

Amateur Radio Journeys To The Edge Of Space

Or

DXpeditions To The Stratosphere

Still Cameras Have Documented The Flights

I would like to show you a collection of
some of the pictures from 7 of the
flights of the Lanark Space Agency
LASA

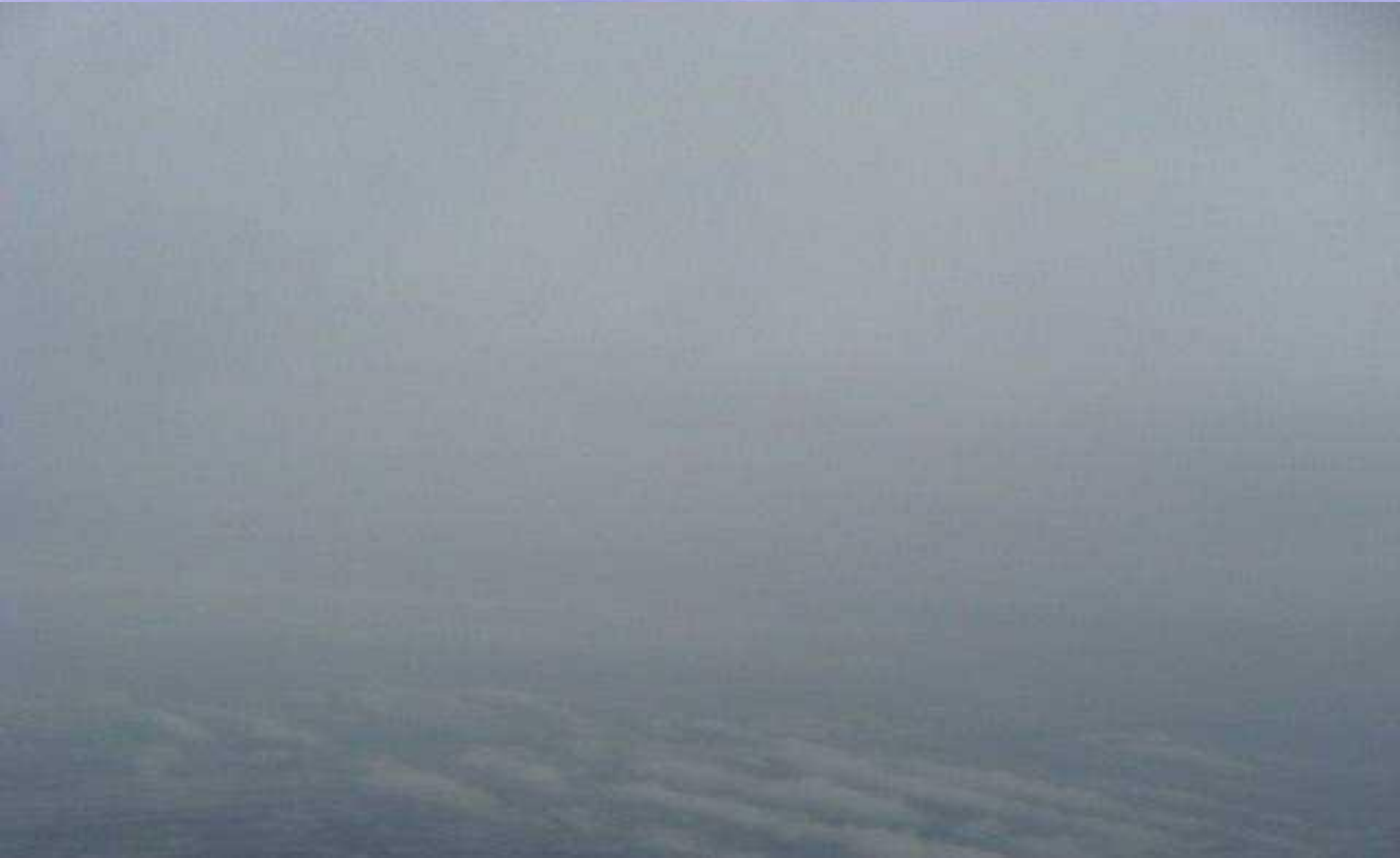
The Vehicle



First Picture On Our Journey



Into The clouds



Out Of The Clouds



At The Edge Of Space



122,886 Feet



