

**COMMONWEALTH OF THE
NORTHERN MARIANA ISLANDS**

**COMPREHENSIVE
PUBLIC LAND USE PLAN UPDATE
GIS MAP BOOK**

PREPARED FOR:
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and

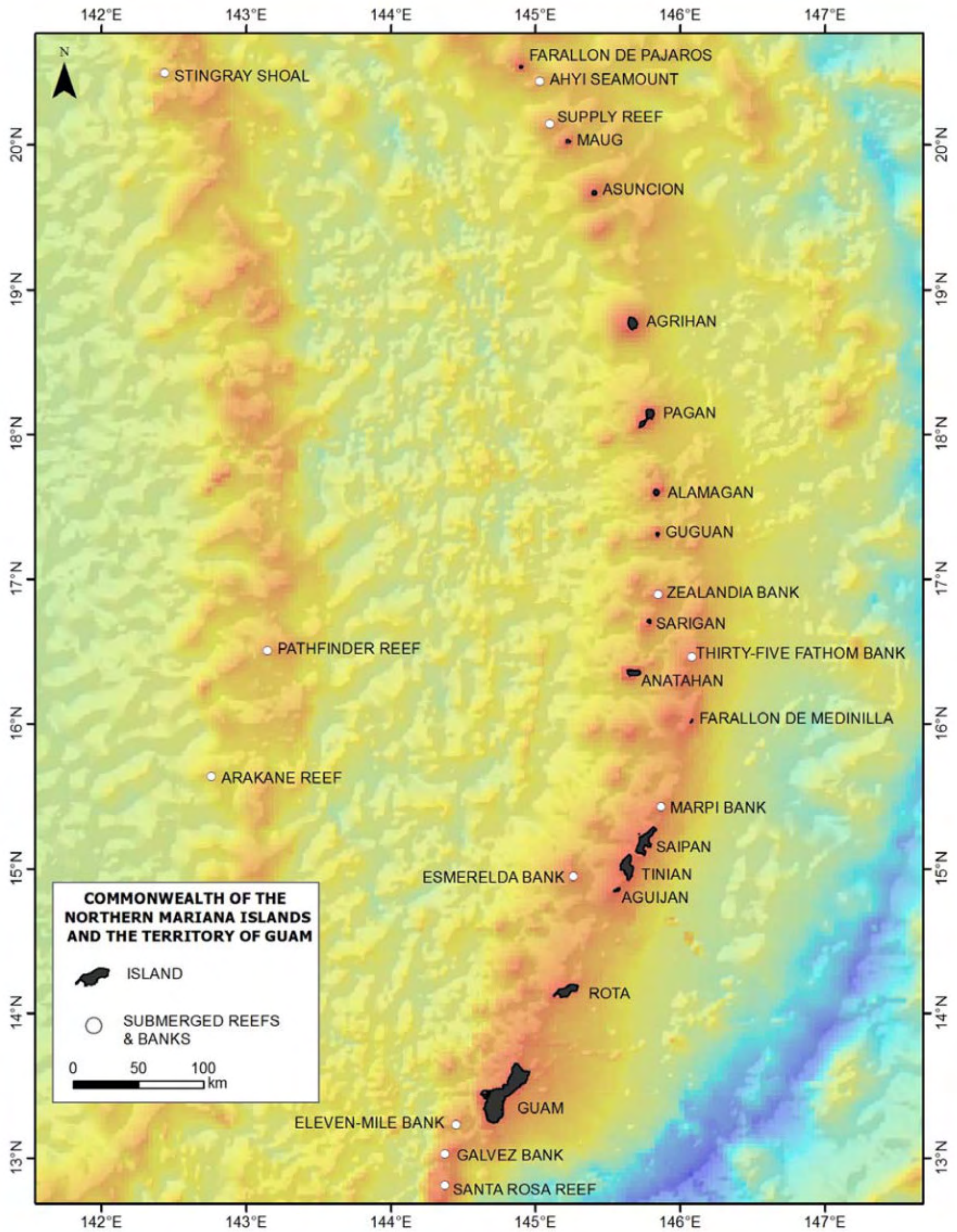
Chris Hart & Partners, Inc.
115 North Market Street
Wailuku, Hawaii, 96793-1717

February 2018

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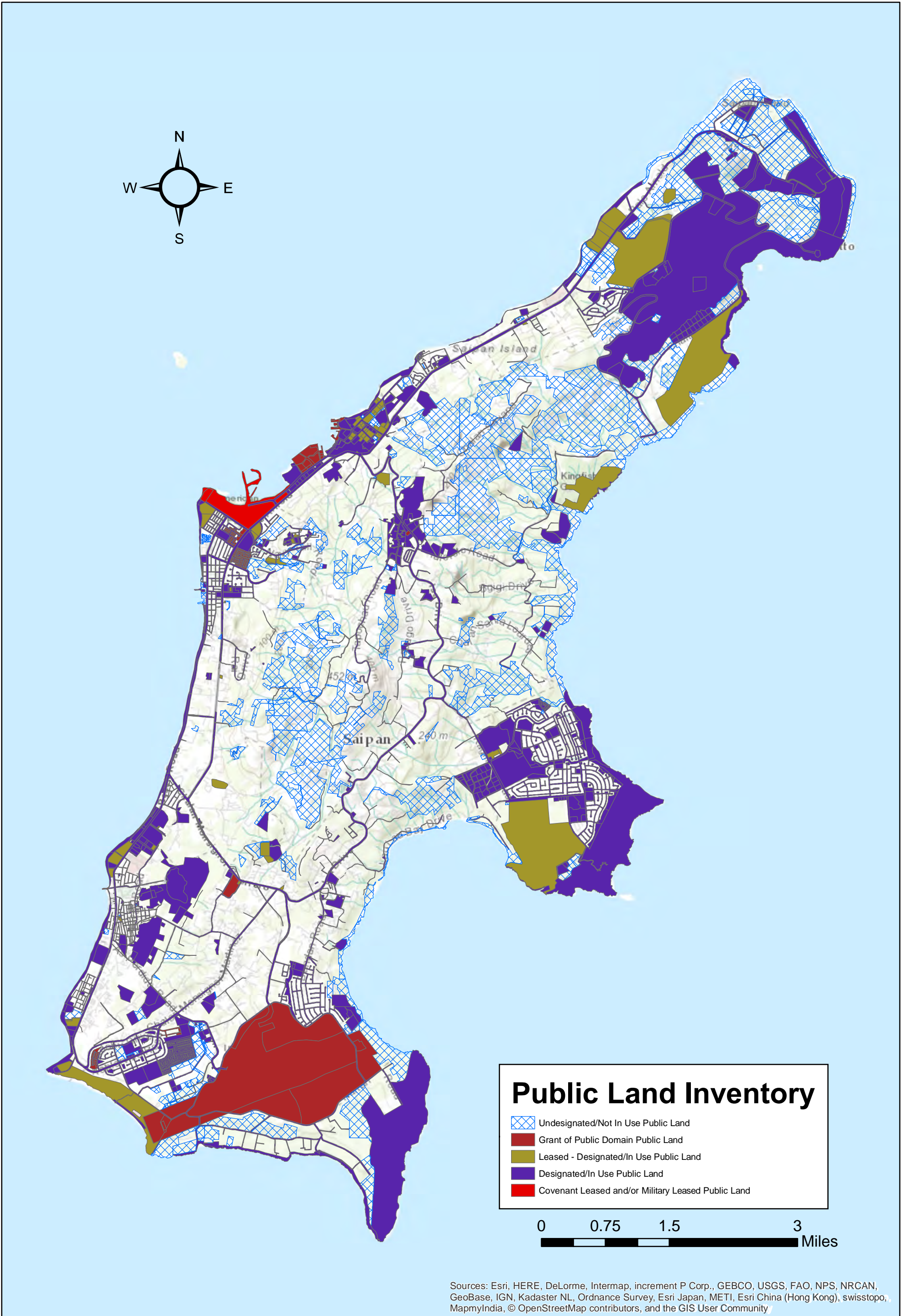
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COMMONWEALTH OF THE MARIANA ISLANDS

FIGURE 1



SAIPAN MAPS

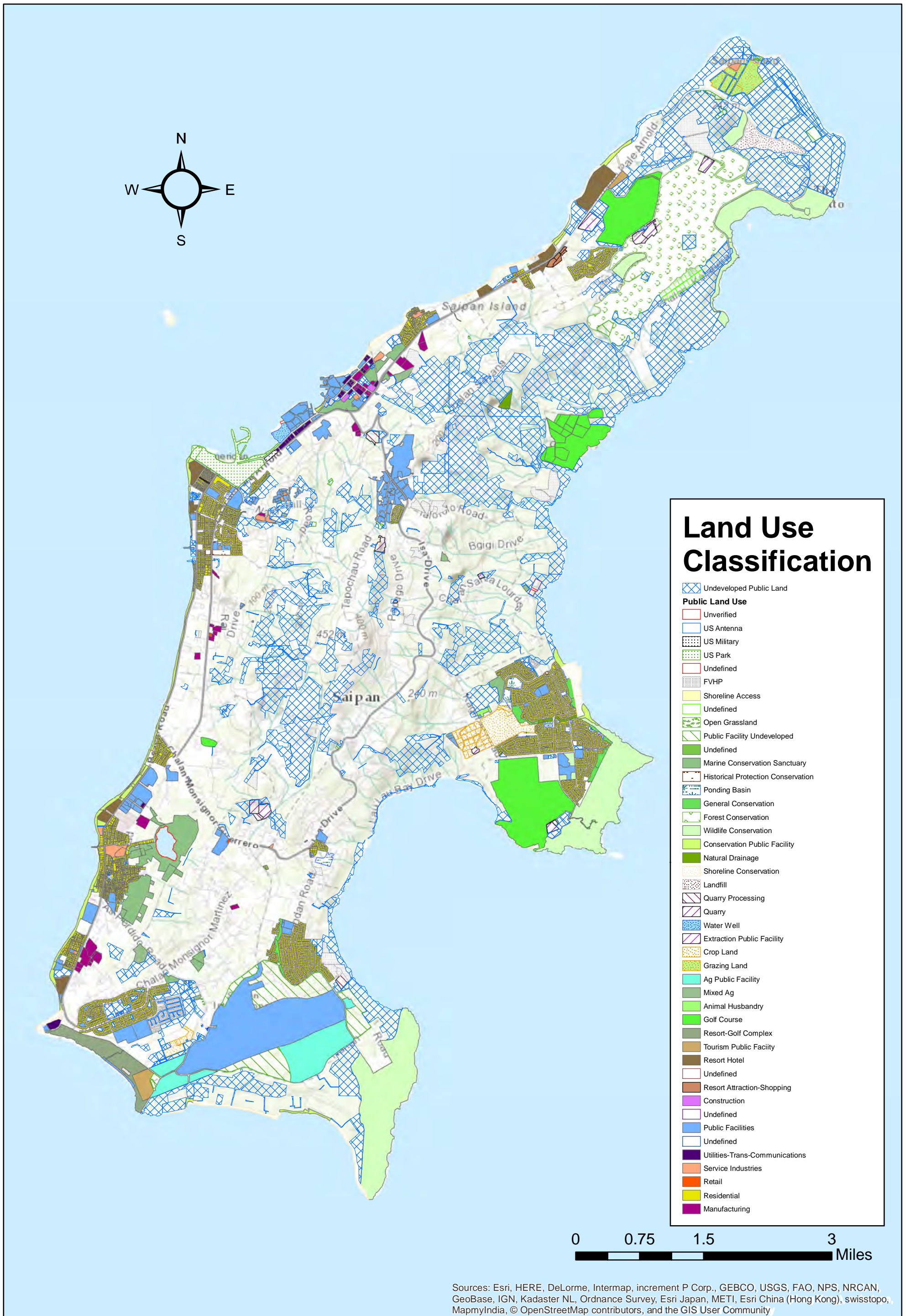


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FIGURE S-1



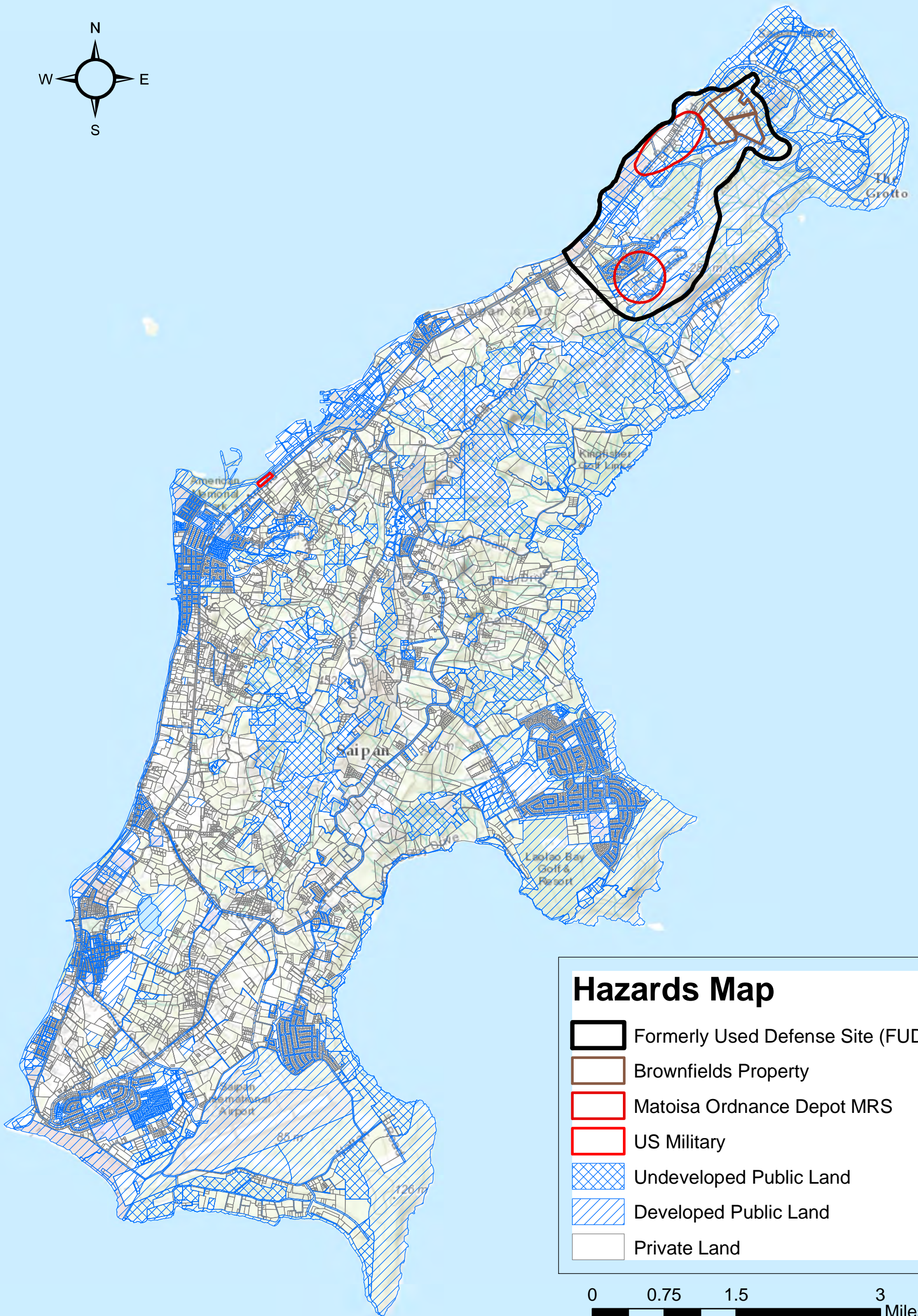
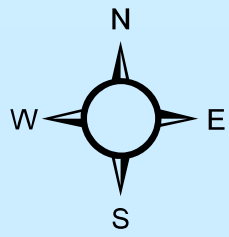
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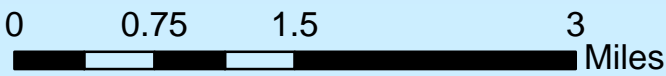
FIGURE S-2





Hazards Map

- Formerly Used Defense Site (FUDS)
- Brownfields Property
- Matoisa Ordnance Depot MRS
- US Military
- Undeveloped Public Land
- Developed Public Land
- Private Land

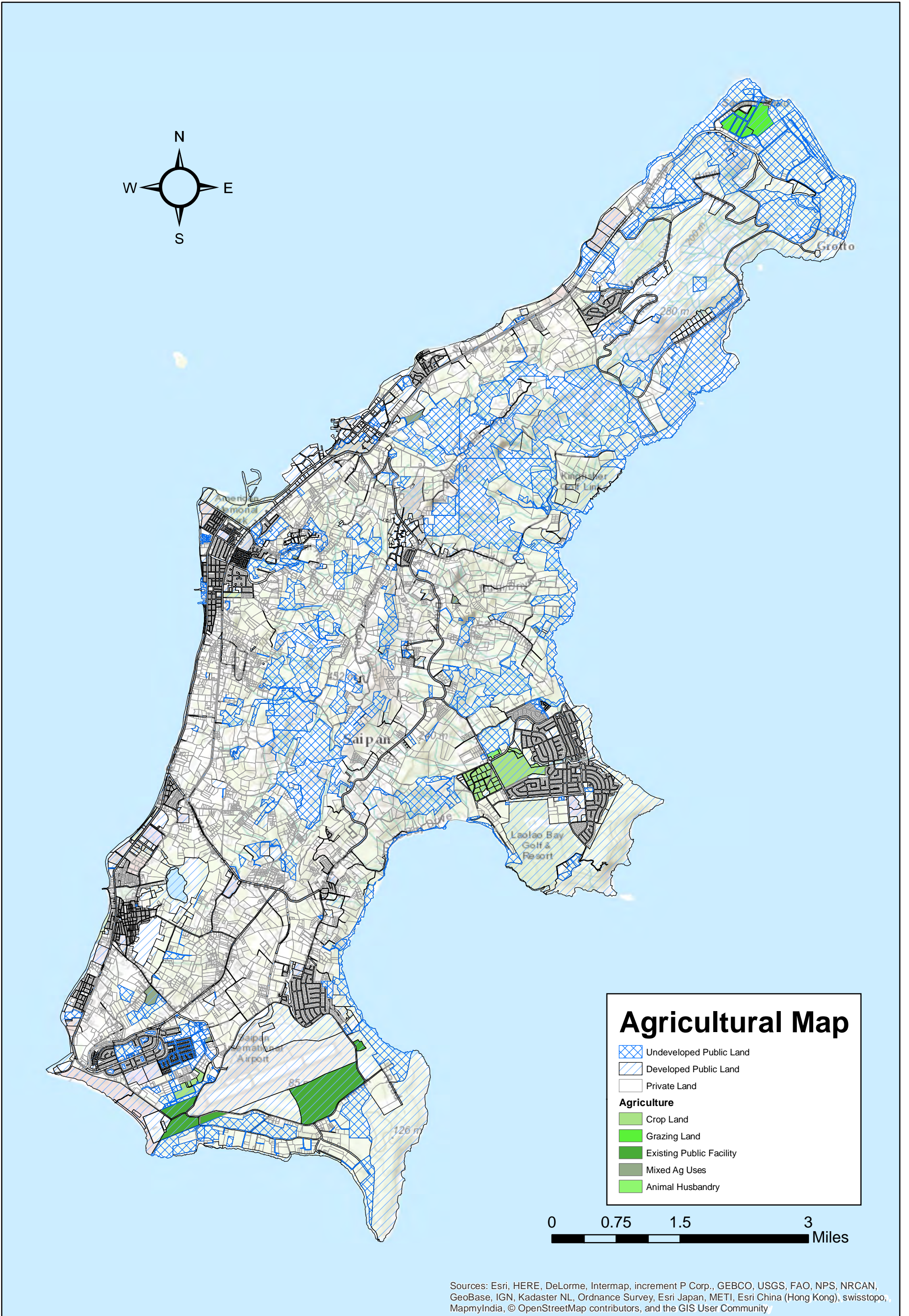


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FIGURE S-3





Agricultural Map

- Undeveloped Public Land
- Developed Public Land
- Private Land

Agriculture

- Crop Land
- Grazing Land
- Existing Public Facility
- Mixed Ag Uses
- Animal Husbandry

