

## Huntington Horseshoe

The Huntington Horseshoe snow course is on top of the Wasatch Plateau near the head of Fairview Canyon and at an elevation of 9800 feet msl. The course is in a very large, open meadow near timberline and is susceptible to wind related deposition and erosion. It is also susceptible to recreational activities such as snowmobiling and kite boarding. In 2007 there was a new parking lot created on the east side of the course. Fortunately, this is downwind for the vast majority of all storm events but it could have some impact via recreational users. There will be an informational kiosk explaining the site and urging individuals to stay away from the snow course. This course has had no vegetation changes of any significance over the period of record. It looks today nearly identical to the way it appears in the early 1936 photos. It has been potentially impacted by weather modification since the 1970's.

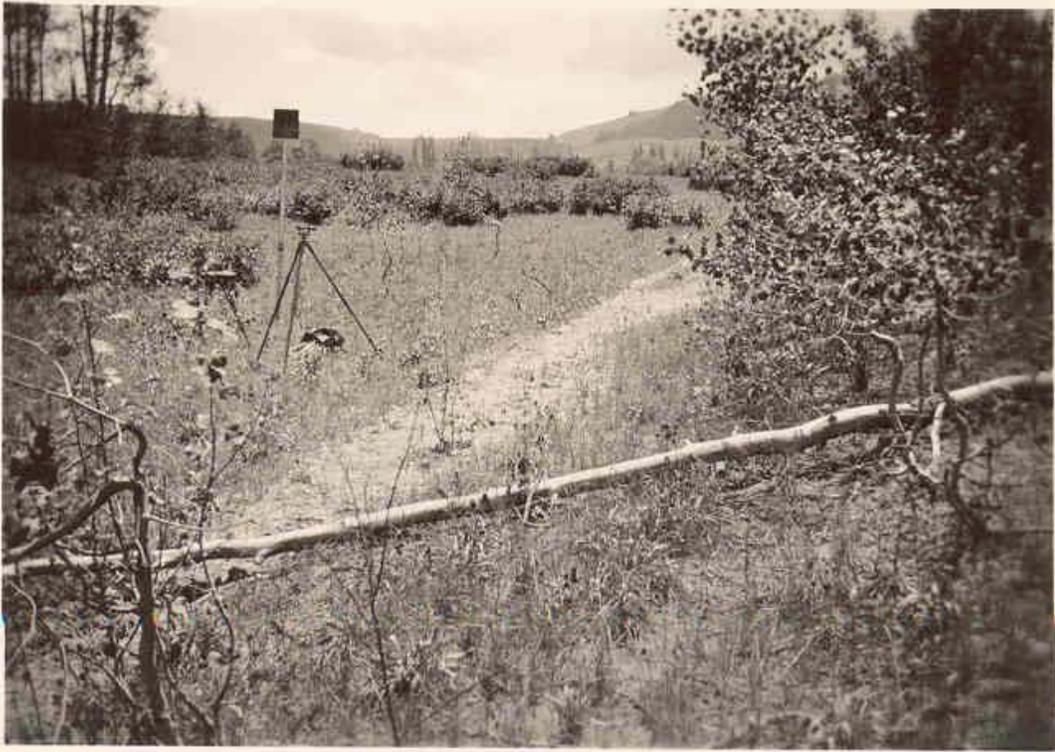
Potential weather modification: 74-83, 88-



Huntington Horseshoe looking north across Fairview lake.



The north end of the snow course in an area no longer measured.



The snow course from the north end looking south. This end is no longer measured.



The course in 2005 looking north similar to photo 1.



The course looking to the south. The course has no trees at all, primarily grasses and forbs.