The Balloon Bursts

The Camera is Looking Down



The Flight Package Tumbles



Fragments of The Balloon In View



Descending On The Parachute



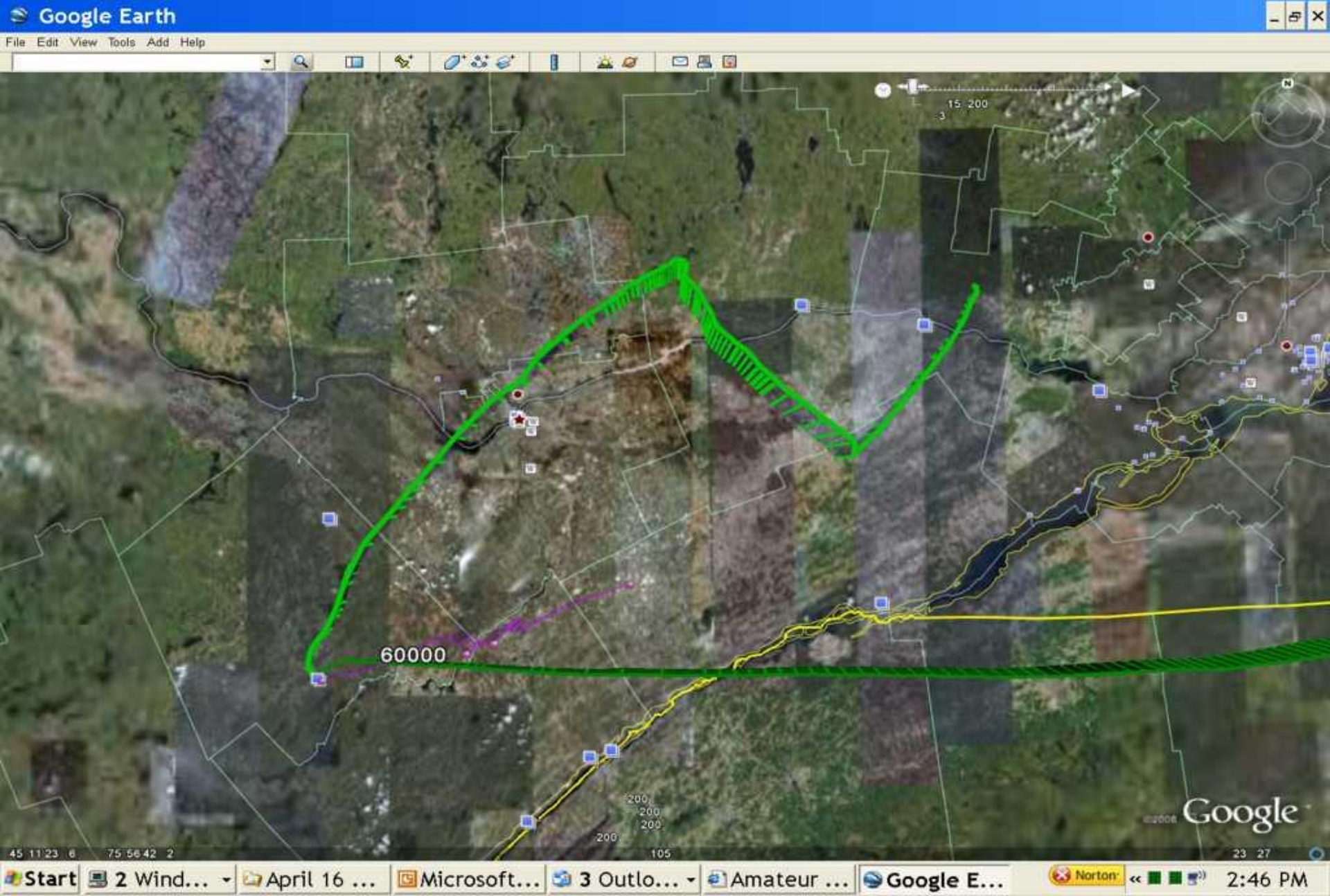
Back On The Ground



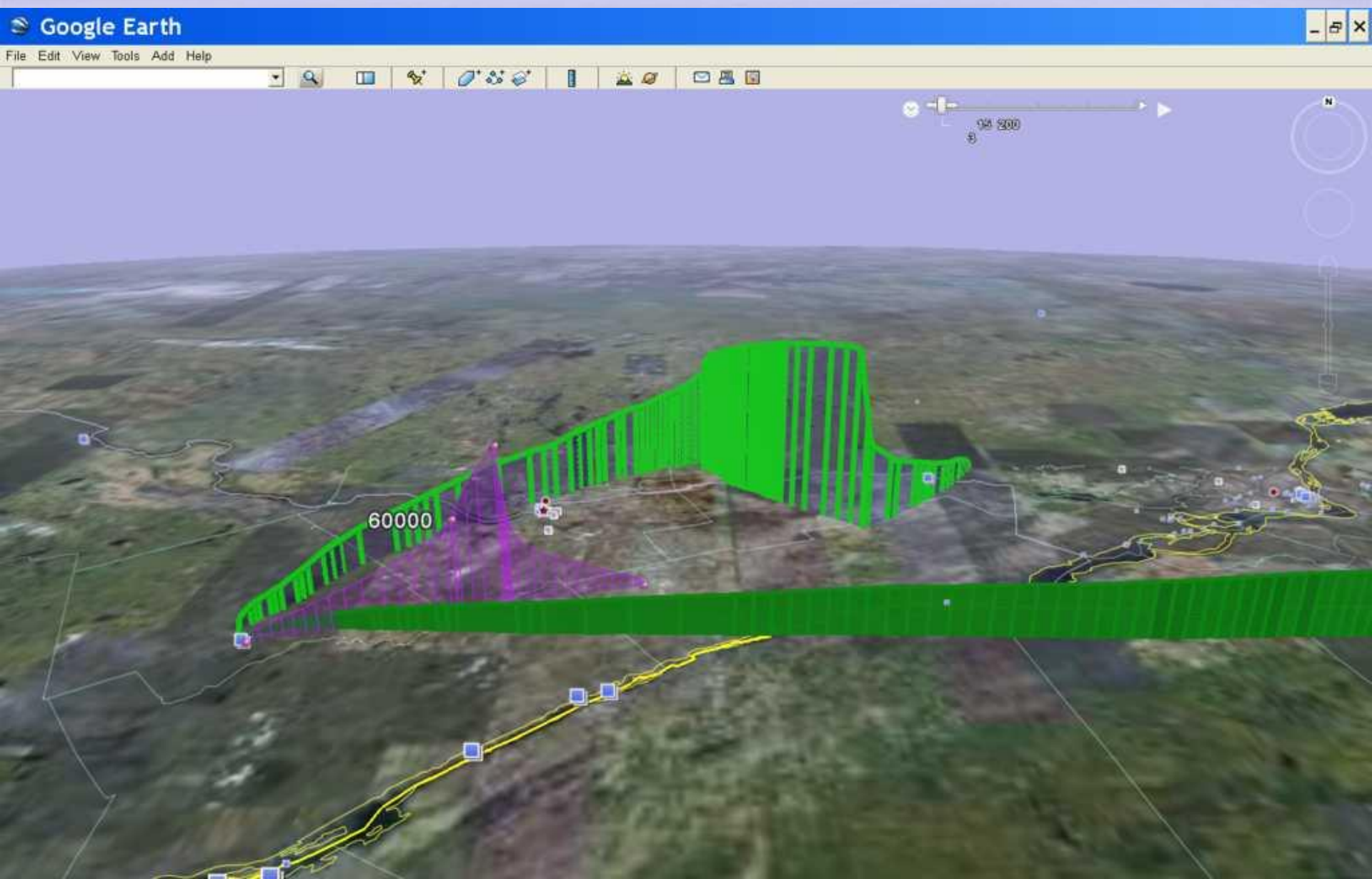
The Recovery Team



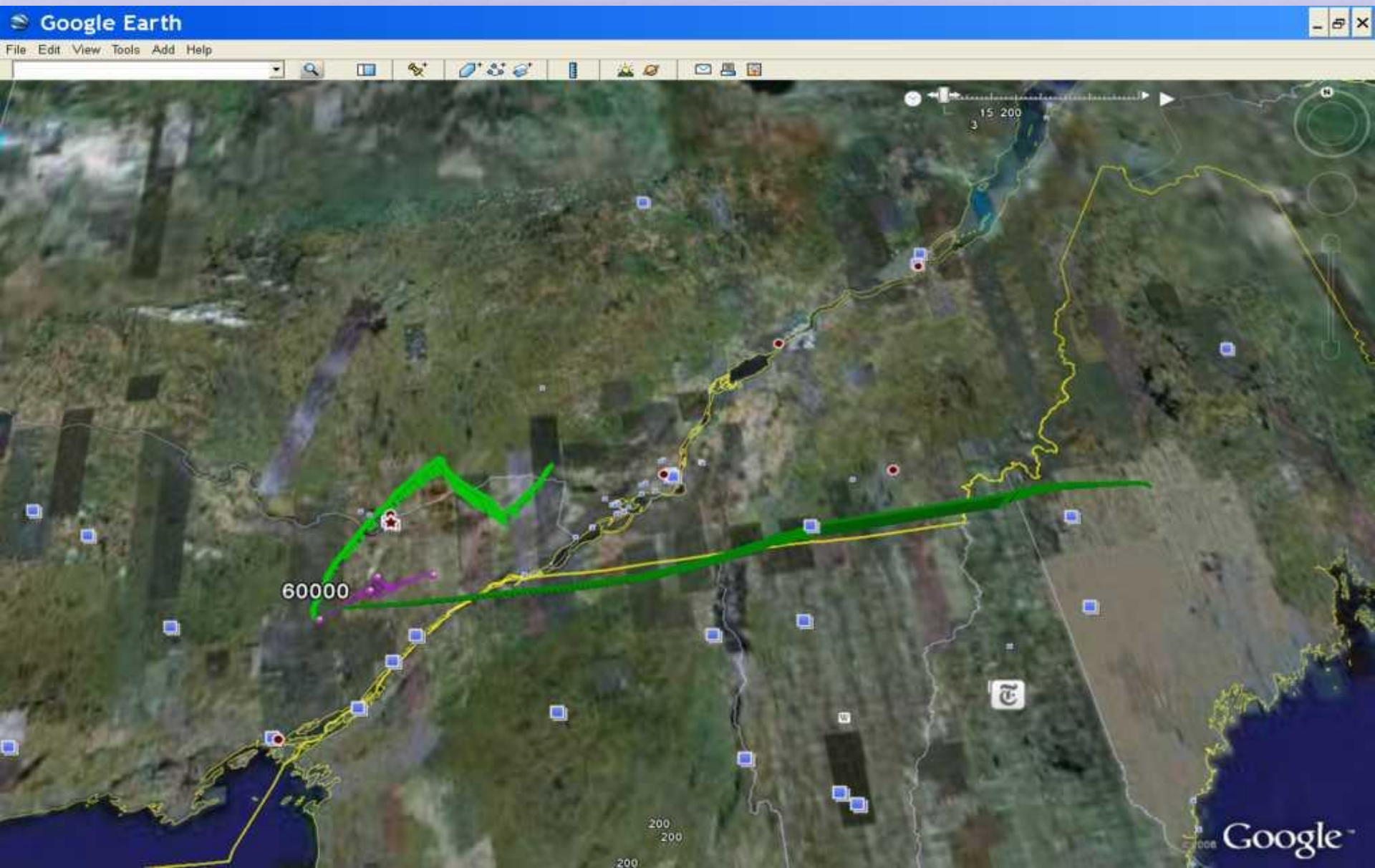
Path Of The Journey



The Vertical Flight Path



LASA 1 Maine LASA 3 Quebec



How It Was Accomplished



