8730658.030816	130.6809820800	-11.47776187000
362	683370.555666	8730648.550907	130.6810861400	-11.47784697000
363	683370.091738	8730648.329053	130.6810819000	-11.47784900000
364	683369.971422	8730648.091919	130.6810808100	-11.47785115000
365	683368.557614	8730644.962938	130.6810680200	-11.47787951000
366	682825.887182	8732468.801417	130.6759972100	-11.46142093000
367	683368.266752	8730642.240019	130.6810655000	-11.47790414000
368	683376.672585	8730629.891982	130.6811432000	-11.47801532000
369	683377.648916	8730629.481404	130.6811521700	-11.47801898000
370	683390.498461	8730627.155197	130.6812700600	-11.47803933000
371	683365.525310	8730691.655351	130.6810377300	-11.47745758000
372	683353.633369	8730707.185312	130.6809279100	-11.47731782000
373	683336.361236	8730712.082730	130.6807693500	-11.47727446000
374	683331.332748	8730712.909674	130.6807232200	-11.47726725000
375	683329.643507	8730713.437247	130.6807077100	-11.47726257000
376	683328.933383	8730722.440484	130.6807007200	-11.47718122000

Number	Easting	Northing	Latitude	Longitude
377	682820.508867	8732486.081898	130.6759470000	-11.4612650000
378	683330.455121	8730722.003492	130.6807146900	-11.4771850900
379	683295.388721	8730747.217601	130.6803919600	-11.47695901000
380	683267.699062	8730761.732407	130.6801374100	-11.47682926000
381	683266.708852	8730761.448357	130.6801283500	-11.47683188000
382	683219.019212	8730776.188244	130.6796904900	-11.47670115000
383	683154.735121	8730801.470861	130.6790999800	-11.47647599000
384	683145.690575	8730800.676249	130.6790171300	-11.47648365000
385	683145.542213	8730804.048867	130.6790155900	-11.47645317000
386	682929.730710	8730924.216238	130.6770312800	-11.47537825000
387	682838.779714	8732513.331259	130.6761129900	-11.46101771000
388	682932.203970	8730913.672861	130.6770545100	-11.47547343000
389	682910.088542	8730998.251351	130.6768473100	-11.47471002000
390	682897.197722	8731012.441745	130.6767284100	-11.47458242000
391	682862.810947	8730973.459792	130.6764153400	-11.47493662000
392	682778.990433	8731046.116135	130.6756432600	-11.47428423000
393	682804.205741	8730994.088964	130.6758771300	-11.47475322000
394	682841.388434	8732514.409031	130.6761368400	-11.46100783000
395	682835.992891	8730969.445492	130.6761697700	-11.47497432000
396	682875.400205	8730918.163062	130.6765336700	-11.47543583000
397	682910.057401	8730886.304630	130.6768530000	-11.47572200000
398	682936.430999	8730878.837810	130.6770951100	-11.47578811000
399	682936.861219	8730879.641736	130.6770990100	-11.47578082000
400	682934.989267	8730885.143901	130.6770815600	-11.47573118000
401	682943.191443	8730878.767275	130.6771570726	-11.47578839162
402	682957.593272	8730855.054762	130.6772903300	-11.47600199000
403	682978.028041	8730837.128927	130.6774785700	-11.47616296000
404	682982.023404	8730831.832310	130.6775154700	-11.47621063000
405	682848.250277	8732519.567237	130.6761994500	-11.46096084000
406	682984.266292	8730831.091463	130.6775360654	-11.47621720898
407	682984.266292	8730831.091463	130.6775360654	-11.47621720898
408	682984.266292	8730831.091463	130.6775360654	-11.47621720898
409	683003.822586	8730797.711228	130.6777170800	-11.47651793000
410	683030.569716	8730789.573983	130.6779626500	-11.47659008000
411	682834.057763	8732496.929208	130.6760705900	-11.46116623000
412	682833.423345	8732497.603263	130.6760647400	-11.46116017000
413	682874.330004	8732620.812372	130.6764330600	-11.46004423000
414	682877.734331	8732617.783670	130.6764644200	-11.46007143000
415	682858.250128	8732433.119213	130.6762957000	-11.46174179000
416	682877.595133	8732620.304438	130.6764630100	-11.46004865000
417	682876.710069	8732622.348339	130.6764547900	-11.46003022000
418	682876.485852	8732623.383954	130.6764526800	-11.46002087000
419	682881.017388	8732621.484780	130.6764943100	-11.46003780000
420	682878.169822	8732625.120876	130.6764680200	-11.46000508000
421	682877.310529	8732625.216582	130.6764601400	-11.46000426000
422	682878.921290	8732627.499293	130.6764747800	-11.45998354000
423	682878.746494	8732627.838811	130.6764731600	-11.45998048000

Number	Easting	Northing	Latitude	Longitude
424	682878.745735	8732627.708283	130.6764731600	-11.45998166000
425	682878.602451	8732626.899366	130.6764718900	-11.45998898000
426	682868.026132	8732617.600075	130.6763754600	-11.46007360000
427	682900.642224	8732645.308043	130.6766728900	-11.45982141000
428	682876.726143	8732677.091516	130.6764520200	-11.45953535000
429	682709.572848	8731887.795535	130.6749622000	-11.46667924000
430	682768.478650	8732002.430830	130.6754959400	-11.46563986000
431	682802.482940	8732040.238221	130.6758055600	-11.46529630000
432	682725.714294	8732011.676304	130.6751035300	-11.46555853000
433	682815.102289	8732195.611299	130.6759129300	-11.46389109000
434	682699.160344	8731849.003588	130.6748688400	-11.46703046000
435	682691.589115	8731846.422552	130.6747995900	-11.46705419000
436	682703.106059	8731868.919067	130.6749039400	-11.46685022000
437	682693.433011	8731859.160959	130.6748158100	-11.46693894000
438	682693.212295	8731855.354651	130.6748139900	-11.46697336000
439	682692.463381	8731855.476263	130.6748071200	-11.46697230000
440	682693.843422	8731849.986947	130.6748200600	-11.46702185000
441	682685.051262	8731716.021239	130.6747466200	-11.46823334000
442	682698.091448	8731712.623466	130.6748663100	-11.46826337000
443	682679.327330	8731726.571297	130.6746936000	-11.46813827000
444	682681.608892	8731676.450928	130.6747171800	-11.46859123000
445	682680.945454	8731660.493211	130.6747119500	-11.46873552000
446	682644.789144	8731617.293306	130.6743828900	-11.46912794000
447	682630.377514	8731638.353111	130.6742496900	-11.46893832000
448	682628.760742	8731628.267193	130.6742354100	-11.46902958000
449	682643.321611	8731622.183561	130.6743691800	-11.46908381000
450	682643.586001	8731622.428710	130.6743715900	-11.46908158000
451	682643.650526	8731622.641834	130.6743721700	-11.46907965000
452	682633.664424	8731745.998554	130.6742740800	-11.46796505000
453	682634.327819	8731757.635394	130.6742795400	-11.46785982000
454	682820.557260	8732472.634467	130.6759481600	-11.46138656000
455	682620.917137	8731770.135010	130.6741559700	-11.46774753000
456	682651.294245	8731844.402291	130.6744304100	-11.46707457000
457	682808.491358	8731090.205248	130.6759112800	-11.47388412000
458	682644.394623	8731228.848261	130.6743999700	-11.47263944000
459	682641.120292	8731226.809739	130.6743700700	-11.47265804000
460	682641.149430	8731226.191196	130.6743703700	-11.47266363000
461	682641.310287	8731226.082958	130.6743718500	-11.47266460000
462	682825.932578	8732476.796875	130.6759972000	-11.46134865000
463	682642.349934	8731235.807180	130.6743808600	-11.47257664000
464	682642.604911	8731238.562385	130.6743830500	-11.47255172000
465	682641.352272	8731236.494409	130.6743716800	-11.47257048000
466	682642.328010	8731236.352671	130.6743806300	-11.47257171000
467	682646.629899	8731236.089822	130.6744200700	-11.47257386000
468	682655.941470	8731336.277564	130.6745000700	-11.47166769000
469	682656.002853	8731351.510066	130.6744998209	-11.47152998748
470	682650.111150	8731329.829042	130.6744469800	-11.47172629000

Number	Easting	Northing	Latitude	Longitude
471	682655.140555	8731327.828526	130.6744931800	-11.47174411000
472	682656.882385	8731340.687581	130.6745084583	-11.47162777473
473	682817.703772	8732492.329515	130.6759209600	-11.46120867000
474	682617.616042	8731407.718475	130.6741450200	-11.47102389000
475	682618.607670	8731406.367554	130.6741541800	-11.47103605000
476	682618.272624	8731406.168170	130.6741511200	-11.47103787000
477	682620.751125	8731401.910284	130.6741740617	-11.47107623036
478	682605.079885	8731323.788717	130.6740346000	-11.47178326000
479	682618.390405	8731216.905269	130.6741622825	-11.47274876938
480	682623.598916	8731200.531701	130.6742108900	-11.47289651000
481	682622.320429	8731203.222159	130.6741990295	-11.47287225590
482	682623.487949	8731194.770073	130.6742101800	-11.47294860000
483	682634.205035	8731187.642369	130.6743087800	-11.47301247000
484	682815.648090	8732489.154461	130.6759022900	-11.46123748000
485	682633.179358	8731188.202547	130.6742993500	-11.47300746000
486	682640.039913	8731178.927975	130.6743627200	-11.47309094000
487	682643.627732	8731168.264219	130.6743961700	-11.47318715000
488	683432.691822	8730612.403973	130.6816575500	-11.47817045000
489	683427.350245	8730604.460443	130.6816090200	-11.47824254000
490	683431.117183	8730609.387662	130.6816432800	-11.47819780000
491	683392.938833	8730663.879592	130.6812904600	-11.47770722000
492	683389.748733	8730664.494477	130.6812611900	-11.47770183000
493	683384.344159	8730669.676599	130.6812113800	-11.47765527000
494	682059.396865	8734039.546433	130.6688894500	-11.44726180000
495	682609.441664	8733421.932676	130.6739629000	-11.45281614000
496	682611.881185	8733422.237109	130.6739852400	-11.45281326000
497	682611.266568	8733422.378953	130.6739796000	-11.45281201000
498	682609.330583	8733421.030651	130.6739619300	-11.45282430000
499	682608.641715	8733420.411850	130.6739556500	-11.45282993000
500	682608.787399	8733420.131133	130.6739570000	-11.45283246000
501	682611.671210	8733418.960618	130.6739834900	-11.45284289000
502	682613.067322	8733418.663795	130.6739963000	-11.45284550000
503	682613.615115	8733418.476984	130.6740013300	-11.45284716000
504	682613.623259	8733417.435991	130.6740014600	-11.45285657000
505	682060.414613	8734040.993001	130.6688987000	-11.44724867000
506	682626.694524	8733409.301371	130.6741216800	-11.45292942000
507	682626.628176	8733403.509623	130.6741213800	-11.45298178000
508	682632.274993	8733404.232395	130.6741730900	-11.45297495000
509	682640.194542	8733387.991467	130.6742465300	-11.45312135000
510	682640.277001	8733387.158010	130.6742473300	-11.45312888000
511	682640.908731	8733388.272725	130.6742530600	-11.45311877000
512	682639.014284	8733375.092126	130.6742364000	-11.45323802000
513	682655.965375	8733376.087782	130.6743916900	-11.45322813000
514	682643.173538	8733382.916569	130.6742741000	-11.45316707000
515	682055.039505	8734045.756448	130.6688491900	-11.44720589000
516	682658.527882	8733371.450041	130.6744154200	-11.45326992000
517	682530.026749	8733400.630886	130.6732362600	-11.45301287000

Number	Easting	Northing	Latitude	Longitude
518	682501.767147	8733424.033001	130.6729760400	-11.45280280000
519	682486.750527	8733435.982003	130.6728377900	-11.45269557000
520	682476.663555	8733452.565097	130.6727444700	-11.45254619000
521	682472.939232	8733457.451815	130.6727100800	-11.45250221000
522	682471.662643	8733462.930544	130.6726980900	-11.45245275000
523	682473.049298	8733490.737110	130.6727093200	-11.45220131000
524	682757.695047	8733160.778751	130.6753354200	-11.45516915000
525	682769.344645	8733140.863382	130.6754432400	-11.45534857000
526	682775.318313	8733138.500098	130.6754981100	-11.45536962000
527	682775.302445	8733137.459243	130.6754980200	-11.45537903000
528	682889.315254	8732871.341592	130.6765570400	-11.45777870000
529	682900.655964	8732861.581888	130.6766614900	-11.45786633000
530	682889.275909	8732759.108554	130.6765626600	-11.45879327000
531	682873.975688	8732741.155151	130.6764234000	-11.45895637000
532	682874.433523	8732742.952301	130.6764275000	-11.45894010000
533	682873.582146	8732740.281317	130.6764198400	-11.45896429000
534	682880.913614	8732726.361219	130.6764877700	-11.45908974000
535	682883.920001	8732732.771954	130.6765149800	-11.45903163000
536	682882.873433	8732733.501504	130.6765053500	-11.45902509000
537	682907.197835	8732634.579452	130.6767335400	-11.45991805000
538	682926.030658	8732627.288363	130.6769065200	-11.45998297000
539	682867.292217	8732714.886005	130.6763635500	-11.45919419000
540	681924.460311	8734167.562595	130.6676461100	-11.44611160000
541	682604.854790	8733435.944040	130.6739201200	-11.45268972000
542	682609.163211	8733420.770556	130.6739604100	-11.45282666000
543	681836.572402	8734615.602400	130.6668170000	-11.44206596000
544	681846.333388	8735429.030489	130.6668634300	-11.43471215000
545	681971.675990	8735658.004647	130.6679999100	-11.43263571000
546	681973.062556	8735659.439139	130.6680125400	-11.43262267000
547	681972.121234	8735651.198895	130.6680043500	-11.43269721000
548	681970.322770	8735651.381845	130.6679878600	-11.43269565000
549	681895.942117	8735607.476489	130.6673085900	-11.43309643000
550	681670.762255	8734941.422384	130.6652803200	-11.43912923000
551	679527.968267	8711334.410523	130.6468890700	-11.65264572000
552	679942.464957	8711710.463432	130.6506702600	-11.64922448000
553	679872.115415	8711677.167515	130.6500268839	-11.64952916942
554	679844.758364	8711712.625874	130.6497741100	-11.64921007000
555	679527.827960	8711335.786361	130.6468877100	-11.65263329000
556	679845.003266	8711711.799214	130.6497764000	-11.64921753000
557	679843.439429	8711714.959914	130.6497618900	-11.64918904000
558	679858.760380	8711646.968037	130.6499060200	-11.64980287000
559	679857.930589	8711649.034847	130.6498983000	-11.64978423000
560	679858.448886	8711647.968760	130.6499031100	-11.64979384000
561	679858.464582	8711648.042785	130.6499032500	-11.64979317000
562	679849.645984	8711582.189128	130.6498258900	-11.65038894000
563	679854.730981	8711583.932813	130.6498724300	-11.65037291000
564	679542.800462	8711447.124947	130.6470190900	-11.65162602000

Number	Easting	Northing	Latitude	Longitude
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567	679544.138417	8711447.314083	130.6470313500	-11.65162424000
568	679222.112504	8711699.123209	130.6440647400	-11.64936481000
569	682825.376739	8710693.013777	130.6771634800	-11.65826907000
570	682835.949587	8710688.072739	130.6772607100	-11.65831317000
571	682873.524431	8710656.435632	130.6776070200	-11.65859715000
572	682883.853854	8710665.086064	130.6777012800	-11.65851840000
573	704515.653434	8702606.822296	130.8765628797	-11.73012890736
574	704507.253899	8702643.761141	130.8764835807	-11.72979553468
575	704515.342360	8702659.468936	130.8765568100	-11.72965307000
576	704515.229420	8702656.098621	130.8765559800	-11.72968354000
577	704514.269799	8702653.122276	130.8765473600	-11.72971050000
578	704512.175775	8702653.011205	130.8765281600	-11.72971163000
579	704513.990258	8702653.711613	130.8765447600	-11.72970519000
580	704516.440967	8702655.812855	130.8765671100	-11.72968605000
581	704514.876825	8702651.939963	130.8765530000	-11.72972115000
582	704517.991241	8702654.493710	130.8765814100	-11.72969788000
583	704490.697426	8702707.793870	130.8763278100	-11.72921776000
584	703992.116545	8702867.169071	130.8717450200	-11.72780719000
585	703987.514930	8702875.101211	130.8717023300	-11.72773577000
586	703983.387940	8702877.343543	130.8716643400	-11.72771575000
587	703979.476804	8702875.972197	130.8716285500	-11.72772838000
588	703979.203386	8702876.664378	130.8716260000	-11.72772214000
589	703979.724184	8702876.940826	130.8716307600	-11.72771961000
590	703979.714482	8702876.957486	130.8716306700	-11.72771946000
591	703983.794856	8702878.530169	130.8716680000	-11.72770500000
592	703881.997850	8702988.431917	130.8707276100	-11.72671774000
593	703883.868719	8702986.622781	130.8707448800	-11.72673398000
594	683630.373770	8728910.986515	130.6835605600	-11.49354045000
595	683571.580069	8728733.770070	130.6830312000	-11.49514556000
596	683565.122507	8728404.440337	130.6829896900	-11.49812297000
597	683567.130479	8728396.323289	130.6830085300	-11.49819624000
598	683567.050422	8728398.115837	130.6830077000	-11.49818004000
599	683576.692022	8728355.852575	130.6830983400	-11.49856158000
600	683561.962850	8728348.926509	130.6829637100	-11.49862497000
601	683565.285103	8728373.151007	130.6829928600	-11.49840581000
602	683572.954126	8728321.951070	130.6830659000	-11.49886824000
603	683565.061319	8728340.904846	130.6829925400	-11.49869732000
604	683565.878488	8728339.970833	130.6830000800	-11.49870572000
605	683569.211357	8728288.893641	130.6830333700	-11.49916727000
606	683565.402771	8728288.370582	130.6829984900	-11.49917220000
607	683562.220565	8728282.467616	130.6829696400	-11.49922573000
608	683548.729999	8728354.195511	130.6828421400	-11.49857804000
609	683538.628784	8728362.026147	130.6827491359	-11.49850778755
610	683541.021612	8728367.197830	130.6827707900	-11.49846091000
611	683538.463720	8728365.993754	130.6827474100	-11.49847193000

Number	Easting	Northing	Latitude	Longitude
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614	683561.863165	8728349.496563	130.6829627657	-11.49861982211
615	683544.714129	8728427.263955	130.6828014100	-11.49791773000
616	683546.125136	8728427.687118	130.6828143200	-11.49791383000
617	683556.155413	8728456.998563	130.6829046800	-11.49764833000
618	683554.588628	8728456.803088	130.6828903300	-11.49765018000
619	683551.833598	8728454.913202	130.6828651800	-11.49766741000
620	683558.673356	8728742.407799	130.6829124400	-11.49506816000
621	683517.442878	8728764.938804	130.6825333333	-11.49486666667
622	683496.142185	8728767.533819	130.6823379628	-11.49484433538
623	683495.362939	8728769.036798	130.6823307400	-11.49483079000
624	683460.134144	8728437.040353	130.6820256600	-11.49783383000
625	683471.034067	8728422.581291	130.6821263400	-11.49796396000
626	683461.710702	8728252.715852	130.6820500000	-11.49950000000
627	683573.115515	8728330.877335	130.6830669000	-11.49878754000
628	683495.362939	8728769.036798	130.6823307400	-11.49483079000
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Number	Easting	Northing	Latitude	Longitude
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664	683496.142185	8728767.533819	130.6823379628	-11.49484433538
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667	683496.142185	8728767.533819	130.6823379628	-11.49484433538
668	683576.692022	8728355.852575	130.6830983400	-11.49856158000
669	683576.692022	8728355.852575	130.6830983400	-11.49856158000
670	683576.692022	8728355.852575	130.6830983400	-11.49856158000
671	683461.710702	8728252.715852	130.6820500000	-11.49950000000
672	683538.463720	8728365.993754	130.6827474100	-11.49847193000
673	683517.442878	8728764.938804	130.6825333333	-11.49486666667
674	683517.442878	8728764.938804	130.6825333333	-11.49486666667
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703	683517.442878	8728764.938804	130.6825333333	-11.49486666667
704	683517.442878	8728764.938804	130.6825333333	-11.49486666667
705	683517.442878	8728764.938804	130.6825333333	-11.49486666667

Number	Easting	Northing	Latitude	Longitude
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708	683548.729999	8728354.195511	130.6828421400	-11.49857804000
709	683548.729999	8728354.195511	130.6828421400	-11.49857804000
710	683548.729999	8728354.195511	130.6828421400	-11.49857804000
711	684142.025521	8729660.446105	130.6882097400	-11.48673839000
712	684142.436372	8729844.783729	130.6882035900	-11.48507200000
713	682993.091477	8732364.996080	130.6775350800	-11.46235052000
714	682990.134056	8732363.623885	130.6775080500	-11.46236308000
715	682987.403327	8732364.830066	130.6774829600	-11.46235232000
716	682987.216177	8732365.483823	130.6774812100	-11.46234642000
717	682990.708822	8732369.950308	130.6775129800	-11.46230586000
718	682991.474568	8732328.659659	130.6775222000	-11.46267908000
719	682985.697636	8732314.550310	130.6774700100	-11.46280693000
720	682985.600059	8732314.658181	130.6774691100	-11.46280596000
721	682992.231228	8732336.803642	130.6775287000	-11.46260542000
722	683000.325080	8732329.977642	130.6776032400	-11.46266670000
723	682997.792889	8732333.235805	130.6775798600	-11.46263738000
724	683000.917107	8732328.020618	130.6776087700	-11.46268436000
725	682992.782702	8732258.138517	130.6775379500	-11.46331651000
726	682995.315479	8732265.855119	130.6775607500	-11.46324662000
727	682995.042967	8732263.841180	130.6775583600	-11.46326484000
728	682984.184104	8732183.303270	130.6774631400	-11.46399346000
729	682977.527871	8732138.851110	130.6774045100	-11.46439565000
730	682972.207320	8732092.352419	130.6773582300	-11.46481627000
731	682970.481039	8732095.528458	130.6773422400	-11.46478765000
732	682968.049102	8732075.889579	130.6773210000	-11.46496531000
733	682933.237398	8731989.198926	130.6770065900	-11.46575081000
734	682878.034639	8731939.125392	130.6765033500	-11.46620637000
735	682901.541908	8731957.587415	130.6767178000	-11.46603824000
736	682897.047024	8731948.891059	130.6766770700	-11.46611709000
737	682809.999152	8731821.732469	130.6758860900	-11.46727116000
738	682803.173542	8731822.028813	130.6758235200	-11.46726884000
739	682803.310672	8731799.456797	130.6758259800	-11.46747288000
740	682822.018720	8731801.003977	130.6759973500	-11.46745791000
741	682808.039767	8731822.163122	130.6758681100	-11.46726737000
742	682804.498562	8731817.776557	130.6758358900	-11.46730721000
743	682811.560019	8731814.881447	130.6759007600	-11.46733301000
744	682809.884030	8731795.563400	130.6758864300	-11.46750773000
745	682787.448865	8731387.586678	130.6757025700	-11.47119695000
746	682791.232254	8731289.205500	130.6757424900	-11.47208610000
747	682812.009492	8731227.687407	130.6759361900	-11.47264112000
748	683055.033538	8730992.094825	130.6781760400	-11.47475804000
749	683070.696346	8730997.475988	130.6783193000	-11.47470857000
750	683083.012488	8730979.614007	130.6784331300	-11.47486939000
751	683091.295039	8730977.151957	130.6785091700	-11.47489121000
752	683107.739880	8730963.765986	130.6786606000	-11.47501135000

