# 

# Disaster and logistics context.

Penama province consists of three large islands. Ambae, Pentecost and Maewo.

Draft poulation data from mini census 2016:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Province** | | **Area Council** | **Male** | **Female** | **Not stated** | **Population** | **HH** | **HH size** |
| Penama | west ambae | | 2062 | 1962 | 0 | 4024 | 838 | 4.8 |
| Penama | north ambae | | 1707 | 1746 | 7 | 3460 | 727 | 4.8 |
| Penama | east ambae | | 1018 | 838 | 0 | 1856 | 455 | 4.1 |
| Penama | south ambae | | 762 | 719 | 0 | 1481 | 327 | 4.5 |
| Penama | north maewo | | 1189 | 1117 | 1 | 2307 | 543 | 4.2 |
| Penama | south maewo | | 655 | 637 | 0 | 1292 | 275 | 4.7 |
| Penama | north pentecost | | 2850 | 2649 | 4 | 5503 | 1,162 | 4.7 |
| Penama | central pentecost 1 | | 1335 | 1274 | 0 | 2609 | 568 | 4.6 |
| Penama | central pentecost 2 | | 1635 | 1691 | 9 | 3335 | 791 | 4.2 |
| Penama | south pentecost | | 2431 | 2523 | 3 | 4957 | 1,016 | 4.9 |

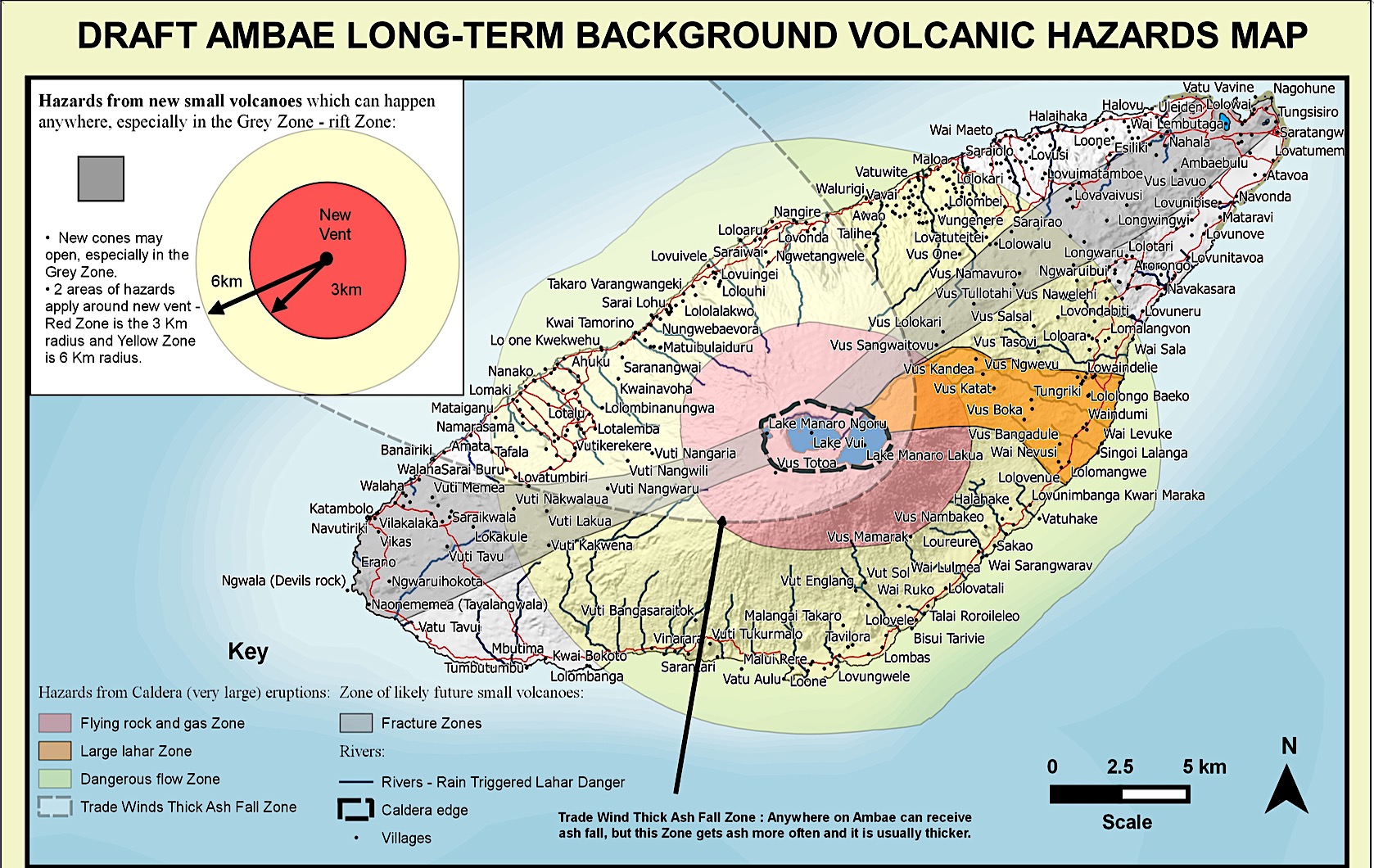
All islands are to the East of Santo, meaning Penama is equally as serviceable from both logistics hubs of Port Vila and Luganville.

