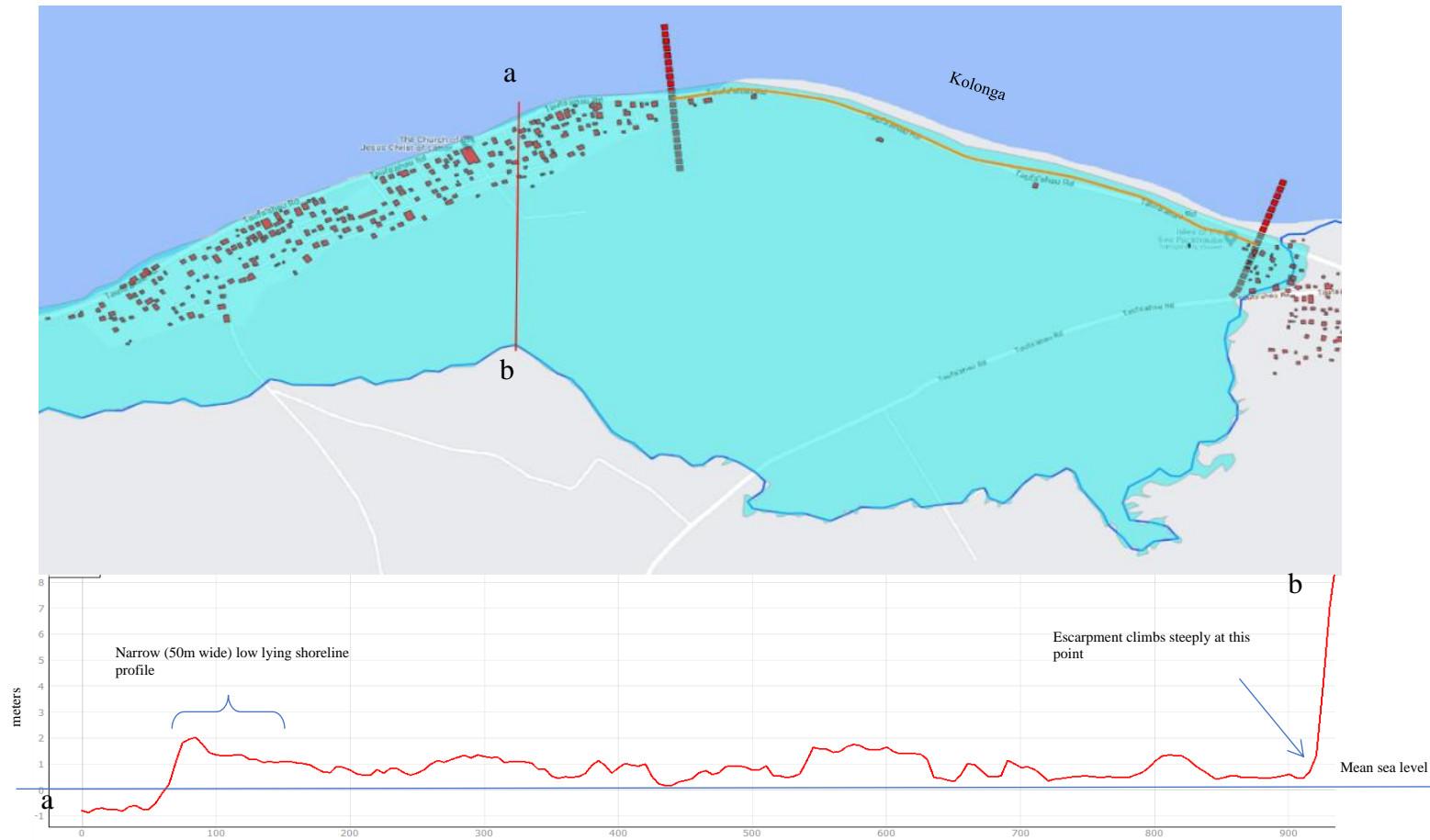


The low lying vulnerable component of the Hahake Peninsula coast is approximately 8km in length. Previous engineering by SPC (EU funding, 2011), CRSP Project (ADB funding, 2018) and the Govt of Tonga (2017) secured a total 2.8km of this length. A further 0.8km was assessed in 2016 as a functional soft shore and was valued for local recreational uses, in this location the main road is also positioned well inland and there are few built assets, thus this will not be disturbed. The remaining vulnerable sections are Nukuleka (2.3km) and Kolonga 2.025km. The Nukuleka section has been engineered in the past, but these works are in very poor condition and no longer protect infrastructure or the community. A limestone revetment will be built over this section. On the Kolonga section the Project does not intend to disturb the foreshore because of its ecological value but rather will provide marine flooding protection via road raise and armoring on the seaward flank.