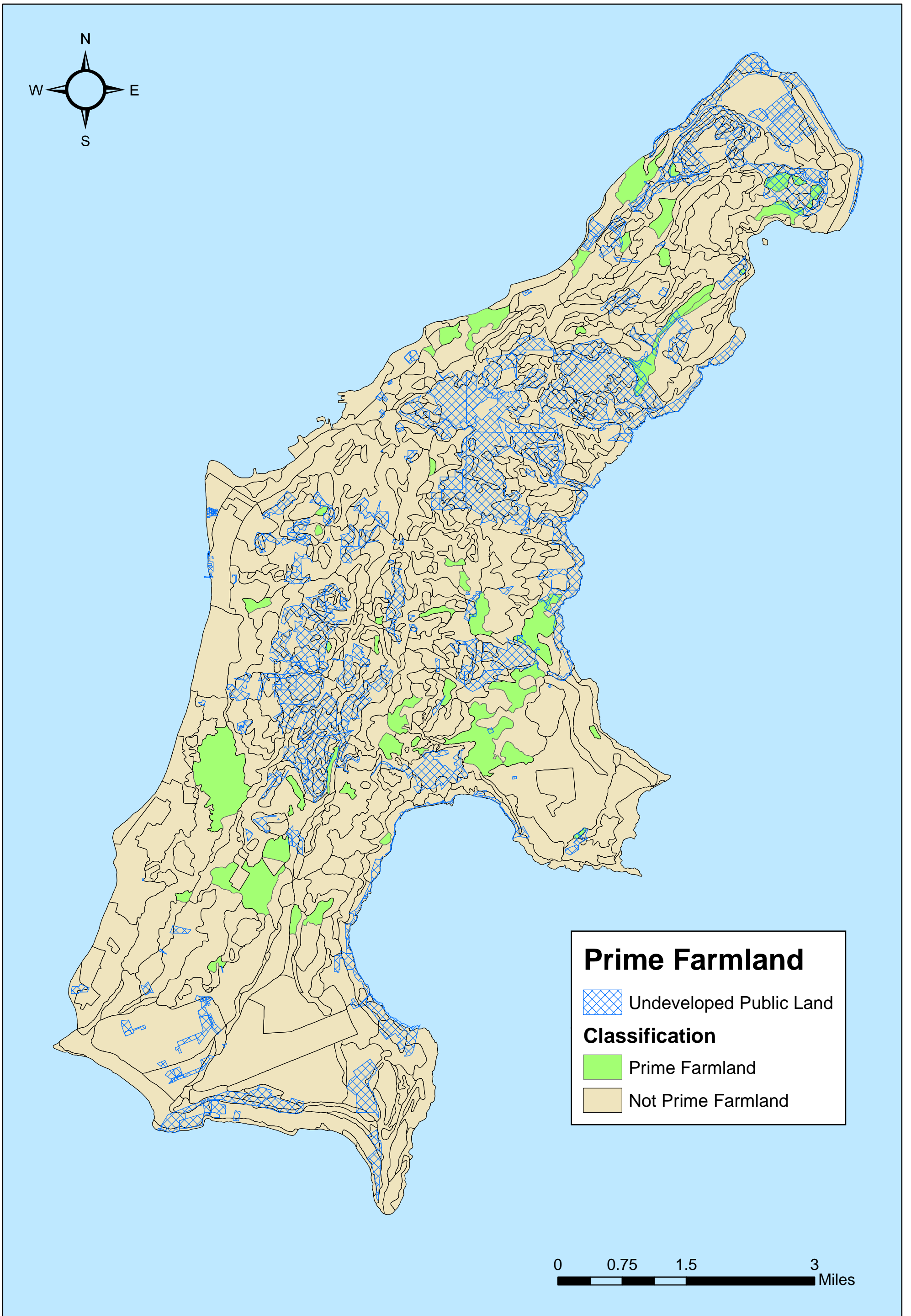
0 0.75 1.5 3
 Miles

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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FIGURE S-4

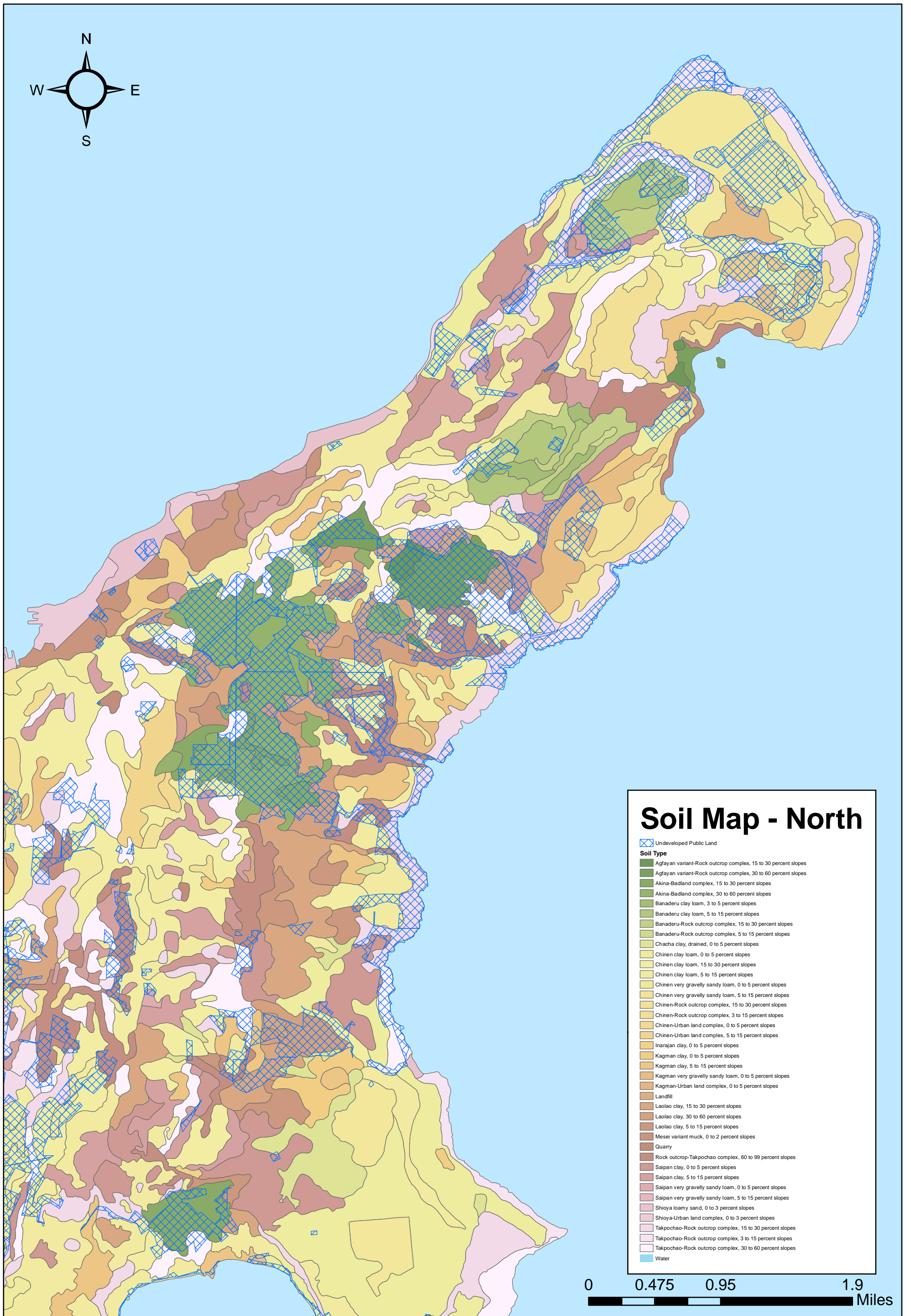




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FIGURE S-5

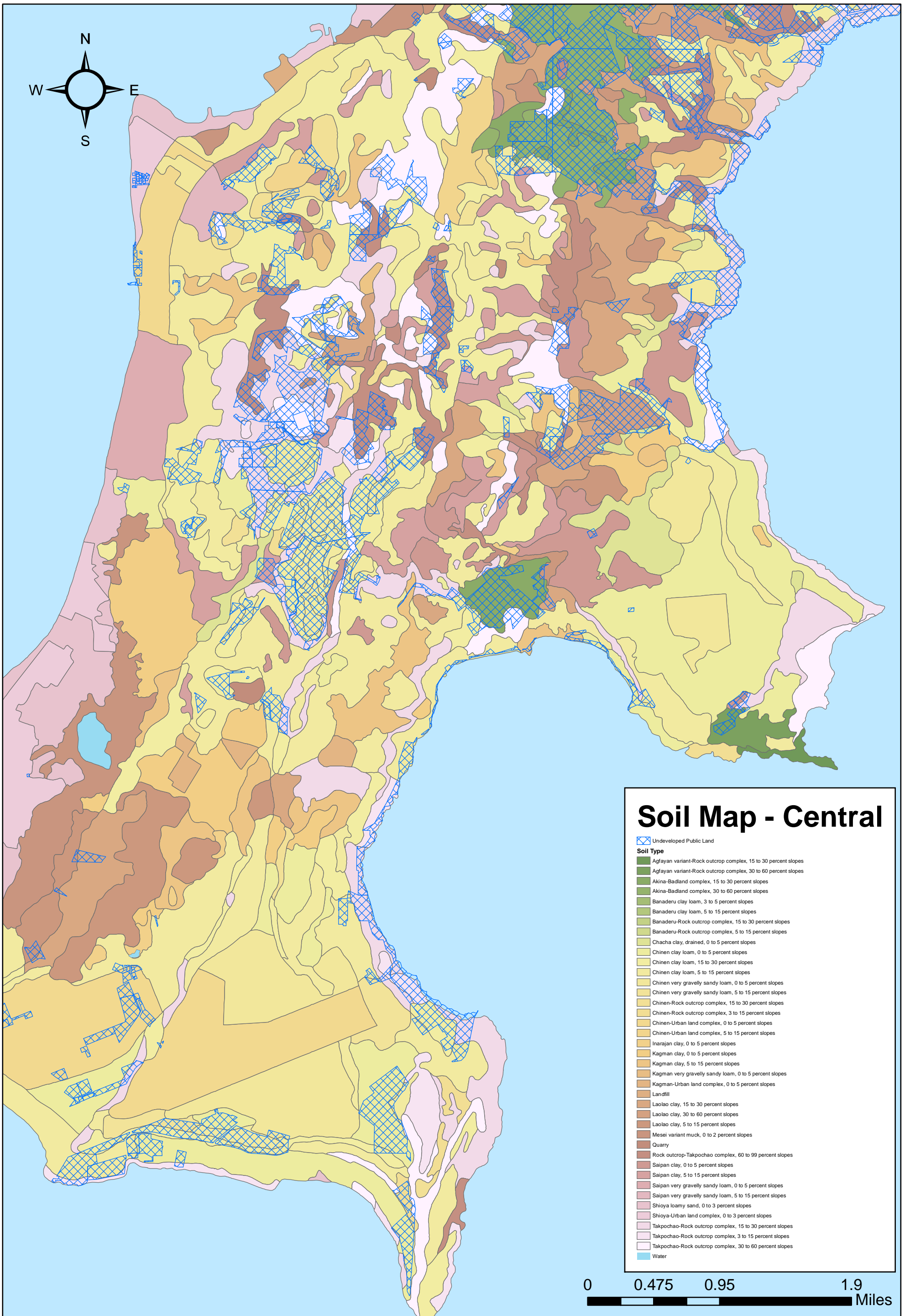




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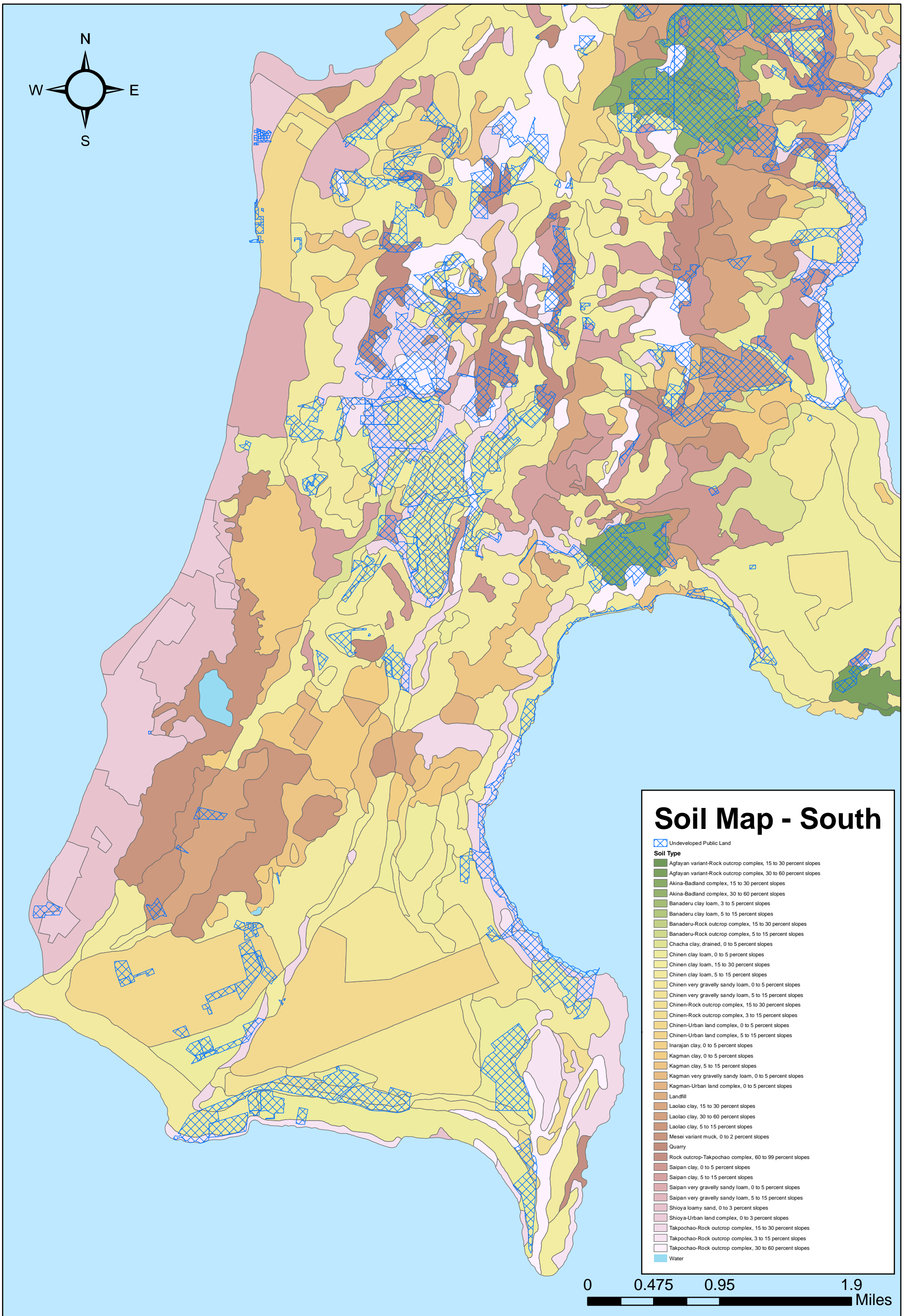




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FIGURE S-6.2

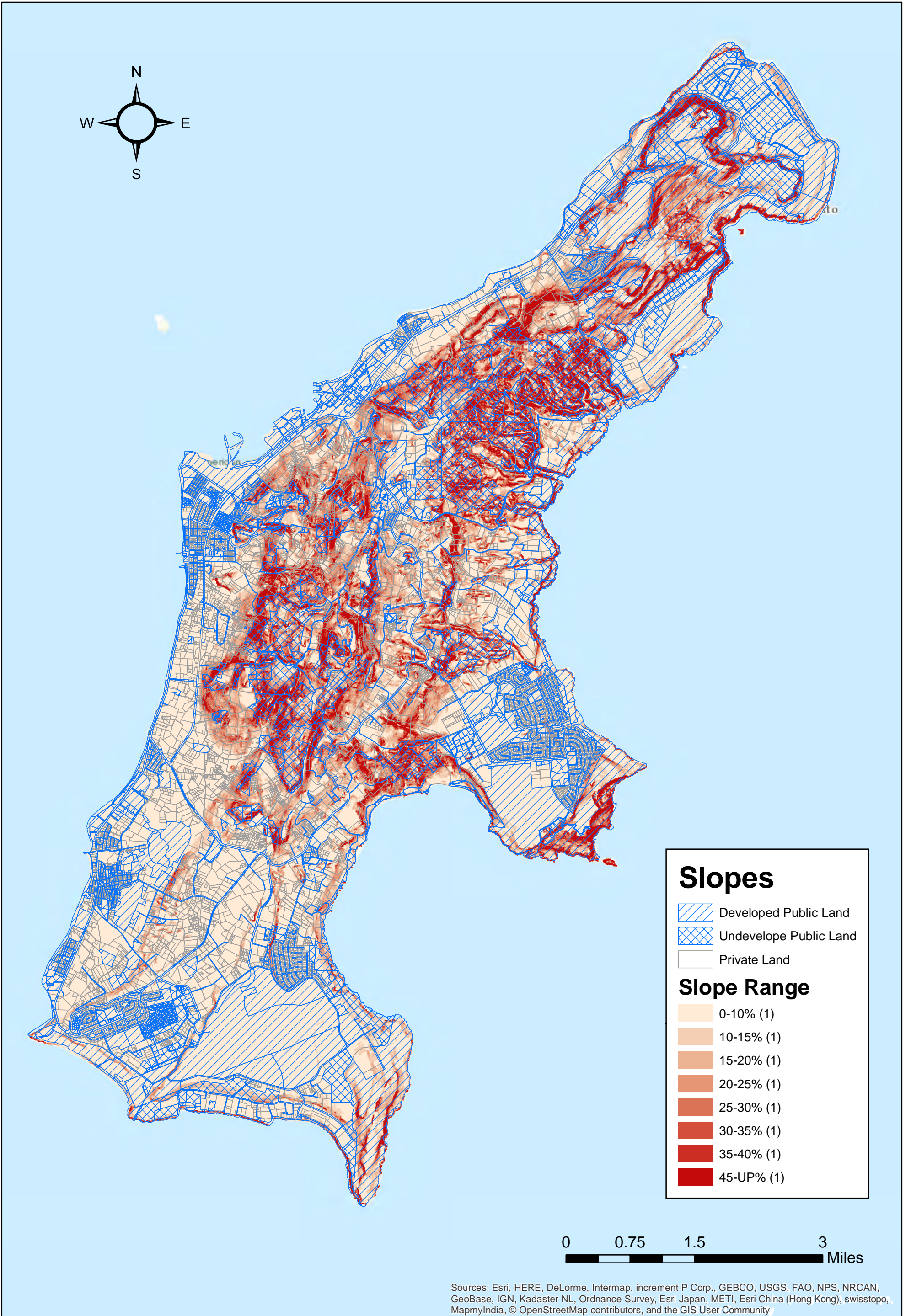




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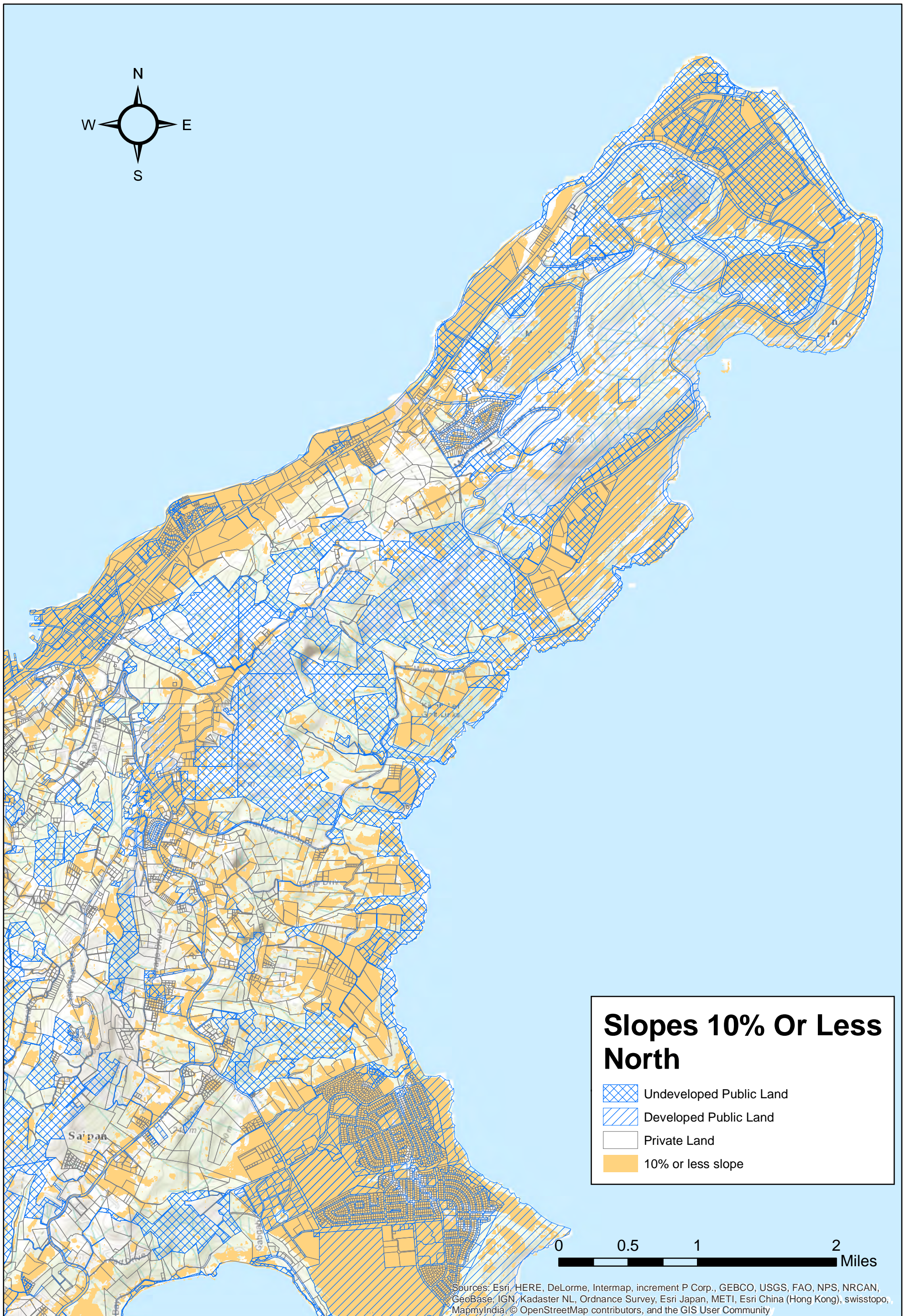




