EOSS-202 Balloon Flight Update

(L to R) Dr. John Conn *[dad],* Gracie *[sis],* **Devin *[Edge of Space Pioneer]*,** Joanie *[mom],* Tess Finan *[visitor-friend from Monument]*

Our own Devin Conn KDØYZ0 flew his payload on the Edge of Space Sciences balloon flight 202 this Saturday morning, October 25.

It launched from Deer Trail east of Denver and landed about 65 miles ENE from there, having attained a maximum altitude of 102,800 feet! All payloads were recovered intact. "Payload looks great!" said the Conn's.

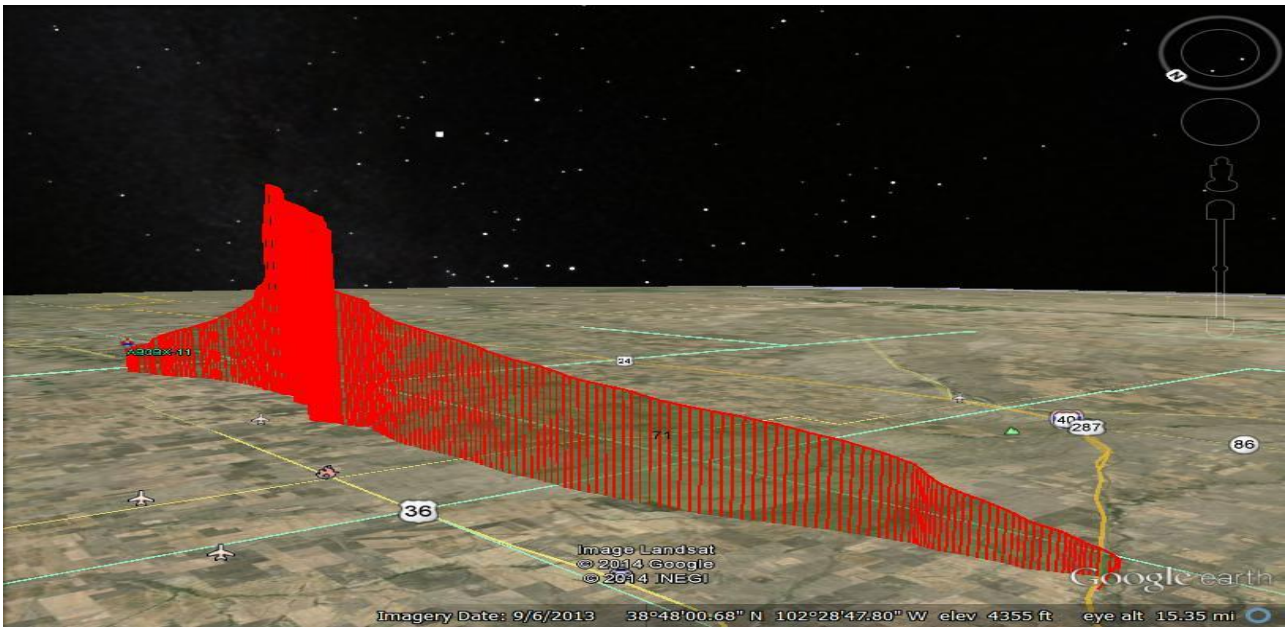
Devin and his dad, Dr. John Conn KØJMC are valued members of Pueblo West Amateur Radio Club.

This flight was a combined STEM School and Academy project, and all 7 payloads were designed and constructed by students ranging from grade school through high school. It included 3 payloads from Douglas County schools, 1 from the Boulder Young Amateurs, 2 from the New Mexico STEM program—and Devin, who is a Corwin International Magnet School student.

