

The summer North Atlantic Oscillation influence on the Eastern Mediterranean

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This study highlights an important and previously overlooked summer NAO signal over the eastern Mediterranean. The featured analysis is based on a synergistic use of reanalysis data, satellite retrievals, coastal and buoy meteorological observations. The physical mechanisms at play reveal a strong summer NAO involvement on the pressure fields over northern Europe (Baltic Sea) and the Anatolian plateau. Especially during August, the summer NAO modulates the Anatolian low, together with the meridional atmospheric circulation and cloudiness over the Eastern Mediterranean. Including the dominant action centers over Greenland and the Arctic, the identified modulations rank among the strongest summer NAO-related signals over the entire Northern Hemisphere.