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FIGURE S-7.1

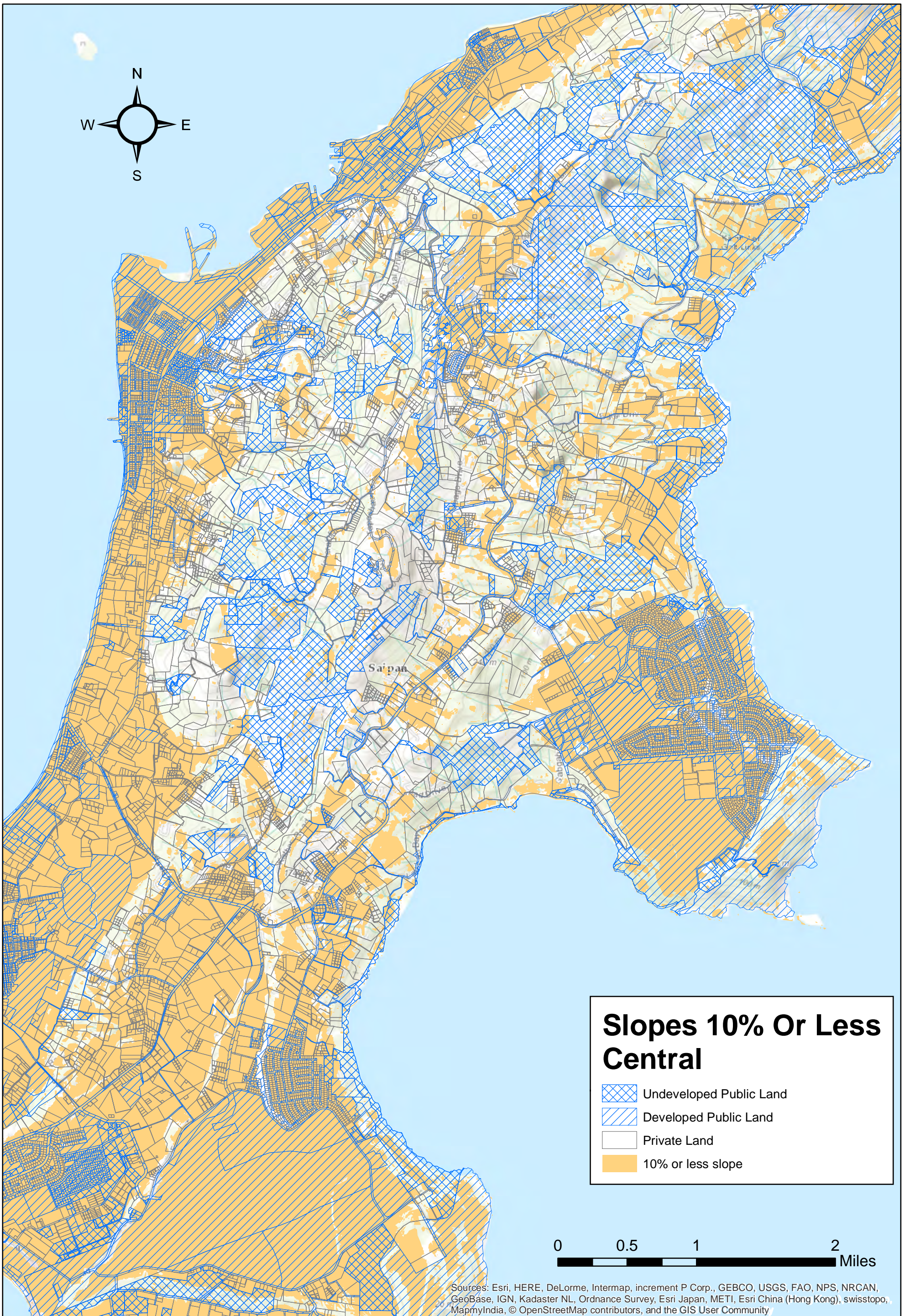




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FIGURE S-7.2



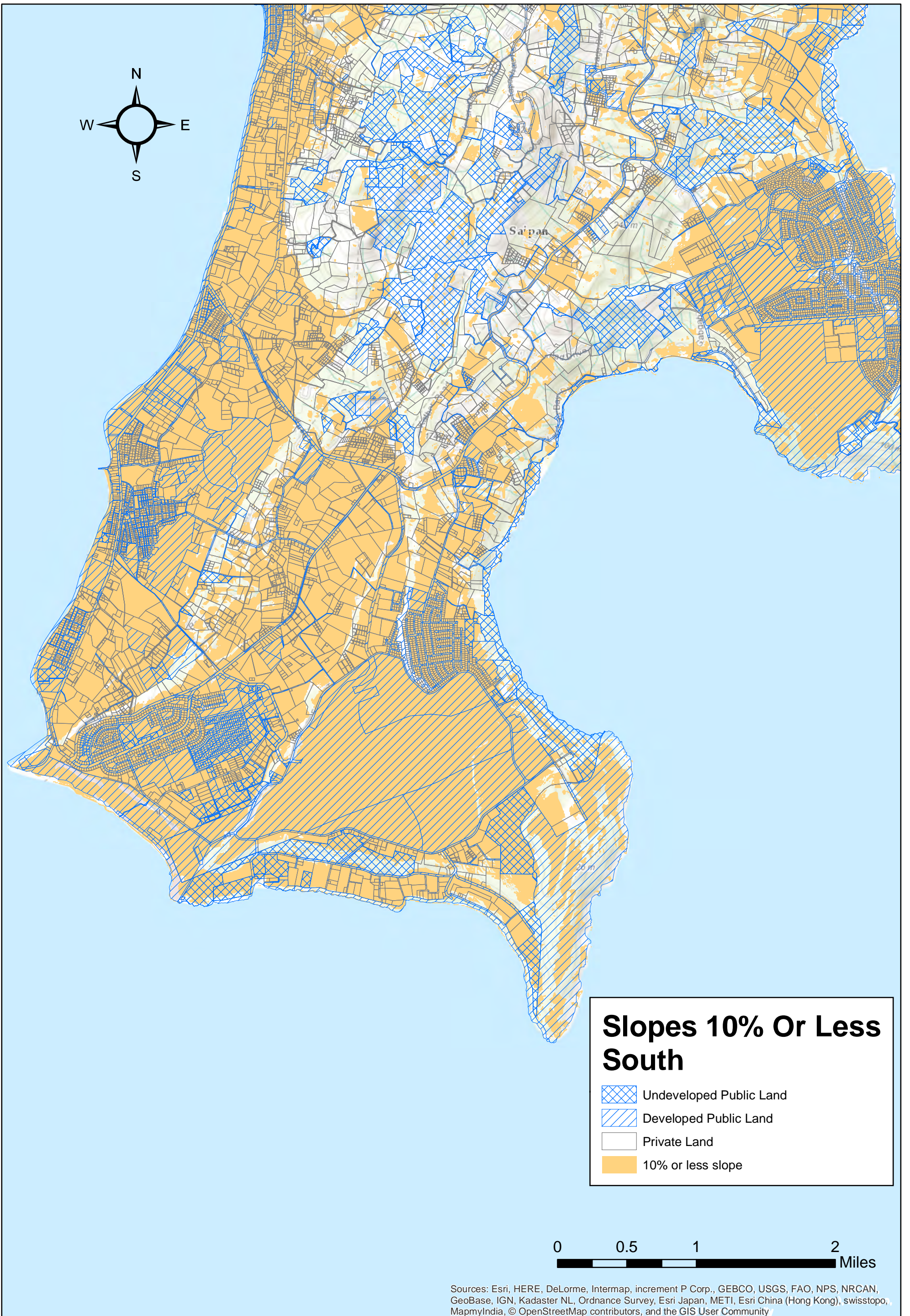


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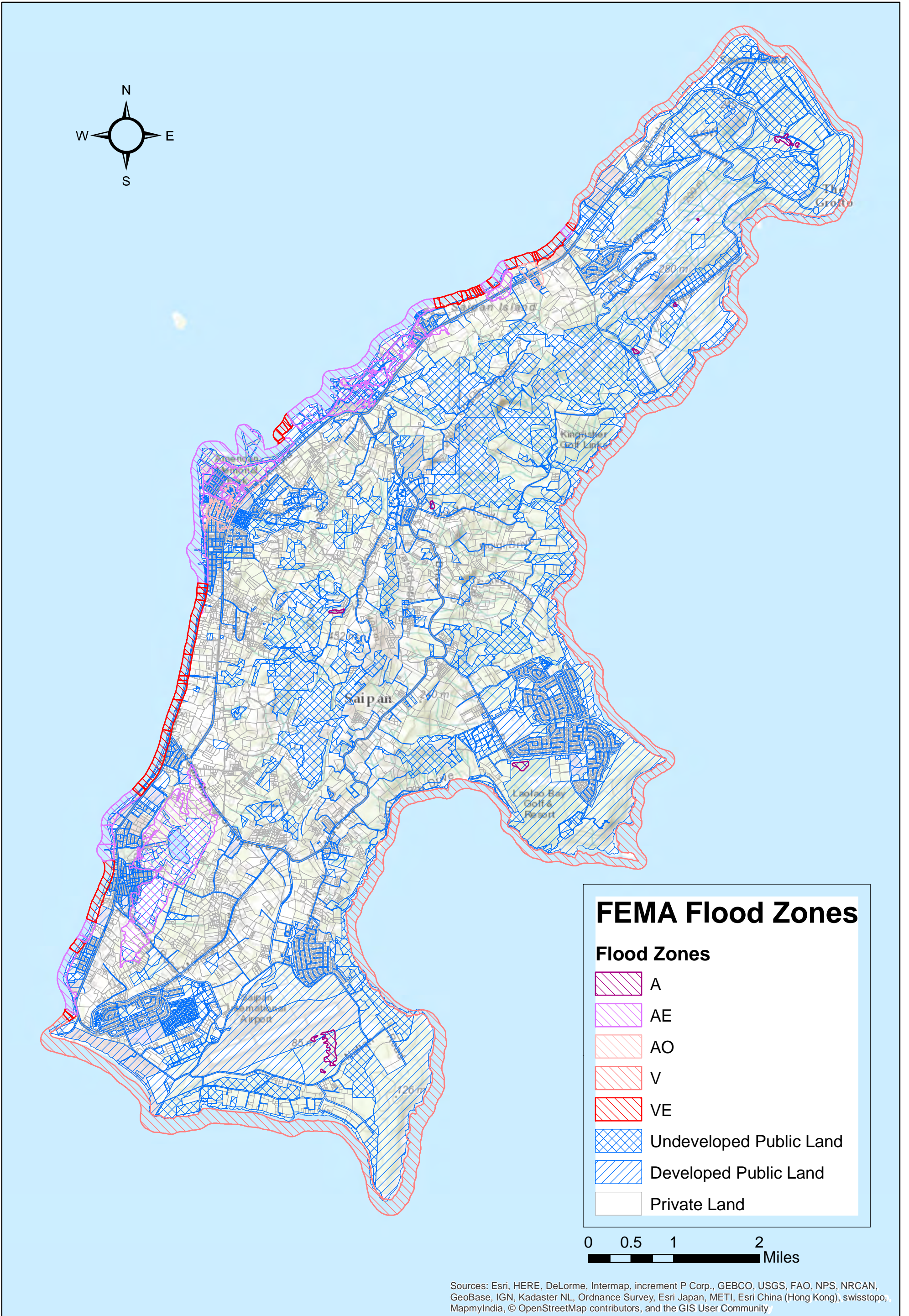




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FIGURE S-7.4

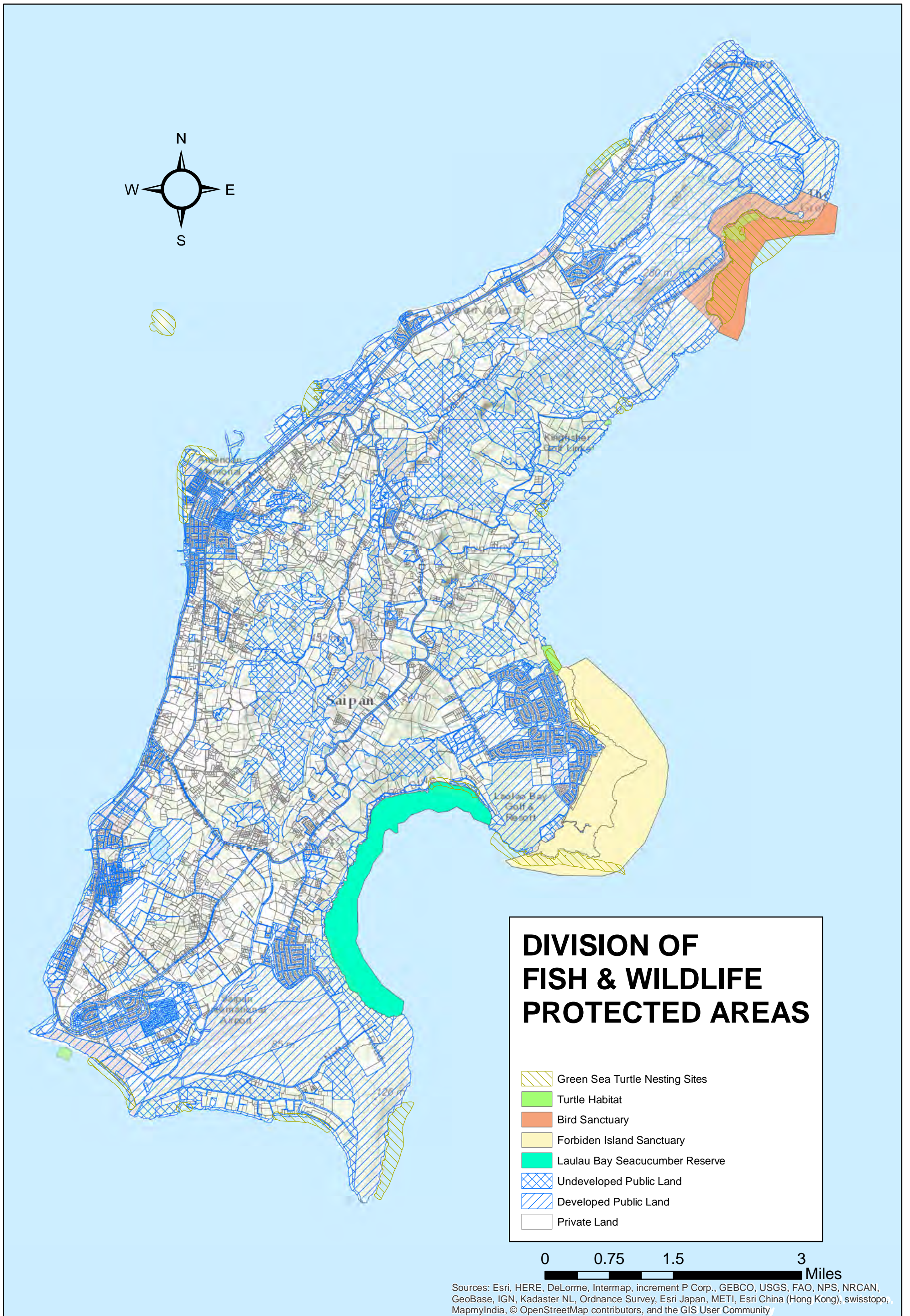




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FIGURE S-8

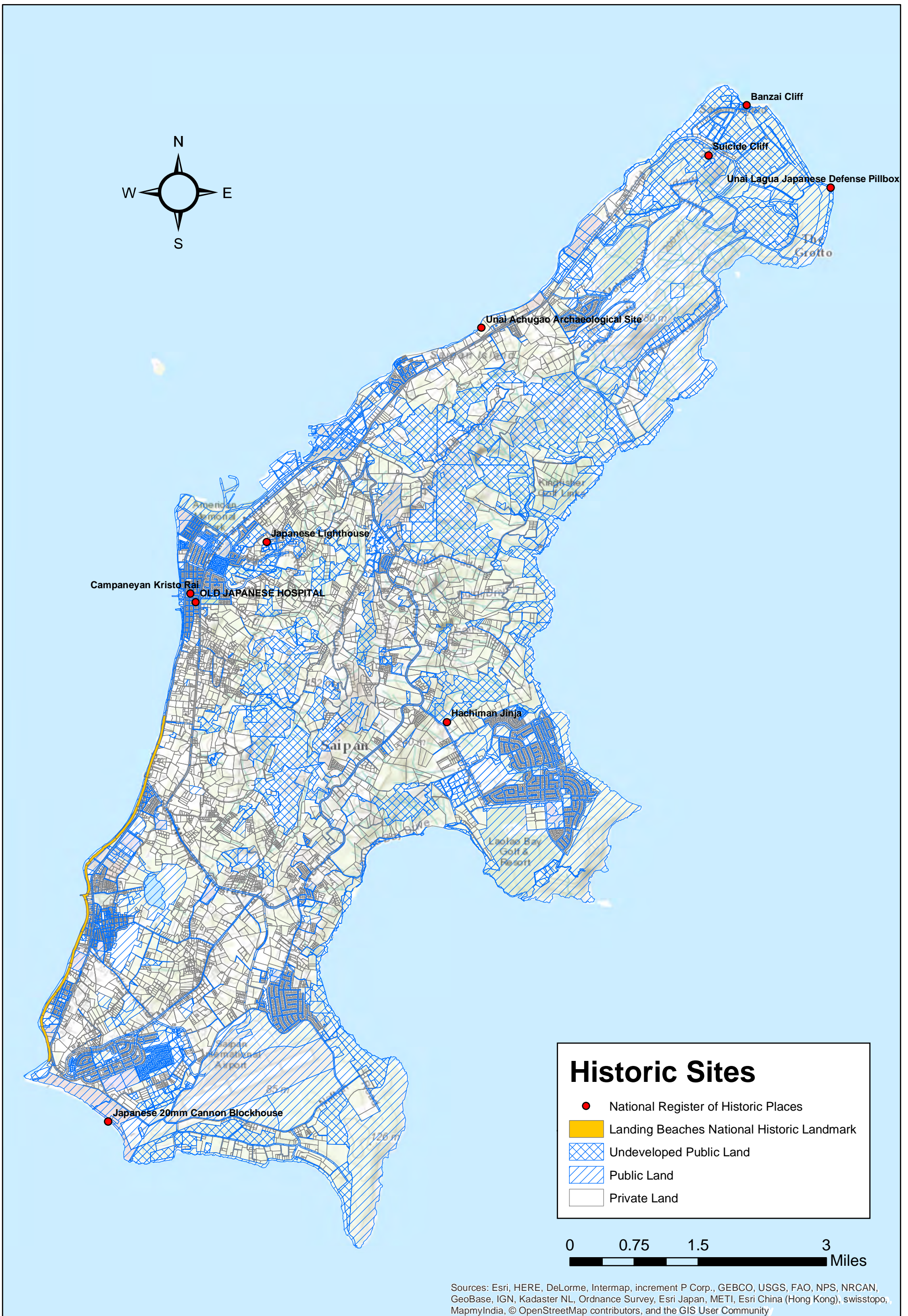




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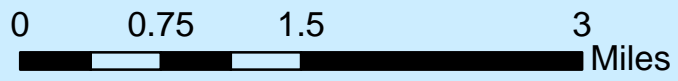
FIGURE S-9





Historic Sites

- National Register of Historic Places
- Landing Beaches National Historic Landmark
- ▨ Undeveloped Public Land
- ▧ Public Land
- Private Land

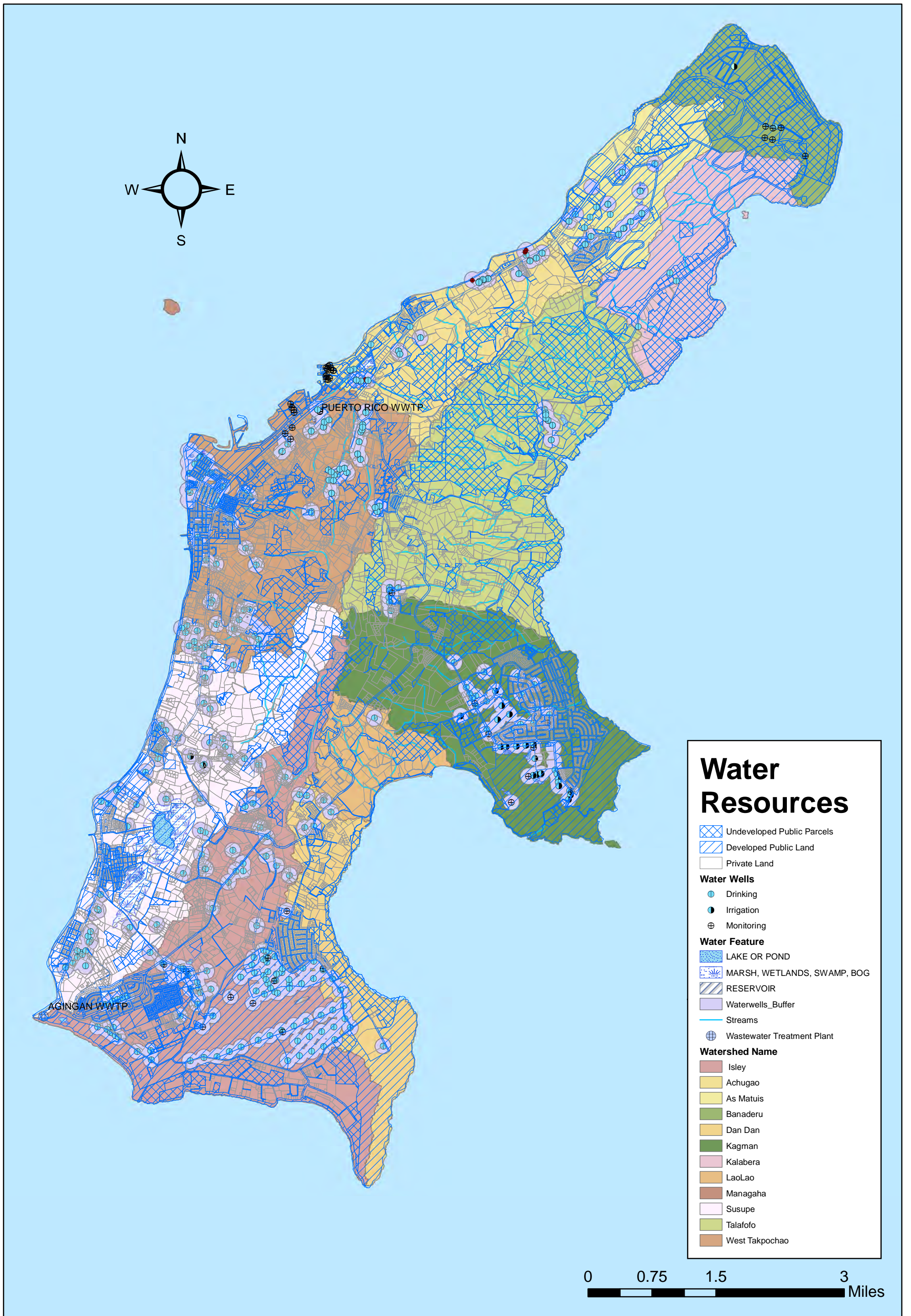


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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FIGURE S-10

