

Tim & Sue Mitchell

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Sent: Thursday, October 21, 2004 1:26 PM
Attach: StewartLanding.xls
Subject: Height Differences

Tim

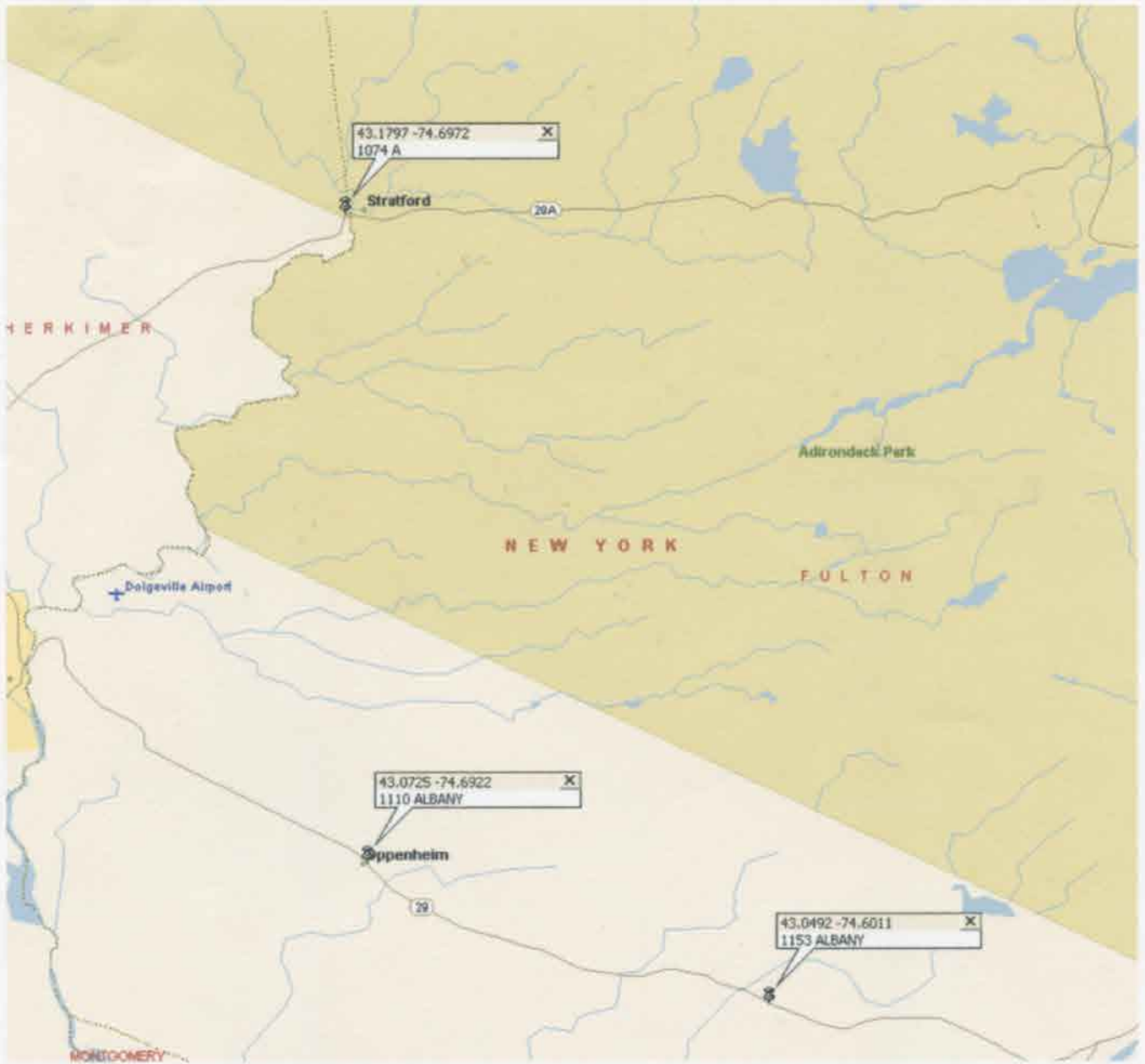
I have researched all the data maintained by the National Geodetic Survey in the National Spatial Reference System. As I indicated in our conversation I was unable to find any bench marks in the vicinity of Stewarts Landing from the U.S. Coast & Geodetic Survey (USC&GS), now called the National Geodetic Survey (NGS) that predates 1943. I did however find four bench marks from the U.S. Geological Survey (USGS) for which I have the NGVD 29 heights as determined by USC&GS as with the 1912 Fourth General Adjustment heights from historical USGS publications. The average height difference from the 1912 to NGVD 29 is +0.82 ft. My computations are attached along with a map showing the distribution of these marks (below).

I hope these data are helpful to solving your problem. Please let me know if I can be of any further assistance.

Regards -- Dave Doyle

1912 FOURTH GENERAL ADJUSTMENT → NGVD 29
+ .82' =

10/21/2004



Shift from the USC&GS Fourth General Adjustment of 1912 to NGVD29

Vicinity of Steward Landing, NY

SHIFT (ft) Std Dev. (ft)

| 0.82 | | 0.04 | | | |
|--------|-------------|-----------|---------|------------|---------------|
| PID | DESIGNATION | USCGS1912 | NGVD29 | DIFFERENCE | Location |
| OE1561 | DISK USGS | 1527.20 | 1527.96 | 0.76 | Caroga Lake |
| OE0327 | 1110 ALBANY | 1109.82 | 1110.65 | 0.83 | Oppenheim |
| OE0360 | 1074 A | 1074.47 | 1075.32 | 0.85 | Stratford |
| OE0332 | 1153 ALBANY | 1152.97 | 1153.82 | 0.85 | Lassellsville |

Sources

1912 Elevations - U.S. Geological Survey Bulletin 671 "Spirit Leveling in New York 1896-1905 and 1912-1916"

NGVD 29 - National Geodetic Survey Data Base (National Spatial Reference System)