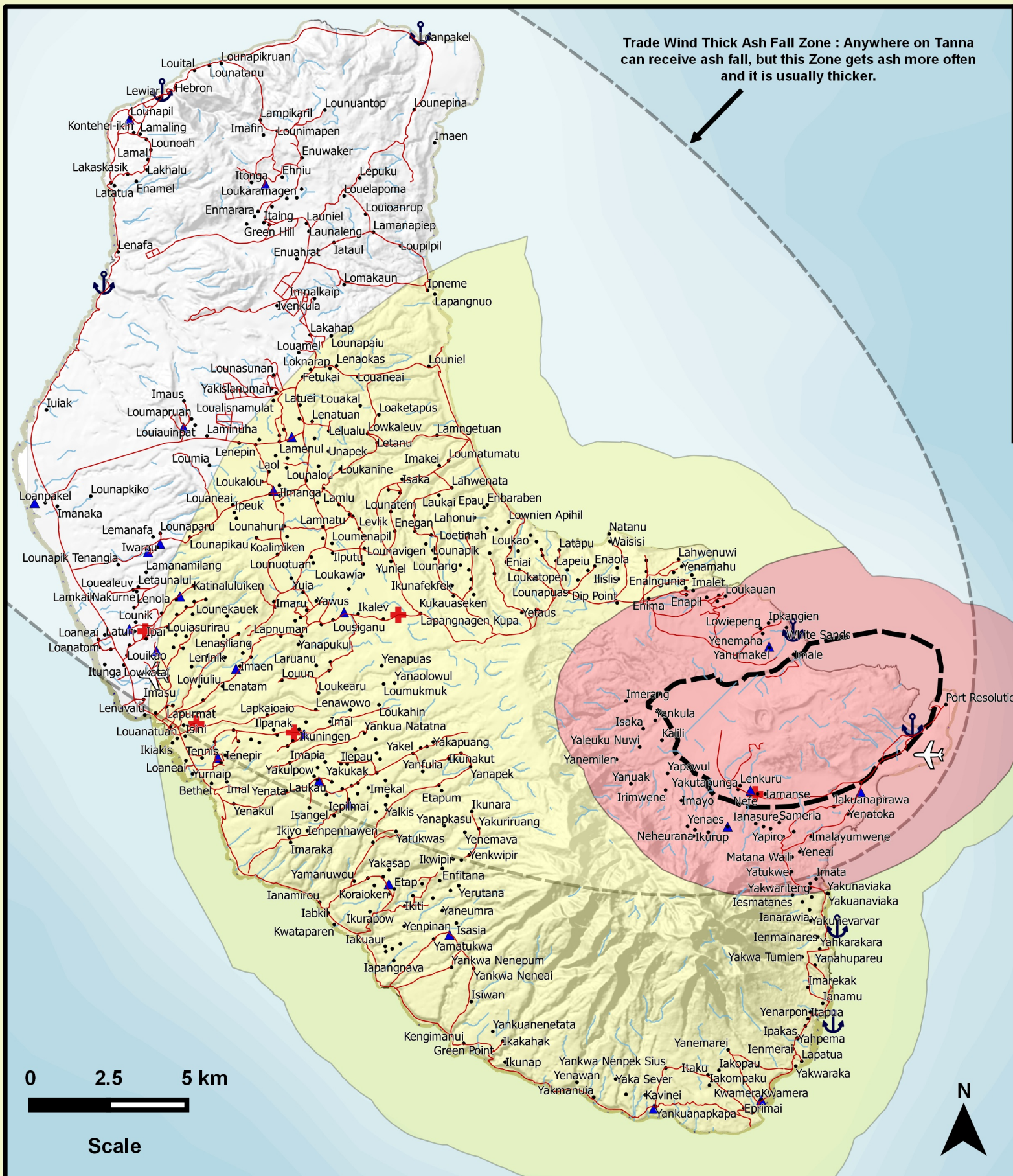


TANNA LONG-TERM BACKGROUND VOLCANIC HAZARDS MAP



Trade Wind Thick Ash Fall Zone : Anywhere on Tanna can receive ash fall, but this Zone gets ash more often and it is usually thicker.

Hazards from Caldera (very large) eruptions:

- Flying rock and gas Zone
- Eruption large lahar Zone
- Dangerous flow Zone
- White Trade Wind Thick Ash Fall Zone
- Rivers - Rain Triggered Lahar Danger
- Caldera edge
- Villages
- Schools
- Health Facilities
- Anchorages
- Airports
- Roads

KEY

WHAT TO DO

Large eruptions can happen from the caldera:

During a large eruption if you are in the Red Zone:

- Wear a hard hat- it will help protect you, but it will not stop larger volcanic bombs. Watch for volcanic bombs in the air - especially after explosions.
- Stand still unless you see bombs that are not moving left/right or front/back-these are coming towards you, and you should avoid them.
- Bombs suddenly come very fast as they get closer, even though they seem to move slowly at first. The time from an explosion to bombs landing at the rim is often only a few seconds.
- Wear gas mask or cover your nose with a cloth – it will help protect you against volcanic gases.
- Lava flow can occur from new fissure vents – They can move faster at the steep area and down valleys.
- Falling into the crater is also a danger, the closer you are to the edge of the crater the more chance of slipping.
- After heavy rain stay out from rivers valleys where you have seen the volcanic ash deposits.

Ash fall:

- Be prepared for ash fall in any eruption particularly in *White Zone*. See "Living with volcanoes" booklet available from <http://www.geohazards.gov.vu>

Be aware that parts of the **Yellow Zone** can be dangerous in very large eruptions - follow the advises of the National Disaster Management Office (NDMO).

Also read the Safety Map:

- Volcanic craters (A , B , M and C) within the **Red Zone** are in regular eruption. There is a separate Safety Map that shows the Permanent Exclusion Zone and Danger Zones may also be closed during increased activity.
- Read and understand the Yasur Safety Map and check which zone (s) are closed in the latest Volcano Alert Bulletin of Yasur- click on : <http://www.geohazards.gov.vu>

VOLCANIC HAZARDS

Red Flying Rocks and Gas Zone:

- During an eruption there may be gas and flying rocks from eruptive vents, especially within the Red Zone.

Yellow Eruption Large Lahar or mud flows Zone:

- Parts of the Yellow Zone may be affected by flows from very large eruptions from the caldera in the middle of the island.
- Eruptions generate very hot pyroclastic flows of ash, rock and gas. These move down slopes very fast (up to hundreds of km per hour) within the Yellow Zone.
- Lava flows of molten rock are very hot but do not move as fast as pyroclastic flows.

White Trade Wind Thick Ash Fall Zone:

- During an eruption areas in the White Zone can be affected by particularly thick ash fall following the trade wind direction - especially SE wind.

Rain triggered river valleys lahars or mud flows:

- All rivers, especially those in the White Ash Zone can generate lahars (volcanic mudflows) following rainfall which flow down valleys.



Disclaimer

Hazard Zones are not definitive.

This map is an interpretation based on historical and geological records.

Volcanic activity may be unpredictable.

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