Number	Easting	Northing	Latitude	Longitude
753	683301.949518	8730877.115751	130.6804451400	-11.47578441000
754	683514.899352	8730442.133194	130.6824201000	-11.47970532000
755	683537.581931	8730425.632956	130.6826288700	-11.47985328000
756	683514.919207	8730452.809208	130.6824197100	-11.47960881000
757	683461.798665	8730501.918360	130.6819302300	-11.47916768000
758	683468.648623	8730486.230851	130.6819938500	-11.47930913000
759	683453.639784	8730507.220581	130.6818551700	-11.47912018000
760	683423.940542	8730557.399661	130.6815802900	-11.47866814000
761	683422.249374	8730542.467834	130.6815655900	-11.47880321000
762	683408.374445	8730585.736805	130.6814361100	-11.47841280000
763	683392.341958	8730582.800522	130.6812893300	-11.47844019000
764	683359.346797	8730651.564440	130.6809832500	-11.47782032000
765	683353.936571	8730630.928543	130.6809347700	-11.47800715000
766	683352.670661	8730639.485903	130.6809227100	-11.47792986000
767	683331.278155	8730677.301644	130.6807246251	-11.47758914241
768	683335.989143	8730664.239827	130.6807685000	-11.47770697000
769	683311.405372	8730693.681952	130.6805416157	-11.47744211652
770	683302.737130	8730697.080695	130.6804619900	-11.47741185000
771	683258.109197	8730720.968912	130.6800517000	-11.47719826000
772	683262.441275	8730725.515630	130.6800911600	-11.47715693000
773	683240.575304	8730729.252831	130.6798905600	-11.47712430000
774	683238.397491	8730729.823074	130.6798705700	-11.47711926000
775	683246.470561	8730736.191684	130.6799442185	-11.47706126312
776	683168.491386	8730750.871859	130.6792287600	-11.47693267000
777	683165.749220	8730745.040386	130.6792039400	-11.47698553000
778	682979.530702	8732196.497645	130.6774197900	-11.46387443000
779	682087.874859	8734209.238081	130.6691414300	-11.44572632000
780	682091.692583	8734207.454918	130.6691765100	-11.44574224000
781	682392.244650	8733822.576488	130.6719511908	-11.44920576321
782	682504.291590	8733695.466334	130.6729847500	-11.45034895000
783	682507.762703	8733697.153093	130.6730164700	-11.45033352000
784	682508.491551	8733697.326967	130.6730231400	-11.45033191000
785	682506.563814	8733693.827027	130.6730056600	-11.45036365000
786	682545.324701	8733641.307155	130.6733636600	-11.45083639000
787	682535.936002	8733659.944630	130.6732766304	-11.45066840219
788	682545.502137	8733642.173396	130.6733652400	-11.45082855000
789	682547.042981	8733641.806047	130.6733793800	-11.45083179000
790	682327.375505	8733871.376342	130.6713541352	-11.44876801632
791	682557.402739	8733578.556871	130.6734776800	-11.45140301000
792	682556.596779	8733587.018173	130.6734698443	-11.45132656335
793	682584.817588	8733620.376410	130.6737266900	-11.45102353000
794	682570.516905	8733615.426098	130.6735959000	-11.45106903000
795	682570.577927	8733615.787476	130.6735964400	-11.45106576000
796	682589.106947	8733605.670974	130.6737667800	-11.45115624000
797	682712.873441	8733454.383760	130.6749090400	-11.45251736000
798	682707.654278	8733454.961637	130.6748611800	-11.45251241000
799	682714.198615	8733465.173818	130.6749206100	-11.45241975000

Number	Easting	Northing	Latitude	Longitude
800	682776.823015	8733400.916339	130.6754979300	-11.45299734000
801	682748.019181	8733416.636995	130.6752331300	-11.45285674000
802	682772.748551	8733390.600222	130.6754611400	-11.45309081000
803	682813.241699	8733351.650820	130.6758343000	-11.45344078000
804	682829.722060	8733351.633612	130.6759853300	-11.45344007000
805	682828.894150	8733352.251265	130.6759777100	-11.45343453000
806	682829.200041	8733350.246133	130.6759806200	-11.45345264000
807	682829.118805	8733349.223357	130.6759799300	-11.45346189000
808	682828.504791	8733352.473664	130.6759741300	-11.45343254000
809	682826.012540	8733357.742663	130.6759510100	-11.45338504000
810	682845.618320	8733275.698073	130.6761350500	-11.45412568000
811	682850.484422	8733296.427912	130.6761785400	-11.45393803000
812	682852.410348	8733270.511493	130.6761975698	-11.45417220904
813	682851.072303	8733268.213812	130.6761854300	-11.45419305000
814	682849.551026	8733268.940585	130.6761714500	-11.45418656000
815	682847.010645	8733270.995208	130.6761480600	-11.45416812000
816	682856.670945	8733270.037504	130.6762366400	-11.45417627000
817	683016.351684	8732974.727466	130.6777157300	-11.45683743000
818	683024.257724	8732978.913849	130.6777879600	-11.45679917000
819	683014.528791	8732923.233776	130.6777017700	-11.45730302000
820	683014.672065	8732924.040479	130.6777030400	-11.45729572000
821	683015.471892	8732892.529697	130.6777120500	-11.45758053000
822	683017.247817	8732896.376738	130.6777281200	-11.45754566000
823	683017.673844	8732896.081112	130.6777320400	-11.45754831000
824	683020.951434	8732896.772232	130.6777620400	-11.45754189000
825	683018.870686	8732894.172564	130.6777431100	-11.45756550000
826	683014.867894	8732891.681425	130.6777065600	-11.45758823000
827	683007.084627	8732906.718143	130.6776344300	-11.45745271000
828	683011.173350	8732905.786152	130.6776719500	-11.45746092000
829	683016.668644	8732739.454551	130.6777311800	-11.45896424000
830	683012.630266	8732734.220206	130.6776944500	-11.45901177000
831	683010.796561	8732736.944423	130.6776775000	-11.45898724000
832	683025.264324	8732664.899784	130.6778139300	-11.45963775000
833	683029.321967	8732668.757881	130.6778509100	-11.45960266000
834	683024.412786	8732659.953317	130.6778063900	-11.45968251000
835	683033.286256	8732613.265822	130.6778902000	-11.46010409000
836	683036.662144	8732602.541321	130.6779217100	-11.46020086000
837	683039.377885	8732609.067676	130.6779462500	-11.46014172000
838	683043.387828	8732613.315688	130.6779827721	-11.46010310773
839	683035.386479	8732623.676005	130.6779088920	-11.46000987326
840	683036.130885	8732595.734320	130.6779172044	-11.46026242205
841	683018.795364	8732550.076817	130.6777607700	-11.46067607000
842	683011.045402	8732554.504749	130.6776895100	-11.46063645000
843	683007.276481	8732544.193520	130.6776555200	-11.46072986000
844	683013.420248	8732551.393523	130.6777114400	-11.46066445000
845	683012.606745	8732561.794475	130.6777034300	-11.46057047000
846	683013.751616	8732539.333841	130.6777151200	-11.46077345000

Number	Easting	Northing	Latitude	Longitude
847	682980.014378	8732409.722379	130.6774128500	-11.46194689000
848	682982.926986	8732405.643404	130.6774397600	-11.46198361000
849	682975.917337	8732409.776089	130.6773753000	-11.46194662000
850	681895.209821	8734683.354308	130.6673507600	-11.44145043000
851	682096.371651	8735634.861784	130.6691437900	-11.43283841000
852	682097.859126	8735632.605375	130.6691575400	-11.43285873000
853	682098.209369	8735635.051393	130.6691606200	-11.43283660000
854	682074.557459	8735494.760865	130.6689513096	-11.43410604500
855	682079.513999	8735195.722254	130.6690125600	-11.43680906000
856	681906.447940	8734739.562248	130.6674507700	-11.44094173000
857	681906.743864	8734737.655996	130.6674535827	-11.44095894685
858	681906.743864	8734737.655996	130.6674535827	-11.44095894685
859	681905.830304	8734731.078849	130.6674455590	-11.44101845121
860	681895.295360	8734683.994309	130.6673515100	-11.44144464000
861	681904.814953	8734610.221591	130.6674426500	-11.44211104000
862	681902.122367	8734610.514799	130.6674179600	-11.44210853000
863	681899.930299	8734614.902513	130.6673976400	-11.44206898000
864	681900.241205	8734615.263554	130.6674004700	-11.44206570000
865	681912.989227	8734612.260694	130.6675174500	-11.44209218000
866	681908.938717	8734603.789509	130.6674807800	-11.44216897000
867	681907.105102	8734600.898513	130.6674641300	-11.44219520000
868	681898.141507	8734603.333050	130.6673818600	-11.44217366000
869	681896.970117	8734617.232690	130.6673703900	-11.44204807000
870	681905.955258	8734604.167363	130.6674534200	-11.44216571000
871	681901.677760	8734610.433295	130.6674138900	-11.44210929000
872	681905.691684	8734608.223140	130.6674507900	-11.44212906000
873	681901.072849	8734604.134717	130.6674086800	-11.44216626000
874	681903.822949	8734607.942999	130.6674336800	-11.44213169000
875	681907.160822	8734606.767735	130.6674643300	-11.44214214000
876	681904.172156	8734569.963730	130.6674388900	-11.44247500000
877	681906.168836	8734569.535158	130.6674572100	-11.44247877000
878	681902.120899	8734574.924754	130.6674198300	-11.44243026000
879	681897.093707	8734560.779934	130.6673745100	-11.44255839000
880	681894.715502	8734564.491723	130.6673525200	-11.44252496000
881	681898.051864	8734575.905123	130.6673824900	-11.44242161000
882	681897.918773	8734569.298507	130.6673816200	-11.44248134000
883	681904.135641	8734566.664120	130.6674387300	-11.44250483000
884	681913.343430	8734571.747071	130.6675228400	-11.44245840000
885	681906.706972	8734539.193509	130.6674637472	-11.44275302693
886	681909.503541	8734467.264097	130.6674931816	-11.44340311450
887	681907.764960	8734467.064457	130.6674772600	-11.44340501000
888	681907.957536	8734467.154053	130.6674790200	-11.44340419000
889	681909.227893	8734470.015116	130.6674905100	-11.44337826000
890	681910.810611	8734468.576752	130.6675050900	-11.44339118000
891	681773.566696	8735349.238001	130.6662008400	-11.43543726000
892	679751.745253	8711509.990535	130.6489319200	-11.65104675000
893	679759.283616	8711743.938656	130.6489885800	-11.64893150000

Number	Easting	Northing	Latitude	Longitude
894	690334.118199	8708114.948692	130.7461694300	-11.68116330776
895	694335.667491	8707108.266151	130.7829264999	-11.69003728771
896	694235.401340	8707076.291191	130.7820087706	-11.69033203003
897	694278.391552	8707046.415405	130.7824047779	-11.69059963269
898	694221.626825	8707061.877754	130.7818832725	-11.69046310062
899	694298.553927	8707134.621325	130.7825845935	-11.68980117421
900	694251.089382	8707067.218858	130.7821531762	-11.69041314251
901	694242.180222	8707102.192449	130.7820694448	-11.69009751753
902	694219.278588	8707124.096764	130.7818581390	-11.68990082534
903	694276.148459	8707145.749626	130.7823784614	-11.68970186048
904	694273.794114	8707151.693561	130.7823565251	-11.68964826635
905	695385.043197	8706322.423025	130.7925964005	-11.69708063781
906	695389.460727	8706322.187448	130.7926369298	-11.69708251386
907	695462.728973	8706222.759284	130.7933147018	-11.69797705412
908	695580.220857	8706146.565230	130.7943967263	-11.69865903720
909	695576.305758	8706161.048590	130.7943599748	-11.69852834522
910	704326.985662	8702993.715681	130.8748087666	-11.72664325223
911	704365.759074	8703069.094939	130.8751597999	-11.72595959082
912	704594.678211	8702561.305889	130.8772904932	-11.73053555661
913	704597.091573	8702564.889517	130.8773124100	-11.73050302000
914	704598.764301	8702588.982568	130.8773262800	-11.73028515000
915	704600.554369	8702590.436562	130.8773426100	-11.73027190000
916	704593.477410	8702592.541545	130.8772775700	-11.73025330000
917	704583.281354	8702587.300080	130.8771843700	-11.73030129000
918	704592.943137	8702730.958084	130.8772642100	-11.72900223000
919	704574.887904	8702552.505769	130.8771095100	-11.73061629000
920	704494.066218	8702624.456174	130.8763638000	-11.72997082000
921	704495.108887	8702653.816350	130.8763715700	-11.72970538000
922	704503.514759	8702642.690164	130.8764493500	-11.72980544000
923	704500.839086	8702643.479115	130.8764247600	-11.72979847000
924	704488.387794	8702650.752252	130.8763101100	-11.72973348000
925	704482.113534	8702707.908566	130.8762490700	-11.72921724000
926	704475.764052	8702552.733509	130.8762003100	-11.73062020000
927	704464.687098	8702562.223477	130.8760981300	-11.73053509000
928	704464.219412	8702564.356327	130.8760937100	-11.73051584000
929	704468.542643	8702568.672196	130.8761331000	-11.73047657000
930	704473.049186	8702560.241621	130.8761749500	-11.73055250000
931	704380.712490	8702603.102623	130.8753254000	-11.73017065000
932	704044.434584	8702895.871020	130.8722231400	-11.72754462000
933	704049.486476	8702896.801088	130.8722694200	-11.72753591000
934	704052.886122	8702895.357941	130.8723006900	-11.72754875000
935	704056.311121	8702864.257714	130.8723340000	-11.72782965000
936	704056.424684	8702862.315309	130.8723351600	-11.72784720000
937	704042.993495	8702910.838493	130.8722090100	-11.72740942000
938	703844.700686	8702968.485240	130.8703867300	-11.72690027000
939	704497.369352	8702604.928007	130.8763952900	-11.73014713000
940	683617.771680	8728912.593542	130.6834449700	-11.49352659000

Number	Easting	Northing	Latitude	Longitude
941	683616.585840	8728910.940047	130.6834341900	-11.49354160000
942	683602.363496	8728896.703294	130.6833046000	-11.49367105000
943	683598.945179	8728375.662976	130.6833012400	-11.49838132000
944	683592.390871	8728358.636792	130.6832420800	-11.49853558000
945	683589.644228	8728345.699023	130.6832176000	-11.49865268000
946	683590.246947	8728345.592613	130.6832231300	-11.49865361000
947	683593.114495	8728340.057980	130.6832497100	-11.49870349000
948	683609.056304	8728356.007018	130.6833949700	-11.49855847000
949	683611.409066	8728356.090582	130.6834165300	-11.49855759000
950	683609.919781	8728355.155700	130.6834029300	-11.49856612000
951	683611.036331	8728362.304203	130.6834127800	-11.49850144000
952	683607.398176	8728336.681077	130.6833808100	-11.49873326000
953	683595.674497	8728316.666299	130.6832744300	-11.49891481000
954	683596.055486	8728306.833072	130.6832784500	-11.49900368000
955	683597.815975	8728279.195970	130.6832960700	-11.49925342000
956	683514.258649	8728257.479093	130.6825313800	-11.49945416000
957	683515.984234	8728255.915853	130.6825472800	-11.49946820000
958	683517.514294	8728339.830395	130.6825568000	-11.49870955000
959	683521.216462	8728360.747278	130.6825896100	-11.49852027000
960	683522.296001	8728357.479816	130.6825996800	-11.49854975000
961	683518.573084	8728363.017237	130.6825652600	-11.49849989000
962	683511.853852	8728402.783209	130.6825015400	-11.49814077000
963	683501.521380	8728754.220531	130.6823879800	-11.49496440000
964	683500.317076	8728754.816090	130.6823769100	-11.49495908000
965	683506.495424	8728391.543293	130.6824530300	-11.49824266000
966	683529.003323	8728389.139915	130.6826594574	-11.49826319461
967	683506.495424	8728391.543293	130.6824530300	-11.49824266000
968	683492.965006	8728372.639753	130.6823300300	-11.49841426000
969	683485.486388	8728245.438204	130.6822683100	-11.49956453000
970	683488.247845	8728244.330195	130.6822936800	-11.49957440000
971	683492.140642	8728242.839445	130.6823294400	-11.49958767000
972	683496.004483	8728258.017411	130.6823640400	-11.49945026000
973	683496.395279	8728256.748499	130.6823676900	-11.49946171000
974	683500.290912	8728268.411812	130.6824027700	-11.49935607000
975	683503.880144	8728276.378821	130.6824352400	-11.49928386000
976	683501.168958	8728755.709355	130.6823846700	-11.49495096000
977	683498.748616	8728754.523272	130.6823625500	-11.49496181000
978	683498.748616	8728754.523272	130.6823625500	-11.49496181000
979	683498.748616	8728754.523272	130.6823625500	-11.49496181000
980	683498.748616	8728754.523272	130.6823625500	-11.49496181000
981	683498.748616	8728754.523272	130.6823625500	-11.49496181000
982	683501.168958	8728755.709355	130.6823846700	-11.49495096000
983	683501.168958	8728755.709355	130.6823846700	-11.49495096000
984	683501.168958	8728755.709355	130.6823846700	-11.49495096000
985	683501.168958	8728755.709355	130.6823846700	-11.49495096000
986	683501.168958	8728755.709355	130.6823846700	-11.49495096000
987	683501.168958	8728755.709355	130.6823846700	-11.49495096000

Number	Easting	Northing	Latitude	Longitude
988	683501.168958	8728755.709355	130.6823846700	-11.49495096000
989	683501.168958	8728755.709355	130.6823846700	-11.49495096000
990	683501.168958	8728755.709355	130.6823846700	-11.49495096000
991	683501.168958	8728755.709355	130.6823846700	-11.49495096000
992	683501.168958	8728755.709355	130.6823846700	-11.49495096000
993	684223.312441	8729625.158228	130.6889566500	-11.48705307000
994	684107.982636	8729658.960013	130.6878978100	-11.48675363000
995	684115.728603	8729676.313243	130.6879678700	-11.48659635000
996	684116.411058	8729676.774959	130.6879741000	-11.48659214000
997	684102.183946	8729669.443430	130.6878441000	-11.48665917000
998	682996.996391	8732620.142920	130.6775572587	-11.46004383136
999	683001.295042	8732605.764905	130.6775974200	-11.46017358000
1000	682997.851207	8732597.876608	130.6775662800	-11.46024507000
1001	683005.934374	8732611.327616	130.6776396400	-11.46012305000
1002	682996.499254	8732588.128758	130.6775544100	-11.46033326000
1003	682997.114252	8732589.555516	130.6775599700	-11.46032033000
1004	682996.987027	8732577.818200	130.6775594300	-11.46042644000
1005	682959.802488	8732365.824774	130.6772299600	-11.46234478000
1006	682962.434418	8732341.264742	130.6772553900	-11.46256666000
1007	682969.685890	8732341.563258	130.6773218300	-11.46256358000
1008	682964.265931	8732258.666220	130.6772765800	-11.46331324000
1009	682953.076214	8732108.328012	130.6771820500	-11.46467286000
1010	682922.755083	8731987.774282	130.6769106000	-11.46576424000
1011	682879.878220	8731968.674960	130.6765186700	-11.46593915000
1012	682890.966784	8731965.901319	130.6766204400	-11.46596364000
1013	682847.699329	8731929.543952	130.6762258500	-11.46629458000
1014	682848.430823	8731923.801757	130.6762328600	-11.46634645000
1015	682846.086434	8731921.262250	130.6762115100	-11.46636953000
1016	682862.660910	8731934.736877	130.6763626900	-11.46624685000
1017	682779.736573	8731824.070029	130.6756086200	-11.46725162000
1018	682779.587058	8731821.251156	130.6756074000	-11.46727711000
1019	682783.318725	8731831.933192	130.6756410300	-11.46718035000
1020	682803.631701	8731210.984736	130.6758603000	-11.47279255000
1021	682791.932027	8731232.449244	130.6757519300	-11.47259913000
1022	682786.335901	8731221.997095	130.6757012000	-11.47269391000
1023	682853.312963	8731162.610578	130.6763182000	-11.47322723000
1024	682853.727890	8731159.475359	130.6763221700	-11.47325555000
1025	683053.239462	8730939.631865	130.6781624000	-11.47523239000
1026	683056.401872	8730932.763735	130.6781917500	-11.47529431000
1027	683058.166333	8730932.409416	130.6782079400	-11.47529742000
1028	683057.861823	8730941.941254	130.6782046400	-11.47521127000
1029	683069.797715	8730933.536331	130.6783144800	-11.47528662000
1030	683070.881203	8730921.370474	130.6783250600	-11.47539654000
1031	683299.745805	8730848.948800	130.6804264500	-11.47603915000
1032	683565.708288	8730576.379075	130.6828785700	-11.47848908000
1033	683547.298862	8730459.144398	130.6827161300	-11.47954983000
1034	683492.290187	8730514.321200	130.6822090200	-11.47905395000

Number	Easting	Northing	Latitude	Longitude
1035	683481.813171	8730533.520036	130.6821119700	-11.47888095000
1036	683377.777511	8730665.511318	130.6811514200	-11.47769327000
1037	683346.323111	8730702.363953	130.6808611700	-11.47736179000
1038	683361.849027	8730700.943616	130.6810035400	-11.47737381000
1039	683360.164889	8730701.784222	130.6809880600	-11.47736630000
1040	683361.064061	8730701.986940	130.6809962900	-11.47736442000
1041	682954.208787	8732371.576458	130.6771783900	-11.46229308000
1042	682954.208787	8732371.576458	130.6771783900	-11.46229308000
1043	681987.064558	8734069.472751	130.6682250100	-11.44699505000
1044	681926.927344	8734112.940325	130.6676716100	-11.44660525000
1045	681929.252274	8734124.001152	130.6676923300	-11.44650514000
1046	681928.257516	8734119.733614	130.6676834400	-11.44654377000
1047	682517.409648	8733474.280489	130.6731167200	-11.45234775000
1048	682516.749347	8733472.942483	130.6731107400	-11.45235988000
1049	682550.410265	8733430.507609	130.6734214700	-11.45274172000
1050	682536.970718	8733457.552825	130.6732968700	-11.45249794000
1051	682611.332374	8733364.896411	130.6739832600	-11.45333164000
1052	682619.560587	8733356.151611	130.6740591300	-11.45341026000
1053	682684.509891	8733455.734287	130.6746490400	-11.45250664000
1054	682738.758639	8733380.273104	130.6751502000	-11.45318595000
1055	682739.192927	8733382.338096	130.6751540700	-11.45316726000
1056	682738.437489	8733384.537211	130.6751470300	-11.45314742000
1057	682734.072083	8733398.717675	130.6751062700	-11.45301946000
1058	682737.603061	8733398.877483	130.6751386200	-11.45301783000
1059	682990.234201	8732923.178208	130.6774791300	-11.45730480000
1060	682987.918862	8732918.329859	130.6774581700	-11.45734875000
1061	682992.306994	8732918.783324	130.6774983600	-11.45734442000
1062	682996.483588	8732686.887370	130.6775490000	-11.45944050000
1063	682986.886259	8732684.196479	130.6774611900	-11.45946533000
1064	682997.887873	8732643.369520	130.6775641900	-11.45983382000
1065	682989.552572	8732661.974790	130.6774868100	-11.45966607000
1066	682047.817453	8735643.571516	130.6686984000	-11.43276221000
1067	682043.646823	8735624.903990	130.6686611700	-11.43293118000
1068	682043.295251	8735622.605106	130.6686580700	-11.43295198000
1069	682048.375739	8735402.949069	130.6687162500	-11.43493738000
1070	682048.437739	8735398.757285	130.6687170400	-11.43497527000
1071	681878.299039	8734689.823712	130.6671954500	-11.44139283000
1072	681881.390269	8734696.203068	130.6672234400	-11.44133500000
1073	681878.467402	8734581.017172	130.6672027500	-11.44237642000
1074	681888.082684	8734598.842487	130.6672899199	-11.44221477927
1075	681874.405077	8734567.284924	130.6671662500	-11.44250077000
1076	681877.062137	8734451.990472	130.6671967000	-11.44354288000
1077	681789.022740	8735356.310446	130.6663421000	-11.43537252000
1078	679707.534108	8711637.597090	130.6485196700	-11.64989553000
1079	682201.054138	8710989.288652	130.6714218900	-11.65562416000
1080	659223.841946	8737564.843193	130.4594496500	-11.41650924000
1081	659124.242447	8737779.101690	130.4585270300	-11.41457671000

Number	Easting	Northing	Latitude	Longitude
1082	659388.467438	8737601.582244	130.4609565700	-11.41616958000
1083	659390.847365	8737598.545054	130.4609785200	-11.41619693000
1084	659390.836787	8737599.259646	130.4609783900	-11.41619047000
1085	659390.768141	8737599.279902	130.4609777600	-11.41619029000
1086	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1087	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1088	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1089	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1090	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1091	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1092	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1093	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1094	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1095	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1096	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1097	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1098	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1099	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1100	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1101	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1102	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1103	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1104	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1105	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1106	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1107	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1108	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1109	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1110	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1111	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1112	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1113	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1114	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1115	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1116	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1117	682620.751125	8731401.910284	130.6741740617	-11.47107623036
1118	682839.194877	8733222.822946	130.6760790000	-11.45460400000
1119	681971.554972	8734652.650817	130.6680520000	-11.44172400000
1120	682018.062080	8734712.781144	130.6684750000	-11.44117800000
1121	683510.143860	8728195.351233	130.6824970000	-11.50001600000
1122	683510.252959	8728195.350594	130.6824980000	-11.50001600000
1123	683510.363354	8728195.571192	130.6824990000	-11.50001400000
1124	683409.200124	8728396.389470	130.6815610000	-11.49820400000
1125	683401.064464	8728180.723981	130.6814980000	-11.50015400000
1126	683406.097265	8728183.128212	130.6815440000	-11.50013200000
1127	683401.754667	8728186.804158	130.6815040000	-11.50009900000
1128	683486.874738	8728097.033774	130.6822890000	-11.50090600000

