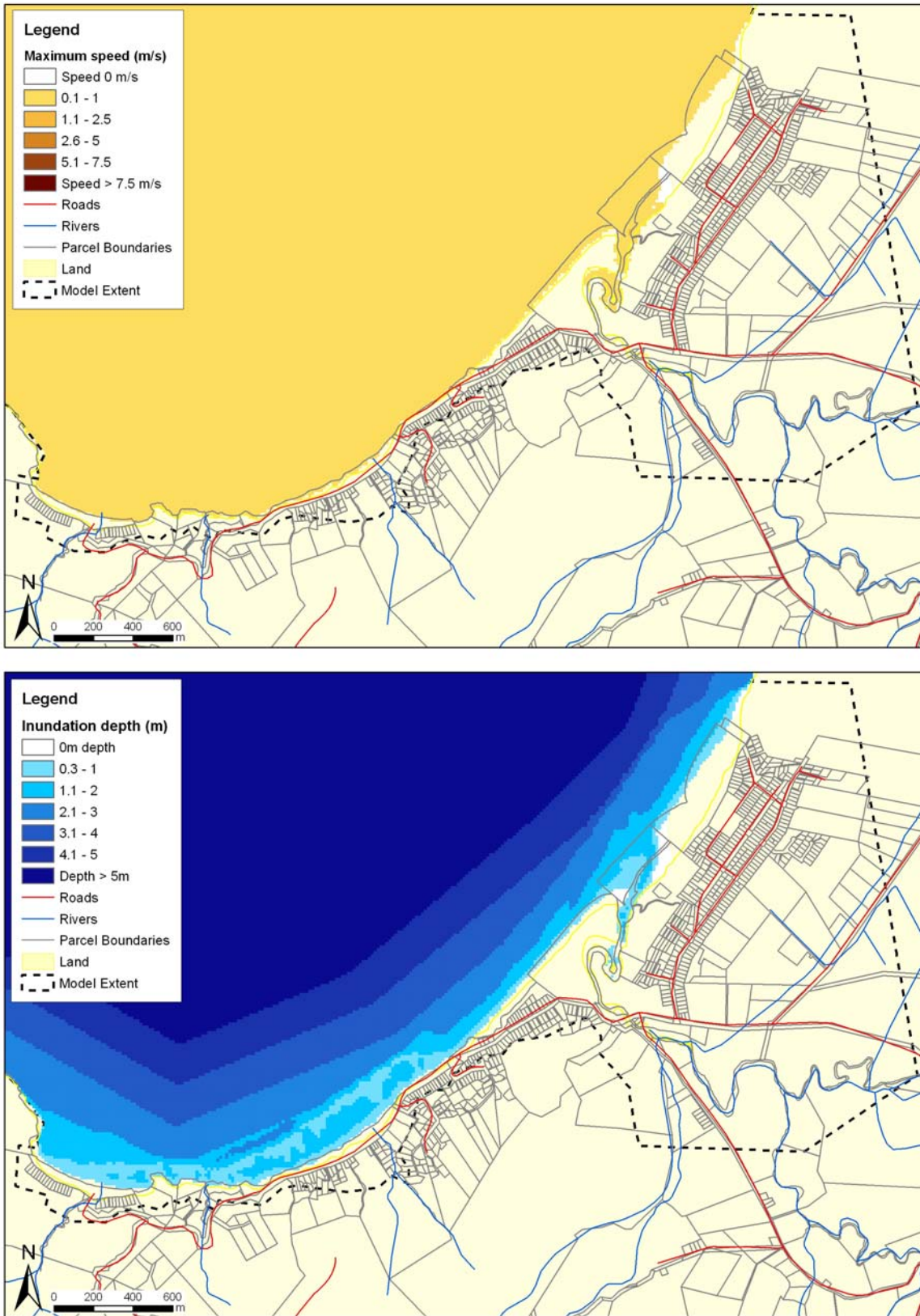


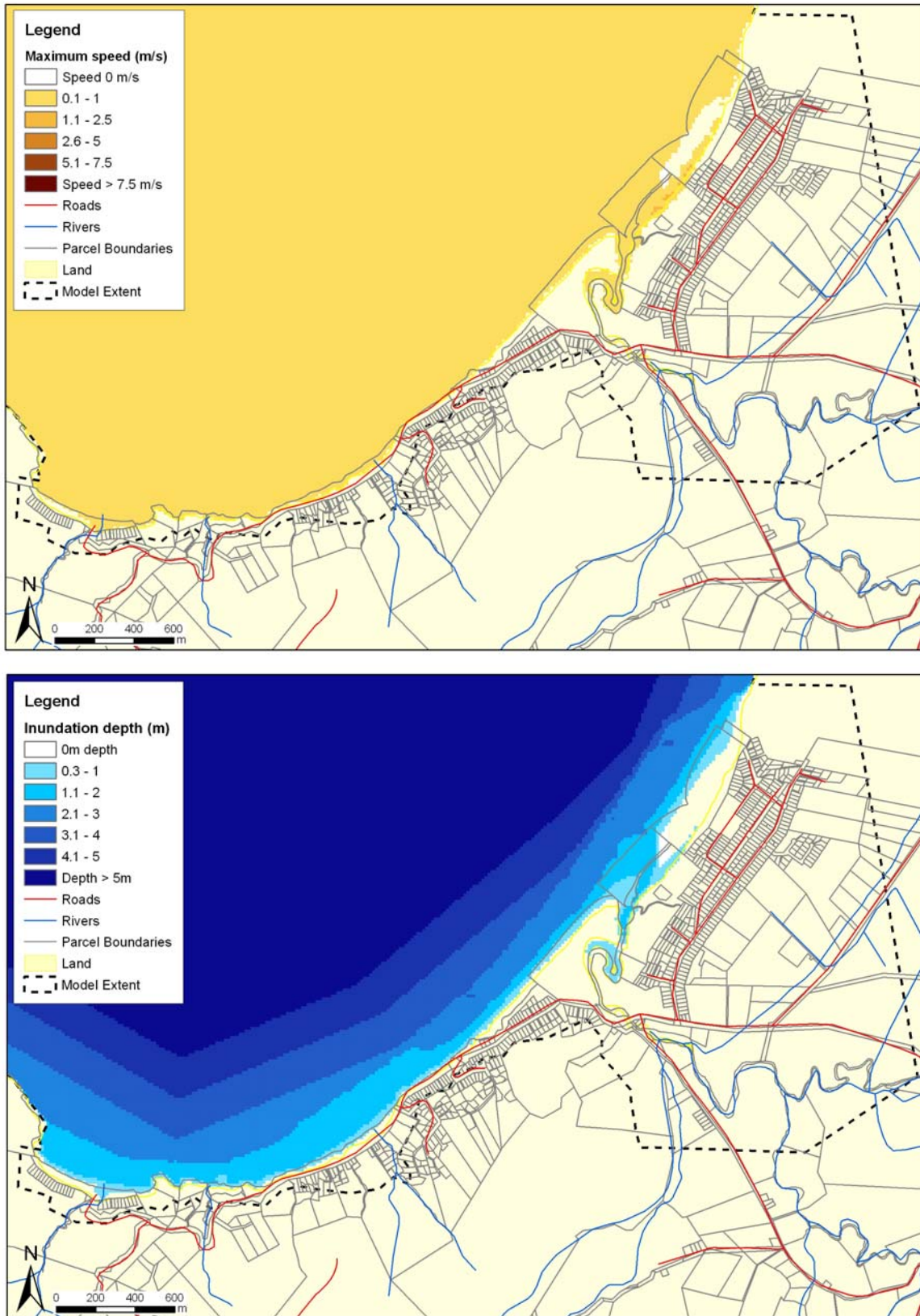
#### **4.4. Ahipara**

##### **4.4.1. Inundation Maps – South American tsunami**

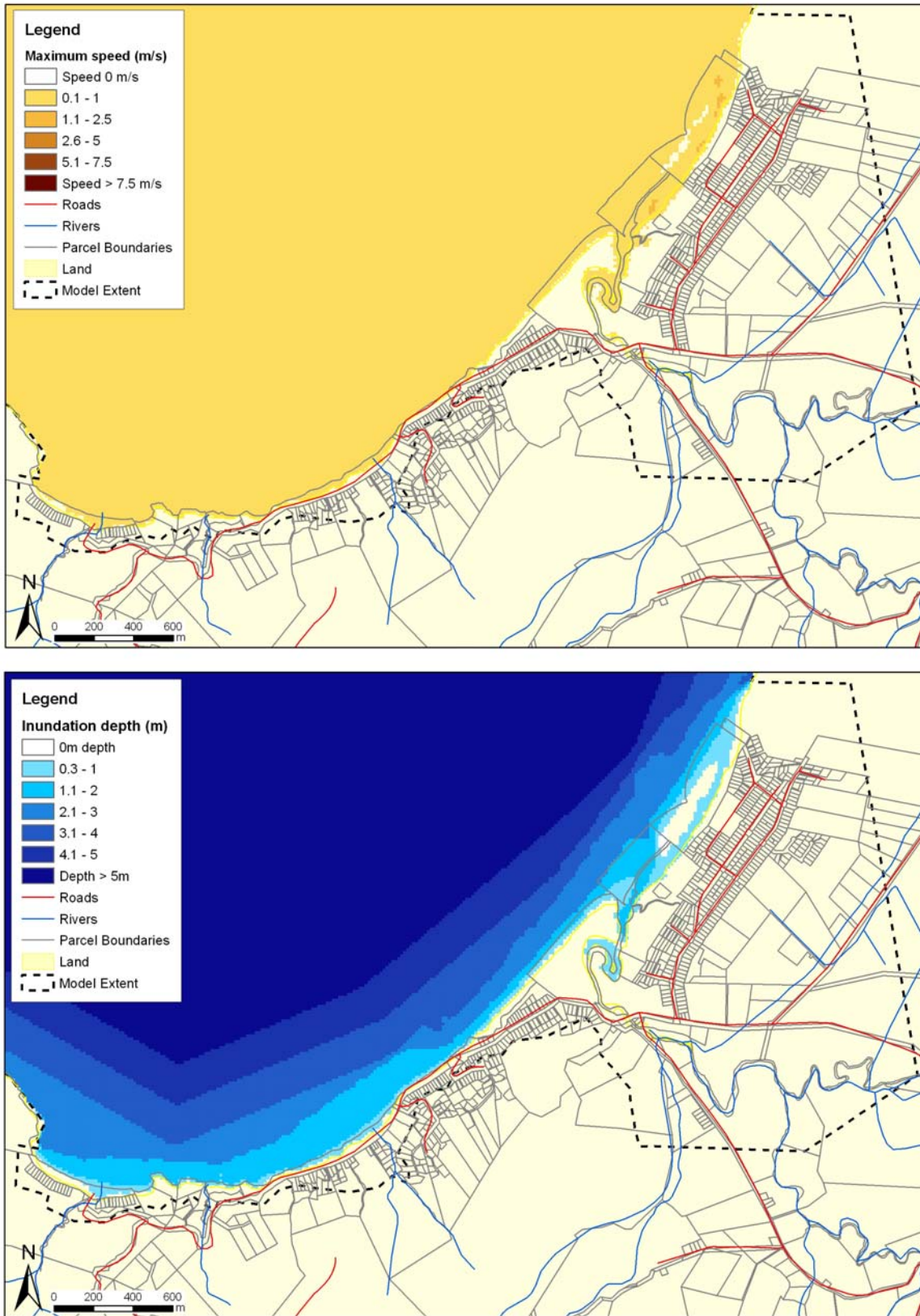
At MHWS and MHWS plus 30 cm the most significant inundation occurs along Wairoa Stream. The inundation depths increase for the sea level rise scenarios. The most significant impact of this increase is the inundation seaward of Korora Street. Enhanced water speeds in the 30 and 50cm scenarios seem likely to lead to significant coastal erosion. Maps showing maximum inundation and maximum water speed for the remote South America tsunami for the three sea levels are given in Figures 34, 35 and 36.



**Figure 34:** Ahipara: Maximum inundation speed (upper) and depth (lower) plots for the South American tsunami scenario at MHWS (to extent of LIDAR).



**Figure 35:** Ahipara: Maximum inundation speed (upper) and depth (lower) plots for the South American tsunami scenario at MHWS + 30cm (to extent of LIDAR).



**Figure 36:** Ahipara: Maximum inundation speed (upper) and depth (lower) plots for the South American tsunami scenario at MHWS + 50cm (to extent of LIDAR).