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## News

[August 2021 newsletter](/newsaug2021.html) (</newsaug2021.html>)  
[July 2020 newsletter](/newsjul2020.html) (</newsjul2020.html>)  
[2019 archive](/news2019.html) (</news2019.html>)  
[2018 archive](/news2018.html) (</news2018.html>)  
[2017 archive](/news2017.html) (</news2017.html>)  
[2016 archive](/news2016.html) (</news2016.html>)

## Kits

QMX multi-band transceiver kit (</qmx.html>)  
QCX-mini 5W CW transceiver kit (</qcxmini.html>)  
QCX+ 5W CW transceiver kit (</qcxp.html>)  
QDX Digital Transceiver (</qdx.html>)  
QDX-M 5W Digital Transceiver (</qdxm.html>)  
Ultimate3/3S QRSS/WSPR kit (</ultimate3.html>)  
U4B - Balloon tracker (</u4b.html>)  
50W Amp for QCX (</50wpa.html>)  
Ultimate relay-switched LPF kit (</ultimatelpf.html>)  
GPS receiver kit QLG2 (</qlg2.html>)  
10W HF Linear PA (</linear.html>)  
Low Pass Filter (</lpfkit.html>)  
Band Pass Filter (</bpkit.html>)  
Si5351A synthesizer (</synth.html>)  
Si5351A VFO/SigGen (</vfo.html>)  
ProgRock2 triple programmable crystal (</progrock2.html>)  
50-ohm 20W dummy load (</dummy.html>)  
Receiver module (</receiver.html>)  
Polyphase network (</polyphase.html>)  
Clock (</clockn.html>)  
Arduino shield (</uarduino.html>)  
QCX-series AGC module (</agc.html>)

## APRS trackers

LightAPRS tracker (</lightaprs.html>)  
LightAPRS 2.0 tracker (</lightaprs2.html>)  
LightAPRS-W (+WSPR) tracker (</lightaprs-w.html>)  
LightAPRS-W 2.0 (+WSPR) tracker (</lightaprsw2.html>)

## Enclosures

Ultimate3/3S case (</u3box.html>)  
VFO/SigGen case (</vfobox.html>)

Clock case (/clockbox.html)  
Custom case (/custombox.html)  
Blank case (/box.html)  
QCX enclosure (/qcxcase.html)  
50W Amp enclosure (/50wpabox.html)

## Coming Soon

QSX all-band all-mode transceiver (/qsx.html)

## Retired kits

5W HF PA kit (/pa.html)  
QCX 5W CW transceiver kit (/qcx.html)  
OCXO/Si5351A synthesizer (/ocxokit.html)  
ProgRock - triple programmable crystal (/progrock.html)  
GPS receiver kit QLG2-SE (/qlg2se.html)  
GPS receiver kit QLG1 (/qlg1.html)  
GPS Module SKM61 (/skm61.html)  
GPS Module SKM52 (/ultimategps2.html)  
GPS Module VK16E (/ultimategps.html)  
QRSS Arduino shield (/qrssarduino.html)  
Ultimate2 QRSS kit (/ultimate2.html)  
Ultimate QRSS kit (/qrsskitmm.html)  
30/40/80/160m QRSS TX kit (/qrsskit.html)

## High Altitude Balloons

The Circumnavigators (/circumnavigators.html)  
Tracking (/tracking.html)  
Flights (/flights.html)

## Ocean Tracking

Fleet II transatlantic sailboat crossing (/fleetii.html)  
C3 (/c3.html)  
MyDream (/mydream.html)

## Misc. Info.

App Notes (/appnotes.html)  
Discussion group (/group.html)  
QCX Challenge (/party.html)  
QCX WARC Party (/qcxwarc.html)  
Shipping information (/shipping.html)  
Beware imitations! (/imitations.html)  
QCX - uSDX... Clones? (/usdx.html)  
FAQ (/faq.html)  
Links (/links.html)  
Bank transfer (/bank.html)  
3-D printed enclosures (<https://www.thingiverse.com/search?q=qrp+labs&type=things&sort=relevant>)  
Contact (<http://qrp-labs.com/support>)  
Support (<http://qrp-labs.com/support>)

## The Circumnavigators

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**Details**

- 📅 Created: 19 July 2016
- 🕒 Last Updated: 03 February 2017
- 👁️ Hits: 132697

**Note: Many thanks to Ralph W0RPK for all the work on tracking these circumnavigating amateur radio balloon flights and providing updates to this page. As of the end of 2016, there were still several balloons in the air on multiple laps. The number of long duration balloon projects is increasing all the time. The workload on Ralph became too much. Therefore we have taken the decision not to continue to update this page. Now that the skills and experience has increased and the flights are more common, it is not practical (and perhaps not so useful to readers) to continue to update it ever more frequently! The page remains a testimonial to the pioneering work of the early circumnavigation balloon constructors and operators!**

This article documents the amazing achievements of radio amateurs flying small "floater" balloons around the world. A circumnavigation is a complete trip around the world, passing the starting longitude. If the following list of flights is complete or inaccurate please email us! (/contact). This list was compiled by Ralph Wallio W0RPK (<http://showcase.netins.net/web/wallio/>) who wrote this article for the QRP Labs website. (NOTE: The pictures are scaled to suit this article format. Please click each map picture for the full-size version).