Number	Easting	Northing	Latitude	Longitude
1129	683493.988834	8728100.863889	130.6823540000	-11.50087100000
1130	683515.962521	8728052.503932	130.6825580000	-11.50130700000
1131	683515.962521	8728052.503932	130.6825580000	-11.50130700000
1132	683553.515569	8728207.275607	130.6828938900	-11.49990591000
1133	683513.541382	8728179.525641	130.6825289900	-11.50015888000
1134	683438.357671	8728210.489818	130.6818382200	-11.49988295000
1135	683436.928651	8728224.880166	130.6818243500	-11.49975294000
1136	683416.075648	8728271.269925	130.6816307300	-11.49933469000
1137	683410.993268	8728245.483789	130.6815855300	-11.49956806000
1138	683412.420442	8728214.744613	130.6816002600	-11.49984586000
1139	681965.463887	8734653.070965	130.6679961600	-11.44172052000
1140	681966.356687	8734648.187425	130.6680046000	-11.44176462000
1141	682008.518525	8734783.506458	130.6683838000	-11.44053915000
1142	682008.817796	8734774.792866	130.6683870038	-11.44061790421
1143	682011.925606	8734777.685813	130.6684153300	-11.44059159000
1144	682012.335517	8734771.572745	130.6684194100	-11.44064683000
1145	682011.469725	8734764.887394	130.6684118300	-11.44070731000
1146	681999.195079	8734666.054363	130.6683045800	-11.44160139000
1147	682002.879326	8734660.234328	130.6683386500	-11.44165381000
1148	682002.809395	8734659.085381	130.6683380700	-11.44166420000
1149	681997.822242	8734450.370299	130.6683034200	-11.44355122000
1150	681995.811622	8734450.839888	130.6682849700	-11.44354708000
1151	682001.361114	8734449.990331	130.6683358700	-11.44355447000
1152	682002.438631	8734454.791690	130.6683454900	-11.44351101000
1153	682005.112202	8734462.351561	130.6683695900	-11.44344253000
1154	681992.096221	8734454.851454	130.6682507100	-11.44351101000
1155	683423.871813	8728247.537887	130.6817034600	-11.49954881000
1156	683438.214833	8728167.079213	130.6818392400	-11.50027538000
1157	683423.871813	8728247.537887	130.6817034600	-11.49954881000
1158	683423.871813	8728247.537887	130.6817034600	-11.49954881000
1159	683423.871813	8728247.537887	130.6817034600	-11.49954881000
1160	682029.299895	8734654.265216	130.6685810800	-11.44170639000
1161	682029.903512	8734655.614621	130.6685865400	-11.44169416000
1162	682030.084475	8734657.660063	130.6685880900	-11.44167566000
1163	682024.806473	8734539.320631	130.6685459900	-11.44274571000
1164	682017.372275	8734388.148085	130.6684858700	-11.44411268000
1165	682029.903512	8734655.614621	130.6685865400	-11.44169416000
1166	682029.903512	8734655.614621	130.6685865400	-11.44169416000
1167	683624.980799	8728292.466348	130.6835443400	-11.49913202000
1168	683532.129858	8728228.996528	130.6826967100	-11.49971069000
1169	683530.960989	8728238.805604	130.6826854700	-11.49962208000
1170	683532.089787	8728238.547881	130.6826958300	-11.49962435000
1171	683499.588641	8728230.379662	130.6823983744	-11.49969990946
1172	683492.727489	8728222.135286	130.6823359300	-11.49977480000
1173	683490.262189	8728223.885383	130.6823132400	-11.49975911000
1174	683517.205382	8728224.851529	130.6825601400	-11.49974895000
1175	683471.235878	8728208.632474	130.6821396700	-11.49989800000

Number	Easting	Northing	Latitude	Longitude
1176	683451.588808	8728238.296883	130.6819580000	-11.49963088000
1177	683387.837655	8728305.961446	130.6813700500	-11.49902258000
1178	683388.803582	8728309.752344	130.6813787000	-11.49898826000
1179	683391.746102	8728310.312572	130.6814056400	-11.49898304000
1180	683394.329941	8728237.091065	130.6814332500	-11.49964481000
1181	683391.511185	8728224.120527	130.6814081100	-11.49976221000
1182	683478.984508	8728064.439804	130.6822184300	-11.50120106000
1183	683563.299121	8728094.833891	130.6829896000	-11.50092184000
1184	683564.591647	8728096.638310	130.6830013500	-11.50090546000
1185	683526.365048	8728078.328593	130.6826519600	-11.50107300000
1186	681820.713410	8734620.335596	130.6666714200	-11.44202400000
1187	681818.595543	8734623.968440	130.6666518200	-11.44199127000
1188	681823.348723	8734601.613295	130.6666965600	-11.44219311000
1189	681823.276788	8734600.305066	130.6666959700	-11.44220494000
1190	681961.043946	8734720.633872	130.6679520800	-11.44110999000
1191	681986.932363	8734764.211663	130.6681870100	-11.44071470000
1192	681992.730611	8734715.931964	130.6682427000	-11.44115084000
1193	681988.705130	8734664.954555	130.6682085100	-11.44161188000
1194	681984.418136	8734669.953945	130.6681689600	-11.44156691000
1195	681997.507173	8734568.453322	130.6682942800	-11.44248378000
1196	681977.796299	8734444.027965	130.6681202400	-11.44360960000
1197	681981.501418	8734388.002501	130.6681571600	-11.44411587000
1198	704657.281852	8702483.573811	130.8778694600	-11.73123438000
1199	704656.267334	8702481.686491	130.8778602700	-11.73125150000
1200	704655.782851	8702481.624445	130.8778558300	-11.73125209000
1201	704655.953875	8702481.929766	130.8778573800	-11.73124932000
1202	704710.915638	8702593.481354	130.8783546800	-11.73023773000
1203	704712.779145	8702594.829749	130.8783716900	-11.73022543000
1204	704713.591592	8702596.005922	130.8783790700	-11.73021475000
1205	704721.691946	8702579.786920	130.8784543600	-11.73036086000
1206	704717.208962	8702526.992662	130.8784164700	-11.73083832000
1207	704716.314369	8702525.105650	130.8784083800	-11.73085543000
1208	704719.210163	8702526.100870	130.8784348800	-11.73084626000
1209	704720.079494	8702489.373957	130.8784451000	-11.73117817000
1210	704718.385753	8702490.103277	130.8784295200	-11.73117168000
1211	704717.638672	8702488.592549	130.8784227600	-11.73118538000
1212	704709.325737	8702521.160511	130.8783445200	-11.73089151000
1213	704711.674159	8702524.107678	130.8783658800	-11.73086473000
1214	704710.975298	8702541.601638	130.8783584000	-11.73070665000
1215	704710.786906	8702438.136331	130.8783630000	-11.73164185000
1216	704701.184960	8702422.743436	130.8782758700	-11.73178156000
1217	704713.870704	8702450.649693	130.8783905200	-11.73152856000
1218	704699.679319	8702450.701174	130.8782603500	-11.73152895000
1219	704701.295539	8702450.118411	130.8782752100	-11.73153412000
1220	704746.355373	8702488.204115	130.8786861800	-11.73118716000
1221	704749.526431	8702526.550349	130.8787129200	-11.73084037000
1222	704749.567231	8702545.092634	130.8787121600	-11.73067277000

Number	Easting	Northing	Latitude	Longitude
1223	704754.893024	8702515.165540	130.8787628400	-11.73094295000
1224	704750.714611	8702529.464316	130.8787236400	-11.73081396000
1225	704797.642097	8702609.538187	130.8791491700	-11.73008737000
1226	694455.618171	8706865.225889	130.7840406800	-11.69222733000
1227	704663.787075	8702493.017459	130.8779285500	-11.73114863000
1228	704663.561732	8702494.376462	130.8779264000	-11.73113636000
1229	704664.483036	8702496.836391	130.8779347000	-11.73111407000
1230	704663.311053	8702488.009940	130.8779244900	-11.73119392000
1231	704663.907280	8702487.008031	130.8779300200	-11.73120294000
1232	704663.852543	8702487.137840	130.8779295100	-11.73120177000
1233	704660.200150	8702496.450058	130.8778954400	-11.73111782000
1234	704658.988858	8702494.483285	130.8778844500	-11.73113567000
1235	704664.593036	8702505.159890	130.8779352000	-11.73103883000
1236	704664.209439	8702505.839538	130.8779316400	-11.73103271000
1237	704657.347765	8702621.362423	130.8778616400	-11.72998895000
1238	704696.634649	8702562.768939	130.8782255700	-11.73051619000
1239	704694.997454	8702562.005404	130.8782106000	-11.73052319000
1240	704703.338147	8702518.879296	130.8782897400	-11.73091249000
1241	704686.700671	8702487.111640	130.8781390800	-11.73120063000
1242	704686.103927	8702488.853706	130.8781335000	-11.73118492000
1243	704694.402869	8702522.863121	130.8782075400	-11.73087702000
1244	704698.626372	8702524.807597	130.8782461600	-11.73085919000
1245	704700.320157	8702517.216649	130.8782621600	-11.73092770000
1246	704687.177561	8702519.382830	130.8781414807	-11.73090891262
1247	704692.822735	8702433.855025	130.8781984900	-11.73168163000
1248	704698.538122	8702437.827462	130.8782506700	-11.73164538000
1249	704677.754692	8702446.971786	130.8780594800	-11.73156398000
1250	704678.228305	8702445.730614	130.8780639000	-11.73157517000
1251	704692.236186	8702439.983053	130.8781927352	-11.73162627614
1252	704768.649194	8702406.380761	130.8788956700	-11.73192539000
1253	704769.139233	8702407.275855	130.8789001100	-11.73191727000
1254	704767.647490	8702445.806977	130.8788840700	-11.73156909000
1255	704757.525186	8702526.490366	130.8787862900	-11.73084043000
1256	704757.613715	8702532.735165	130.8787867200	-11.73078398000
1257	704757.542937	8702533.075289	130.8787860500	-11.73078091000
1258	704756.601010	8702531.611222	130.8787775000	-11.73079420000
1259	704759.308266	8702539.810086	130.8788018300	-11.73071993000
1260	704773.192763	8702558.797732	130.8789280200	-11.73054747000
1261	704788.793234	8702561.589017	130.8790709400	-11.73052130000
1262	704784.341785	8702564.047164	130.8790299600	-11.73049935000
1263	704789.956465	8702552.652178	130.8790821562	-11.73060200696
1264	704769.568130	8702481.057114	130.8788995300	-11.73125036000
1265	704686.626542	8702517.674460	130.8781365311	-11.73092438722
1266	704708.782309	8702504.736937	130.8783405400	-11.73103999000
1267	705019.695922	8703107.151900	130.8811554183	-11.72557621591
1268	705024.496769	8703093.298765	130.8812003000	-11.72570114000
1269	705026.190584	8703094.209056	130.8812157800	-11.72569281000

Number	Easting	Northing	Latitude	Longitude
1270	705045.409085	8703043.626364	130.8813951500	-11.72614885000
1271	704320.078088	8703146.788466	130.8747360700	-11.72526009000
1272	704304.137779	8703151.495525	130.8745895774	-11.72521850270
1273	704306.900690	8703153.118171	130.8746148200	-11.72520367000
1274	704443.309191	8703165.499004	130.8758652100	-11.72508356000
1275	704335.444108	8703152.692465	130.8748766478	-11.72520580168
1276	704443.805514	8703168.157592	130.8758696000	-11.72505950000
1277	704332.811729	8703152.912626	130.8748524900	-11.72520397000
1278	704443.031255	8703169.442799	130.8758624200	-11.72504793000
1279	704450.824865	8703171.790611	130.8759337600	-11.72502624000
1280	704442.325291	8703154.288214	130.8758568700	-11.72518495000
1281	704456.516421	8703151.368125	130.8759872100	-11.72521049000
1282	704453.174555	8703151.830699	130.8759565300	-11.72520651000
1283	704441.881541	8703148.881088	130.8758531300	-11.72523385000
1284	704435.791954	8703140.952540	130.8757977600	-11.72530588000
1285	704473.501744	8703163.982579	130.8761422300	-11.72509545000
1286	704473.916771	8703164.582780	130.8761460000	-11.72509000000
1287	704475.424394	8703159.144963	130.8761601600	-11.72513906000
1288	704476.220354	8703174.550094	130.8761665200	-11.72499977000
1289	704471.469659	8703176.129509	130.8761228500	-11.72498578000
1290	704472.092308	8703176.145279	130.8761285600	-11.72498560000
1291	704473.399852	8703176.191893	130.8761405500	-11.72498510000
1292	704482.376662	8703182.344324	130.8762225100	-11.72492895000
1293	704488.805677	8703193.926006	130.8762807700	-11.72482388000
1294	704492.131527	8703198.426648	130.8763110000	-11.72478300000
1295	704483.376473	8703197.908519	130.8762307300	-11.72478821000
1296	704505.462623	8703204.211541	130.8764329200	-11.72472991000
1297	704518.934152	8703208.162263	130.8765562400	-11.72469339000
1298	704641.650256	8703257.508297	130.8776787800	-11.72423998000
1299	683672.624435	8729605.272615	130.6839105400	-11.48726202000
1300	683613.326996	8729524.457383	130.6833714000	-11.48799571000
1301	683613.346233	8729489.344702	130.6833734600	-11.48831312000
1302	683609.353602	8729477.907620	130.6833374800	-11.48841672000
1303	683610.627040	8729476.629118	130.6833492200	-11.48842821000
1304	683578.830442	8729440.932723	130.6830597100	-11.48875258000
1305	683602.030953	8729426.568717	130.6832731200	-11.48888120000
1306	683674.738208	8729436.132237	130.6839389900	-11.48879090000
1307	683738.795167	8729434.276957	130.6845261900	-11.48880428000
1308	683775.134763	8729450.530189	130.6848583800	-11.48865543000
1309	683777.815052	8729454.172763	130.6848827500	-11.48862236000
1310	683942.650850	8729268.781509	130.6864034800	-11.49028952000
1311	704323.068573	8703154.965557	130.8747630000	-11.72518600000
1312	704303.445348	8703155.206717	130.8745830000	-11.72518500000
1313	683668.074430	8729583.619525	130.6838700000	-11.48745800000
1314	683670.158418	8729585.487900	130.6838890000	-11.48744100000
1315	683669.827867	8729584.936725	130.6838860000	-11.48744600000
1316	683669.717468	8729584.716127	130.6838850000	-11.48744800000

Number	Easting	Northing	Latitude	Longitude
1317	683608.220677	8729535.628025	130.6833240000	-11.48789500000
1318	683673.003940	8729437.901284	130.6839230000	-11.48877500000
1319	683739.741154	8729468.927137	130.6845330000	-11.48849100000
1320	683745.953587	8729467.784525	130.6845900000	-11.48850100000
1321	683757.282878	8729464.731360	130.6846940000	-11.48852800000
1322	683804.787512	8729490.670507	130.6851280000	-11.48829100000



## 20 Appendix G: Typhonium mirabile record coordinates

Number	Easting	Northing	Latitude	Longitude
1	681887.123653	8734676.921935	130.6672770000	-11.44150900000
2	681894.798420	8734664.266841	130.6673480000	-11.44162300000
3	681893.071010	8734667.484821	130.6673320000	-11.44159400000
4	681895.478590	8734649.771581	130.6673550000	-11.44175400000
5	681895.299951	8734656.631106	130.6673530000	-11.44169200000
6	681884.662015	8734609.678666	130.6672580000	-11.44211700000
7	681890.018709	8734535.752995	130.6673110000	-11.44278500000
8	681777.257109	8735021.144289	130.6662520000	-11.43840300000
9	682386.282113	8733795.261410	130.6718980000	-11.44945300000
10	682384.561220	8733799.585606	130.6718820000	-11.44941400000
11	682429.602395	8733738.593567	130.6722980000	-11.44996300000
12	682428.968203	8733742.137121	130.6722920000	-11.44993100000
13	682844.930685	8730982.260966	130.6762510000	-11.47485800000
14	682931.597474	8730894.033304	130.6770500000	-11.47565100000
15	682940.580002	8730881.370108	130.6771330000	-11.47576500000
16	684228.929294	8729627.566681	130.6890080000	-11.48703100000
17	679817.834911	8711603.938685	130.6495330000	-11.65019400000
18	679229.317496	8711676.825583	130.6441320000	-11.64956600000
19	679219.720658	8711714.271148	130.6440420000	-11.64922800000
20	667876.245132	8726683.078562	130.5392710000	-11.51448000000
21	667979.366321	8726770.242539	130.5402120000	-11.51368700000
22	665014.974333	8730106.060166	130.5128770000	-11.48367200000
23	664918.348637	8730258.439460	130.5119840000	-11.48229900000
24	683851.446474	8728386.165376	130.6856150000	-11.49827300000
25	683865.921008	8728398.580786	130.6857470000	-11.49816000000
26	683864.607264	8728397.814137	130.6857350000	-11.49816700000
27	683865.041069	8728397.369103	130.6857390000	-11.49817100000
28	683842.481026	8728587.550586	130.6855220000	-11.49645300000
29	683851.147993	8728595.685804	130.6856010000	-11.49637900000
30	683848.202273	8728595.703081	130.6855740000	-11.49637900000
31	682033.234407	8735676.975834	130.6685630000	-11.43246100000
32	681858.441348	8734812.266200	130.6670070000	-11.44028700000
33	681873.495127	8734697.907965	130.6671510000	-11.44132000000
34	681861.580806	8734618.882845	130.6670460000	-11.44203500000
35	681855.604159	8734642.147728	130.6669900000	-11.44182500000
36	681857.599367	8734590.808136	130.6670110000	-11.44228900000
37	681853.721304	8734561.737243	130.6669770000	-11.44255200000
38	681855.458291	8734560.178522	130.6669930000	-11.44256600000
39	681801.659881	8734768.124356	130.6664890000	-11.44068900000
40	681802.204848	8734768.010590	130.6664940000	-11.44069000000
41	681801.662434	8734768.566824	130.6664890000	-11.44068500000
42	681805.992850	8734781.484468	130.6665280000	-11.44056800000
43	679652.379211	8711634.989432	130.6480140000	-11.64992200000
44	679386.165308	8711684.433934	130.6455700000	-11.64948900000
45	683637.708391	8728571.715074	130.6836460000	-11.49660700000
46	683624.370940	8728902.442921	130.6835060000	-11.49361800000
47	683623.283810	8728903.113021	130.6834960000	-11.49361200000

Number	Easting	Northing	Latitude	Longitude
48	683623.285106	8728903.334258	130.6834960000	-11.4936100000
49	683597.772799	8728906.470457	130.6832620000	-11.4935830000
50	683598.209854	8728906.578520	130.6832660000	-11.4935820000
51	683594.351135	8728899.742541	130.6832310000	-11.4936440000
52	683591.632603	8728398.308140	130.6832330000	-11.4981770000
53	683581.615335	8728364.516428	130.6831430000	-11.4984830000
54	683580.029621	8728354.569720	130.6831290000	-11.4985730000
55	683581.994065	8728354.668835	130.6831470000	-11.4985720000
56	683582.978555	8728355.105557	130.6831560000	-11.4985680000
57	683583.028688	8728345.038644	130.6831570000	-11.4986590000
58	683581.724028	8728345.820641	130.6831450000	-11.4986520000
59	683580.633030	8728345.827032	130.6831350000	-11.4986520000
60	683582.644367	8728335.306142	130.6831540000	-11.4987470000
61	683582.749579	8728334.641792	130.6831550000	-11.4987530000
62	683582.856086	8728334.198680	130.6831560000	-11.4987570000
63	683585.784282	8728331.194727	130.6831830000	-11.4987840000
64	683587.553379	8728372.446442	130.6831970000	-11.4984110000
65	683576.355534	8728286.116105	130.6830990000	-11.4991920000
66	683532.135896	8728280.512132	130.6826940000	-11.4992450000
67	683531.157239	8728281.070974	130.6826850000	-11.4992400000
68	683539.009811	8728280.582496	130.6827570000	-11.4992440000
69	683538.256739	8728263.772336	130.6827510000	-11.4993960000
70	683530.804938	8728258.174248	130.6826830000	-11.4994470000
71	683530.599696	8728260.387893	130.6826810000	-11.4994270000
72	683540.883155	8728339.643765	130.6827710000	-11.4987100000
73	683541.188164	8728354.465349	130.6827730000	-11.4985760000
74	683536.601172	8728372.302381	130.6827300000	-11.4984150000
75	683535.947221	8728372.416833	130.6827240000	-11.4984140000
76	683535.709965	8728387.794703	130.6827210000	-11.4982750000
77	683529.610462	8728408.184899	130.6826640000	-11.4980910000
78	683537.229144	8728460.907056	130.6827310000	-11.4976140000
79	683537.668136	8728461.346974	130.6827350000	-11.4976100000
80	683538.214932	8728461.565017	130.6827400000	-11.4976080000
81	683537.515359	8728472.520707	130.6827330000	-11.4975090000
82	683547.517593	8728466.488538	130.6828250000	-11.4975630000
83	683539.121044	8728448.616918	130.6827490000	-11.4977250000
84	683538.725177	8728474.172955	130.6827440000	-11.4974940000
85	683478.941780	8728381.932252	130.6822010000	-11.4983310000
86	683485.995528	8728263.635885	130.6822720000	-11.4994000000
87	683485.223053	8728243.507177	130.6822660000	-11.4995820000
88	683851.110155	8728391.511513	130.6856116300	-11.4982246900
89	683849.715150	8728388.609223	130.6855990000	-11.4982510000
90	683848.945634	8728387.994252	130.6855919800	-11.4982566000
91	683847.153322	8728393.433003	130.6855752600	-11.4982075300
92	683846.681752	8728394.507700	130.6855708800	-11.4981978400
93	683844.820842	8728393.459960	130.6855538800	-11.4982074100
94	683858.227215	8728410.147237	130.6856758600	-11.4980558500

Number	Easting	Northing	Latitude	Longitude
95	683866.445853	8728426.114925	130.6857503300	-11.49791107000
96	683859.220600	8728406.896464	130.6856851397	-11.49808518355
97	683862.583179	8728396.290573	130.6857165300	-11.49818088000
98	683860.306896	8728393.955430	130.6856957921	-11.49820210986
99	683800.614744	8728502.209846	130.6851428600	-11.49722668000
100	683837.613508	8728601.068417	130.6854766600	-11.49633106000
101	683837.073587	8728602.581578	130.6854716300	-11.49631741000
102	682786.320569	8731042.734918	130.6757106200	-11.47431441000
103	682782.670592	8731042.331372	130.6756771900	-11.47431825000
104	682815.787692	8731086.826434	130.6759783300	-11.47391428000
105	681842.347106	8735019.975570	130.6668485300	-11.43841017000
106	681839.684437	8734840.726585	130.6668336100	-11.44003070000
107	681839.862884	8734835.531908	130.6668355200	-11.44007765000
108	681839.931541	8734835.516025	130.6668361500	-11.44007779000
109	681841.875290	8734840.850004	130.6668536800	-11.44002947000
110	681845.690845	8734838.486138	130.6668887700	-11.44005064000
111	681845.855701	8734838.499567	130.6668902800	-11.44005051000
112	681822.730429	8734853.336756	130.6666775800	-11.43991759000
113	681822.709338	8734852.896607	130.6666774100	-11.43992157000
114	681828.319897	8734844.652843	130.6667292600	-11.43999580000
115	681840.285786	8734817.294730	130.6668403600	-11.44024249000
116	681849.386110	8734820.387153	130.6669235900	-11.44021406000
117	681851.468214	8734821.710328	130.6669426000	-11.44020199000
118	681851.584765	8734820.539287	130.6669437300	-11.44021257000
119	681844.937110	8734822.282325	130.6668827200	-11.44019716000
120	681845.316187	8734833.886474	130.6668855800	-11.44009224000
121	681839.974065	8734782.950976	130.6668393200	-11.44055297000
122	681847.619548	8734710.959055	130.6669131900	-11.44120337000
123	681853.265495	8734699.967256	130.6669655100	-11.44130244000
124	681878.103307	8734684.978060	130.6671939127	-11.44143664436
125	682014.230433	8735257.167637	130.6684110700	-11.43625701000
126	681861.478487	8734702.824108	130.6670406214	-11.44127618577
127	681852.016127	8734723.804409	130.6669528000	-11.44108702000
128	681843.455176	8734693.158759	130.6668759700	-11.44136450000
129	681842.703317	8734683.708337	130.6668695800	-11.44144997000
130	681842.865579	8734684.784847	130.6668710100	-11.44144023000
131	681857.389722	8734622.918154	130.6670073800	-11.44199874000
132	681857.811996	8734640.300888	130.6670103300	-11.44184158000
133	681833.729343	8734622.343453	130.6667905900	-11.44200517000
134	681835.381022	8734620.750934	130.6668058100	-11.44201948000
135	681833.563295	8734498.498851	130.6667956200	-11.44312472000
136	681853.789836	8734487.800082	130.6669815400	-11.44322038000
137	681855.208762	8734453.269333	130.6669963700	-11.44353246000
138	681821.620869	8734613.640010	130.6666800900	-11.44208448000
139	681815.390099	8734625.400676	130.6666223700	-11.44197849000
140	681819.591512	8734627.124234	130.6666607800	-11.44196269000
141	681829.794925	8734631.333089	130.6667540600	-11.44192411000

