



ARES Meeting Agenda - 11/16/22

- Welcome to Guests
- PAWS Event Review
- Infrastructure Activities
- Training Documentation
- Economy Windows Computer for all Hams
- Position Reports in Winlink
- Winterheat is Coming
- New Nearby Winlink VHF RMS Gateway
- Weather Spotter Training in 2023
- Introduction to Fritz Bock Memorial Balloon Launch
- ARES Net Reminders



Welcome to any Guests

- Thanks for joining us tonight
- ARES - Amateur Radio Emergency Service
- For those new to ARES, we do 3 major things:
 - Severe Weather – Storm Spotting
 - Communications Support for Community Events
 - Emergency Communications for Served Agencies
- Major Tools that we utilize:
 - Ham Radios, typically VHF and/or HF gear
 - Winlink Express software for over-the-air email messages
 - Internet Email and text messaging for inter-team communications
- Training – much more to ARES than holding a mic and talking



PAWS-Toberfest – 5K Run/Walk

- Was held Saturday, October 22
- At Junction City Shopping Center in Peoria
- Thanks to all who came out for this event
- Any post event thoughts to share?



Infrastructure Activities

- VHF Station at the Bunker
 - Computer is back in service
 - Beta Test of VHF Winlink Peer-to-Peer has resumed
- HF Station at the Bunker
 - Erected & Repositioned End Fed NVIS to test transmit
 - Yaesu FT-950 Radio works on Receive & Transmit
 - Next - install computer and soundcard for HF Winlink
- Peoria Red Cross
 - Need to test all radios and periodically exercise
 - Computers there need to be updated



Training Documentation

- I sent an email on 06/15 & on 09/25 with a form to be completed showing your training completion dates
- I have received and tabulated 9 forms
- FEMA Course dates should be in your email or on your certificates - Guessing at other dates is OK
- Does not matter which letter version of IS Courses you completed
- It is OK to simply report that you have nothing yet completed, as some folks are just starting out
- Some folks only want to do Level 1 items, that is fine for weather spotting and community service events