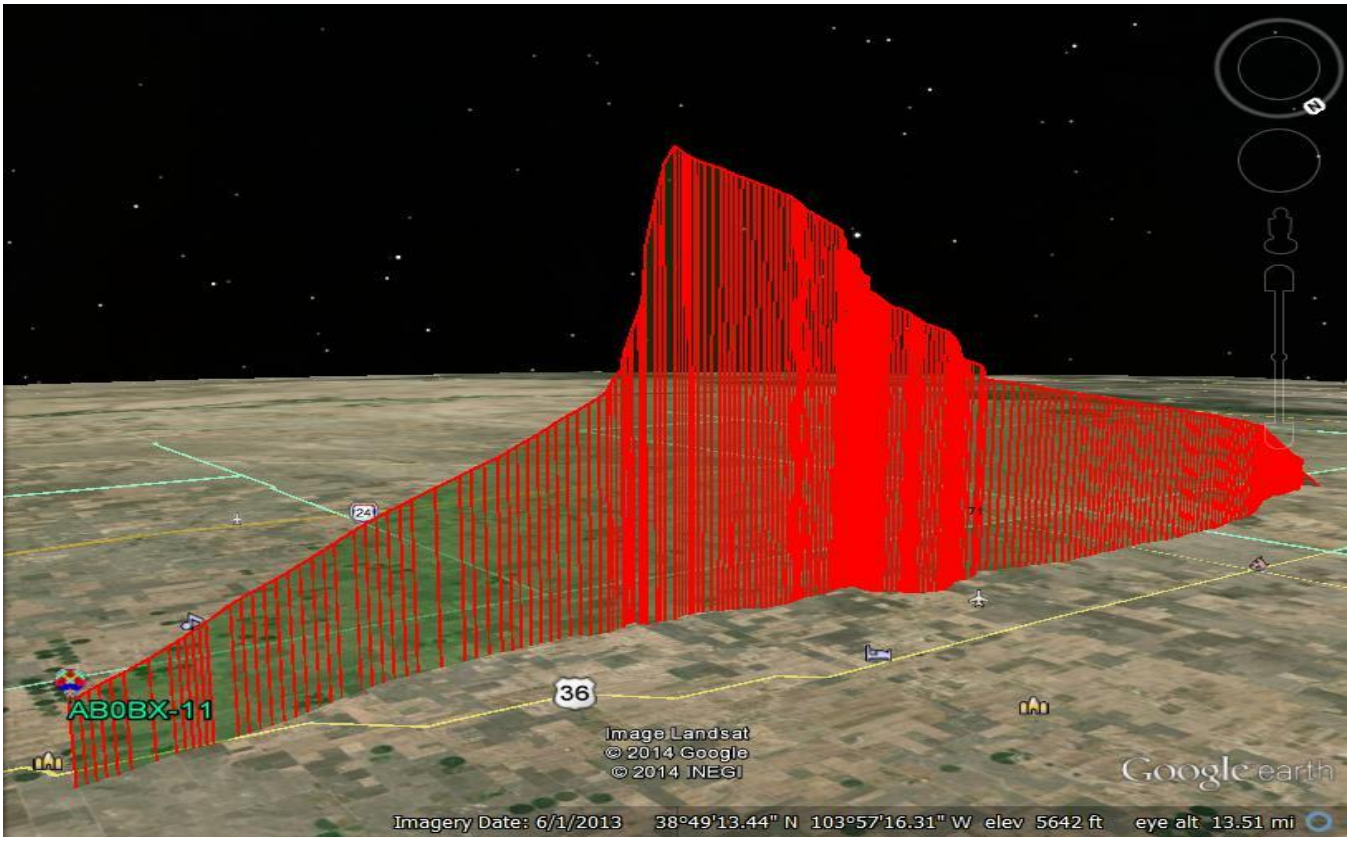
Devin's payload measured the changes in sound propagation with altitude and depleting atmosphere. It consisted of a tone generator with transducer, and a digital recorder with mike that also placed time-stamps. The transducer and mike were separated within the package at a specific distance so as to accurately record the changes during flight. It was powered with a lithium-ion battery, which is best able to withstand the extreme cold. The maximum allowable weight for his payload was 300grams, and he came in under that. Once they have the payload back home, the recording will be fed to an oscilloscope for analysis and comparison against the flight time-stamps versus altitude.

