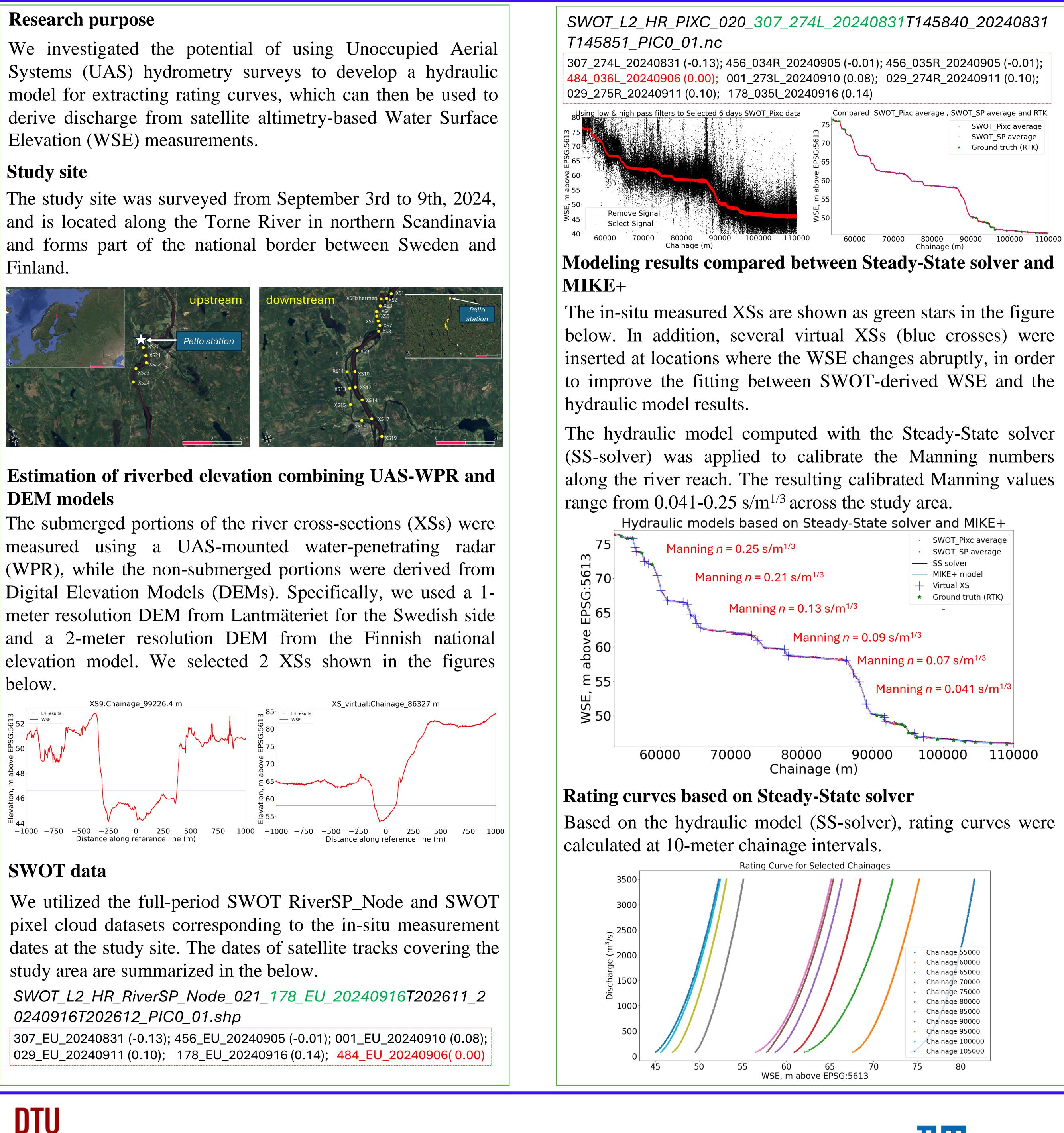
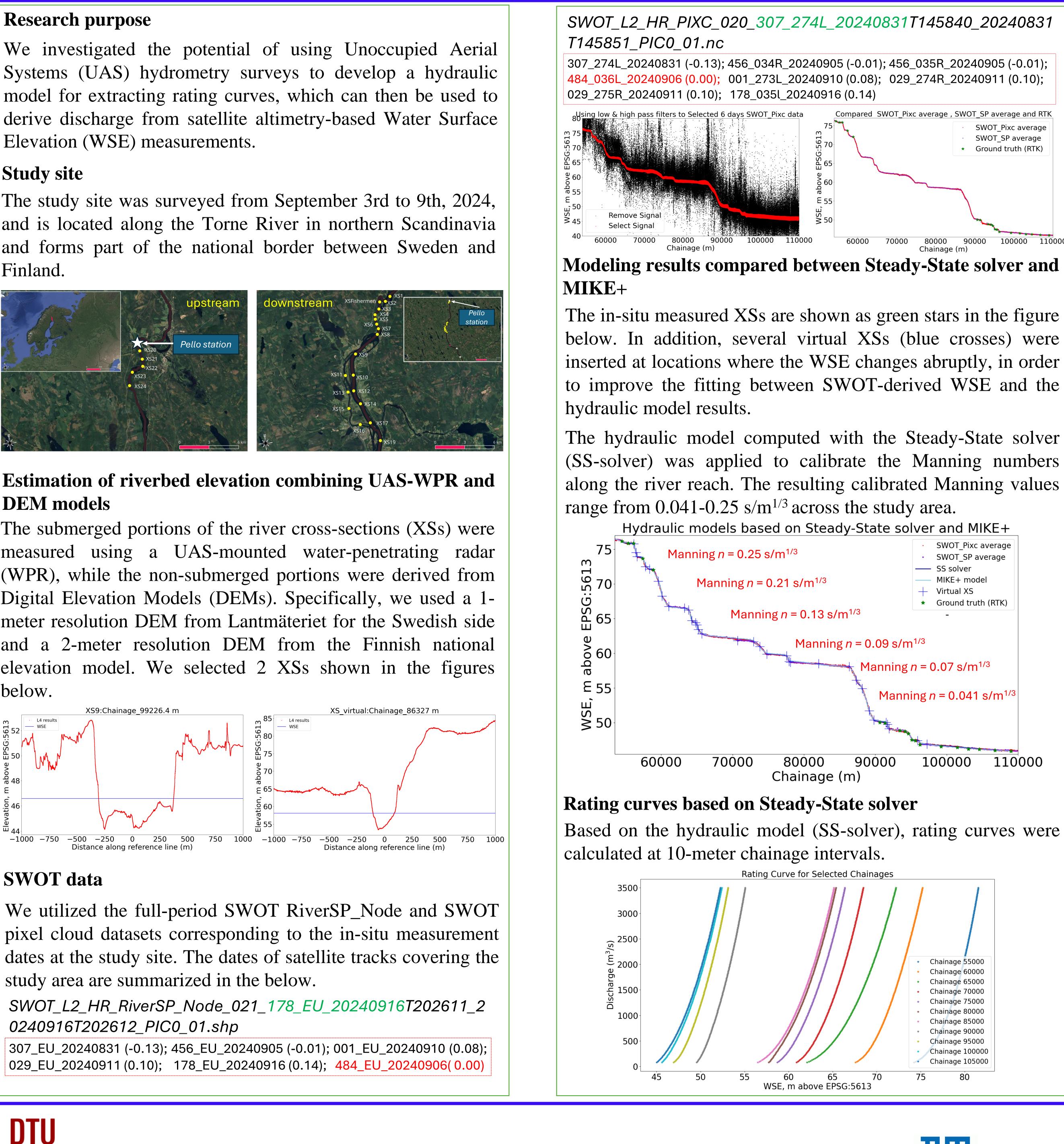
Virtual station rating curves derived from hydraulic models informed with UAS hydrometry and SWOT WSE