The Provincial headquarters is located in Saratamata, Ambae. It is located at the North of Ambae close to the main port of Lolowai and Longana airport.

|  |  |  |
| --- | --- | --- |
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All islands are regularly affected by cyclones: TC Pam (2015), TC Xena (2016), TC Cook (2017), drought, flooding, earthquake and tsunami. In November 1999 two people were lost in South Pentecost after a tsunami.

Ambae has an active volcano which last erupted in 2005 resulting in the evacuation of all communities to the Northern end of the island. It currently sits at activity level 2 and the ash cloud can affect Pentecost and Maewo in the summer during south westerly winds. Normally the ash affects the west side of the island, which can damage the water taro crops.



Water shortages are a problem for North Pentecost. TC Pam destroyed water harvesting systems, and springs are located down very steep hills. Roads to the schools are bad and can be impassible after heavy rain. NGO’s have been working to install water pumping systems from the springs but it has been a difficult process due to the land conditions and weather. Water trucking was implemented to three of the major boarding schools in North and Central Pentecost, who ran out of water during the El Nino related drought in 2016.

The following agencies are operating in Penama:

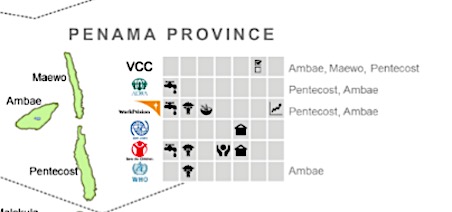
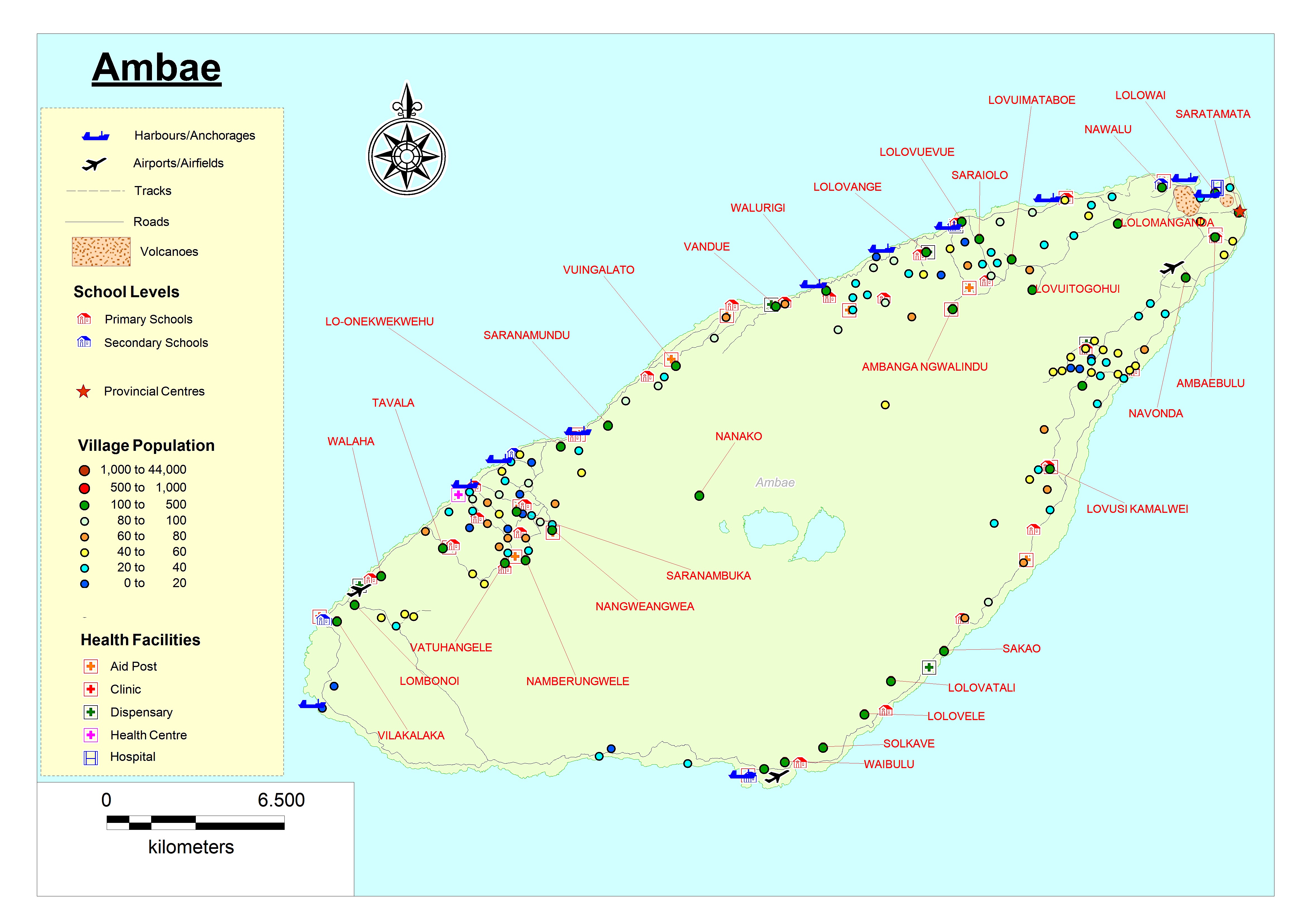


Image: Extract from VHT 3W’s October 2016.

# Ambae



Lolowai port is the main port of Ambae and close to the Provinicial capital of Saratamata. Ships depart Lolowai to Loane in North Pentecost and Asanvwari, South Maewo.

## Air transport

Air Vanuatu and Belair provide air transport service to Ambae.

|  |  |  |  |
| --- | --- | --- | --- |
| **Airport Name** | **Coordinates** | **Capacity** | **Runway** |
| **Ambae** | | | |
| Longana | **Lat** S 15 18 35  **Long E** 167 49 46 | Twin otter, islander  Mon, Tue, Wed, Sat | 735m x 22m  Grass on soil |
| Walaha | **Lat** S 15 24 58  **Long** E 167 41 02 | Twin otter, islander  Mon, Wed, Fri, Sat | 725m x 35m  Grass |

## Sea Transport

The following cargo ships service Ambae.