## Introduction by Ralph Wallio W0RPK

My introduction to what came to be known as Amateur Radio High Altitude Ballooning, ARHAB, was from Bill Brown, WB8ELK, and his high altitude ballooning presentation to the 1989 AMSAT Annual Meeting and Space Symposium (hosted by the Central Iowa Technical Society, CITS, in Des Moines, Iowa). Continuing to consider what Bill presented, in 1993 I attended a high altitude ballooning seminar in Denver hosted by EOSS, Edge of Space Sciences, <http://www.eoss.org/> (<http://www.eoss.org/>).

CITS then flew four HABET flights (High Altitude Balloon Experiments in Technology) later in 1993 and during 1994. Then HABET, with the assistance of the Iowa Aerospace Education Council, was moved to Iowa State University in 1995 with funding from the Iowa Space Grant Consortium. HABET continues today in the Aerospace Engineering Department (<https://sites.google.com/site/cyhabet/about-us/history> (<https://sites.google.com/site/cyhabet/about-us/history>)).

A few years later, while hosting and maintaining ARHAB web pages, an unintended floater captured my attention. On January 8, 2000 Pete Sias, WB0DRL, launched a Sky Science Over Kansas (SSOK) high altitude balloon mission from Salina, Kansas. See <http://showcase.netins.net/web/wallio/SSOK.html> (<http://showcase.netins.net/web/wallio/SSOK.html>) for the result when Pete's latex balloon refused to burst creating a 700-mile track.

Today, 16-years later, I continue to closely follow and kibitz about floating ARHAB flights. There are several Hams applying ingenious balloon lift, payload weight and telemetry schemes with increasing flight times and track lengths. Collective improvements in state-of-the-art has resulted in multiple circumnavigating flights (in date-of-launch order):

Callsign	Flight	Date	Comments
MOXER	B-63	08-Jul-2014	
MOXER	B-64	12-Jul-2014	8 circumnavigations
MOXER	B-66	15-Jul-2014	3 circumnavigations
K6RPT	CNSP-21	25-Jan-2015	
VK3YT	PS-41	05-Apr-2015	
K6RPT	CNSP-24	12-Apr-2015	
VK3YT	PS-46	22-May-2015	2 circumnavigations
M0SBU	UBSEDS15	30-Apr-2016	Also used callsign AD6AM
K6RPT	CNSP-29	13-Jun-2016	3 circumnavigations
VE3KCL	S-11	14-Jun-2016	<b>First QRP Labs powered balloon circumnavigation!</b>
M0SBU	UBSEDS18	17-Aug-2016	5 circumnavigations; also uses callsign AD6AM-12
W7QO	HIFR(W)-3	22-Aug-2016	3 circumnavigations
K6RPT	CNSP-30	25-Aug-2016	3 circumnavigations
W7QO	HIFR(W)-5	08-Sep-2016	2 circumnavigations
W7QO	HIFR(W)-6	20-Sep-2016	6 circumnavigations

VE3KCL	S-18	07-Oct-2016	<b>Second QRP Labs powered balloon circumnavigation!</b>
KD2EAT	Wisp1c_12	19-Oct-2016	Landed in FN44be after completing circumnavigation lap
WB8ELK	WB8ELK-2	17-Nov-2016	3 circumnavigations
M0SBU	UBSEDS21	11-Dec-2016	Also uses callsign AD6AM-13

Following is a compilation of all known circumnavigating ARHAB flights which includes information contained in flight web pages and in telemetry archives (principally <http://habitat.habhub.org/> (<http://habitat.habhub.org/>) and then <http://habitat.habhub.org/ept/> (<http://habitat.habhub.org/ept/>)). Flights are listed in chronological order of launch dates. Please see given web pages for much more information including payload details.

de Ralph Wallio W0RPK

<http://showcase.netins.net/web/wallio/> (<http://showcase.netins.net/web/wallio/>)

## MOXER B-63

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT
B-63	08Jul14/06:53z/52.0958/-1.0214	06Aug14/04:57z/42.3912/-1.0149	13200m	29-
days				
<b>MOXER-3</b>				
Contestia 64/1000 434.500MHz USB 2m APRS on regional frequencies				
10mW transmitter		10Aug14/08:05z/37.4862/126.9668/12700m (Korea)		

<http://leobodnar.com/balloons/B-63/index.html> (<http://leobodnar.com/balloons/B-63/index.html>)



circumnavigators/b63.gif)

