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**Geography**  
**Higher level and standard level**  
**Paper 1 – resource booklet**

Friday 4 November 2022 (afternoon)

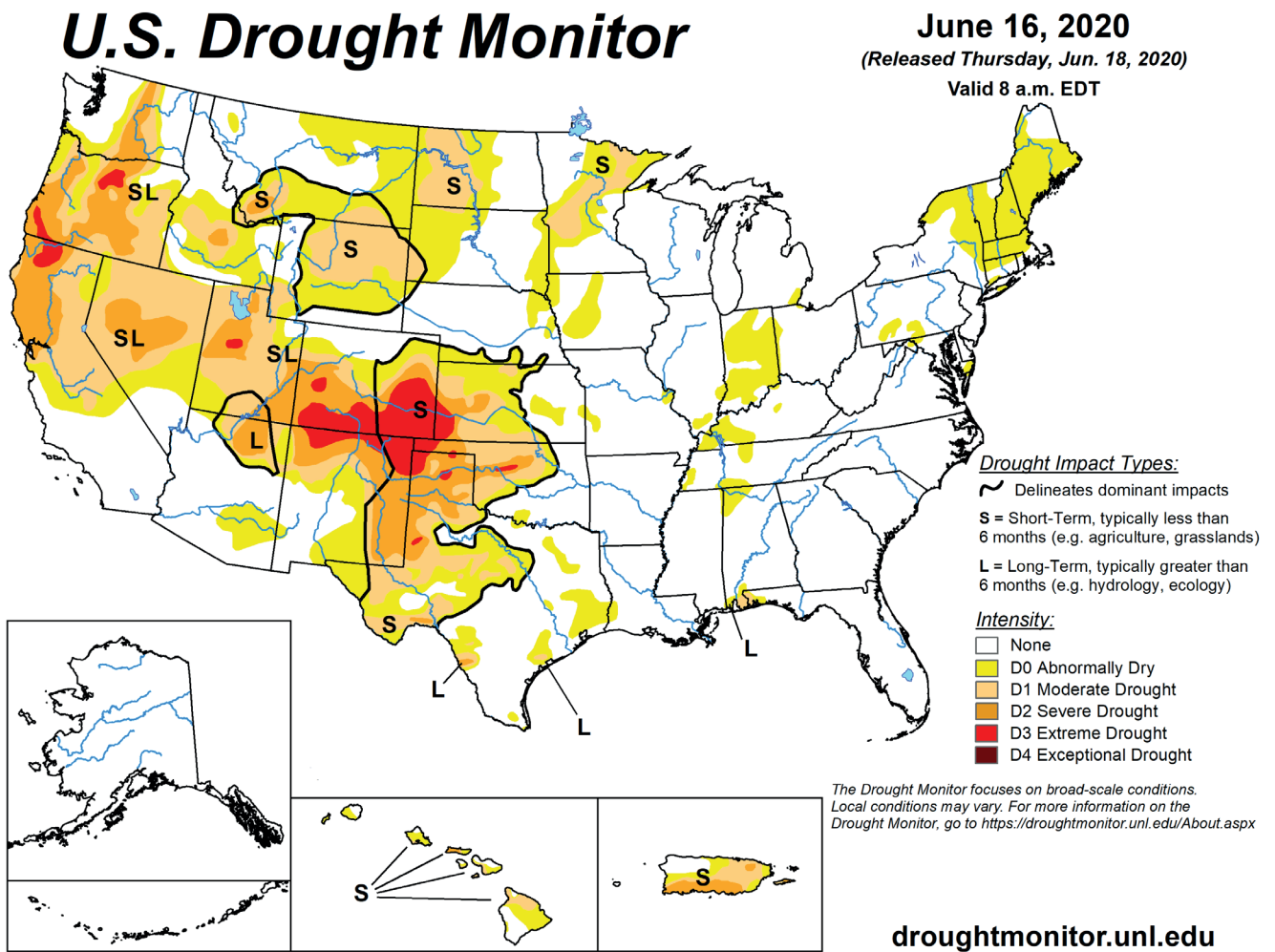
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**Instructions to candidates**

- Do not open this booklet until instructed to do so.
- This booklet accompanies paper 1.

