

Figure S1. Identification of the optimal number of latent variables used for biomass models (BM-1 to BM-3) and crude protein models (CPM-1 to CPM-3) developed using PLSR

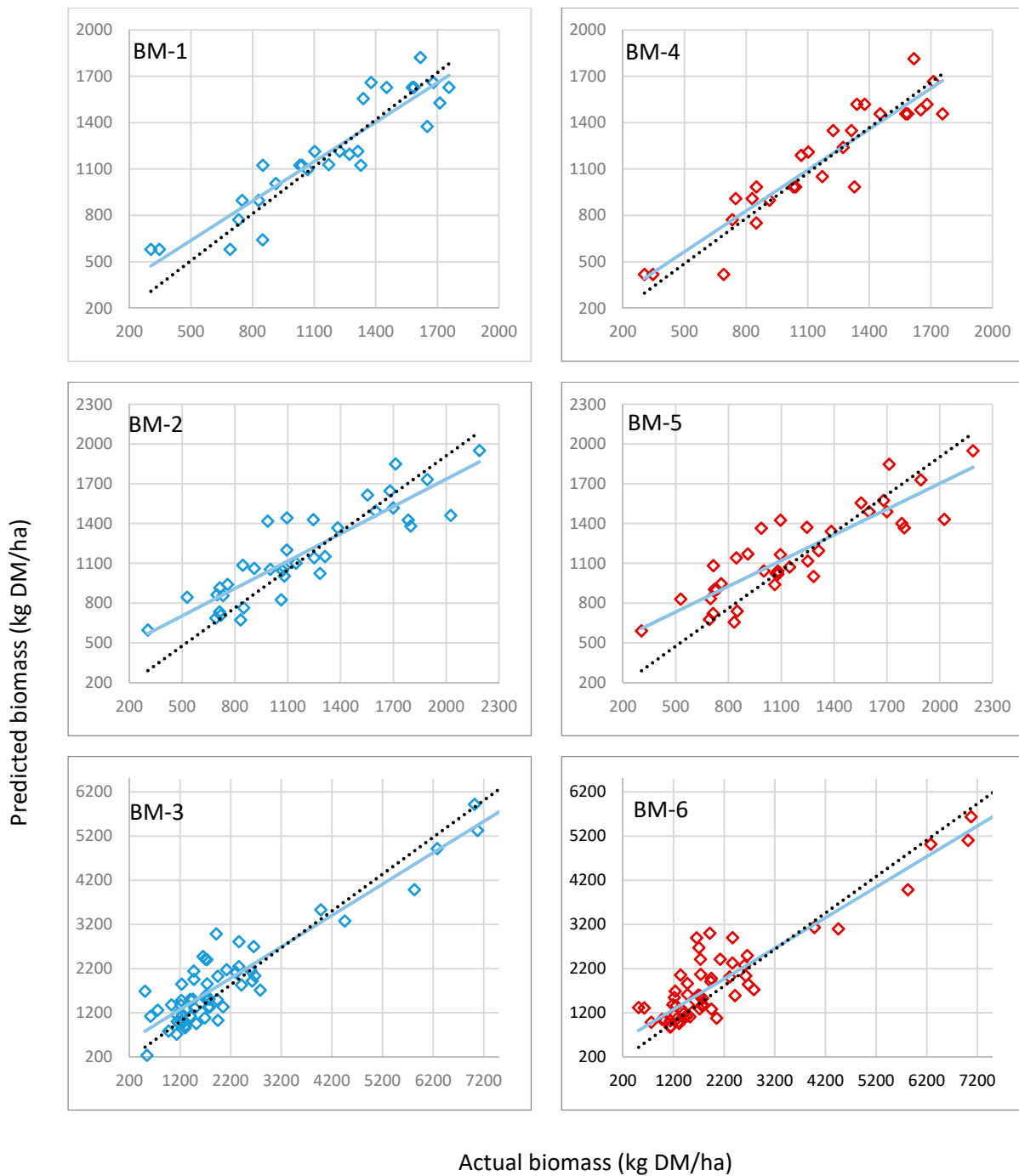


Figure S2. Scatter plots of predicted BM versus actual BM. PLSR models are marked in blue (BM-1 to BM-3) and MLR models are marked in red (BM-4 to BM-6), DM; dry matter.