Helium Fuels The Balloon Inside In Inclement Weather



Outside When Conditions Permit



Hydrogen For Altitude



Free Lift Measurements



Free Lift Measurements



The Original Flight Package



Flight Package

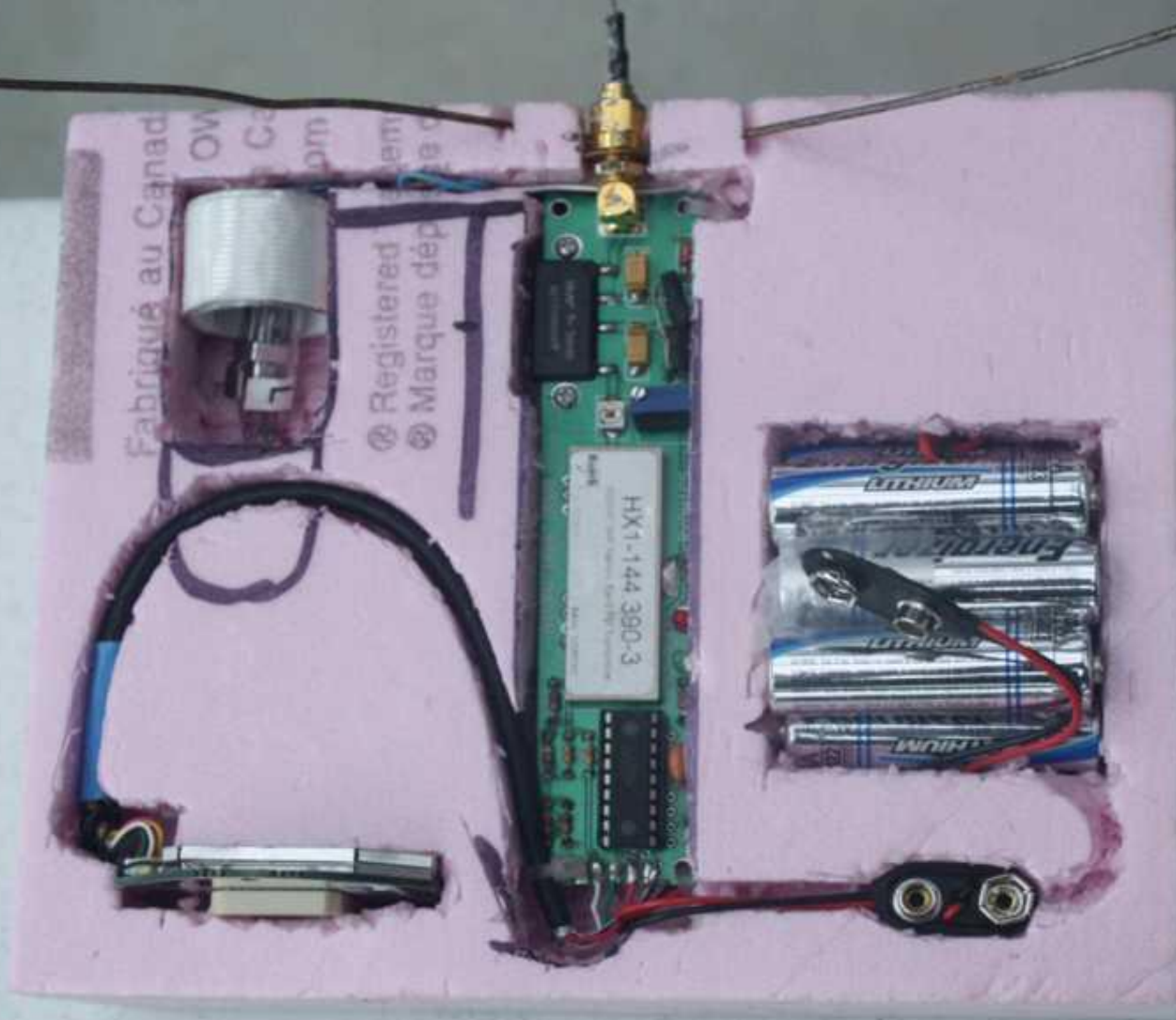
Tracking Transmitter, GPS, Camera, Batteries, Antenna



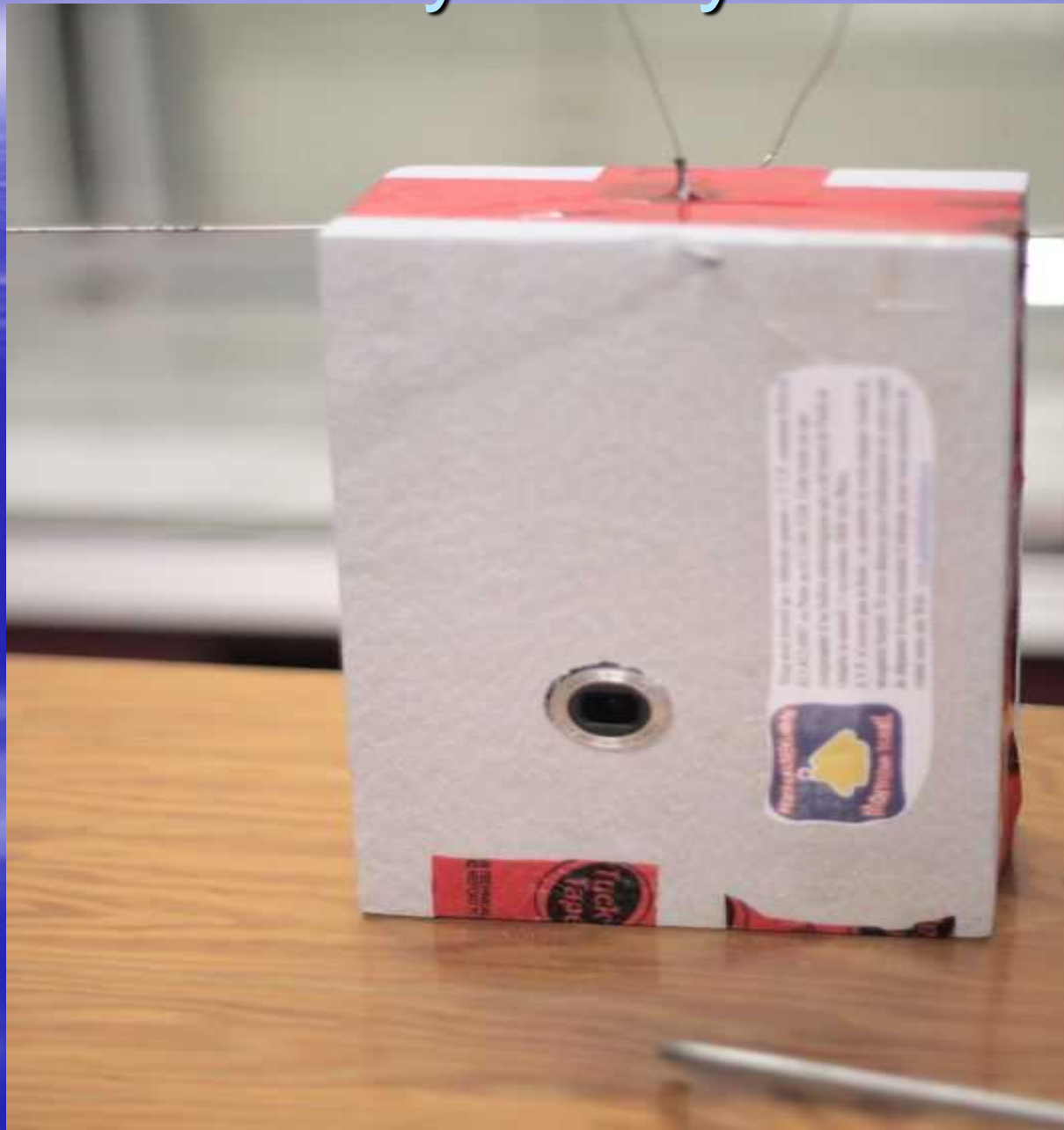
To Accommodate The Students To Fly and Recover A Project Object



