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Supplement of

The ICOS Ecosystem Station Loobos: a pine forest site exposed to atmospheric pollution

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S.1 Supplementary figures

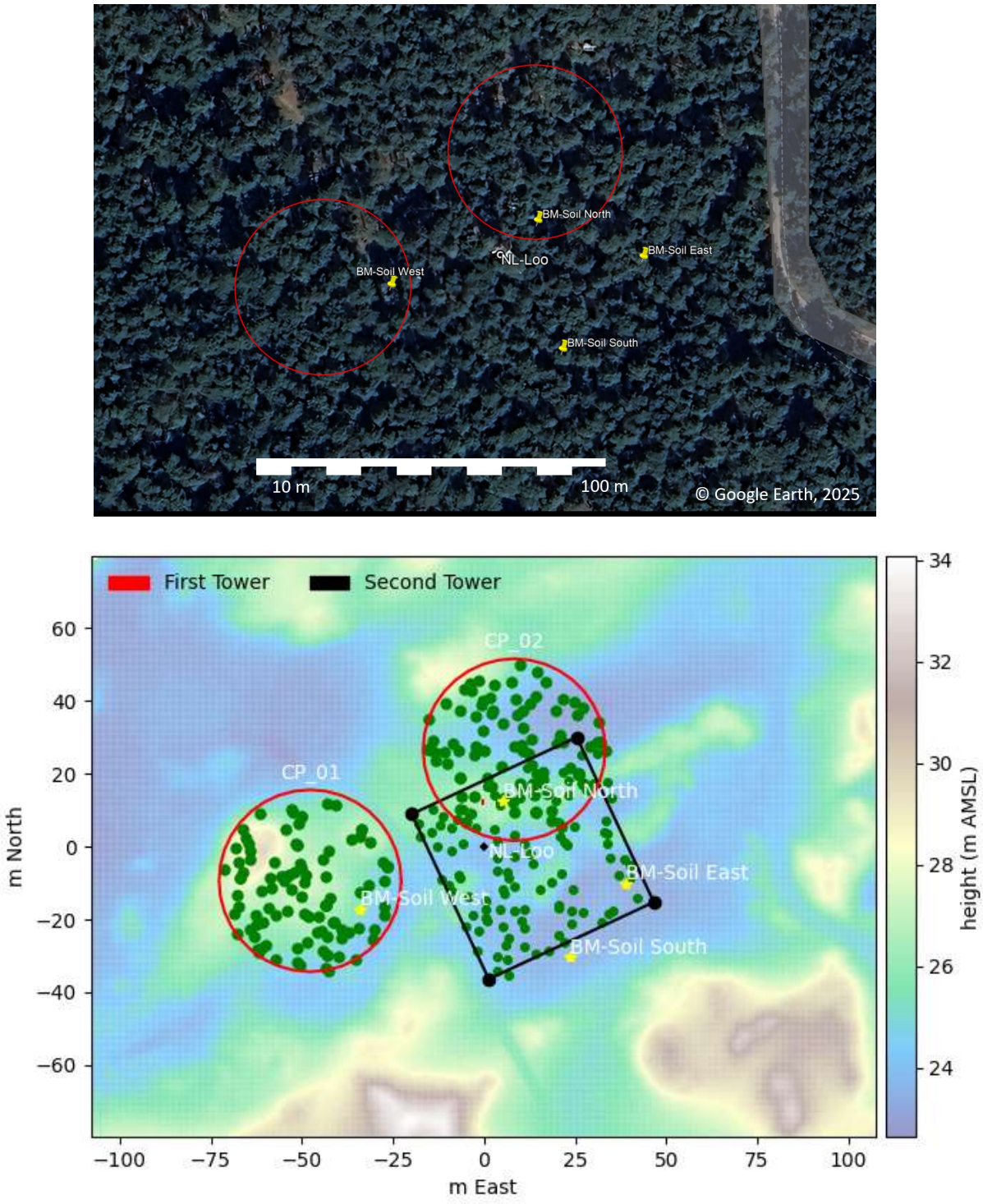


Figure S.1. Location of the continuous soil measurement plots. 'NL-Loo' identifies the location of the tower, superimposed on arial photography (top, Picture by © Google Earth annotated by authors) and on a Digital Elevation Model (bottom, © Nationaal Georegister, 2024). The red circles to the West and North indicate the location of CP_01 and CP_02. The yellow pins show the locations of the 4 soil measurement locations. The West and North plots are on the flank and top of a dune, the East and South plots are in a valley between the dunes. In the bottom figure, the x- and y-scales are in m East and North from the center of the tower.