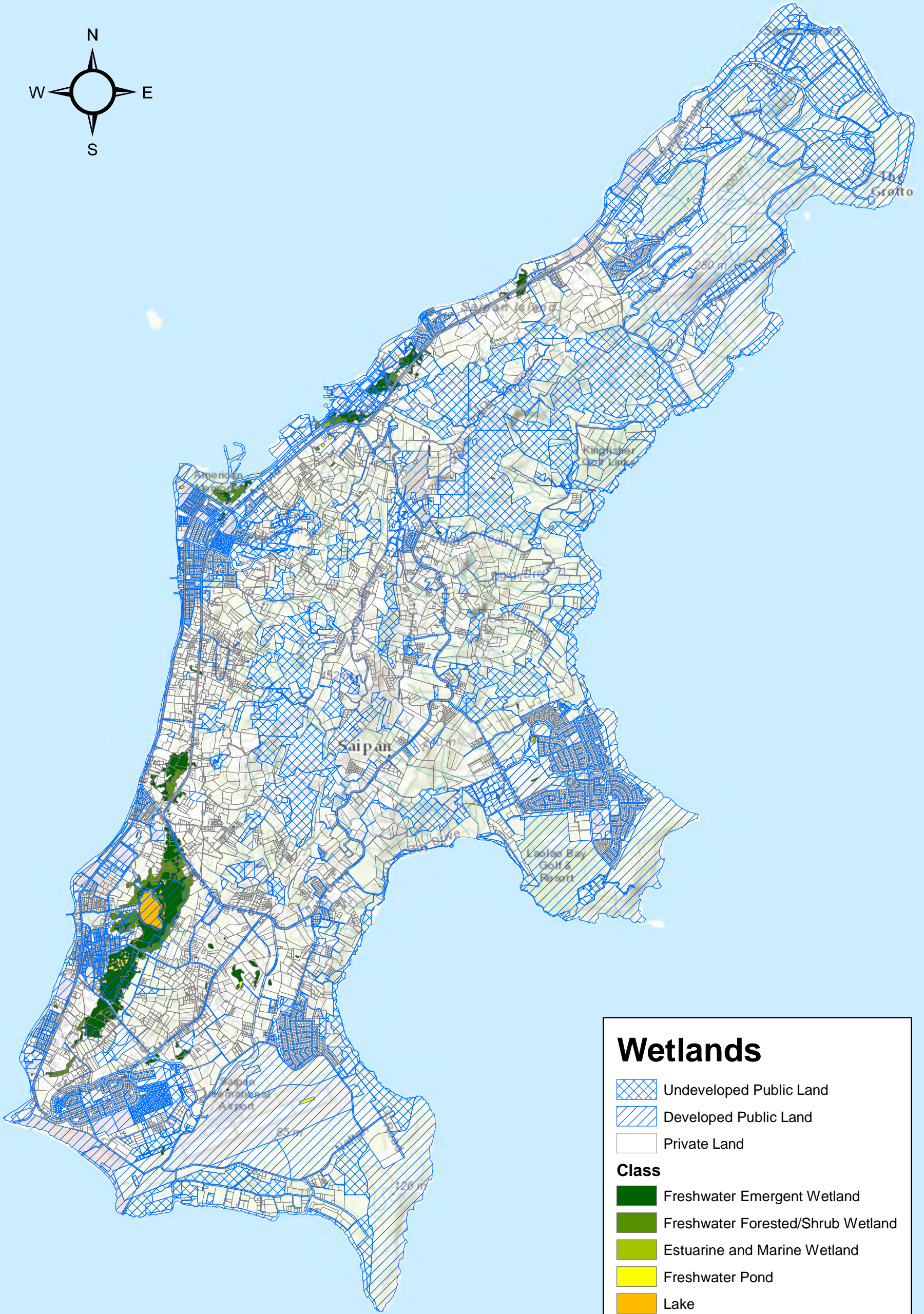
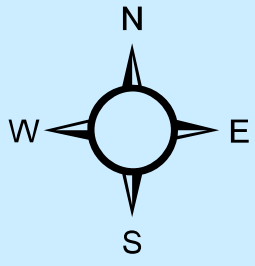




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FIGURE S-11





Wetlands

- Undeveloped Public Land
- Developed Public Land
- Private Land

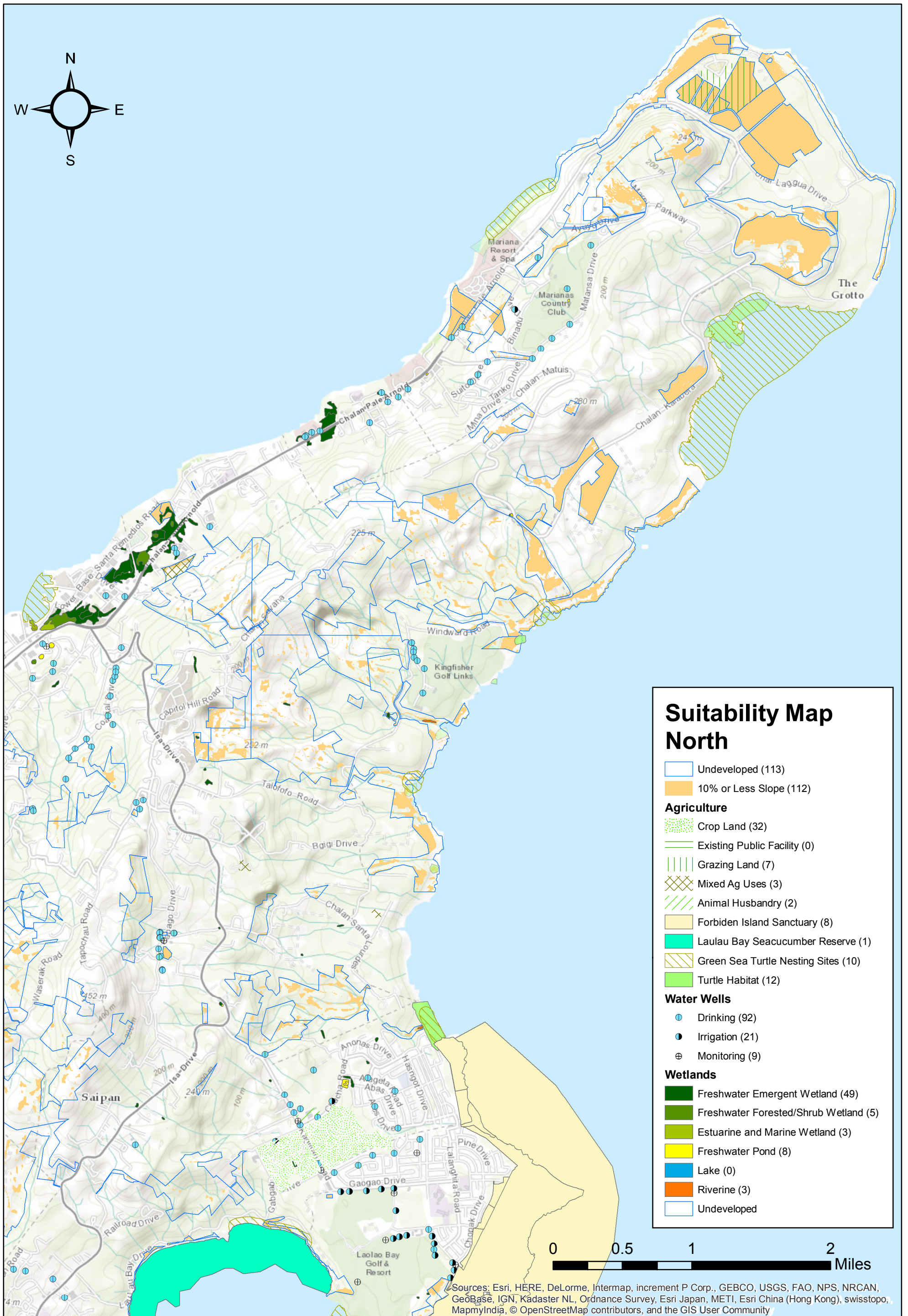
Class

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Estuarine and Marine Wetland
- Freshwater Pond
- Lake
- Riverine

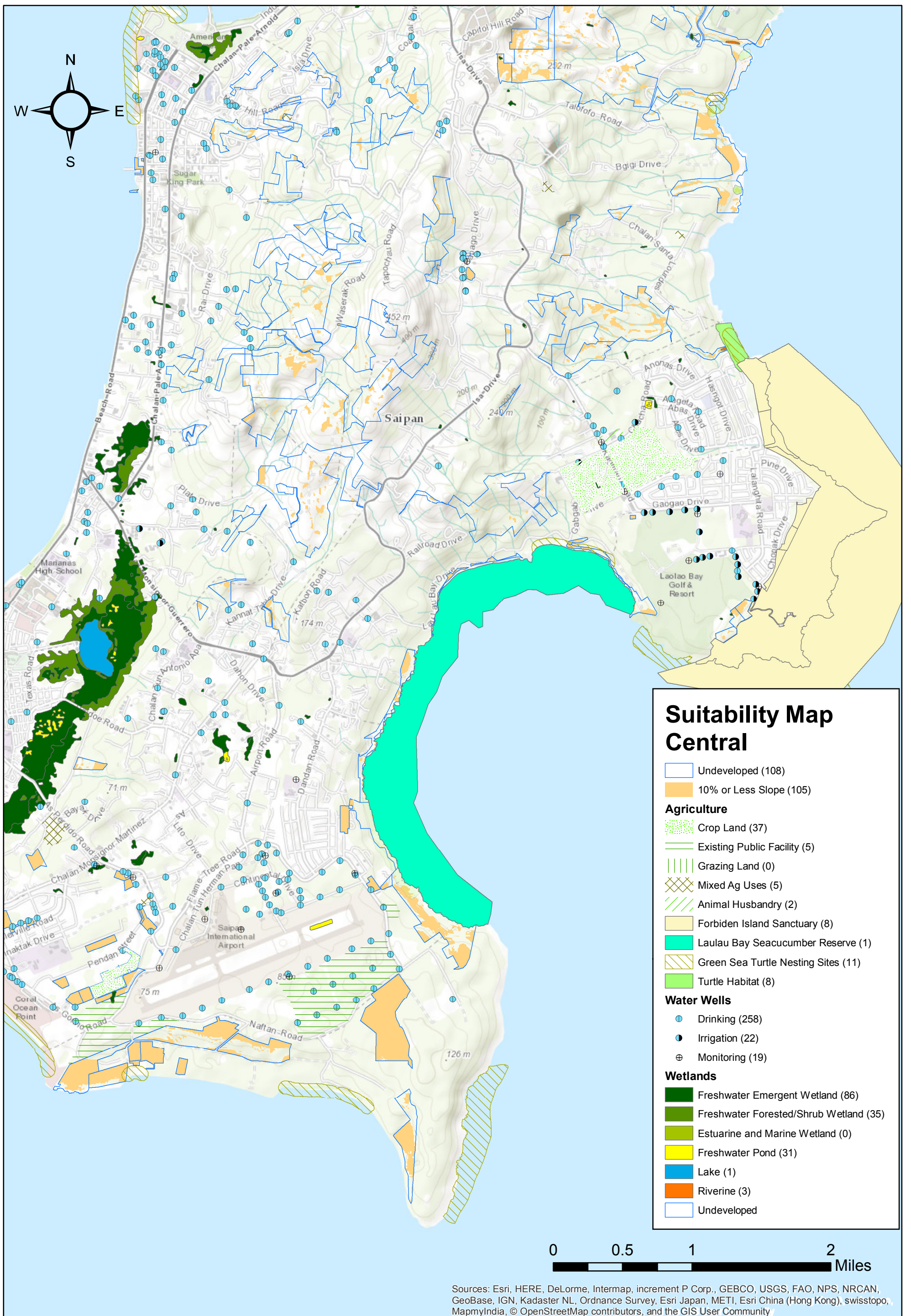
0 0.75 1.5 3 Miles

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community





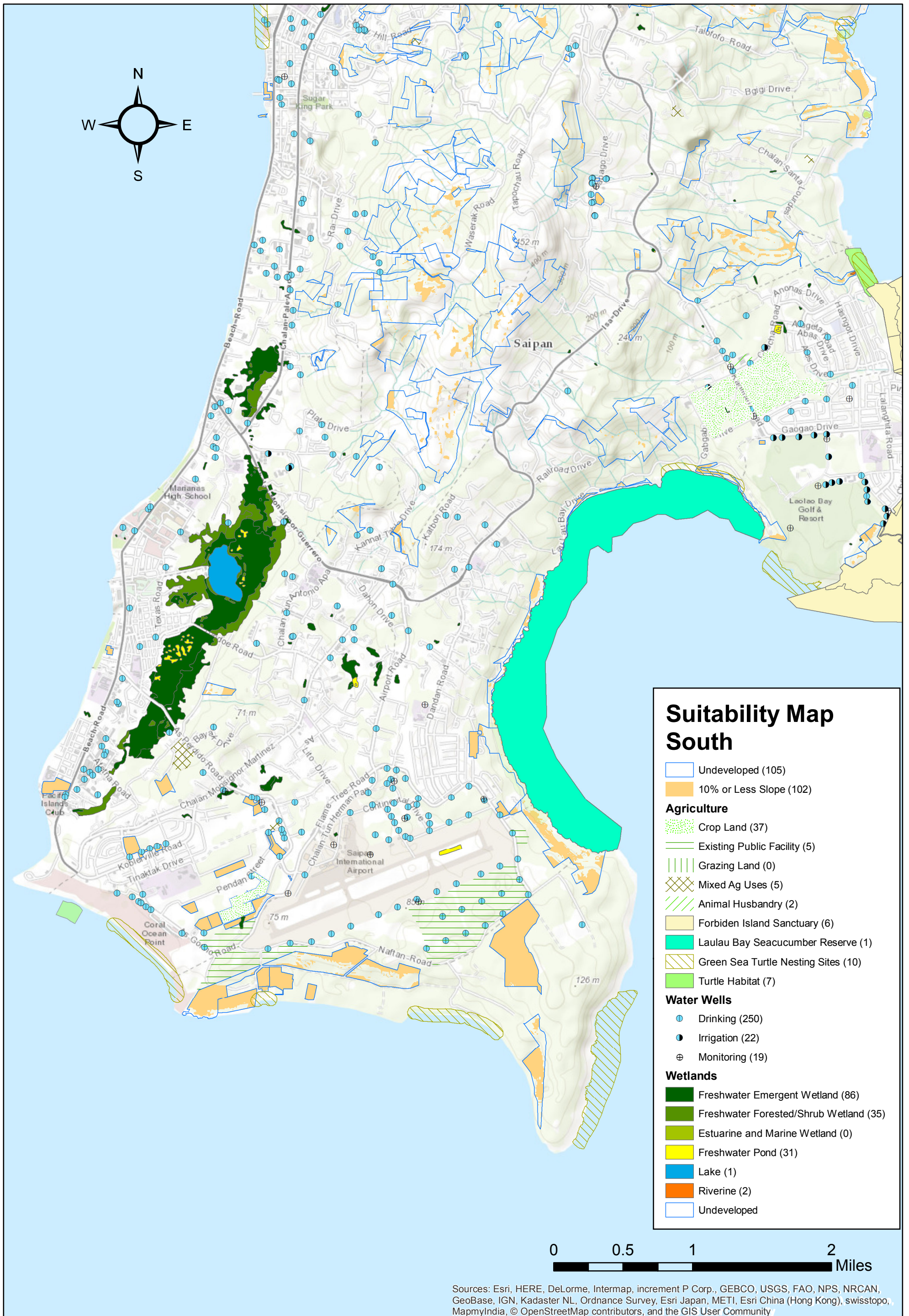
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FIGURE S-% "&

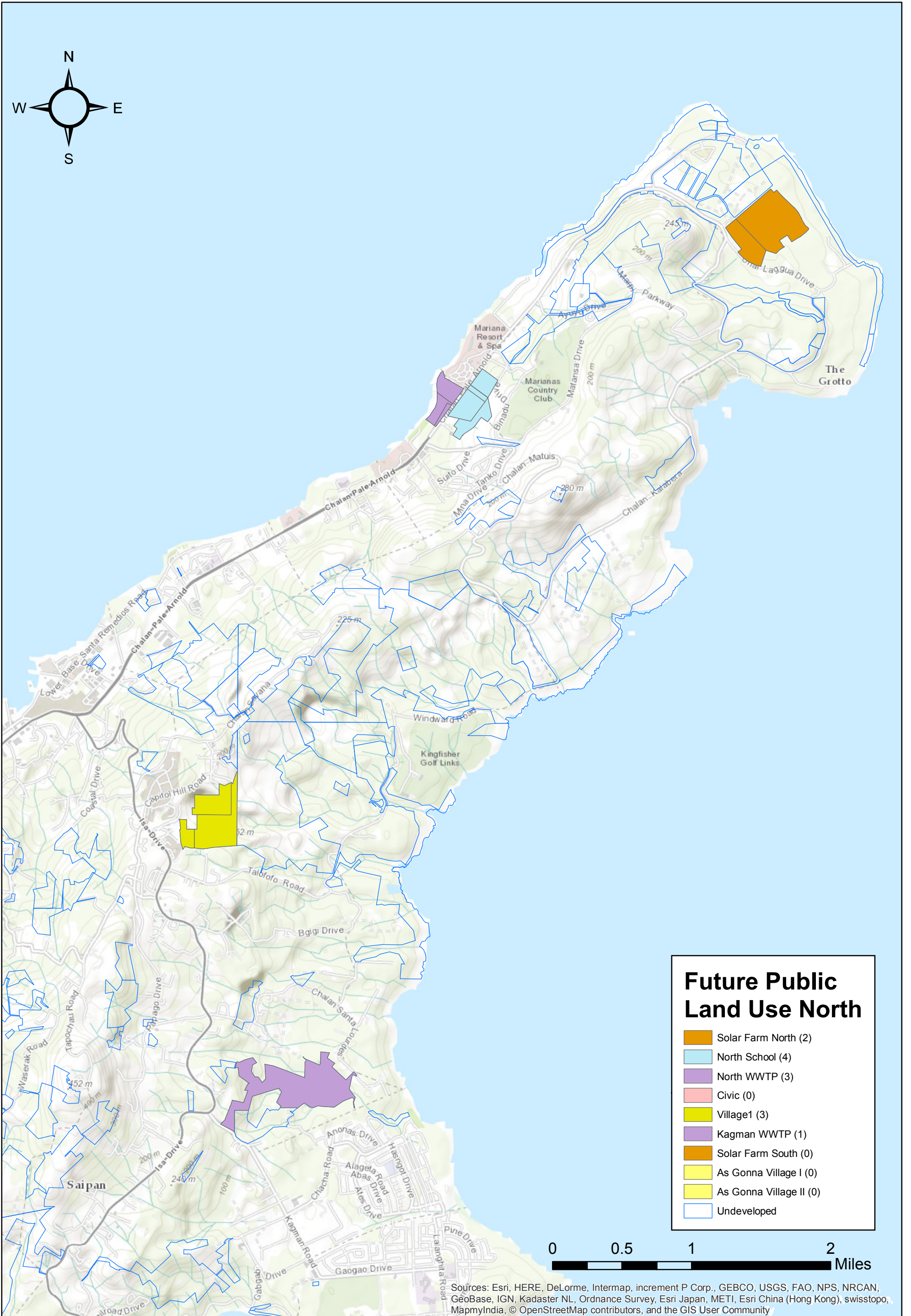




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FIGURE S-% "





Future Public Land Use North

- Solar Farm North (2)
- North School (4)
- North WWTP (3)
- Civic (0)
- Village1 (3)
- Kagman WWTP (1)
- Solar Farm South (0)
- As Gonna Village I (0)
- As Gonna Village II (0)
- Undeveloped