Number	Easting	Northing	Latitude	Longitude
142	681825.932663	8734630.894095	130.6667186900	-11.44192828000
143	681825.225266	8734630.468969	130.6667122300	-11.44193216000
144	681818.493207	8734628.358465	130.6666506500	-11.44195159000
145	681817.937803	8734626.663641	130.6666456500	-11.44196694000
146	681816.571934	8734625.592972	130.6666331900	-11.44197669000
147	681819.228034	8734625.784502	130.6666575200	-11.44197482000
148	681819.011537	8734626.655231	130.6666554900	-11.44196696000
149	681818.754459	8734638.455532	130.6666525100	-11.44186030000
150	681822.991130	8734632.107991	130.6666916700	-11.44191746000
151	681810.266938	8734765.354518	130.6665680200	-11.44071359000
152	681808.999593	8734787.785777	130.6665552200	-11.44051088000
153	681827.119047	8734808.646061	130.6667201600	-11.44032136000
154	681816.324922	8734804.197241	130.6666214800	-11.44036214000
155	681817.549497	8734792.885833	130.6666333000	-11.44046433000
156	681822.212002	8734788.845601	130.6666762400	-11.44050061000
157	681832.358803	8734794.959679	130.6667689000	-11.44044481000
158	681816.694152	8734817.311420	130.6666241700	-11.44024357000
159	681816.696944	8734810.420833	130.6666245600	-11.44030586000
160	681821.850419	8734818.086981	130.6666713800	-11.44023629000
161	681822.087646	8734873.373894	130.6666706300	-11.43973649000
162	681826.807655	8735059.508197	130.6667040400	-11.43805361000
163	681830.157408	8735052.061787	130.6667351300	-11.43812075000
164	681671.080751	8734943.864338	130.6652831096	-11.43910713839
165	681844.574055	8735018.787925	130.6668690000	-11.43842079000
166	681679.772601	8734948.212322	130.6653625300	-11.43906738000
167	681841.731881	8735020.017837	130.6668428900	-11.43840982000
168	664989.587702	8730102.121346	130.5126444987	-11.48370881576
169	664836.999169	8730049.737882	130.5112484100	-11.48418964000
170	664832.879609	8730277.625126	130.5111996800	-11.48212961000
171	679884.351670	8711674.614814	130.6501392348	-11.64955160199
172	679865.666437	8711644.592648	130.6499694800	-11.64982398000
173	679859.341168	8711582.783189	130.6499147700	-11.65038306000
174	679858.433113	8711582.642451	130.6499064500	-11.65038438000
175	679803.330470	8711608.703423	130.6493997300	-11.65015169000
176	679222.246768	8711697.454264	130.6440660600	-11.64937989000
177	679222.280233	8711698.712938	130.6440663000	-11.64936851000
178	683778.294637	8728796.882479	130.6849224500	-11.49456409000
179	683777.191484	8728797.796048	130.6849122900	-11.49455589000
180	683627.002779	8728916.079390	130.6835293900	-11.49349459000
181	683561.414154	8728890.010369	130.6829296400	-11.49373372000
182	683560.159671	8728412.686419	130.6829437600	-11.49804869000
183	683573.652804	8728436.018362	130.6830661800	-11.49783706000
184	683568.487413	8728407.446145	130.6830203700	-11.49809562000
185	683574.211258	8728362.600679	130.6830752400	-11.49850071000
186	683575.094699	8728362.674046	130.6830833333	-11.49850000000
187	683573.592554	8728365.379814	130.6830694200	-11.49847562000
188	683577.238434	8728361.965676	130.6831030200	-11.49850629000

Number	Easting	Northing	Latitude	Longitude
189	683575.906797	8728357.769833	130.6830910400	-11.49854429000
190	683577.999684	8728355.024099	130.6831103700	-11.49856900000
191	683577.245773	8728355.954423	130.6831034100	-11.49856063000
192	683576.416847	8728354.136225	130.6830959100	-11.49857711000
193	683577.620872	8728347.721935	130.6831072900	-11.49863503000
194	683577.501847	8728363.350229	130.6831053600	-11.49849376000
195	683570.282346	8728351.967457	130.6830398000	-11.49859704000
196	683570.785446	8728352.362750	130.6830443900	-11.49859344000
197	683571.315417	8728334.248582	130.6830502200	-11.49875716000
198	683573.561934	8728336.869337	130.6830706700	-11.49873335000
199	683572.648277	8728333.810454	130.6830624600	-11.49876105000
200	683571.525907	8728332.372303	130.6830522500	-11.49877411000
201	683573.357242	8728328.932288	130.6830692200	-11.49880511000
202	683573.155888	8728328.456685	130.6830674000	-11.49880942000
203	683571.693259	8728328.346887	130.6830540000	-11.49881049000
204	683574.142618	8728322.384385	130.6830767700	-11.49886426000
205	683574.614185	8728324.101798	130.6830810000	-11.49884871000
206	683559.251868	8728343.937840	130.6829391300	-11.49867021000
207	683560.567138	8728344.780821	130.6829511400	-11.49866252000
208	683569.090191	8728338.801550	130.6830295800	-11.49871612000
209	683572.392862	8728335.653810	130.6830600200	-11.49874440000
210	683569.345951	8728325.096176	130.6830326600	-11.49884000000
211	683565.008821	8728290.590865	130.6829947600	-11.49915215000
212	683565.005416	8728263.933150	130.6829961600	-11.49939313000
213	683563.801000	8728284.658990	130.6829840080	-11.49920583678
214	683561.211358	8728291.594327	130.6829599000	-11.49914328000
215	683572.715420	8728287.346529	130.6830655700	-11.49918107000
216	683549.505407	8728288.755740	130.6828527600	-11.49916956000
217	683546.545678	8728290.846134	130.6828255200	-11.49915082000
218	683553.906429	8728304.181669	130.6828922700	-11.49902988000
219	683561.543965	8728285.047970	130.6829633000	-11.49920244000
220	683553.744743	8728272.292454	130.6828925000	-11.49931816000
221	683545.513843	8728267.236555	130.6828173300	-11.49936430000
222	683552.169903	8728288.788807	130.6828771800	-11.49916912000
223	683540.956542	8728368.568820	130.6827701200	-11.49844852000
224	683538.120439	8728370.905176	130.6827440000	-11.49842755000
225	683538.974425	8728368.619145	130.6827519500	-11.49844817000
226	683538.007112	8728367.761957	130.6827431300	-11.49845597000
227	683542.831407	8728372.747101	130.6827870800	-11.49841065000
228	683554.092552	8728362.036815	130.6828908701	-11.49850687243
229	683546.549203	8728361.305802	130.6828217700	-11.49851388000
230	683563.974847	8728386.948842	130.6829801100	-11.49828115000
231	683541.771070	8728434.066753	130.6827740700	-11.49785639000
232	683553.048775	8728439.781823	130.6828771300	-11.49780413000
233	683456.843765	8728370.158672	130.6819990900	-11.49843860000
234	683460.647219	8728369.354896	130.6820339941	-11.49844566470
235	683458.491305	8728370.730900	130.6820141600	-11.49843334000

Number	Easting	Northing	Latitude	Longitude
236	683464.103179	8728369.729000	130.6820656500	-11.49844210000
237	683469.093903	8728358.632663	130.6821119884	-11.49854214437
238	683472.027396	8728363.211216	130.6821386300	-11.49850060000
239	683474.471342	8728258.172251	130.6821666667	-11.49945000000
240	683569.345951	8728325.096176	130.6830326600	-11.49884000000
241	683569.345951	8728325.096176	130.6830326600	-11.49884000000
242	683474.471342	8728258.172251	130.6821666667	-11.49945000000
243	683474.471342	8728258.172251	130.6821666667	-11.49945000000
244	683474.471342	8728258.172251	130.6821666667	-11.49945000000
245	683474.471342	8728258.172251	130.6821666667	-11.49945000000
246	683472.027396	8728363.211216	130.6821386300	-11.49850060000
247	683472.027396	8728363.211216	130.6821386300	-11.49850060000
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249	683472.027396	8728363.211216	130.6821386300	-11.49850060000
250	683472.027396	8728363.211216	130.6821386300	-11.49850060000
251	683472.027396	8728363.211216	130.6821386300	-11.49850060000
252	683472.027396	8728363.211216	130.6821386300	-11.49850060000
253	683472.027396	8728363.211216	130.6821386300	-11.49850060000
254	683458.491305	8728370.730900	130.6820141600	-11.49843334000
255	683458.491305	8728370.730900	130.6820141600	-11.49843334000
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257	683458.491305	8728370.730900	130.6820141600	-11.49843334000
258	683460.647219	8728369.354896	130.6820339941	-11.49844566470
259	683456.843765	8728370.158672	130.6819990900	-11.49843860000
260	683456.843765	8728370.158672	130.6819990900	-11.49843860000
261	683553.048775	8728439.781823	130.6828771300	-11.49780413000
262	683541.771070	8728434.066753	130.6827740700	-11.49785639000
263	683554.092552	8728362.036815	130.6828908701	-11.49850687243
264	683554.092552	8728362.036815	130.6828908701	-11.49850687243
265	683474.471342	8728258.172251	130.6821666667	-11.49945000000
266	683538.120439	8728370.905176	130.6827440000	-11.49842755000
267	683538.120439	8728370.905176	130.6827440000	-11.49842755000
268	683560.567138	8728344.780821	130.6829511400	-11.49866252000
269	683560.567138	8728344.780821	130.6829511400	-11.49866252000
270	683561.414154	8728890.010369	130.6829296400	-11.49373372000
271	683561.414154	8728890.010369	130.6829296400	-11.49373372000
272	683561.414154	8728890.010369	130.6829296400	-11.49373372000
273	683577.501847	8728363.350229	130.6831053600	-11.49849376000
274	683577.501847	8728363.350229	130.6831053600	-11.49849376000
275	683577.501847	8728363.350229	130.6831053600	-11.49849376000
276	683577.501847	8728363.350229	130.6831053600	-11.49849376000
277	683577.501847	8728363.350229	130.6831053600	-11.49849376000
278	683577.501847	8728363.350229	130.6831053600	-11.49849376000
279	683571.525907	8728332.372303	130.6830522500	-11.49877411000
280	683571.525907	8728332.372303	130.6830522500	-11.49877411000
281	683571.525907	8728332.372303	130.6830522500	-11.49877411000
282	683571.525907	8728332.372303	130.6830522500	-11.49877411000

Number	Easting	Northing	Latitude	Longitude
283	683571.525907	8728332.372303	130.6830522500	-11.49877411000
284	683571.525907	8728332.372303	130.6830522500	-11.49877411000
285	683575.094699	8728362.674046	130.6830833333	-11.49850000000
286	683575.094699	8728362.674046	130.6830833333	-11.49850000000
287	683575.094699	8728362.674046	130.6830833333	-11.49850000000
288	683575.094699	8728362.674046	130.6830833333	-11.49850000000
289	683568.487413	8728407.446145	130.6830203700	-11.49809562000
290	683568.487413	8728407.446145	130.6830203700	-11.49809562000
291	682082.952635	8735281.672541	130.6690395200	-11.43603190000
292	681897.266140	8734667.740468	130.6673704300	-11.44159147000
293	681892.997976	8734682.995394	130.6673305100	-11.44145379000
294	681905.727501	8734672.249187	130.6674477300	-11.44155027000
295	681910.146053	8734653.936935	130.6674891900	-11.44171558000
296	681905.719050	8734650.188116	130.6674488200	-11.44174970000
297	681909.627470	8734645.769472	130.6674848700	-11.44178944000
298	681894.365061	8734626.069747	130.6673460500	-11.44196832000
299	681895.214150	8734629.866883	130.6673536300	-11.44193395000
300	681906.798874	8734604.937943	130.6674611100	-11.44215870000
301	681896.337932	8734607.344622	130.6673651200	-11.44213749000
302	681892.446965	8734624.611778	130.6673285500	-11.44198160000
303	681905.208903	8734569.975442	130.6674483900	-11.44247484000
304	681905.281908	8734572.413105	130.6674489300	-11.44245280000
305	681910.638779	8734518.687460	130.6675008631	-11.44293819397
306	681899.101946	8734510.956863	130.6673955500	-11.44300868000
307	681898.400474	8734508.912215	130.6673892300	-11.44302720000
308	681902.383653	8734518.764337	130.6674252100	-11.44293793000
309	681754.531995	8735022.116662	130.6660437014	-11.43839539490
310	681756.459629	8735024.495495	130.6660612400	-11.43837379000
311	679745.119544	8711515.005911	130.6488708900	-11.65100176000
312	679759.069068	8711744.172209	130.6489866000	-11.64892940000
313	683605.700166	8728743.972061	130.6833433800	-11.49505153000
314	683623.405583	8728518.393784	130.6835177700	-11.49708977000
315	683619.449175	8728599.921183	130.6834771300	-11.49635299000
316	683624.040722	8728601.857830	130.6835191100	-11.49633524000
317	683628.820862	8728577.693171	130.6835642200	-11.49655343000
318	683626.354454	8728904.301926	130.6835240800	-11.49360109000
319	683624.144275	8728902.862400	130.6835039000	-11.49361422000
320	683605.704296	8728857.762428	130.6833373100	-11.49402289000
321	683606.397663	8728742.349574	130.6833498600	-11.49506616000
322	683604.841491	8728742.850957	130.6833355700	-11.49506171000
323	683605.476951	8728743.862747	130.6833413400	-11.49505253000
324	683604.576364	8728745.458768	130.6833330000	-11.49503815000
325	683609.799146	8728760.722802	130.6833800500	-11.49489989000
326	683610.095017	8728754.795039	130.6833830800	-11.49495346000
327	683596.153877	8728391.792557	130.6832747900	-11.49823566000
328	683601.314287	8728408.521590	130.6833211900	-11.49808416000
329	683601.542985	8728375.485143	130.6833250600	-11.49838279000

Number	Easting	Northing	Latitude	Longitude
330	683602.939421	8728362.060702	130.6833385800	-11.49850407000
331	683602.017670	8728362.649081	130.6833301000	-11.49849880000
332	683599.197276	8728361.706509	130.6833043000	-11.49850747000
333	683590.097159	8728342.186327	130.6832219400	-11.49868441000
334	683589.326067	8728345.584733	130.6832146900	-11.49865373000
335	683588.680381	8728345.433644	130.6832087800	-11.49865513000
336	683590.746244	8728344.779934	130.6832277500	-11.49866093000
337	683593.322663	8728343.000417	130.6832514600	-11.49867688000
338	683593.796220	8728343.567347	130.6832557700	-11.49867173000
339	683593.956883	8728340.449072	130.6832574100	-11.49869991000
340	683609.089352	8728355.502388	130.6833953000	-11.49856303000
341	683608.910024	8728355.620698	130.6833936500	-11.49856197000
342	683609.395276	8728355.204128	130.6833981200	-11.49856571000
343	683612.225883	8728357.890045	130.6834239200	-11.49854128000
344	683609.464811	8728359.810029	130.6833985100	-11.49852407000
345	683609.994128	8728361.886625	130.6834032500	-11.49850527000
346	683610.891094	8728363.213262	130.6834114000	-11.49849323000
347	683611.957401	8728361.599674	130.6834212600	-11.49850776000
348	683609.744404	8728369.543145	130.6834005500	-11.49843607000
349	683613.435494	8728367.700679	130.6834344800	-11.49845253000
350	683609.141504	8728372.784589	130.6833948500	-11.49840680000
351	683604.633044	8728373.292208	130.6833535000	-11.49840245000
352	683592.849858	8728366.773684	130.6832458500	-11.49846200000
353	683605.880796	8728313.259078	130.6833681600	-11.49894507000
354	683594.509589	8728323.238551	130.6832634000	-11.49885546000
355	683596.680011	8728324.230286	130.6832832400	-11.49884638000
356	683594.426790	8728318.044218	130.6832629200	-11.49890242000
357	683594.016365	8728318.197069	130.6832591500	-11.49890106000
358	683599.354396	8728317.197852	130.6833081300	-11.49890981000
359	683598.932172	8728316.267781	130.6833043100	-11.49891824000
360	683590.658575	8728280.647228	130.6832303900	-11.49924068000
361	683587.953286	8728290.412211	130.6832050700	-11.49915255000
362	683515.199904	8728273.449634	130.6825391500	-11.49930974000
363	683513.499951	8728260.759058	130.6825242500	-11.49942455000
364	683513.476232	8728261.366513	130.6825240000	-11.49941906000
365	683514.369289	8728283.452529	130.6825310000	-11.49921936000
366	683528.504120	8728351.726508	130.6826568900	-11.49860143000
367	683523.455084	8728376.553138	130.6826092800	-11.49837727000
368	683515.866712	8728388.067984	130.6825391100	-11.49827358000
369	683515.790429	8728389.201202	130.6825383500	-11.49826334000
370	683521.110589	8728422.040317	130.6825853500	-11.49796620000
371	683530.104113	8728482.054379	130.6826645600	-11.49742321000
372	683523.989210	8728741.337600	130.6825946000	-11.49507967000
373	683505.058697	8728406.851854	130.6824390400	-11.49810435000
374	683494.450582	8728432.015233	130.6823404600	-11.49787744000
375	683492.772213	8728357.786540	130.6823290600	-11.49854854000
376	683500.176319	8728378.901887	130.6823957900	-11.49835727000

Number	Easting	Northing	Latitude	Longitude
377	683503.029150	8728375.881793	130.6824221000	-11.49838442000
378	683499.816070	8728266.693312	130.6823985100	-11.49937163000
379	683499.737216	8728266.083140	130.6823978200	-11.49937715000
380	683498.277551	8728266.478864	130.6823844200	-11.49937365000
381	683492.313231	8728265.048044	130.6823298300	-11.49938690000
382	683491.017614	8728246.691247	130.6823189400	-11.49955291000
383	683600.231364	8728899.275576	130.6832849200	-11.49364791000
384	684112.631939	8729849.952117	130.6879301500	-11.48502686000
385	684225.247757	8729622.511837	130.6889745300	-11.48707689000
386	681867.412757	8734735.941341	130.6670932500	-11.44097650000
387	681872.156532	8734736.151789	130.6671367100	-11.44097435000
388	681793.091392	8735088.318117	130.6663935500	-11.43779493000
389	681871.554314	8734735.232688	130.6671312400	-11.44098269000
390	681869.183176	8734739.415677	130.6671092900	-11.44094500000
391	681880.206504	8734661.468317	130.6672144300	-11.44164906000
392	681881.445610	8734697.849893	130.6672238600	-11.44132011000
393	681889.356379	8734693.559695	130.6672965800	-11.44135848000
394	681887.848530	8734679.807166	130.6672834900	-11.44148288000
395	681886.227817	8734681.093089	130.6672685700	-11.44147134000
396	681886.558702	8734680.516894	130.6672716327	-11.44147653146
397	681867.636505	8734676.597496	130.6670984400	-11.44151295000
398	681877.304179	8734664.559228	130.6671876700	-11.44162127000
399	681879.489305	8734661.424891	130.6672078600	-11.44164949000
400	681880.108160	8734661.256493	130.6672135400	-11.44165098000
401	681878.837229	8734660.186384	130.6672019500	-11.44166072000
402	681882.395113	8734654.401388	130.6672348600	-11.44171283000
403	681869.707287	8734668.400704	130.6671178500	-11.44158694000
404	681871.272615	8734620.855674	130.6671347100	-11.44201666000
405	681876.218860	8734617.391231	130.6671802200	-11.44204772000
406	681876.081655	8734619.898692	130.6671788300	-11.44202506000
407	681872.463472	8734614.294513	130.6671459700	-11.44207591000
408	681874.981845	8734624.651783	130.6671685000	-11.44198215000
409	681874.295985	8734621.909027	130.6671623600	-11.44200698000
410	681880.094573	8734572.535324	130.6672181100	-11.44245301000
411	681876.558043	8734568.409675	130.6671859200	-11.44249049000
412	681873.930655	8734546.542934	130.6671630000	-11.44268830000
413	681868.312284	8734552.097568	130.6671112200	-11.44263838000
414	681868.568834	8734523.579136	130.6671150800	-11.44289617000
415	681869.857177	8734452.829655	130.6671306300	-11.44353567000
416	681870.226516	8734457.829798	130.6671337500	-11.44349045000
417	665005.765481	8730112.340514	130.5127922900	-11.48361566000
418	679715.660650	8711628.329567	130.6485946900	-11.64997888000
419	679675.129338	8711785.966034	130.6482145900	-11.64855600000
420	679677.783711	8711762.549770	130.6482401800	-11.64876754000
421	679673.712722	8711747.653919	130.6482036400	-11.64890241000
422	679673.203469	8711730.571408	130.6481998800	-11.64905686000
423	679672.610915	8711506.236923	130.6482064000	-11.65108484000

Number	Easting	Northing	Latitude	Longitude
424	679674.993242	8711509.383532	130.6482280800	-11.65105627000
425	660119.647584	8736376.700732	130.4677140000	-11.42721000000
426	660120.510411	8736374.705369	130.4677220000	-11.42722800000
427	660117.641372	8736368.415155	130.4676960000	-11.42728500000
428	660008.212971	8736092.445204	130.4667060000	-11.42978500000
429	659125.183858	8737539.186126	130.4585467368	-11.41674569733
430	659115.005778	8737779.451303	130.4584423700	-11.41457397000
431	659254.503672	8737779.095415	130.4597207300	-11.41457083000
432	660128.232164	8736370.496167	130.4677929600	-11.42726570000
433	660123.021046	8736374.664972	130.4677450100	-11.42722825000
434	660128.031752	8736378.091677	130.4677907700	-11.42719704000
435	681808.332475	8734619.632713	130.6665580000	-11.44203100000
436	681805.174999	8734620.867766	130.6665290000	-11.44202000000
437	681855.778153	8734464.379016	130.6670010000	-11.44343200000
438	682006.472285	8734444.481739	130.6683830000	-11.44360400000
439	682007.340772	8734443.702374	130.6683910000	-11.44361100000
440	682008.865258	8734443.140459	130.6684050000	-11.44361600000
441	683543.237196	8728201.352257	130.6828000000	-11.49996000000
442	683543.673593	8728201.349701	130.6828040000	-11.49996000000
443	683543.134576	8728202.459080	130.6827990000	-11.49995000000
444	683545.993185	8728206.203491	130.6828250000	-11.49991600000
445	683544.943011	8728213.178839	130.6828150000	-11.49985300000
446	683545.533214	8728220.808313	130.6828200000	-11.49978400000
447	683543.233454	8728237.968221	130.6827980000	-11.49962900000
448	683539.719599	8728234.117025	130.6827660000	-11.49966400000
449	683537.143583	8728222.738029	130.6827430000	-11.49976700000
450	683540.083433	8728221.725210	130.6827700000	-11.49977600000
451	683499.051371	8728201.500410	130.6823950000	-11.49996100000
452	683499.643133	8728190.766595	130.6824010000	-11.50005800000
453	683501.923203	8728188.872666	130.6824220000	-11.50007500000
454	683502.353769	8728187.874545	130.6824260000	-11.50008400000
455	683510.644657	8728187.715371	130.6825020000	-11.50008500000
456	683508.413820	8728198.016297	130.6824810000	-11.49999200000
457	683507.902009	8728203.771646	130.6824760000	-11.49994000000
458	683491.048914	8728195.020562	130.6823220000	-11.50002000000
459	683462.772802	8728191.867458	130.6820630000	-11.50005000000
460	683462.458457	8728194.081741	130.6820600000	-11.50003000000
461	683455.836738	8728181.177719	130.6820000000	-11.50014700000
462	683458.243394	8728182.269850	130.6820220000	-11.50013700000
463	683465.014663	8728183.447050	130.6820840000	-11.50012600000
464	683441.141724	8728205.600616	130.6818640000	-11.49992700000
465	683439.393546	8728205.168361	130.6818480000	-11.49993100000
466	683446.310182	8728212.539554	130.6819110000	-11.49986400000
467	683446.213386	8728214.641941	130.6819100000	-11.49984500000
468	683448.220588	8728259.321531	130.6819260000	-11.49944100000
469	683392.634596	8728287.634268	130.6814150000	-11.49918800000
470	683397.336532	8728308.071840	130.6814570000	-11.49900300000