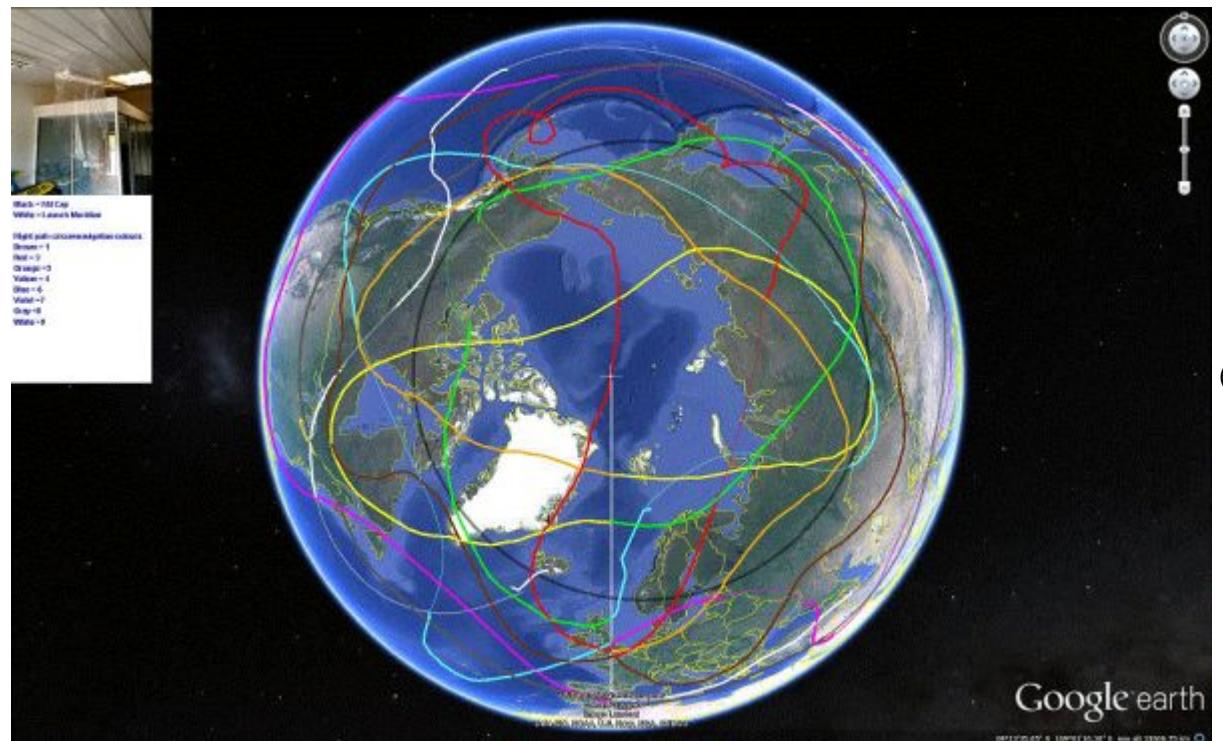
## MOXER B-64

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT

<b>B-64</b>	12Jul14/06:59z/52.0958/-1.0214	[#1] 31Jul14/16:27z/50.6904/-1.0193	12600m	19-
days				
<b>MOXER-4</b>		[#2] 22Aug14/20:18z/52.0446/-1.0407	12200m	22-
days				
Contestia 64/1000 434.500MHz USB		[#3] 07Sep14/16:00z/78.2631/-1.0025	11800m	16-
days				
2m APRS on regional frequencies		[#4] 20Sep14/16:00z/72.2628/-1.2322	11900m	13-
days				
10mW transmitter		[#5] 05Oct14/03:01z/58.1278/-1.0253	12200m	15-
days				
		[#6] 19Oct14/08:55z/53.5544/-0.9827	12500m	14-
days				
		[#7] 03Nov14/16:39z/37.9819/-1.0237	12700m	15-
days				
		[#8] 12Nov14/12:55z/39.6753/-1.0455	12700m	9-
days				

**LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT**

23Nov14/16:34z/64.1198/-19.0706/12400m (Iceland)

<http://leobodnar.com/balloons/B-64/index.html> (<http://leobodnar.com/balloons/B-64/index.html>)

circumnavigators/b64.gif)