Going For The Altitude Record



Ready To Fly



Launch Sites

- All Flights have been launched from Perth
- Two from The Perth Fair Grounds where inside fueling and mission control facilities were available
- One from The Perth Fire Hall
- Two From Downtown Heritage Perth
- Latest two flights were not open to the public due to the use of hydrogen
- All Flights had media coverage, local press, radio as well as CTV National.

Heritage Perth



VE3REX-11 November 7/09



VE3LCA-11 November 7/09



Mission Control Tracking



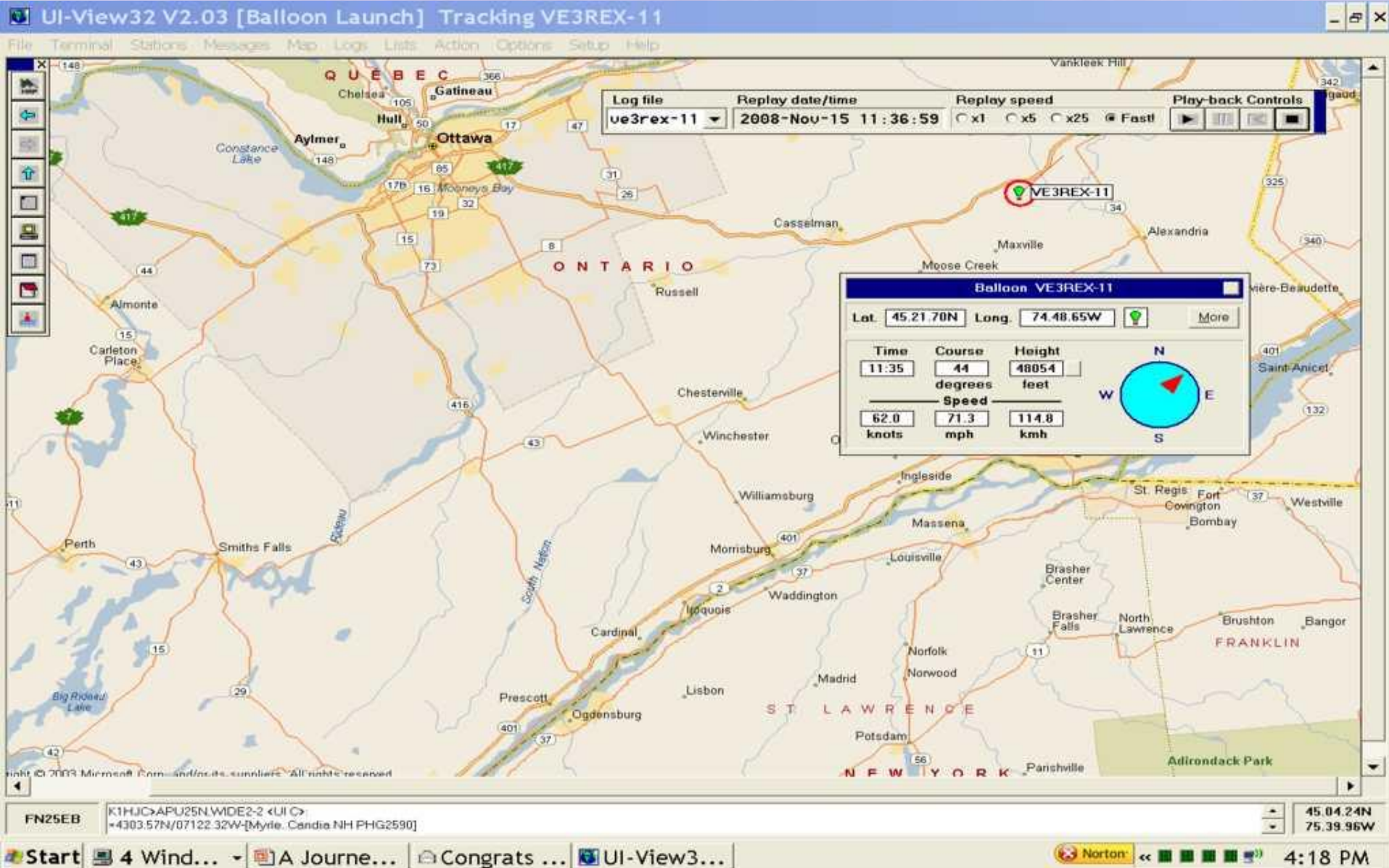
Communications



Chase Car Tracking



Radio Tracking Program



Flight Path

Location of VE3REX-11 - Google Maps APRS - Microsoft Internet Explorer

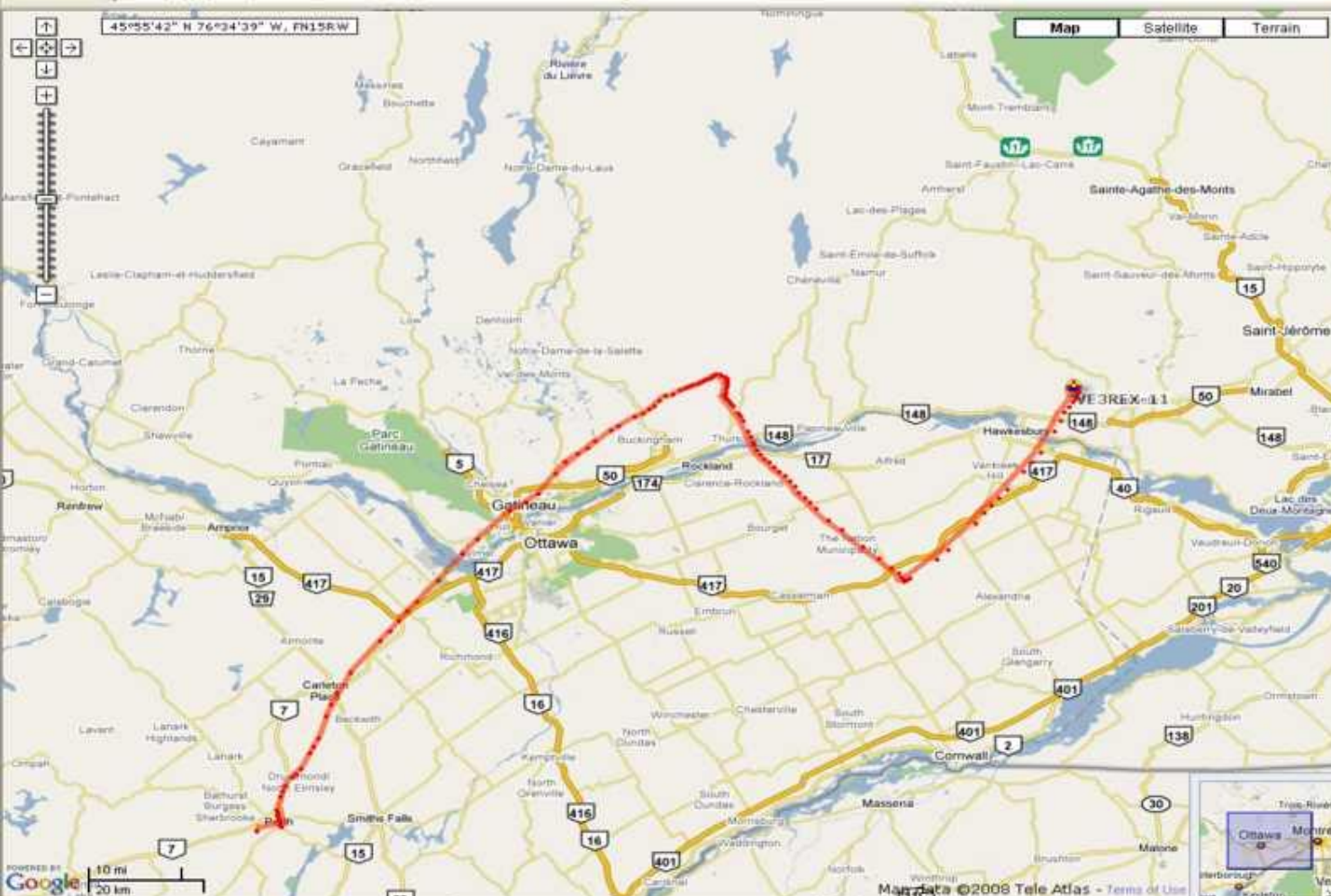
File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address <http://aprs.fi/?call=VE3REX-11&mt=m&z=11&timerange=86400> Go Links

45°55'42" N 76°34'39" W, FN15RW

Map Satellite Terrain



VE3REX-11

aprs.fi - VE3REX-11 - Log out

Show last: 24 hours

Track callsign: [Clear / Show all] VE3REX-11 Search

Address, city or Locator: [Clear] Search

VE3REX-11:
Updated: 2008-11-15 16:57:25z
Position: 45°41'17" N 74°28'50" W

Select a day (6 months history):
2008: 738 points

Other SSIDs: VE3REX-9
W: 0.7°C 70% 1007 mbar 1.1 m/s 8

Other views:

- Station info
- Raw packets