Option A — Freshwater

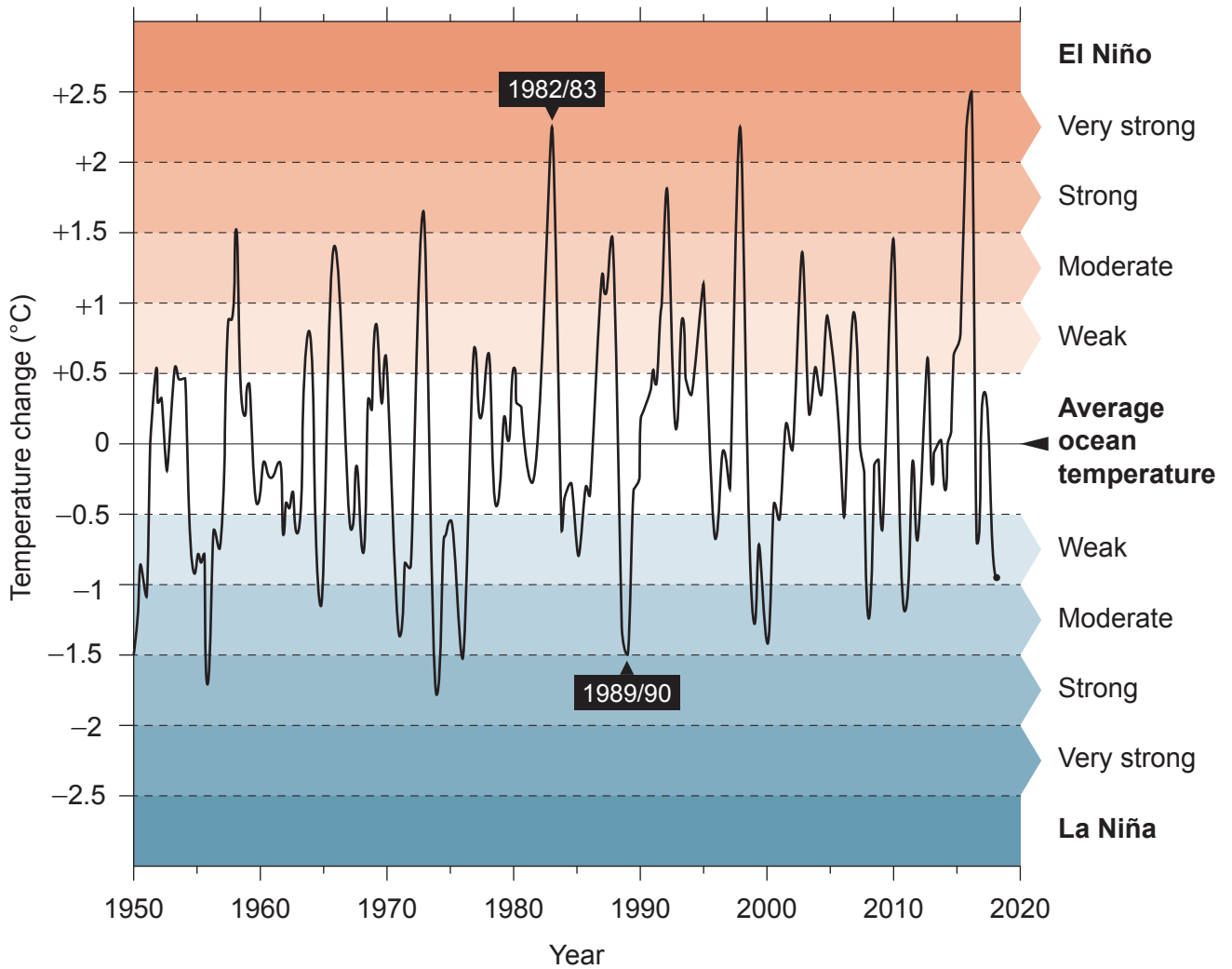
1. The map shows the drought intensity in mainland USA for 16 June 2020.



[Source: The U.S. Drought Monitor is jointly produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration. Map courtesy of NDMC.]

