

Beachrock



Top : numerous diachronic beachrocks (Loop islet, Chesterfield) unfavorable for accessibility to nesting areas; middle: multi-beds stair-like beachrock (Baille islet, Eastern Lagoon); bottom : mature turtles trapped at low tide by a stair-like beachrock (Huon islet, Entrecasteaux)



Top left: inline slope without protruding beachrock (Ange islet, Western Lagoon); top right : beachrock perpendicular to the beach (Ténia islet, Western Lagoon) ; Middle left: surelevated beachrock constituting an obstacle for turtle nesting (Ronde islet, Western Lagoon); Middle right : blocks of dismantled beachrock (Petit-Tenia islet, Western Lagoon) constituting an unfavourable factor for the access to nesting areas; Bottom left: weathered and holed beachrock (Amédé islet, Southern Lagoon); Bottom right : raised and dismantled beachrock (Signal islet, Western Lagoon)



*Left: polyphased erosion scarp constituting an obstacle to nesting sites' access (M'Bo islet, Western Lagoon);
Right: Relatively high but regularized erosion scarp which is not an obstacle to accessing a favourable nesting area (left of the scarp, Larégnère islet, Western Lagoon)*

Tree stumps, roots and plant debris



Left: coastal segment of the Kondoyo islet affected by an active erosion. To note the presence of numerous stumps, roots and woody debris constituting obstacles to nesting sites' access; Right : numerous wood debris, stumps and roots at Petit Ténia islet (Western Lagoon).