- Status packets - Beacon packets
- Messages - Bulletin board
- Prefix browsing
- Google Earth KML [?]
- Preferences

Information:

Blog - APRS stations currently moving - Database statistics - Linking to aprs.fi - AIS sites - Change log - Planned changes - Credits and thanks

idle

Make A Donation

Subscribe - 5 EUR/year

Subscribe - 10 EUR/year

Subscribe - 20 EUR/year

Done

Start 4 Wind... A Journe... Congrats ... Location...

Norton Internet

4:09 PM

Landing Site

Location of VE3REX-11 - Google Maps APRS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Search Favorites

Address <http://aprs.fi/?call=VE3REX-11&mt=m&z=11&timerange=86400> Go Links

45°42'42" N 74°26'21" W, FM2SSR

Map Satellite Terrain

Brownsburg-Chatham

Chemin De la Carrière

Montée Steen

Montée Clais

Montée Jacques

VE3REX-11

Map data ©2008 Tele Atlas - Terms of Use

aprs.fi - VE3BSB - Log out

Show last: 24 hours

Track callsign: [Clear / Show all]
VE3REX-11 Search [?]

Address, city or Locator: [Clear]
Search [?]

VE3REX-11:
Updated: 2008-11-15 16:57:25z
Position: 45°41'17" N 74°28'56" W

Select a day (6 months history):
2008: 738 points

Other SSIDs: VE3REX-9

Other views:

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idle

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Done Start 4 Wind... A Journe... Congrats ... Location... Norton Internet 4:06 PM