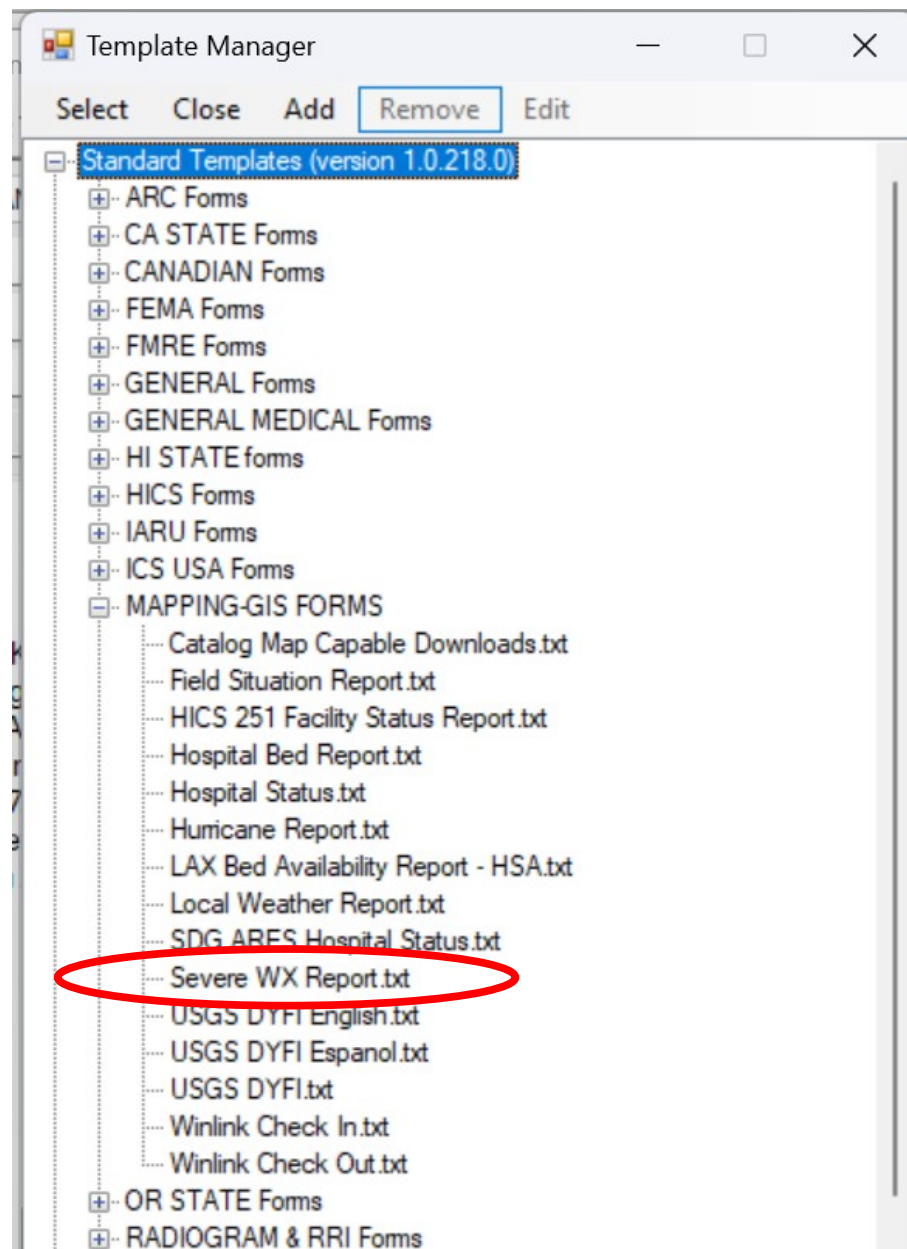


Economy Computer for Everything

- I spoke about this at our last meeting
- Great for Ham Radio Use – in the shack and field
 - Runs Winlink, Ham Radio Deluxe, and much more!
- Also use for your general computing needs
- Evolve III Maestro Laptop with Windows 10
- Has a 12 volt battery – charge directly from 12V
- Out of Stock at Micro Center in Chicago/St. Louis
- Still on Amazon for \$95 to \$141 – multiple specs
- Chose carefully to get the features you want



Templates with Position Data





Severe WX Template

SEVERE WEATHER REPORT			
<div>Load Severe WX Data</div>			
Sender <input type="text" value="KD9ANU"/>			
Report Date/Time (local) <input type="text" value="2022-11-14 22:00:22"/>		Report Version (Select one): <input checked="" type="radio"/> First Report <input type="radio"/> Update Report <input type="radio"/> Final Report	
Reporting Party Name <input type="text"/>			
Reporting Party Phone Number <input type="text"/>			
Reporting Party Email Address <input type="text"/>			
EVENT AREA			
City <input type="text"/>		State/Province/Region <input type="text"/>	
County <input type="text"/>		Other <input type="text"/>	
Latitude and longitude: LAT <input type="text" value="40.979167"/> LON <input type="text" value="-90.125000"/> MGRS <input type="text" value="15TYF4188240425"/> Grid <input type="text" value="EN40wx"/>			
<i>LAT/LON and MGRS default to the center of the grid square listed in Express Settings, unless a GPS is used or Lat/LON or MGRS are entered manually.</i>			
<i>If sending report for someone else, do not use your GPS Lat/Lon, obtain theirs if available and manually enter in decimal format.</i>			



Winterheat 2023 is Coming

- WINTERHEAT is a month long amateur radio **SIMPLEX** event
- Make as many contacts as possible over a month long time period using only designated simplex frequencies – repeat daily
- Runs January 2023 – 1st thru the 31st
- Primarily 2M & 70cm, also DMR, C4FM, D-Star
- Sign-up is now open; do it before January 1st
- Check out & sign up at: <https://hamactive.com>
- Several from our ARES group had fun last year



Winterheat 2023 is Coming



OPERATING FREQUENCIES		
ANALOG		
2M	70cm	OTHER
147.570 IL2-Charlie	446.700 ILUHF-Charlie	52.540 6M-Xray
147.525 IL2-Bravo	446.400 ILUHF-Bravo	223.400 1.25M-Xray
		927.100 33cm-XRay
DIGITAL		
147.555 C4FM-V	446.600 C4FM-U	
145.790 DMR-V TG:99 TS:1 CC:1	446.0750 DMR-U TG:99 TS:1 CC:1	
145.670 D-STAR-V	446.225 D-STAR-U	



New Winlink VHF RMS Gateway

- The former WD9FMB-1 digipeater in Mason County now is a VHF RMS Gateway known as W9PFD-10.
- The digipeater Alias is "Fritz", also digipeats as W9PFD-1.





