2017 ARRL June VHF Contest Results

This year's contest brought in more logs than the last, and featured some new categories.

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After last year's wonderful contest propagation, everyone hoped this year's outing on June 10 - 12 would be its equal or better. As it turns out, while the glass may have seemed half full in comparison, it turns out the propagation was just being doled out in a different-sized container.

More Logs

More logs were submitted this year than we've seen in quite a while, surpassing last year's 1,132 logs with a whopping 1,297; even higher than 2011's 1,233 logs. There was a huge increase in Single Operator, Three-Band (SO3B) logs this year from 137 to 221, but this did not erode the most popular Single Operator, Low Power (SOLP) class, which increased by 43 to 540. Single Operator, FM Only (SOFM) logs increased from 14 to 27, while the remaining fixed-station categories held steady. The rebound of the Classic Rover category over the past few years, however, took a turn for the worse with only 27 logs — significantly down from 47 last year and 38 in 2015.

With flatter conditions, few existing records were challenged. Division and Section records for the newer SO3B and SOFM categories and the new Canadian Sections continue to be set. The previous contest score records are available for review on the ARRL website at www.arrl.org/contest-records and will be updated.

DX

This is essentially a North American VHF contest, but some stations made

contacts with European, Caribbean, South American, and African stations, as well as a few from Japan, Hawaii, and the South Cook Islands. In keeping with the general trend for DX contacts



Seen here at the Central States VHF Conference, Andrea, K2EZ, drove her Limited Rover station to 1st place through 13 grids. [Bob Striegl, K2DRH, photo]

VHF Fun Online

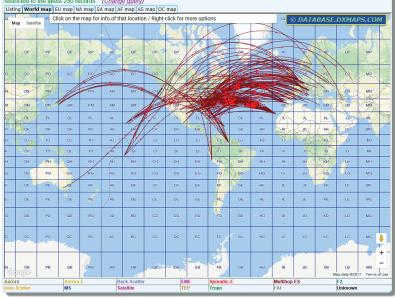
The complete results of the 2017 June VHF Contest, including detailed write-ups about some of the more interesting stations, are available online at www.arrl.org/contestrecords. on 6 meters, the majority of these were apparently accomplished using digital modes, mainly JT65A. Todd, N4QWZ, reported that he finally worked KH6 for state #50 on 6 meters, after a quest that spanned 20 years.

There were 30 DX logs (not counting Canada) submitted this year. C6ATA, a multioperator station in the Bahamas, had the top offshore score this year with a respectable 142,000, most of it on 6 meters, but with a few contacts on 2 meters, 222 MHz, and 432 MHz. Canadian participation rose yet again to 77 logs. The XE contingent doubled this time with 14 logs, and Jorge, XE2X, was back on top again this year.

Four stations submitted logs from Cuba — CO9KAA, CO3JA, CO8LY, and CM2XN. Although there were no logs from Alaska, one was submitted from NH6Y this year. KV4FZ and NP2X kept up with the demand for the Virgin Islands, along with KP3W and NP3CW for Puerto Rico. Among the more exotic calls in the database were PV8AZ, EA4DE, SP8FNA, 9M4COK, and 9W2VWT.

Getting Out and About with Portable

The Single Operator, Portable (SOP) stations are challenged with QRP power, but they can often choose QRO locations. It takes a lot of work to compete in this category, and operators often face daunting weather conditions and equipment challenges. Once again, this year's Top Five finishers were completely different than last year's, and three out QSO/SWL in North America above 5000 km on 50 MHz by any propagation mode between 2017-06-11 05:00:00 and 2017-06-12 03:00:59. Map restricted to the latest 250 records. (Change query)



This map shows the intercontinental activity on Sunday. [Map courtesy of dxmaps.com]

Sponsored Plaque Winners

Thanks to the generous support of the listed clubs, we are pleased to list the winners of the sponsored June VHF Contest plaques. For more information on plaque sponsorship, or to order a duplicate plaque, contact ARRL Contest Branch Manager Bart Jahnke, W9JJ, at 860-594-0232 or **w9jj@arrl.org**. Plaques cost \$75, which includes all shipping charges.

