Results of the 2022 CQ World Wide VHF Contest

BY JOHN "JK" KALENOWSKY,* K9JK

Wow ... hard to believe that this is already my fourth year as director for this contest. Just as I think I'm starting to get the hang of my duties as director: Monitoring log submissions and responding to questions from participants, doing the log checking, compiling the results, writing this article, some things happen and best laid plans encounter difficulties — more on that later in the article.

This year's third full weekend of July was another active year for the CQWW VHF Contest, though the impact of world events was definitely felt in the number of log submissions received from Europe. The total count of logs received in 2022 dropped from last year, with 850 received (plus another 14 classified as checklogs), but that is still the fifth-highest log count in the recent history of the contest.

A total of 49,996 QSOs were reported in this year's 864 logs, yielding an average of just over 50 contacts for each log. For 6 meters, 40,261 QSOs were reported in the 755 logs that included QSOs on that band versus 9,735 QSOs in the 430 logs that reported QSOs on 2 meters. The percentage of QSOs by band in 2022 is consistent with recent years — 80.5% of QSOs reported were on 6 meters and 19.5% were on 2 meters, as compared to an 82% / 18% split in 2021 and a 79% / 21% split in 2020.

Digital mode usage grew (again) in 2022. According to the two letter MOde reported on the Cabrillo QSO: Lines in the submitted logs, 38,738 of all QSOs were completed using "DG" or "RY", 77.4% overall. By band, it was 33,256 of 40,281 6-meter QSOs (82.6%) and 5,482 of 9,735 (56.3%) of 2-meter QSOs that were completed using digital modes this year. This is the first year in which more than half of the 144-MHz QSOs reported using "DG" or "RY".

If you made a 50-MHz contact with EN95, it was likely with XM3A, operated by Igor Slakva, VE3ZF, operating from the top of Mt. McLean on Manitoulin Island. (Credit: Igor Slakva, VE3ZF)

USA

The log count from the contiguous 48 U.S. states increased this year to 515 (plus four checklogs), an approximately 5% increase over the count from 2021. The Single-Operator, Single-Band category using 6-meters (SOSB6) continues as the most popular category overall in this contest. Nearly half of the logs from the U.S., 242, were SOSB6. Single Operator All-Band continued as the second most popular category with 202, a shade under 40%. The count of Rover logs grew by five from last year to 27. Single-Operator All-Band QRP matched the count from 2021 with 16. The Single-Operator, Single-Band, 2-meters (SOSB2) category was a little more competitive in 2022 with 13 entries. There were 10 Multi-Operator and five Hilltopper entries rounding out the U.S. total. The 4th call area continued its reign as the log submission leader with 118. The 5th call area was second busiest with 62, taking that spot away from 7th call area which finished in third place for 2022 with 54 logs.

After claiming the top score in the SOSB6 category in 2021 (and top Rover category scores in prior years), Wyatt, ACØRA stayed in the one spot again for 2022 but added 2 meters to his equipment array to achieve the top score in the Single Operator, All Band category. Wyatt's final QSO / Multiplier counts were: 353/164 on 6 meters and 139/72 on 2 meters for a final score of 144,904.

There was some competition in the U.S Multi-Operator efforts with the team at K5QE leading the scores in the category. Within 20% of Team Marshall's final score were the scores from teams at N4SVC and W8ZN. Final Scores, QSO, and Multipliers counts by band for these three competitors are summarized in the table below.

Team	Final Score	6m Qs	6m Mults	2m Qs	2m Mults
K5QE	113,096	343	151	100	60
N4SVC	99,182	379	171	59	31
W8ZN	92,070	278	114	146	51

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The U.S. winner of the SOSB6 category was Dan, K1TO. Dan kept himself very busy on the 50-MHz band with 420 QSOs and 168 Multipliers for a final score of 70,362. Dan did have some competition in the category from a fellow Floridian: Larry, N6AR. Larry almost matched Dan's multiplier count with 166 but had 35 fewer QSOs (385) for a final score of 62,748.

The SOSB2 category also found some notable efforts in the U.S. this year. Paul, AA4ZZ, who had hosted the W4VHF Multi-Operator effort in 2021, focused his North Carolina station on the 144-MHz frequencies for 133 QSOs and 53 Multipliers, yielding a final score of 14,098. Stan, KA1ZE, piloted his W3XTT remote station in FN01 to find a few more multipliers than Paul did (57) but fell shy of Paul's QSO total with 110 for a final score of 12,426.

Jim, KO9A, continued his streak of being the top U.S. scorer in the Single-Operator, All-Band QRP category, now for a fourth straight year. Jim's 2022 score was a bit lower than last year's, with final QSO/Multiplier counts of 171/76 on 6 meters, and 58/29 on 2 meters for a final score of 29,820.

An excellent roving adventure was reported by Christopher, NV4B, resulting in a score of 52,752 to achieve the top score among this year's 27 U.S Rover category entrants with a trek through six grids in Alabama, Mississippi, and Tennessee. Christopher logged 222 QSOs on 6 meters and 47 on 2 meters with multiplier counts of 131 and 47 on the two bands, respectively.

In the U.S. Hilltopper category, Pete, K9PW, has rePETEd as the top scorer for the third year in a row. Pete's efforts resulted in a final score of 7,638 more than doubling his score from 2021. He logged 111 QSOs (88 on 50 MHz and 23 on 144 MHz) and contacted 47 different grid locators on 50 MHz and 10 on 144 MHz.

Among 32 U.S. clubs from which three or more logs were received in 2022, congratulations to the Potomac Valley Radio Club for the top club score of 357,237 from 38 submitted logs. Two very strong Multi-Operator efforts by teams at W8ZN and W3SO really boosted the club's total and Don, N3MK, was the top Single-Operator contributor.

DX

The 335 logs received from outside the U.S. for this year's contest was only half of last year's DX log count. The breakdown by continent is shown in the table below:

Continent	Logs	# of different DXCC Countries
Africa	1	1
Asia	95	12
Europe	100	29
Oceania	23	1
South America	45	4
North America (other than U.S.)	71	6 (other than U.S.)
Total	**335**	**53**

A "QTH selfie" by Ricardo, PY2QB, who operated from Lavrinhas Ranch in GG77, approximately 150 kilometers northeast of Sao Paulo, Brazil. (Credit: Ricardo Benedito, PY2QB)

TOP SCORES

WORLD

All Band
EA8DBM.....94,612
I1JTQ.....13,176
IC8TEM 9,040
SF6F.....7,497
E74SL.....7,260

6 Meters
ISØBSR 28,495
XE2JS.....27,816
SX2I.....24,592
6D5C 18,768
SV1NZX.....12,282

2 Meters
S56P.....22,620
YO5LD.....7,000
YO2LSP.....4,758
IZ7UMS 4,672
YO2LLZ 4,536

Hilltopper
E7ØAA.....4,068
XM3A.....3,710
JJ1WWL 3,520
YC3AHD 48
PY2TDB.....16

QRP
VA2VT 6,405
XE2YWB.....4,160
SV3AUW 4,104
M5W 2,420
SP9SDF.....1,980

Rover
JG3DHN/R....3,036
BG5BAA/R....1,512
VA3OGG/R.....924
VA7OTC/R.....735
VE3WVA/R.....440

Multi-Op
IR9K.....82,256
4O6BLM 75,543
HG6Z.....58,548
OK1RDO 31,230
4X2M 22,230

USA

All Band
ACØRA....144,904
K2DRH 101,920
W5PR 50,370
N3MK.....49,368
K9KLD 47,995

6 Meters
K1TO 70,392
N6AR 62,748
W5LO 34,846
K5PI.....31,354
N5RZ 30,888

2 Meters
AA4ZZ 14,098
W3XTT 12,426
KD8ZEI 3,196
WA3EOQ.....1,452
WE7L.....988

Hilltopper
K9PW 7,638
KEØMHJ.....551
K3GD.....551
AA6XA.....108
K7ATN.....39

QRP
KO9A.....29,820
WAØMN 3,735
W5UHQ 1,215
K4CF 1,060
K3TW.....396

Rover
NV4B/R.....52,752
KG9OV/R...39,064
AA5PR/R ...21,090
N6GP/R 16,470
N2SLN/R ...10,428

Multi-Op
K5QE 113,096
N4SVC.....99,182
W8ZN 92,070
W3SO 62,181
W3RFC.....16,936

View toward the horizon from PY2QB's operating location. (Credit: Ricardo Benedito, PY2QB)

CLUB COMPETITION

(Minimum of 3 entries required for listing)