The figure consists of three maps illustrating the location of Nukuleka in Tonga. The left map shows the South Pacific Ocean with Tonga's location. The middle map shows the South Pacific with Tongatapu and Nukuleka highlighted. The right map shows a detailed view of Nukuleka and surrounding areas like Kolonga and Hahake.

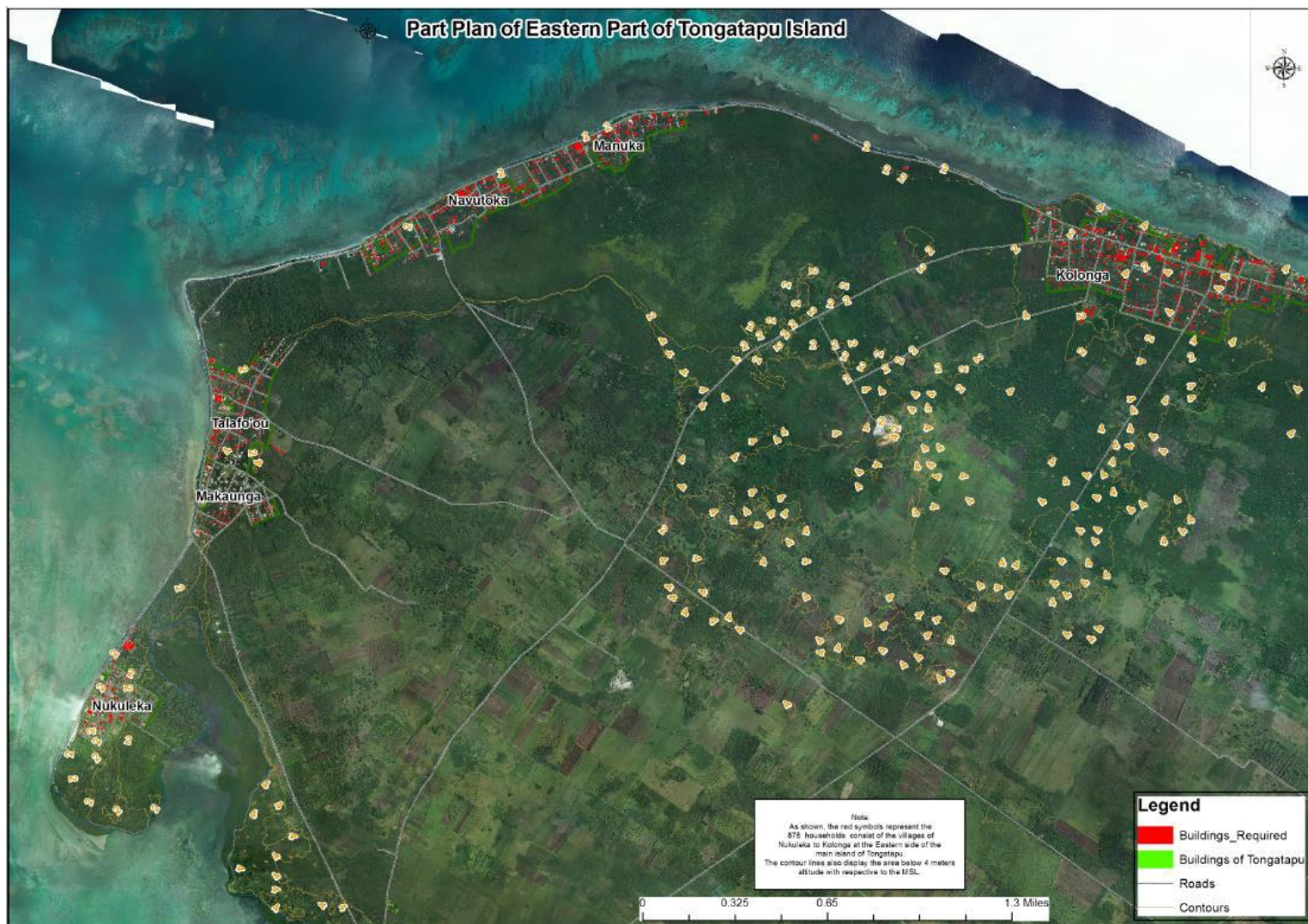
Map 2. Detail of the low-lying Hahake Peninsula on Tongatapu Island.



