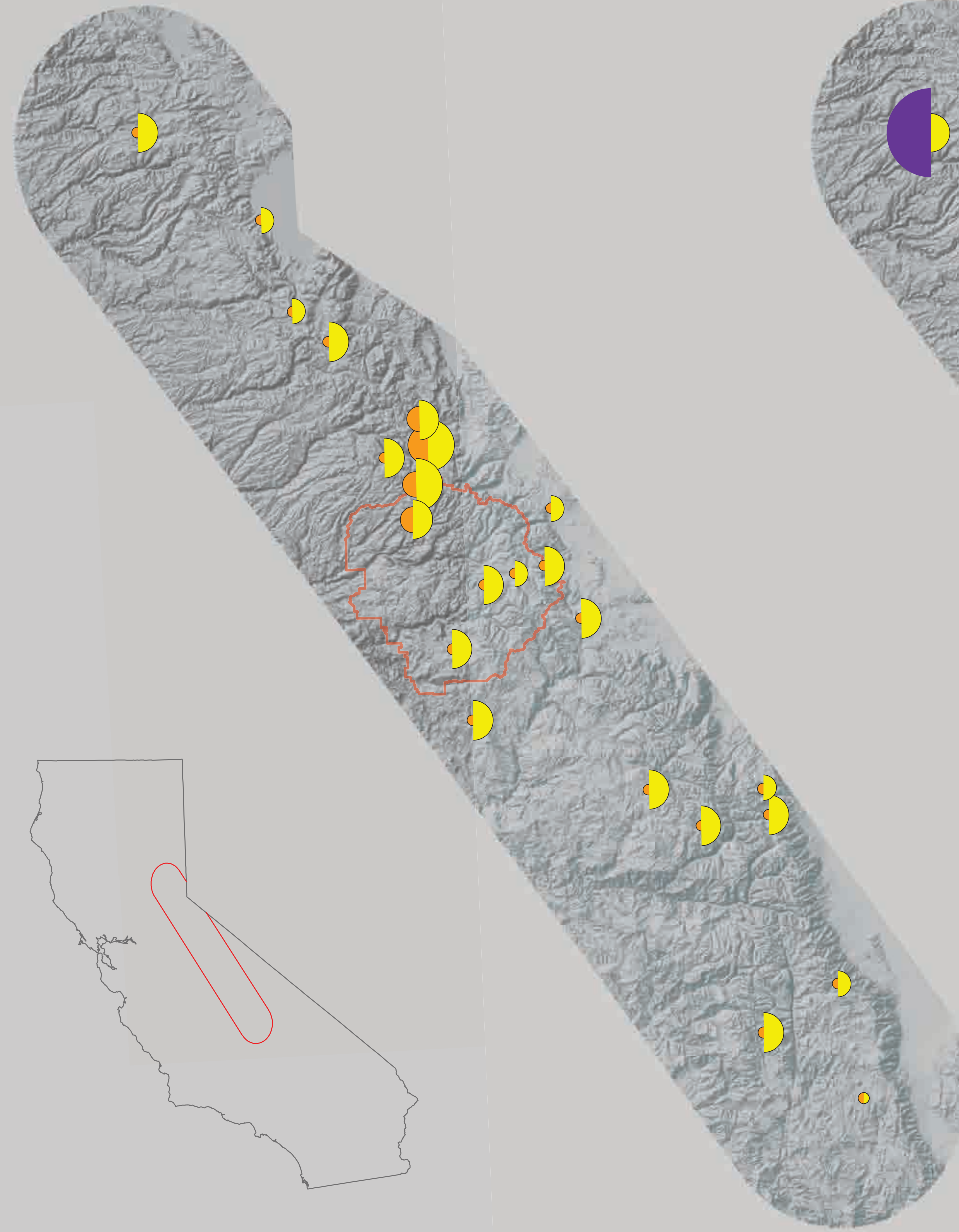


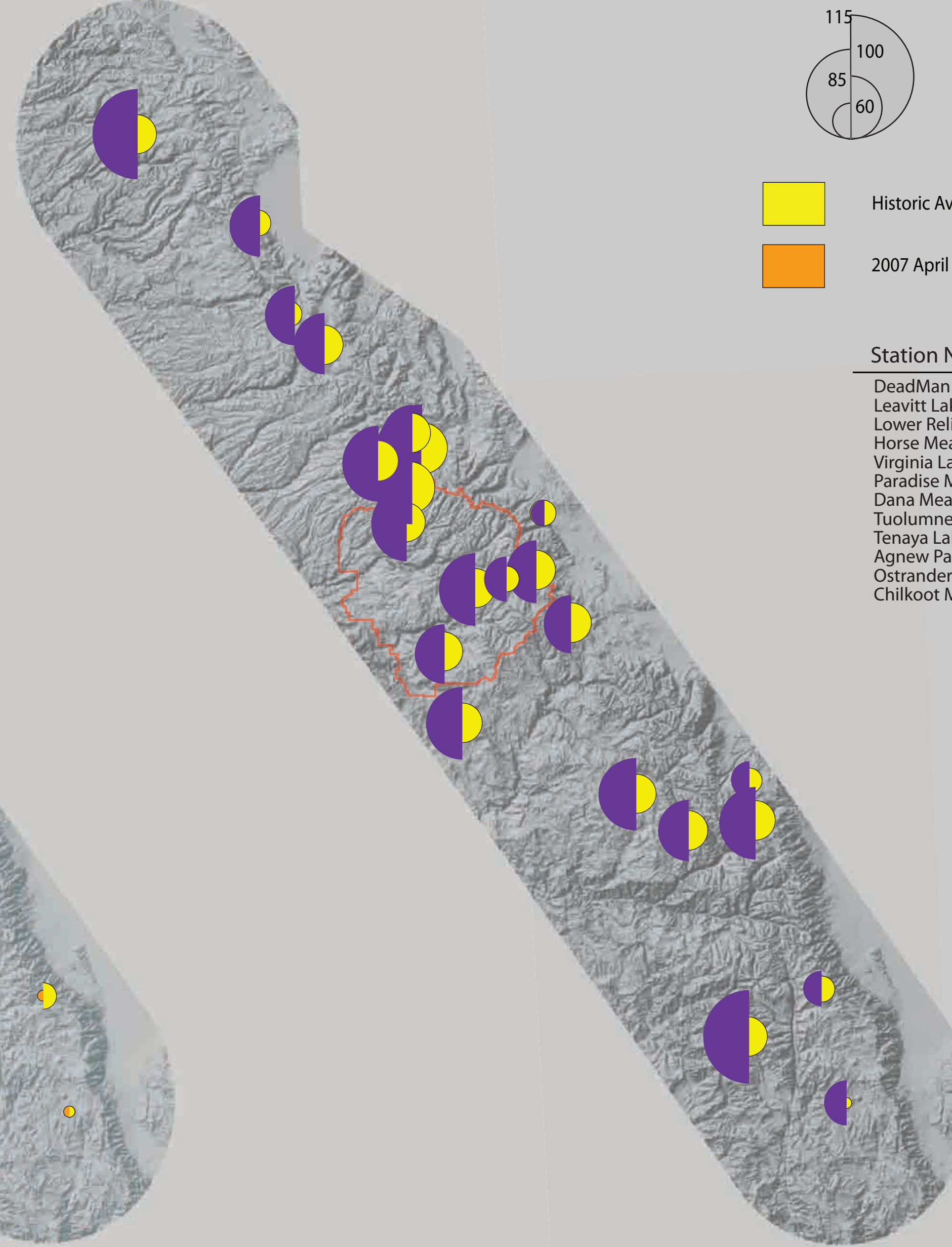
Snow Depth Measurements in the Sierra Nevada, 1930* to Present

Comparison of 2007, Historic Average, & Deepest April Snow Depths

2007 vs. Average



Deepest vs. Average



The California Department of Water Resources has recently announced that the snow pack for WY 07 to be 30% of normal. Comparison of the April 1 measurement for 23 Snow Survey stations with greater than 25 years of record are presented.

The April 2007 monthly average is plotted against the historic April average measurement across these sites. (left)

The historic average snow depth is compared to the deepest reported April depth. (right)

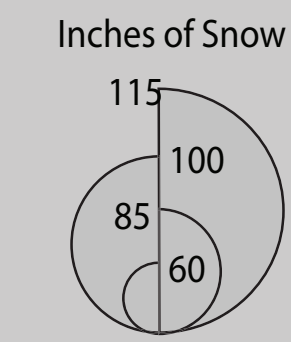
Sites were chosen based on these criteria:

- Greater than 25 years of record
- Monthly data availability

Survival of the snow pack on the surface is a function of three factors: insolation, air temperature and topographic setting. 12 stations from the analysis are featured in the insets. (far right) Topographic control is evident in familiar sites like Tuolumne Meadows, large open meadow, versus Tenaya Lake, a north facing hollow. Given similar air temperatures, Tenaya is likely to hold snow longer than Tuolumne Meadows. Analysis has begun to characterize topographic controls at other sites and model the relationship with snow depth. The interpolated values of snow depth (lower right) broadens the analysis using the snow stations as a reference.