Tina 1/Brisk

Vanuatu Cargo

LC Sarafenua

MV Brooklyn

LC Austrader

MV Makila

MV Kalyara

MV Lepati

MV Keidi

## Seaports

|  |  |  |
| --- | --- | --- |
| **Port Name** | **Location/Coordinates** | **Type** |
| **Ambae** | | |
| Lolowai  (N) |  | Main Port. Landing craft. Access to St Patricks College |
| Lone (N) |  | Banana boat or copra ships |
| Lolopuepue  (NW) | Lat.15\*18’33.34S  Long. 168\*50’53.98E | Wharf. Access to Tagaga College |
| Malaloa |  | Anchorage |
| Walurigi |  | Anchorage |
| Saranamundu |  | Anchorage |
| Lone (SW) |  |  |
| Nduidui |  | Wharf |
| Walaha |  | Access to JSS |
| Devils Rock  (SW) |  | Landing craft on the beach |
| Redcliff  (SE) |  | Landing craft |
|  |  | Access to JSS |

## Road Transport

There is a ring road that goes around the island of Ambae. After heavy rains the road can be impassible on the North west side between Saranamundu and Vandue as it is very steep, and on the south side between Namberungwele and Redcliffe.

Major Evacuation Centres.

St Patrick College (N)

Tagaga College (NW)

Lolopuepue Catholic church

Navutiriki JSS (SW)

Ambabulu JSS (NE)

## Emergency Storage for relief supplies.

Vanuatu Red Cross Society has a small storage room and prepositioned Non Food Items at Saratamata.

|  |  |
| --- | --- |
| Tarpaulin | 200 |
| Hygiene Kits | 100 |
| Jerry can 10L | 100 |
| Sleeping Mats | 100 |
| Mosquito net | 200 |
| Shelter kits | 200 |
| Kitchen set | 200 |
| Blankets | 100 |
| Solar Lanterns | 100 |

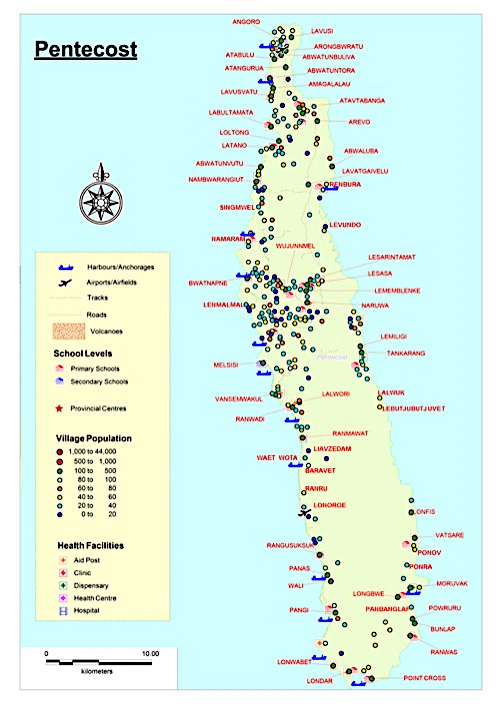
Space may be available at the Provincial HQ has a small storage buildings at Saratamata and Police and publics works offices.

## Emergency communications

Lolowai hospital has HF radio, and the airports.

# Pentecost

Ships regularly travel to Pentecost which is a major producer of kava. There are several large colleges and boarding schools on the island. Pentecost is very steep in the middle of the island making it difficult to pass from East to West. The majority of the population live on the West coast of the island.



## Air transport

Air Vanuatu and Belair service Pentecost.

|  |  |  |  |
| --- | --- | --- | --- |
| **Airport Name** | **Coordinates** | **Capacity** | **Runway** |
| **Ambae** | | | |
| Sara  (N) | **Lat** S 15 26 16  **Long** E 168 09 15 | Twin otter, islander  Mon, Wed, Fri, Sat | 600m x 23m  Grass on coral |
| Lonorore  (SW) | **Lat** S 15 52 10  **Long** E 168 09 55 | Twin otter, islander  Mon, Wed, Fri, Sat | 1200m x 23m  Bitumen |

## Sea Transport

Ships that service Pentecost:

Tina 1/Brisk

Vanuatu Cargo

LC Sarafenua

MV Brooklyn

LC Austrader

MV Makila

MV Kalyara

MV Lepati

MV Keidi

**Ports**

There are no major ports on the east coast of the island as the seas are too rough and it is dangerous to anchor.