Number	Easting	Northing	Latitude	Longitude
471	683402.009379	8728286.251940	130.6815010000	-11.4992000000
472	683402.119126	8728286.361920	130.6815020000	-11.4991990000
473	683401.014537	8728284.045320	130.6814920000	-11.4992200000
474	683402.972192	8728264.343129	130.6815110000	-11.4993980000
475	683402.168359	8728257.489263	130.6815040000	-11.4994600000
476	683401.186465	8728257.495009	130.6814950000	-11.4994600000
477	683404.636858	8728250.505623	130.6815270000	-11.4995230000
478	683401.061227	8728180.170890	130.6814980000	-11.5001590000
479	683401.644920	8728186.694178	130.6815030000	-11.5001000000
480	683404.724945	8728190.990414	130.6815310000	-11.5000610000
481	683406.623665	8728161.221952	130.6815500000	-11.5003300000
482	683402.702575	8728162.351124	130.6815140000	-11.5003200000
483	683400.628399	8728162.142019	130.6814950000	-11.5003220000
484	683400.953754	8728161.808249	130.6814980000	-11.5003250000
485	683399.406945	8728158.498639	130.6814840000	-11.5003550000
486	683399.398528	8728157.060600	130.6814840000	-11.5003680000
487	683422.518765	8728136.792047	130.6816970000	-11.5005500000
488	683463.222964	8728101.044043	130.6820720000	-11.5008710000
489	683462.349525	8728100.938535	130.6820640000	-11.5008720000
490	683463.551555	8728101.263363	130.6820750000	-11.5008690000
491	683469.544218	8728099.900809	130.6821300000	-11.5008810000
492	683466.799908	8728097.040702	130.6821050000	-11.5009070000
493	683463.639281	8728097.612318	130.6820760000	-11.5009020000
494	683485.484307	8728101.798669	130.6822760000	-11.5008630000
495	683504.885762	8728098.587630	130.6824540000	-11.5008910000
496	683540.259463	8728121.389860	130.6827770000	-11.5006830000
497	683525.519445	8728119.484997	130.6826420000	-11.5007010000
498	683542.736173	8728078.564566	130.6828020000	-11.5010700000
499	683517.390522	8728054.154901	130.6825710000	-11.5012920000
500	683513.024631	8728053.848606	130.6825310000	-11.5012950000
501	683508.531501	8728050.445634	130.6824900000	-11.5013260000
502	683510.601784	8728049.991020	130.6825090000	-11.5013300000
503	683488.802018	8728016.268308	130.6823110000	-11.5016360000
504	683654.495025	8728279.923620	130.6838155300	-11.4992438400
505	683648.348272	8728283.668805	130.6837589900	-11.4992103100
506	683545.031726	8728205.413749	130.6828162300	-11.4999231900
507	683553.379845	8728208.691260	130.6828925700	-11.4998931200
508	683552.252745	8728206.817285	130.6828823400	-11.4999101200
509	683522.189022	8728201.533057	130.6826070700	-11.4999594800
510	683515.160312	8728197.569698	130.6825428600	-11.4999956800
511	683468.383669	8728175.605233	130.6821153000	-11.5001967100
512	683468.538330	8728177.237110	130.6821166300	-11.5001819500
513	683467.522127	8728175.854752	130.6821073900	-11.5001945000
514	683481.160619	8728169.255934	130.6822327500	-11.5002534300
515	683473.755893	8728185.853895	130.6821639900	-11.5001037800
516	683453.685030	8728182.820886	130.6819801900	-11.5001322600
517	683451.504201	8728183.403358	130.6819601700	-11.5001271100

Number	Easting	Northing	Latitude	Longitude
518	683446.936395	8728191.473434	130.6819178700	-11.50005440000
519	683436.790116	8728210.533287	130.6818238500	-11.49988264000
520	683439.640855	8728214.240140	130.6818497800	-11.49984898000
521	683438.220343	8728243.130786	130.6818352100	-11.49958789000
522	683439.393116	8728251.503547	130.6818455100	-11.49951214000
523	683441.068886	8728253.171875	130.6818607800	-11.49949697000
524	683441.151885	8728253.185770	130.6818615400	-11.49949684000
525	683439.229846	8728270.021540	130.6818430200	-11.49934475000
526	683414.503919	8728374.996197	130.6816107600	-11.49839711000
527	683413.970866	8728377.312425	130.6816057500	-11.49837620000
528	683414.685147	8728276.585712	130.6816177000	-11.49928671000
529	683413.872318	8728269.313747	130.6816106400	-11.49935249000
530	683410.747490	8728251.584931	130.6815829500	-11.49951292000
531	683411.449199	8728252.360709	130.6815893400	-11.49950587000
532	683411.247088	8728215.032461	130.6815894900	-11.49984332000
533	683410.617560	8728186.698079	130.6815852400	-11.50009949000
534	683410.051952	8728195.190449	130.6815796002	-11.50002275074
535	683406.949473	8728187.435274	130.6815515800	-11.50009302000
536	683409.239128	8728186.610107	130.6815726105	-11.50010035819
537	683412.979659	8728182.021322	130.6816071411	-11.50014164189
538	683421.407054	8728163.452955	130.6816853800	-11.50030905000
539	683421.344929	8728163.277429	130.6816848200	-11.50031064000
540	683428.058707	8728149.788691	130.6817470800	-11.50043222000
541	683421.047298	8728170.024908	130.6816817300	-11.50024966000
542	683412.731603	8728172.095755	130.6816054000	-11.50023138000
543	683418.080401	8728159.519899	130.6816551000	-11.50034478000
544	683423.910104	8728143.549551	130.6817093900	-11.50048884000
545	683425.448579	8728140.589147	130.6817236500	-11.50051552000
546	683426.562745	8728140.627980	130.6817338600	-11.50051511000
547	683441.927148	8728136.251429	130.6818749200	-11.50055386000
548	683465.336213	8728106.995309	130.6820910500	-11.50081709000
549	683469.899927	8728103.633330	130.6821330600	-11.50084724000
550	683472.458894	8728104.838508	130.6821564500	-11.50083621000
551	683486.246693	8728106.229047	130.6822827500	-11.50082291000
552	683485.753212	8728103.376779	130.6822783800	-11.50084872000
553	683486.684663	8728102.955385	130.6822869400	-11.50085248000
554	683481.427248	8728102.996127	130.6822387500	-11.50085239000
555	683575.076418	8728070.755449	130.6830988400	-11.50113888000
556	683505.027311	8728042.465961	130.6824583100	-11.50139832000
557	683515.858010	8728036.895755	130.6825578800	-11.50144810000
558	683481.794585	8728012.391109	130.6822469800	-11.50167142000
559	683514.202501	8727983.363210	130.6825455800	-11.50193211000
560	683871.936984	8728430.008698	130.6858004500	-11.49787558000
561	681803.303190	8734625.348757	130.6665116100	-11.44197959000
562	681805.091971	8734622.742162	130.6665281400	-11.44200306000
563	681805.554370	8734621.179740	130.6665324600	-11.44201716000
564	681805.601303	8734622.883029	130.6665328000	-11.44200176000

Number	Easting	Northing	Latitude	Longitude
565	681957.402468	8734459.003289	130.6679325600	-11.44347529000
566	681974.084530	8734569.736896	130.6680795700	-11.44247340000
567	681956.707434	8734652.640345	130.6679159400	-11.44172487000
568	681967.078158	8734651.803880	130.6680110200	-11.44173189000
569	681955.470788	8734654.294634	130.6679045200	-11.44170998000
570	682010.345868	8734783.608734	130.6684005400	-11.44053813000
571	682019.250558	8734760.016048	130.6684833900	-11.44075094000
572	682009.971914	8734742.493100	130.6683992900	-11.44090983000
573	682014.846912	8734745.960555	130.6684437800	-11.44087823000
574	681993.661362	8734705.906545	130.6682517600	-11.44124142000
575	681995.377027	8734710.890577	130.6682672182	-11.44119627534
576	681997.225082	8734550.038781	130.6682926700	-11.44265026000
577	681994.053815	8734449.926361	130.6682689100	-11.44355543000
578	681996.226528	8734450.880632	130.6682887700	-11.44354669000
579	681995.392135	8734444.341120	130.6682814700	-11.44360585000
580	681986.811287	8734379.867728	130.6682062500	-11.44418913000
581	683562.905988	8728192.273673	130.6829807648	-11.50004102690
582	683441.371180	8728175.652756	130.6818677100	-11.50019771000
583	683455.694477	8728156.878555	130.6820000000	-11.50036666667
584	683434.606448	8728179.878298	130.6818054800	-11.50015987000
585	683427.748462	8728203.027404	130.6817413800	-11.49995097000
586	683425.034289	8728203.452593	130.6817164800	-11.49994727000
587	683425.226679	8728206.498000	130.6817180800	-11.49991973000
588	683431.864380	8728224.929722	130.6817779300	-11.49975276000
589	683434.694027	8728244.976693	130.6818027900	-11.49957139000
590	683432.183387	8728247.555610	130.6817796400	-11.49954821000
591	683431.444850	8728251.298960	130.6817726700	-11.49951441000
592	683429.261661	8728283.166484	130.6817509500	-11.49922645000
593	683433.195324	8728313.447282	130.6817853800	-11.49895251000
594	683430.418108	8728397.985468	130.6817553900	-11.49818845000
595	683435.109166	8728394.003272	130.6817986000	-11.49822420000
596	683417.471530	8728374.995423	130.6816379600	-11.49839696000
597	683431.586779	8728365.392673	130.6817678500	-11.49848302000
598	683420.481713	8728259.049155	130.6816717700	-11.49944493000
599	683423.371030	8728250.706823	130.6816987000	-11.49952019000
600	683423.504350	8728249.252099	130.6817000000	-11.49953333333
601	683406.568999	8728246.951089	130.6815449000	-11.49955503000
602	683420.643931	8728258.803730	130.6816732700	-11.49944714000
603	683416.305248	8728257.558076	130.6816335700	-11.49945863000
604	683423.471976	8728243.721183	130.6817000000	-11.49958333333
605	683423.144146	8728236.735471	130.6816973700	-11.49964650000
606	683441.148043	8728293.865592	130.6818593222	-11.49912910344
607	683422.747516	8728262.837290	130.6816923343	-11.49941056619
608	683423.385646	8728228.972073	130.6817000000	-11.49971666667
609	683432.455667	8728225.231578	130.6817833333	-11.49975000000
610	683422.021023	8728225.474076	130.6816876800	-11.49974836000
611	683428.025334	8728212.117816	130.6817434300	-11.49986878000

Number	Easting	Northing	Latitude	Longitude
612	683417.432903	8728185.153727	130.6816477900	-11.50011309000
613	683415.772191	8728192.394815	130.6816321800	-11.50004772000
614	683418.568234	8728202.787991	130.6816572500	-11.49995362000
615	683416.653906	8728183.848521	130.6816407200	-11.50012493000
616	683415.984552	8728181.144409	130.6816347300	-11.50014941000
617	683419.707997	8728180.545168	130.6816688900	-11.50015463000
618	683426.873210	8728164.403282	130.6817354300	-11.50030017000
619	683435.331399	8728171.523233	130.6818125729	-11.50023535961
620	683454.122978	8728142.457835	130.6819863700	-11.50049711000
621	683461.520845	8728144.778036	130.6820540519	-11.50047574436
622	683440.268119	8728139.305463	130.6818595500	-11.50052634000
623	683483.612740	8728125.941852	130.6822575500	-11.50064485000
624	683473.091664	8728118.249952	130.6821615300	-11.50071494000
625	683475.898714	8728119.899485	130.6821871700	-11.50069988000
626	683519.577265	8728158.509759	130.6825854410	-11.50034853938
627	683513.874865	8728146.301638	130.6825338300	-11.50045920000
628	683557.768320	8728045.973492	130.6829415300	-11.50136382000
629	683530.182508	8728017.042560	130.6826902400	-11.50162681000
630	683513.317051	8727997.411882	130.6825367100	-11.50180516000
631	683924.433490	8728492.488824	130.6862782500	-11.49730799000
632	683931.706001	8728508.396387	130.6863440510	-11.49716380362
633	683933.020041	8728498.633290	130.6863566200	-11.49725199000
634	683519.854766	8728177.222019	130.6825869800	-11.50017937000
635	683429.261661	8728283.166484	130.6817509500	-11.49922645000
636	683429.261661	8728283.166484	130.6817509500	-11.49922645000
637	683429.261661	8728283.166484	130.6817509500	-11.49922645000
638	683431.444850	8728251.298960	130.6817726700	-11.49951441000
639	683431.444850	8728251.298960	130.6817726700	-11.49951441000
640	683431.444850	8728251.298960	130.6817726700	-11.49951441000
641	683434.694027	8728244.976693	130.6818027900	-11.49957139000
642	683933.020041	8728498.633290	130.6863566200	-11.49725199000
643	683933.020041	8728498.633290	130.6863566200	-11.49725199000
644	683933.020041	8728498.633290	130.6863566200	-11.49725199000
645	683933.020041	8728498.633290	130.6863566200	-11.49725199000
646	683519.577265	8728158.509759	130.6825854410	-11.50034853938
647	683475.898714	8728119.899485	130.6821871700	-11.50069988000
648	683475.898714	8728119.899485	130.6821871700	-11.50069988000
649	683475.898714	8728119.899485	130.6821871700	-11.50069988000
650	683475.898714	8728119.899485	130.6821871700	-11.50069988000
651	683440.268119	8728139.305463	130.6818595500	-11.50052634000
652	683454.122978	8728142.457835	130.6819863700	-11.50049711000
653	683426.873210	8728164.403282	130.6817354300	-11.50030017000
654	683426.873210	8728164.403282	130.6817354300	-11.50030017000
655	683426.873210	8728164.403282	130.6817354300	-11.50030017000
656	683415.984552	8728181.144409	130.6816347300	-11.50014941000
657	683423.144146	8728236.735471	130.6816973700	-11.49964650000
658	683423.144146	8728236.735471	130.6816973700	-11.49964650000

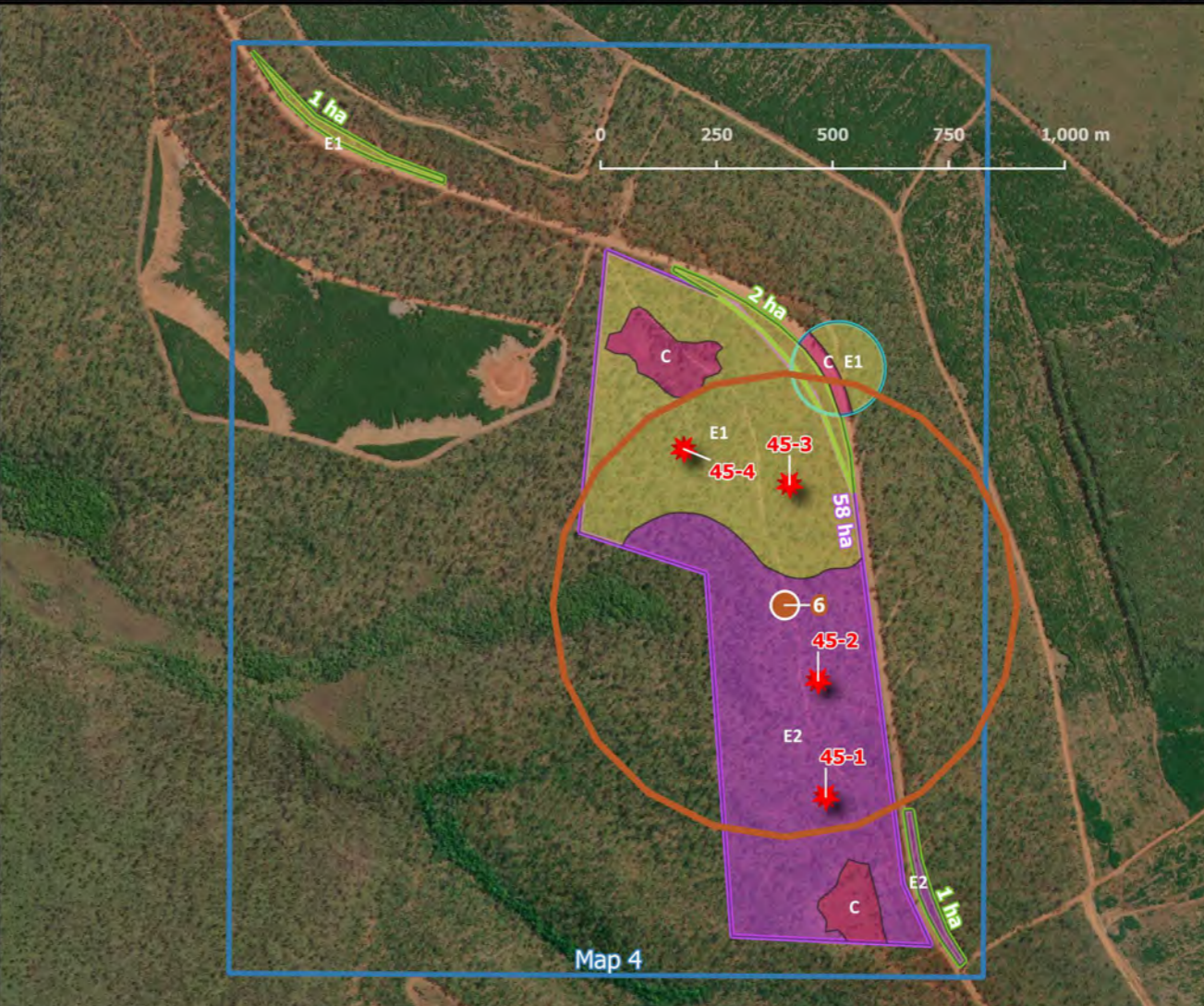
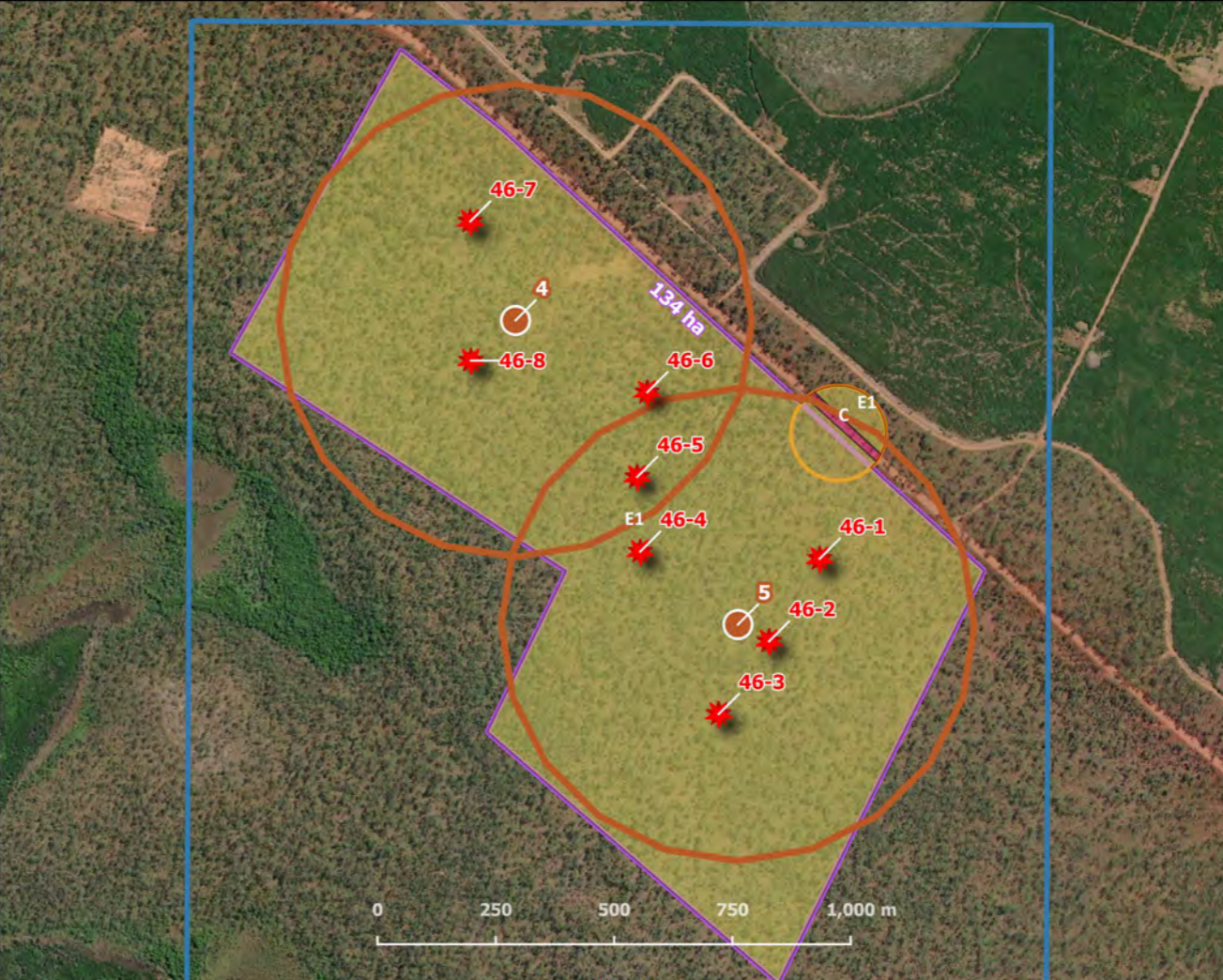
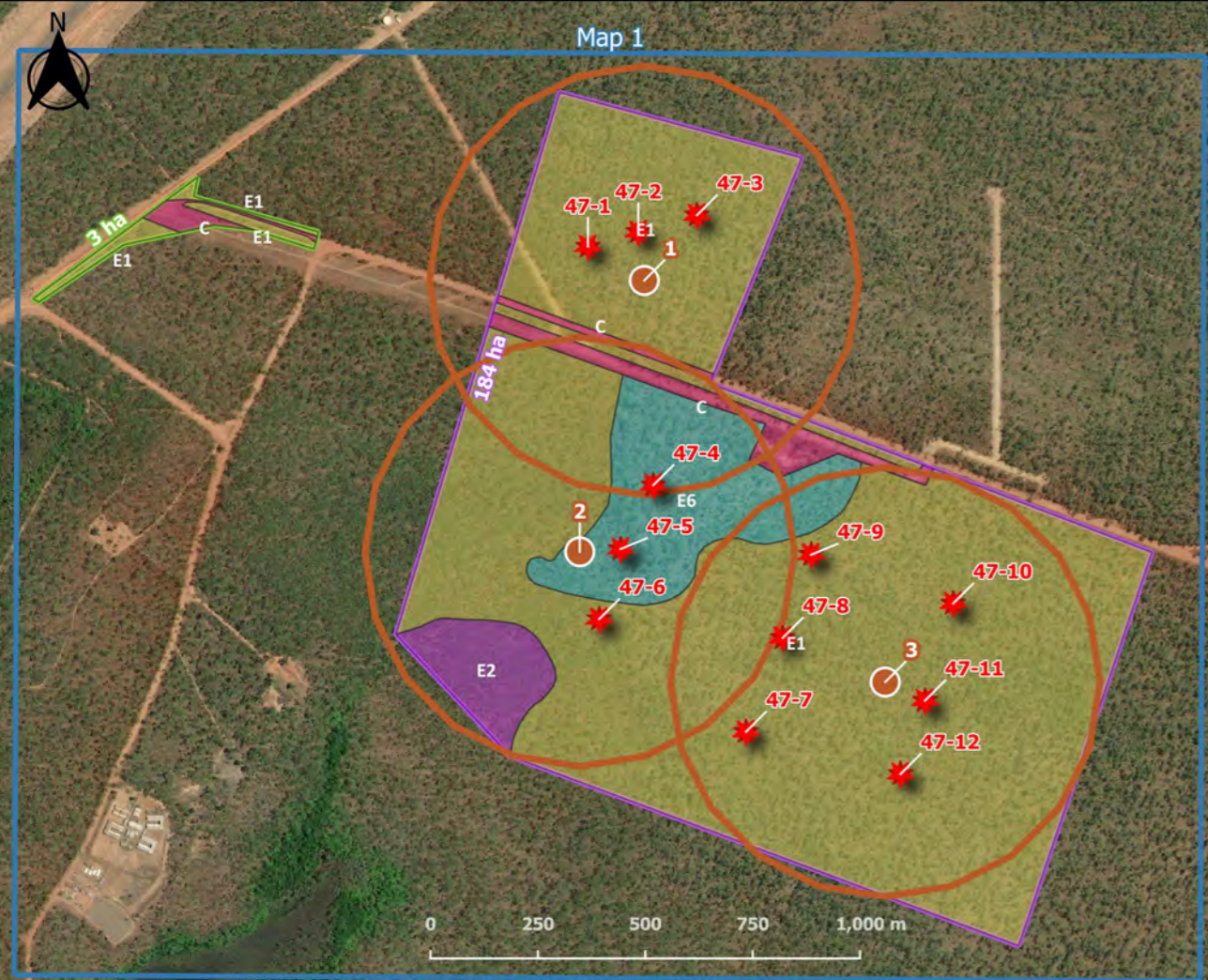
Number	Easting	Northing	Latitude	Longitude
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661	681921.745567	8734484.764908	130.6676044400	-11.44324427000
662	681934.426485	8734480.167265	130.6677208900	-11.44328517000
663	682043.253641	8734795.703048	130.6687014600	-11.44042708000
664	682028.524206	8734687.911736	130.6685721900	-11.44140227000
665	682028.850188	8734690.314751	130.6685750500	-11.44138053000
666	682023.339773	8734686.792342	130.6685247400	-11.44141266000
667	682024.379860	8734685.870391	130.6685343200	-11.44142094000
668	682029.900981	8734678.026437	130.6685853300	-11.44149156000
669	682035.148787	8734680.525923	130.6686332877	-11.44146869081
670	682031.755453	8734652.987735	130.6686036500	-11.44171781000
671	682033.769480	8734668.401079	130.6686212900	-11.44157837000
672	682031.755453	8734652.987735	130.6686036500	-11.44171781000
673	683394.386949	8728326.440200	130.6814289800	-11.49883711000
674	683518.344625	8728232.525354	130.6825701700	-11.49967952000
675	683529.309037	8728235.988883	130.6826704800	-11.49964763000
676	683536.075518	8728227.217845	130.6827329700	-11.49972656000
677	683506.508212	8728218.582160	130.6824624300	-11.49980619000
678	683507.659637	8728217.344192	130.6824730500	-11.49981732000
679	683507.577065	8728217.403306	130.6824722900	-11.49981679000
680	683492.744293	8728233.017088	130.6823355000	-11.49967643000
681	683494.302262	8728233.944935	130.6823497300	-11.49966796000
682	683507.774876	8728239.258874	130.6824729300	-11.49961921000
683	683518.379982	8728222.354545	130.6825710400	-11.49977146000
684	683498.790453	8728210.788668	130.6823921100	-11.49987705000
685	683483.930111	8728200.824554	130.6822564400	-11.49996791000
686	683482.919446	8728196.475278	130.6822474100	-11.50000728000
687	683482.978004	8728195.482654	130.6822480000	-11.50001625000
688	683461.489026	8728210.378740	130.6820502400	-11.49988273000
689	683451.569756	8728256.661375	130.6819568400	-11.49946487000
690	683448.621031	8728254.481681	130.6819299300	-11.49948473000
691	683447.393881	8728255.830711	130.6819186100	-11.49947260000
692	683448.120317	8728254.493462	130.6819253400	-11.49948465000
693	683448.405397	8728254.921007	130.6819279300	-11.49948077000
694	683448.404785	8728255.002871	130.6819279200	-11.49948003000
695	683448.290205	8728254.999117	130.6819268700	-11.49948007000
696	683454.697871	8728301.785741	130.6819830900	-11.49905679000
697	683453.065103	8728406.690878	130.6819624963	-11.49810855673
698	683398.107050	8728391.267315	130.6814596000	-11.49825089000
699	683390.069065	8728309.359973	130.6813903200	-11.49899174000
700	683386.157225	8728314.496924	130.6813541900	-11.49894551000
701	683392.806020	8728323.266854	130.6814146600	-11.49886588000
702	683387.090721	8728289.067186	130.6813641100	-11.49917534000
703	683394.558903	8728258.131155	130.6814342200	-11.49945460000
704	683396.510041	8728262.669623	130.6814518600	-11.49941347000
705	683387.582356	8728268.673338	130.6813697100	-11.49935967000