UNITED STATES

Club Name	# Entries	Score
Potomac Valley Radio Club	38	357,237
Society Of Midwest Contesters	20	267,226
Florida Contest Group	12	183,841
Dfw Contest Group	6	142,584
Mt Airy VHF Radio Club	9	131,929
Yankee Clipper Contest Club	17	115,360
Florida Weak Signal Society	4	97,950
Arizona Outlaws Contest Club	16	94,139
Texas DX Society	6	90,413
Central Texas DX and Contest Club	4	82,462
Southern California Contest Club	16	54,642
North East Weak Signal Group	6	52,876
Pacific Northwest VHF Society	20	45,868
Rochester VHF Group	5	43,808
Northern California Contest Club	8	34,822
Carolina DX Association	4	28,234
New Mexico VHF Society	4	26,672
Arizona VHF Society	3	22,475
South East Contest Club	4	19,073
Frankford Radio Club	5	17,180
Northern Lights Radio Society	9	16,292
South Jersey DX Association	4	11,258
Grand Mesa Contesters of Colorado	6	5,904
Willamette Valley DX Club	3	4,816
Metro DX Club	3	4,805
North Coast Contesters	3	4,368
Central Ohio Operators Klub	3	3,585
Portage County Amateur Radio Service	6	2,024
Kentucky Contest Group	4	1,368
Minnesota Wireless Assn	6	1,240
Hudson Valley Contesters and DXers	4	745
Tennessee Contest Group	3	144

DX

Club Name	# Entries	Score
Italian Contest Club	3	45,889
Club De Radio Experimentadores De Occidente	3	20,852
QSO Banat Timisoara	4	19,744
Contest Club Ontario	10	19,556
Manitoulin Amateur Radio Club	12	7,830
Rhein Ruhr DX Association	3	7,202
Contest Group du Quebec	4	6,810
Cabreuva DX	9	697
Radiofarol DX Group	12	665
Orari Lokal Kediri	10	408
Lu Contest Group	4	91
Rio DX Group	3	36

The drop in "DX" log submissions in 2022 was fairly consistent for all continents, except for non-U.S. parts of North America. Operators from Canada submitted 53 logs this year, claiming the top spot for logs submitted from countries outside the U.S. The log count from Brazil was second overall by country, leading the South American contingent. Significant log counts from Japan (31) and China (25) brought the total count from Asia to 95, only five behind the total count of logs from Europe. The country leaders for Europe's 100 logs were Italy (15), Romania (13), and Germany (11). The ongoing conflict in eastern Europe appears to have had a significant impact on European participation. Indonesia was the only country in Oceania from which logs were received in 2022, with 23 logs, and the single log from Africa was from the Canary Islands.

Among the World/DX participants, the ranking of the top two categories matched that of U.S. log submitters with Single Operator, Single Band, 6 meters (SOSB6) winning the category popularity contest with 106 logs, followed by Single Operator, All Band with 85. The Single Operator, Single Band, 2 meters (SOSB2) was next in World popularity with 59 entries received. Fourth in world popularity was Single Operator, All Band, QRP, with 47 logs. There were 26 Multi-Operator, 8 Rover, and 6 Hilltopper submissions, which rounded out the category choices among DX stations.

The top score of any entry from outside the U.S. was from EA8DBM in the Canary Islands (IL18) in the Single Operator, All Band category. The 6-meter conditions appear to have been very favorable for Aleksandr to record 358 QSOs and 195 Multipliers on the band, plus another 41 QSOs and 23 Multipliers on 144 MHz for a final score of 94,612.

Grid JM67 in Italy was the place to be to win the Multi-Operator category. A crew of nine operators at IR9K amassed a final score of 82,256 with QSO / Multiplier totals of 311/158 on 6 meters and 58/25 on 2 meters. A final score of 75,543 from the Multi-Operator team at 4O6BLM in Montenegro (JN92) is also notable, less than 10% behind IR9K's score.

Once again, Bostjan, S56P, was the DX leader in the SOSB2 category from his station in Slovenia (JN76) with a final score of 22,620 from 195 contacts among 58 different Grid Locators.

Propagation was likely quite different in Sardinia (JN40) and Mexico (DL68), but just 679 points (less than 3%) separates the final scores of Marco, ISØBSR, and Julian, XE2JS, among DX entrants in the SOSB6 category. Julian's QSO total was 235 (26 more than Marco) but Marco's 139 multipliers (17 more than Julian) gave Marco the top score of 28,495.

Canadian operator Nicolas, VA2VT, achieved the world group's top score in the Single-Operator, All-Band, QRP category, with 98 total QSOs and 61 Multipliers for a final score of 6,405. Nicolas operated from grid locator FN45 in the province of Quebec, the same spot where he had operated as VE2NCG (his prior callsign) and claimed the top score in the Hilltopper category in 2021.

ROVERS & GRIDS OPERATED

AA5PR/R	DM74 DM75 DM76 DM86
ABØYM/R	DM78 DM79 DM89 DN70
AC1JR/R	FN31 FN32 FN41 FN42
AG6RS/R	DM03 DM04 DM05
BG5BAA/R	OL99 OM90 PL09 PM00
JG3DHN/R	PM95 PM96 PM97 QM06 QM07
KØBAK/R	FN10 FN20
KØDAS/R	EN30 EN31 EN32 EN40 EN41 EN42
K6LMN/R	DM03 DM04
K9JK/R	EN50 EN51 EN52 EN60 EN61 EN62
KA7RRA/R	CN87 CN88 CN97 CN98
KD6EFQ/R	DM12 DM13
KD6HOF/R	CM88 CM98 CM99
KD8RTT/R	EM28 EM29 EM38 EM39
KE4WMF/R	FM07 FM16 FM17 FM18 FM26
KF2MR/R	FN03 FN13
KG9OV/R	EM59 EM68 EM69 EN50 EN51 EN60 EN61
KI5FIQ/R	EM11 EM21 EM22
N2SLN/R	FN12 FN21 FN22 FN23
N6GP/R	DM03 DM04 DM13 DM14
N6LB/R	CN88 CN98
N6UTC/R	DM03 DM04 DM05
N9GH/R	EN51 EN52 EN53 EN61
NV4B/R	EM43 EM44 EM54 EM55 EM64 EM65
VA3OGG/R	EN86 EN96
VA7OTC/R	CN88 CN89
VE2GT/R	FN35 FN36
VE3LDE/R	EN86 EN95 EN96
VE3WVA/R	EN85 EN95 EN96
WØETT/R	DN62 DN70 DN71 DN72
W3DHJ/R	DM77 DM78 DM87 DM88
W9YOY/R	EN51 EN61
WB2SIH/R	FN32 FN33
WD9EXD/R	EN54 EN55 EN56 EN57 EN66
YD3AXD	OI51

QSO & GRID LEADERS

6-Meter QSOs

K1TO	420
N6AR	385
N4SVC	379
EA8DBM	358
ACØRA	353
K5QE	343
IR9K	311
W5PR	301
K2DRH	300
WA2FGK	287
W8ZN	278
W5LO	264
K5PI	261
WA4GPM	253
XE2JS	235
N5RZ	235

6-Meter Grids

EA8DBM	195
N4SVC	171
IR9K	169
K1TO	168
N6AR	166
ACØRA	164
K5QE	151
ISØBSR	139
W5PR	136
W5LO	133
N5RZ	132
K2DRH	131
NV4B/R	131
WA4GPM	123
KC4PX	123

2-Meter QSOs

S56P	195
HG6Z	189
HS1AN	181
E24ZPX	181
HSØEDP	164
OK1RDO	152
W8ZN	146
ACØRA	139
AA4ZZ	133
HS1AB	124
W3SO	121
E27IHO	121
JF1RYU	120
E24QND	120
K2DRH	115

2-Meter Grids

ACØRA	72
K2DRH	65
KG9OV/R	63
HG6Z	62
K5QE	60
OK1RDO	59
S56P	58
W3XTT	57
AA4ZZ	53
W3SO	52
W8ZN	51
4O6BLM	50
N2NT	44
YO2LSP	39
N2JMH	38

PY2QB's antenna farm — a 7-element LFA Yagi and an omni vertical. (Credit: Ricardo Benedito, PY2QB)

In the world Hilltopper category. Zoran, E7ØAA was the top scorer from grid JN93 in Bosnia-Herzegovina. He had 69 total QSOs (25 on 6 meters and 44 on 2 meters) and 36 multipliers (18 each on 6 and 2 meters) earning Zoran a category-leading score of 4,068.