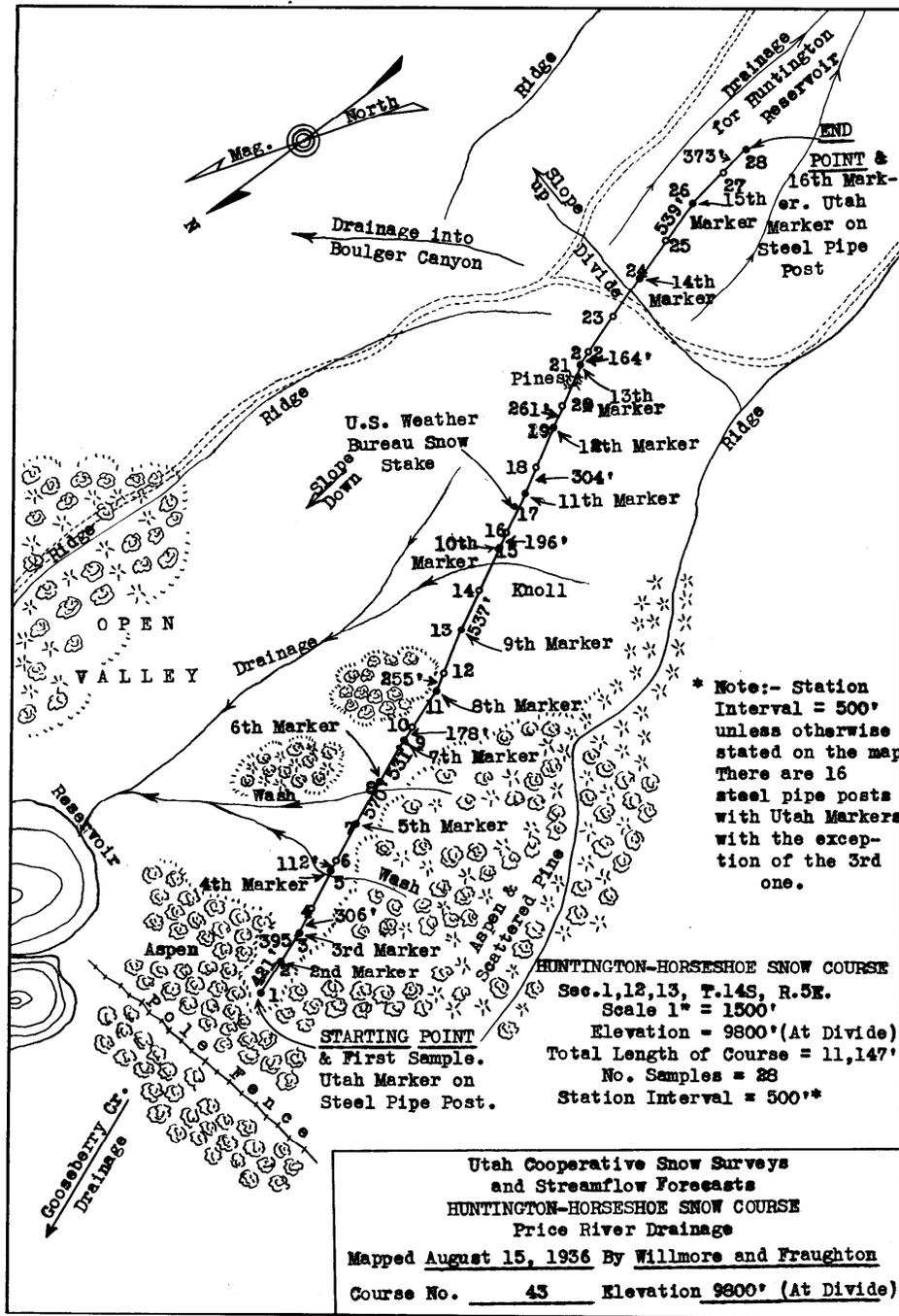


Potential impacts from snowmobiles. Looking north along the course in March 2003.



Potential impacts from kite boarders. Looking south along the course.

