



Supplement of

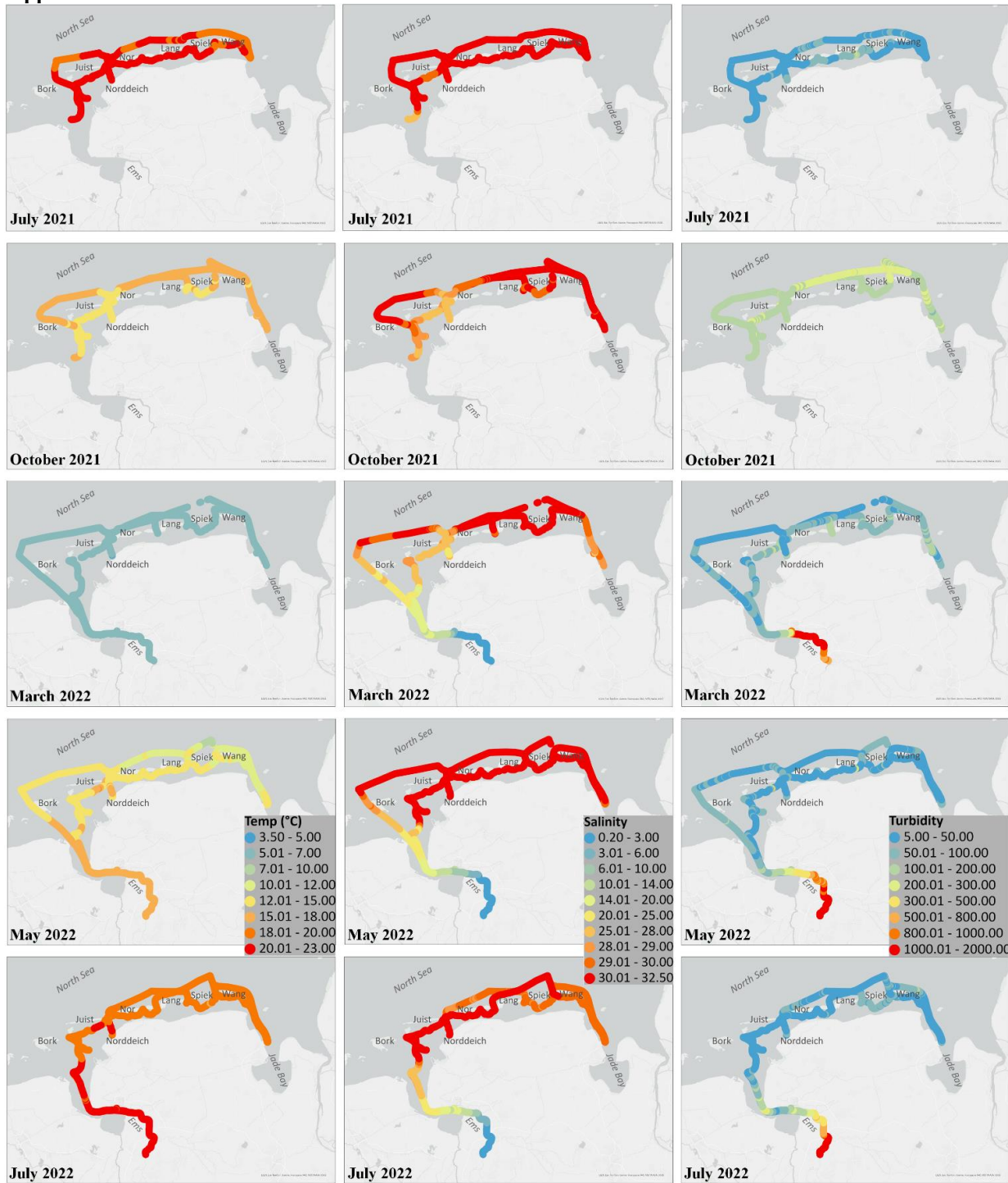
Intertidal regions regulate seasonal coastal carbonate system dynamics in the East Frisian Wadden Sea

Julia Meyer et al.