Plaque Category	Winner	Plaque Sponsor
Overall Single Operator, High Power Overall Single Operator, Low Power Overall Single Operator, Three-Band Overall Single Operator, Low Power, Rookie	K1TEO K2DRH KG6IYN W4RER	Charles Dietz, W5PR Jeffrey Klein, K1TEO Northern Lights Radio Society W3ZZ First Log Award — Memorial by
Overall Rover	ACØRA/R	Tim, K3LR, and Dave, W9PA In Memory of Tim Ertl, KE3HT,
Overall Limited Rover Overall Unlimited Rover Overall Limited Multioperator	K2EZ/R AB4CR/R K5QE	"Microwave DX Addict" Rochester VHF Group Directive Systems and Engineering Gene Zimmerman, W3ZZ, Memorial — ABRI Contest Branch
Overall Multioperator Atlantic Division Single Operator, High Power Atlantic Division Single Operator, Low Power Atlantic Division Single Operator, Three-Band Central Division Single Operator, High Power Central Division Single Operator, Low Power Central Division Single Operator, Three-Band Central Division Single Operator, Low Power Dakota Division Single Operator, Low Power Delta Division Single Operator, High Power Hudson Division Single Operator, Low Power	W2SZ K1RZ WA3EOQ W3LL K9CT K2DRH WB9TFH NV9L N0HJZ W5ZN WB2JAY N2JJ	ARRL Contest Branch Bart Jahnke, W9JJ — ARRL Contest Branch Potomac Valley Radio Club Potomac Valley Radio Club Rochester VHF Group Society of Midwest Contesters Society of Midwest Contesters Society of Midwest Contesters Society of Midwest Contesters Northern Lights Radio Society Memorial to Mike Bruck, W5MRB, from his friends Northern Lights Radio Society Athur Wolfred K / MDRD
Hudson Division Single Operator, Three-Band Northwestern Division Single Operator, High Power Northwestern Single Operator, Three-Band Roanoke Division Single Operator, High Power Roanoke Division Single Operator, Low Power Southeastern Division Rover Southeastern Division Rover Southeastern Division Multioperator Southeastern Division Multioperator Southeastern Division Single Operator, Low Power Canada Single Operator, Low Power Canada Rover	K7CW N7EPD W3IP N4YDU K1TO K4OJ/R AD4ES W4UAL W6IT VE3DS VE3OIL/R	Arthur Wolferd, KA2BPP — In memory of Roger Amidon, K2SMN — Sunday Morning N Boring, OR Amateur Radio Club Pacific Northwest VHF Society Potomac Valley Radio Club Southeastern VHF Society Southeastern VHF Society Southeastern VHF Society Bud Semon, N7CW Neil Macklem, VE3SST Toronto FM Communications Society

of five were from the west coast.

David, W4DVE, appears to be a relative newcomer to VHF contesting and, to his surprise, won the Northwestern Division SOP in June 2017. He is an apartment dweller, so he takes his efforts to the 2,200-foot Davis Peak north of Portland in the WWA section, setting up with a pair of other SOP stations at the same site — K7ALO and



David, W4DVE, camped out on top of Davis Peak near Portland, Oregon, to win the Single Operator, Portable category. [David Reindl, W4DVE, photo]

KG7VLB, joined by K7KAD/R. Their cooperative efforts netted David 1stplace this year with 9,000 points. His buddy, Alex, K7ALO, earned the 2ndplace score at 6,000 points. Tom, W4RXR, rebuilt a motorcycle trailer into a tower trailer, then went to one of the many hilltops in Tennessee to achieve a score of 5,000 to take 3rd place. Bruce, WA2TMC, from New York, bagged 4th place with just over 4,000 points, and Mark, KE7MSU, in Oregon took 5th with slightly under 4,000.

The New Categories

This is the fifth year for the two new single operator categories. SO3B has proven very popular, with log submissions skyrocketing, and SOFM has