The top non-U.S. score in the Rover category was achieved by Masaki, JG3DHN, who travelled through five grids in Japan. Masaki logged 28 QSOs and 16 grid locators on 50 MHz and 32 QSOs and 17 grid locators on 144 MHz for a final score of 3,036.

The lower count of logs from DX participants is reflected in the lower number of clubs represented. Twelve clubs met the minimum requirement of three log submissions with the Italian Contest Club claiming the top aggregate total of 45,889 points from three logs. Marco, ISØBSR, was the top individual contributor to the club's total score.

Digital Modes

Digital modes, largely FT-8 (but there are others), continue to be a factor in this and other radiosport events, both VHF and High Frequency (HF). When propagation conditions are marginal, the ability of a computer to detect and decode exchange information from a signal in the receiver passband that is below the "noise" and not decodable by the human operator is quite an advantage and most of the higher scoring participants avail themselves of that capability in their operating strategy.

For 2023, the rules will not see any substantial changes but there may be an option to specify whether contacts were all completed using "Digital" (FT-8 and other modes in the digital "family" where a computer decodes the call and exchange sent by the other station), all "Analog" (SSB / CW / FM, where the human operator decodes the call and exchange sent by the other station) or "Mixed" (where both "Digital" and "Analog" are used). The present seven category structure will remain and there will NOT be any sub-categories by these sub-modes.

I also received a report of a station that appeared to be operating as a robot using digital modes as some of the software packages for digital modes are capable of doing. The callsign of this station appears in a number of logs but the no log was submitted for the callsign. For 2022, no contacts were removed from any other logs but since I feel such activity is not in the spirit of the CQWW VHF contest, I may also address this in the rules for 2023 and take action in the log checking.

Apology From the Director

As I alluded in the opening paragraph of this article, despite having been director for this contest for four years, I still have a lot to learn and room to improve in fulfilling my duties as contest director. One significant area in need of my attention and improvement is the award plaques program, which have not been ordered / processed since past CQWW VHF

Contest Director Steve Bolia, N8BJQ, handled that for my first year as director in 2019. I did manage to collect the funds for plaques from the sponsors for 2020 and 2021, but I am delinquent in getting those plaques ordered and sent to the winners. For 2022, I have totally "dropped the ball" and that is why there is no listing of award plaques for 2022 in this article. I am working to get caught up for 2020 and 2021 and plaques for 2022 will follow (presuming that sponsors are still willing to continue their sponsorships despite MY poor performance). Going forward, I will be working to make the process for plaque sponsorship and distribution to the winners more like the process that is in place for other events in the CQ World Wide family of contests under the umbrella of the World Wide Radio Operators Foundation, Inc. <https://tinyurl.com/4p9dr6kd>. Net, net, I will do better in 2023.

What Else Will 2023 Bring?

The 2023 CQWW VHF Contest will be held on July 15th and 16th, the earliest dates that the third full weekend of July can fall. This weekend is also the closest to the summer solstice where the summer Sporadic-E season typically peaks and hopefully where participants can finally experience some enhanced propagation from Cycle 25?

Repeating the constant plea of past directors, if you operate, please send in a log. Any size log is greatly appreciated. If you need help, please ask. More logs make cross-checking the other logs more accurate.

Don't forget to check out the CQWW VHF Contest website <www.cqww-vhf.com>. Comments, suggestions, and corrections are always welcome. Quite a bit of the data was entered manually. If you find an error, please let us know.

Number/letter groups after call letters denote the following: Class (A = all band, 6 = 6 meters, 2 = 2 meters, Q = QRP, H = Hilltopper, R = rover. M = multi-operator), Final Score, Number of QSOs, Number of grid locators, State/Province (USA/Canada only), Grid Locator or Number of grids activated (rover only). Rover scores for USA are listed separately. Scores in bold indicate certificate winners. Score in italic are disqualified.