Tracking Last Few Meters



Recovery Maine



Recovery Team St. Jerome



Recovery Team Cornwall



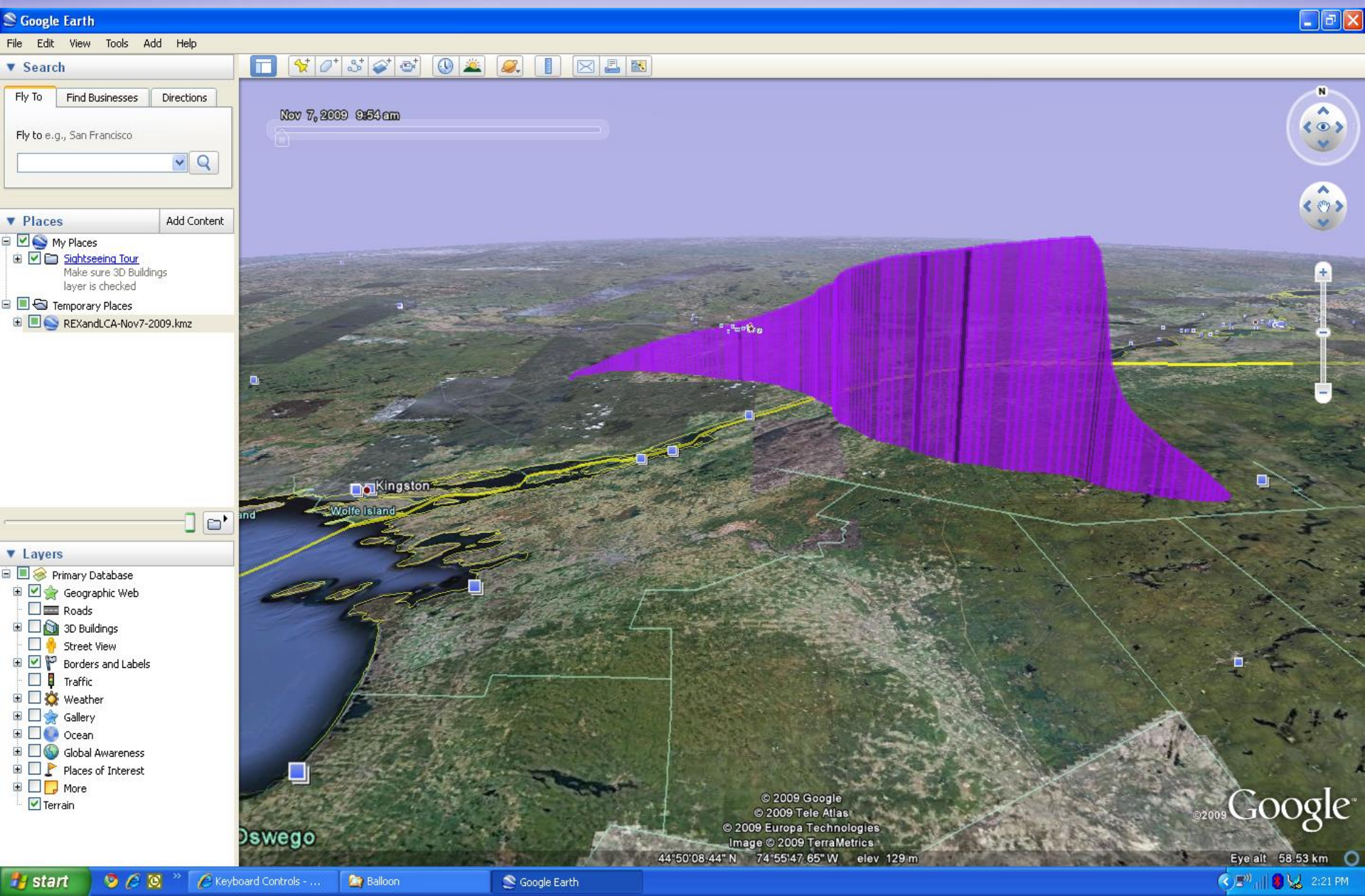
Van Gough Starry Nights



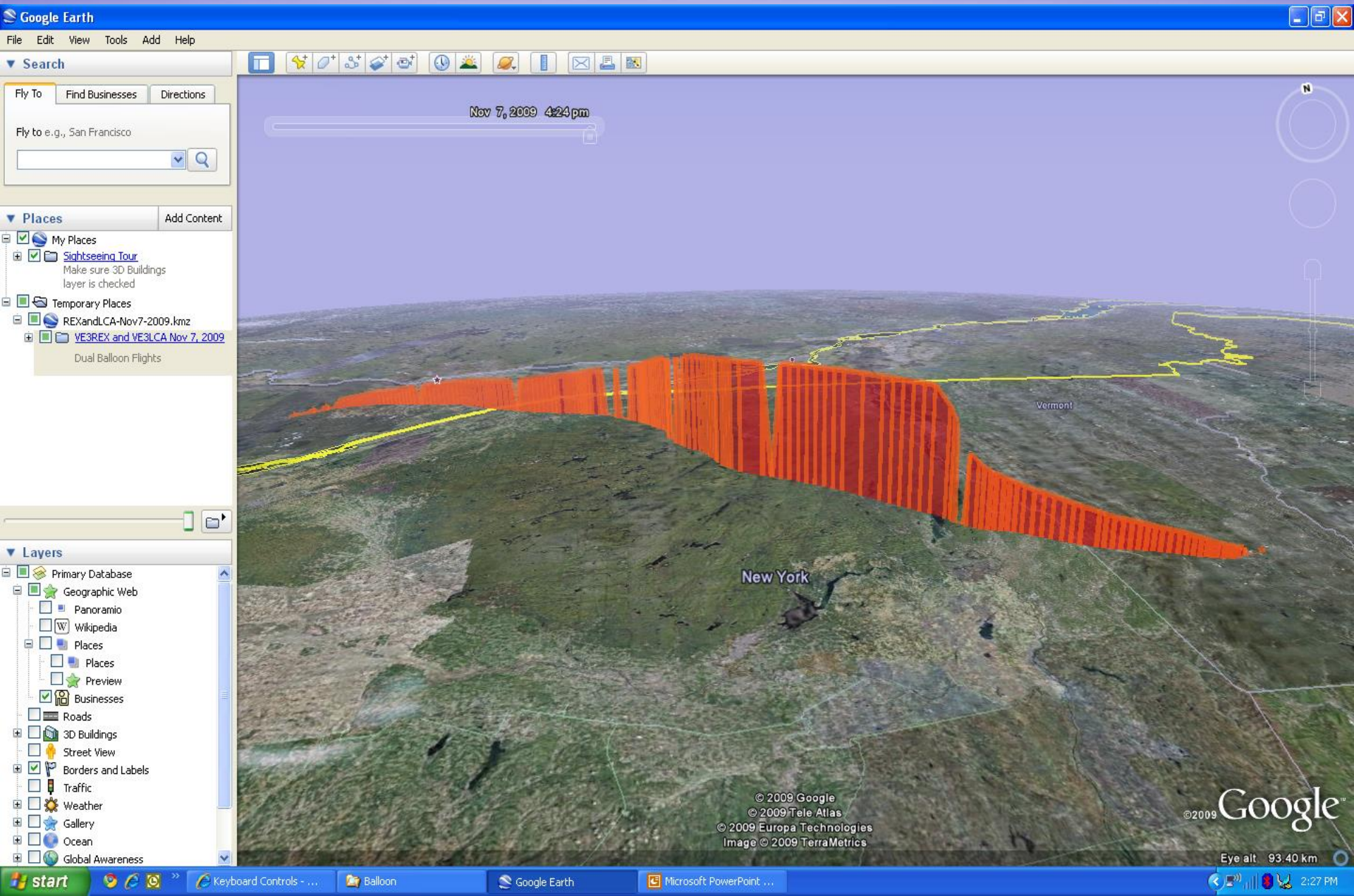
7 November 2009

- VE3REX-11 achieved an altitude of 127,933 feet and landed near Tupper Lake New York the flight package remains in a tree
- VE3LCA-11 was a smaller balloon and contained the camera
- VE3LCA -11 achieved an altitude of 110,311 feet, landing in a tree in Vermont
- K1XV mounted a recovery team and will meet in Tupper Lake tomorrow to handoff the flight package