Weather Spotter Training 2023

- NWS-Lincoln will be providing in-person Weather Spotter Training in the Spring of 2023.
- SAVE-THE-DATE for Monday March 20, 2023
- Peoria Co. EMA plans to host NWS staff for weather spotter training
- They have yet to firm up a time or location, but expect this will be held in the evening



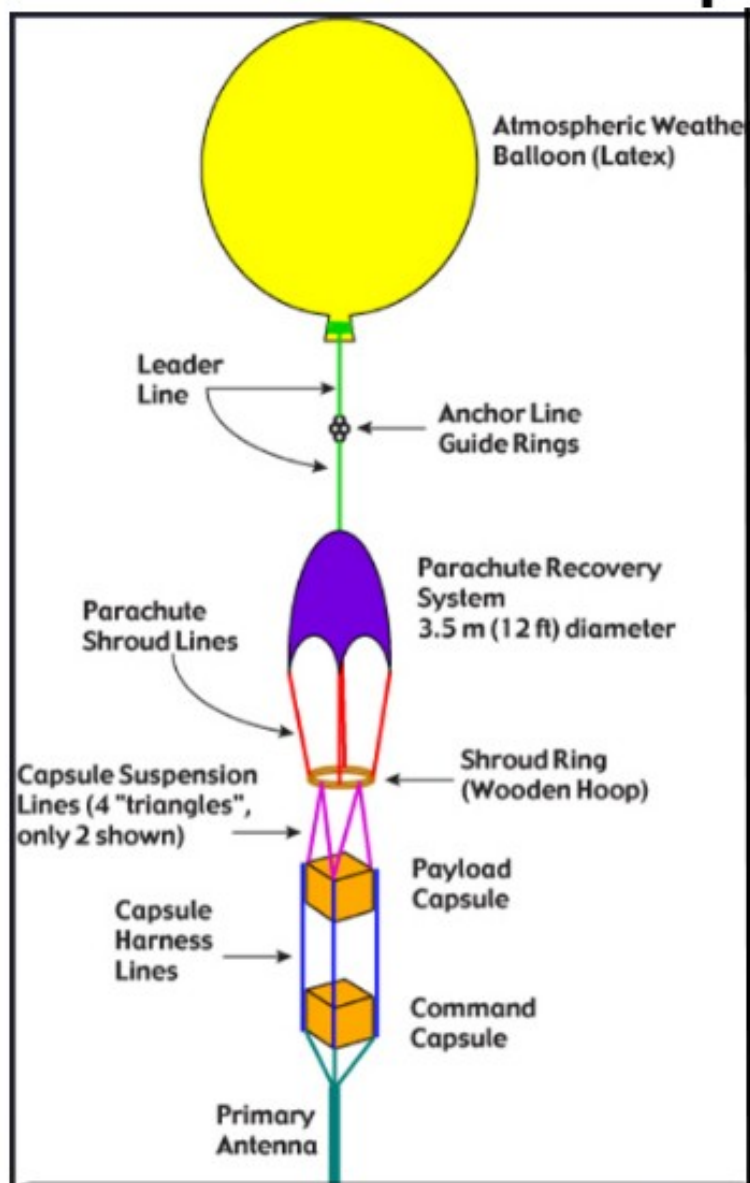
Fritz Bock Memorial Launch

- Fritz Bock was a ham radio operator who left us Oct 28, 2019
- He was a friend, teacher, and mentor to many of us
- Fritz used High Altitude Balloon Launches as tools to get kids interested in science, technology, engineering, and math (STEM)