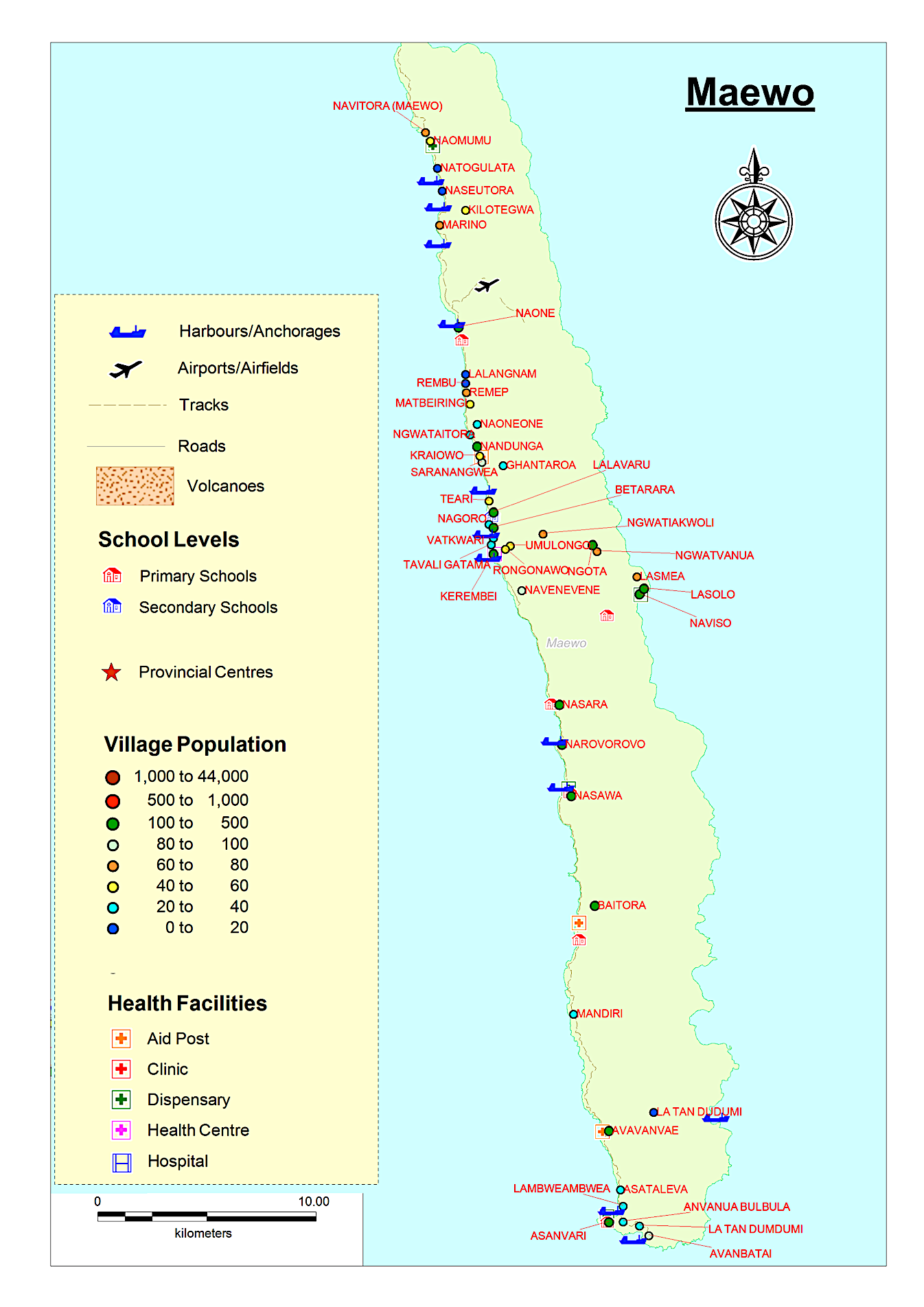
|  |  |  |
| --- | --- | --- |
| **Port Name** | **Location/Coordinates** | **Type** |
| **Pentecost** | | |
| Loane |  | Main Port. Landing craft. Access to Walter Lini School. |
| Abwatontora |  | Landing craft in low seas. Road from West to East from this port |
| Loltong |  | Good harbour. Main passage for North. Landing craft |
| Namaram |  | Landing craft. Road to East. |
| Bwatnapne |  | Landing craft. Access to Bwatnapne boarding school. |
| Melsisi |  | Landing craft |
| Waterfall |  | Landing craft. Access to Ranwadi College |
| Waet wota |  | Landing craft. Access to boarding Primary school. |
| Panas |  | Anchorage |
| Pangi |  | Landing craft |
| Ranputor |  | Anchorage |
| Point Cross |  | Anchorage |
| Bay Martelie (SE) |  | Banana boat only |
|  |  |  |

