

Slee et al. supplementary information.

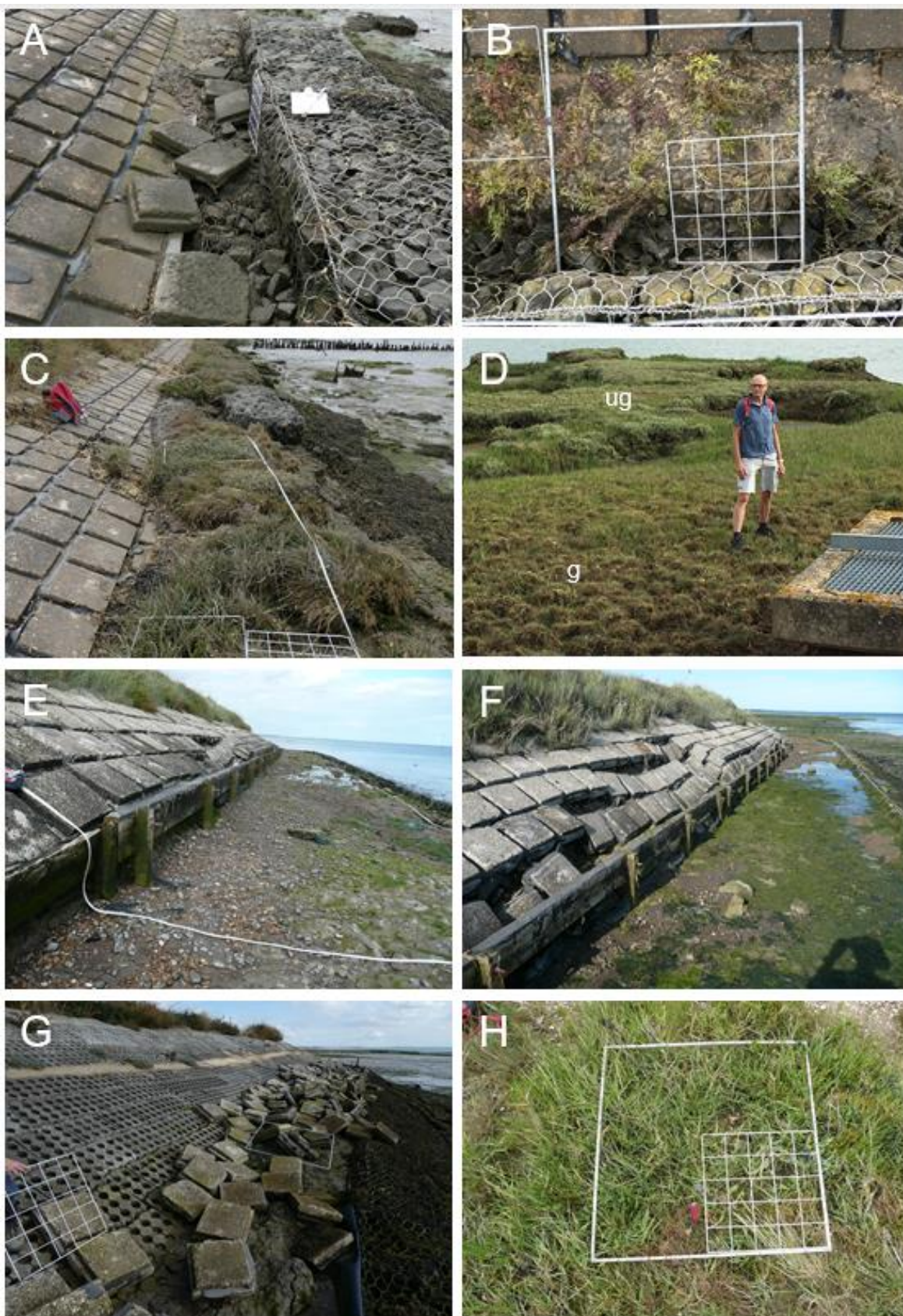


Figure S1 (A) Wellhouse Terrace W3, 111 months after construction, gabion providing seawall protection but clay filled terraced mainly absent; (B) Wellhouse Terrace W1, 111 months after construction, seawall protected, some halophyte colonisation of terrace, erosion between gabion and terrace; (C) Wellhouse salt marsh (WM3) and Terrace W5 at 111 months. Erosion of terrace and natural salt marsh - sediment block failure; (D) Langenhoe salt marsh in 2020 (85 months) near L3. Impact of grazing (g) seen in foreground compared to ungrazed marsh (ug) in the background; (E) Tollesbury Terrace T1, 49 months after construction, sediment eroded and toe of seawall exposed; (F) Tollesbury T1, at 62 months, sediment loss and ponding on terrace with loss of integrity of cement blocks on sea wall; (G) Tollesbury T1, seawall repair with open blocking, old Essex blocking used to overlay clay terrace, 111 months after construction; (H) Tollesbury salt marsh 2022 with high abundance of *Spartina anglica*.

Figure S2 A - F. Contour plots of terrace height (m rel. to C.D) for selected terraces at Wellhouse, Langenhoe and Tollesbury from 2012 to 2017.. Points indicate measured locations, contours are interpolated.

A (Wellhouse W4, m C.D.)