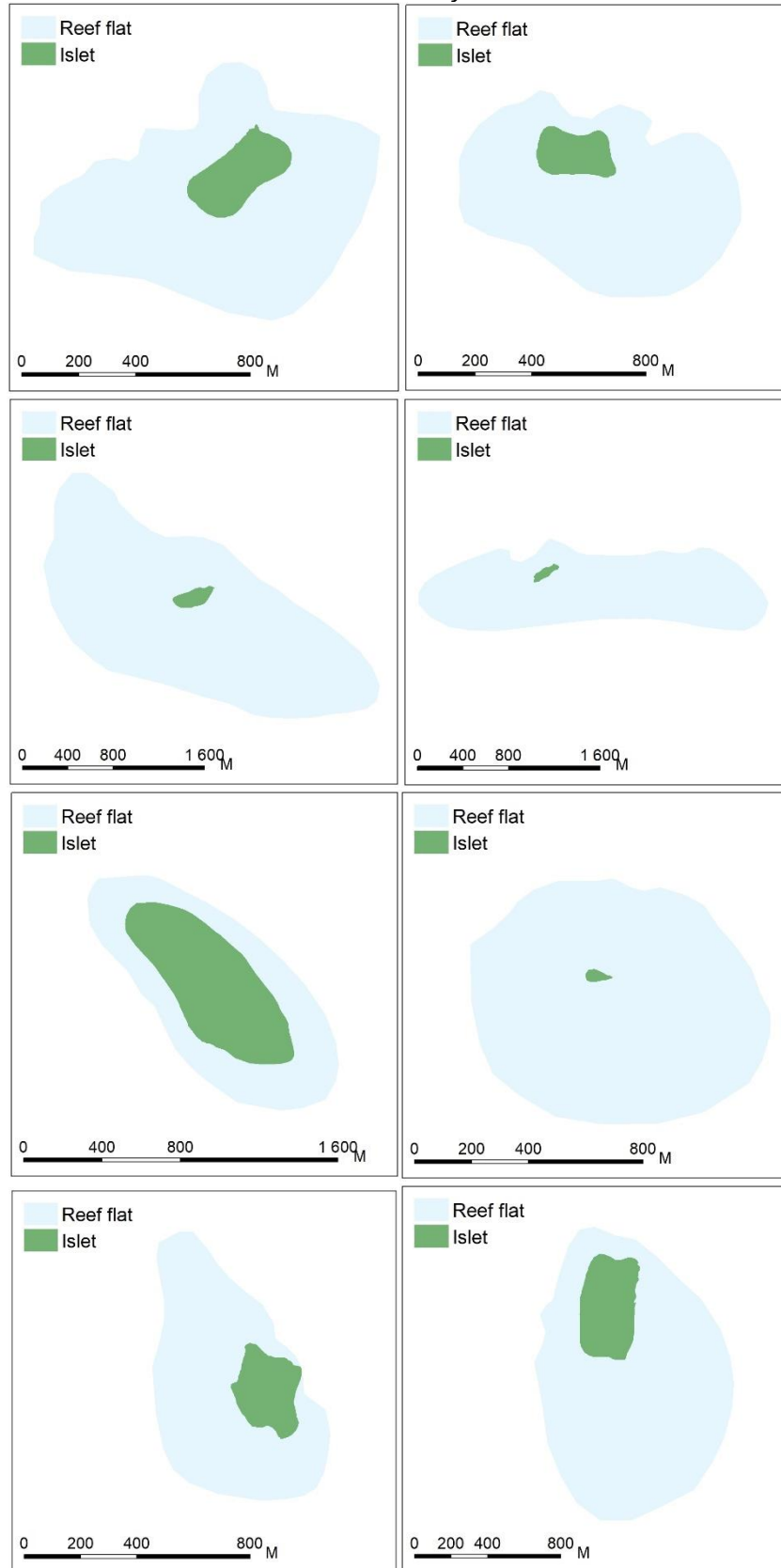


Left : coral debris ridges unfavourable for turtle nesting (South of M'Ba islet, Western Lagoon) ; Right : coarse coral debris ridge unfavourable for turtle nesting (Ana islet south of Isle of Pines, Southern Lagoon).

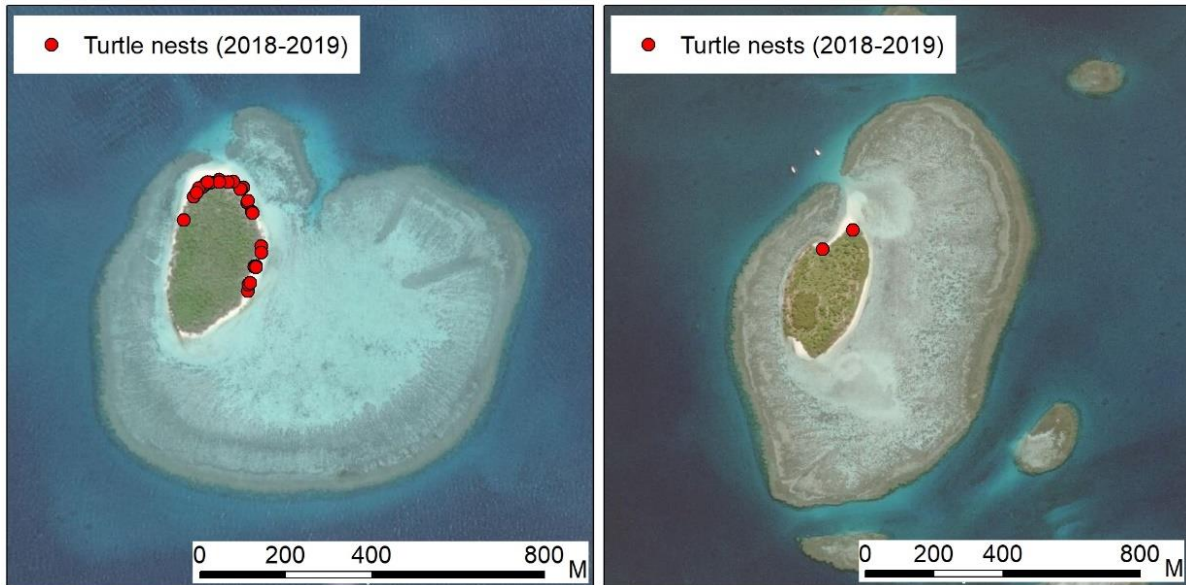


Left: fine sand beach with some coral debris in the upper beach (Amédée islet, Southern Lagoon) ; Right : fine sand beach with gentle slope with sparse vegetation backshore in an accretional coastal segment of the Ronde islet (Western Lagoon) – very Favourable site for turtle nesting.

Reef-flat wideness variability around the islets



Reef-flat wideness (light blue) variability around the islets (green) in the New Caledonian lagoon. From top to bottom and from left to right, the islets: Amédée, Goldfield, Kondoyo, Larégnère, M'Ba, Pandanus, Petit Ténia, Signal.



Example of relation between nests location and reef-flat wideness and existing reef-passes (2018-2019); left : N'Gé islet; right : Lérroué islet



Example of a set of defavourable factors for turtle nesting : stair-like beachrock, high erosion scarp, roots and and shrub stumps and relatively dense shrub on the backshore