2022 VHF RESULTS
NORTH AMERICA
UNITED STATES

WZ1V	**A**	**33,448**	**230**	**113**	**CT**	**FN31**
N8RA	A	20,904	207	78	CT	FN31
N1JEZ	**A**	**19,834**	**170**	**94**	**VT**	**FN44**
K1KA	**A**	**16,884**	**166**	**84**	**NH**	**FN42**
NE1B	A	14,880	160	80	NH	FN42
AF1T	A	9,570	131	58	NH	FN43
N1SV	**A**	**3,978**	**78**	**39**	**MA**	**FN42**
N1JD	**A**	**2,405**	**61**	**37**	**ME**	**FN44**
N1PRW	A	1,856	58	29	MA	FN42
W1UED	A	1,725	44	23	CT	FN31
K1ZK	A	858	26	22	VT	FN34
K5ZD	A	850	50	17	MA	FN42
K1MD	**A**	**836**	**35**	**22**	**RI**	**FN41**
WA1LBK	A	702	29	18	MA	FN41
WB2VVQ	A	475	22	19	MA	FN32
N1SFE	A	420	26	14	CT	FN31
NE1F	A	352	22	16	NH	FN33
NF1O	A	312	24	13	NH	FN33
K2KA	A	310	22	10	MA	FN42
N2HX	**6**	**20,448**	**217**	**96**	**MA**	**FN32**
W1RM	**6**	**6,272**	**113**	**56**	**CT**	**FN31**
K1AR	**6**	**5,175**	**116**	**45**	**NH**	**FN42**
KB1W	6	2,074	61	34	MA	FN32
KE1R	6	1,988	74	28	CT	FN31
K1BZ	**6**	**1,715**	**51**	**35**	**ME**	**FN54**
K1TR	6	1,530	52	30	NH	FN42
K1EP	6	1,127	49	23	MA	FN42
W1MI	6	792	33	24	MA	FN32
K1KI	6	580	29	20	CT	FN32
AA1NK	6	532	40	14	MA	FN42
N1CEO	6	490	36	14	MA	FN42
W1AKI	6	490	38	14	NH	FN42
W1IG	6	364	26	14	CT	FN31
N1WRK	6	285	19	15	MA	FN41
K1ZZ	6	180	15	12	CT	FN31
K1SX	6	132	12	11	MA	FN41
WK1O	6	126	15	9	MA	FN42
AF1R	6	114	20	6	MA	FN42
W2CS	6	63	9	9	MA	FN41
N1ADX	6	49	7	7	MA	FN42
N1IBQ	6	25	5	5	CT	FN31
N1SOH	**M**	**7,038**	**126**	**46**	**MA**	**FN42**
					Ops: N1SOH W1FM	
N2JMH	**A**	**35,090**	**217**	**121**	**NY**	**FN12**
N2NT	**A**	**33,363**	**231**	**99**	**NJ**	**FN20**
						Op: N2NC
WW2Y	A	27,560	214	106	NY	FN24
W9KXI	A	24,480	189	102	NY	FN12
KA2ENE	A	3,268	69	43	NY	FN13
K2RET	A	3,038	68	31	NJ	FM29
N2SLO	A	2,496	62	32	NY	FN30
W2SJ	A	2,352	63	28	NJ	FM29
K2OEQ	A	2,310	51	35	NY	FN13
WT2J	A	646	32	19	NY	FN30
WA3AFS	A	540	32	18	NY	FN32
W2RME	A	378	20	14	NY	FN22
						Op: W2BDN
N2RC	A	352	21	16	NY	FN21
W2ZS	A	156	13	12	NY	FN23
N2NKX	A	126	12	9	NY	FN22
N3YY	**6**	**14,596**	**171**	**89**	**NY**	**FN22**
KZ2I	**6**	**7,860**	**133**	**60**	**NJ**	**FM29**
KA2MGE	6	6,370	100	65	NY	FN02
KD2JOE	6	4,437	89	51	NJ	FM29
W3SW	6	2,720	76	40	NY	FN22
W2FDJ	6	925	40	25	NJ	FM29
K2ZR	6	374	24	17	NY	FN03
N2OO	6	270	27	10	NJ	FM29
N2BEG	6	180	16	12	NY	FN12
N2JJ	6	108	14	9	NY	FN33
K2AMI	6	96	16	8	NJ	FN20
KX1W	6	90	12	9	NJ	FM29
K4RUM	6	77	12	7	NY	FN30
K1MUU	6	64	8	8	NY	FN32
KA2AEY	6	64	10	8	NY	FN13
N2SO	6	20	5	4	NY	FN31
K2MN	6	16	4	4	NJ	FM29
N2SFS	6	12	4	3	NY	FN21
K3TC	**A**	**21,146**	**193**	**97**	**MD**	**FM19**
K3ZO	A	10,184	142	67	MD	FM18
K3MD	**A**	**7,296**	**104**	**64**	**PA**	**FN10**
KR1ST	A	7,074	101	54	PA	FN21
NF3R	A	6,902	99	58	PA	FN20
N3MWQ	**A**	**6,096**	**93**	**48**	**DE**	**FM29**
K3SX	A	2,044	44	28	MD	FM19
KD3HN	A	1,344	48	28	PA	FM19
WB3IGR	A	576	25	18	PA	FN10
NG3W	A	72	6	6	PA	FN01
WA3AAN	A	66	11	6	PA	FN20
KB8TUY	A	24	8	3	PA	EN91
AA3S	A	4	2	2	MD	FM19
WA2FGK	**6**	**27,522**	**287**	**99**	**PA**	**FN21**
						Op: K2LNS
K3ISH	6	10,001	137	73	PA	FN21
N1EK	**6**	**5,668**	**112**	**52**	**MD**	**FM19**
K3UA	6	3,588	80	46	PA	EN91
KB3ORR	6	825	34	25	PA	EN90
KB4BKV	6	405	28	15	MD	FM19
K3HX	6	270	19	15	PA	FN00
K3CU	6	204	17	12	PA	FN20
N3XL	6	144	16	9	MD	FM18
W3ZJ	**6**	**90**	**10**	**9**	**DC**	**FM18**
N3DUE	6	66	11	6	MD	FM19
K3KU	6	21	7	3	MD	FM19
N3QE	6	18	6	3	MD	FM19
KN1OLA	6	1	1	1	PA	FN00
W3XTT	**2**	**12,426**	**110**	**57**	**PA**	**FN01**
WA3EOQ	**2**	**1,452**	**35**	**22**	**MD**	**FM09**
K3HW	**Q**	**272**	**18**	**16**	**PA**	**FN20**
K3GD	**H**	**551**	**21**	**19**	**PA**	**FN11**
W3SO	**M**	**62,181**	**324**	**141**	**PA**	**FN00**
			Ops: W3XOX W3IDT W3SF W3BTX			
W3RFC	**M**	**16,936**	**164**	**73**	**MD**	**FM19**
			Ops: W3RFC KØOO WA3OFF K3OQ			
WA3EKL	M	15,614	162	74	MD	FM19
		Ops: WA3EKL KB3VQC WT3K W1TRT K3TBD N9SG N3DPB				
N3MK	**A**	**49,368**	**304**	**132**	**VA**	**FM27**
WA4GPM	**A**	**40,415**	**278**	**137**	**FL**	**EM90**
KK4MA	**A**	**37,380**	**232**	**140**	**SC**	**EM93**
K1HTV	A	37,128	266	119	VA	FM18
K3DNE	A	25,920	196	120	SC	EM94
N4HB	A	20,868	176	94	VA	FM17
K5VIP	A	19,074	186	102	VA	FM16
WB2SNN	A	16,055	166	95	FL	EL96
K5EK	**A**	**14,014**	**156**	**91**	**NC**	**FM03**
WB4OMG	A	13,973	137	89	FL	EL98
N4QV	A	11,644	142	82	FL	EL96
W1BQ	A	11,100	147	75	FL	EL98
K4WMS	A	9,588	122	68	VA	FM17
AB4SF	A	7,752	121	57	VA	FM17
W3IP	A	5,456	106	44	VA	FM19
N4LAZ	A	5,415	73	57	NC	EM95
KO4IJH	A	5,250	86	50	VA	FM18
NG4C	A	4,752	70	48	NC	FM16
K2PS	A	4,437	88	51	FL	EL98
K4MY	**A**	**4,200**	**77**	**56**	**GA**	**EM74**
K4EA	A	3,520	50	44	GA	EM74
K4BAI	A	3,486	84	42	GA	EM72
K4SO	A	3,034	57	41	VA	FM18
N2QT	A	2,867	63	47	VA	FM07
WA4LDU	A	2,501	52	41	SC	EM93
K4AKS	A	2,368	61	37	FL	EL88
K4FJW	A	2,100	45	35	VA	EM86
K4RW	A	2,091	51	41	SC	EM92
KM4QHI	A	1,947	51	33	GA	EM84
WA4DYD	A	1,870	53	34	GA	EM83
N3KN	A	1,776	48	37	VA	EM97
NN3W	A	1,749	55	33	VA	FM18
KQ4KX	A	1,600	47	32	FL	EL98
K7UWR	A	1,036	39	28	GA	EM92
K3NF	A	900	33	20	VA	FM18
W4IU	A	760	36	19	GA	EN74
N5SMQ	A	756	36	21	VA	FM08
KV4ZY	A	735	31	21	VA	FM08
K1DS	A	630	24	18	FL	FN20
KY4G	**A**	**608**	**22**	**19**	**AL**	**EM64**
N4SZF	A	551	31	19	NC	EM95
KI4LLA	A	494	23	19	VA	FM07
K4BSK	A	384	21	16	VA	FM07
WXØEMT	**A**	**228**	**16**	**12**	**TN**	**EM85**
AE4WG	A	168	15	12	FL	EL99
AC2N	A	143	13	11	FL	EL89
KM4KMU	A	135	13	9	VA	FM16
W3GQ	A	104	12	8	NC	EM95