**MOXER B-66**

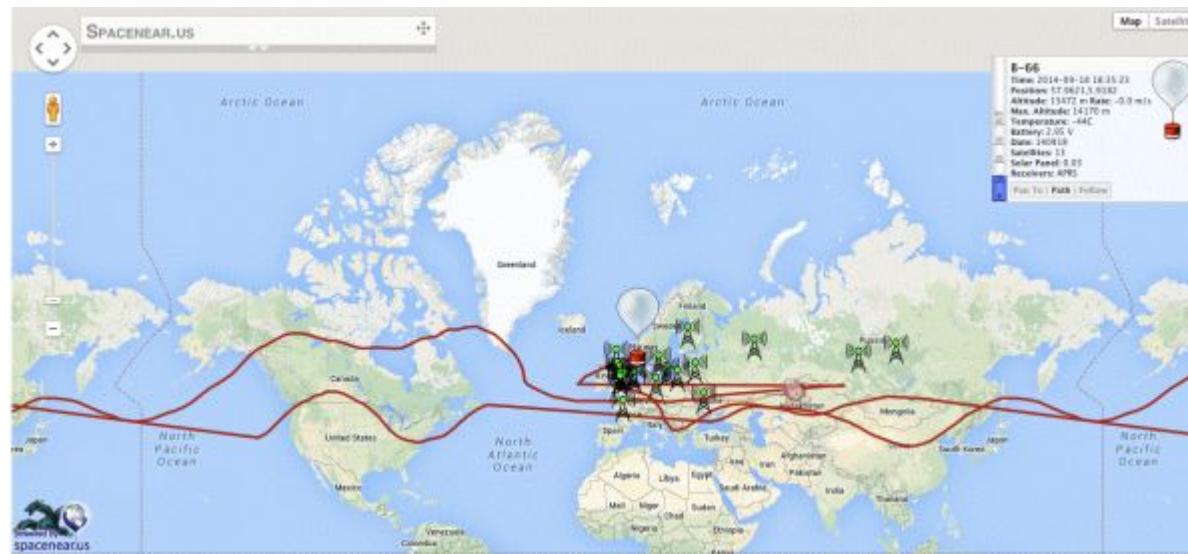
FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT

<b>B-66</b>	15Jul14/14:17z/52.0958/-1.0214	[#1] ~09Aug14/unk/unk/unk	13500m	~25-
days				
<b>M0XER-6</b>		[#2] 25Aug14/21:15z/49.4061/-1.0121	13400m	~16-
days				
Contestia 64/1000	434.500MHz USB	[#3] ~08Sep14/unk/unk/unk	13500m	~14-
days				
2m APRS on regional frequencies				
10mW transmitter				

**LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT**-----  
18Sep14/18:35z/57.9621/5.9182/13400m (Norway)

"Most of the last lap data is missing due to failing battery. B-66 stopped transmitting over Russia and appeared again over Atlantic near Ireland having traveled East. The track maps show this segment replaced with shortest path which might look confusing as it is "on the other side of the world." [de Leo M0XER]

<http://leobodnar.com/balloons/B-66/index.html> (<http://leobodnar.com/balloons/B-66/index.html>)



(/images/

circumnavigators/b66.gif)

**K6RPT CNSP-21**

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
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<b>CNSP-21</b>	25Jan15/unk/unk/unk	06Feb15/unk/unk/unk	unk	12-
Days				

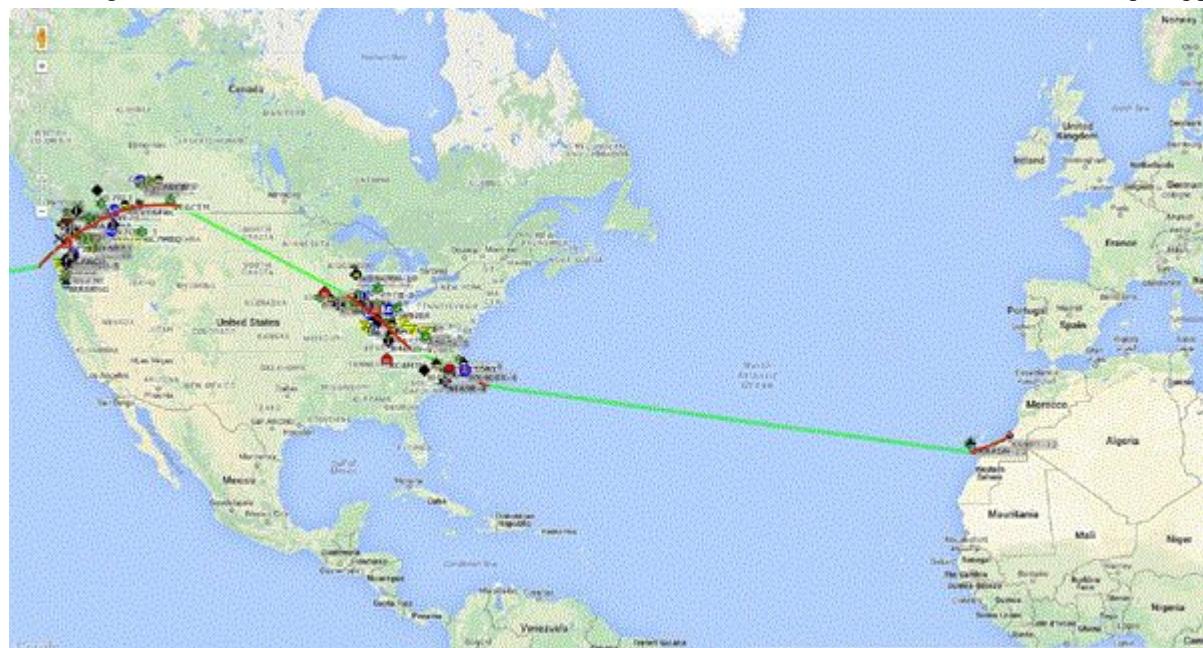
**K6RPT-12**

2m APRS on regional frequencies

**LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT**-----  
11Feb15/unk/unk/unk/unk (Morocco)

<http://www.cnsp-inc.com/cnsp-21/> (<http://www.cnsp-inc.com/cnsp-21/>)