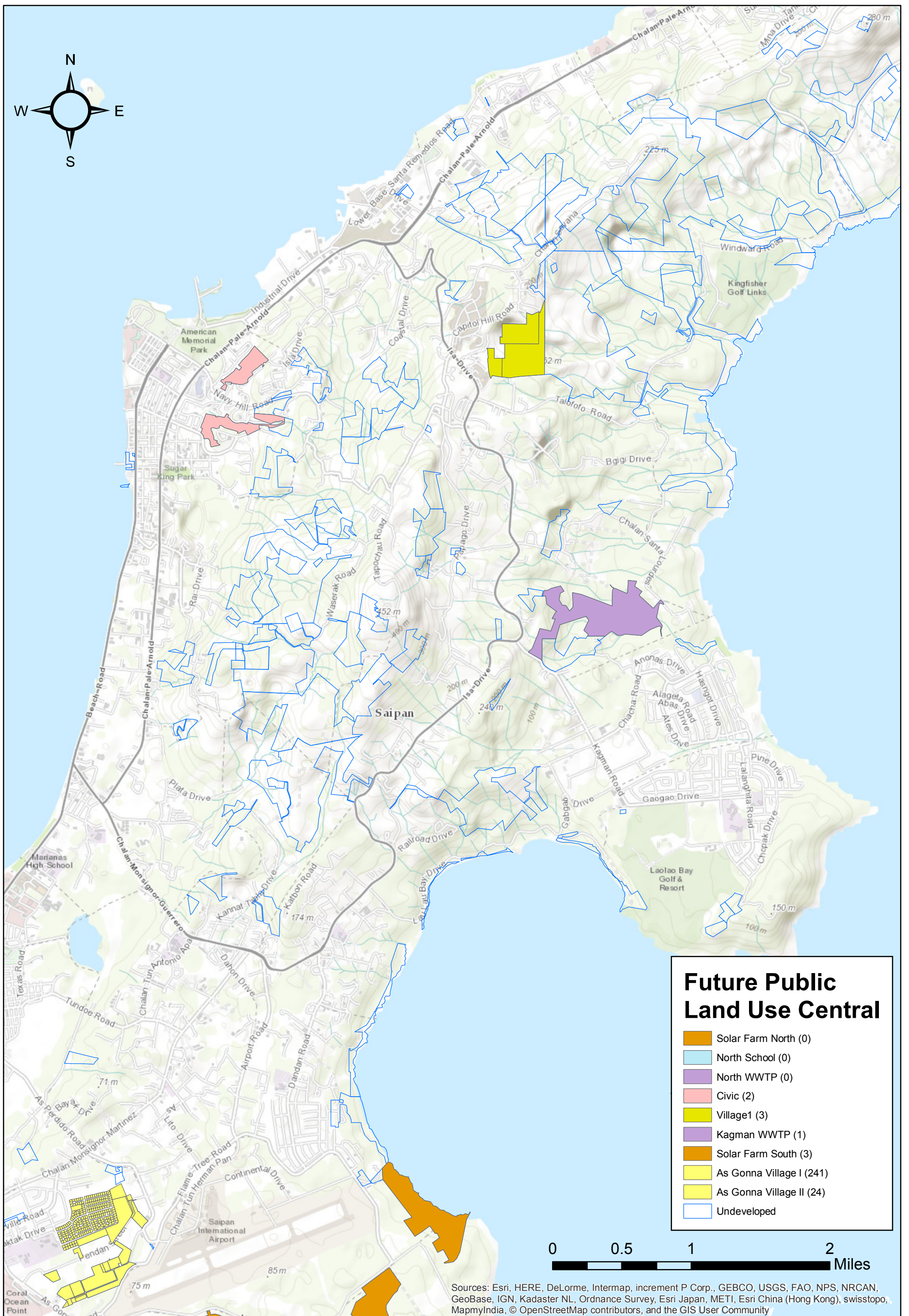
0 0.5 1 2
Miles

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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FIGURE S-14.1



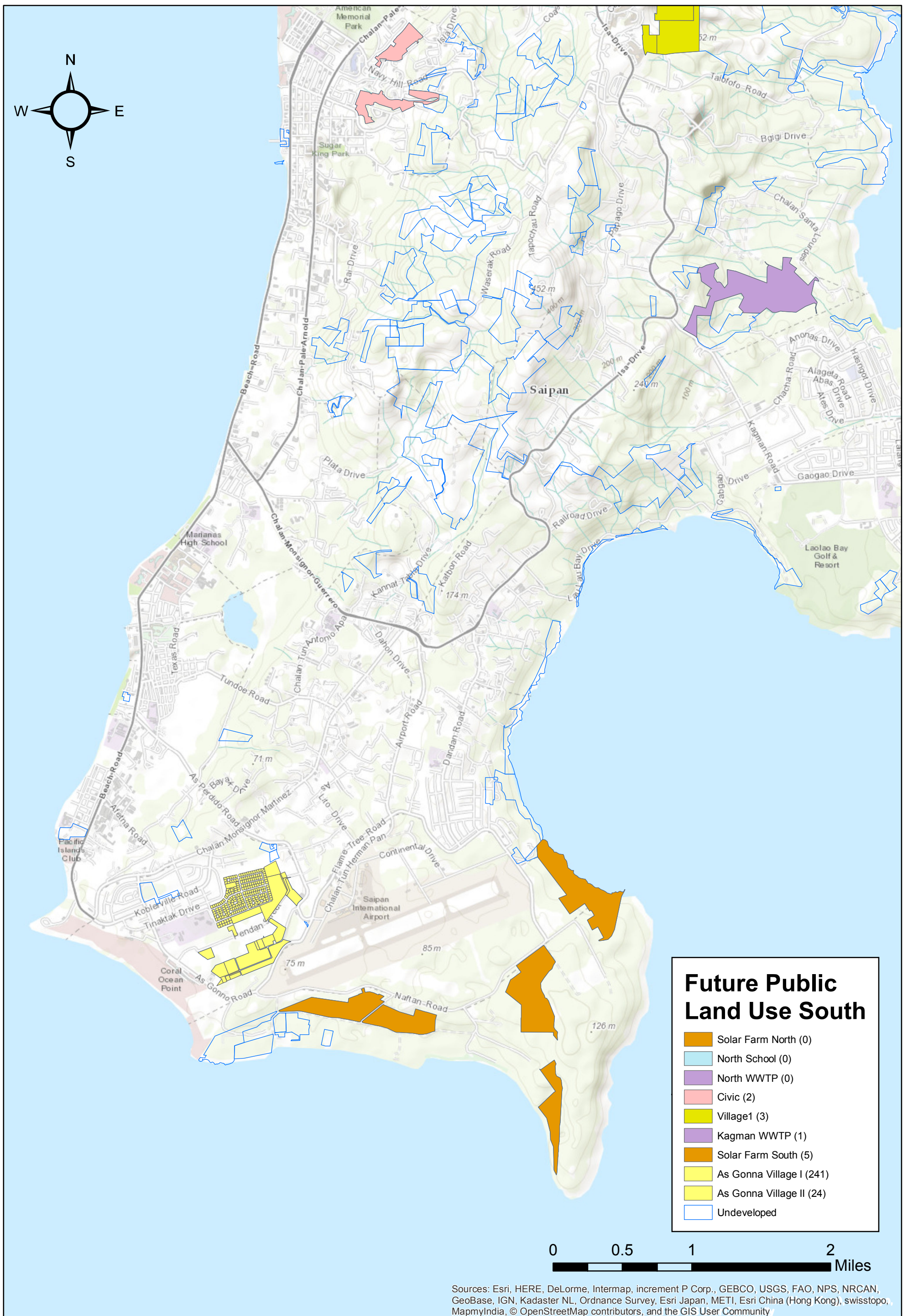


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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FIGURE S-14.2



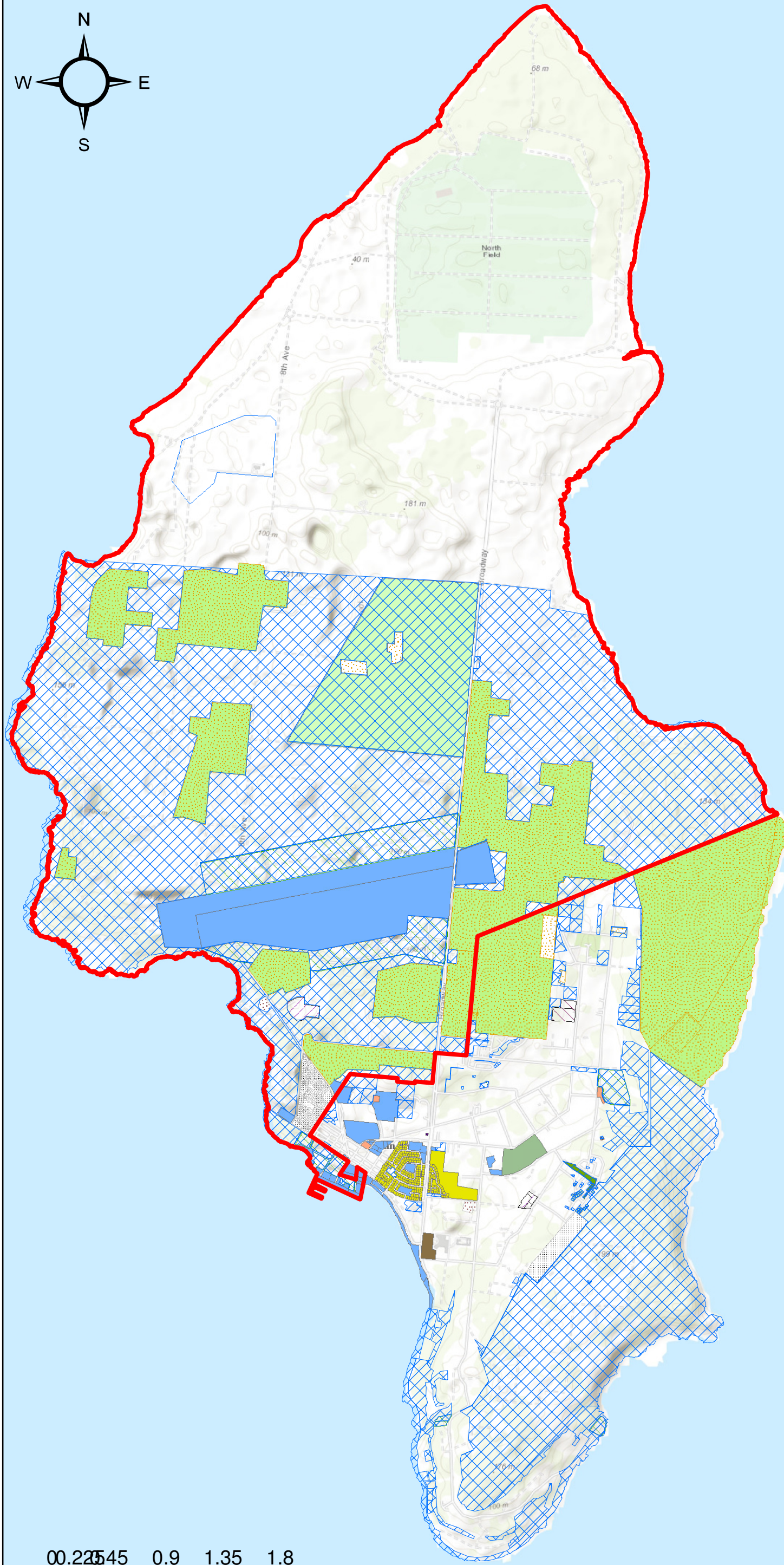
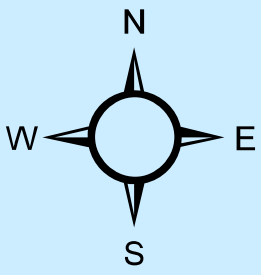


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FIGURE S-14.3



TINIAN MAPS

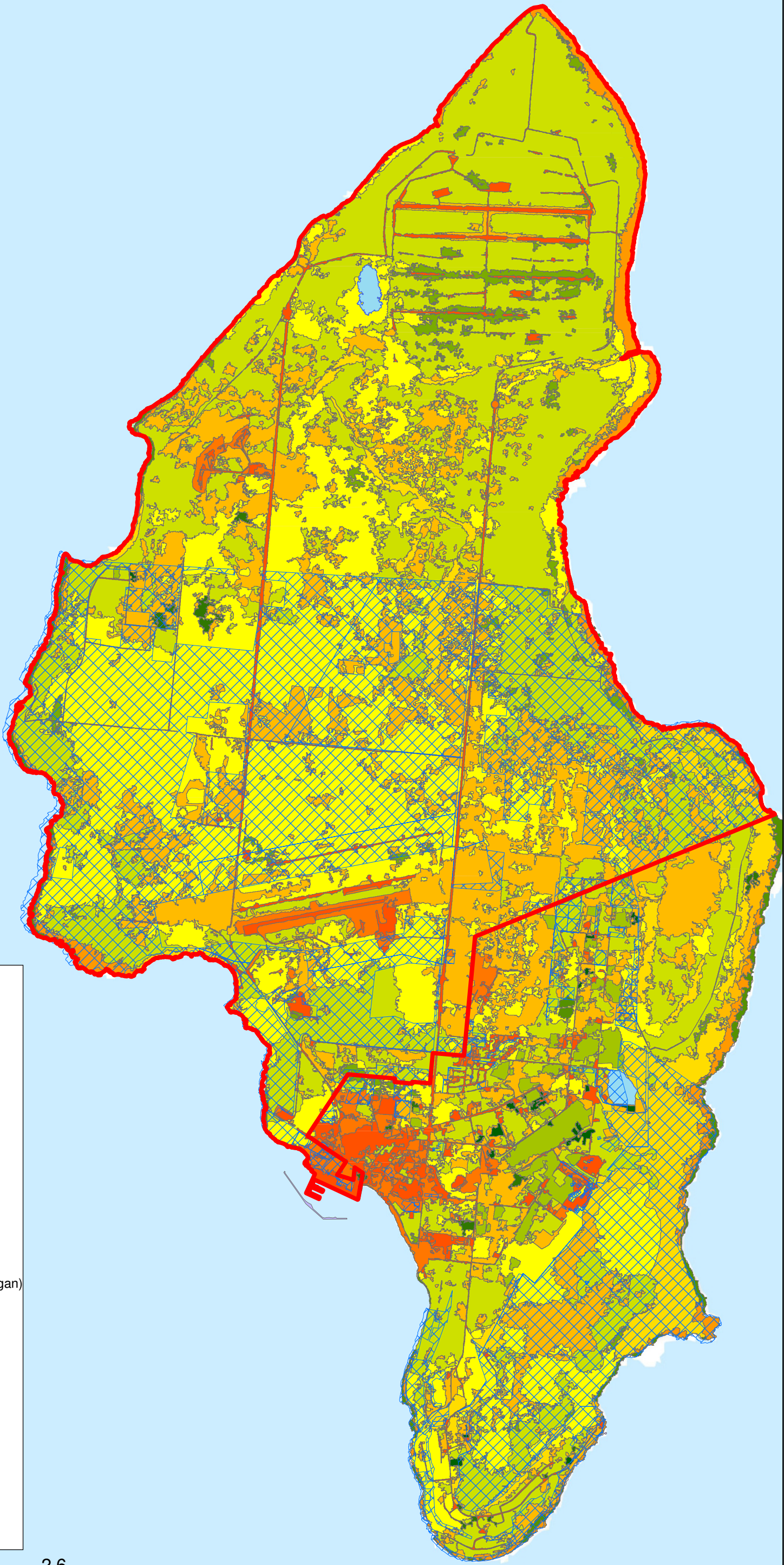
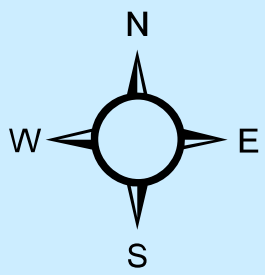


Land Use Classification

- Covenant Military Lease Area
- Undeveloped Public Land
- Unverified
- US Antenna
- US Military
- US Park
- Undefined
- FVHP
- Shoreline Access
- Undefined
- Open Grassland
- Public Facility Undeveloped
- Undefined
- Marine Conservation Sanctuary
- Historical Protection Conservation
- Ponding Basin
- General Conservation
- Forest Conservation
- Wildlife Conservation
- Conservation Public Facility
- Natural Drainage
- Shoreline Conservation
- Landfill
- Quarry Processing
- Quarry
- Water Well
- Extraction Public Facility
- Crop Land
- Grazing Land
- Ag Public Facility
- Mixed Ag
- Animal Husbandry
- Golf Course
- Resort-Golf Complex
- Tourism Public Facility
- Resort Hotel
- Undefined
- Resort Attraction-Shopping
- Construction
- Undefined
- Public Facilities
- Undefined
- Utilities-Trans-Communications
- Service Industries
- Retail
- Residential
- Manufacturing

00.22545 0.9 1.35 1.8
 Miles

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

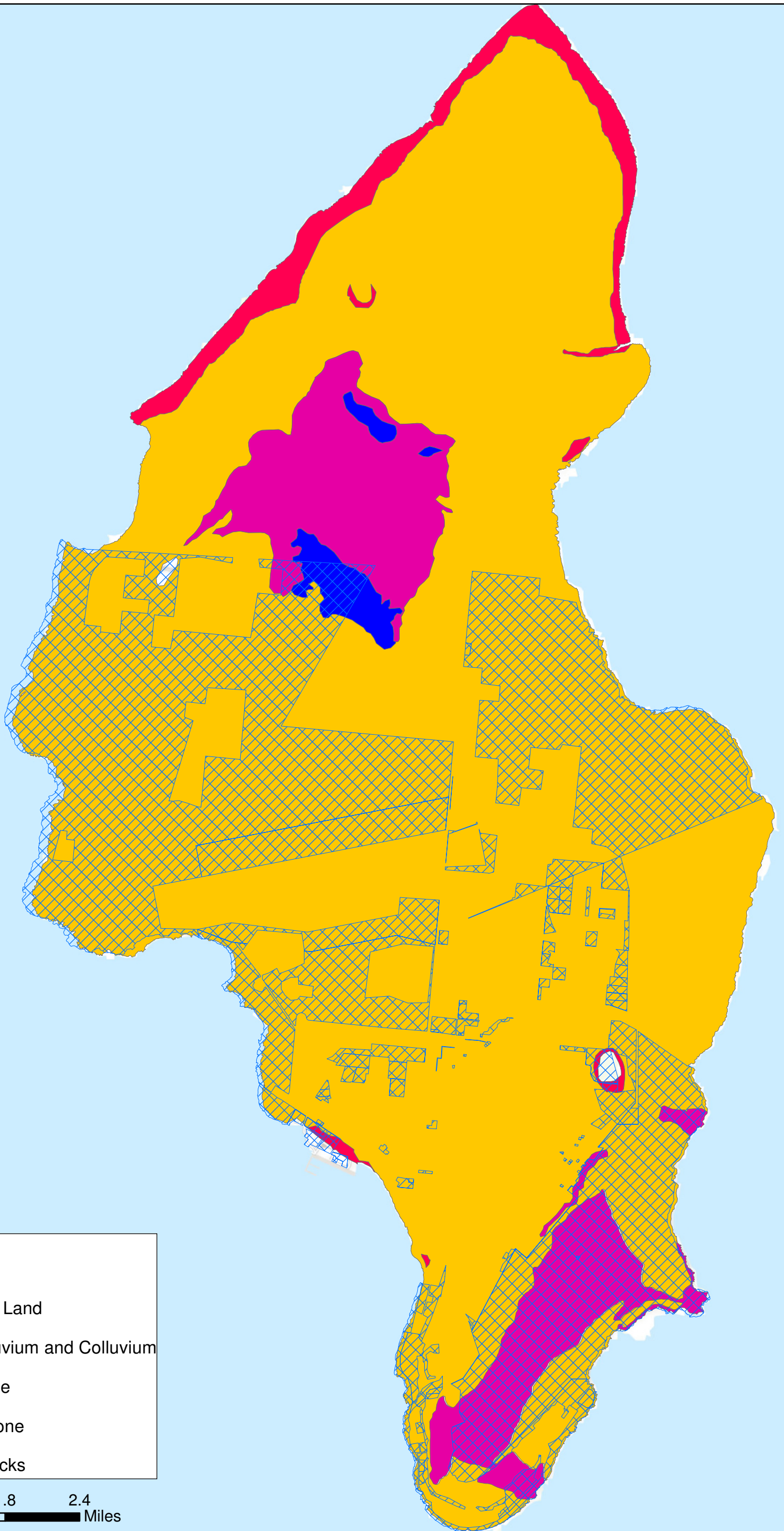
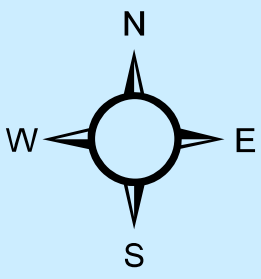


Vegetation Map






- Undeveloped Public Land
- Covenant Military Lease Area
- Agroforest
- Agroforest -- Coconut
- Barren/Sandy Beach/Bare Rocks
- Casuarina Thicket
- Cropland
- Leucaena Leucocephala (Tangantangan)
- Mixed Introduced Forest
- Native Limestone Forest
- Other Shrub and Grass
- Strand
- Urban Vegetation
- Urban and Built-up
- Wetland