WF4R	A	104	13	8	VA	FM16
K4FTO	A	78	8	6	VA	FM18
W4ATL	A	50	6	5	GA	EM73
K4BBH	A	42	8	6	GA	EM73
W4EE	A	35	9	5	FL	EL98
W4NZ	A	4	2	2	TN	EM75
K1TO	**6**	**70,392**	**420**	**168**	**FL**	**EL87**
N6AR	6	62,748	385	166	FL	EL98
KC4PX	6	25,584	212	123	FL	EL98
N8KH	6	17,978	187	101	FL	EL98
K4WI	**6**	**17,094**	**224**	**77**	**AL**	**EM62**
KM4HI	6	15,778	168	98	FL	EL89
WD4CNO	6	13,024	153	88	FL	EL87
KU8E	**6**	**11,899**	**168**	**73**	**GA**	**EM72**
WN2E	6	10,703	155	77	FL	EM60
WW3A	6	6,666	102	66	FL	EL99
N5BO	6	6,318	117	54	FL	EM60
N4SIX	**6**	**6,111**	**98**	**63**	**NC**	**FM04**
K2SG	6	5,490	92	61	FL	EL88
WB4EHG	6	5,073	94	57	FL	EL96
N4IDH	6	3,234	69	49	AL	EM71
KE4S	**6**	**2,840**	**71**	**40**	**VA**	**FM19**
KG4JPL	6	2,684	62	44	FL	EL88
KN4SM	6	2,337	57	41	VA	FM16
KN4PPD	6	2,014	55	38	FL	EL89
WC2F	6	2,014	53	38	FL	EM70
K4LDC	6	1,530	51	30	GA	EM74
K4YCR	6	1,512	56	28	VA	FM07
W4VIC	6	1,378	54	26	VA	FM16
WB4TDH	6	975	39	25	FL	EL87
K8LF	6	704	35	22	VA	FM17
W5MX	**6**	**475**	**25**	**19**	**KY**	**EM77**
KN4IWO	6	437	23	19	FL	EL79
W4UWC	6	375	27	15	KY	EM77
K4WW	6	320	20	16	KY	EM78
NV4C	6	315	22	15	GA	EM74
K4QE	6	270	18	15	NC	FM05
KS1G	6	216	21	12	VA	FM18
K8IJ	6	198	18	11	KY	EM78
NZ4N	6	198	18	11	NC	FM06
W9LN	6	169	14	13	AL	EM73
KM4SLW	6	168	14	12	GA	EM72
N4CF	6	168	15	12	VA	FM17
KK4LWR	6	165	15	11	FL	EL98
NJ4Q	6	156	14	12	VA	FM07
AI4WW	6	117	14	9	FL	EL96
N9TF	**6**	**110**	**11**	**11**	**TN**	**EM66**
WA4AH	6	110	12	10	FL	EL99
N4NQY	6	104	16	8	VA	FM17
KM4IAJ	6	100	10	10	VA	FM18
W4DTA	6	90	10	10	TN	EM55
K4XL	6	81	10	9	VA	FM07
K4ORD	6	42	7	6	VA	FM07
K4SBZ	6	42	7	6	FL	EM70
K5VG	6	30	8	5	VA	FM18
WA4JA	6	30	7	6	TN	EM65
KO4UJS	6	20	5	4	VA	FM17
KE4VNC	6	4	2	2	NC	FM05
N2YF	6	4	2	2	FL	EL87
AA4ZZ	**2**	**14,098**	**133**	**53**	**NC**	**EM96**
W4JFA	2	18	3	3	NC	EM95
K4CF	**Q**	**1,060**	**39**	**20**	**NC**	**EM86**
K3TW	**Q**	**396**	**22**	**18**	**FL**	**EL88**
W5NZ	**Q**	**378**	**21**	**18**	**AL**	**EM62**
W2QL	**Q**	**112**	**11**	**7**	**VA**	**FM18**
KC8KSK	**Q**	**48**	**8**	**6**	**SC**	**FM03**
N4SVC	**M**	**99,182**	**438**	**202**	**FL**	**EM80**
		Ops: WB2FKO K1UHF KE4PWE KD4AMP N2CEI				
W8ZN	**M**	**92,070**	**424**	**165**	**VA**	**FM09**
					Ops: W8ZN K1RA K1RZ	
WB4WXE	**M**	**4,819**	**75**	**61**	**AL**	**EM74**
					Ops: WB4WXE KB4ZFA	
N4JDB	M	2,769	77	39	AL	EM64
					Ops: N4JDB KS4B	
W5PR	**A**	**50,370**	**324**	**146**	**TX**	**EL29**
K5ND	A	17,856	170	96	TX	EM12
KA5D	A	15,120	149	90	TX	EM10
N5EKO	A	15,045	175	85	TX	EM20
W5KI	**A**	**9,975**	**133**	**75**	**AR**	**EM36**
AJ4F	A	9,600	132	75	TX	EL29
NN5T	A	6,254	128	53	TX	EM12
N5GIT	A	5,880	87	60	TX	EL09
AI5HG	**A**	**5,358**	**94**	**57**	**MS**	**EM54**
KG5ZMQ	**A**	**5,074**	**85**	**59**	**LA**	**EM32**
KB5VKP	A	4,399	75	53	TX	EM10
W5WGF	A	3,456	69	48	MS	EM54
N5DTT	A	2,666	62	43	TX	EL29
K5MNZ	A	1,575	46	35	TX	EM11
N5JS	A	1,350	44	30	TX	EM12
WA5LFD	A	1,200	43	24	TX	EM12
W5RAW	A	1,050	42	25	TX	DM95
WA8ZBT	A	578	34	17	TX	EM12
AE5P	A	558	25	18	TX	EM21
KI5UTQ	A	399	22	19	MS	EM54
K5GZR	A	60	10	6	TX	EL29
KCØLFQ	**A**	**30**	**5**	**5**	**NM**	**DM65**
W5WZ	A	16	5	4	LA	EM32
W5LO	**6**	**34,846**	**264**	**133**	**TX**	**EM03**
K5PI	6	31,354	261	122	TX	EM00
N5RZ	6	30,888	235	132	TX	EM00
N2IC	**6**	**18,165**	**175**	**105**	**NM**	**DM52**
N5TJ	6	16,170	167	98	TX	EM10
N5HHS	6	15,180	167	92	TX	EL29
K5TIA	6	12,672	138	96	TX	EL29
W5SUM	**6**	**8,362**	**117**	**74**	**LA**	**EM32**
KJ5RC	**6**	**7,995**	**126**	**65**	**MS**	**EM42**
AA5AU	6	5,208	95	56	LA	EL49
AE5FM	6	4,590	93	51	TX	EM13
K5CKS	**6**	**4,240**	**83**	**53**	**AR**	**EM25**
KC7QY	6	4,116	89	49	NM	DM64
WA2VYA	6	4,050	81	50	TX	EM10
WB5JJJ	6	3,869	78	53	AR	EM35
AF5CC	**6**	**3,600**	**82**	**45**	**OK**	**EM04**
WA5KBH	6	3,500	72	50	LA	EM30
KG5EIU	6	3,034	76	41	TX	EM13
WQ5L	6	2,709	64	43	MS	EM50
W2ODH	6	2,408	64	43	TX	EM13
NRØQ	6	2,312	70	34	OK	EM26
W5MO	6	2,142	52	42	TX	EL09
WS5N	6	2,124	61	36	NM	DM54
K7ZYV	6	1,890	55	35	MS	EM50
W1ZOT	6	1,750	53	35	TX	EM12
NM5WB	6	962	39	26	NM	DM65
WV5Y	6	759	36	23	TX	EL29
NØLD	6	624	29	24	OK	EM15
W5SRO	6	480	26	20	OK	EM15
K5AGE	6	437	23	19	TX	EM21
W5DDS	6	352	22	16	TX	EL09
KB5ZEA	6	308	24	14	MS	EM53
WØZW	6	300	20	15	NM	DM65
AA5AH	6	216	19	12	TX	EM12
WD5BJT	6	110	11	11	MS	EM50
KI6HQT	6	36	7	6	TX	EM10
AI5G	6	30	6	6	TX	EM13
K5QE	**M**	**113,096**	**443**	**211**	**TX**	**EM31**
		Ops: K5QE N5YA KI5MHB AF8Z KF5LKG K5SAB VE3WY				
KC5MVZ	M	3,400	65	50	TX	DM93
		Ops: KC5MVZ KE5BZO				
AG6X	**A**	**42,180**	**299**	**114**	**CA**	**DM12**
NA6MG	A	10,730	137	74	CA	DM04
KF6I	A	5,673	90	61	CA	DM13
AA2IL	A	5,151	92	51	CA	DM12
W6IT	A	2,106	49	39	CA	DM13
KA5WSS	A	1,012	43	23	CA	CM88
N6PGQ	A	240	19	10	CA	CM98
AG6JA	A	210	20	10	CA	CM87
K2GMY	A	140	15	7	CA	CM88
K6MAA	A	120	15	8	CA	DM04
KI6X	A	119	14	7	CA	DM13
KG6DNY	A	40	7	5	CA	DM13
N6QQ	**6**	**17,195**	**187**	**95**	**CA**	**DM03**
NU6S	6	10,944	145	76	CA	CM87
N5KO	6	9,842	135	74	CA	CM97
WM6Y	6	7,455	112	71	CA	DM13
AF6RT	6	6,720	115	60	CA	CM87
W6DR	6	5,814	107	57	CA	CM87
W6KAP	6	4,094	95	46	CA	CM98
W6BVB	6	3,780	87	45	CA	DM13
WA6GD	6	2,145	67	33	CA	DM04
NE6I	6	1,334	49	29	CA	DM12
K9TAD	6	1,326	52	26	CA	DM04
NU6V	6	759	34	23	CA	CM87
N6ORB	6	702	39	18	CA	CM87
W8GJK	6	660	32	22	CA	CM95
K6OAK	6	510	33	17	CA	CM97
KC6MIE	6	350	31	14	CA	DM13
N6IC	6	198	22	11	CA	DM04