CNSP-21 crossing US and Atlantic for the second time:



(/images/)

circumnavigators/cnsp21.gif)

## VK3YT PS-41

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
PS-41	05Apr15/unk/~-37.8/144.903 days <b>VK3YT</b> 20m/30m WSPR/JT9 telemetry 25mW transmitter	16Apr15/01:00z/-54.455/144.947	~9000m 11-
<hr/>			
<b>LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT</b>			
-----			
18Apr15/20:32z/-57.952/-79.084/9543m (Cape Horn)			
<a href="http://picospace.net/?m=201504">http://picospace.net/?m=201504</a> ( <a href="http://picospace.net/?m=201504">http://picospace.net/?m=201504</a> )			



(/images/)

circumnavigators/ps41.gif)

# K6RPT CNSP-24

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
<b>CNSP-24</b>	12Apr15/unk/unk/unk	27Apr15/unk/unk/unk	unk
days			15-
<b>K6RPT-11</b>	2m APRS on regional frequencies		
		<b>LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT</b>	
		10May15/unk/unk/unk/unk (near Japan)	

<http://www.cnsp-inc.com/cnsp-21/> (<http://www.cnsp-inc.com/cnsp-21/>)



(/images/

circumnavigators/cnsp24.gif)

# VK3YT PS-46

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
<b>PS-46</b>	22May15/21:00z/~-37.8/144.894	[#1] 04Jun15/01:00z/-27.834/145.37	~9000m
days			13-
<b>VK3YT</b>	20m/30m WSPR/JT9 telemetry	[#2] 04Jul15/02:30z/-19.135/145.234	~9000m
days	25mW transmitter		30-
		<b>LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT</b>	
		17Jul15/18:00z/-40.484/47.439/2251m	

<http://picospace.net/?m=201505> (<http://picospace.net/?m=201505>)



circumnavigators/ps46.gif)

## M0SBU UBSEDS15

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
-----	-----	-----	-----
-----	-----	-----	-----
<b>UBSEDS15</b>	30Apr16/08:09z/51.4668/-2.5803 days	01Jun16/10:14z/69.603348/-2.412605	~11700m 32-
<b>M0SBU-11</b>			
<b>AD6AM-11</b>			
Contestia 16/1000 434.600MHz USB +6dBm			
-----	-----	-----	-----
2m APRS on regional frequencies +14dBm		16Jun16/13:10z/71.409423/9.798628/11332m	

<http://www.bristol-seds.co.uk/hab/flight/2016/04/30/ubseds15.html> (<http://www.bristol-seds.co.uk/hab/flight/2016/04/30/ubseds15.html>)



circumnavigators/ubseds15.gif)

## K6RPT CNSP-29

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT
CNSP-29 days	13Jun16/14:14z/37.24/-121.8	[#1] 07Jul16/12:57z/44.06/-116.56	14069m	24-
K6RPT-12 days		[#2] 25Jul16/03:57z/57.77/-121.96	13595m	18-
		[#3] 24Aug16/19:32z/37.22/-121.80	14461m	30-

2m APRS on regional frequencies

LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT

08Sep16/04:18z/17.03745/-155.6467/14876m

<http://www.cnsp-inc.com/cnsp-29/> (<http://www.cnsp-inc.com/cnsp-29/>) and <https://twitter.com/K6RPT> (<https://twitter.com/K6RPT>)

<https://tracker.habhub.org/#!mt=roadmap&mz=2&qm>All&mc=55.36638,-154.61756&f=K6RPT-12&q=k6rpt-12> (<https://tracker.habhub.org/#%21mt=roadmap&mz=2&qm>All&mc=55.36638,-154.61756&f=K6RPT-12&q=k6rpt-12>)



circumnavigators/cnsp29.jpg)

## VE3KCL S-11

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT
S-11 days VE3KCL	14Jun16/10:06z/43.729/-79.375	04Jul16/13:54z/40.104/-73.625	>10000m	20-

20m/30m WSPR/JT9 telemetry

**LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT**  
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GPS problems above 10,000m

08Jul16/09:18z/62.6458/48.625/&gt;10000m (Russia)

<http://www.qrp-labs.com/ultimate3/ve3kcl-balloons/ve3kcl-s11.html> (/ultimate3/ve3kcl-balloons/ve3kcl-s11.html)

(/images/

circumnavigators/s11.jpg)

## M0SBU UBSEDS18

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT
UBSEDS18 days	17Aug16/07:08z/51.4658/-2.5825	[#1] 06Sep16/13:28z/62.8161/-2.47758	12900m	20-
M0SBU-12 days		[#2] 21Sep16/08:31z/42.6381/3.33165	13033m	15-
AD6AM-12 days		[#3] 10Oct16/04:08z/59.6220/43.81113	12801m	19-
		[#4] 23Oct16/08:57z/55.8996/43.31197	12750m	13-
		[#5] 05Nov16/09:22z/47.5358/6.0129	12522m	13-
days				
days				

**LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT**  
-----

Contestia 16/1000 434.612.5MHz USB

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2m APRS on regional frequencies

Aloft on 06Nov16 at 12829m over Black Sea

<http://www.bristol-seds.co.uk/hab/flight/2016/08/17/ubseds18.html> (<http://www.bristol-seds.co.uk/hab/flight/2016/08/17/ubseds18.html>)<https://twitter.com/brisolseds> (<https://twitter.com/brisolseds>)<https://tracker.habhub.org/#!mt=roadmap&mz=4&qm>All&mc=54.81545,26.40342&f=UBSEDS18&q=ubseds18> (<https://tracker.habhub.org/#!mt=roadmap&mz=4&qm>All&mc=54.81545,26.40342&f=UBSEDS18&q=ubseds18>)



(/images/

circumnavigators/ubseds18.jpg)

## W7QO HIRF(W)-3

This balloon flight has 21 days of missing data but probably completed a circumnavigation. The back-track on the map path below should actually contain a complete lap of the Earth, but due to problems the position wasn't reported during this time. Alan W7QO comments:

*"... cold temp startup issue, sometimes they start up, sometimes (most) they don't." and "  
... due to a mistake on my part, I forgot to start the script that takes the WSPR call and pushing it to APRS after I had done some other work on the script."*

FLIGHT	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT
INTERVAL	-----	-----	-----	-----
---	---	---	---	---

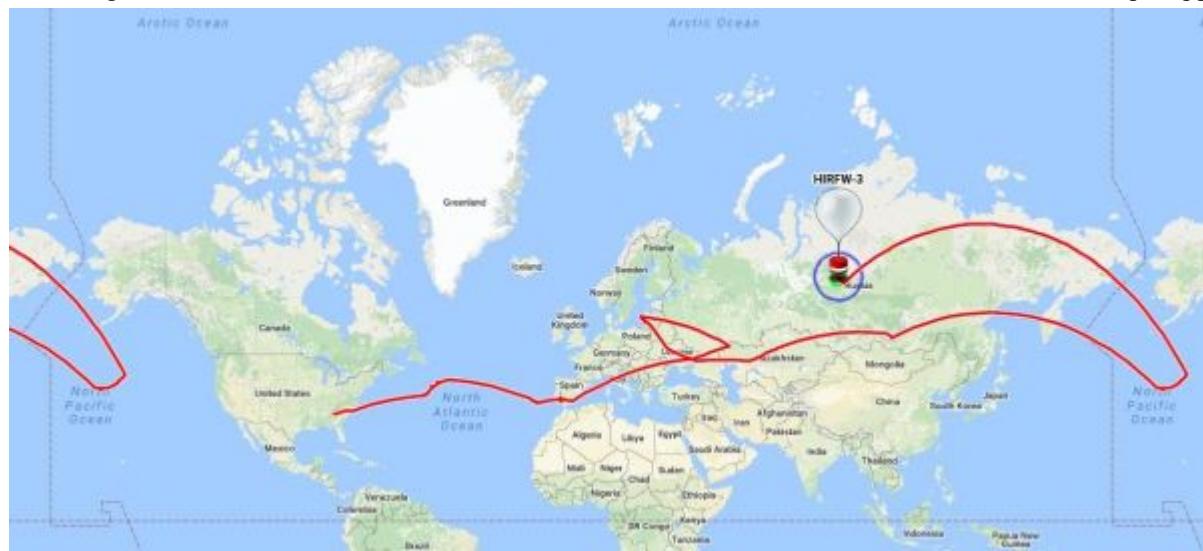
HIRFW-3	22Aug16/~10:00z/34.022/-83.871	[#1] UNK/UNK/UNK/UNK	UNK
UNK			
HIRF-3 (APRS)		[#2] UNK/UNK/UNK/UNK	UNK
UNK			
K4MEA (WSPR)		[#3] UNK/UNK/UNK/UNK	UNK
UNK			

2m APRS on regional frequencies  
WSPR-based telemetry

LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT

-----  
Aloft on 11Oct16 at 12665m above Russia

<https://tracker.habhub.org/#!mt=roadmap&mz=2&qm=All&mc=67.85867,622.06176&f=HIRFW-3&q=HIRFW-3>  
(<https://tracker.habhub.org/>  
#%21mt=roadmap&mz=2&qm=All&mc=67.85867,622.06176&f=HIRFW-3&q=HIRFW-3)



circumnavigators/hirfw3.jpg)

## K6RPT CNSP-30

The strange shape of the map is explained by the last APRS reports of the balloon being north-east of Japan, then nothing at all over North America, until the balloon reached Europe again. So there are no APRS reports around the launch longitude but the balloon did pass it. This happened a second time with the 2nd circumnavigation.