0 0.3250.65 1.3 1.95 2.6 Miles

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

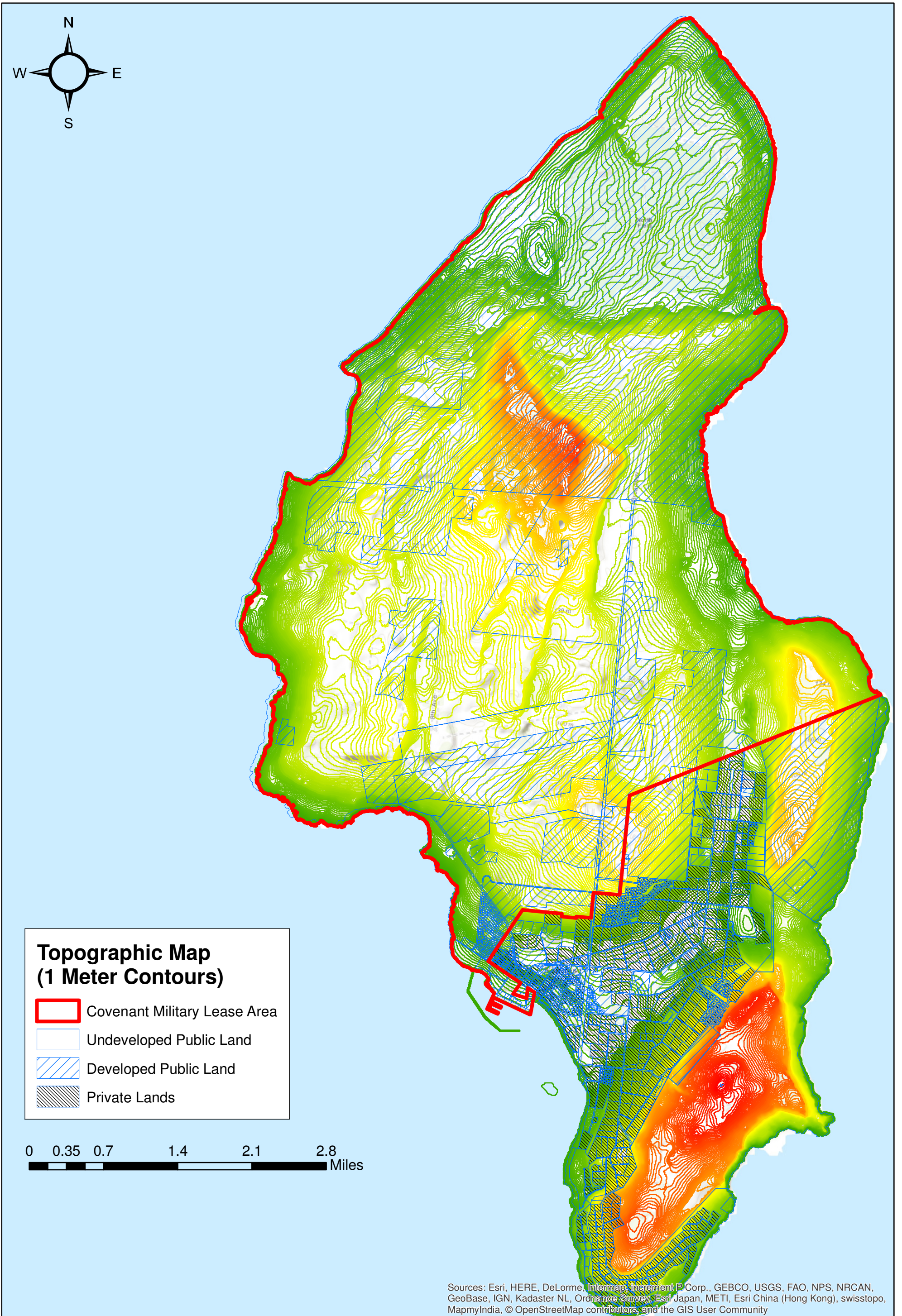


Soil Map

-  Undeveloped Public Land
-  Beach deposits, Alluvium and Colluvium
-  Q. mariana limestone
-  T. tagpochau limestone
-  Tinian pyroclastic rocks

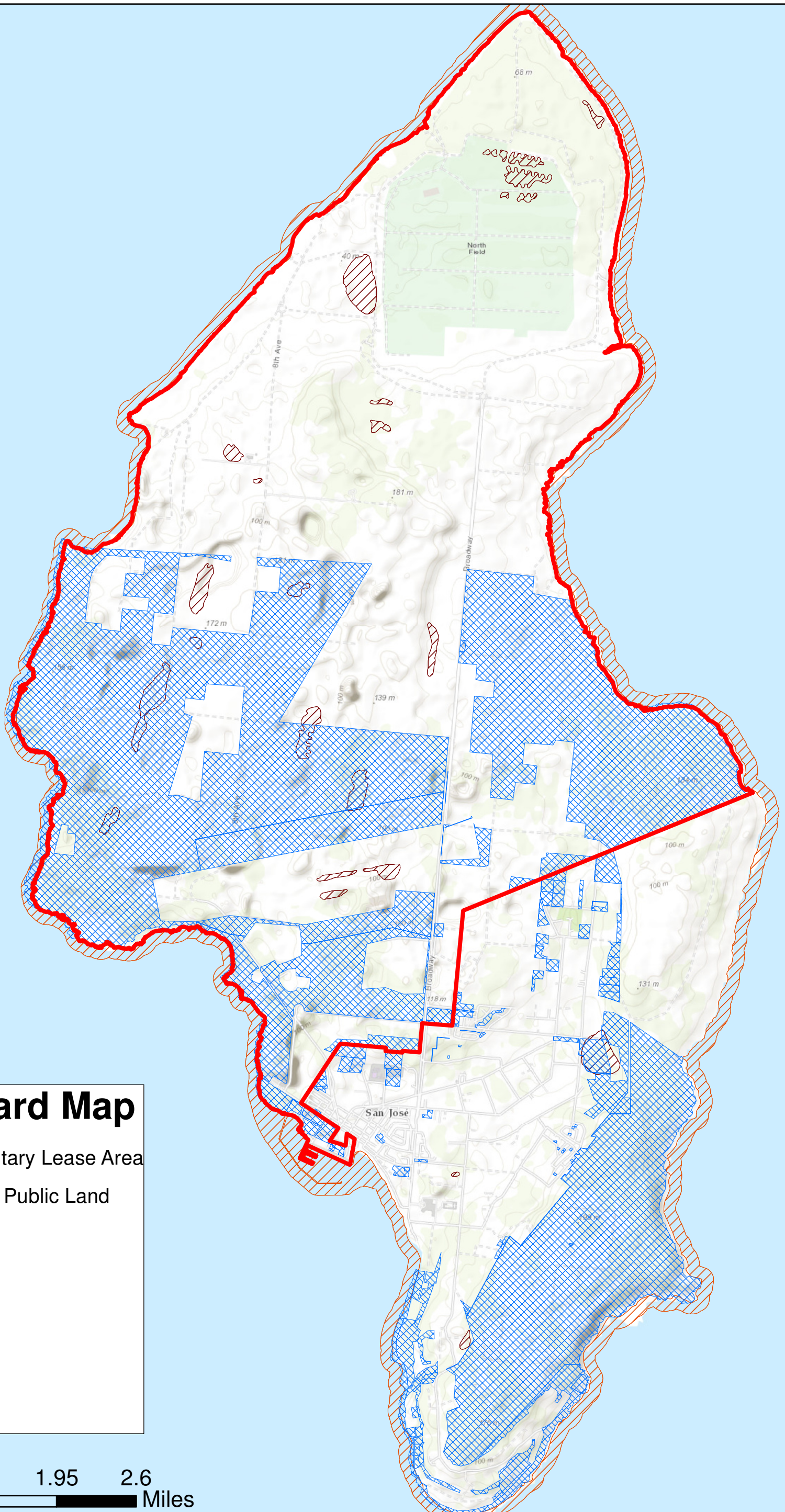
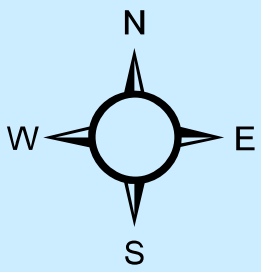
0 0.3 0.6 1.2 1.8 2.4 Miles

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



TINIAN

FIGURE T-4

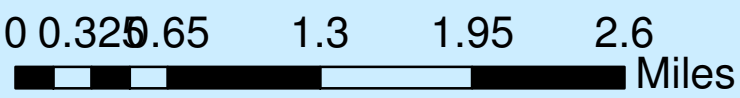


Flood Hazard Map

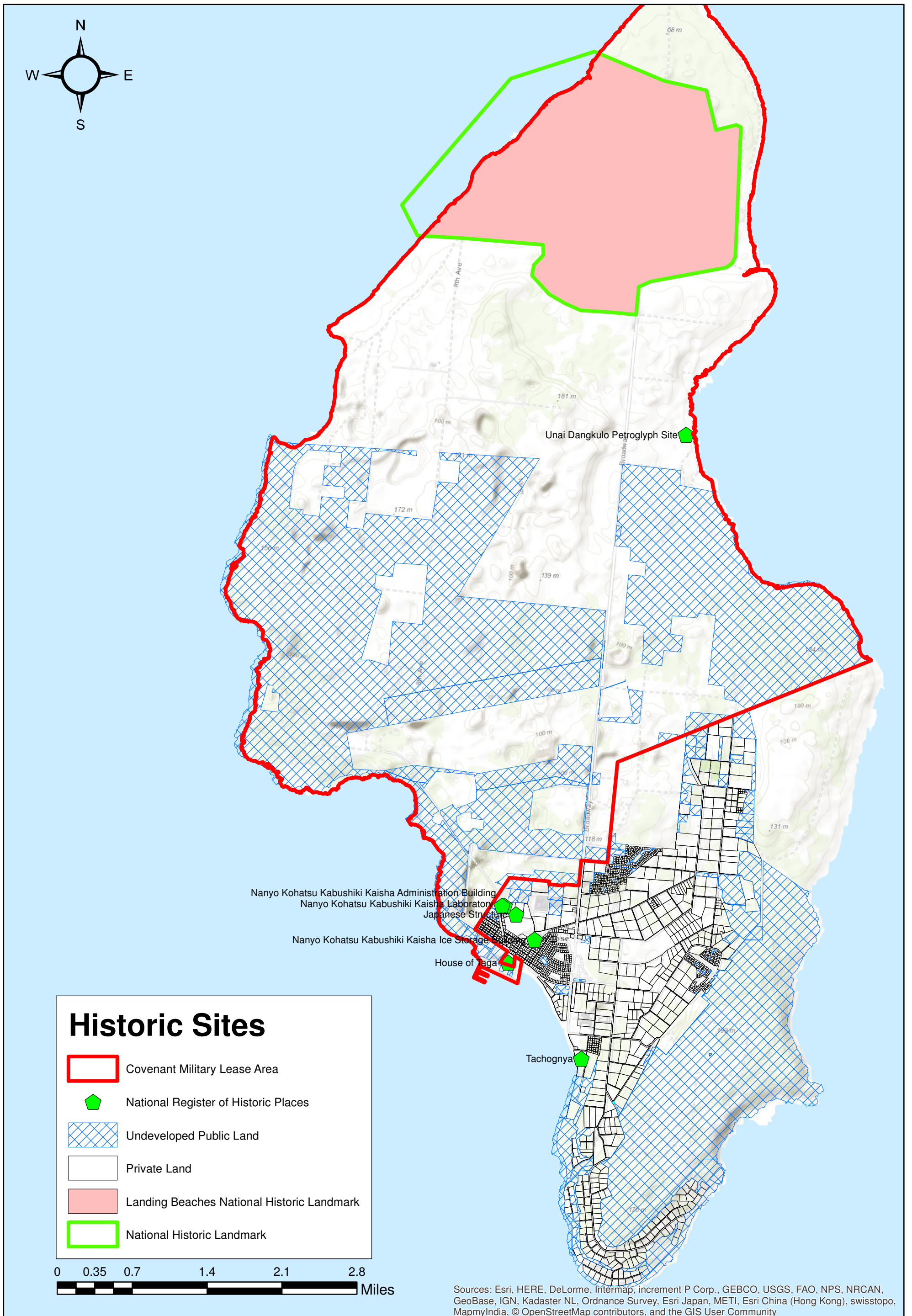
- Covenant Military Lease Area
- Undeveloped Public Land

FEMA Flood Zones

- A
- AE
- AO
- V
- VE

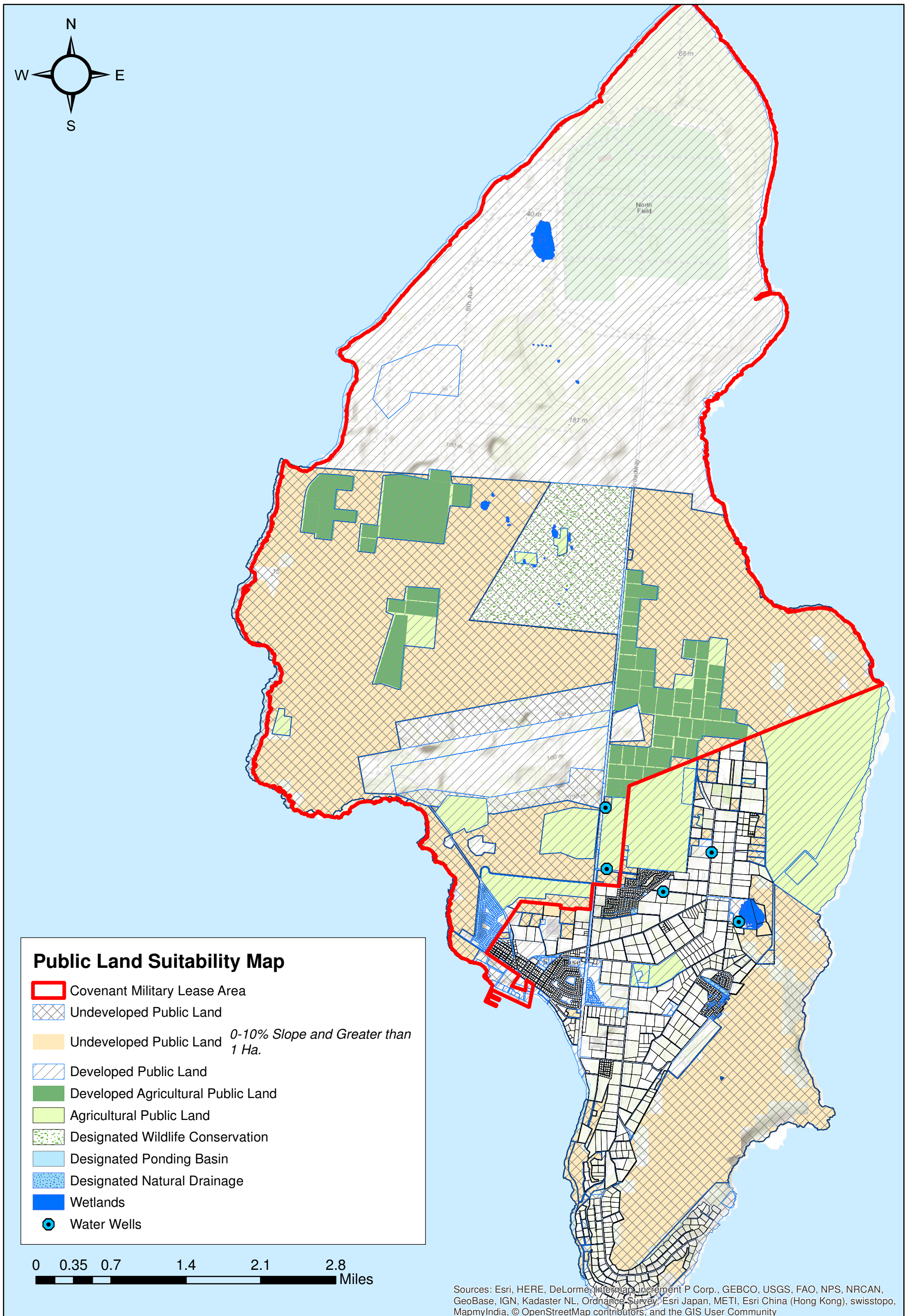


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



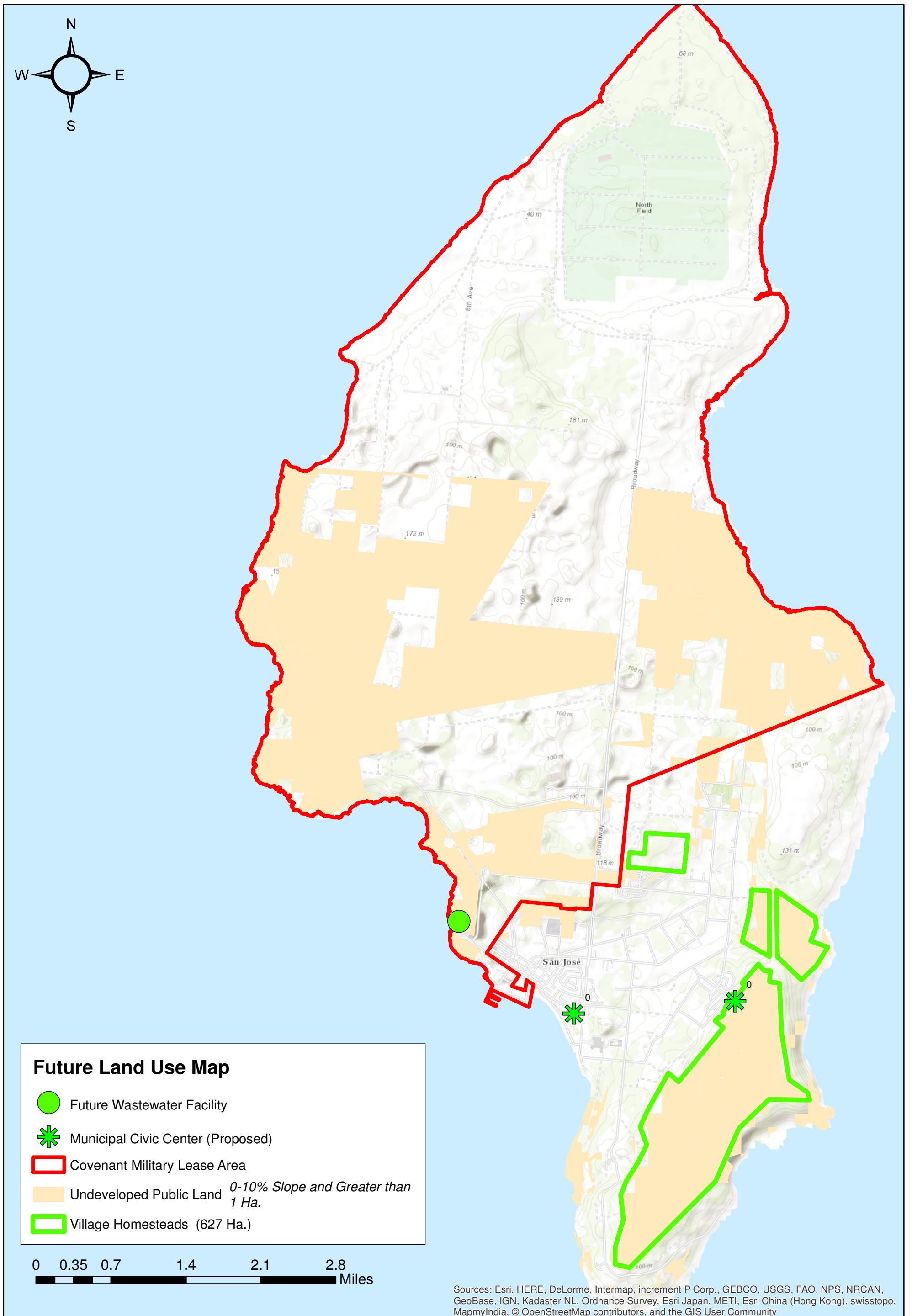
TINIAN

FIGURE T-6



TINIAN

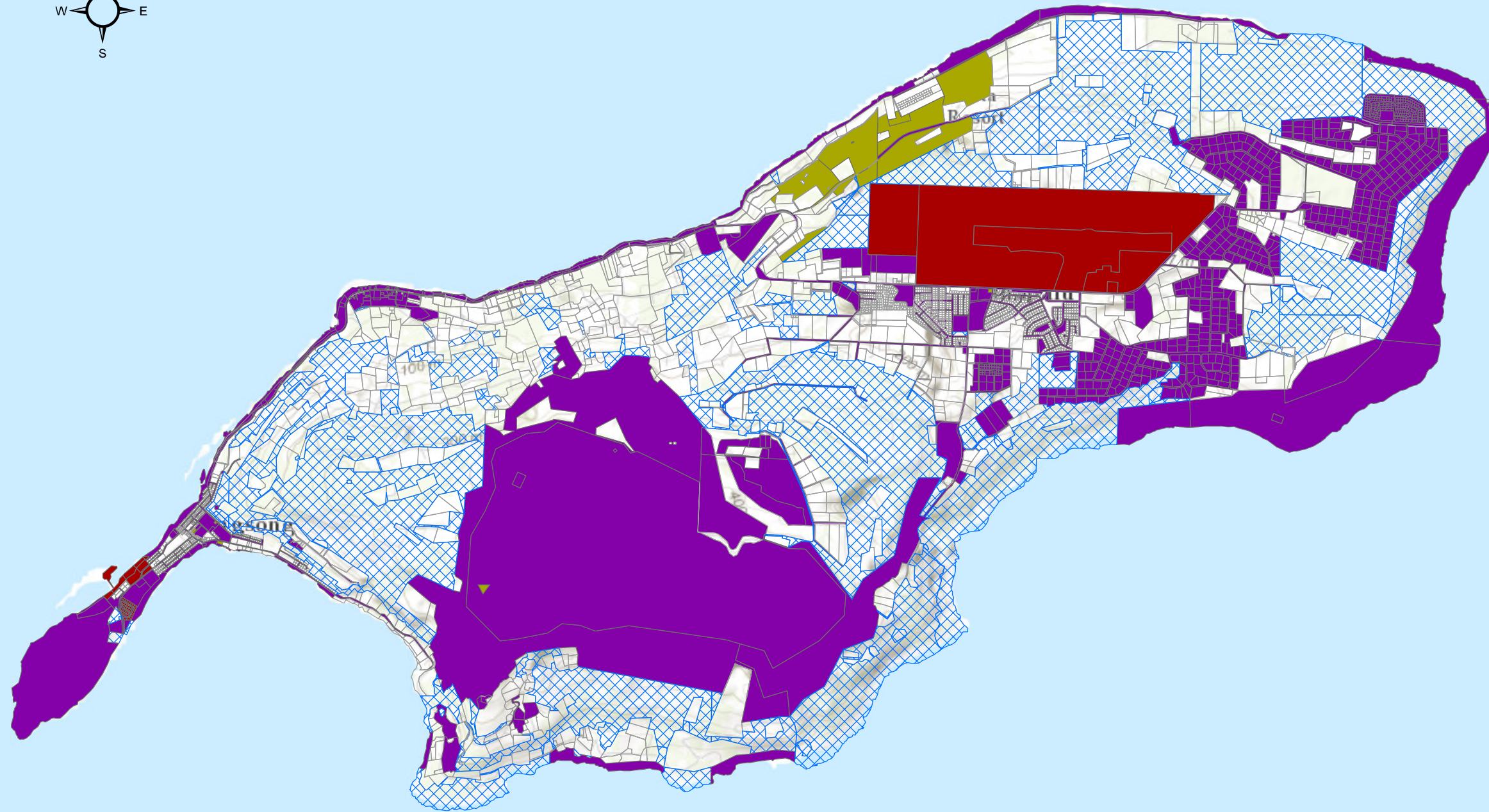
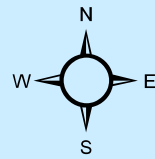
FIGURE T-7