N6VHF	6	168	21	8	CA	DM13
N6VOH	6	126	19	7	CA	DM13
AJ6HT	6	56	9	7	CA	CM87
W6DMW	6	40	8	5	CA	CM97
N4DLA	6	28	7	4	CA	CM87
W6SX	6	1	1	1	CA	DM07
N6AN	**Q**	**16**	**5**	**4**	**CA**	**DM04**
AA6XA	**H**	**108**	**11**	**6**	**CA**	**CM87**
WØXR	**A**	**20,907**	**208**	**101**	**AZ**	**DM22**
N7IR	A	15,300	177	85	AZ	DM43
N7EPD	**A**	**9,776**	**156**	**52**	**WA**	**CN87**
AA7A	A	8,040	118	67	AZ	DM43
W7FI	A	7,426	140	47	WA	CN87
W7MEM	**A**	**6,728**	**98**	**58**	**ID**	**DN17**
W7EW	**A**	**6,171**	**109**	**51**	**OR**	**CN84**
KD7UO	A	1,968	67	24	WA	CN87
KX7L	A	1,536	59	24	WA	CN87
W7OJT	A	1,428	40	28	AZ	DM24
K7IU	A	1,387	61	19	WA	CN97
N7QOZ	A	1,024	42	16	WA	CN87
N7NEV	A	988	38	26	AZ	DM43
N7XU	A	988	40	26	OR	CN94
						Op: K4XU
K7ULS	**A**	**546**	**24**	**21**	**UT**	**DN41**
KC7OOY	A	496	24	16	OR	CN82
WA7YAZ	A	396	23	18	UT	DN40
WO7V	A	294	21	14	OR	CN92
N7RK	A	264	21	11	AZ	DM33
N6ZE/7	A	210	22	7	WA	CN87
N7DB	A	162	19	6	OR	CN85
AF7GL	A	21	4	3	WA	CN96
WØRIC	**6**	**16,471**	**182**	**91**	**AZ**	**DM33**
KC7V	6	10,147	140	73	AZ	DM33
N7GP	6	9,432	131	72	AZ	DM42
NR7T	**6**	**7,700**	**115**	**70**	**UT**	**DM38**
K7PT	6	7,434	132	59	AZ	DM43
K7CW	**6**	**6,950**	**142**	**50**	**WA**	**CN87**
AL1VE	**6**	**5,655**	**96**	**65**	**OR**	**DN02**
KA6BIM	6	3,534	94	38	OR	CN73
K9DR	**6**	**3,105**	**70**	**45**	**WY**	**DN62**
KY7M	6	3,060	68	45	AZ	DM33
N7NW	6	1,701	64	27	WA	CN87
WR7AY	6	1,620	56	30	WY	DN74
K7HP	6	1,134	56	21	AZ	DM33
WA8ZNC	6	1,056	48	22	WA	CN85
NQ7R	6	805	35	23	AZ	DM42
W7TZ	6	770	37	22	OR	CN83
K7III	6	703	39	19	WA	CN87
K7BHM	6	700	35	20	AZ	DM43
W7OXB	6	384	34	12	WA	CN87
WA8ZID	6	338	26	13	AZ	DM33
K7JQ	6	325	26	13	AZ	DM43
K9PY	6	300	21	15	OR	CN94
W7GES	6	242	22	11	AZ	DM33
KE6GFI	6	140	14	10	AZ	DM34
KB9LHT	6	48	14	4	AZ	DM33
W6XI	6	48	8	6	AZ	DM42
KTØP	**6**	**20**	**6**	**4**	**MT**	**DN28**
N9NA	6	6	3	2	AZ	DM33
K7ND	**2**	**550**	**26**	**11**	**WA**	**CN87**
N7NMC	**Q**	**100**	**12**	**10**	**OR**	**CN73**
KE7UQL	**Q**	**72**	**8**	**8**	**NV**	**DN00**
K7ATN	**H**	**39**	**7**	**3**	**WA**	**CN95**
KB8U	**A**	**13,272**	**126**	**84**	**MI**	**EN71**
WA8MCD	A	7,920	119	60	MI	EN72
AA8MA	**A**	**1,196**	**41**	**26**	**OH**	**EN80**
KE8QEP	A	476	24	17	OH	EN91
N8QE	A	390	28	13	OH	EN91
K8BF	A	96	12	8	OH	EN91
WB8WUA	A	48	8	8	OH	EN91
K9NW	**6**	**11,297**	**146**	**79**	**OH**	**EM79**
W3HKK	6	1,600	52	32	OH	EN80
AA8SW	6	1,376	44	32	OH	EM79
AA4R	**6**	**836**	**39**	**22**	**MI**	**EN64**
K7DR	6	810	46	18	MI	EN82
WA8LRW	6	798	40	21	OH	EN91
N8WL	6	770	35	22	OH	EN80
N8PW	6	588	30	21	OH	EN90
KE8RJU	6	527	31	17	MI	EN62
W8KNO	6	240	21	15	OH	EN91
KB8ZR	6	234	21	13	OH	EM79
N5JED	6	180	19	10	OH	EN91
K8DP	6	150	15	10	MI	EN62
KD8VMM	6	70	11	7	OH	EN81
KT8X	6	56	8	7	MI	EN82
N4RA	**6**	**28**	**7**	**4**	**WV**	**FM09**
NS8O	6	15	5	5	OH	EM89
KD8ZEI	2	3,196	50	34	OH	EN81
W5UHQ	**Q**	**1,215**	**47**	**27**	**OH**	**EN80**
K8ZT	Q	192	19	8	OH	EN91
K2DRH	**A**	**101,920**	**415**	**196**	**IL**	**EN41**
K9KLD	A	47,995	276	145	IL	EM58
N4SV	**A**	**17,085**	**171**	**85**	**IN**	**EN61**
W9XT	**A**	**13,608**	**142**	**81**	**WI**	**EN53**
NØAKC	A	8,680	97	70	WI	EN44
KAØWAS	A	8,460	110	60	IN	EN61
KT8O	A	6,318	92	54	IN	EN71
N2BJ	A	4,370	68	46	IL	EN61
KØPG	A	3,318	79	42	IL	EN51
K9MU	A	2,542	46	31	WI	EN44
W9DZ	A	2,211	61	33	IN	EN61
K9DJT	A	1,824	45	32	WI	EN63
W9FF	A	1,008	25	21	IL	EN40
W9DP	A	646	35	19	IL	EN40
WB9HFK	A	224	15	14	IL	EN50
NJ9R	A	190	13	10	IL	EN62
K9QJ	A	140	11	10	IL	EN51
WØUC	A	130	10	10	WI	EN44
NA9RB	**6**	**15,561**	**177**	**91**	**IL**	**EN40**
WB9LWO	6	2,400	67	40	IL	EM49
W9VTD	6	1,620	54	30	IL	EN52
NY1V	**6**	**1,218**	**45**	**29**	**IN**	**EM69**
N9DJ	6	736	33	23	IL	EN52
K9OM	**6**	**704**	**32**	**22**	**WI**	**EN65**
K9CW	6	546	27	21	IL	EN50
K9EEH	6	304	21	16	IL	EN51
WU9D	6	228	19	12	IL	EN61
WA9LEY	6	135	15	9	IL	EN61
W9TA	6	72	10	8	WI	EN63
WO9B	6	35	7	5	WI	EN52
KO4HMB	6	30	6	5	IL	EN61
K9SUL	6	6	3	3	IL	EN50
W9EWZ	**2**	**352**	**17**	**11**	**WI**	**EN52**
KOØA	**Q**	**29,820**	**229**	**105**	**IL**	**EN52**
WB9AYW	Q	25	5	5	IL	EN51
K9PW	**H**	**7,638**	**111**	**57**	**IL**	**EN51**
ACØRA	**A**	**144,904**	**492**	**236**	**IA**	**EN42**
WQØP	**A**	**20,592**	**160**	**99**	**KS**	**EM19**
WØJW	A	19,594	191	101	IA	EN31
KØVG	**A**	**4,664**	**74**	**53**	**MN**	**EN27**
KØAWU	A	3,192	55	42	MN	EN37
WØZQ	A	2,856	58	34	MN	EN34
WØZA	**A**	**1,683**	**53**	**33**	**NE**	**EN00**
AAØAW	A	1,350	39	27	MN	EN36
KAØPQW	A	1,334	41	23	MN	EN33
KEØIZE	A	1,104	35	24	IA	EN41
WØRT	A	1,075	39	25	KS	EM27
W8LYJ	**A**	**819**	**38**	**21**	**CO**	**DN70**
KØSCO	**A**	**589**	**26**	**19**	**MO**	**EM48**
KGØTW	A	475	21	19	MO	EM49
KEØKKD	A	336	20	14	IA	EN31
KBØKQI	A	189	12	9	CO	DM79
W6GMT	A	56	7	7	MN	EN37
WAØLIF	A	48	8	4	MN	EN35
WØZF	A	27	5	3	MN	EN34
WDØBGZ	**6**	**4,060**	**77**	**58**	**NE**	**EN00**
NØPOH	**6**	**2,698**	**71**	**38**	**CO**	**DM79**
KA8MMI	**6**	**2,562**	**64**	**42**	**KS**	**EM28**
WØDTM	**6**	**1,575**	**48**	**35**	**MO**	**EM48**
KCØVDY	6	989	44	23	CO	DM59
KFØM	6	900	38	25	KS	EM17
WØGN	**6**	**546**	**27**	**21**	**IA**	**EN42**
KAØOUV	6	384	24	16	MO	EM38
KBØNES	**6**	**270**	**19**	**15**	**MN**	**EN34**
KØBJ	6	210	17	14	KS	DM99
KNØV	6	120	13	10	MN	EN34
KSØAA	6	56	9	7	KS	EM28
KØKEX	6	30	6	6	MO	EM29
WDØREW	6	25	6	5	MO	EM37
NØJK	6	16	4	4	KS	EM28
ADØH	6	4	2	2	IA	EN32
WE7L	**2**	**988**	**26**	**19**	**CO**	**DM79**
AAØMZ	**2**	**612**	**19**	**17**	**KS**	**EM29**
NØHJZ	**2**	**576**	**24**	**12**	**MN**	**EN34**
KØQEI	2	340	18	10	MN	EN35
NØAT	2	100	10	5	MN	EN34
WBØIXI	**2**	**8**	**2**	**2**	**MO**	**EM29**
WAØMN	**Q**	**3,735**	**71**	**45**	**MN**	**EN33**
						Op: NØUR
WØKI	Q	204	16	12	CO	DM79
NØSUW	Q	84	14	4	MN	EN34
KEØMHJ	**H**	**551**	**21**	**19**	**MO**	**EN30**