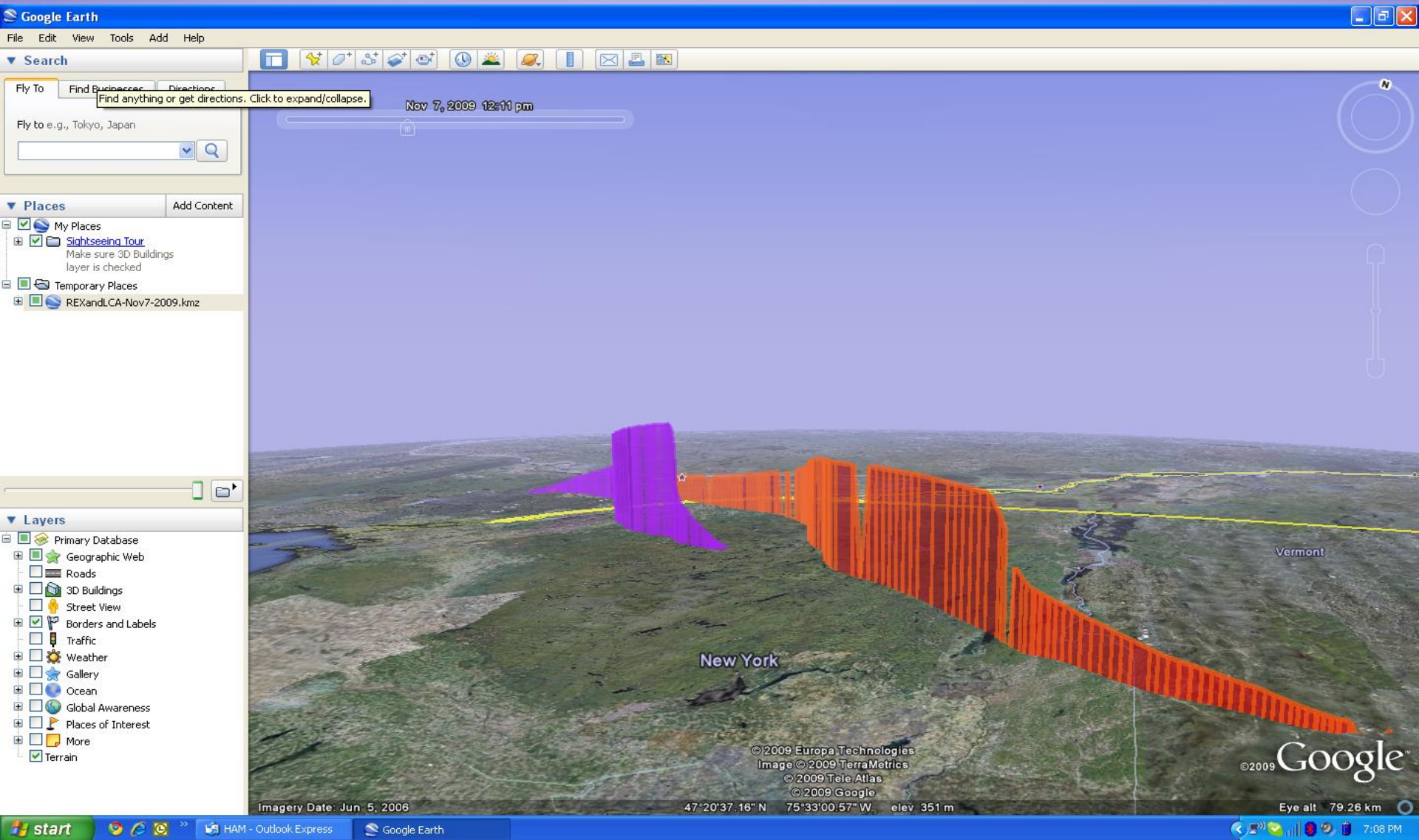
LASA 6 VE3LCA-11



LASA 7 VE3LCA-11



LASA 6 and 7



VE3LCA-11 Vermont



Tree Climber Recovery



W1AKV and Tree Climber



Formal USA Canada Handover



K1XV Ray Makul Vermont Recovery Team Leader



Certificates Of Appreciation

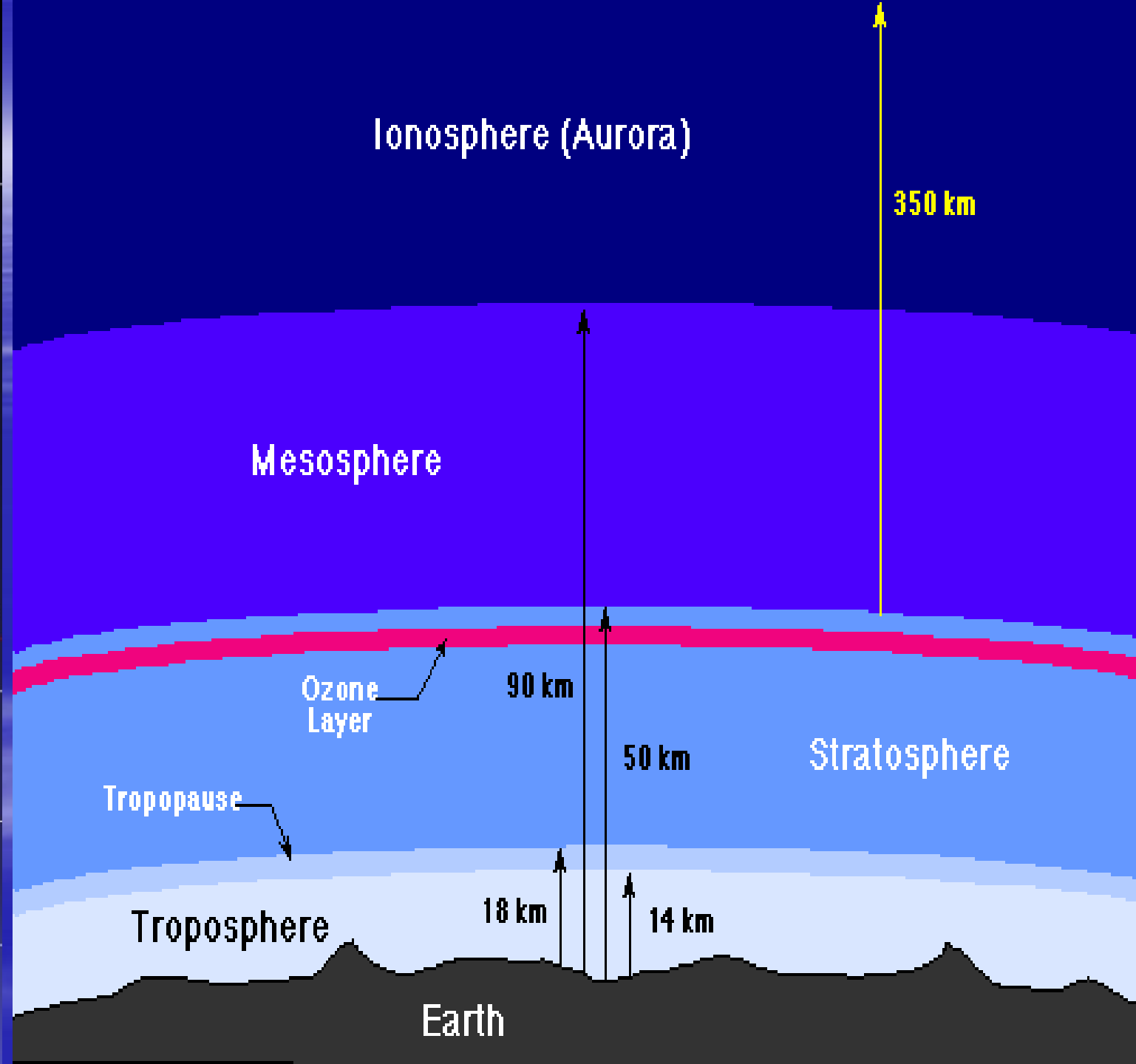


Perth at Liftoff

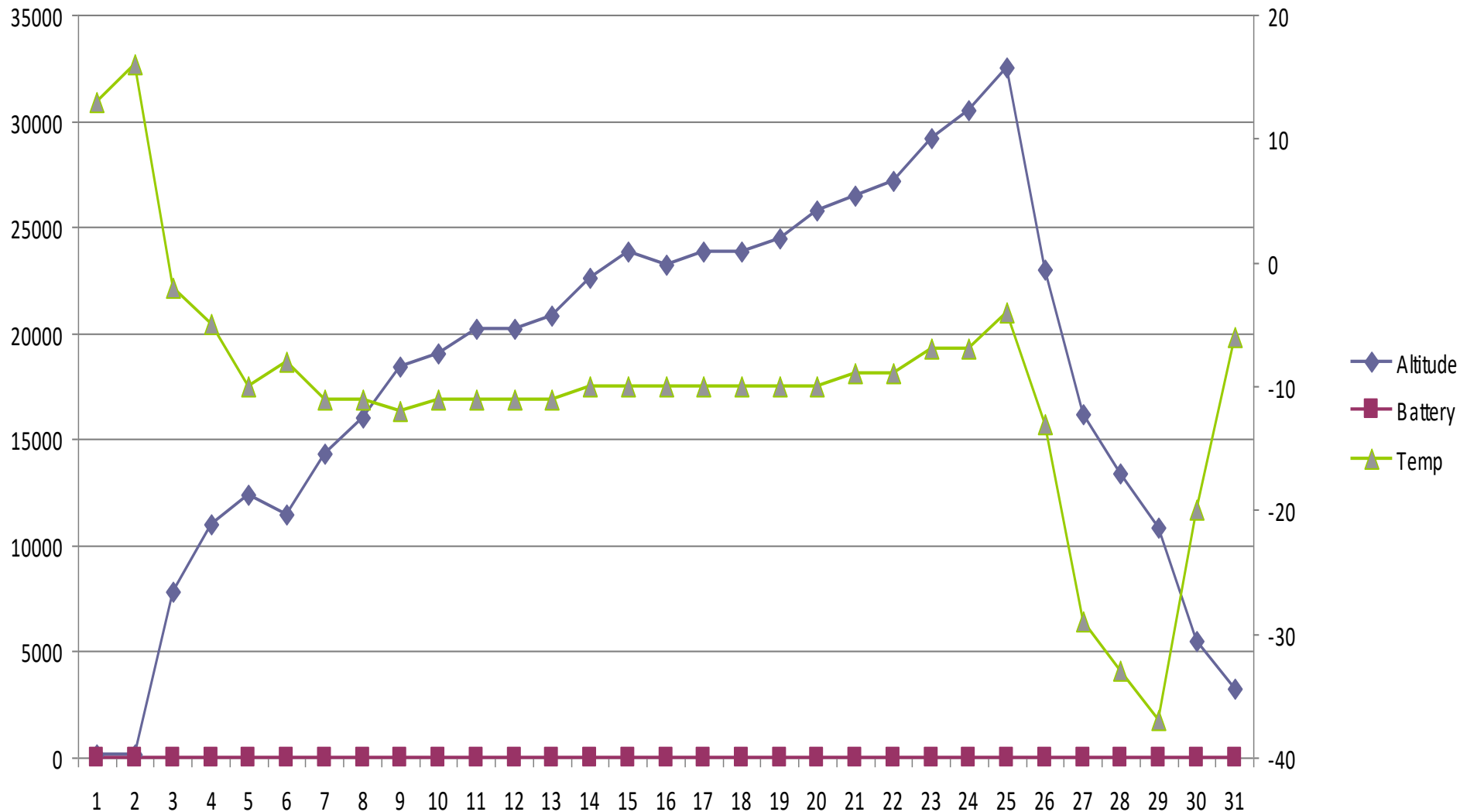


70,000 Feet



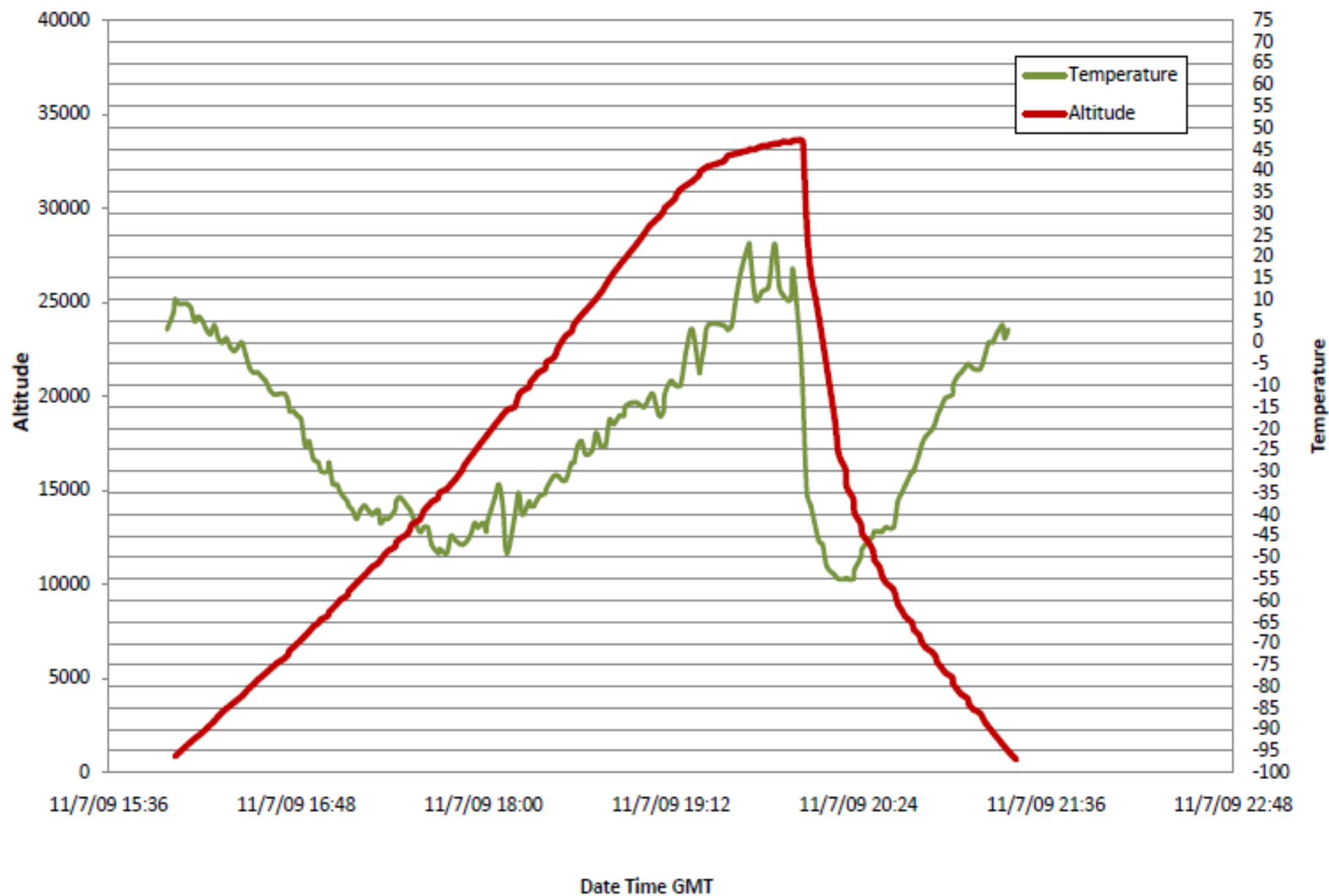


Telemetry From LASA 4



VE3LCA-11 November 7 2009

Altitude vs Temperature



Official Records

RANK	ALTITUDE	DATE	MISSION/PROGRAM
1	128,379	10-Jul-09	NS-22x (MdSGC/UMD)
Unofficial	127,933	7 November 09	LASA -6
2	125,449	20-May-08	PBH-7 (LM/Cornell U)
3	122,899	09-May-09	LASA-3
4	122,463	01-Aug-09	SOB-IX (AR1)
5	122,283	09-May-09	LASA-4
6	121,793	55Sep09	L-100-D
7	120,522	20-Mar-99	Norm Kjome (KB7ZJT)
8	118,946	27-Dec-04	TVNSP-TV04G
9	118,647	26-Dec-04	HiBall-3 (WB8ELK)
10	118,352	14-Jul-05	ISU/HABET L-93
11	118,011	22-Apr-06	WV-4
	117,597	11-Aug-07	SABLE-III

Tracking Equipment

- APRS transmissions and reception on 144.390
- Byonics microtracker 1 watt in flight 6 watts on landing
- Argent Data Systems Open Tracker 250 Miliwatts
- Uiview software at mission control and in chase cars
- Aprs.fi for internet available to non amateurs

Flight Call Signs

- Call signs registered to the Lanark North Leeds ARES Group
- VE3REX-11 for 4 Flights
- Written up by VA3ROM as the Flight Of The King
- VE3LCA-11 for the St. Johns Elementary School Flight and The flight to Vermont

Involving The Schools



How Could We Get A Camera To The Edge Of Space

Take Some Pictures
Bring Them Back
And
Set A World Record

Thank You For Your Interest