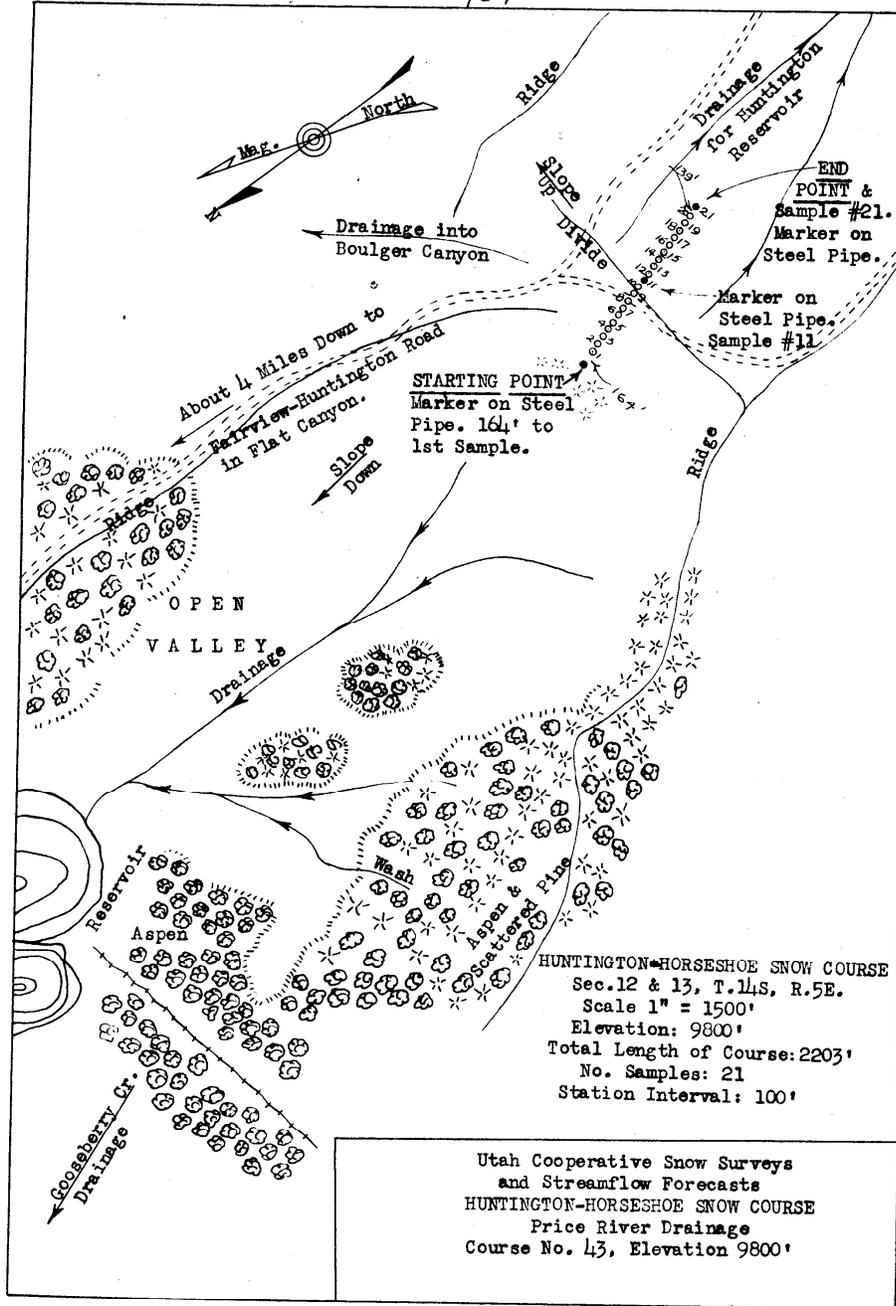
Overall, this site has had no changes in vegetation, but is impacted to some undetermined degree by recreation as well as weather modification.



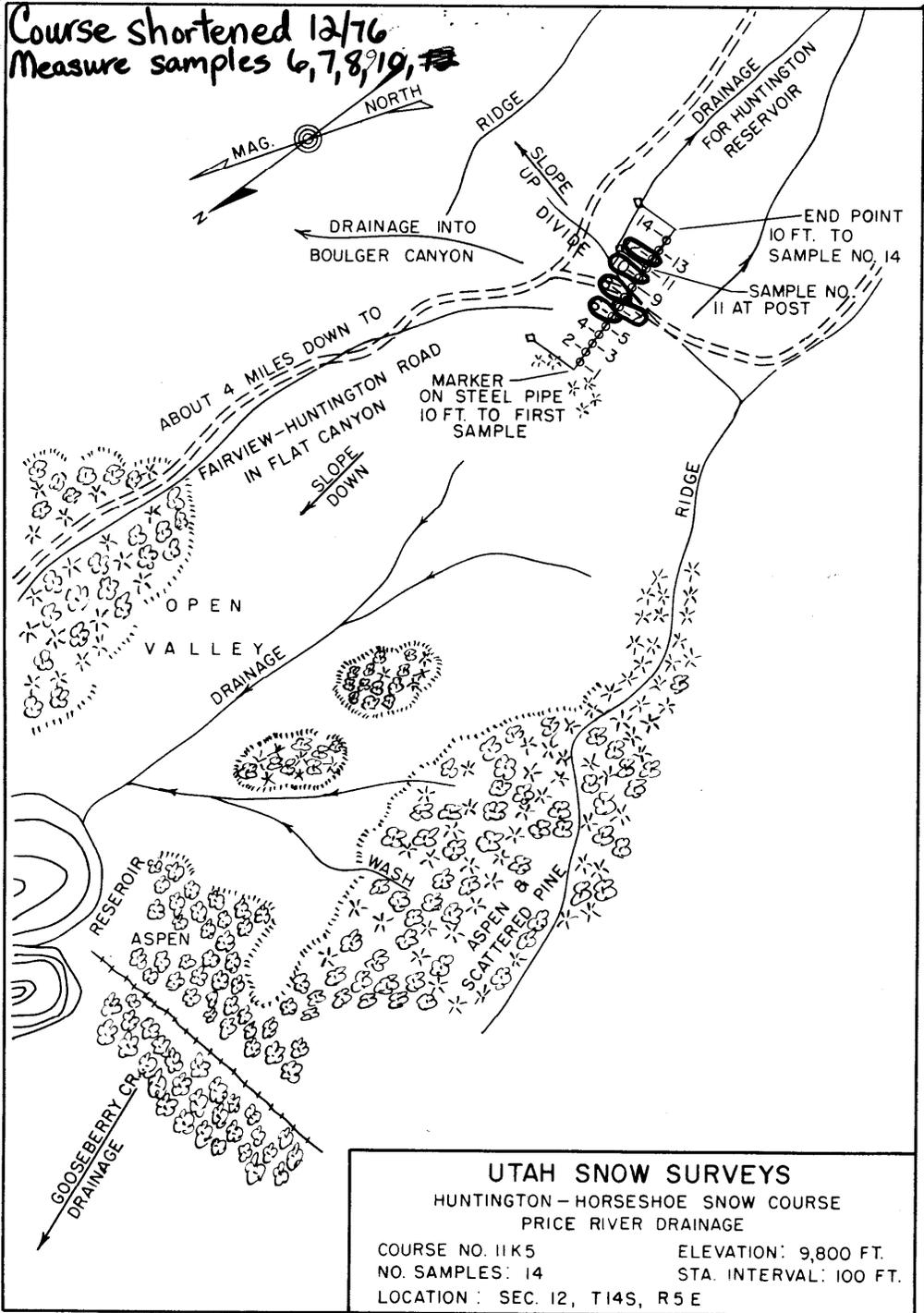
Original Huntington Horseshoe snow course map, 28 samples at 500 foot intervals (gasp).