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Supplements



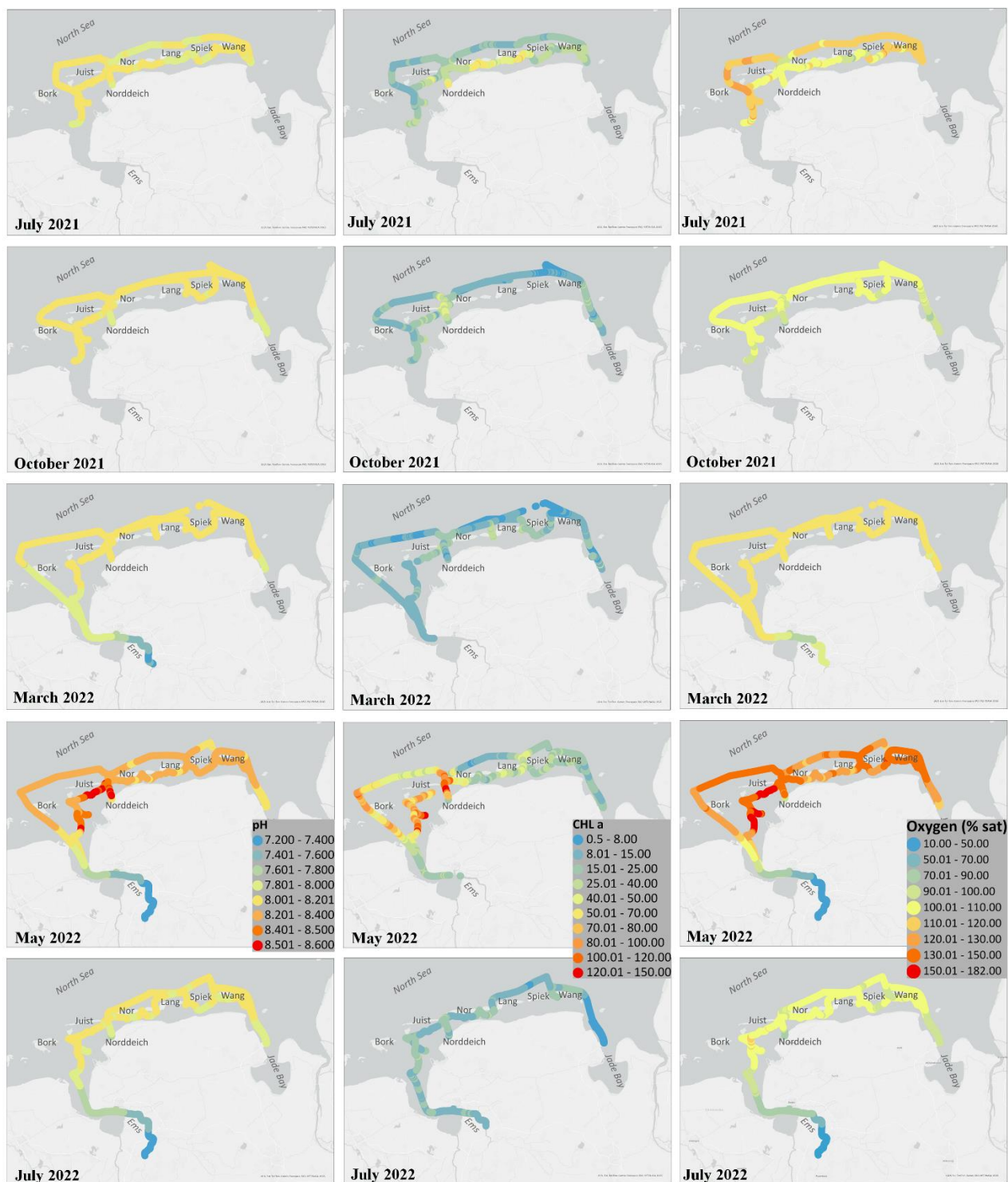
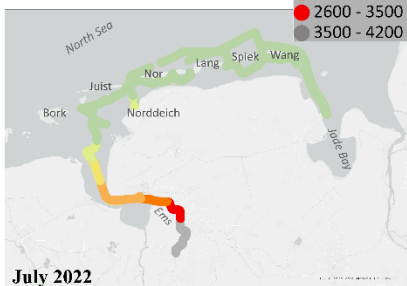
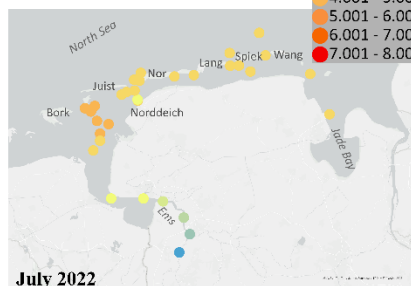
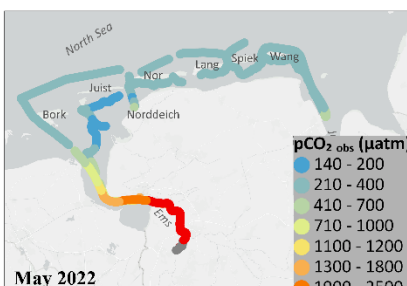
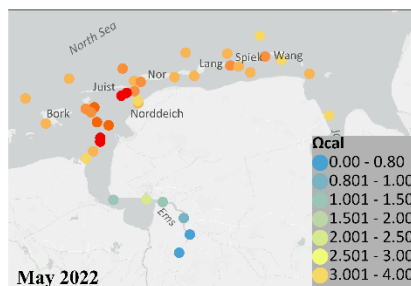
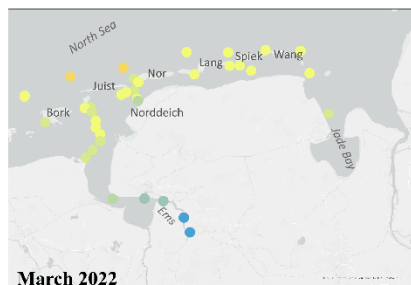
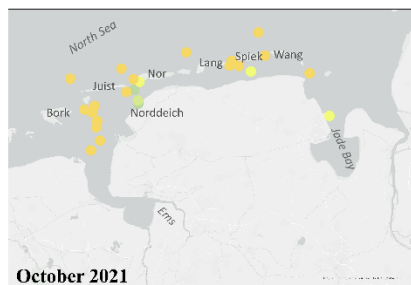
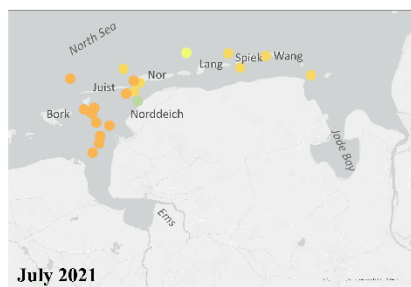
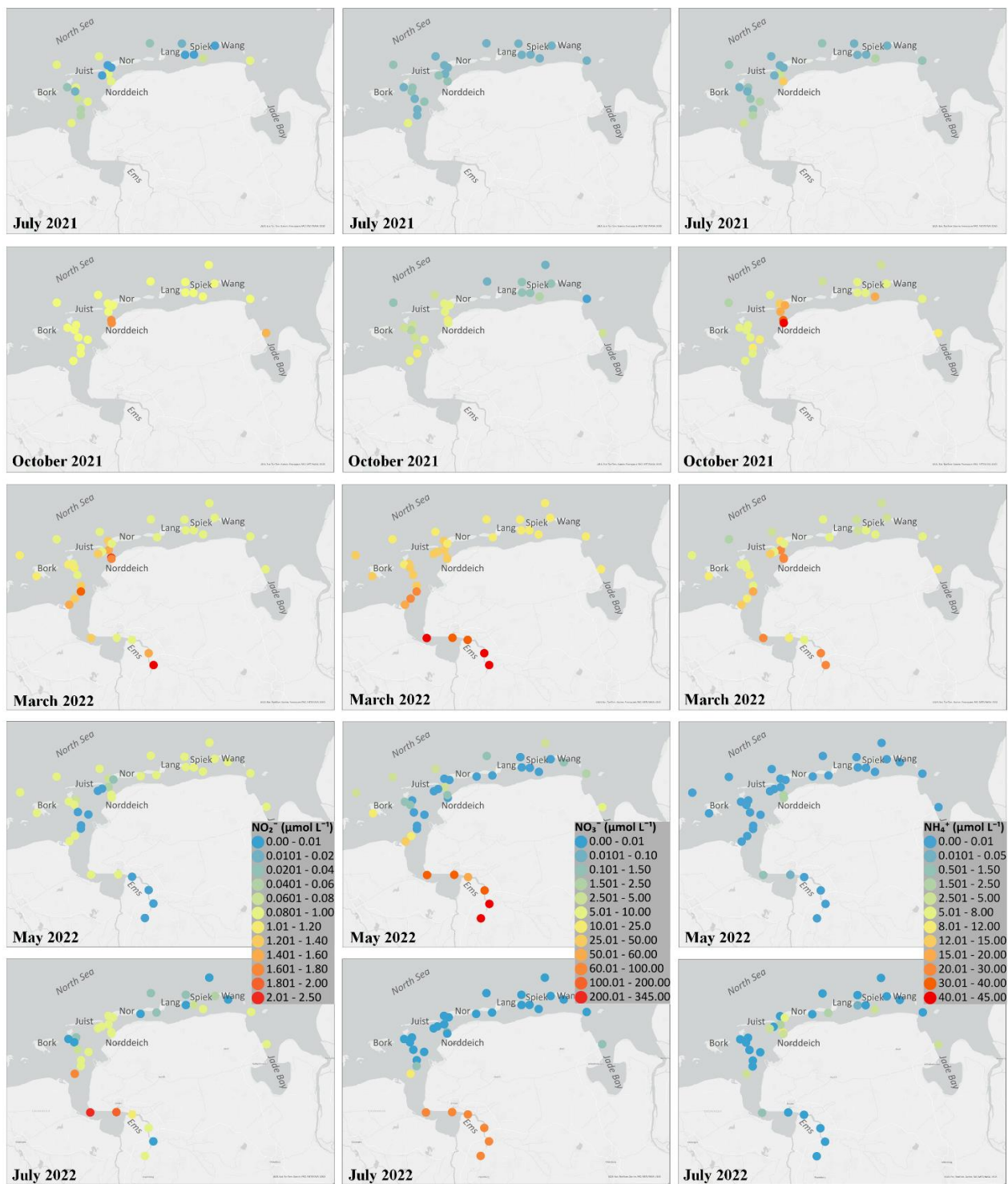


Figure S2: Results of all seasonal cruises from July 2021, October 2021, March 2022, May 2022 and July 2022 measured with the FerryBox. pH, Chlorophyll a (Chl a in $\mu\text{g L}^{-1}$) and oxygen (% saturation). The map in this Figure was generated using ArcGIS. Data sources: LGLN, Esri, TomTom, Garmin, Foursquare, FAO, METI/NASA, USGS.



10

Figure S3: Calculated calcite saturation (Ω_{cal}) and pCO_2 obs (μatm) of (July 2021), October 2021, March 2022, May 2022 and July 2022 measured with the FerryBox. The map in this Figure was generated using ArcGIS. Data sources: LGLN, Esri, TomTom, Garmin, Foursquare, FAO, METI/NASA, USGS.



15 **Figure S4: Measured nitrate (NO_3^- in $\mu\text{mol L}^{-1}$), nitrite (NO_2^- in $\mu\text{mol L}^{-1}$) and ammonium (NH_4^+ in $\mu\text{mol L}^{-1}$) of all seasonal cruises from July 2021 until July 2022. The map in this Figure was generated using ArcGIS. Data sources: LGLN, Esri, TomTom, Garmin, Foursquare, FAO, METI/NASA, USGS.**