Major Balloon Components

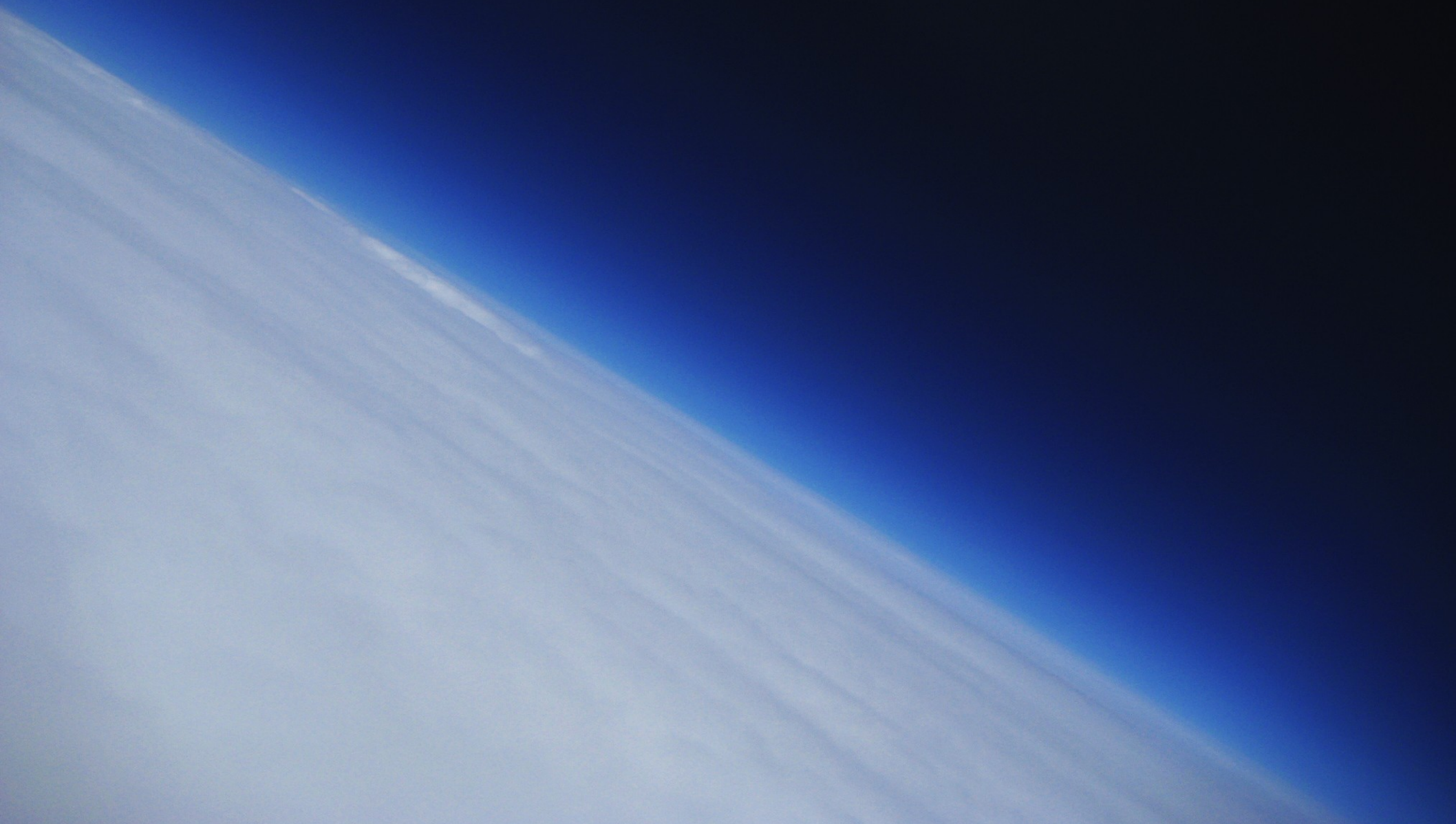


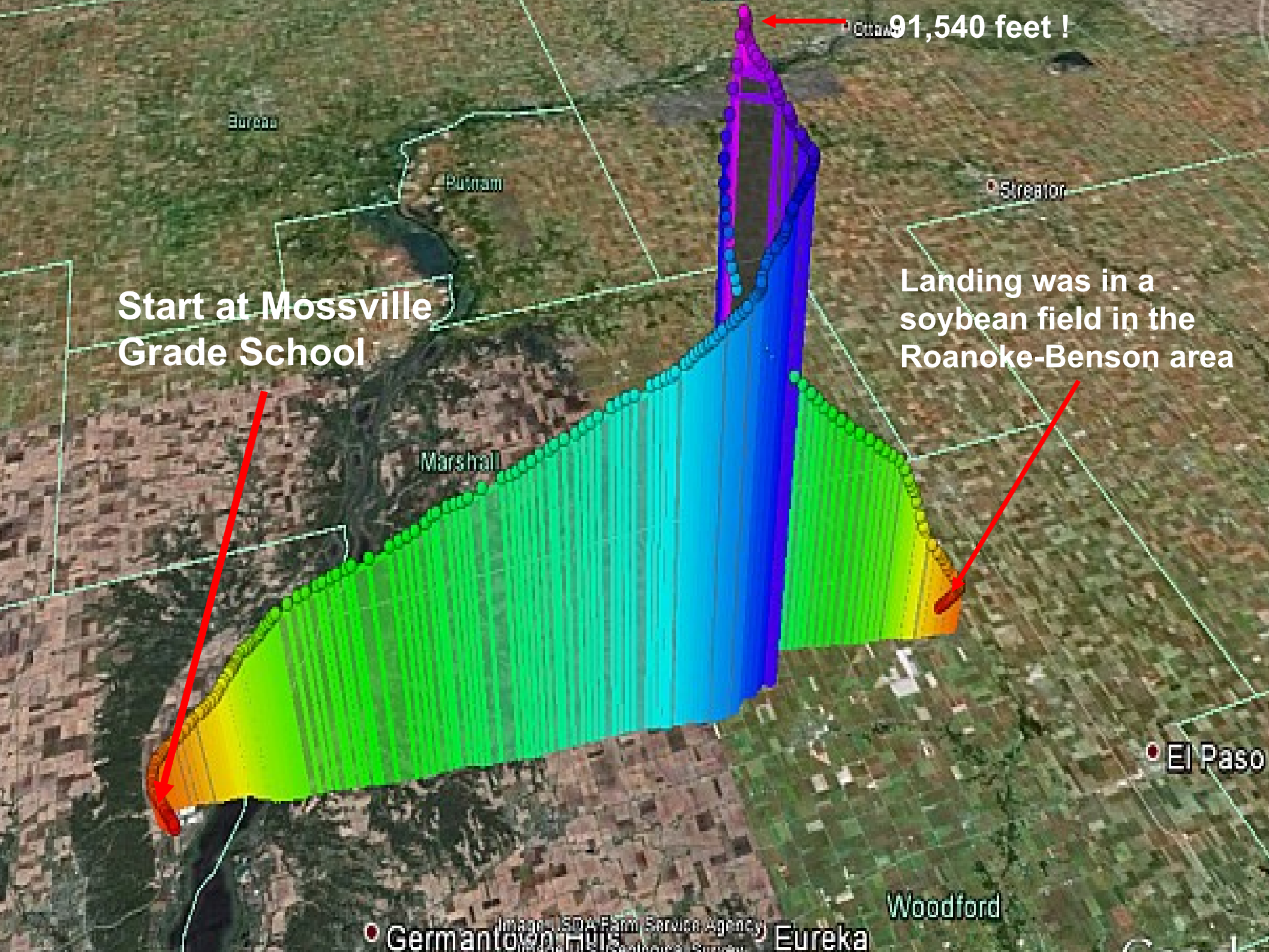
Balloon Launches

- Fritz Led Numerous Launches
 - Launched from various points around Peoria
 - Achieved 100,000 feet on Sept, 2015 flight
 - Tracked the balloon using Amateur Radio, Automatic Packet Reporting System
 - Telemetry sent in real time
 - Carried On-board Cameras and Science Experiments

Peoria Near Space Prob

A view from about 95,000 feet !





91,540 feet !

Start at Mossville Grade School

Landing was in a soybean field in the Roanoke-Benson area

Bureau

Putnam

Streater

Marshall

El Paso

Woodford

Germantown Hills

Eureka

Image: USDA Farm Service Agency
Map Data: © 2013 Google Earth



Fritz Bock Memorial Launch

- Beginning to plan a Memorial Launch for Spring of 2023
- Launch Date and Time is to-be-determined
- Launch Site is to-be-determined
- Expect to use regular Zoom meetings for planning (evenings)
- Build meetings will be face-to-face (at Red Cross or in homes)
- No STEM component with kids is planned for this launch
- If you want to help plan/build, sign up with name and email
- We need to obtain most of the parts and radio equipment