Course cut 12/51

used 1-14



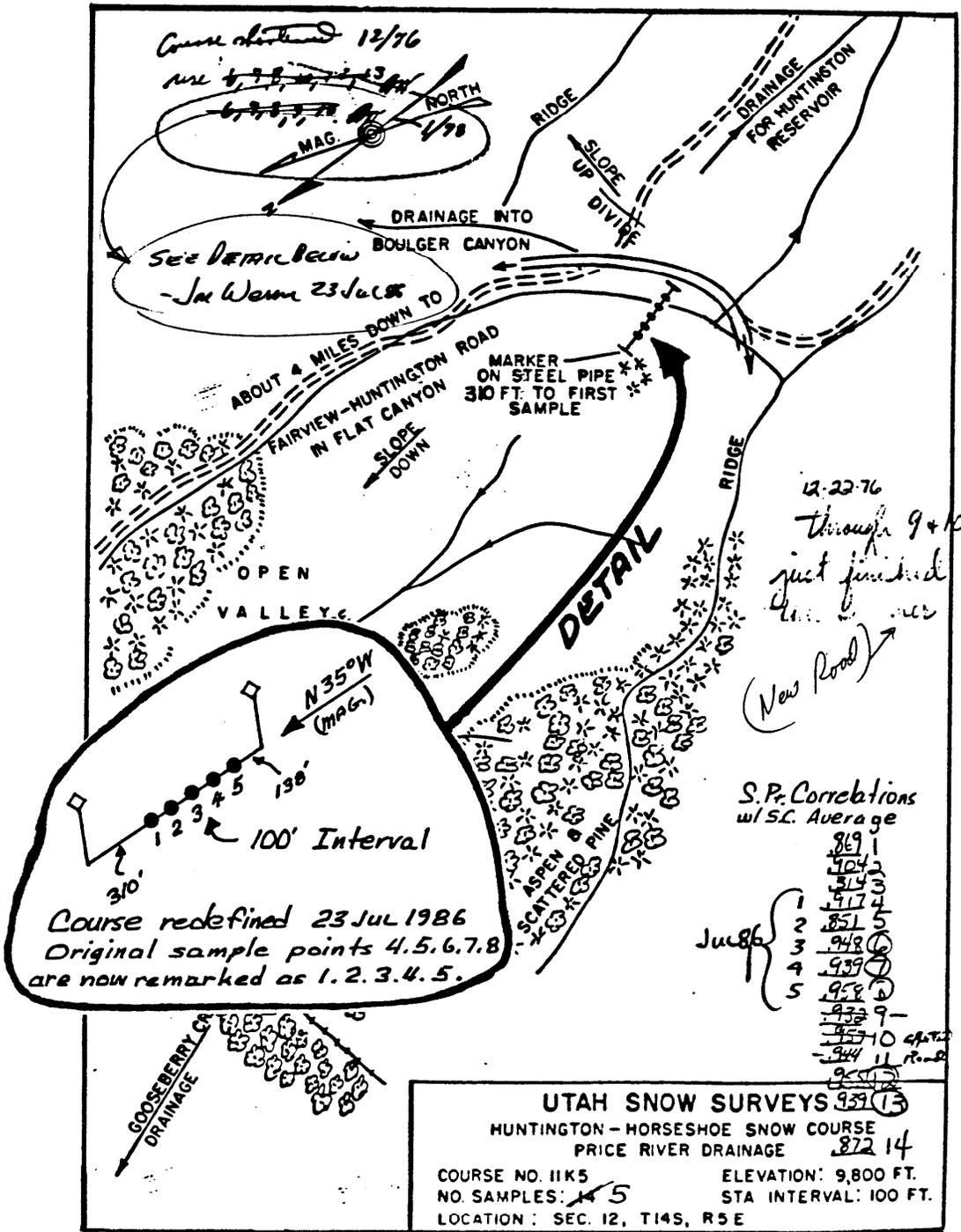
Course shortened in 1951 to 21 samples, interval 100 feet.