Rover

NV4B/R	R	52,752	269	168	MS	6
KG9OV/R	R	39,064	186	152	IL	7
AA5PR/R	R	21,090	188	111	NM	4
N6GP/R	R	16,470	162	90	CA	4
N2SLN/R	R	10,428	100	79	NY	4
W9YOY/R	R	7,018	98	58	IL	2
K9JK/R	R	6,360	81	60	IL	6
KØDAS/R	R	5,642	81	62	IA	6
AC1JR/R	R	4,462	86	46	MA	4
KD8RTT/R	R	3,496	67	46	KS	4
KF2MR/R	R	2,960	51	40	NY	2
N6UTC/R	R	2,448	57	34	CA	3
KØBAK/R	R	1,652	37	28	PA	2
AG6RS/R	R	1,612	49	31	CA	3
WD9EXD/RR		1,518	41	33	MI	5
KA7RRA/R	R	1,479	54	17	WA	4
N9GH/R	R	1,104	29	24	IL	4
K6LMN/R	R	990	35	18	CA	2
KE4WMF/RR		888	37	24	VA	5
WB2SIH/R	R	756	32	21	NY	2
W3DHJ/R	R	504	20	18	CO	4
KD6HOF/R	R	405	28	15	CA	3
ABØYM/R	R	234	16	13	CO	4
KD6EFQ/R	R	228	20	12	CA	2
KI5FIQ/R	R	144	12	12	TX	3
WØETT/R	R	90	11	9	WY	4
N6LB/R	R	88	9	8	WA	2

CANADA

VA3TIC	**A**	**6,292**	**90**	**52**	**ON**	**FN14**
VE3NRT	A	6,084	90	52	ON	FN03
VA2BN	**A**	**5,890**	**96**	**62**	**QC**	**FN36**
VA3IKE	A	5,842	76	46	ON	EN82
VE3RX	A	4,386	78	51	ON	EN96
VE7DAY	**A**	**3,354**	**87**	**39**	**BC**	**CO70**
VA3WB	A	3,010	57	43	ON	FN03
VE3KI	A	2,288	55	44	ON	FN25
VE3SST	A	2,277	50	33	ON	FN04
VA3UAP	A	2,112	47	32	ON	FN14
VE3ELL	A	1,568	38	28	ON	FN04
VE3PJ	A	1,300	54	25	ON	FN14
VE7AFZ	A	1,281	55	21	BC	CN89
VA3RQX	A	840	29	20	ON	FN03
VE3LFS	A	648	23	18	ON	FN04
VA6AN	**A**	**442**	**24**	**13**	**AB**	**DO41**
VE3AJB	A	425	25	17	ON	EN95
VE2OTA	A	325	17	13	QC	FN35
VE2NR	A	266	17	14	QC	FN35
					Op:	VE2DDZ
VE2BAP	A	240	15	15	QC	FN46
VA7DXC	A	192	15	12	BC	CN89
VE6BMX	A	136	12	8	AB	DO33
VE5MX	**A**	**120**	**12**	**12**	**SK**	**DN89**
VA3PAF	A	49	7	7	ON	EN93
VE3AB	A	48	7	6	ON	EN86
VE2HAY	A	40	5	5	QC	FN35
VE3ETE	A	40	8	5	ON	EN86
VE3CYX	A	32	6	4	ON	EN85
VE3JFN	A	27	6	3	ON	EN95
VE3LDY	A	27	6	3	ON	EN95
VA3TSS	A	21	4	3	ON	EN96
VE3IQZ	A	20	4	4	ON	FN04
VE3AC	A	10	3	2	ON	EN96
VE3HZQ	A	4	2	1	ON	EN96
VE7AB	**6**	**774**	**45**	**18**	**BC**	**CN88**
VA7ST	6	589	31	19	BC	DO00
VA3WEB	**6**	**480**	**25**	**20**	**ON**	**FN04**
VO1HP	**6**	**96**	**12**	**8**	**NL**	**GN37**
VE3KP	6	90	10	9	ON	FN04
VE3TM	6	42	7	6	ON	FN25
VE3KG	6	30	6	6	ON	FN24
VA6MA	**2**	**8**	**2**	**2**	**AB**	**DO33**
VA2VT	**Q**	**6,405**	**98**	**61**	**QC**	**FN45**
VA7USD	**Q**	**700**	**37**	**14**	**BC**	**CN88**
VE7AJK	Q	104	14	8	BC	CN88
VE3JO	Q	49	7	7	ON	EN93
VE3EG	Q	9	3	3	ON	FN03
XM3A	**H**	**3,710**	**82**	**35**	**ON**	**EN95**
					Op:	VE3ZF
VA3OGG/RR		**924**	**35**	**22**	**ON**	**3**
VA7OTC/R	**R**	**735**	**32**	**15**	**BC**	**2**
VE3WVA/R	R	440	26	11	ON	3
VE2GT/R	**R**	**99**	**12**	**9**	**QC**	**2**
VE3LDE/R	R	60	7	6	ON	3

COSTA RICA

TI2ALF	**6**	**40**	**8**	**5**	**EJ79**

CUBA

CO3VR	**6**	**4,902**	**88**	**57**	**EL93**
CO2QU	**6**	**4,743**	**96**	**51**	**EL83**

DOMINICAN REPUBLIC

HI8RD	**6**	**3,600**	**76**	**48**	**FK58**
HI8LAM	6	110	11	11	FK58

GUATEMALA

TG9AJR	**6**	**682**	**32**	**22**	**EK44**

MEXICO

XE2JS	**6**	**27,816**	**235**	**122**		**DL68**
6D5C	**6**	**18,768**	**185**	**102**		**DL80**
					Op:	XE1H
6F6F	**6**	**9,648**	**146**	**67**		**EL60**
					Op:	XE1N
XE2OK	**6**	**3,456**	**75**	**48**		**DL95**
XE2TT	6	1,924	53	37		DL95
XE2YWH	**6**	**1,392**	**49**	**29**		**DL92**
XE1GPW	6	1,184	39	32		DL80
6E0J	**6**	**1,073**	**39**	**29**		**EL01**
					Op:	XE1EE
XE1AY	**6**	**900**	**37**	**25**		**DK79**
XE2YWB	**Q**	**4,160**	**83**	**52**		**DL82**
4A2MAX	**M**	**7,020**	**109**	**65**		**DL64**
			Ops:	XE2DLC	XE2JT	XE2N
XE2NL	**M**	**49**	**7**	**7**		**EL05**
		Ops:	XE2KSL	XE2AHN	XE2SK	XE2N

AFRICA

CANARY ISLANDS

EA8DBM	**A**	**94,612**	**399**	**218**	**IL18**

ASIA

ASIATIC TURKEY

TA3AWB	**A**	**8**	**4**	**1**	**KM38**
TA4RC	**6**	**192**	**16**	**12**	**KM59**
TA3MTM	**2**	**20**	**5**	**2**	**KM38**
TA3UMO	2	2	1	1	KM38
TA3E	**M**	**459**	**23**	**17**	**KM38**
				Ops:	TA3E	TB3ALI

CHINA

BG7XWF	**A**	**1,428**	**50**	**28**		**OL99**
BG4HYK	**A**	**476**	**30**	**17**		**PM00**
BH6KWC	**A**	**336**	**20**	**16**		**OM64**
BD6JN	A	255	18	15		OM64
BD4SBN	**6**	**4,947**	**101**	**51**		**PM01**
BG2KAJ	**6**	**1,302**	**64**	**21**		**PN23**
BH4FSD	6	988	38	26		PM01
BG8DIV	**6**	**425**	**26**	**17**		**OM20**
BA5CW	**6**	**336**	**23**	**16**		**PM00**
BA4DL	6	273	21	13		PM01
BG4FQD	6	150	16	10		PM01
BD7LMB	**6**	**120**	**13**	**10**		**OL63**
BG8PM	**6**	**80**	**11**	**8**		**OL36**
BG2KZP	**6**	**42**	**7**	**6**		**PN42**
B7/BH4UMN		**6**	**42**	**7**	**7**	**OL65**
BH6KOK	**6**	**35**	**7**	**5**		**OM64**
BH4BFS	6	24	6	4		PM01
BG2KYH	**6**	**4**	**2**	**2**		**PN23**
BA7LAC	**Q**	**204**	**17**	**12**		**OL63**
BG7IKK	Q	140	14	10		OL63
BG5UZW	**Q**	**12**	**4**	**3**		**OL96**
BH3EMV	**Q**	**9**	**3**	**3**		**OM89**
BG5GDP	**Q**	**9**	**3**	**3**		**PM00**
BD7JIR	**Q**	**4**	**2**	**2**		**OM89**
BG5BAA/R	**R**	**1,512**	**43**	**36**	**4**	

