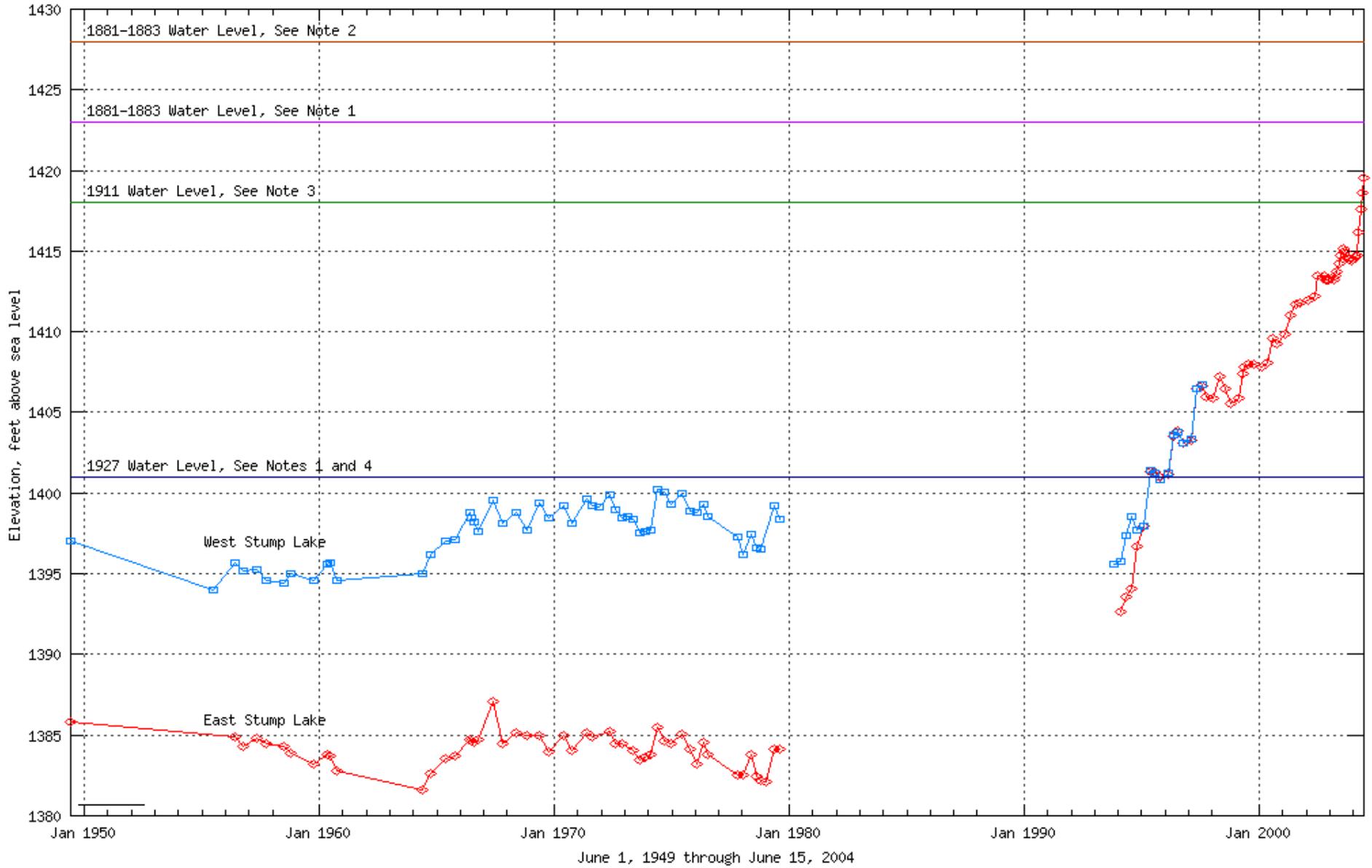


Water Surface Elevation, West Stump Lake and East Stump Lake, North Dakota



2004/06/24

See next page for notes and references.

Note 1: This water level was reported by Aronow (1957). He indicated that the water level was determined by comparing the original township plats with the 7.5-minute quads that have a 5-foot contour interval. Aronow (1957) also mentioned that the water level of Stump Lake was 1,401 feet above sea level when the old 15-minute quad was made in 1927. He indicated that sometime after 1927 the east and west bays of Stump Lake were separated and a road was constructed across the former lake bed.

Note 2: Simpson (1912, p. 122-123) reported that the area of Stump Lake was about 16 square miles in 1883. A surface area of 16 square miles occurs at an elevation of about 1,429 feet above sea level. Simpson (1912) also indicated that the maximum depth was 39 feet in 1911.

Note 3: Swenson and Colby (1955) indicated that, on the basis of Simpson's reported depth in 1911, the lake level of Stump Lake was 1,418 feet above sea level.

Note 4: According to Young (1924), the dissolved-solids concentration in Stump Lake was 19,000 milligrams per liter in 1912 and 25,450 milligrams per liter in 1923. The dissolved-solids concentration in East Stump Lake was 17,600 milligrams per liter on July 24, 1995.

References

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