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
CNSP-30 UNK	25Aug16/UNK/37.24/-121.8	[#1] UNK/UNK/UNK/UNK	UNK
K6RPT-11 UNK		[#2] 10Oct16/11:51z/52.2626/-121.4359	15705m
		[#3] 30Oct16/12:02z/58.1505/-105.3582	15453m
		(Total interval: 66-days since launch)	

2m APRS on regional frequencies

LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT

Aloft on 06Nov16 at 16267m above eastern Med

<http://www.cnsp-inc.com/cnsp-30/> (<http://www.cnsp-inc.com/cnsp-30/>) and <https://twitter.com/K6RPT> (<https://twitter.com/K6RPT>)

<https://tracker.habhub.org/#!mt=roadmap&mz=2&qm>All&mc=57.79671,38.34631&f=K6RPT-11&q=k6rpt-11> (<https://tracker.habhub.org/#%21mt=roadmap&mz=2&qm>All&mc=57.79671,38.34631&f=K6RPT-11&q=k6rpt-11>)



(/images/

circumnavigators/cnsp30.jpg)

## W7QO HIRF(W)-5

FLIGHT	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT
INTERVAL				
-----	-----	-----	-----	-----
HIRFW-5	08Sep16/~10:00z/33.981/-83.787	[#1]~26Sep16/~09:00z/74.481/-53.037	13000m	~18-
days				
HIRF-5 (APRS)		[#2] 13Oct16/12:20z/28.7727/-83.7045	14110m	~17-
days				
W7QO (WSPR)				

2m APRS on regional frequencies  
WSPR-based telemetry

LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT

-----  
Aloft on 13Oct16 at 13999m above Florida

<https://tracker.habhub.org/#!mt=roadmap&mz=2&qm=A11&mc=58.40166,-57.39869&f=HIRFW-5&q=HIRFW-5>  
(<https://tracker.habhub.org/#%21mt=roadmap&mz=2&qm=A11&mc=58.40166,-57.39869&f=HIRFW-5&q=HIRFW-5>)

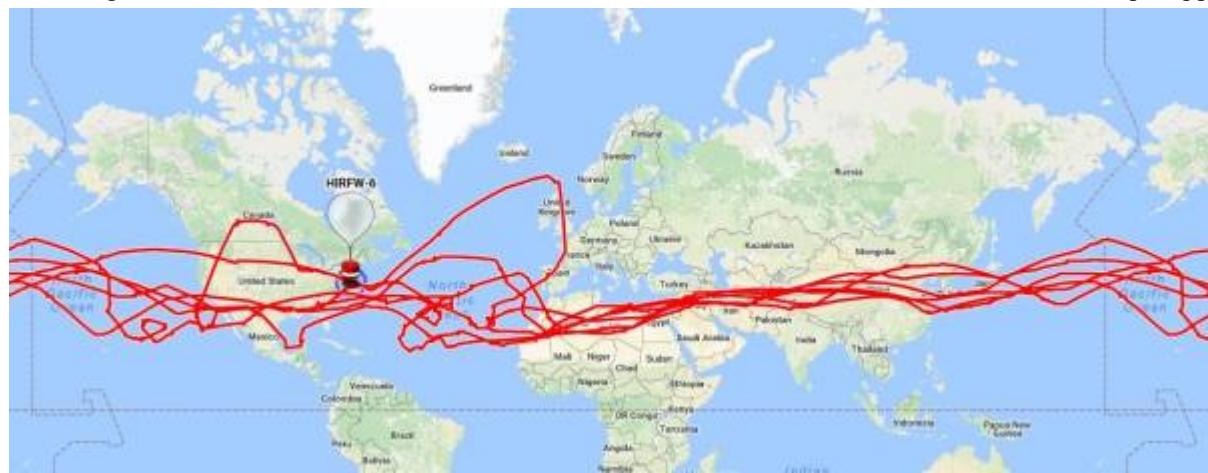


circumnavigators/hirf5.jpg)

## W7QO HIRF(W)-6

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
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HIRFW-6    days	20Sep16/10:05z/33.9394/-83.9545	[#1] 14Oct16/08:18z/32.2727/-74.9545	13887m    21-
HIRF-6 (APRS)    days		[#2] 28Oct16/08:17z/32.4810/-69.0378	13000m    14-
K4JCW (WSPR)    days		[#3] 11Nov16/07:33z/37.8977/-67.9545	13665m    14-
		[#4] 03Dec16/13:27z/36.4810/-75.0378	13000m    23-
		[#5] 13Dec16/21:02z/32.9394/-83.7045	13665m    10-
		[#6] 23Dec16/13:51z/41.4810/-81.0378	12999m    10-
2m APRS on regional frequencies WSPR-based telemetry		LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT	
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		Aloft on 23Dec16 at 13000m above Atlantic	

<https://tracker.habhub.org/#!mt=roadmap&mz=2&qm=A11&mc=53.10428,8.23697&f=HIRFW-6&q=HIRFW-6>  
(<https://tracker.habhub.org/#!mt=roadmap&mz=2&qm=A11&mc=53.10428,8.23697&f=HIRFW-6&q=HIRFW-6>)