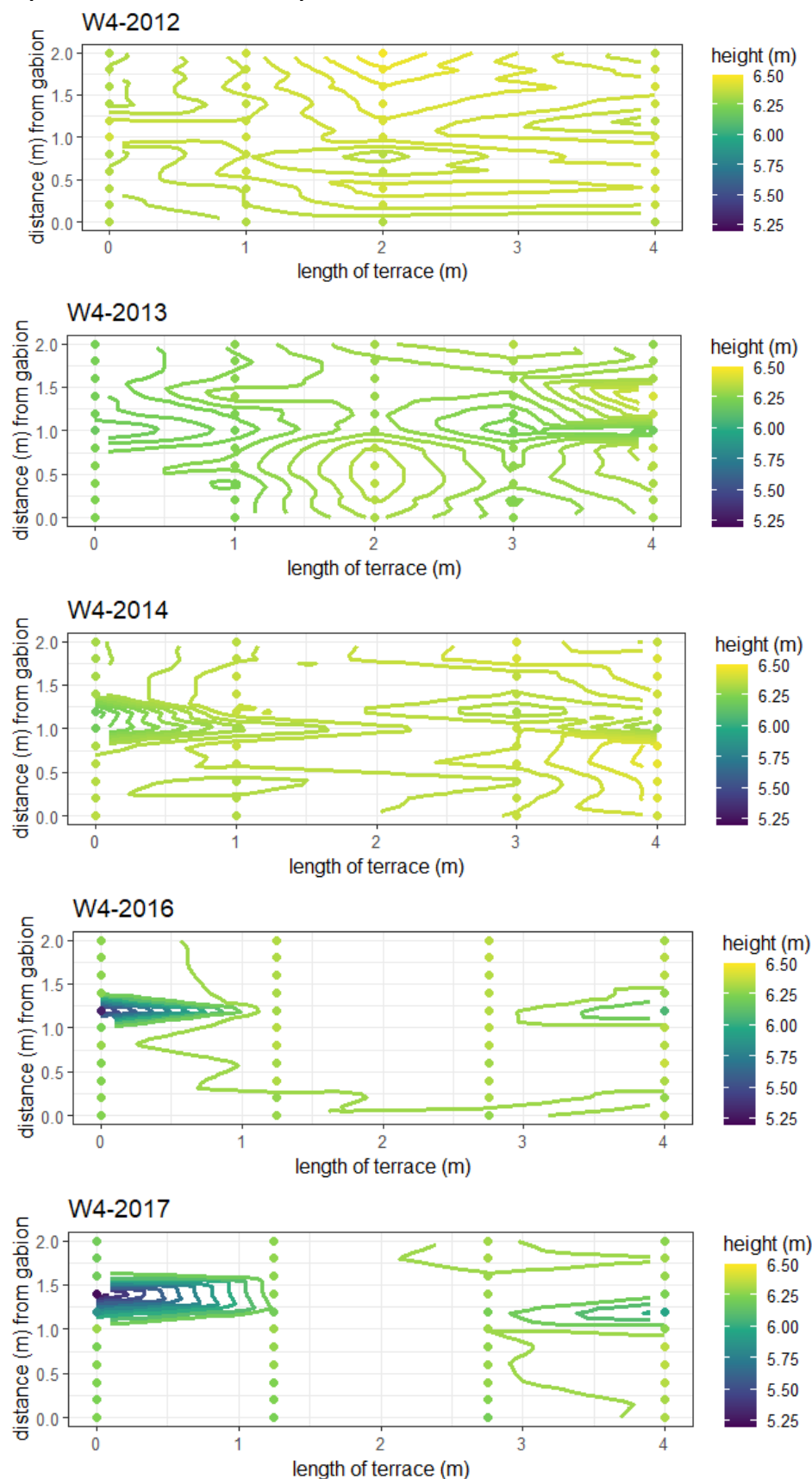


Figure S2B Wellhouse W5 m C.D.)