During the flight, one of Devin's exclamations was "Awesome!" And, they still had a visual on it while the balloon was at maximum height! The chase and recovery crew chaperoned all of the students to the recovery scene, where they then could help retrieve their payloads. (More details at eoss.org)

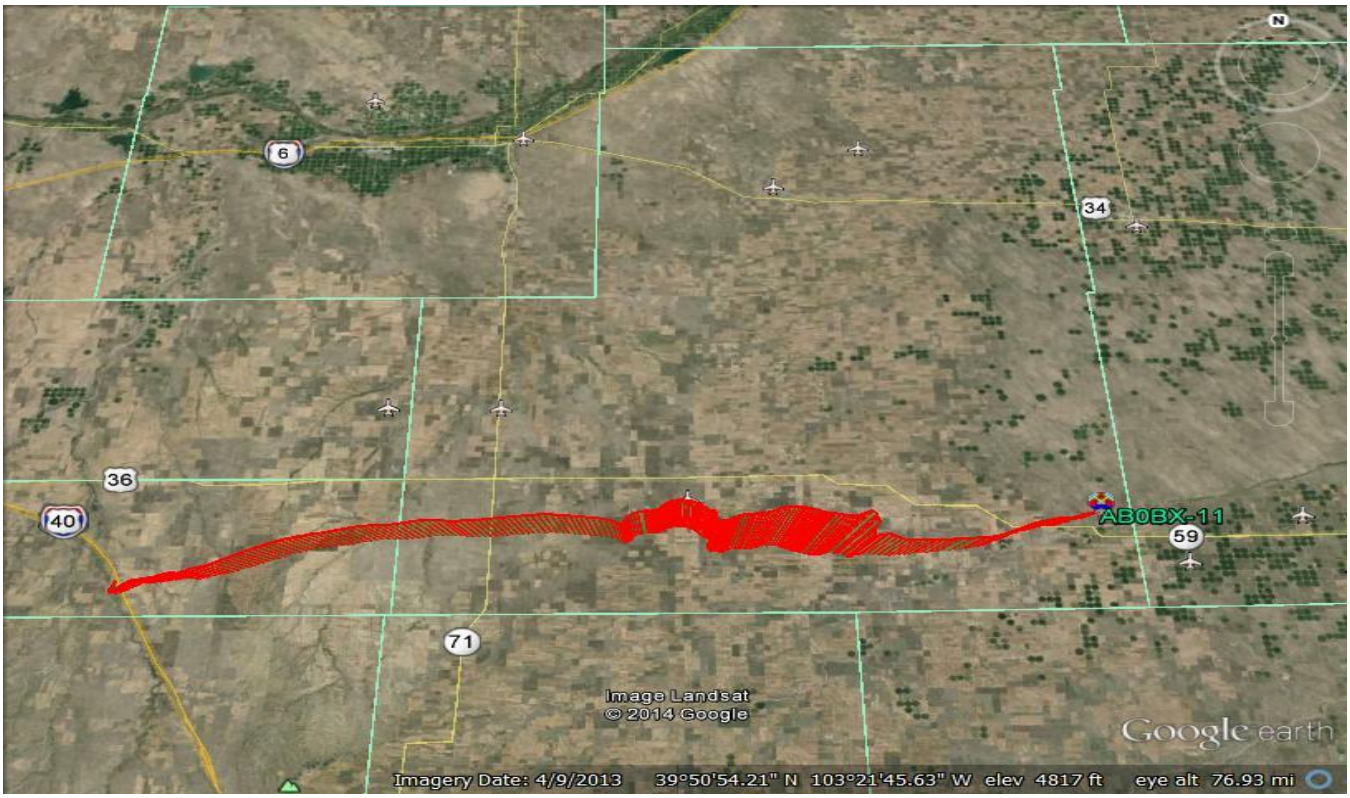
Congratulations Devin!



Flight Path and Relative Altitude, Looking Southeast
Launch was at lower right, last beacon and landing 65 miles east, on left



Flight Path Looking Southwest, max altitude was about 102,800 feet.
Launch is small 'tail' at extreme-right, final beacon is on left when it was still above 10,000'.
The faster the balloon was moving horizontally, the farther apart the beacon lines.
It traveled at speeds of about 4mph to about 50mph.



View Looking North

I-70 and Deer Trail launch point on left,

Actual landing site was several miles ENE or to the right of the last beacon, in open country