Number	Easting	Northing	Latitude	Longitude
706	683401.032546	8728250.955931	130.6814939400	-11.49951912000
707	683403.864131	8728248.966967	130.6815200000	-11.49953695000
708	683398.419630	8728236.432160	130.6814707700	-11.49965055000
709	683397.279490	8728236.429983	130.6814603200	-11.49965063000
710	683388.853818	8728259.608160	130.6813818500	-11.49944155000
711	683399.085558	8728182.811940	130.6814797500	-11.50013523000
712	683398.349163	8728181.142538	130.6814730900	-11.50015036000
713	683398.548772	8728193.251172	130.6814742700	-11.50004089000
714	683399.309648	8728194.256698	130.6814811900	-11.50003176000
715	683424.200934	8728123.339399	130.6817131400	-11.50067152000
716	683481.429695	8728068.014068	130.6822406500	-11.50116862000
717	683545.019108	8728107.148135	130.6828213900	-11.50081149000
718	683543.849299	8728104.315316	130.6828108200	-11.50083716000
719	683545.361333	8728104.665981	130.6828246600	-11.50083391000
720	683543.039154	8728107.937407	130.6828032000	-11.50080446000
721	683555.862875	8728100.825610	130.6829211200	-11.50086807000
722	683568.419202	8728094.257421	130.6830365600	-11.50092678000
723	683569.267854	8728094.787861	130.6830443100	-11.50092194000
724	683552.156663	8728095.238775	130.6828874500	-11.50091877000
725	683554.688560	8728092.195108	130.6829108200	-11.50094615000
726	683559.334204	8728093.694479	130.6829533200	-11.50093235000
727	683569.331077	8728095.523128	130.6830448500	-11.50091529000
728	683568.907236	8728090.033219	130.6830412600	-11.50096494000
729	683557.444534	8728082.145530	130.6829366200	-11.50103685000
730	683556.703142	8728082.790375	130.6829297900	-11.50103106000
731	683565.343049	8728084.107050	130.6830089100	-11.50101870000
732	683578.772187	8728104.354098	130.6831309100	-11.50083496000
733	683539.933847	8728086.661932	130.6827758800	-11.50099695000
734	683537.438482	8728084.394413	130.6827531300	-11.50101758000
735	683535.858552	8728088.657090	130.6827384200	-11.50097913000
736	683529.213130	8728081.767748	130.6826778800	-11.50104176000
737	683536.268681	8728067.593330	130.6827433100	-11.50116952000
738	683523.616600	8728078.666578	130.6826267504	-11.50107009021
739	683530.407960	8728079.000726	130.6826889800	-11.50106671000
740	683500.078212	8728059.195576	130.6824120500	-11.50124735000
741	683493.065903	8728056.350510	130.6823479300	-11.50127344000
742	683486.320682	8728053.655432	130.6822862500	-11.50129816000
743	683484.734646	8728053.336172	130.6822717300	-11.50130113000
744	683494.527793	8728051.306428	130.6823616000	-11.50131896000
745	683495.980213	8728055.077881	130.6823747100	-11.50128479000
746	683461.177561	8728024.134908	130.6820573800	-11.50156635000
747	683468.312453	8728050.338235	130.6821213700	-11.50132910000
748	683465.686315	8728048.467505	130.6820974000	-11.50134615000
749	683466.483743	8728048.821251	130.6821046900	-11.50134291000
750	683887.771883	8728490.742599	130.6859423200	-11.49732572000
751	683888.703191	8728487.505856	130.6859510300	-11.49735493000
752	683391.694660	8728282.691642	130.6814066500	-11.49923273000

Number	Easting	Northing	Latitude	Longitude
753	683545.877577	8728072.290479	130.6828311300	-11.50112655000
754	683568.850565	8728094.699596	130.6830404900	-11.50092276000
755	683577.876777	8728087.835705	130.6831235900	-11.50098433000
756	683545.877577	8728072.290479	130.6828311300	-11.50112655000
757	683545.877577	8728072.290479	130.6828311300	-11.50112655000
758	683545.877577	8728072.290479	130.6828311300	-11.50112655000
759	683545.877577	8728072.290479	130.6828311300	-11.50112655000
760	683545.877577	8728072.290479	130.6828311300	-11.50112655000
761	683545.877577	8728072.290479	130.6828311300	-11.50112655000
762	683545.877577	8728072.290479	130.6828311300	-11.50112655000
763	683545.877577	8728072.290479	130.6828311300	-11.50112655000
764	681935.644174	8734390.226545	130.6677368100	-11.44409816000
765	681977.700810	8734457.341745	130.6681186600	-11.44348925000
766	681968.492401	8734591.354660	130.6680271800	-11.44227827000
767	681973.568862	8734676.357411	130.6680692000	-11.44150959000
768	682007.578638	8734773.629015	130.6683757100	-11.44062849000
769	681988.616873	8734696.521848	130.6682060300	-11.44132652000
770	681984.706045	8734699.578773	130.6681700300	-11.44129909000
771	681981.913115	8734697.993117	130.6681445200	-11.44131357000
772	681984.515033	8734654.993013	130.6681706400	-11.44170215000
773	681998.173204	8734648.785705	130.6682961300	-11.44175755000
774	683600.231364	8728899.275576	130.6832849200	-11.49364791000
775	683600.231364	8728899.275576	130.6832849200	-11.49364791000
776	683600.231364	8728899.275576	130.6832849200	-11.49364791000
777	683600.231364	8728899.275576	130.6832849200	-11.49364791000
778	683600.231364	8728899.275576	130.6832849200	-11.49364791000
779	683600.231364	8728899.275576	130.6832849200	-11.49364791000
780	683600.231364	8728899.275576	130.6832849200	-11.49364791000
781	683391.694660	8728282.691642	130.6814066500	-11.49923273000
782	683391.694660	8728282.691642	130.6814066500	-11.49923273000
783	683391.694660	8728282.691642	130.6814066500	-11.49923273000
784	683391.694660	8728282.691642	130.6814066500	-11.49923273000
785	683391.694660	8728282.691642	130.6814066500	-11.49923273000
786	683391.694660	8728282.691642	130.6814066500	-11.49923273000
787	683391.694660	8728282.691642	130.6814066500	-11.49923273000
788	683391.694660	8728282.691642	130.6814066500	-11.49923273000



## 21 Appendix H: Camera and pitfall trap locations, Red Goshawk nest search target areas, and vegetation communities



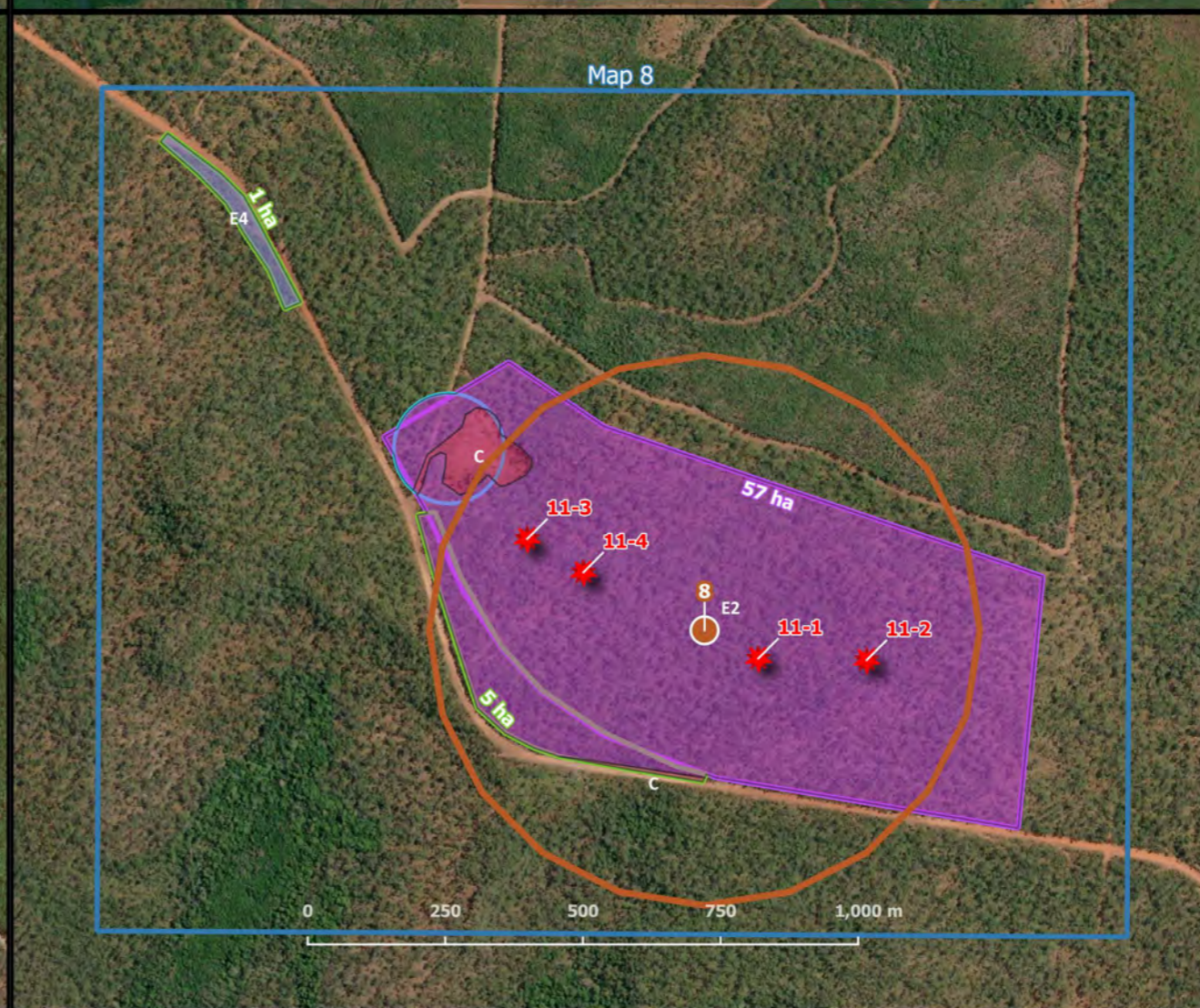
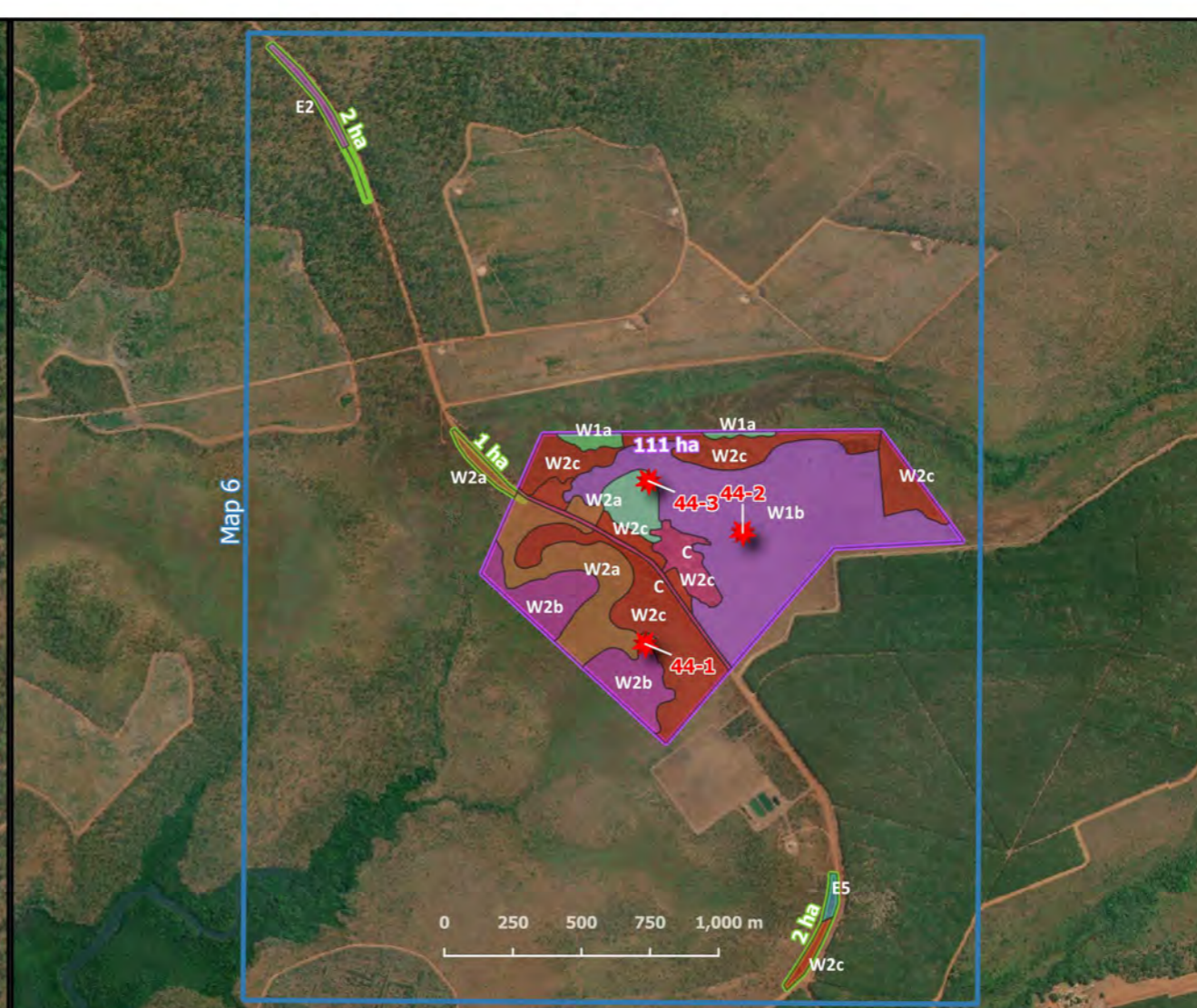
### Camera and pitfall trap locations (Maps 1-4)

- Key**
- Camera locations FINAL
  - Pitfall traps
  - Pitfall traps - buffer 500 m
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Vegetation communities**
- E1 - *E. miniata*, *E. tetradonta*, *C. nesophila* tall open forest
  - E2 - *C. nesophila*, *E. miniata* tall open forest (on edge of plateau)
  - E3 - *E. tetradonta* and *E. miniata* mid sparse to open woodland
  - E4 - *E. miniata*, *E. tetradonta* tall open forest
  - E5 - *C. nesophila*, *E. miniata* tall open forest (plateau lower footslope)
  - E6 - *E. miniata*, *C. nesophila*, *C. latifolia* mid open forest
  - E7a - *C. bleeseri*, *C. nesophila* mid woodland
  - E7b - *E. miniata*, *C. bleeseri* mid woodland
  - W1a - *Pandanus spiralis* mid sparse shrubland
  - W1b - *Grevillea pteridifolia* low isolated tree over *Sorghum* spp. tall closed tussock grassland
  - W2a - *Melaleuca viridiflora* and / or *M. nervosa* low open forest
  - W2b - *Lophostemon lactifluus*, *Melaleuca viridiflora*, *Buchania obovata* low woodland
  - W2c - *Melaleuca viridiflora* +/- *M. nervosa*, *Grevillea pteridifolia* low open woodland
  - W2d - *Grevillea pteridifolia*, *G. heliosperma*, *Planchonia careya* low open woodland
  - W3a - *Corymbia porrecta*, *Melaleuca nervosa* +/- *M. viridiflora*, *Grevillea pteridifolia* low open woodland
  - C - cleared
  - P - Plantation

Background - ESRI Satellite

Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84





### Camera and pitfall trap locations (Maps 5-8)

- Key**
- Camera locations FINAL
  - Pitfall traps
  - Pitfall traps - buffer 500 m
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Vegetation communities**
- E1 - *E. miniata*, *E. tetradonta*, *C. nesophila* tall open forest
  - E2 - *C. nesophila*, *E. miniata* tall open forest (on edge of plateau)
  - E3 - *E. tetradonta* and *E. miniata* mid sparse to open woodland
  - E4 - *E. miniata*, *E. tetradonta* tall open forest
  - E5 - *C. nesophila*, *E. miniata* tall open forest (plateau lower footslope)
  - E6 - *E. miniata*, *C. nesophila*, *C. latifolia* mid open forest
  - E7a - *C. bleeseri*, *C. nesophila* mid woodland
  - E7b - *E. miniata*, *C. bleeseri* mid woodland
  - W1a - *Pandanus spiralis* mid sparse shrubland
  - W1b - *Grevillea pteridifolia* low isolated tree over *Sorghum* spp. tall closed tussock grassland
  - W2a - *Melaleuca viridiflora* and / or *M. nervosa* low open forest
  - W2b - *Lophostemon lactifluus*, *Melaleuca viridiflora*, *Buchanania obovata* low woodland
  - W2c - *Melaleuca viridiflora* +/- *M. nervosa*, *Grevillea pteridifolia* low open woodland
  - W2d - *Grevillea pteridifolia*, *G. heliosperma*, *Planchonia careya* low open woodland
  - W3a - *Corymbia porrecta*, *Melaleuca nervosa* +/- *M. viridiflora*, *Grevillea pteridifolia* low open woodland
  - C - cleared
  - P - Plantation

Background - ESRI Satellite

Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84



# Camera and pitfall trap locations (Maps 9-12)

## Key

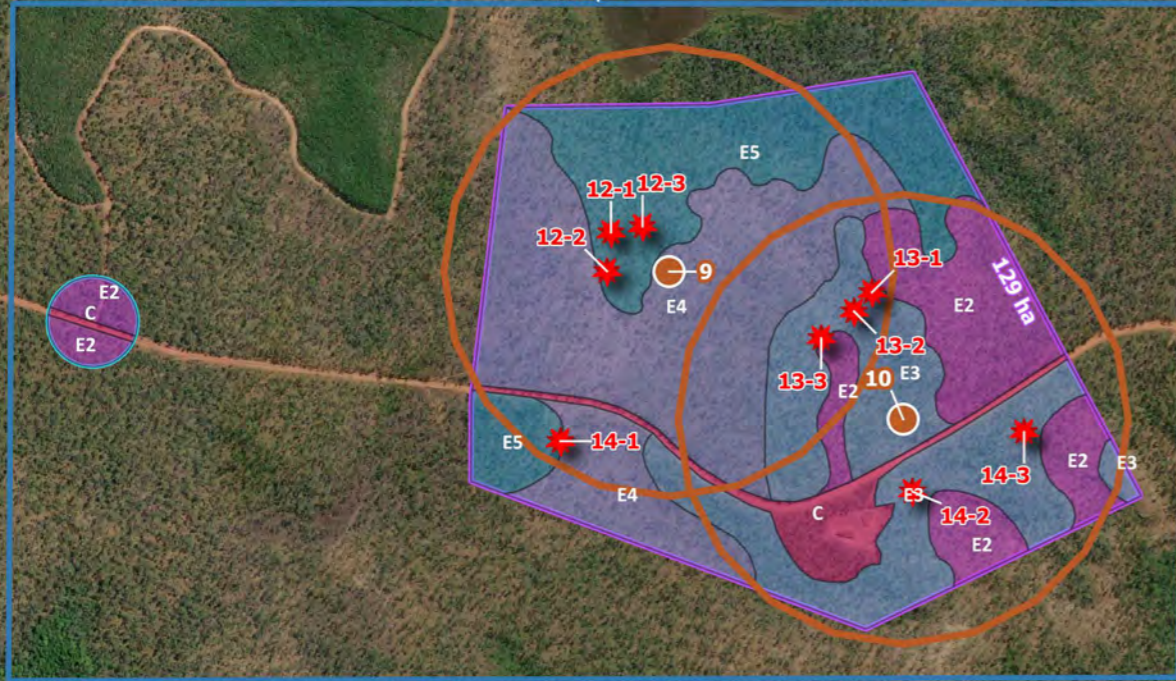
- Camera locations FINAL
  - Pitfall traps
  - Pitfall traps - buffer 500 m
  - Map areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Gravel extraction area
  - Road realignment
- Vegetation communities**
- E1 - *E. miniata*, *E. tetradonta*, *C. nesophila* tall open forest
  - E2 - *C. nesophila*, *E. miniata* tall open forest (on edge of plateau)
  - E3 - *E. tetradonta* and *E. miniata* mid sparse to open woodland
  - E4 - *E. miniata*, *E. tetradonta* tall open forest
  - E5 - *C. nesophila*, *E. miniata* tall open forest (plateau lower footslope)
  - E6 - *E. miniata*, *C. nesophila*, *C. latifolia* mid open forest
  - E7a - *C. bleeseri*, *C. nesophila* mid woodland
  - E7b - *E. miniata*, *C. bleeseri* mid woodland
  - W1a - *Pandanus spiralis* mid sparse shrubland
  - W1b - *Grevillea pteridifolia* low isolated tree over *Sorghum* spp. tall closed tussock grassland
  - W2a - *Melaleuca viridiflora* and / or *M. nervosa* low open forest
  - W2b - *Lophostemon lactifluus*, *Melaleuca viridiflora*, *Buchanania obovata* low woodland
  - W2c - *Melaleuca viridiflora* +/- *M. nervosa*, *Grevillea pteridifolia* low open woodland
  - W2d - *Grevillea pteridifolia*, *G. heliosperma*, *Planchonia careya* low open woodland
  - W3a - *Corymbia porrecta*, *Melaleuca nervosa* +/- *M. viridiflora*, *Grevillea pteridifolia* low open woodland
  - C - cleared
  - P - Plantation