Affiliated Club Competition

Club	Score	Entries
Unlimited		
Society of Midwest Contesters Potomac Valley Radio Club	983,154 867,717	75 60
Medium		
Mt. Airy VHF Radio Club 1 Arizona Outlaws Contest Club Florida Contest Group Contest Club Ontario Roadrunners Microwave Group Northern Lights Radio Society Frankford Radio Club New Mexico VHF Society Carolina DX Association Georgia Contest Group Yankee Clipper Contest Club Southern California Contest Club Alabama Contest Group Florida Weak Signal Society Grand Mesa Contesters of Colorado Central Texas DX and Contest Club Rochester VHF Group Texas DX Society Badger Contesters Tennessee Contest Group North Texas Microwave Society Northern California Contest Club Michigan VHF-UHF Society Hudson Valley Contesters and DXers Rochester (NY) DX Assoc. South East Contest Club DFW Contest Group Orca DX and Contest Club Utah DX Association Minnesota Wireless Assoc. Mad River Radio Club Saskatchewan Contest Club Lodi ARC Big Sky Contesters South Jersey Radio Assoc. North Coast Contest Group Wilamette Valley DX Club Kentucky Contest Group	171,490 119,567 108,130 106,640 81,133 63,356 53,707 49,765	17 234 153 27 216 18 9 24 12 7 12 315 3 5 7 4 27 7 5 4 5 3 6 3 3 6 9 3 5 4 3 4 5 3 3 8 9 24 4 5 3 5 7 4 5 7 6 3 3 6 9 3 5 4 3 5 8 9 3 5 4 3 3 6 9 3 5 4 3 3 6 9 3 5 4 5 3 3 6 9 3 5 4 5 3 5 7 9 2 16 18 9 9 2 16 18 9 2 16 19 10 10 10 10 10 10 10 10 10 10 10 10 10
Local		
Eastern Connecticut ARA CTRI Contest Group Bergen ARA Stoned Monkey VHF ARC Bristol (TN) ARC Pottstown Area ARC Meriden ARC Niagara Frontier Radiosport Ventura County Amateur Radio Socie NorDX Club Kansas City DX Club	92,874 64,789 63,006 27,360 25,405 18,794 15,446 6,073 ety 5,173 2,920 2,623	53834545333

almost doubled in size. Bruce, KG6IYN, took his SO3B station into the field to his "secret above-ground lair" in San Diego and broke into the Top Five at 1st place with 124,000 points — almost double the score of his nearest competitor. Excellent 6- and 2-meter totals helped him shatter his own section and Southwest Division records.

In the wide-open spaces, VHF FM activity is very sparse, and it's practically nonexistent in the farming communities of the midwest. Consequently, entries in the SOFM category tend to cluster around population centers.

Notably, four of the Top Five stations turned in golden logs with no mistakes again. Although KK4OSG didn't quite reach the 100-contact level again on 2 meters with "only" 91, his 5,000point effort netted him another 1st place. In the closest race of the contest, Mark, W6IA, from Santa Clara Valley edged out frequent Top Five finisher Ev, W2EV, in western New York by a mere 6 points.

On the Rove Again

Rovers work hard to find advantageous locations and supply grid multipliers that normally wouldn't be on the air. It takes a lot of time and effort to set up an effective station in a vehicle, scope out locations, and plan an effective route. Sometimes rovers deal with unexpected equipment failures, like those that plagued mega-rover K8GP this year, or high winds in the upper midwest that prevented antenna deployment. Some rovers visit only a few grids, while others like KØDAS/R do long-distance dashes, like their 22-grid run this contest.

Multioperators

The multioperator stations can make contacts from 6 meters to light. Whether fixed or portable, it takes a lot of effort and manpower to keep it all going year after year. Marshall's, K5QE, superstation from the south Texas flatlands once again rose to the occasion to win the Limited Multioperator category this year — the fifth year in a row. After experiencing frustrating conditions on Saturday, the team stepped back up on Sunday to log some of the best 6-meter numbers of the contest. The W2SZ Mt. Greylock Expeditionary Force posted their 27th June VHF win in the Unlimited Multioperator category with 711,000 points from New England.

Tips for the Future

The most important part of any contest is to get on the air and make the most of the conditions you're dealt. Play within the rules. Work the openings when you find them. Do what's necessary to maximize your points and multipliers.