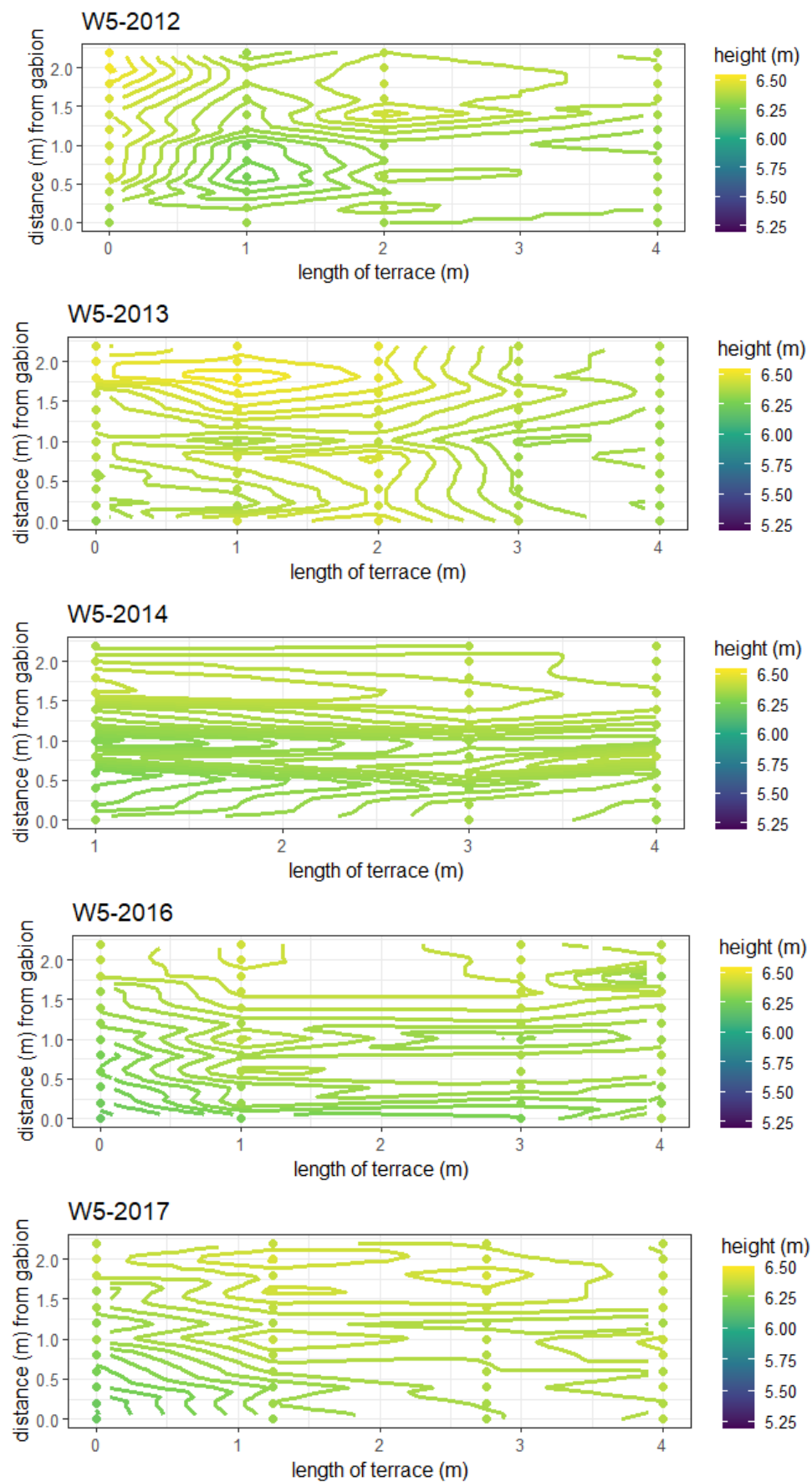


Figure S2C Langenhoe L1 m C.D.)

