

Brief communication: Network-wide parameterisation for estimating snow water equivalent through cosmic ray neutron sensors in the Italian Alps

Supplementary Materials

Table S1: Overview of the network with sites ordered by ascending elevation. Bold font indicates sites where manual SWE measurements are available; asterisks indicate the sites where part of the data was used for calibration.

Name	Elevation [m a.s.l.]	Latitude [° N]	Longitude [° E]	Time Series Length
Lisser*	1422	45.9543	11.6510	11/08/2023 – 01/09/2025
Campogrosso	1462	45.7285	11.1684	12/11/2023 – 01/09/2025
Palantina	1492	46.1189	12.4759	26/09/2023 – 01/09/2025
Sant'Antonio	1495	46.5720	12.4858	21/12/2023 – 01/09/2025
Faverghera	1603	46.0751	12.3013	07/08/2023 – 01/09/2025
Larici*	1606	45.9636	11.4193	10/08/2023 – 01/09/2025
Campomolon*	1732	45.8732	11.2729	10/10/2023 – 01/09/2025
Monte Baldo	1756	45.7731	10.8657	13/09/2023 – 01/09/2025
Malga Losch	1757	46.2624	11.9595	06/10/2023 – 01/09/2025
Casera Doana	1887	46.4812	12.5410	19/09/2023 – 01/09/2025
Baldi*	1913	46.4152	12.0731	21/09/2023 – 01/09/2025
Coltrondo	1929	46.6652	12.4435	20/09/2023 – 01/09/2025
Cima Dodici	1965	45.9790	11.4868	18/07/2024 – 01/09/2025
Val Visdende	2001	46.6538	12.6174	09/11/2023 – 01/09/2025
Cherz*	2010	46.5153	11.8782	01/11/2023 – 01/09/2025
Monte Rite	2013	46.3823	12.2484	09/07/2024 – 01/09/2025
Fadner	2155	46.9256	11.8614	25/10/2024 – 01/09/2025
Pradazzo*	2195	46.3559	11.8227	25/11/2023 – 01/09/2025
Ornella	2227	46.4757	11.8863	05/10/2023 – 01/09/2025
Cavalli	2255	46.4694	10.8194	30/10/2024 – 01/09/2025
Monte Piana	2262	46.6134	12.2503	05/10/2023 – 01/09/2025
Tre Cime	2375	46.6176	12.3178	10/07/2024 – 01/09/2025
Sestriere	2490	44.9540	6.9111	15/10/2023 – 01/09/2025
Nivolet	2555	45.5192	7.1714	02/01/2024 – 01/09/2025
San Martino	2580	46.2793	11.8864	11/07/2024 – 01/09/2025
Mosso	2901	45.8754	7.8717	28/12/2023 – 01/09/2025

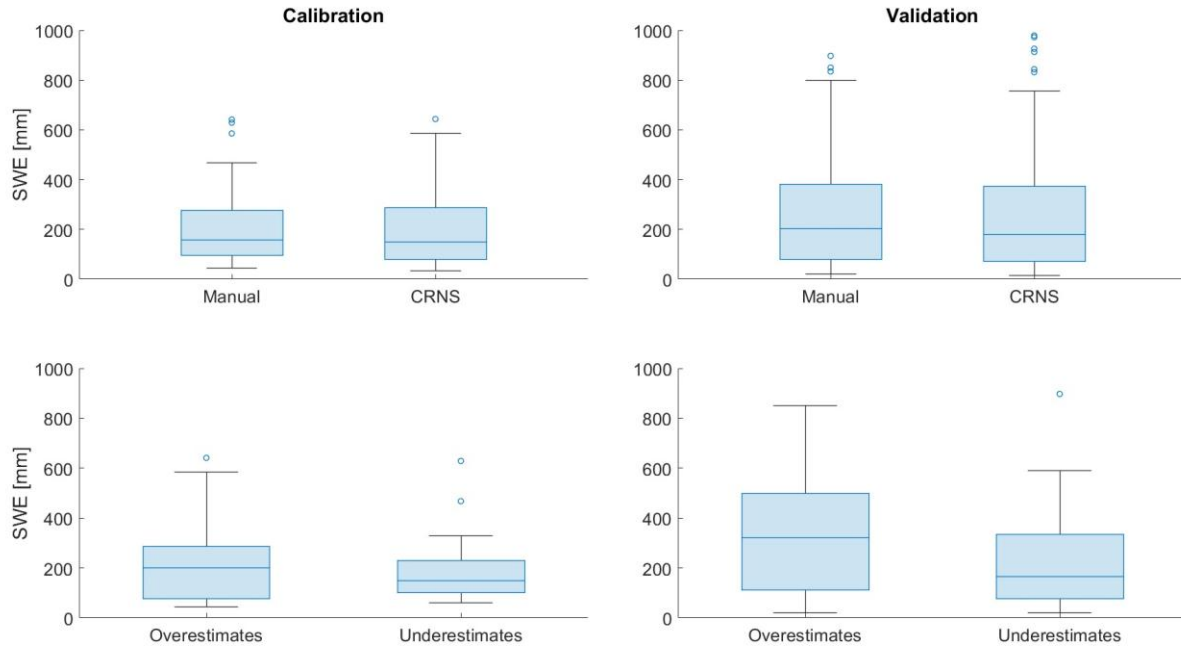


Figure S1: Upper panels: boxplots of the manual and SWE_{CRNS} data for the calibration (left) and validation (right) dataset. Lower panels: boxplots of manual SWE values that incurred in overestimates and underestimates for the calibration (left) and validation (right) dataset.