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*Supplement of*

## **A new view of heat wave dynamics and predictability over the eastern Mediterranean**

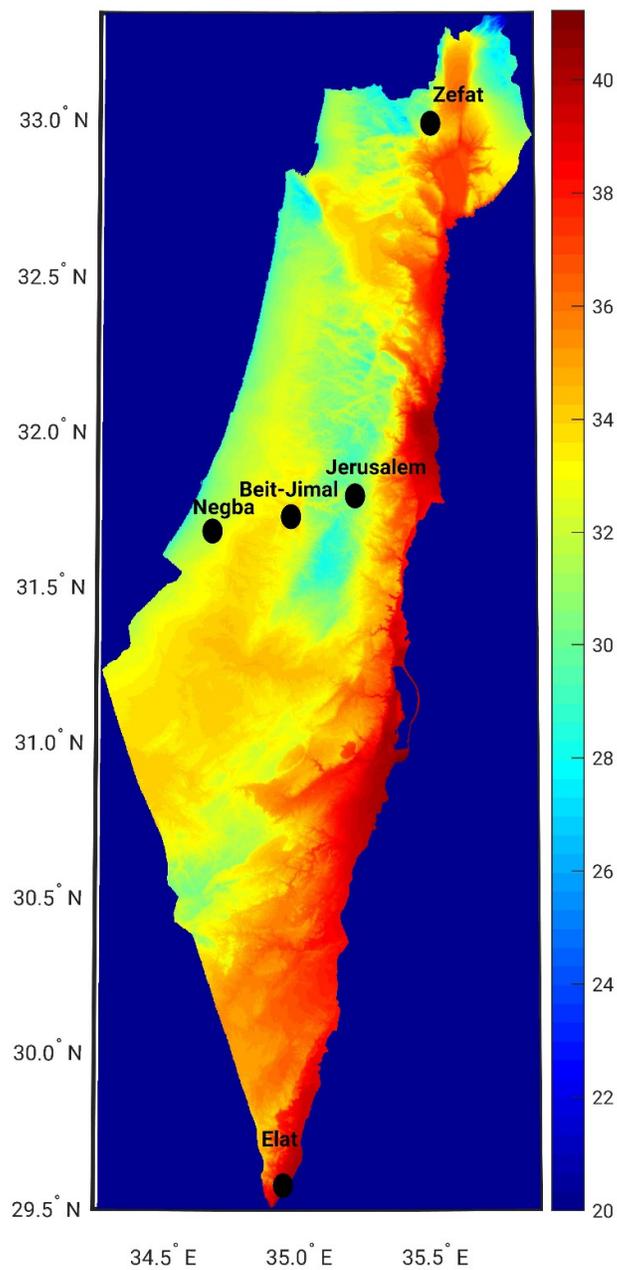
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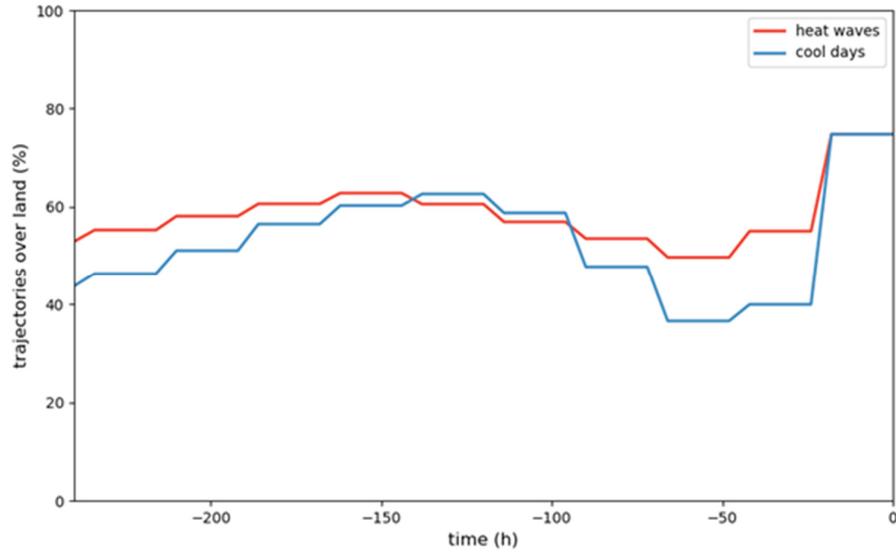
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**Table S1** The five homogenous representative daily maximum temperature stations over Israel used for computing the absolute error of the model.