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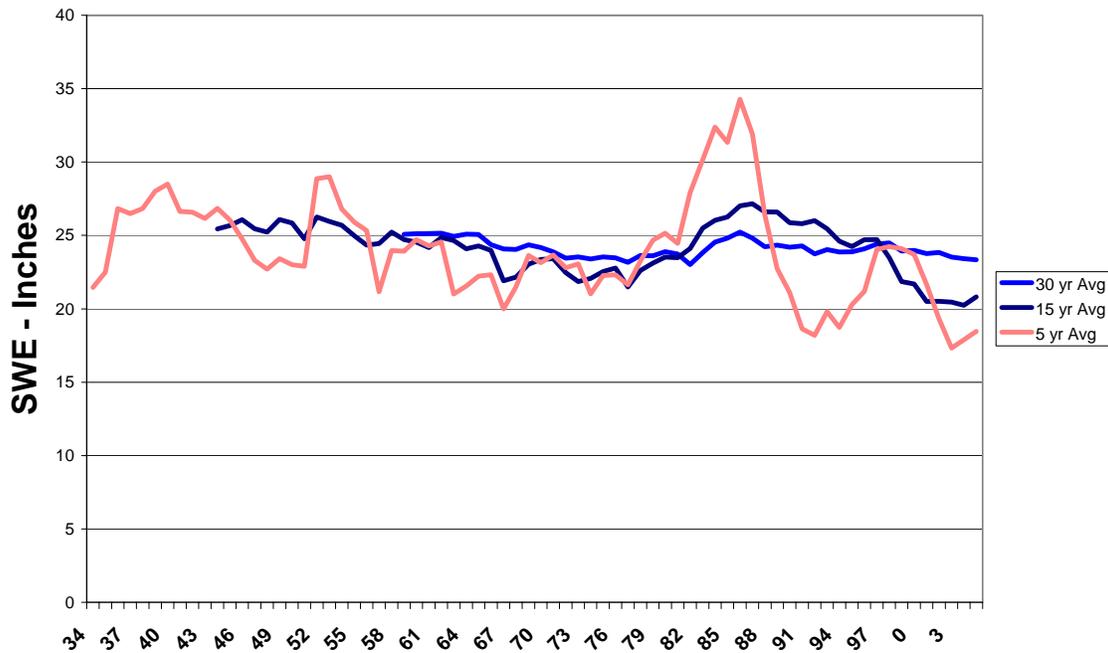
Course shortened in 1976 to 5 points.



Sample points renumbered in 1986, statistical analysis (correlation coefficients per point relating individual samples to the course average) on lower right of map.

When a snow course was shortened, the original points continued to be measured although renumbered, thus points 1,2,3,4 and 5 may have originally been points 13,14,15,16 and 17. This map also shows the relative position of vegetation and other features with respect to the course. Distances are not measured and asterisks do not represent individual trees rather a general depiction of vegetation. The density of vegetation is also relative and not absolute.

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This chart shows a fairly steady 24 to 25 inches of April 1 SWE over time. Compared to other sites with substantial vegetation changes, this site has remained pretty much constant. This site could be used for long term comparison but should have some adjustment for weather modification.

R Julander  
2007