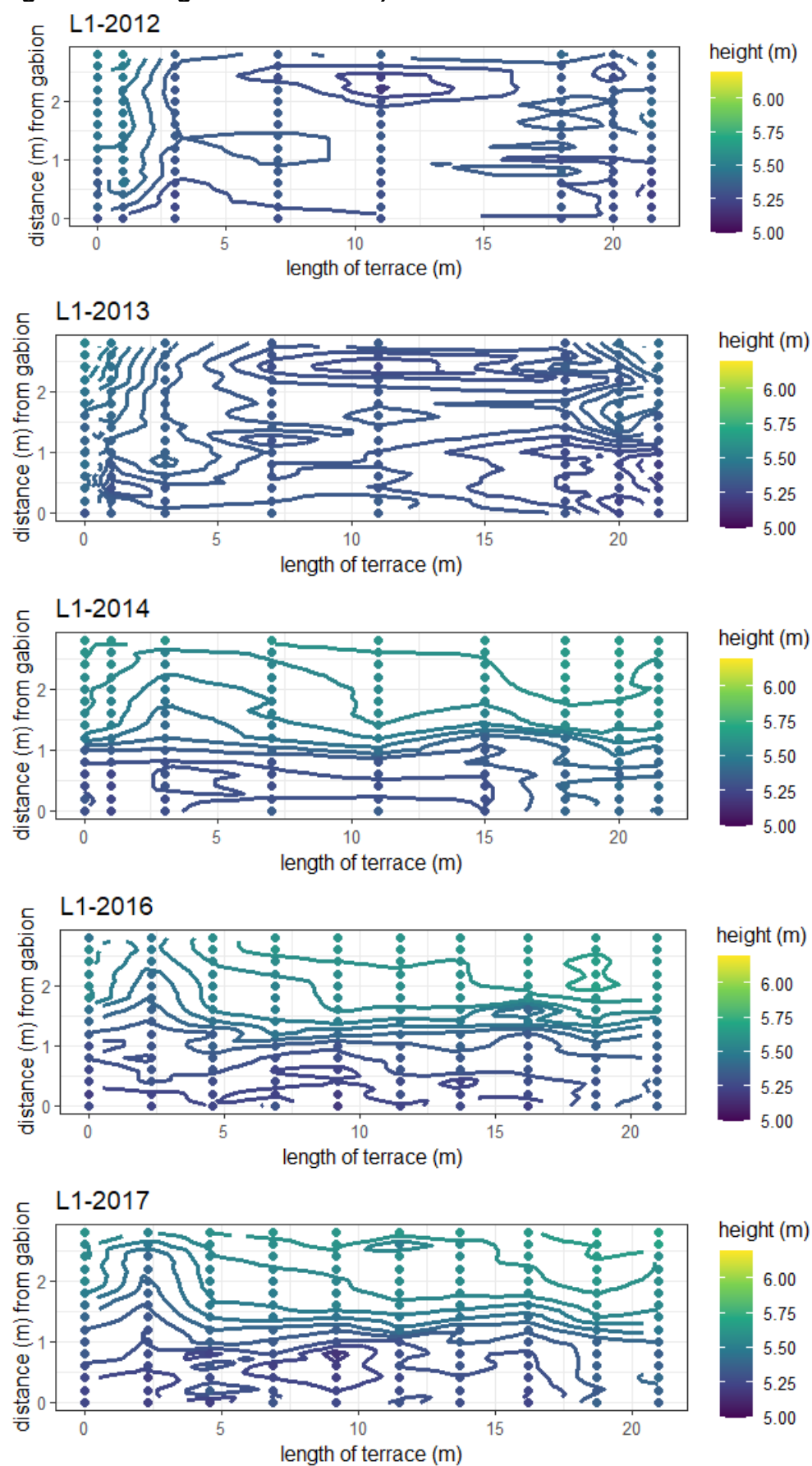


Figure S2D Langenhoe L4 m C.D.)