**Road transport**

There is a road that runs from North Pentecost to south down the middle of the island. The roads in the North in particular are very bad and can be unusable after heavy rain. Cargo transport is predominately via sea due to the treacherous roads and expensive transport prices.

A few cross roads and bush tracks exist from the west coast to the east. One at Namaram port and one at Abwatontora. The middle of the island is very steep, taking all day to walk from one side of the island to the other.

There is a road at the south of the island from Pangi Port to Ranwas, which produces Kava and taro.



Transport to Maewo is either via the sole airport at the North of the island, or by sea transport from Laone Port, Pentecost or Lolowai Port, Ambae

## Air transport

Air Vanuatu and Bel Air service Maewo.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Airport Name** | **Coordinates** | **Capacity** | | **Runway** |
| **Maewo** | | | | |
| Maewo  (aka Molalo airport) | **Lat** S 14 59 48  **Long** E 168 04 50 | | Twin otter, islander  Mon, Thu, Fri | 850m x 22m  Grass on soil |

## Sea Transport

Ships that service Maewo.

Tina 1/Brisk

Vanuatu Cargo

MV Brooklyn

MV Makila

MV Kalyara

LC Sabrina

MV Hula

|  |  |  |
| --- | --- | --- |
| **Port Name** | **Location/Coordinates** | **Type** |
| **Maewo** | | |
| Natogulata |  | Anchorage |
| Kilotegwa |  | Anchorage |
| Marino |  | Anchorage |
| Naone |  | Landing craft |
| Nagoro |  | Anchorage. High tide only. Access to Gumbule boarding school. |
| Kerembei  (Central W) |  | Main port for North side of Island |
| Narovorovo |  | Main port for south side. Good landing craft site (wharf destroyed). |
| Nasawa |  | Landing craft |
| Asetaleva |  | Anchorage |
| Asanvwari  (S) |  | Landing craft. Good Anchorage site |
|  |  |  |

**Road transport**

There is a road from Naomumu in the North West until Baitora towards the South West. It is 4WD only after heavy rain.

A cross road exists from Betarara through the middle of the island past Rongonawo/ Ngota communities, to Naviso on the East Coast.

Health centre has one truck, and 5 private trucks from central to North

Transport from Airport to central Maewo is 3000vt and 5000vt to Nasawa

**Major health care facilities and services.**

The community centre is located a Kerembei. A health clinic, and police station are located there

**Major Evacuation centres**

Naone primary school in North West

Gumbule School in Central West

Nasara primary school in South West.

Naviso Evacuation centre on East coast.

Betarara Church East Coast