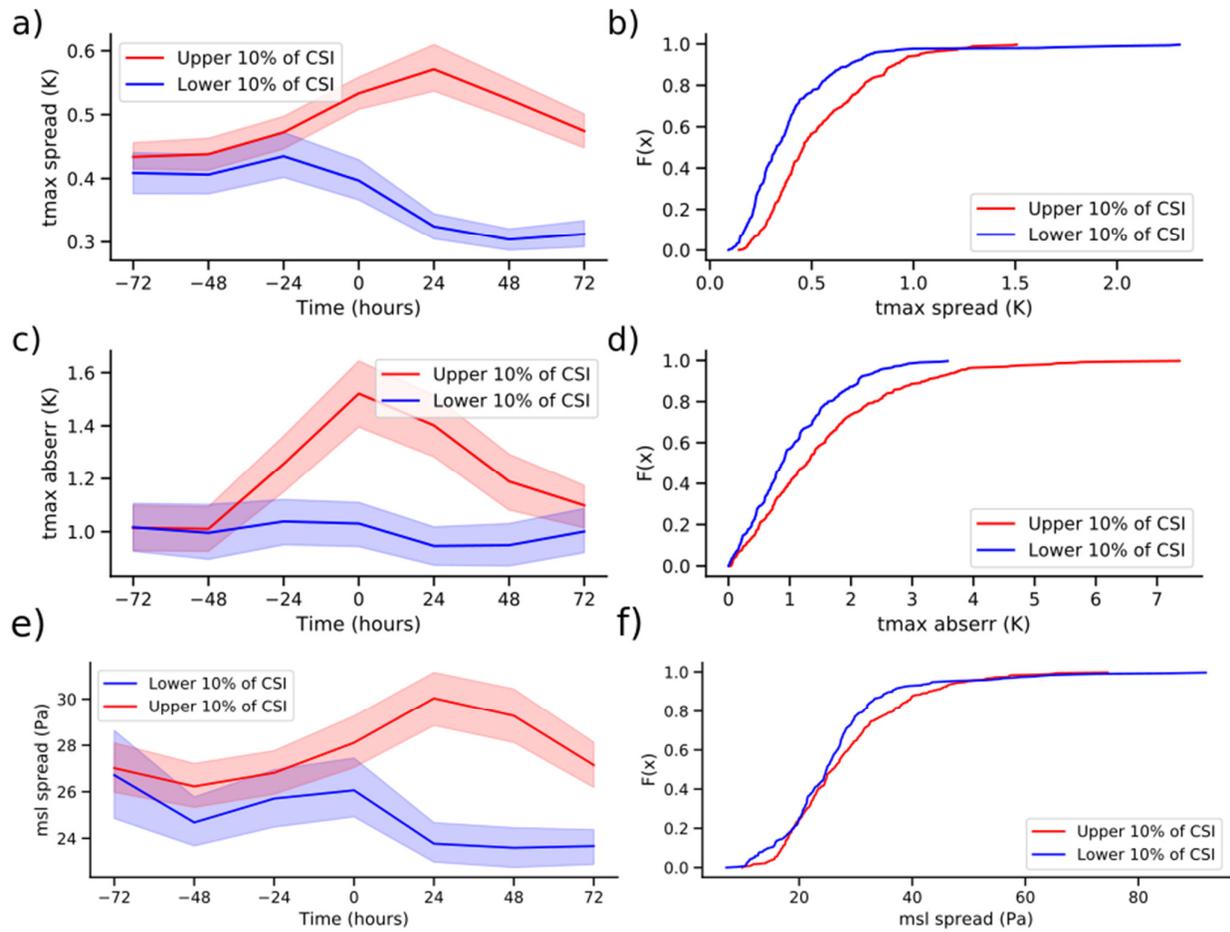
<b>Serial number</b>	<b>Station name</b>	<b>Latitude (°)</b>	<b>Longitude (°)</b>	<b>Altitude (m)</b>	<b>WMO number</b>
<b>1</b>	<b>Elat (desert)</b>	29.55	34.95	22	401990
<b>2</b>	<b>Negba (Coastal plain)</b>	31.66	34.68	95	
<b>3</b>	<b>Beit-Jimal (low land)</b>	31.72	34.98	355	
<b>4</b>	<b>Jerusalem- center (mountainous)</b>	31.78	35.22	810	402900
<b>5</b>	<b>Zefat Har- Kenaan (mountainous)</b>	32.98	35.51	936	401530