Map 3. Area of Interest - Hahake, Tongatapu.



Map 4. Buildings in area of interest.

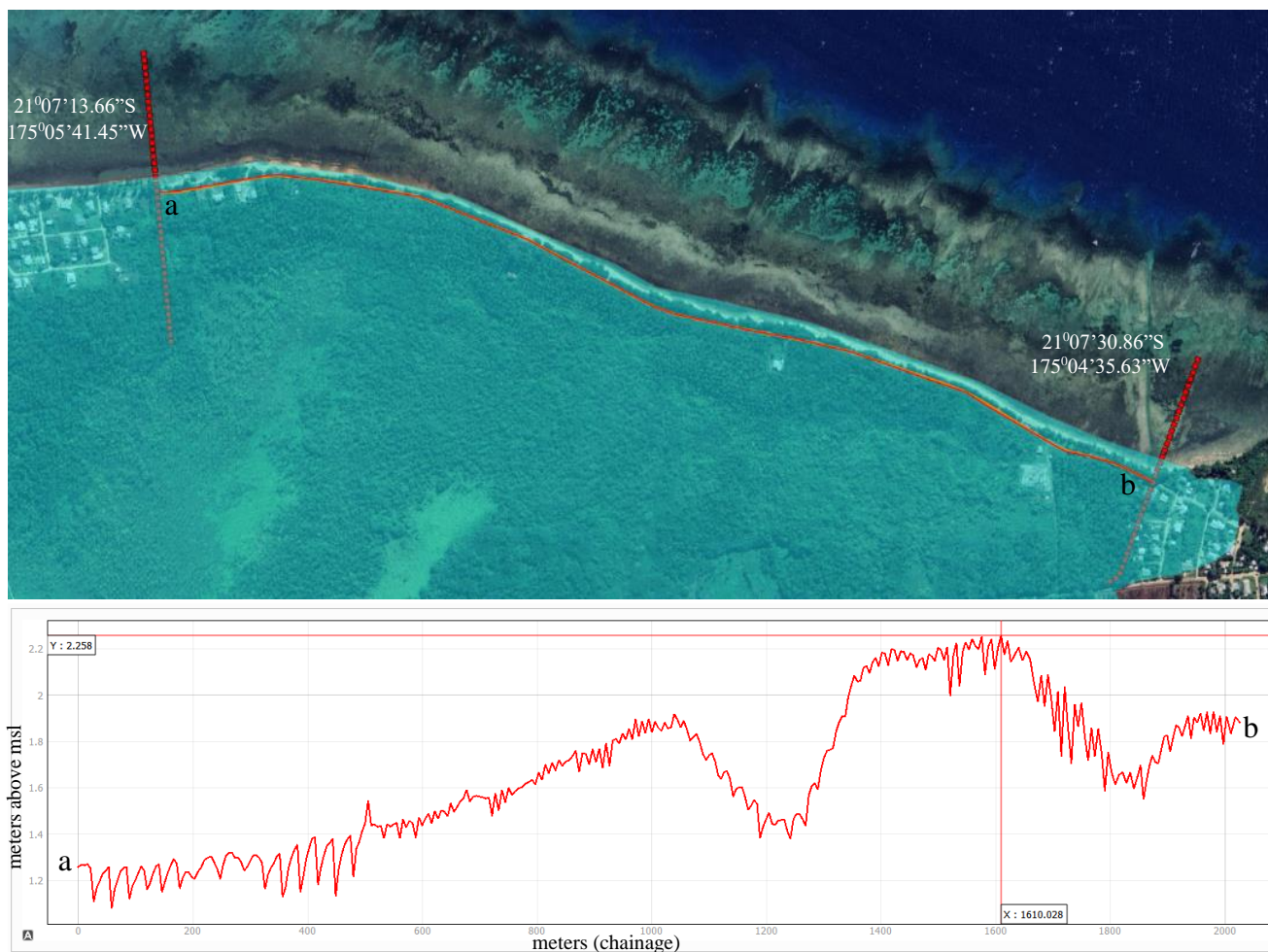


Map 5. Location of Sub-activity 3.1.2.1 Construction of 2.3kms of reventment

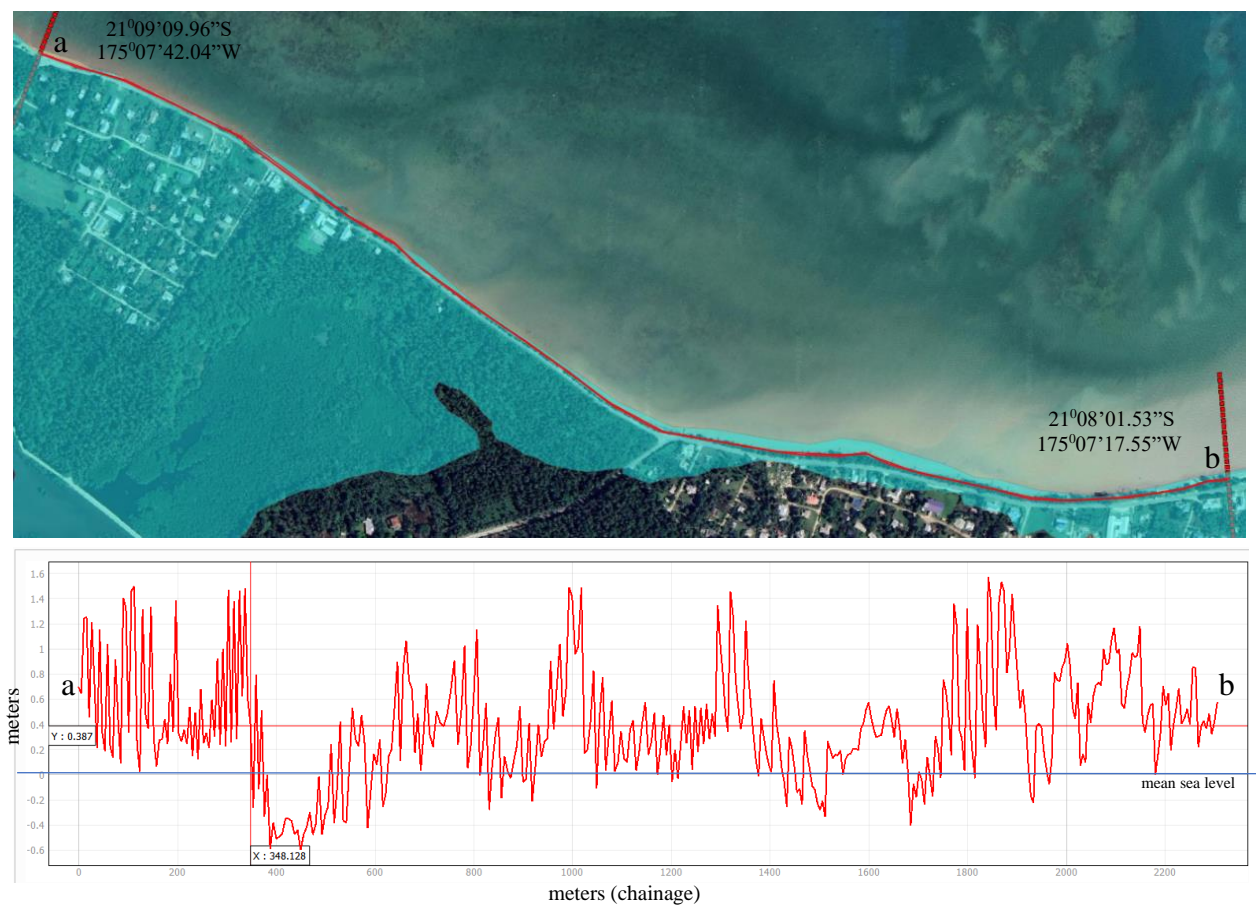
Nukuleka - Talafo'ou (left side, red line) & Sub-activity 3.1.2.2 Construction of 2.025kms of coastal protection measures developed for the Manuku to Kolonga shoreline (Right side, orange line)



Map 6. Chainage along the Nukuleka proposed revetment site shown via elevation profile.



Map 7. Chainage along the Kolonga proposed raised road site shown via elevation profile.



Map 8: Direct beneficiaries:

Please see below for a graphical representation of the direct beneficiaries. The map below shows the island of Tongatapu. The red circle shows the capital Nuku'alofa. Both the Pink and the Purple areas are covered under the Island-level spatial development plan for Tongatapu. The Purple area shows the villages directly impacted by the coastal resilience works as per the table above and covers the total direct beneficiaries.

