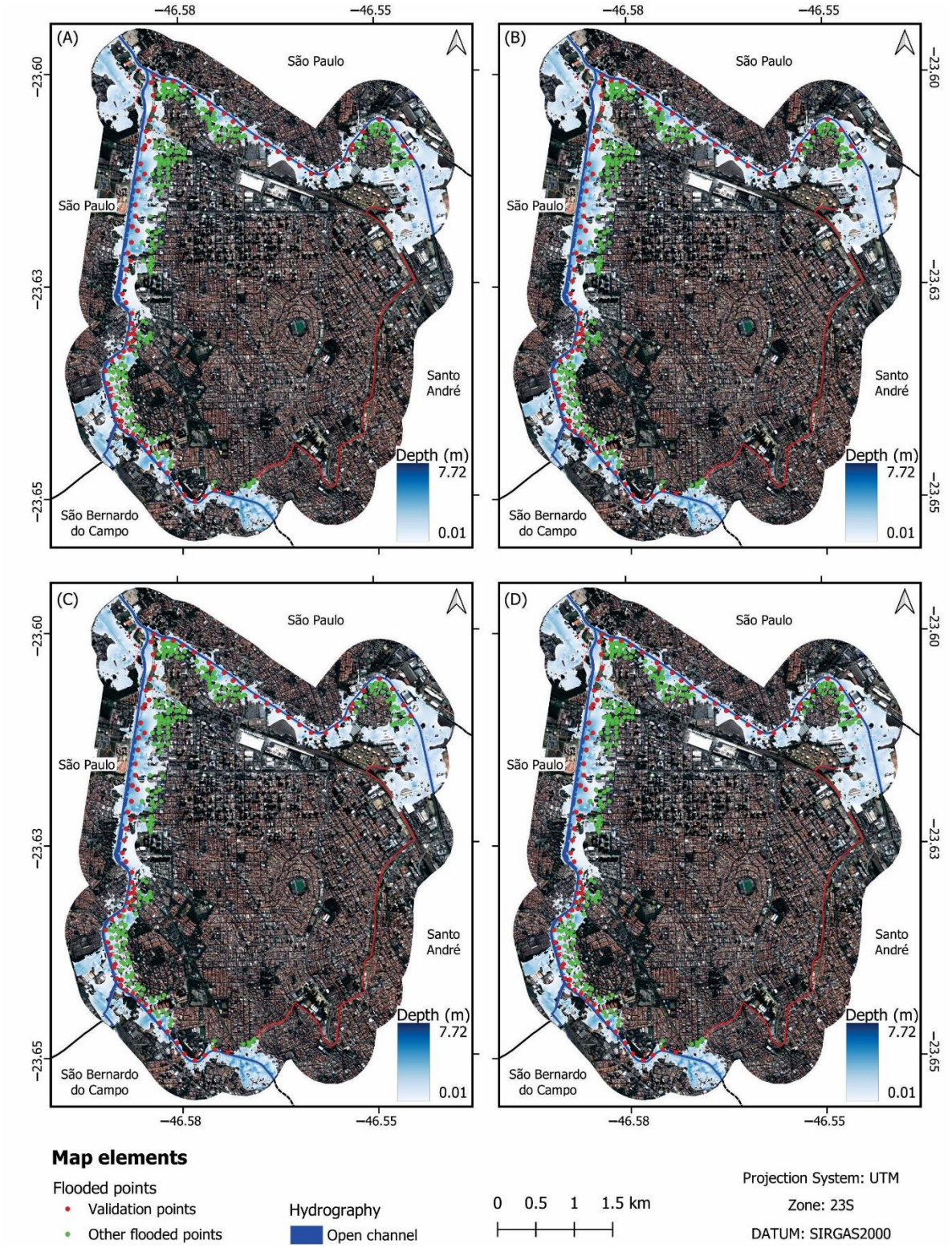
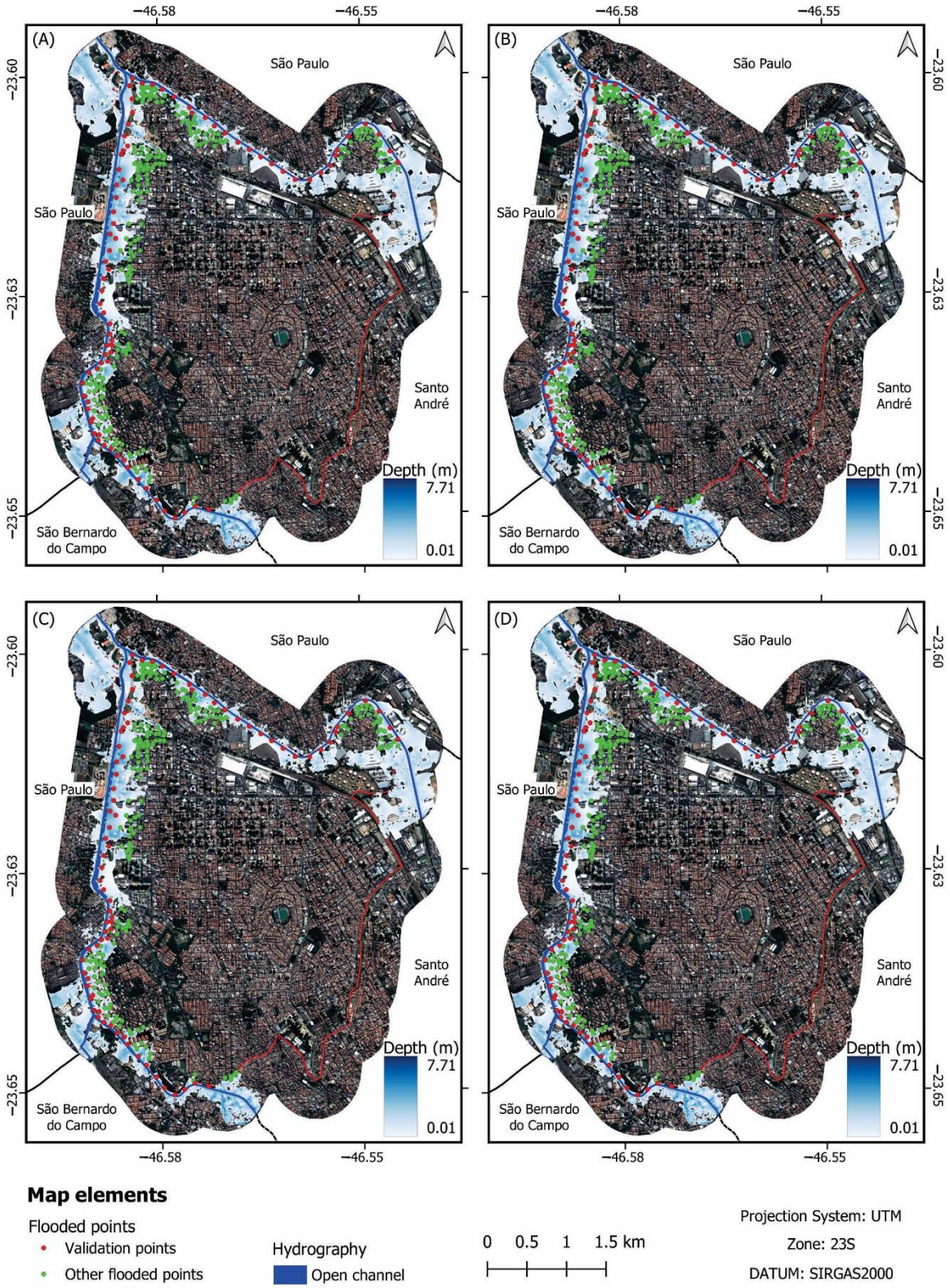
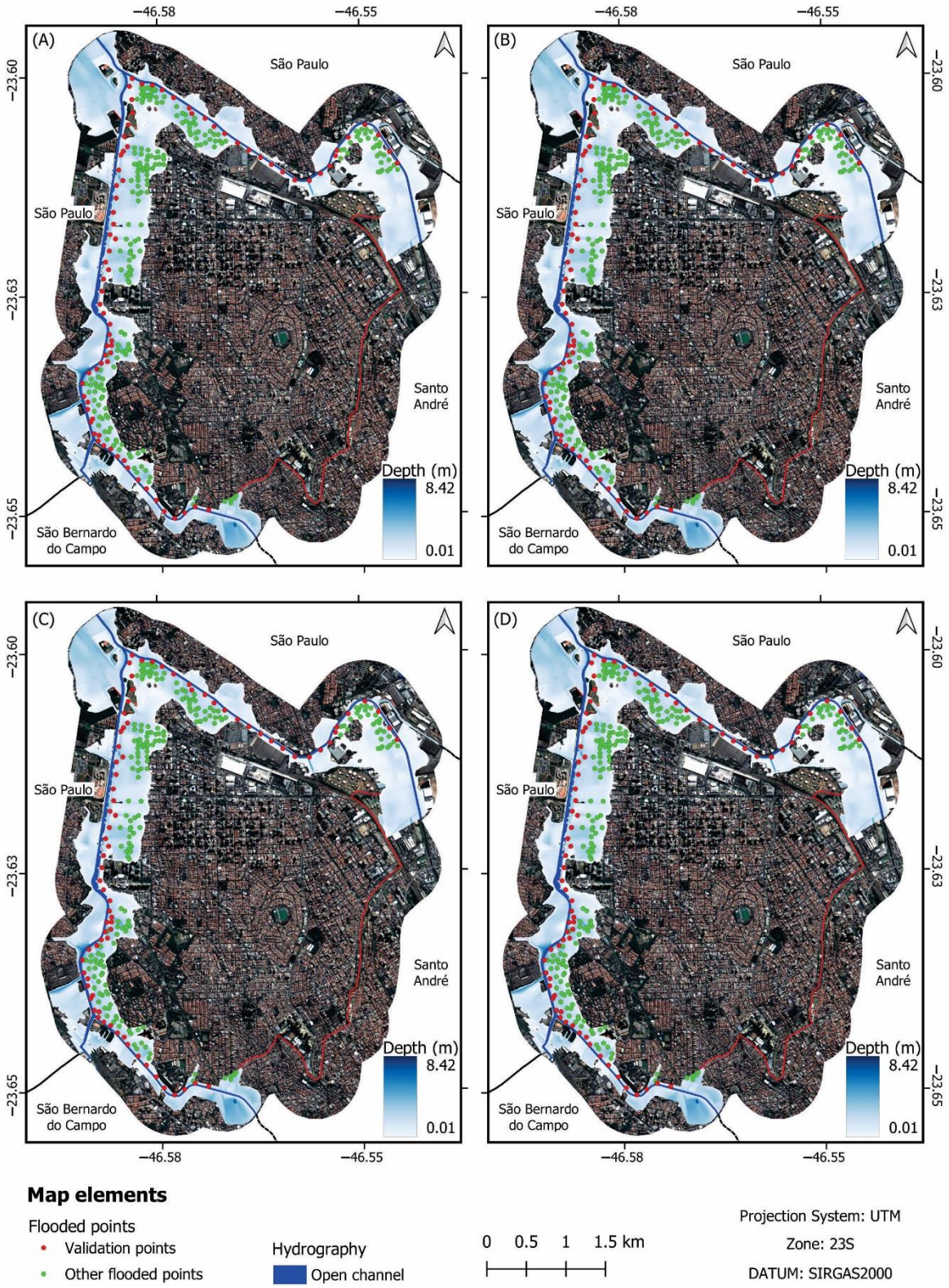
1. Supplementary Figures



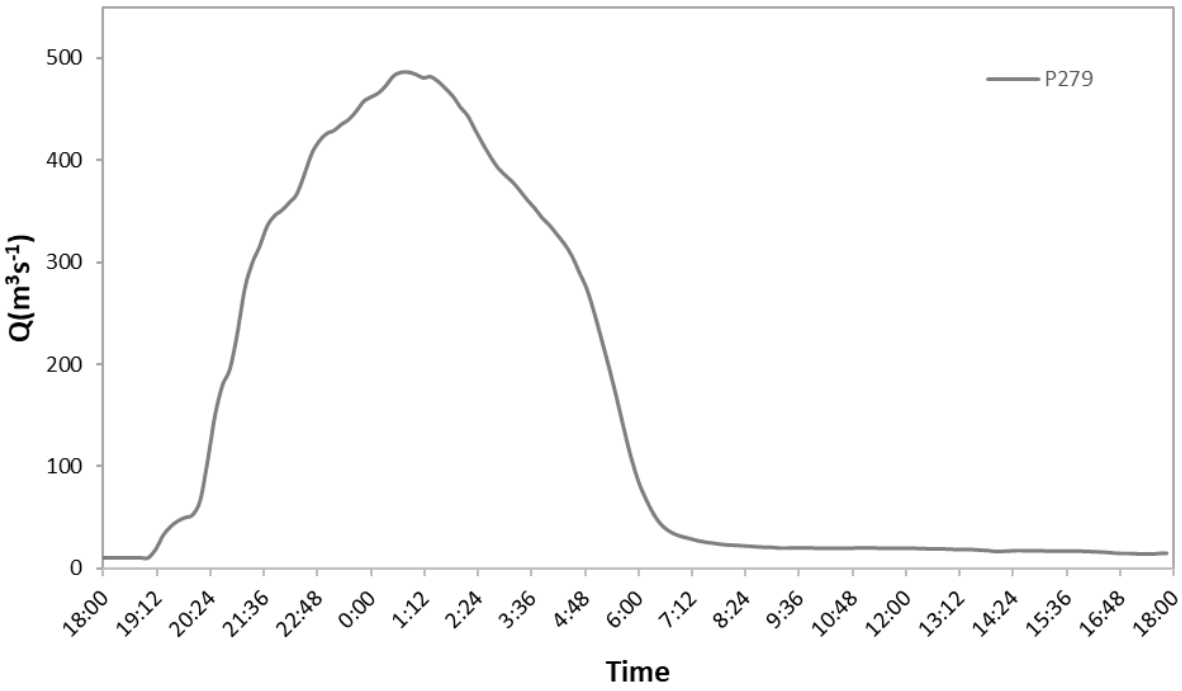
Supplementary Figure S1. Flood maps generated in HEC-RAS using the finer DTM (0.50 cm). (A) represents the simulation with computing interval of 1 s; (B) computing interval of 15 s; (C) computing interval of 30 s; (D) computing interval of 60 s.



Supplementary Figure S2. Flood maps generated in HEC-RAS using the finer DTM with refined channel mesh (0.50 cm). (A) represents the simulation with computing interval of 1 s; (B) computing interval of 15 s; (C) computing interval of 30 s; (D) computing interval of 60 s.



Supplementary Figure S3. Flood maps generated in HEC-RAS using the EMPLASA DTM (5 m). (A) represents the simulation with computing interval of 1 s; (B) computing interval of 15 s; (C) computing interval of 30 s; (D) computing interval of 60 s.



Supplementary Figure S4. Hydrograph of the flow rate at the Stream Gauge Station 279 on March 10 of 2019.