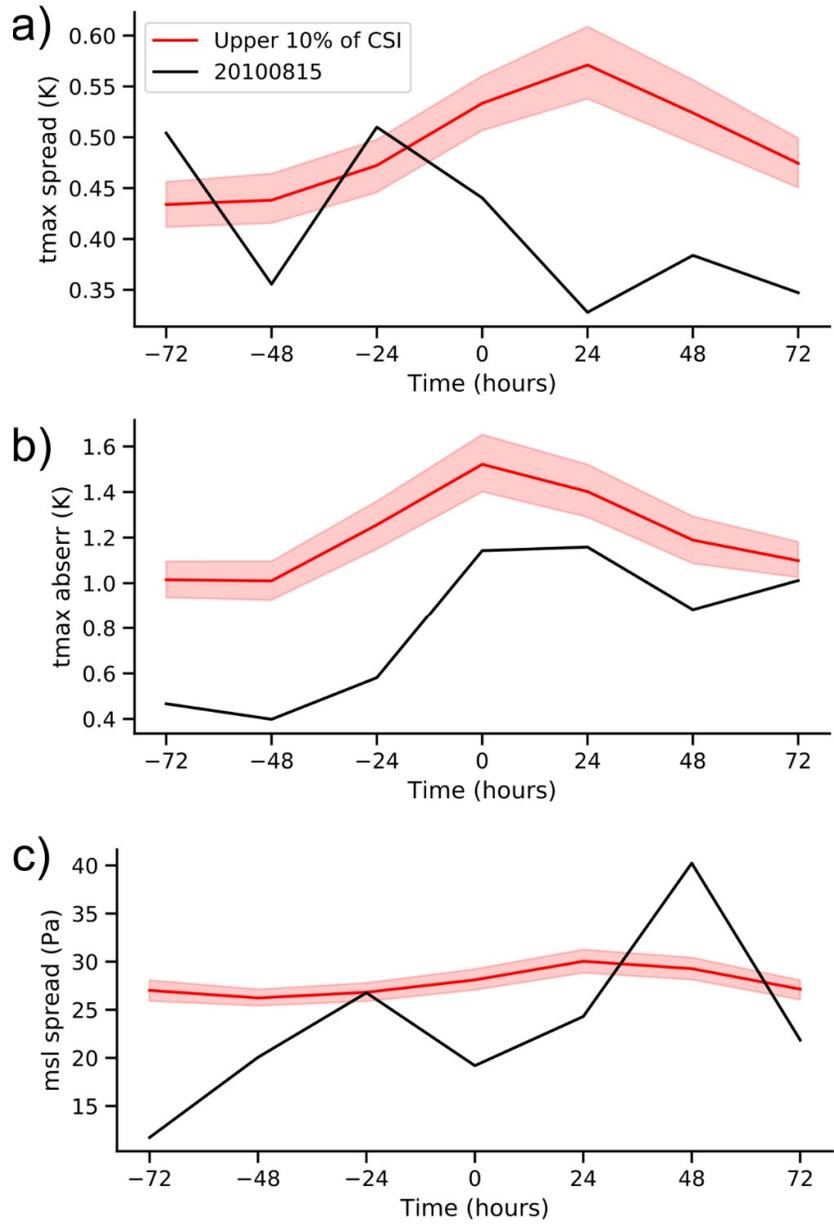
**Figure S1** The five homogenized stations on top of the average summer (July-August) temperature over Israel computed for 1995 - 2009 (<https://ims.gov.il/he/node/1611> ; shaded in color – °C).



**Figure S2** The portion of trajectories over land, as defined by the ERA-Interim land-sea mask, for heat waves (red line) and cool days (blue line). The x-axis shows time lags (in h) relative to the first day of  $CSI \geq 90\%$  or  $CSI \leq 10\%$  and at 12UTC (0 h in the Figure).



**Figure S3** Same as Figure 5 but showing forecast valid time in (a, c, e) and showing CDFs for the forecasts with lead time 69h, valid at 0 h in (b, d, f).



**Figure S4** Same as Figure 9 but showing forecast valid time.