**Option B — Oceans and coastal margins**











3. The graph shows changes in ocean temperature associated with El Niño and La Niña from 1950 to 2018.



**Option E — Leisure, tourism and sport**

9. The map shows part of the Grand Canyon National Park in the USA.

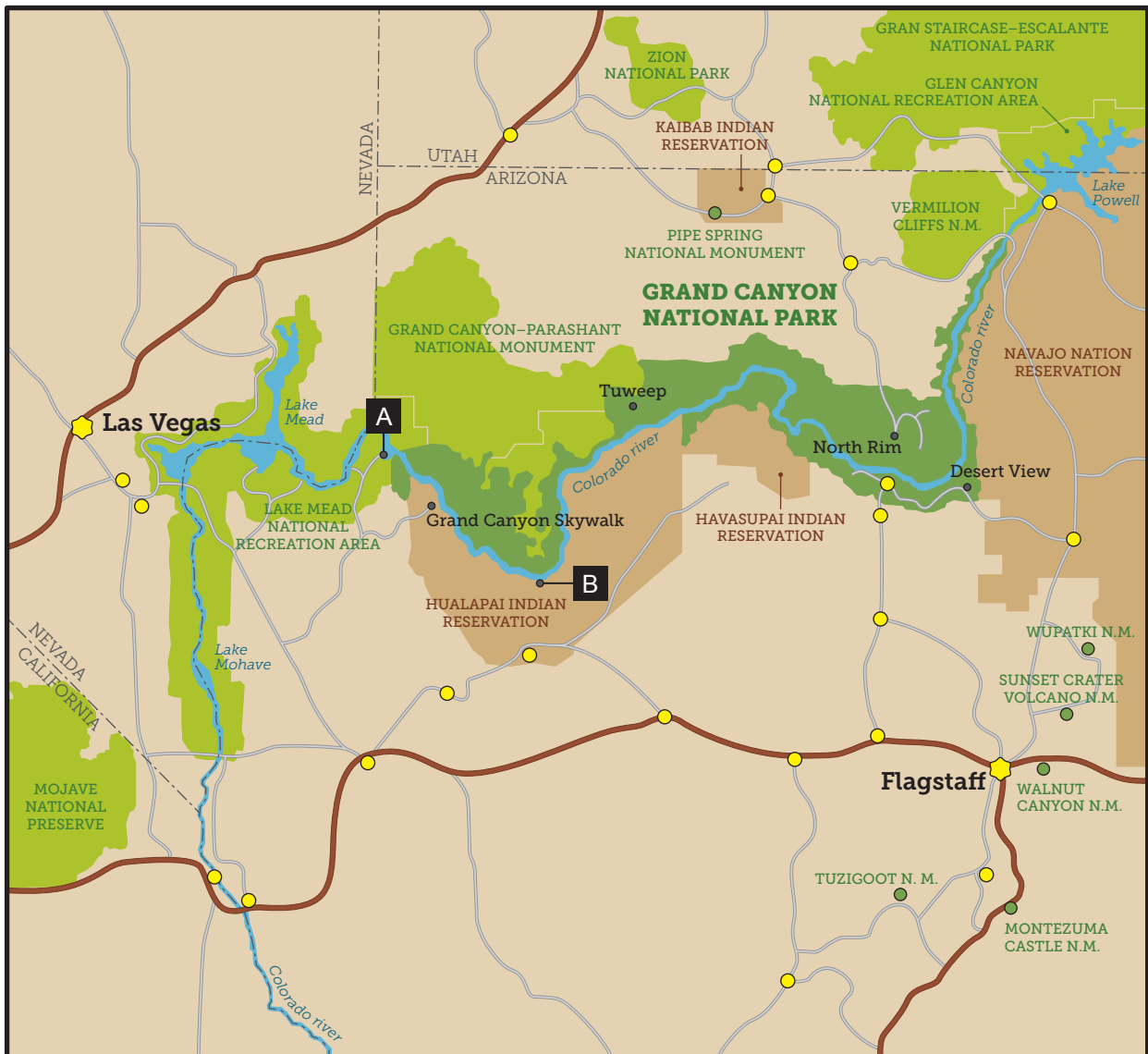
**Key:**

-  Major highway
-  Road
-  Large city
-  National monument (N.M.)
-  Other settlement
-  Viewpoint
-  Native American reservation
-  River / Lake
-  Grand Canyon National Park
-  Other national park / preserve / recreation area / monument

**Scale:**



**N**



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**References:**

1. The U.S. Drought Monitor is jointly produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration. Map courtesy of NDMC.
3. NOAA Physical Sciences Laboratory, n.d. *Oceanic Niño Index (ONI)*. [online] Available at: <https://courses.imperativemoocs.com/monitoring-the-oceans-from-space-01/week-1-oceans-andclimate/topic-1f-ens/oceanic-nino-index> [Accessed 7 October 2021] and NASA, *NOAA Oceanic Niño Index Region 3.4. Sea Surface Temperature Anomaly*. [online] Available at: [https://svs.gsfc.nasa.gov/vis/a030000/a030900/a030976/ONI\\_1950-2018\\_w\\_map\\_2018\\_05\\_AMJ\\_print.jpg](https://svs.gsfc.nasa.gov/vis/a030000/a030900/a030976/ONI_1950-2018_w_map_2018_05_AMJ_print.jpg) [Accessed 7 October 2021]. Sources adapted.
9. National Park Service. [www.nps.gov](http://www.nps.gov). No claim to original U.S. Government works. Source adapted.

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