Zhen Zhou^{1,7}, Freja Damgaard Christensen², Villads Flendsted Jensen³, Michael Andreas Pedersen³, Janiel Wennerberg⁴, Viktor Fagerström⁴, David Gustafsson⁴, Daniel Cendagorta⁵, Maria Jose Escorihuela⁶, Peter Bauer-Gottwein^{1,7}

¹DTU Space, Technical University of Denmark, Kgs. Lyngby, Denmark; ³Drone Systems Aps, Aarhus, Denmark; ⁴SMHI Sveriges Meteorologiska och Hydrologiska Institut, Norrköping, Sweden; ⁵Lobelia, Doctor Trueta 113, 08005 Barcelona, Catalunya; ⁶isardSAT, Doctor Trueta 113, 08005 Barcelona, Catalunya;















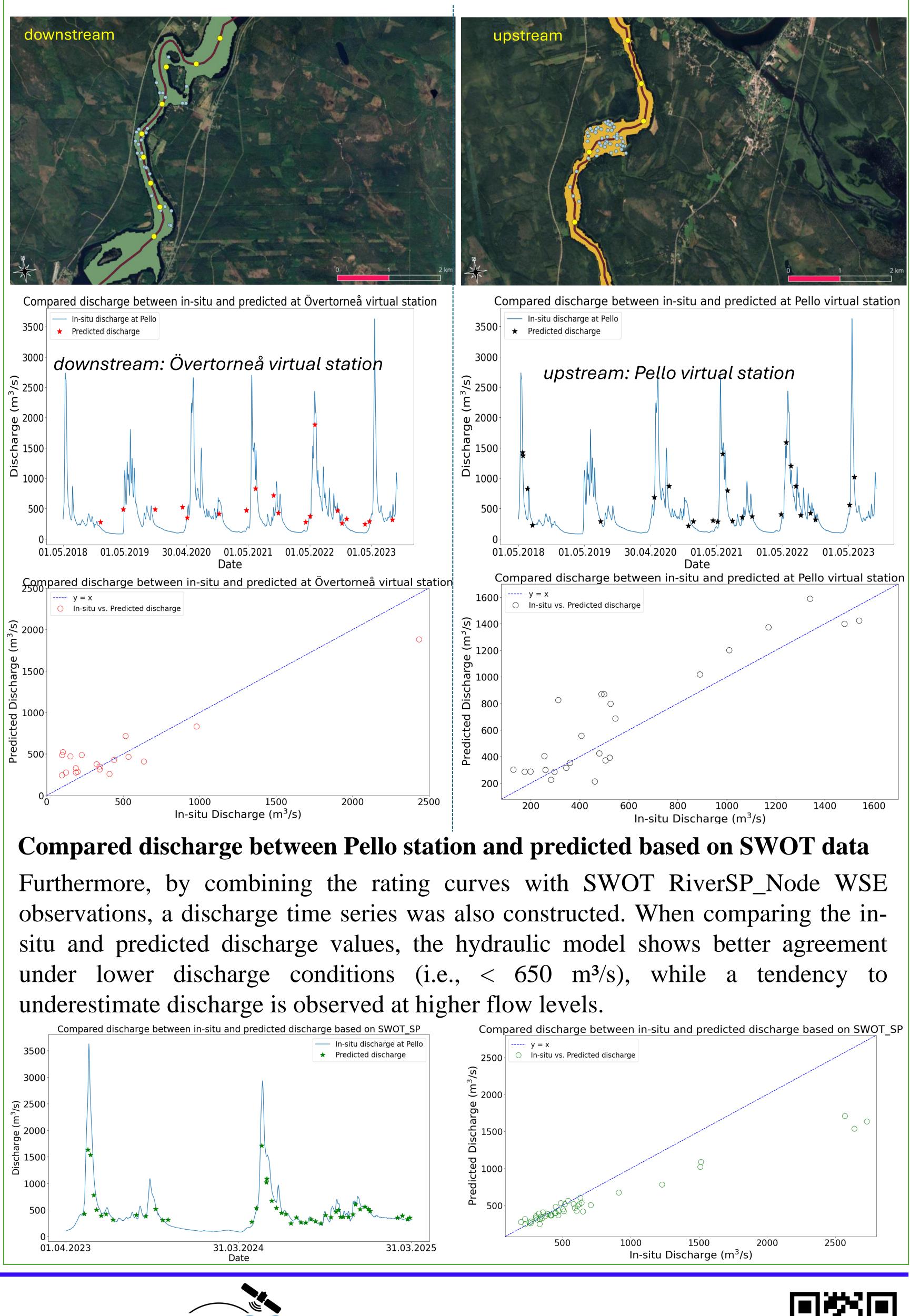






Compared discharge between Pello station and predicted discharge at Sentinel-3 virtual station

Based on the rating curves and Sentinel-3 observations, a discharge time series was constructed. Two virtual stations were positioned at the upstream and downstream sections of the river.



Lobelia.