- Sign up later for helping with launch and recovery teams



Some Things Needed

- 2 TinyTrak Controllers for APRS tracking (Byonics)
- 2 HT's compatible with the TinyTrak Controllers
- 3 GoPro Cameras (or similar)
- Rig Runner Power Distribution
- LiFePO4 Batteries
- Probably more stuff later



People Needed

- Payload Designer
- Tracking/APRS Expert
- Photography Expert
- Power System Expert
- Flight Path Analyst
- Publicity Coordinator
- Might work as Teams rather than single experts



Questions?



ARES Net Reminders

- Illinois State ARES HF Net
 - 1st and 3rd Sundays of month at 4:30 PM CST
 - 3.905 MHz LSB (alternate 7.230 MHz LSB) & Echolink 824404
 - Informal 60M & 40M check in - (7230 KHz) at 4:10 PM
 - 60M check at 4:20 pm (5403.5 kHz Channel 5, if busy then 1, 2, 3, 4)
- Illinois Digital Net every Wednesday 8:00 PM on Illinois Link
 - WIRES X 21565
 - Brandmeister DMR 31171
 - TGIF DMR 31171, DMR+ Reflector 4636
 - NXDN 3117
 - P25 31171
 - YSF Reflector Illinois Link 83132
 - D-Star XLX 334G, DCS 334G, XRF 334G, and XLX 312G
 - Allstar Link 42810



END

- www.peoriacountyares.org
 - ilares.org
 - www.arrl.org/ares