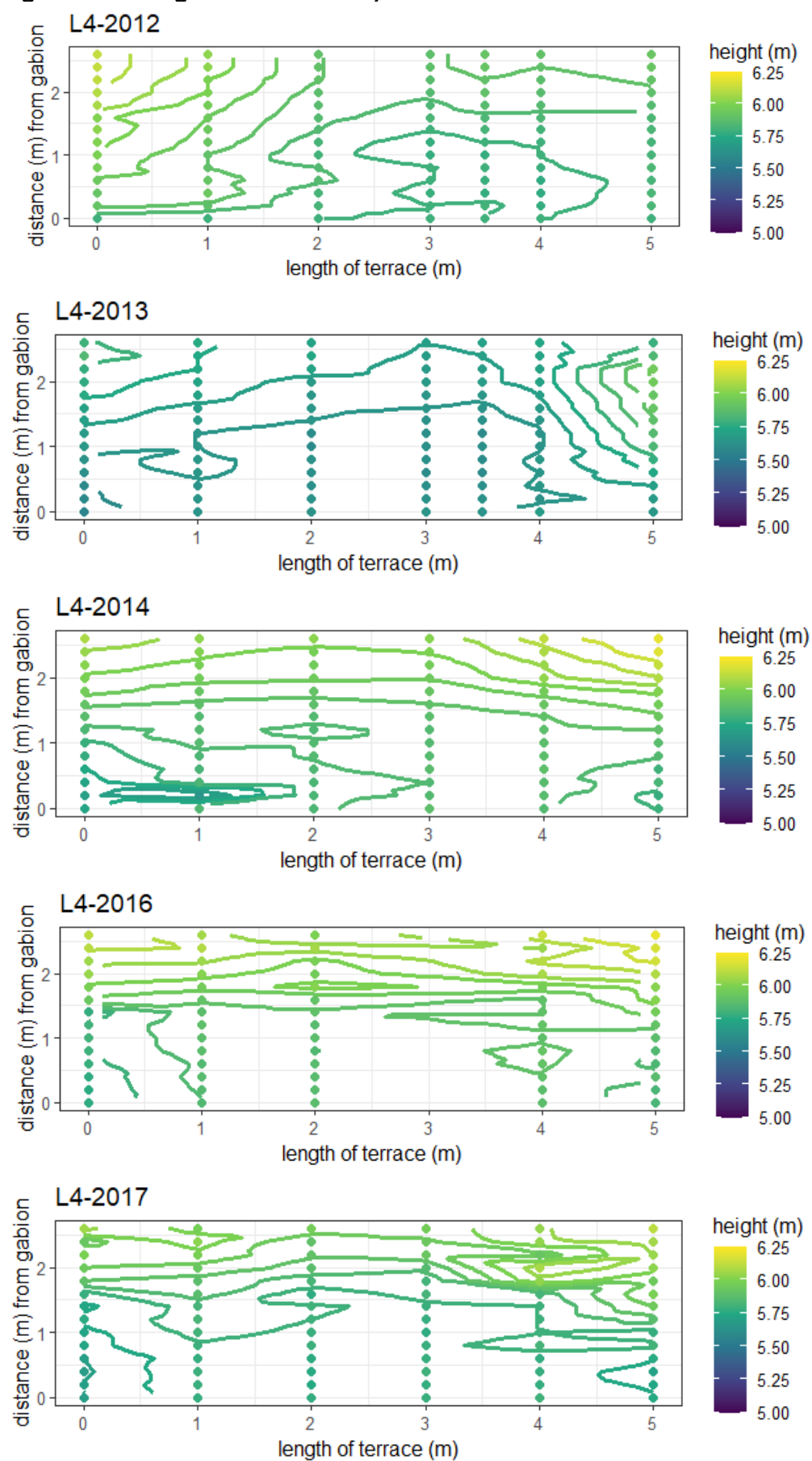


Figure S2E Tollesbury T1 m C.D.)