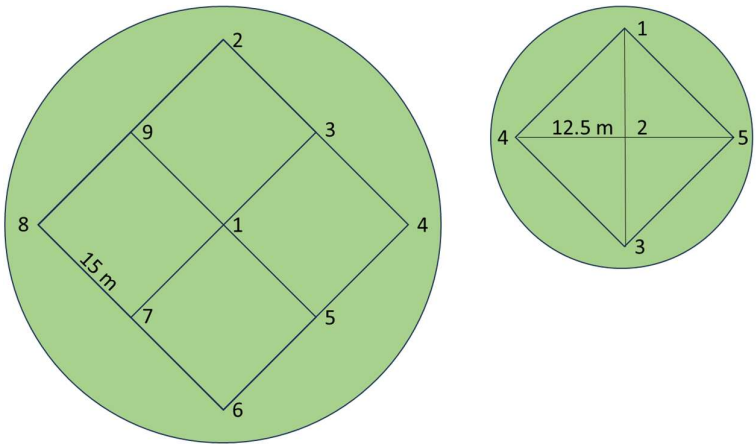


Figure S.2. The raster in which Digital Hemispheric Photographs are taken in the CP's (left) and SP's (right). The location numbers are included in the photograph filenames. The CP and SP schematics are to scale and oriented towards the North.

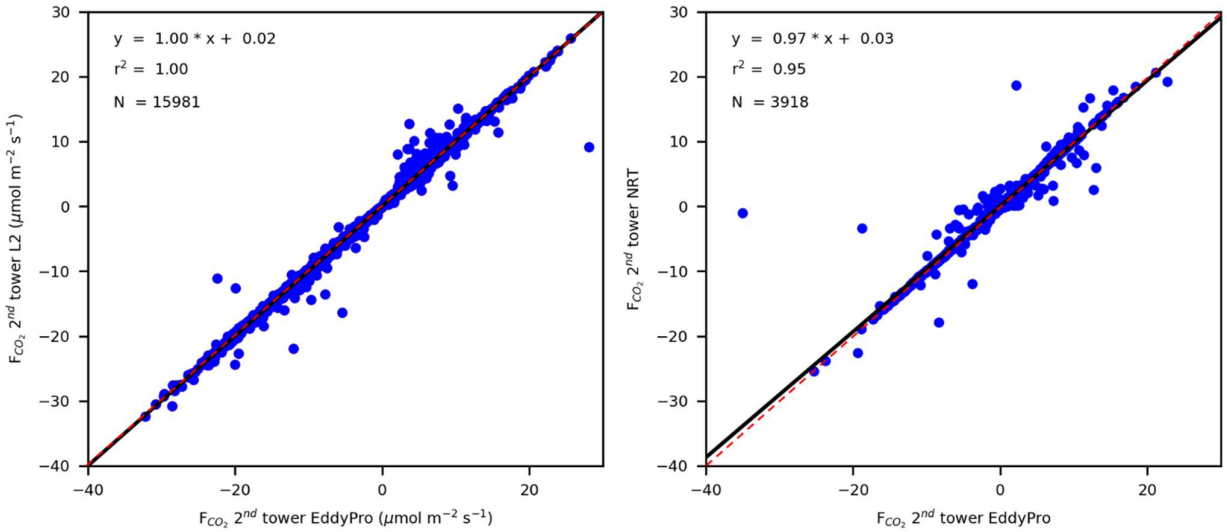


Figure S.3. Comparison of the CO2 fluxes processed by our own EddyPro system and the ICOS ETC L2 product (right, 10 May 2023 to 31 December 2024) and the ICOS ETC Near Real Time (NRT) product (left, 1 January 2025 – 22 May 2025). The red dashed lines represent the 1:1 lines.