Top Ten W/VE

Classia Baya		Single Operator, FM Only						
Classic Rove ACØRA/R VE3OIL/R VE3WJ/R KF2MR/R AG4V/R WA3PTV VE7JH K8GP/R KT5TE/R	205,200 100,873 46,228 33,366 27,930 27,126 25,599 25,017 22,800	KK4OSG W6KKO W6IA W2EV N9VM (N1VN K6KQV VE7JRX KI7NQN	5,370 1,125 406 400					
WD5RAH/R	22,796	K7BWH K6QCB	104 100					
Limited Rove K2EZ/R WW7D/R KA5D/R VE3SMA/R W3ICC AE5P/R AL1VE/R N6GP/R K9JK/R N2DXT/R	64,400 57,132 44,440 40,768 39,000 24,354 23,968 21,420 21,390 21,168	Limited Mult K5QE K2LIM N2NT NN7AZ AA4ZZ W3SO NV9L W2LV W4IY AD4ES	tioperator 409,260 339,212 255,486 234,790 227,280 214,474 167,244 155,868 134,830 84,560					
Unlimited Ro AB4CR/R	24,225	Unlimited M	ultioperator					
NØLD/R KD5IKG/R KJ1K/R K7ATN/R WØZF/R W3HMS VE7AFZ/R VE3KGC/R	18,216 17,487 9,702 5,336 3,936 3,224 2,808 1,548	W2SZ W3CCX W4NH WQØP N8ZM W9XA WE1P VE3WCC W7MRF	711,900 529,800 193,065 146,331 137,368 128,028 109,120 105,625 88,536					
Single Opera High Power	itor,	N2PA 84,160						
K1TEO K5TR W5ZN K1RZ K9CT WØUC K1TO WZ1V	589,050 399,672 275,764 275,520 237,349 194,023 188,773 165,330	Single Opera High Power EA8DBM XE2CQ YV6CR FS/K9EL Single Opera	40,916 11,110 992 342					
K4PI KØGU	165,330 152,471 142,492	Low Power XE2X	8,777					
Single Opera Low Power K2DRH AF1T WB1GQR (W AD5A WB2JAY	234,818 204,516	CO3VR XE2JS CO3JA XE2NBW 8P2K (8P6SI XE2S EA4DE (EA4	5,922 2,501 1,036 675 H, op) 30 16					
Nøll N4QWZ K1KG AA5AM W9GA	65,610 65,404 56,502 51,852 51,272	Unlimited M T43S XE2OK	2,146 256					
Single Opera Portable	itor,	Top Ten DX						
W4DVE K7ALO W4RXR WA2TMC KE7MSU KD6RMS WX3P	8,525 5,829 5,247 4,488 3,925 3,822 3,344	High Power XE2X PV8DX XE2CQ Single Opera Low Power XE2JS	89436 3870 3564 ator, 28784					
WB2AMU W9SZ	2,686 2,485	XE2NBW CO3JA	14857 5676					
NV4B Single Opera Three-Band KG6IYN K2PS N7IR KØNR	1,656 tor, 124,623 58,464 38,645 33,439	CO8LY XE2HWB XE2PEA PV8AZ XE2YWH CM2XN XE2S	4424 2160 1170 891 780 522 504					
KK4MA W3LL WA4GPM	30,240 29,300	Limited Mult XE2N	tioperator 770					
WA4GPM N2BEG N7EPD K4FJW	23,324 17,381 17,155 16,827	Unlimited M C6ATA CO9KAA						