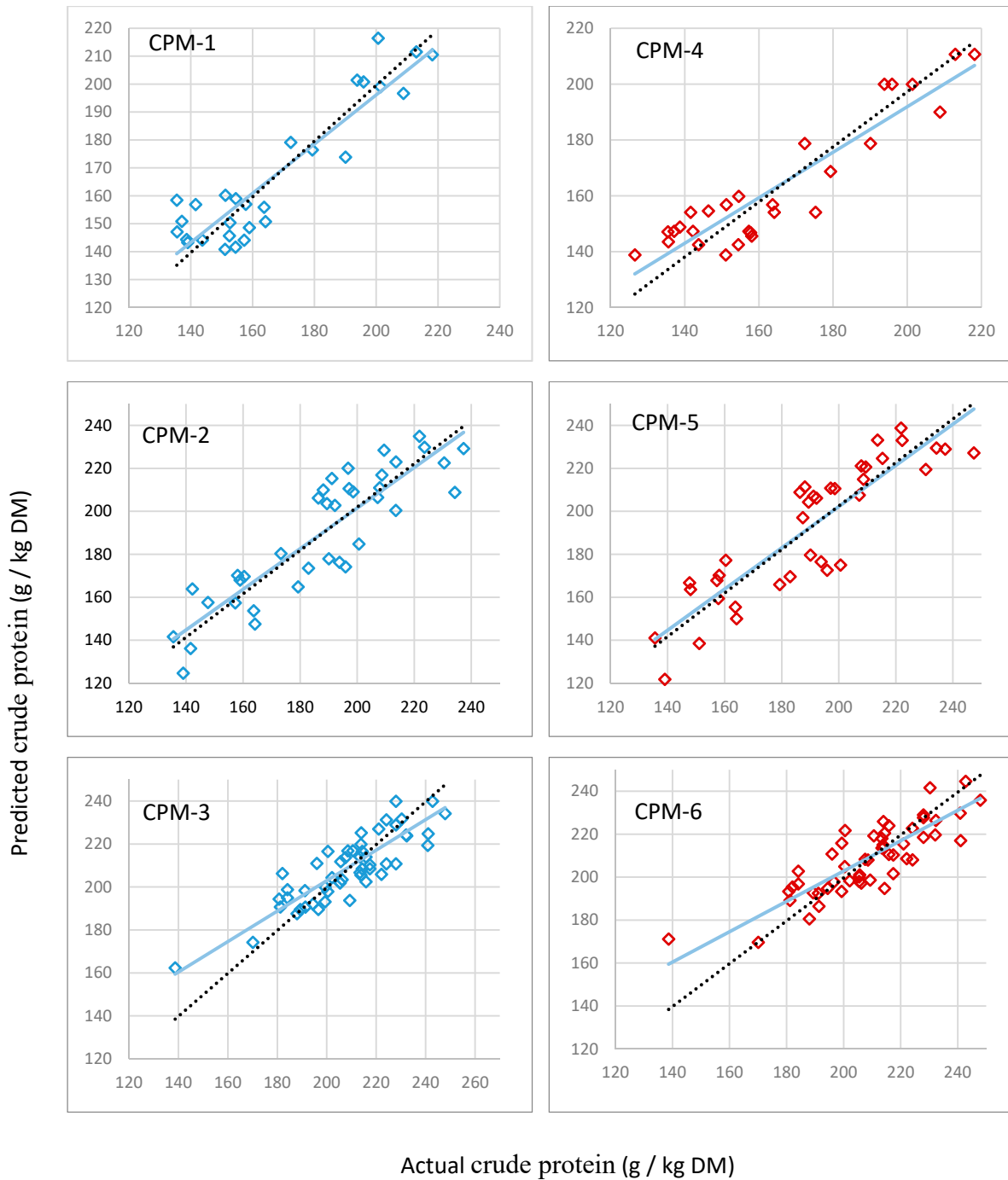


Figure S3. Scatter plots of predicted CP versus actual CP. PLSR models are marked in blue (CPM-1 to CPM-3) and MLR models are marked in red (CPM-4 to CPM-6). DM; dry matter.