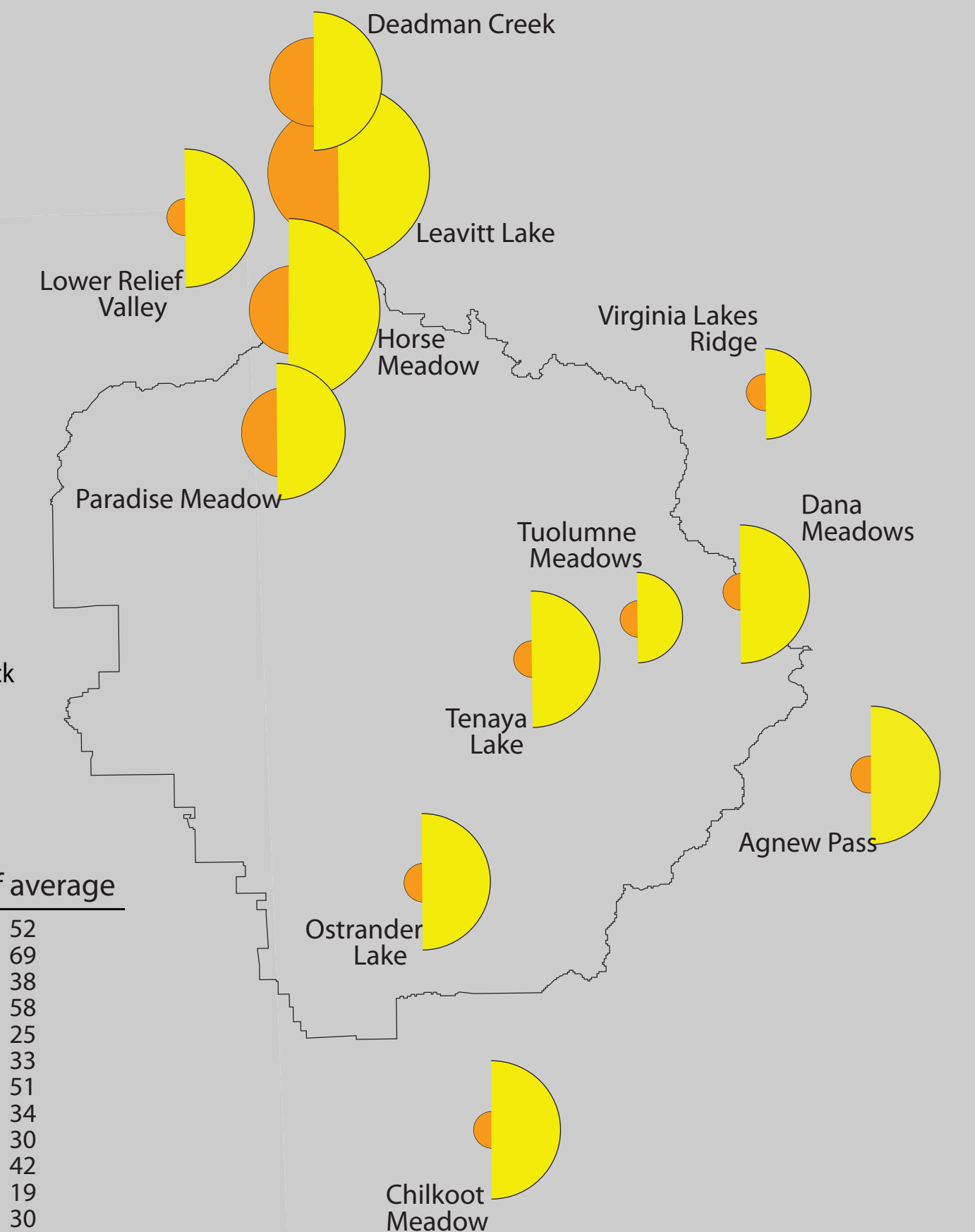
Data was collected on April 2, and does may over or underestimate the actual April average.

*Only 5 stations had a data record less than 60 years, with 3 stations reporting 81 year records. Therefore, the 2007 & Deepest snow depths are measured against the stations own average.