Regional Leaders

(New England, Hudson, (D and Atlantic Divisions; Sc Maritime and Quebec AG		(Delta, Roa				Central Region (Central and Great Lakes Divisions; Ontario East, Ontario North, Ontario South, and Greater			Midwest Region (Dakota, Midwest, Rocky Mountain, and West Gulf Divisions; Manitoba and Saskatchewan)			West Coast Region (Pacific, Northwestern, and Southwestern Divisions; Alberta, British Columbia, and NWT)			
KF2MR/R	33,366	R	W5VY/R	9,042	R	Toronto Ar	ea Sectio	ons)	ACØRA/R	205,200	R	VE7JH	25,599	R	
WA3PTV	27,126	R				VE3OIL/R	100,873	R	KT5TE/R	22,800	R	N6JET/R	9,504	R	
NN3Q/R	4,200	R	NC5AX/R	8,880	RL	VE3WJ/R	46,228	R	WD5RAH/R	22,796	R	K7SWS	6,771	R	
VE2NR/R	2,448	R	WA4JA/R	575	RL	KF8QL/R	2,700	R	KØMHC/R	8,856	R	N6ZE/R	4,983	R	
NE3I	507	R	WBØPOH	510	RL	VA3CDD/R	611	R	KCØP/R	2,675	R	AC7SG/R	3,705	R	
			K4OJ	108	RL	VE2LJV/R	50	R		,			-,		
K2EZ/R	64,400	RL	KG4KOW/R	42	RL	TLLLO T/TT			KA5D/R	44,440	RL	WW7D/R	57,132	RL	
W3ICC	39,000	RL				VE3SMA/R	40,768	RL	AE5P/R	24,354	RL	N6GP/R	21,420	RL	
N2DXT/R	21,168	RL	W5ZN	275,764	SOHP	K9JK/R	21,390	RL	AL1VE/R	23,968	RL	WA8WZG/R		RL	
KC1EYG/R		RL	K1TO	188,773	SOHP	N9GH/R	18,088	RL	KK6MC/R	16,432	RL	K7KAD/R	7,099	RL	
W1RGA/R	11,940	RL	K4PI	152,471	SOHP	W9YOY/R	7,700	RL	KØDAS/R	15,725	RL	KD1RX/R	3,549	RL	
	,		KC4PX	129,156	SOHP	K8DOG/R	4,620	RL		-, -			-,		
AB4CR/R	24,225	RU	N4BP	116,708	SOHP	100000,111	1,020		NØLD/R	18.216	RU	K7ATN/R	5.336	RU	
KJ1K/R	9,702	RU		-,		VE3KGC/R	1,548	RU	KD5IKG/R	17,487	RU	VE7AFZ/R	2,808	RU	
W3HMS	3,224	RÜ	N4QWZ	65,404	SOLP	VEORGO/IT	1,040	110	WØZF/R	3,936	RÜ		_,		
	-,		NU4Y	45,486	SOLP	K9CT	237,349	SOHP		-,		N7CW	76,892	SOHP	
K1TEO	589,050	SOHP	KG5MD	45,210	SOLP	WØUC	194,023	SOHP	K5TR	399.672	SOHP	K7CW	49,914	SOHP	
K1RZ	275,520	SOHP	W4RER	34,840	SOLP	VA3ELE	62,480	SOHP	KØGU	142,492	SOHP	KE7SW	30.832	SOHP	
WZ1V	165,330	SOHP	AA5AU	30,690	SOLP	VE3ZV	56.485	SOHP	K5AM	140,352	SOHP	N6VI	29,640	SOHP	
W3EP	95.608	SOHP	7010710	00,000	002.	K8ZR	50,960	SOHP	W5PR	103,408	SOHP	W7FI	27.144	SOHP	
K1IIG	94,828	SOHP	W4RXR	5,247	SOP	NOZI	50,500	3011	WB2FKO	67,137	SOHP	••••	27,144	00111	
	,		NV4B	1,656	SOP	K2DRH	234,818	SOLP				W6IT	26,838	SOLP	
AF1T	204,516	SOLP	K3TW	770	SOP	W9GA	51,272	SOLP	AD5A	103,255	SOLP	WJØF	23,681	SOLP	
WB1GQR (\		002.	W2ODH	391	SOP	VE3DS	35,518	SOLP	NØLL	65,610	SOLP	KC6ZWT	16,531	SOLP	
	148,176	SOLP	N4ZAK	210	SOP	N9LB	34,272	SOLP	AA5AM	51,852	SOLP	VA6AN	14,356	SOLP	
WB2JAY	87,292	SOLP		2.0	00.	K9MU	21,700	SOLP	AI5I	49,632	SOLP	K2GMY	8,517	SOLP	
K1KG	56,502	SOLP	K2PS	58,464	SO3B	NJWIO	21,700	JOLI	NØPOH	40,128	SOLP	I LE GIVIT	0,017	OOLI	
WA3EOQ	46,170	SOLP	KK4MA	30,240	SO3B	W9SZ	2.485	SOP		.0,.20	002.	W4DVE	8,525	SOP	
	,		WA4GPM	23,324	SO3B	WK9U	648	SOP	NIØW	221	SOP	K7ALO	5,829	SOP	
WA2TMC	4,488	SOP	K4FJW	16,827		N9REP	112	SOP	NJ7H	96	SOP	KE7MSU	3,925	SOP	
WX3P	3,344	SOP	AA4SC	13,176	SO3B	VA3RKM	45	SOP	W8KSC	81	SOP	KD6RMS	3,822	SOP	
WB2AMU	2,686	SOP				VE3EG	16	SOP	K7LU	60	SOP	KB1KXL	825	SOP	
KQ2RP	1,204	SOP	KK4OSG	5.370	SOFM	VLOLG	10	001	KIØG	1	SOP	TED TO LE	010	00.	
N1PRW	325	SOP	KE5WMA	3	SOFM	WB9TFH	10.395	SO3B				KG6IYN	124,623	SO3B	
			K4IMP	1	SOFM	W9VS	7,434	SO3B	KØNR	33,439	SO3B	N7IR	38.645	SO3B	
W3LL	29,300	SO3B	WWØLFE	1	SOFM	WB9HFK	5,152	SO3B	WY7KY	16,200	SO3B	N7EPD	17,155	SO3B	
N2BEG	17,381	SO3B	K6OBX	1	SOFM	N9LQ	5,044	SO3B	WDØBGZ	15,486	SO3B	K7BG	12,191	SO3B	
N3ALN	16,568	SO3B	KW4LU	1	SOFM	NT9E	4,465	SO3B	KC7QY	11,815	SO3B	KI6RRN	11,523	SO3B	
AI3Z	14.625	SO3B				NICL	4,403	0000	N7KA	9,525	SO3B		,020	0002	
W1DYJ	14,208	SO3B	AA4ZZ	227.280	LM	KC9PCP	80	SOFM		- ,		W6KKO	1.125	SOFM	
			W4IY	134,830	LM	N9LJX	6	SOFM	KG5FHU	6	SOFM	W6IA	406	SOFM	
W2EV	400	SOFM	AD4ES	84,560	LM	K9WX	1	SOFM				N9VM (N1V)	(qo .N		
VA2DG	22	SOFM	N4HB	64,452	LM			00.111	K5QE	409,260	LM	- (376	SOFM	
KD2LCH	15	SOFM	K5GDX	54,972		NV9L	167,244	LM	NØKE	77,649	LM	K6KQV	330	SOFM	
N1MJD	4	SOFM		· ·		W9RVG	18,590	LM	NØEO	16,745	LM	VE7JRX	161	SOFM	
			W4NH	193,065	UM	KC8AAV	14,365	LM	K5LRW	6,969	LM				
K2LIM	339,212	LM	W4UAL	56,000	UM	N9TF	3,116	LM	WØVB	3,795	LM	NN7AZ	234,790	LM	
N2NT		LM	N4JQQ	38,352	ŬМ		0,110					NI6E	17,408	LM	
W3SO	214,474	LM	W4COV	10,400	UM	N8ZM	137,368	UM	WQØP	146,331	UM	K7TM	5,734	LM	
W2LV	155,868	LM				W9XA	128.028	UM	KC5MVZ	8,890	UM	WA6ZBL	3,424	LM	
W1QK	42,036	LM				VE3WCC	105,625	UM	WØFRC	4,992	UM	K6YK	1,003	LM	
						W9VW	54,528	UM					,		
W2SZ	711,900	UM				N9UHF	27,244	UM				W7MRF	88,536	UM	
W3CCX	529,800	ŬМ										KD7UO	41,757	UM	
WE1P	109,120	UM										WA60IB	34,452	UM	
N2PA	84,160	UM		Poyoe list		ooro and alcos	I.M _ 1 i~	aited Multie	norator: P - Clas			WA7JTM	30,208	UM	
KV1J	81,844	UM		Boyer D	- Limitod	Boyer: PL - Lo	LIVI = LIII	War: SO2P	perator; R = Clas = Single Operate	or		N6MI	15,800	UM	
				Three-Ba		= Single Operato		IIY, SORP =	Single Operator	, riigri					

