

Flight Announcement ANSR-125 @ The PRESCOTT HAMFEST at ERAU

Arizona Near Space Research (ANSR) is pleased to announce the flight of ANSR-125. This high altitude balloon flight will take place on Saturday, June 1st, 2019 at 9:00 A.M. The launch site will be at Embry-Riddle Aeronautical University in conjunction with the 2019 Prescott Hamfest and the 2019 ARRL Arizona State Convention, Winds Permitting. If we require a remote launch location we will try to stream the Launch to the Hamfest and on You Tube.

The balloon will be a 2000-gram weather balloon, filled with helium. The expected burst altitude will be 90,000 feet or more. The flight is anticipated to last about 2.5 hours from launch to touchdown.

This flight will be a hamfest demonstration flight for a streaming video payload and tracking beacons. A ground station will display live television from the payloads during the flight. We will also be streaming the flight to the ANSR YouTube channel live if possible

APRS Beacons will transmit position information on 144.34 MHz and 445.925 MHz as KA7NSR with a dash number. The balloon will carry a backup CW beacon and a Mode C Transponder as well. Call signs and SSIDs will be published closer to the flight day. Our mobile cross band Digipeater will locally repeat the beacons' APRS data to the 144.390 MHz standard APRS frequency and subsequently will be I-GATED to the Internet for out-of-area trackers. You can track the flight using the links listed below: We will also be flying our crossband repeater, see frequencies below, and invite anyone in range to work the balloon when ANSR chase crews are not using the frequency.

Be sure to check <http://ansr.org> and <http://groups.yahoo.com/group/Ballooning> for updates to this announcement prior to the flight.

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Here is the tentative Manifest for this flight:

Balloon 1	Flight Manifest	lbs	kg
Parachute, cord, clips	Hardware	3.00	1.36
KA7NSR-6	144.34	0.50	0.23
ANSR camera		0.50	0.23
Streaming Video Box		3.80	1.73
KA7NSR-7	445.925	0.80	0.36
Crossband Repeater	145.56 (162.2), 445.525	1.00	0.45
Transponder	Mode C Code 4453	3.30	1.50
Total		12.90	5.86
Overfill factor		1.20	0.55
Fill total		15.48	7.04
Balloon		4.40	2.00
Fill adapter		0.48	0.22

Links to APRS tracking via APRS.fi

<http://aprs.fi/ka7nsr-6>

<http://aprs.fi/ka7nsr-7>

ANSR Crossband info

Input: **146.560 PL tone 162.2**

Output: **445.525**

Chase teams will use the **145.560** simplex for close communications and

The: Mingus Mt Repeater as backup **147.22 (+) 162.2PL VVARA**