## Background - ESRI Satellite

Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84



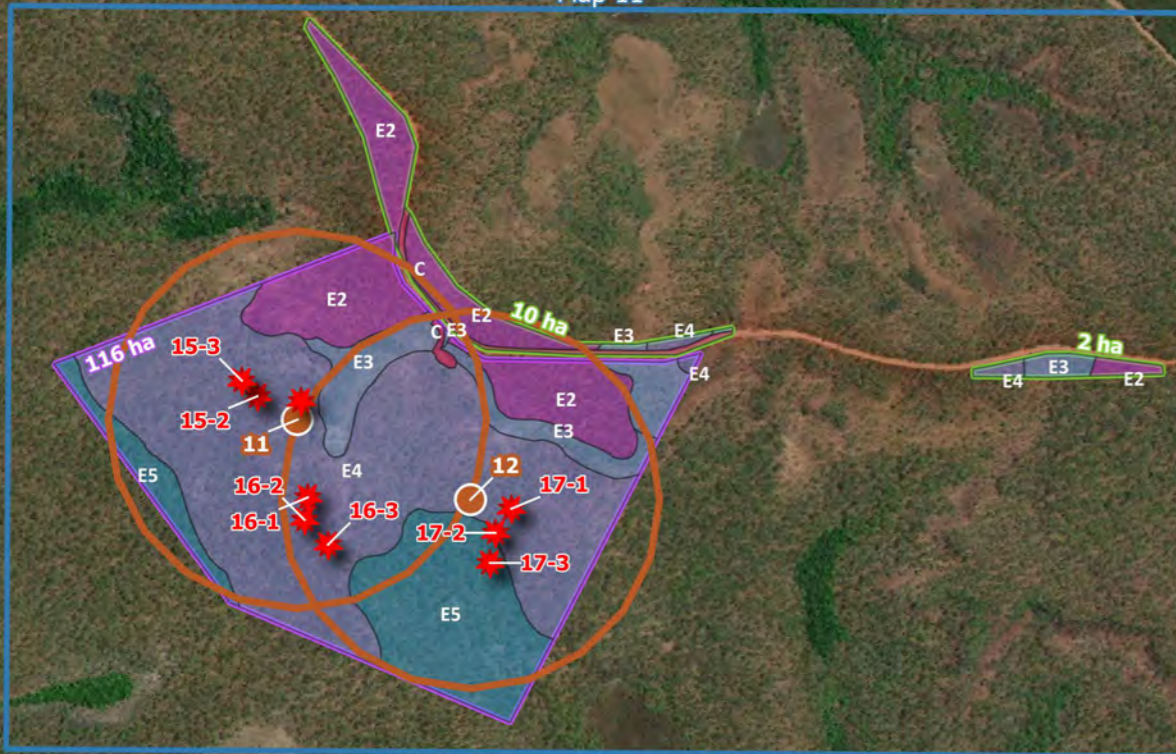
Map 9



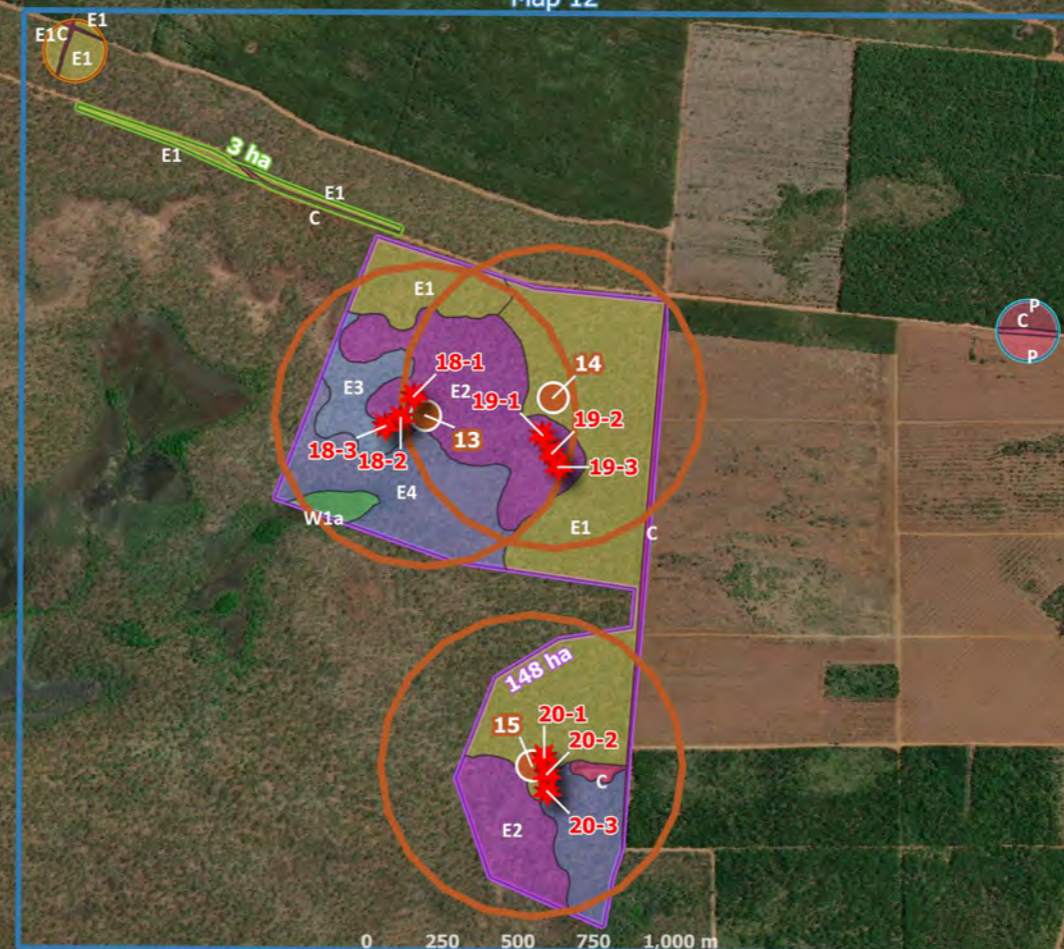
Map 10



Map 11



Map 12



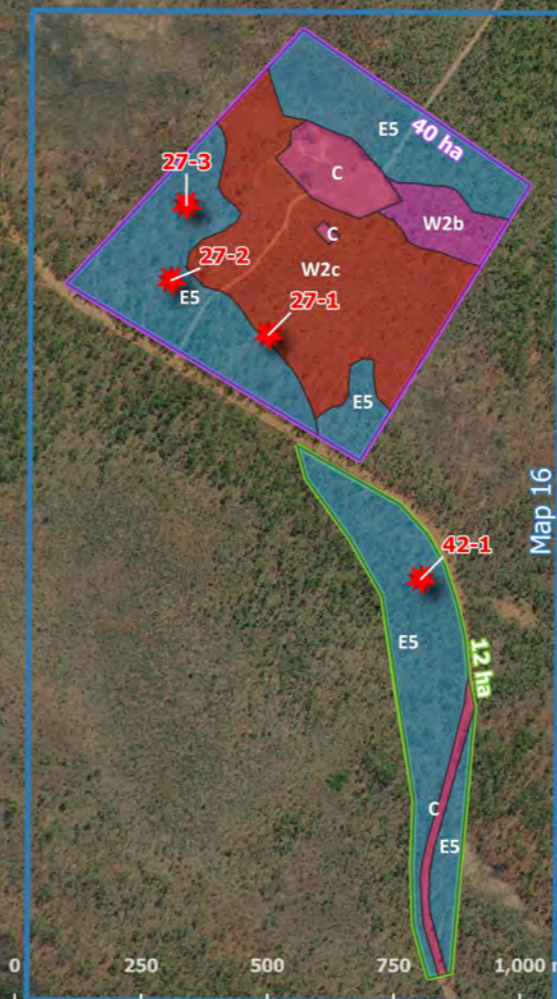
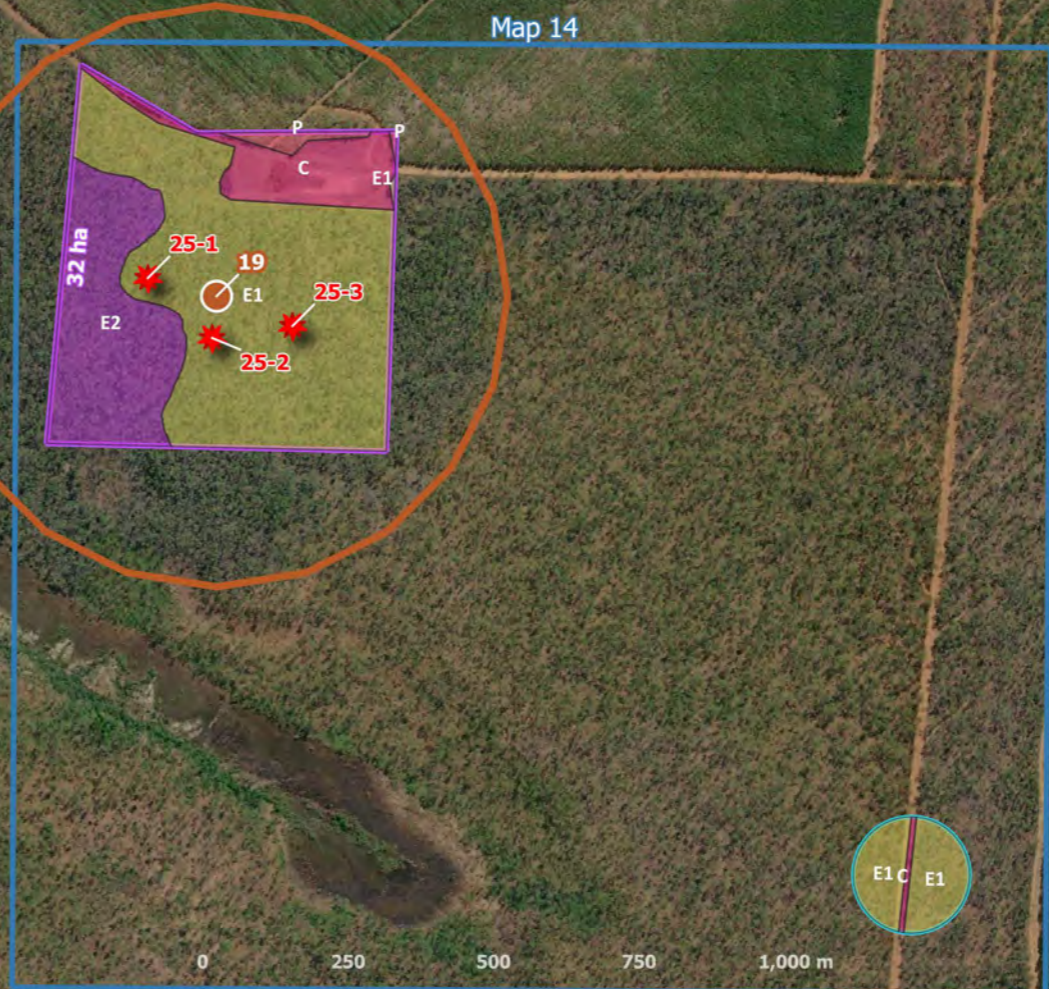
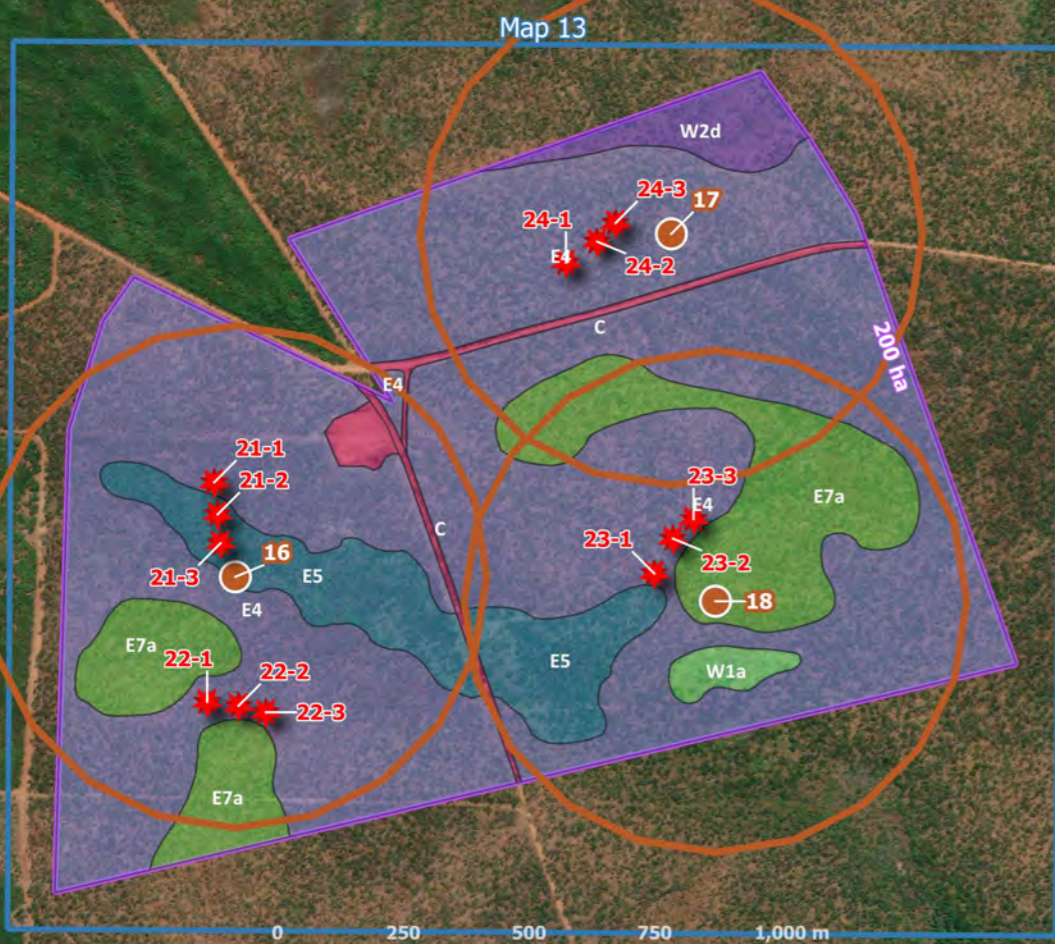
# Camera and pitfall trap locations (Maps 13-16)

## Key

-  Camera locations FINAL
  -  Pitfall traps
  -  Pitfall traps - buffer 500 m
  -  Map areas
  -  Existing bores 100 m buffer
  -  Water points 100 m buffer
  -  Gravel extraction area
  -  Road realignment
- 
- ## Vegetation communities
-  E1 - *E. miniata*, *E. tetradonta*, *C. nesophila* tall open forest
  -  E2 - *C. nesophila*, *E. miniata* tall open forest (on edge of plateau)
  -  E3 - *E. tetradonta* and *E. miniata* mid sparse to open woodland
  -  E4 - *E. miniata*, *E. tetradonta* tall open forest
  -  E5 - *C. nesophila*, *E. miniata* tall open forest (plateau lower footslope)
  -  E6 - *E. miniata*, *C. nesophila*, *C. latifolia* mid open forest
  -  E7a - *C. bleeseri*, *C. nesophila* mid woodland
  -  E7b - *E. miniata*, *C. bleeseri* mid woodland
  -  W1a - *Pandanus spiralis* mid sparse shrubland
  -  W1b - *Grevillea pteridifolia* low isolated tree over *Sorghum* spp. tall closed tussock grassland
  -  W2a - *Melaleuca viridiflora* and / or *M. nervosa* low open forest
  -  W2b - *Lophostemon lactifluus*, *Melaleuca viridiflora*, *Buchanania obovata* low woodland
  -  W2c - *Melaleuca viridiflora* +/- *M. nervosa*, *Grevillea pteridifolia* low open woodland
  -  W2d - *Grevillea pteridifolia*, *G. heliosperma*, *Planchonia careya* low open woodland
  -  W3a - *Corymbia porrecta*, *Melaleuca nervosa* +/- *M. viridiflora*, *Grevillea pteridifolia* low open woodland
  -  C - cleared
  -  P - Plantation

Background - ESRI Satellite

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## Camera and pitfall trap locations (Maps 17-20)

### Key

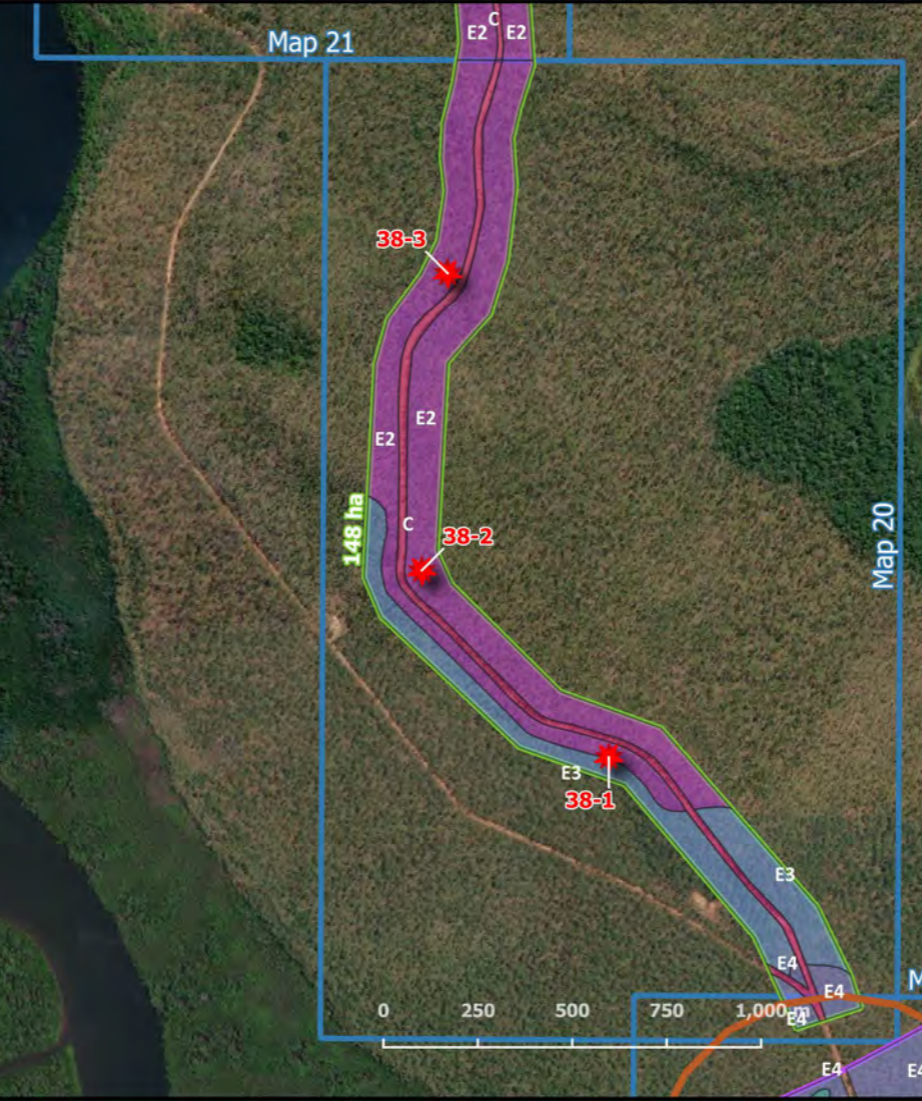
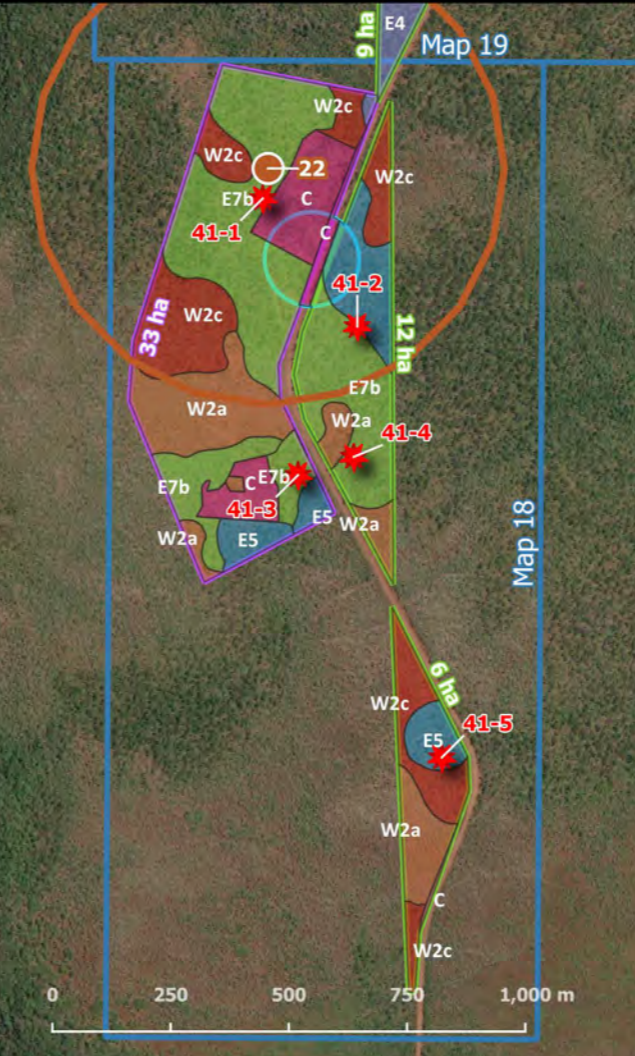
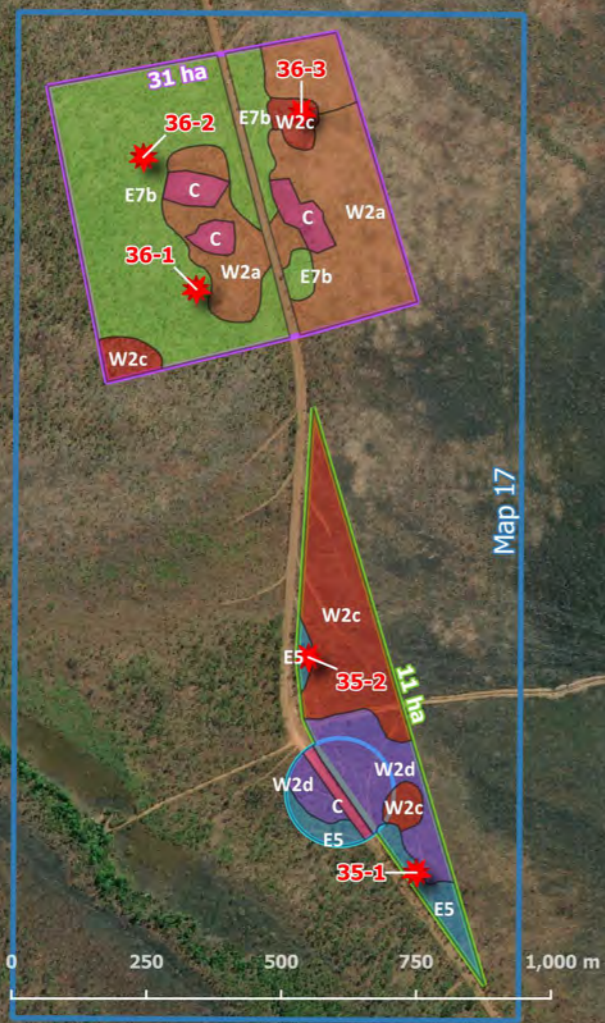
-  Camera locations FINAL
-  Pitfall traps
-  Pitfall traps - buffer 500 m
-  Map areas
-  Existing bores 100 m buffer
-  Water points 100 m buffer
-  Gravel extraction area
-  Road realignment

### Vegetation communities

-  E1 - *E. miniata*, *E. tetradonta*, *C. nesophila* tall open forest
-  E2 - *C. nesophila*, *E. miniata* tall open forest (on edge of plateau)
-  E3 - *E. tetradonta* and *E. miniata* mid sparse to open woodland
-  E4 - *E. miniata*, *E. tetradonta* tall open forest
-  E5 - *C. nesophila*, *E. miniata* tall open forest (plateau lower footslope)
-  E6 - *E. miniata*, *C. nesophila*, *C. latifolia* mid open forest
-  E7a - *C. bleeseri*, *C. nesophila* mid woodland
-  E7b - *E. miniata*, *C. bleeseri* mid woodland
-  W1a - *Pandanus spiralis* mid sparse shrubland
-  W1b - *Grevillea pteridifolia* low isolated tree over *Sorghum* spp. tall closed tussock grassland
-  W2a - *Melaleuca viridiflora* and / or *M. nervosa* low open forest
-  W2b - *Lophostemon lactifluus*, *Melaleuca viridiflora*, *Buchanania obovata* low woodland
-  W2c - *Melaleuca viridiflora* +/- *M. nervosa*, *Grevillea pteridifolia* low open woodland
-  W2d - *Grevillea pteridifolia*, *G. heliosperma*, *Planchonia careya* low open woodland
-  W3a - *Corymbia porrecta*, *Melaleuca nervosa* +/- *M. viridiflora*, *Grevillea pteridifolia* low open woodland
-  C - cleared
-  P - Plantation

Background - ESRI Satellite

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# Camera and pitfall trap locations (Maps 21-22)