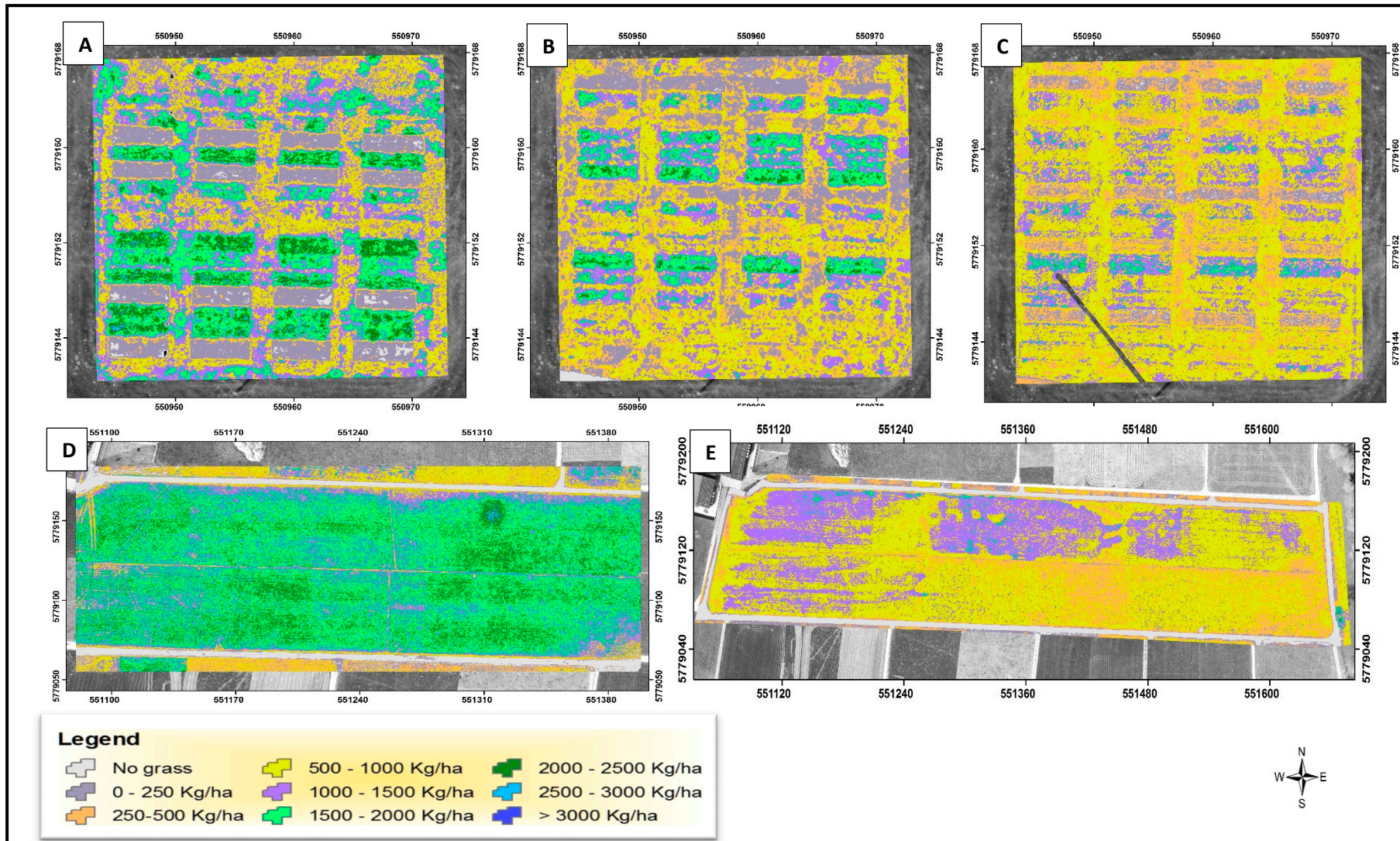


Figure S4. Biomass maps predicted using MSI-UAV images (BM-2) captured on 12 June 2017 (A), 21 August 2017, (B) 18 September 2017 (C) from trial plots and 21 April 2018 (D) and 11 July 2018 (E) from paddocks.