TINIAN

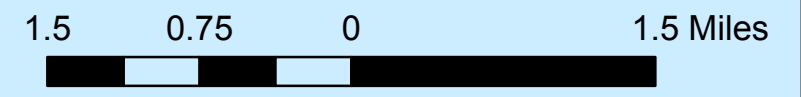
FIGURE T-8

ROTA MAPS



Public Lands

-  Undesignated/Not In Use
-  Grant of Public Domain
-  Leased
-  Designated/In Use
-  Private Land

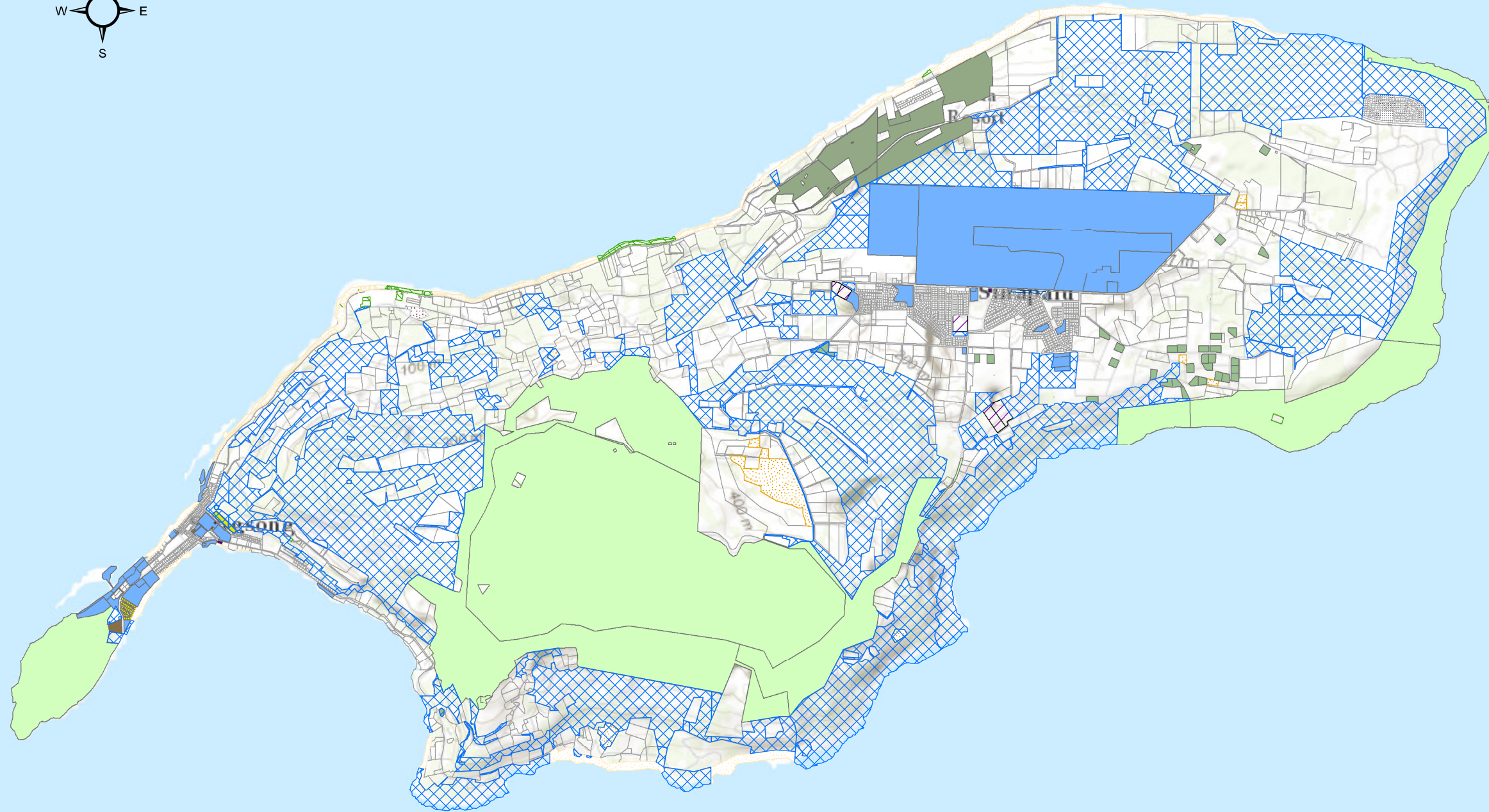
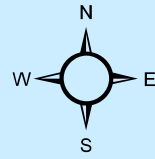


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

ROTA

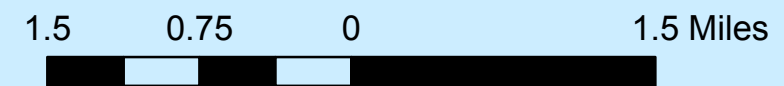
FIGURE R-1





Existing Public Land Use

- Undesignated/Not In Use
- Public Land Use**
- FVHP
- Public Facility Undeveloped
- Wildlife Conservation
- Shoreline Conservation
- Landfill
- Quarry
- Crop Land
- Mixed Ag
- Resort-Golf Complex
- Resort Hotel
- Public Facilities
- Undefined
- Utilities-Trans-Communications
- Residential
- Private Land

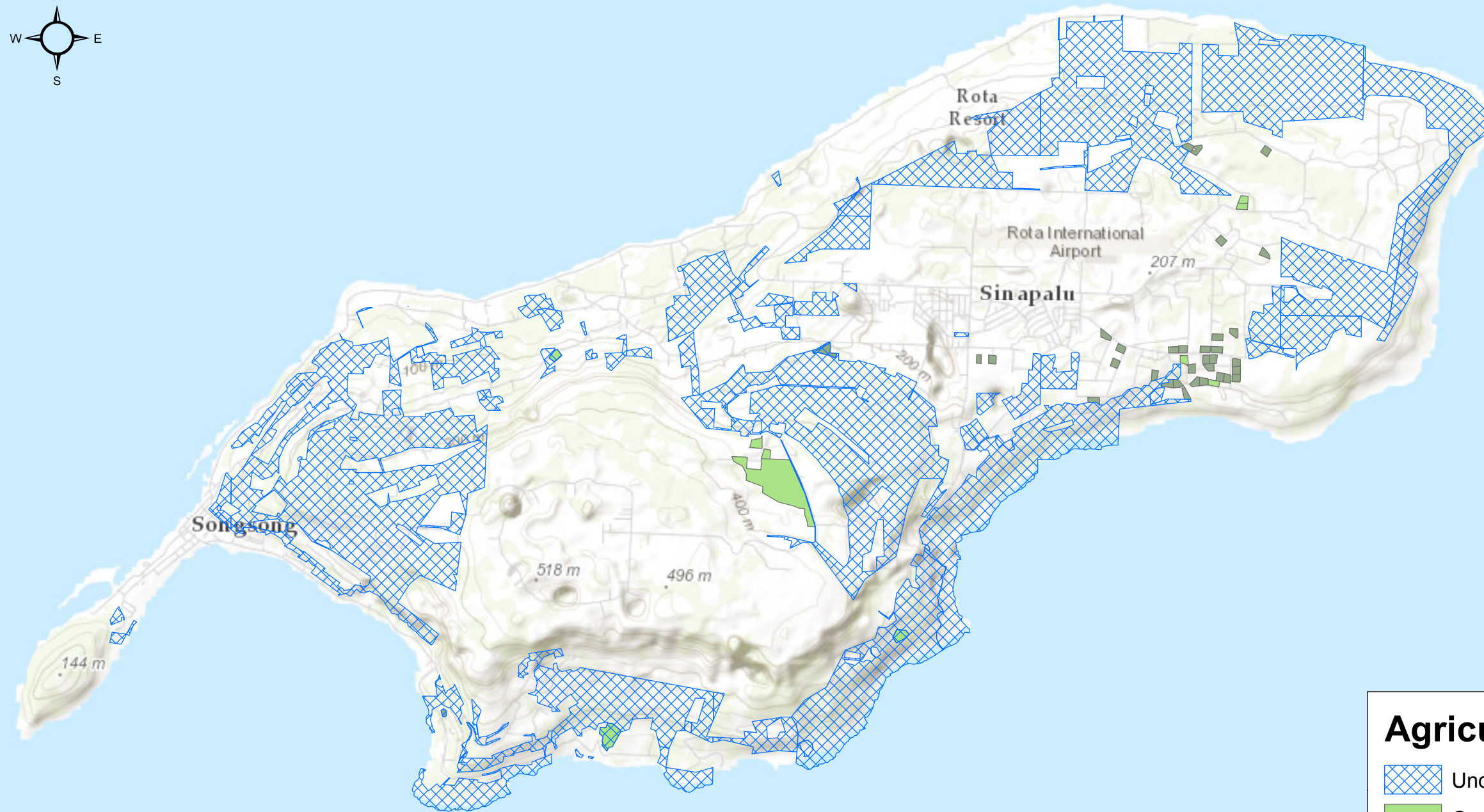
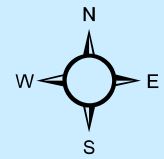


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

ROTA

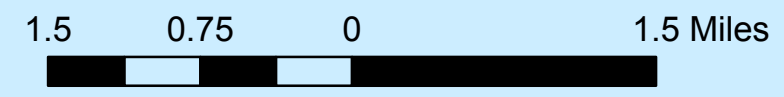
FIGURE R-2





Agricultural Uses

-  Undesignated/Not In Use Public Land
-  Crop Land
-  Mixed Ag Uses

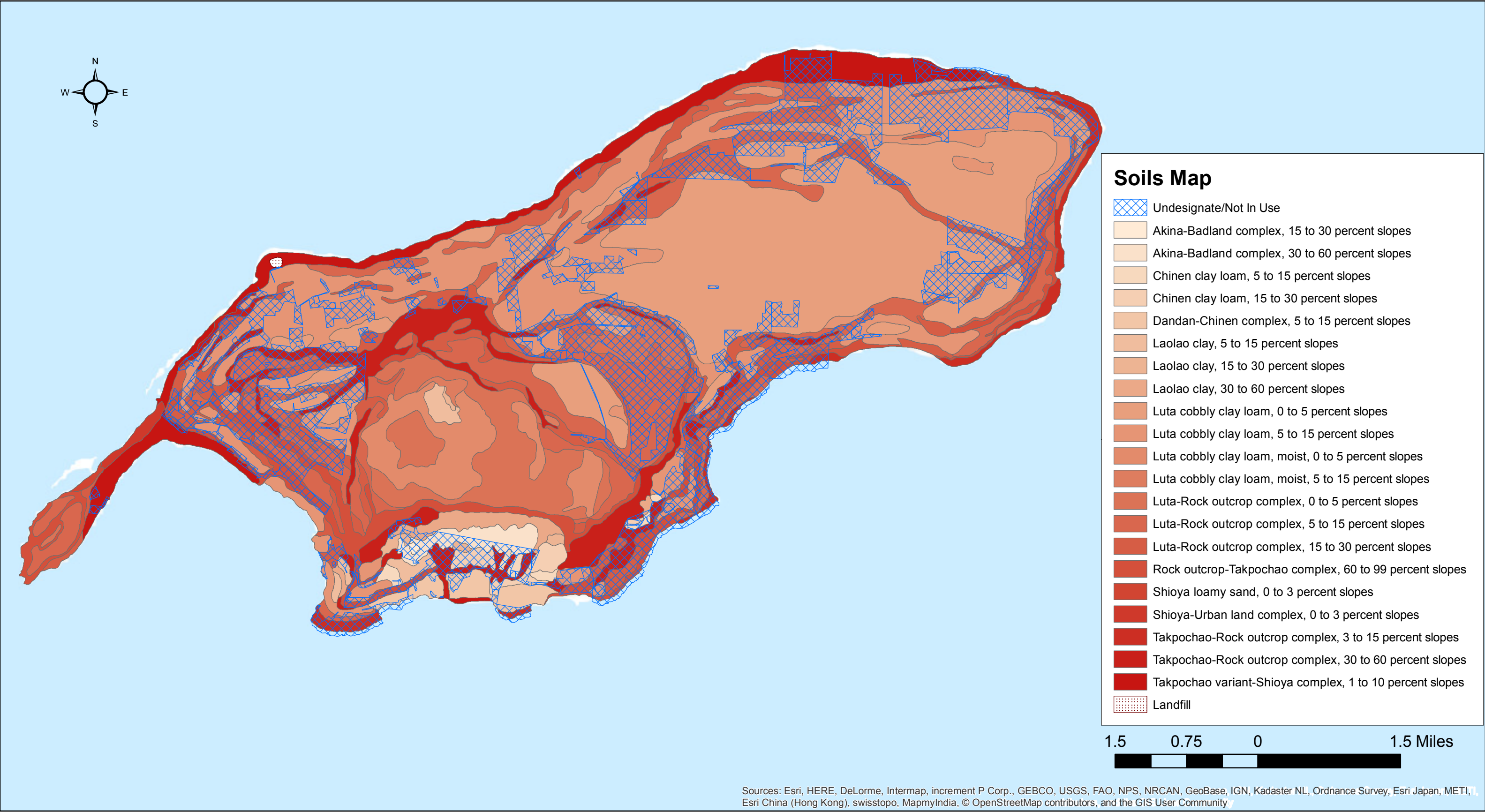


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
























ROTA

FIGURE R-3





Soils Map

-  Undesignate/Not In Use
-  Akina-Badland complex, 15 to 30 percent slopes
-  Akina-Badland complex, 30 to 60 percent slopes
-  Chinen clay loam, 5 to 15 percent slopes
-  Chinen clay loam, 15 to 30 percent slopes
-  Dandan-Chinen complex, 5 to 15 percent slopes
-  Laolao clay, 5 to 15 percent slopes
-  Laolao clay, 15 to 30 percent slopes
-  Laolao clay, 30 to 60 percent slopes
-  Luta cobbly clay loam, 0 to 5 percent slopes
-  Luta cobbly clay loam, 5 to 15 percent slopes
-  Luta cobbly clay loam, moist, 0 to 5 percent slopes
-  Luta cobbly clay loam, moist, 5 to 15 percent slopes
-  Luta-Rock outcrop complex, 0 to 5 percent slopes
-  Luta-Rock outcrop complex, 5 to 15 percent slopes
-  Luta-Rock outcrop complex, 15 to 30 percent slopes
-  Rock outcrop-Takpochao complex, 60 to 99 percent slopes
-  Shioya loamy sand, 0 to 3 percent slopes
-  Shioya-Urban land complex, 0 to 3 percent slopes
-  Takpochao-Rock outcrop complex, 3 to 15 percent slopes
-  Takpochao-Rock outcrop complex, 30 to 60 percent slopes
-  Takpochao variant-Shioya complex, 1 to 10 percent slopes
-  Landfill

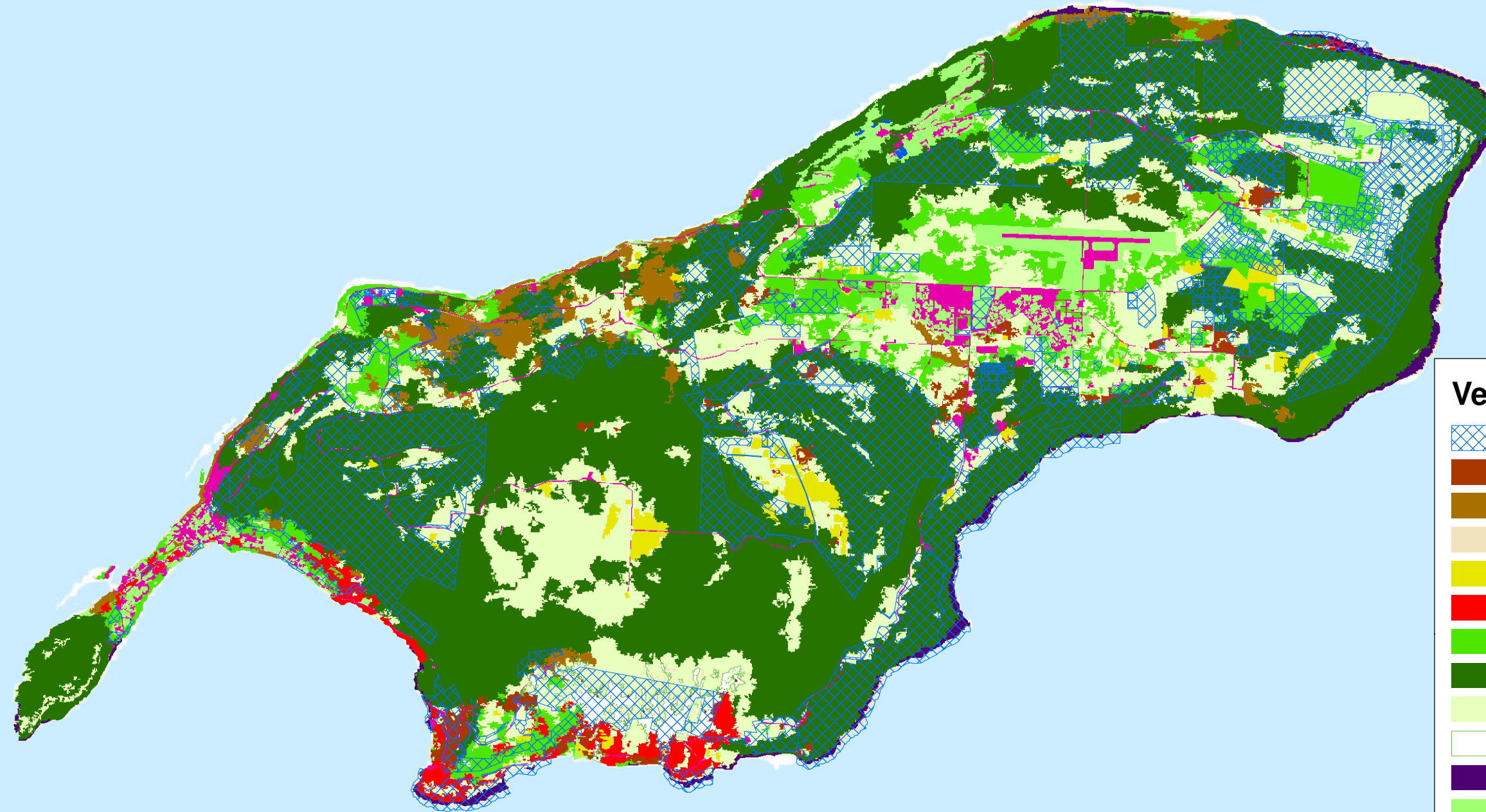
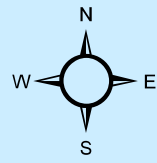
1.5 0.75 0 1.5 Miles