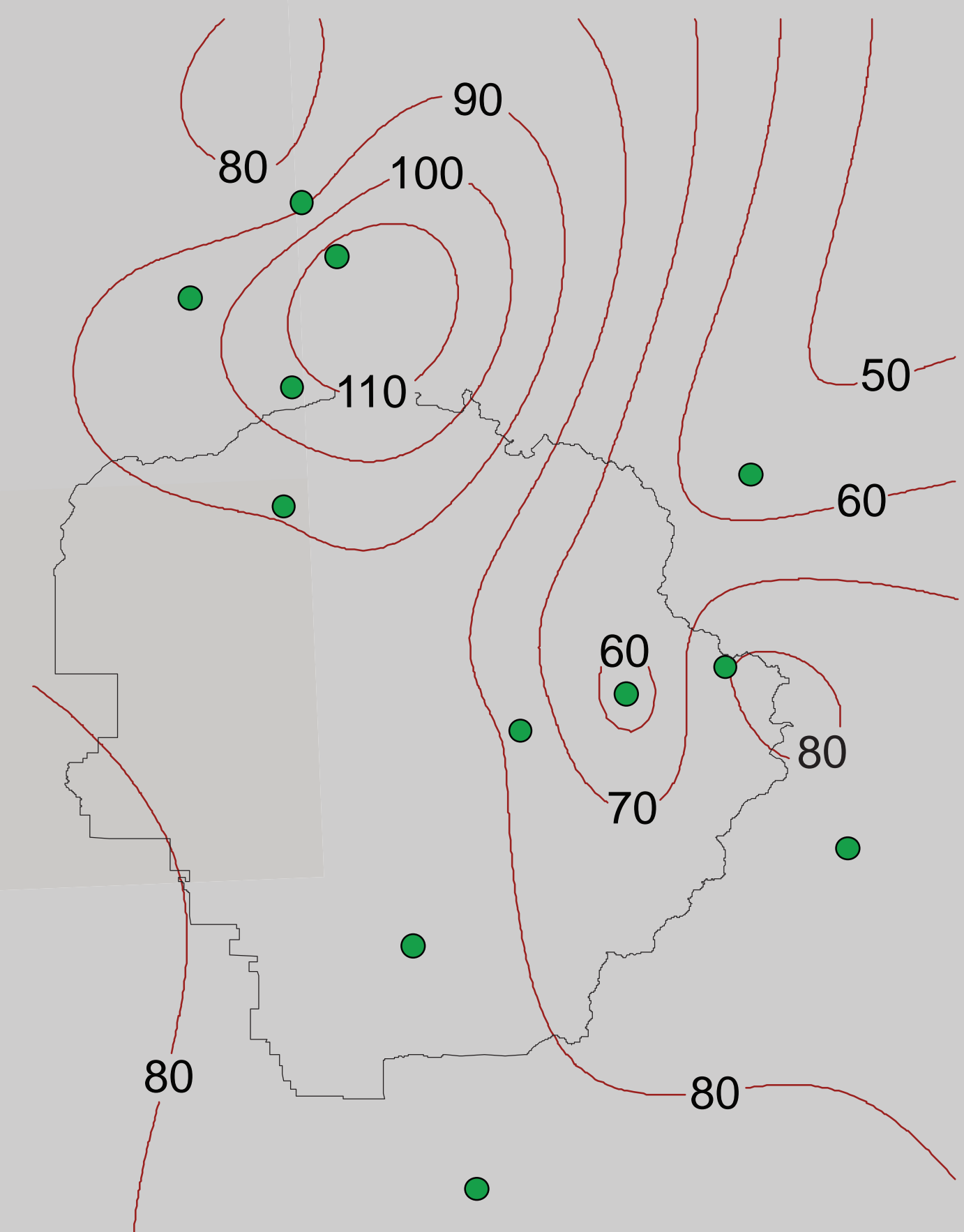
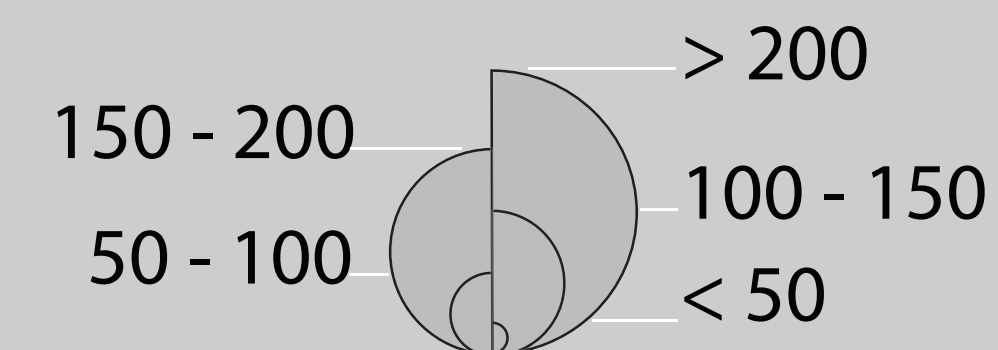
- Historic Average April Snowpack
- 2007 April Snowpack

Station Name	% of average
DeadMan Creek	52
Leavitt Lake	69
Lower Relief Valley	38
Horse Meadow	58
Virginia Lakes Ridge	25
Paradise Meadow	33
Dana Meadow	51
Tuolumne Meadow	34
Tenaya Lake	30
Agnew Pass	42
Ostrander Lake	19
Chilkoot Meadow	30



- Historic Average April Snow Depth
- 2007 April Snow Depth
- Deepest April Snow Depth
- Yosemite National Park

Inches of Snow



- Average April Snow Depth
- Snow Survey Station
- Contour Interval equals 10 inches of snow