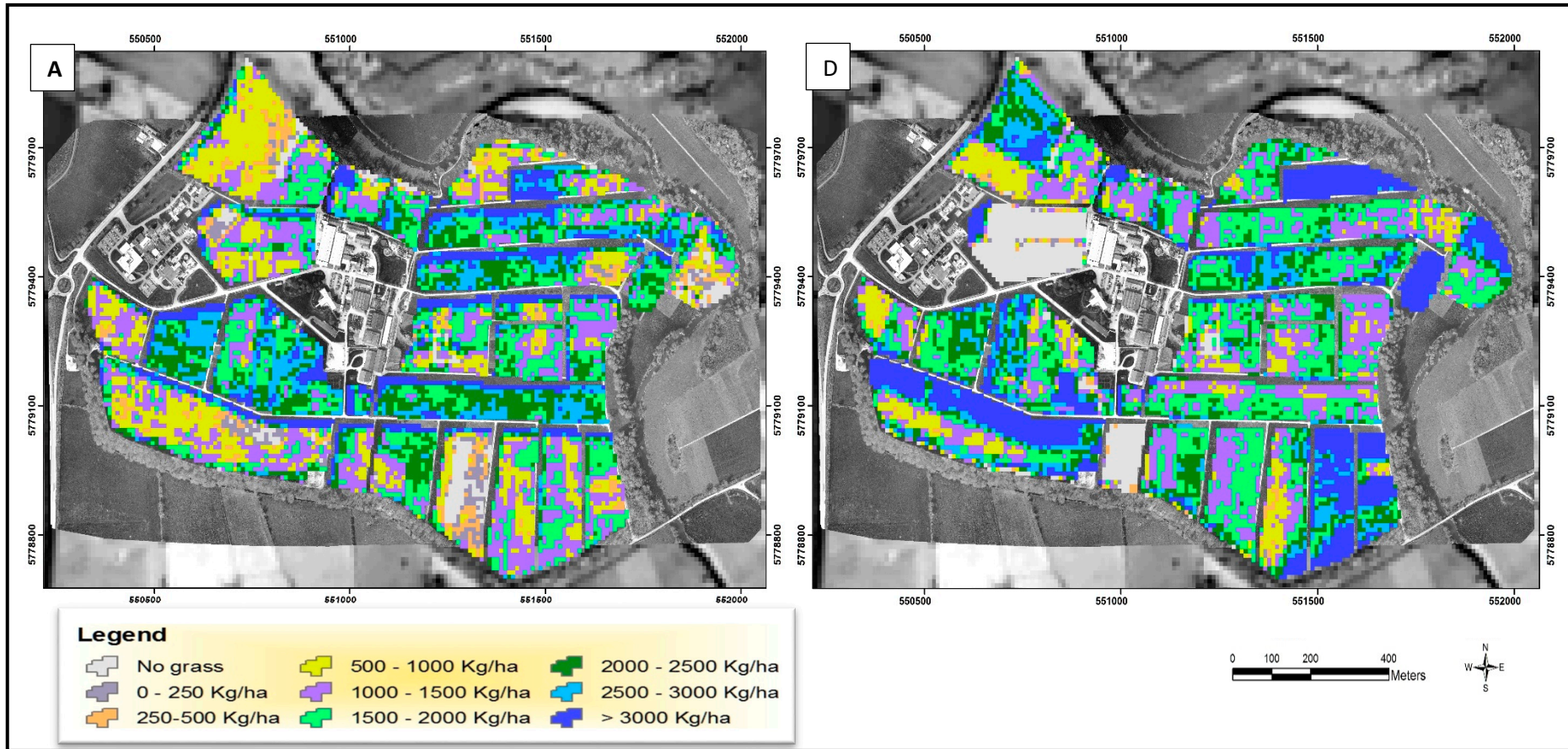


Figure S5. Biomass (Kg DM/ha) maps predicted using MSI- Sentinel-2 images (BM-3) on 21 April 2018 (D) and 16 May 2018 (E) from paddocks.