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

ROTA

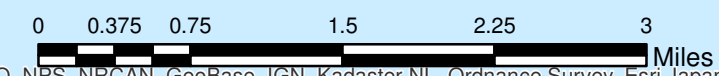
FIGURE R-4





Vegetation

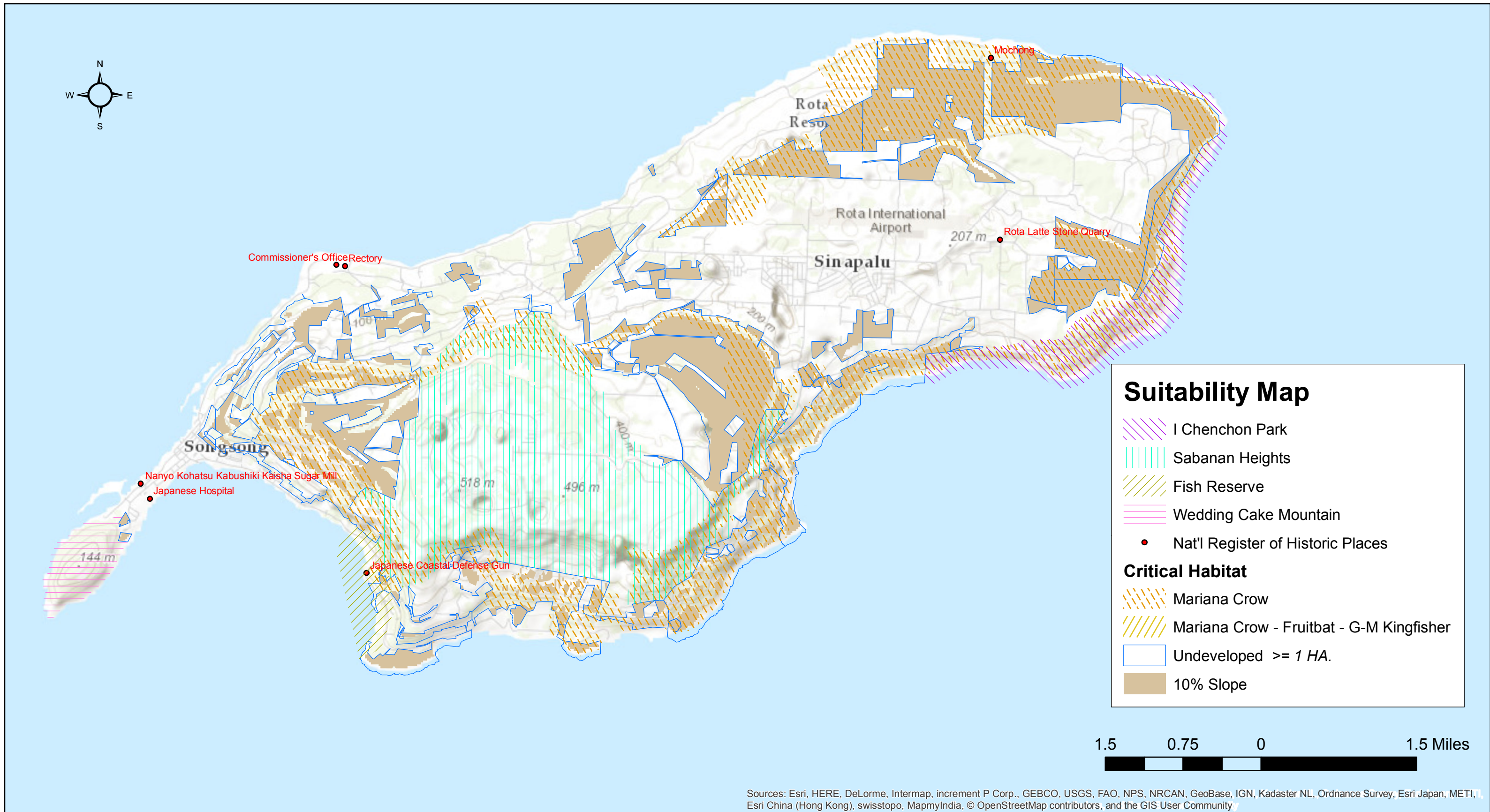
- Undeveloped Public Land
- Agroforest
- Agroforest -- Coconut
- Barren/Sandy Beach/Bare Rocks
- Cropland
- Leucaena Leucocephala (Tangantangan)
- Mixed Introduced Forest
- Native Limestone Forest
- Other Shrub and Grass
- Ravine Forest
- Strand
- Urban Vegetation
- Urban and Built-up
- Water



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

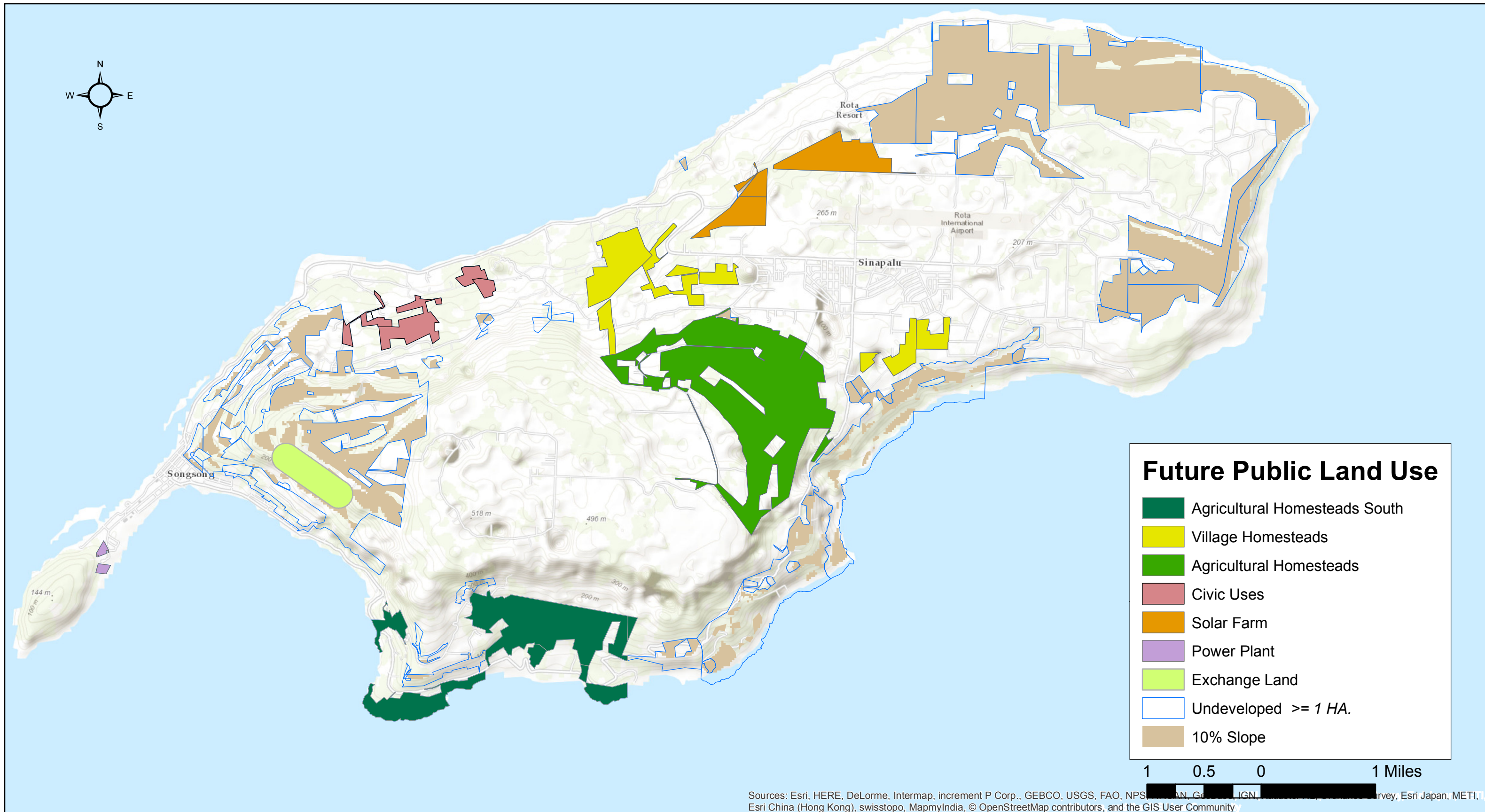
ROTA

Figure R-5



ROTA

FIGURE R-6

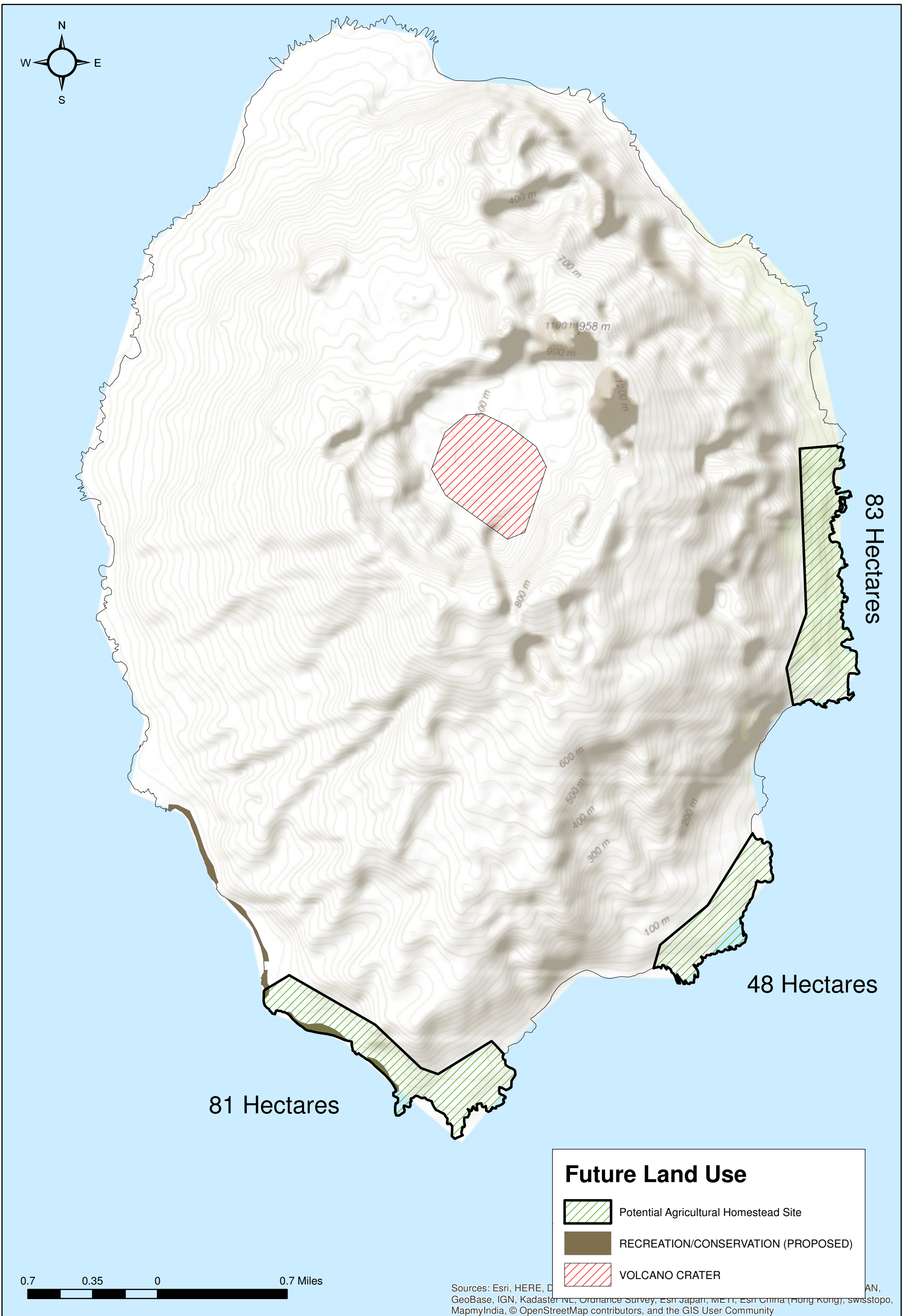


ROTA

FIGURE R-7

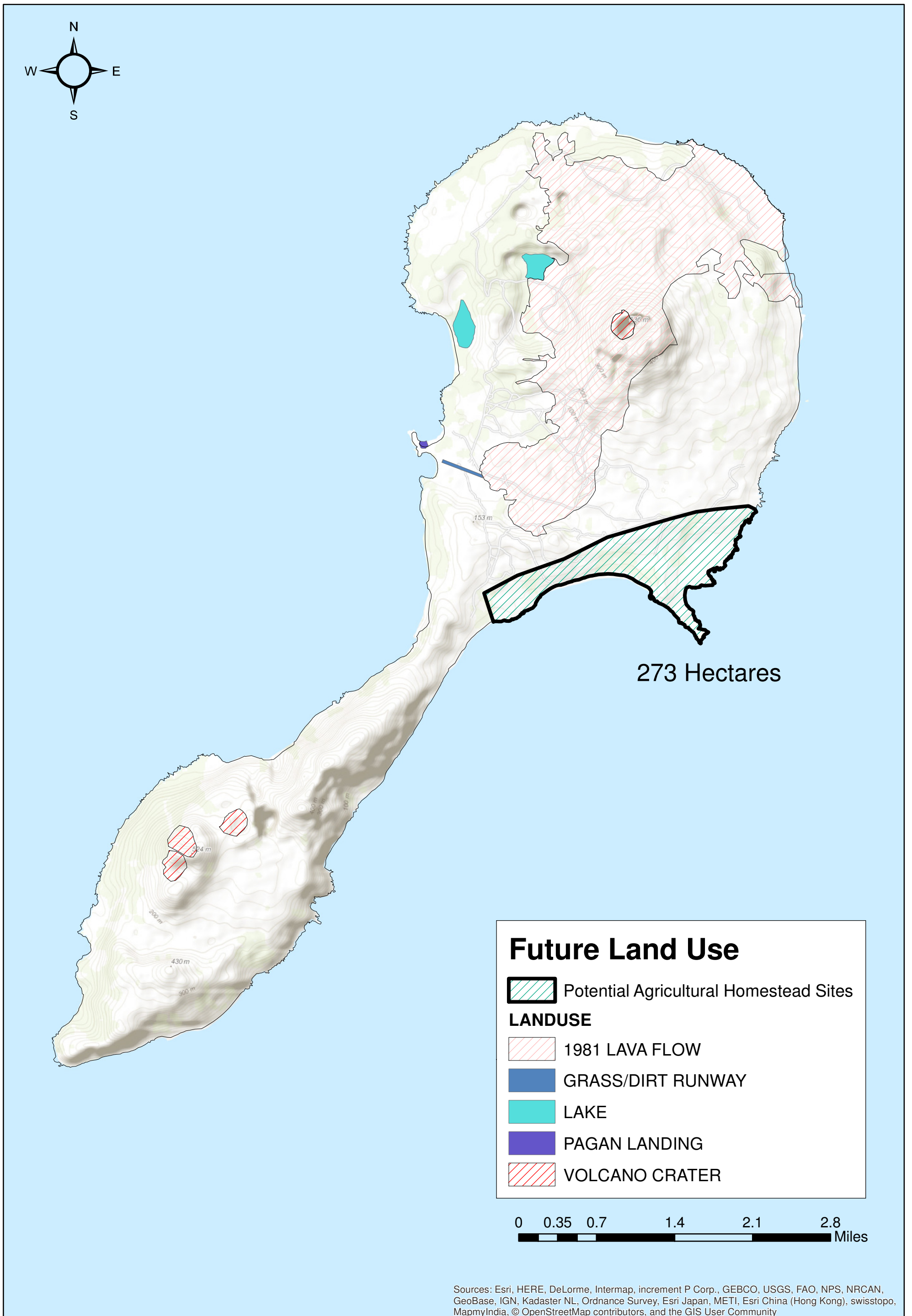


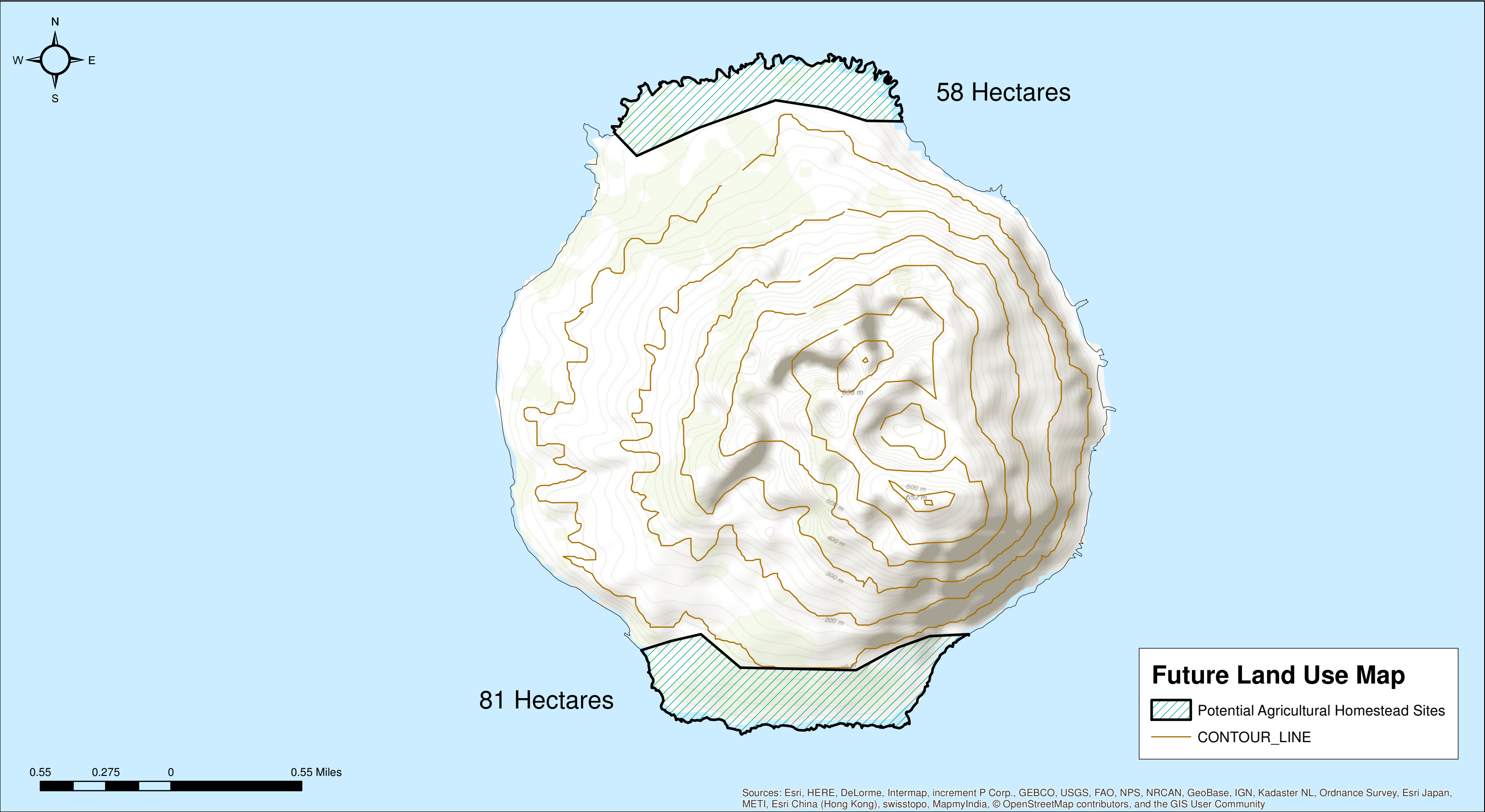
NORTHERN ISLAND MAPS



AGRIHAN

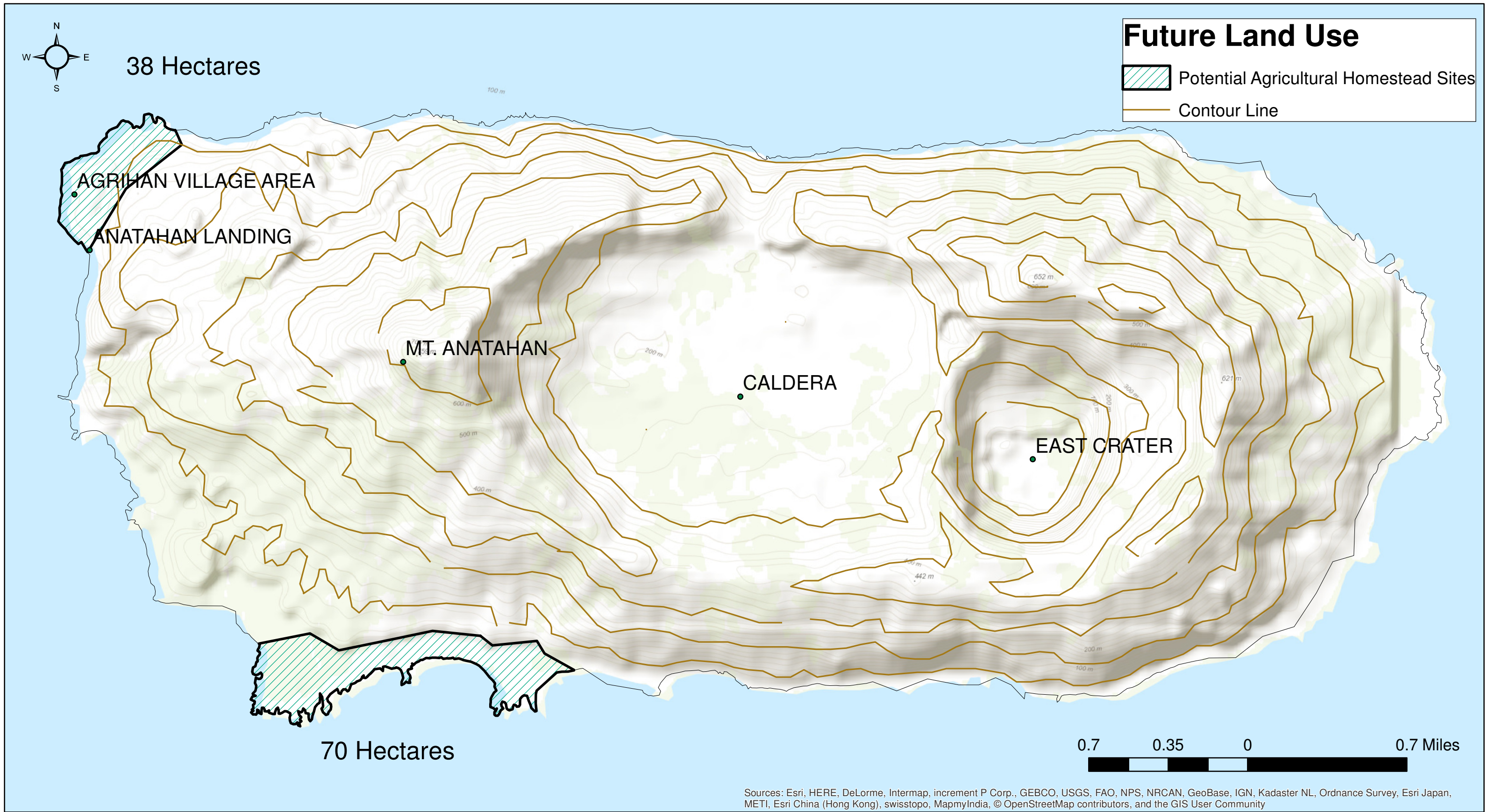
FIGURE N-1





ALAMAGAN

FIGURE N-3



ANATAHAN

FIGURE N-4