Three-Band; SOLPM = Single Operator, FM Only; SOHP = Single Operator, Higr Power; SOLP = Single Operator, Low Power; SOP = Single Operator, Portable, and UM = Unlimited Multioperator.

Log as accurately as you can. Stay in the seat during the lean hours. Go to CW and digital when things slow down. Use the chat pages to set up longerdistance contacts on CW or digital modes. Keep on making contacts until the final bell.

It isn't necessarily about who has the biggest station. It's really about who wants it most and is willing to do the things necessary to make it happen. See you all again next year from June 9 - 11 in the 2018 edition of the June VHF Contest!

Strays

2018 NASA On the Air Event

The Amateur Radio club stations at the various NASA facilities plan to be on the air with special event operations throughout 2018. Some clubs will be offering commemorative QSL cards and a special certificate will be available indicating how many NASA club stations you worked on various bands and modes. The event runs from December 11, 2017 through December 27, 2018 with the following key dates:

- ■Apollo 17 45th anniversary, December 11 14, 2017.
- 60th anniversary of the founding of NASA, July 29, 2018.
- 20th anniversary of the ISS first element l, November 20, 2018.
- 20th anniversary of the ISS Node 1 launch, December 4, 2018.
 - Apollo 8 50th anniversary, December 21, 2018.

There will be other operations throughout the year. See **nasaontheair.wordpress.com** for details and information about how to check your contacts and obtain a certificate.