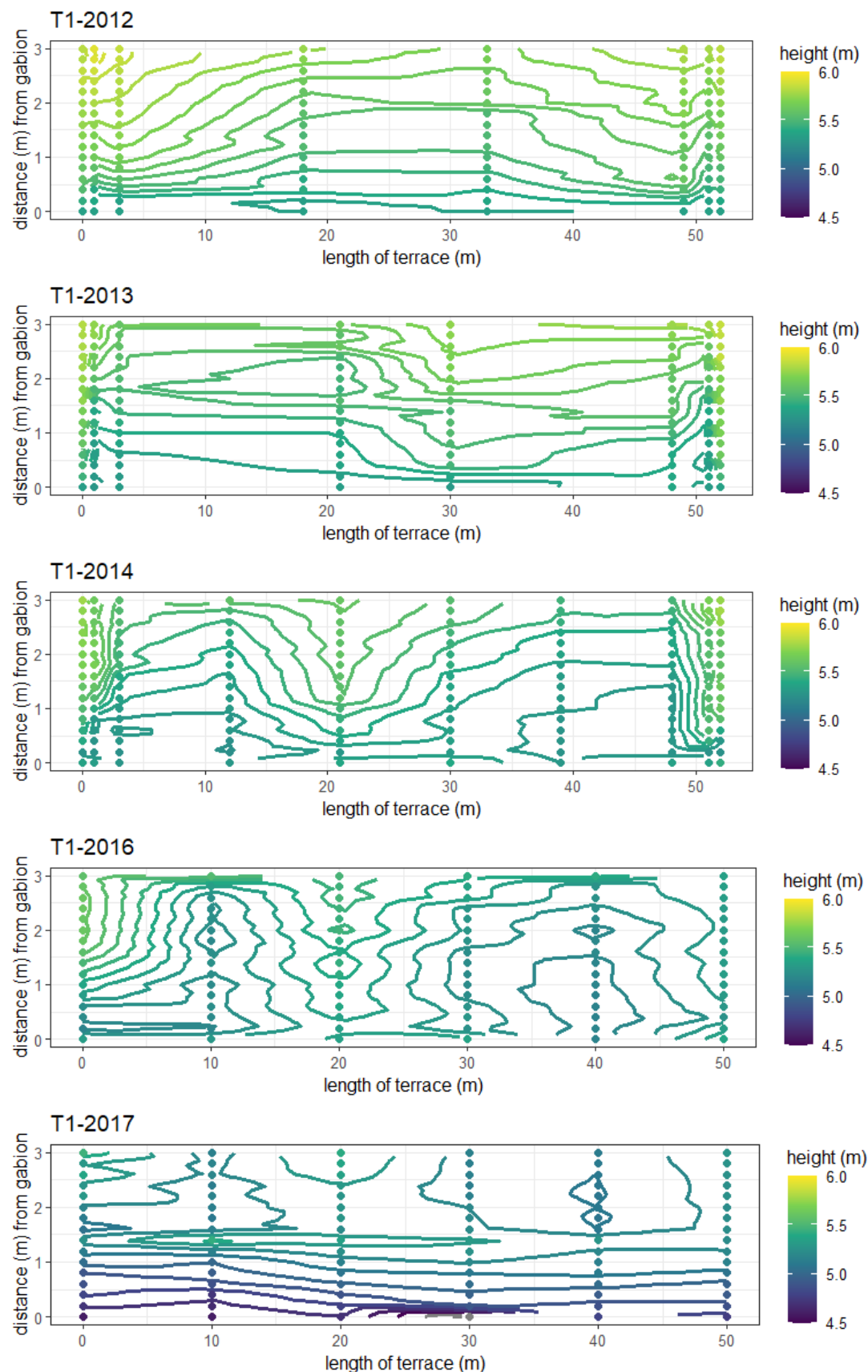
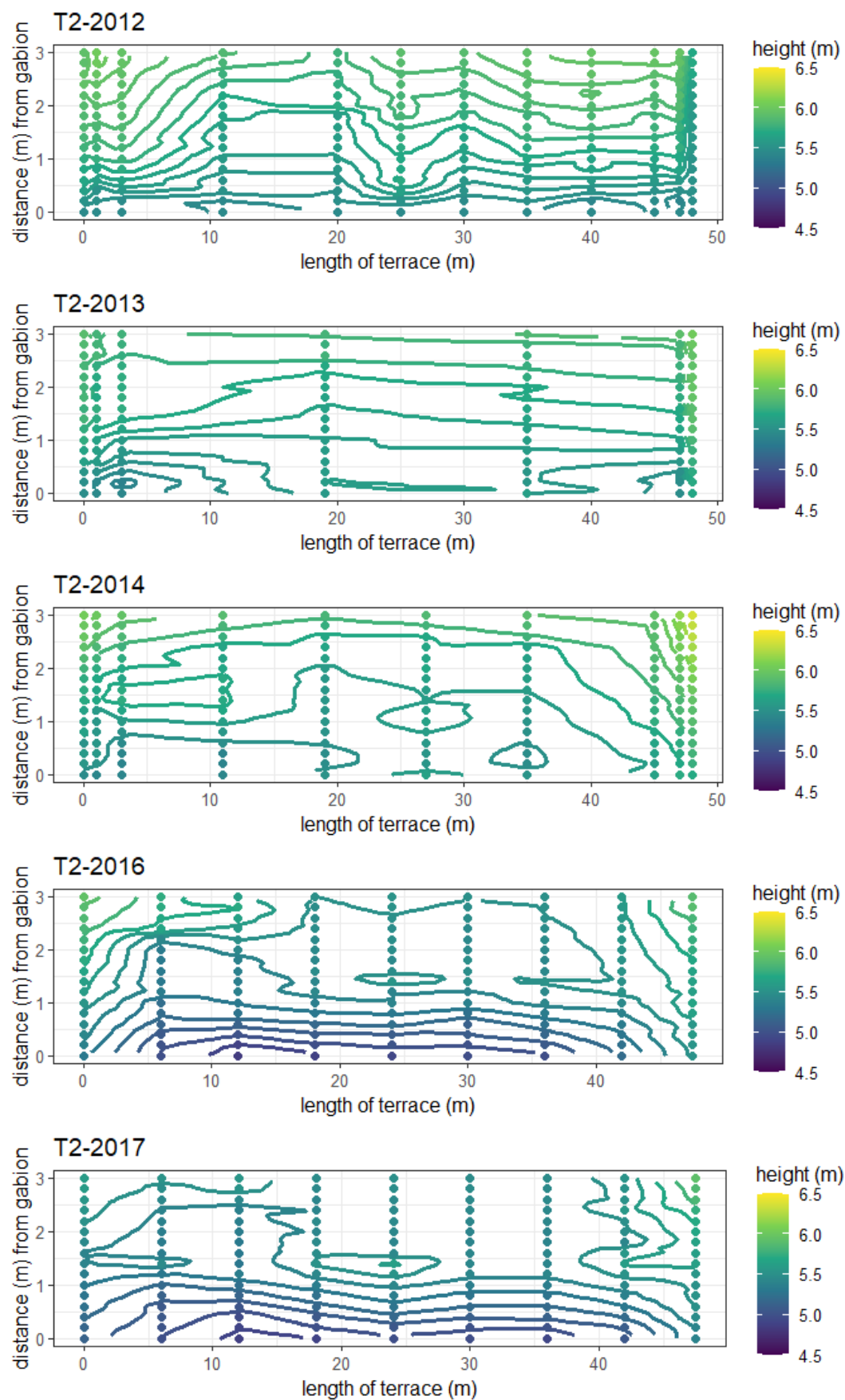


Figure S2F Tollesbury T2 m C.D.)



1 **Figure S3.** Correlation matrix for various physical and biological variables (plant richness, selected halophyte species) for engineered sea wall
2 terraces in Essex, U.K., between 2012 and 2022. Pearson's correlation statistic (r) and statistical significance presented ($p < 0.05$ *, $p < 0.01$
3 **, $p < 0.001$ ***; n varies depending on the comparison).