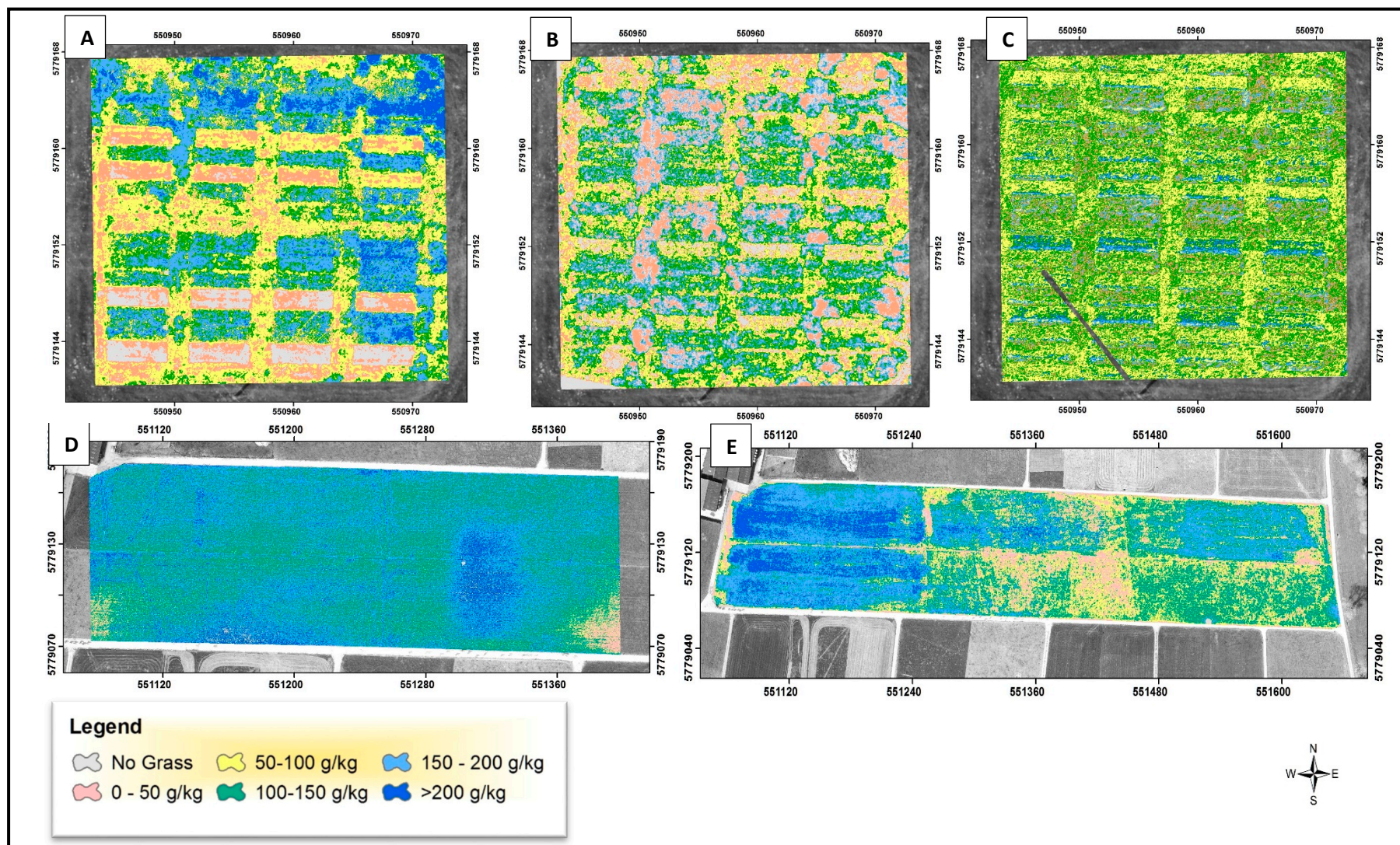


Figure S6. Crude protein (g/Kg DM) maps predicted using MSI-UAV images (CMP-2) captured on 12 June 2017 (A), 21 August 2017, (B) 18 September 2017 (C) from trial plots and 21 April 2018 (D) and 11 July 2018 (E) from Paddocks.