## Key

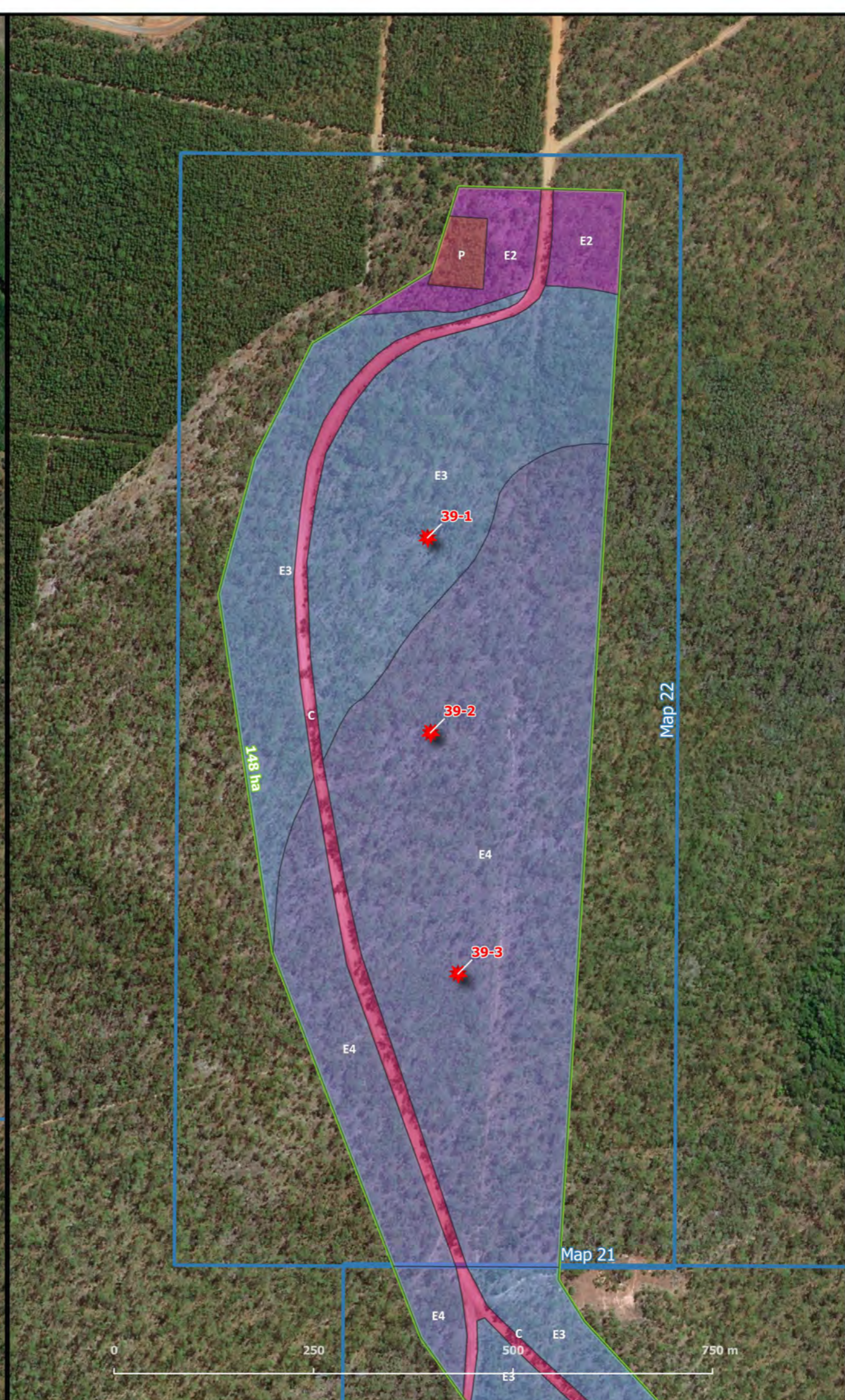
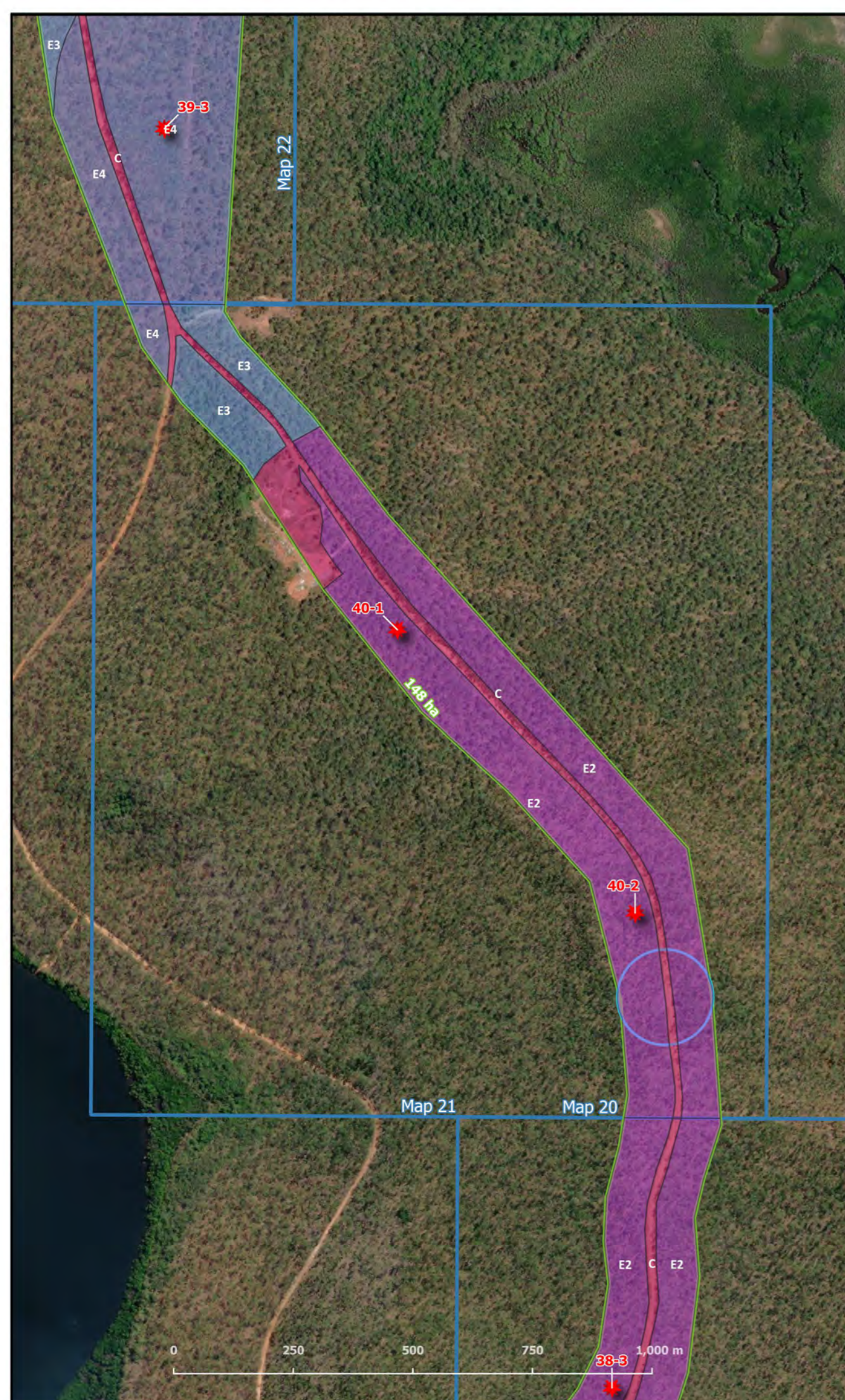
- Camera locations FINAL
- Pitfall traps
- Pitfall traps - buffer 500 m
- Map areas
- Existing bores 100 m buffer
- Water points 100 m buffer
- Gravel extraction area
- Road realignment

## Vegetation communities

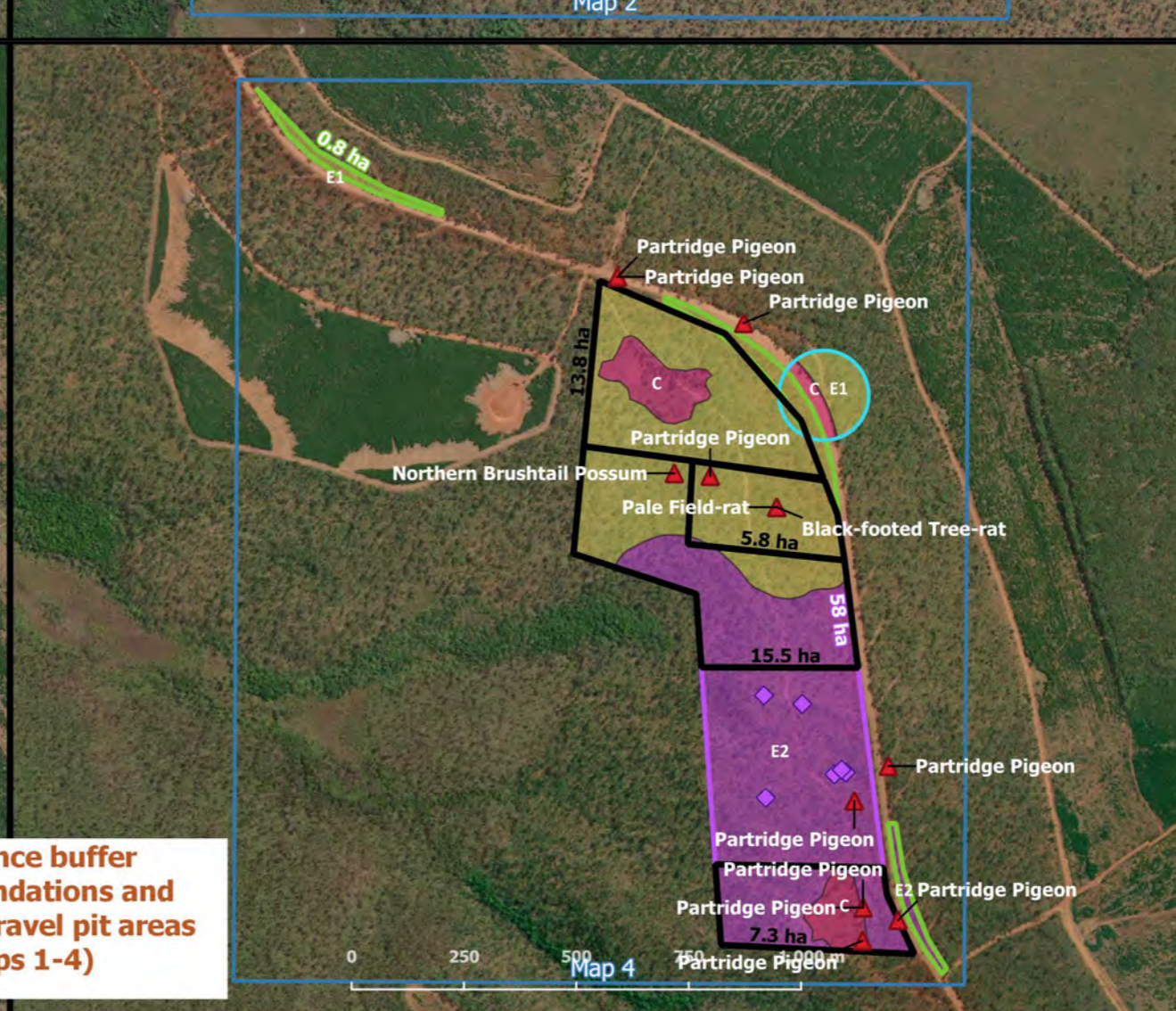
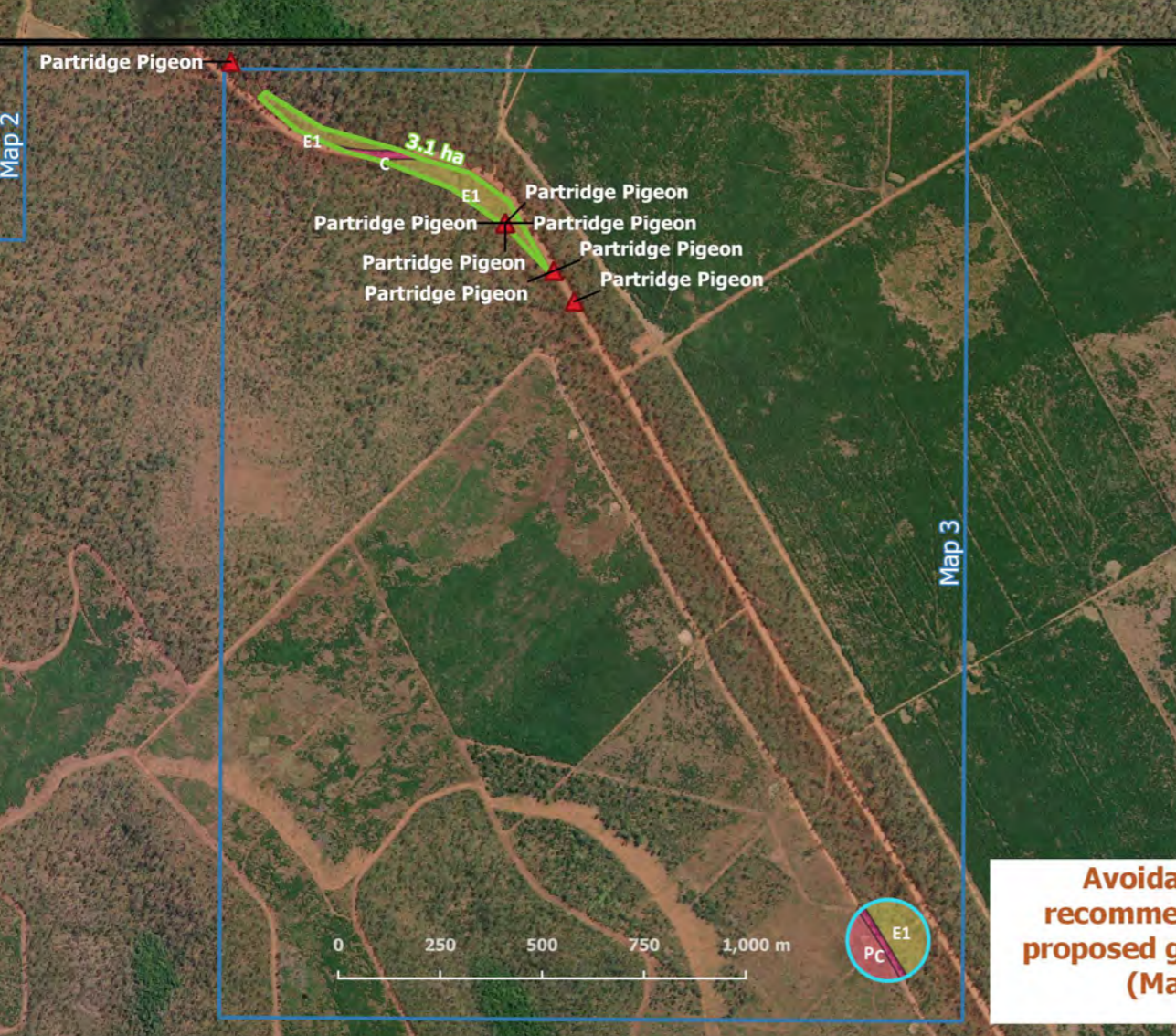
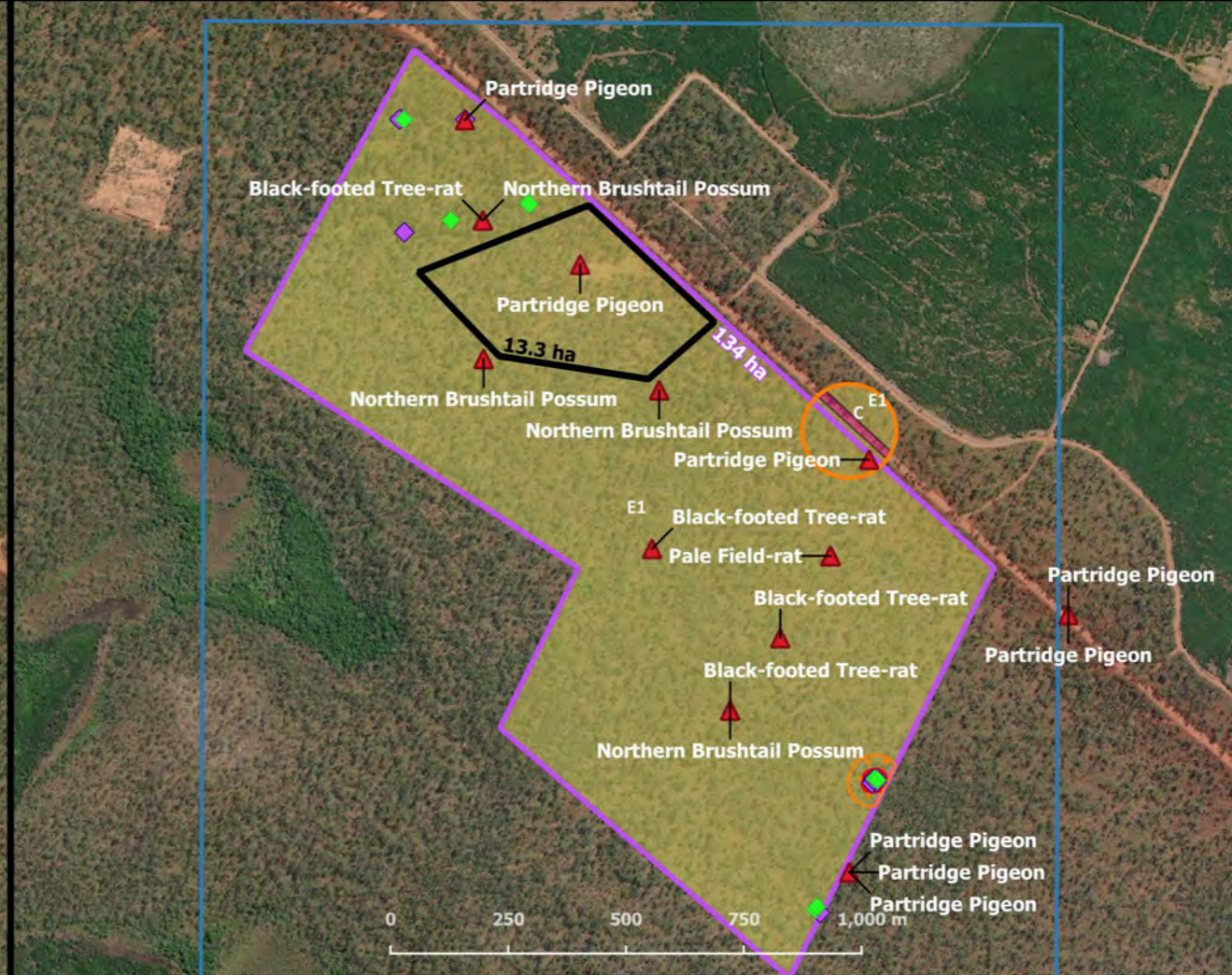
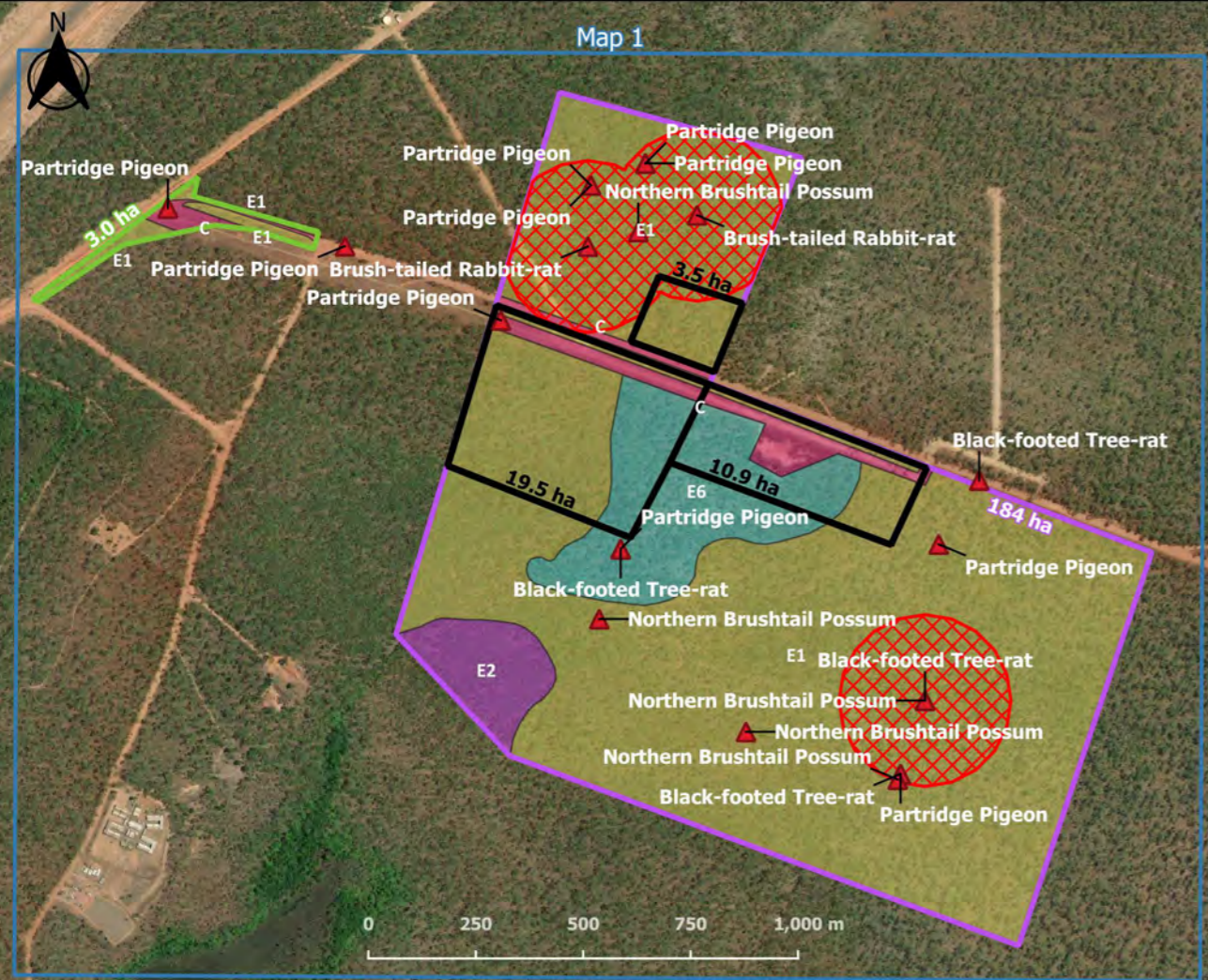
- E1 - *E. miniata*, *E. tetradonta*, *C. nesophila* tall open forest
- E2 - *C. nesophila*, *E. miniata* tall open forest (on edge of plateau)
- E3 - *E. tetradonta* and *E. miniata* mid sparse to open woodland
- E4 - *E. miniata*, *E. tetradonta* tall open forest
- E5 - *C. nesophila*, *E. miniata* tall open forest (plateau lower footslope)
- E6 - *E. miniata*, *C. nesophila*, *C. latifolia* mid open forest
- E7a - *C. bleeseri*, *C. nesophila* mid woodland
- E7b - *E. miniata*, *C. bleeseri* mid woodland
- W1a - *Pandanus spiralis* mid sparse shrubland
- W1b - *Grevillea pteridifolia* low isolated tree over *Sorghum* spp. tall closed tussock grassland
- W2a - *Melaleuca viridiflora* and / or *M. nervosa* low open forest
- W2b - *Lophostemon lactifluus*, *Melaleuca viridiflora*, *Buchania obovata* low woodland
- W2c - *Melaleuca viridiflora* +/- *M. nervosa*, *Grevillea pteridifolia* low open woodland
- W2d - *Grevillea pteridifolia*, *G. heliosperma*, *Planchonia careya* low open woodland
- W3a - *Corymbia porrecta*, *Melaleuca nervosa* +/- *M. viridiflora*, *Grevillea pteridifolia* low open woodland
- C - cleared
- P - Plantation

Background - ESRI Satellite

Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 30 June 2021  
 Datum: WGS84



## 22 Appendix I: Threatened fauna locations, avoidance buffer recommendations and 'proposed gravel pit areas'



**Avoidance buffer recommendations and proposed gravel pit areas (Maps 1-4)**

- Key**
- Level 1 avoidance recommendations
  - Level 2 avoidance recommendations
  - Map areas
  - Proposed gravel pit area
  - Potential gravel pit survey areas
  - Existing bores 100 m buffer
  - Water points 100 m buffer
  - Road realignment
  - Threatened fauna detections
  - Typhonium jonesii
  - Typhonium mirabile
- Vegetation communities**
- E1 - E. miniata, E. tetradonta, C. nesophila tall open forest
  - E2 - C. nesophila, E. miniata tall open forest (on edge of plateau)
  - E3 - E. tetradonta and E. miniata mid sparse to open woodland
  - E4 - E. miniata, E. tetradonta tall open forest
  - E5 - C. nesophila, E. miniata tall open forest (plateau lower footslope)
  - E6 - E. miniata, C. nesophila, C. latifolia mid open forest
  - E7a - C. bleeseri, C. nesophila mid woodland
  - E7b - E. miniata, C. bleeseri mid woodland
  - W1a - Pandanus spiralis mid sparse shrubland
  - W1b - Grevillea pteridifolia low isolated tree over Sorghum spp. tall closed tussock grassland
  - W2a - Melaleuca viridiflora and / or M. nervosa low open forest
  - W2b - Lophostemon lactifluus, Melaleuca viridiflora, Buchanania obovata low woodland
  - W2c - Melaleuca viridiflora +/- M. nervosa, Grevillea pteridifolia low open woodland
  - W2d - Grevillea pteridifolia, G. heliosperma, Planchonia careya low open woodland
  - W3a - Corymbia porrecta, Melaleuca nervosa +/- M. viridiflora, Grevillea pteridifolia low open woodland
  - C - cleared
- Background - ESRI Satellite**
- Project Name: Tiwi Islands Biodiversity Surveys (2020-030)  
 Client: GHD  
 Date: 19 October 2021  
 Datum: WGS84