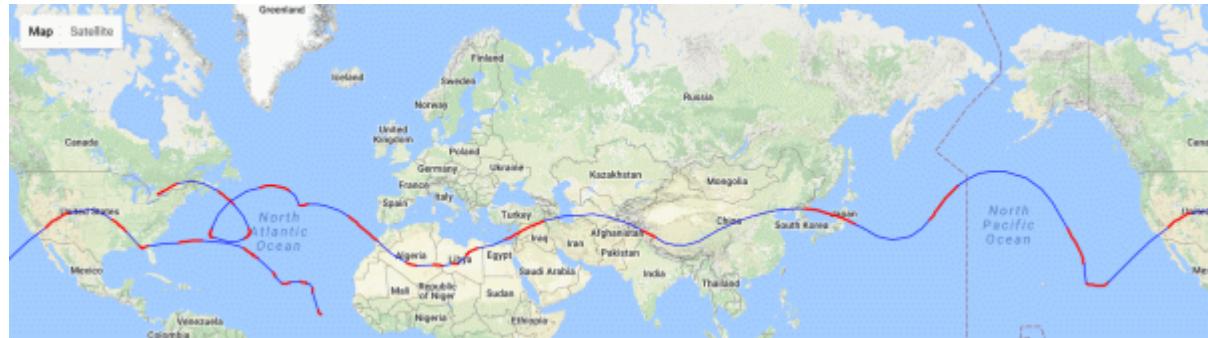


[circumnavigators/hirf6.jpg](#))

## VE3KCL S-18

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
S-18	06Oct16/01:18z/43.6875/-79.2916	27Oct16/09:30z/31.8125/-71.7916	10880m 21-
days			
VE3OCL			
20m/30m WSPR/JT9 telemetry			
		LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT	
		27Oct16/16:46z/32.0625/-69.0416/10840m (Atlantic)	

<http://qrp-labs.com/flights/s18.html> ([/flights/s18.html](#))



[circumnavigators/s18.gif](#))

## KD2EAT Wisp1c\_12

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
Wisp1c_12	19Oct16/16:58z/42.3560/-76.2045	02Nov16?/UNK/Grid FN44be	10000m ~14-
days			
KD2EAT-12			

WSPR-based telemetry

LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT

Landed in FN44be after completing circumnavigation  
lap

<http://hojoham.blogspot.com/2016/10/flight-wisp1c12.html> (<http://hojoham.blogspot.com/2016/10/flight-wisp1c12.html>)



(/images/

circumnavigators/Wisp1c12.jpg)

## WB8ELK WB8ELK-2

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT	ALT
WB8ELK days	17Nov16/12:30z/34.4083/-86.8133	[#1] 28-29Nov16/UNK/UNK/UNK	12000m	~11-
WB8ELK-2 days		[#2] 12Dec16/17:20z/38.729/-86.70817	12000m	14-
		[#3] 20-21Dec16/UNK/UNK/UNK	12000m	~ 8-

WSPR-based telemetry

LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT

<https://tracker.habhub.org/#!mt=roadmap&mz=2&qm=A11&mc=38.43198,-93.1692&f=WB8ELK-2&q=wb8elk-2>  
(<https://tracker.habhub.org/#!mt=roadmap&mz=2&qm=A11&mc=38.43198,-93.1692&f=WB8ELK-2&q=wb8elk-2>)

Aloft on 21Dec16 at 12000m over Atlantic



[circumnavigators/wb8elk2.jpg](#)

## M0SBU UBSEDS21

FLIGHT INTERVAL	LAUNCH: DATE/TIME/LAT/LONG	CIRCUMNAVIGATION: DATE/TIME/LAT/LONG	FLT ALT
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UBSEDS21	11Dec16/05:23z/51.4676/-2.5784	23-24Dec16/UNK/39.9543/-0.4475	15463m ~12-
days			days
M0SBU-13			
AD6AM-13			
Contestia 16/1000 434.610MHz USB		LAST TELEMETRY: DATE/TIME/LAT/LONG/ALT	-----
-----		-----	
2m APRS on regional frequencies		Aloft on 24Dec16 at 15463m over Med	
APRS on 145.825			

<http://www.bristol-seds.co.uk/hab/flight/2016/12/11/ubseds21.html> (<http://www.bristol-seds.co.uk/hab/flight/2016/12/11/ubseds21.html>)

<https://twitter.com/bristolseds> (<https://twitter.com/bristolseds>)

<https://tracker.habhub.org/#!mt=roadmap&mz=4&qm=A11&mc=54.81545,-1.72158&f=UBSEDS21&q=ubseds21> (<https://tracker.habhub.org/#%21mt=roadmap&mz=4&qm=A11&mc=54.81545,-1.72158&f=UBSEDS21&q=ubseds21>)



[circumnavigators/ubseds21.jpg](#)

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