ISRAEL

4X2M	**M**	**22,230**	**190**	**117**	**KM72**
		Ops:	4Z1MS	4X1MM	4Z4AK	4Z5LY

JAPAN

JH9DRL	**A**	**5,888**	**98**	**46**	**PM86**
JQ1NGT	**A**	**1,820**	**100**	**13**	**PM95**
JL3MCM	**6**	**1,944**	**54**	**36**	**PM74**
JH4UTP	**6**	**550**	**28**	**22**	**PM64**
JE2BOM	**6**	**320**	**21**	**16**	**PM84**
7L4IOU	**6**	**250**	**25**	**10**	**PM95**
JE2UFF	**6**	**221**	**17**	**13**	**PM94**
7K4VPV	6	108	12	9	PM95
JO7KMB	**6**	**56**	**8**	**8**	**QM09**
JF2NLH	6	49	7	7	PM84
JP1LRT	6	48	8	8	PM95
JA6GCE	**6**	**30**	**6**	**6**	**PM52**
JK3HFN	**6**	**25**	**5**	**5**	**PM75**
JR3UIC	6	16	4	4	PM74
JO4JKL	**6**	**16**	**4**	**4**	**PM65**
JA6WFM	6	6	3	2	PM52
JI1IKC	6	4	2	2	PM95
JF1RYU	**2**	**3,120**	**120**	**13**	**PM96**
JE2HXL/P	**2**	**816**	**34**	**12**	**PM84**
JH4PUS	**2**	**44**	**11**	**2**	**PM64**
JA1KPF	**Q**	**228**	**14**	**12**	**QM06**
JL3OXR	Q	60	6	5	QM06
8N2TY	**Q**	**48**	**8**	**6**	**PM85**
JA8CEA	**Q**	**24**	**6**	**4**	**QN14**
JH7UJU	**Q**	**21**	**4**	**3**	**QM08**
JF1TEU	**Q**	**16**	**4**	**2**	**QM05**
JR1NKN	**Q**	**10**	**5**	**2**	**PM95**
JK1VUZ	Q	4	2	2	PM95
JO6NZN	**Q**	**1**	**1**	**1**	**PM52**
JJ1WWL	**H**	**3,520**	**115**	**20**	**PM96**
JG3DHN/R	**R**	**3,036**	**60**	**33**	**5**

KAZAKHSTAN

UP4L	**6**	**700**	**29**	**25**	**MO13**
UN3G	**6**	**100**	**10**	**10**	**MN83**
UN7JX	**6**	**81**	**9**	**9**	**NN19**
UN9L	6	6	3	2	MO13
UN8G	6	4	2	2	MN83
UN2E	**6**	**1**	**1**	**1**	**MO52**

KYRGYSTAN

EX8MJ	**6**	**154**	**14**	**11**	**MN72**

KOREA

HL3AMO	**A**	**4,032**	**98**	**42**	**PM36**
HL2AHL	**A**	**160**	**16**	**10**	**PM37**
DS3EXT	A	154	13	11	PM36
HL2ZN	**6**	**1,550**	**52**	**31**	**PM37**
HL2ASZ	6	108	13	9	PM37
DS1TWO	**2**	**140**	**35**	**2**	**PM37**

SAUDI ARABIA

7Z1SJ	**6**	**575**	**25**	**23**	**LL25**

SRI LANKA

4S7JL	**A**	**186**	**17**	**6**	**MJ96**
4S6CPT	A	6	2	2	MJ96

TAIWAN

BU2EO	**6**	**4**	**2**	**2**	**PL05**

THAILAND

E27IHO	**2**	**1,936**	**121**	**8**	**OK03**
HS5NMF	**2**	**66**	**11**	**3**	**OK04**
E25JNR	**Q**	**10**	**5**	**1**	**OK03**
E25CHP	Q	8	4	1	OK03
E24QND	**M**	**6,240**	**120**	**26**	**OK16**
				Ops:	E24QND	E24QNC
E24ZPX	**M**	**4,344**	**181**	**12**	**OK03**
Ops: E24ZPX E25GNL E25LOB E25MAP E25LRA E25HLF E25LBD E25PFE E25GQG HS6NNG						
HSØEDP	**M**	**3,586**	**164**	**11**	**OK04**
Ops: HSØEDP E22FFJ HSØQQB E22KKO E22EEO						
HS1AN	M	2,896	181	8	OK03
Ops: E22UYH E24PCN E25ETT E25CHO E25ANG						
HS1AB	**M**	**1,736**	**124**	**7**	**OK03**
Ops: E25FGL E22STE EØKDD E22HUF E24NLR E29MU E24UTB HS1BLE HS1GRL E21NJJ E21EEP E24RWE						
E21AK	**M**	**240**	**24**	**5**	**OK04**
Ops: E24SMC E2ØSJC HS3UBW E22DXH						
E29AE	**M**	**34**	**17**	**1**	**NJ99**
Ops: HS8MOM E25ARD E25GEP						

WEST MALAYSIA

9W2W	**A**	**36**	**6**	**4**	**OJ05**
9W2VGR	**A**	**33**	**7**	**3**	**OJ06**
9W2EYR	**Q**	**36**	**6**	**4**	**OJ05**
9M2CDX	**Q**	**2**	**1**	**1**	**OJ11**
9M4CRX	**M**	**60**	**8**	**5**	**OJ05**
Ops: 9W2XIO 9W2LDB 9W2EXL 9W2NNA 9W2ILR 9W2FXC						

EUROPE

AUSTRIA

OE3MDB	**2**	**1,326**	**39**	**17**	**JN88**
OE3KAR/P	**Q**	**270**	**15**	**9**	**JN86**

BELGIUM

ON5JT	**A**	**1,984**	**40**	**32**	**JO10**

BOSNIA AND HERZEGOVINA

E74SL	**A**	**7,260**	**102**	**60**	**JN94**
E7ØAA	**H**	**4,068**	**69**	**36**	**JN93**
E74BYZ	**M**	**4,576**	**91**	**52**	**JN84**
Ops: E73RB E73CV E76MD E76SU						

BULGARIA

LZ2CH	**Q**	**56**	**8**	**7**	**KN34**
LZ3DP	**6**	**9**	**3**	**3**	**KN32**

CROATIA

9A2VX	**6**	**609**	**29**	**21**	**JN75**
9A1AR	**2**	**3,240**	**60**	**27**	**JN75**
					Op:	9A2AR
9A1I	**M**	**3,510**	**71**	**26**	**JN85**
				Ops:	9A9I	9A7IQG

CZECH REPUBLIC

OK4DJ	**2**	**2,844**	**79**	**18**	**JN89**
OK5SE	**2**	**2,166**	**57**	**19**	**JN89**
OK1RDO	**M**	**31,230**	**197**	**90**	**JN69**
		Ops:	OK1DC	OK1HRD	OK1NMJ	

DENMARK

OZ6OM	**Q**	**12**	**4**	**3**	**JO55**

ENGLAND

G4OED	**A**	**3,815**	**63**	**35**	**IO91**

M1VPN	6	132	12	11	IO80
GØDDZ	6	1	1	1	JO02
M5W	Q	2,420	58	44	IO80
					Op: MØHMJ
M7SPS	Q	629	37	17	IO92
G1E	M	2,482	52	34	JO00
					Ops: 2EØJAW GØKVF GØPOI GØTJH G1FBH G1TPA G6RZA G8KBI MØCFO M6HWM M7ABT

FRANCE

F4IVC	A	2,652	48	39	JN05
F5DE	A	220	12	10	JN05
TM7B	6	468	26	18	JN38
					Op: DL7BC
FØFEK	Q	224	14	8	JN19

GERMANY

DH6DAO	A	6,136	78	52	JO41
DK2OY	6	160	16	10	JO44
DL1EAL	6	63	9	7	JO31
DK7XX	6	20	5	4	JO53
DF4WO	6	9	3	3	JO30
DG3AL	6	4	2	2	JN37
DL1DBR	2	598	23	13	JO41
DK7PA	Q	240	12	10	JO41
DJ3EI	Q	28	7	4	JO62
DL2TM	Q	16	4	4	JO52
DH5MM	Q	1	1	1	JO52

GREECE

SX2I	6	24,592	216	116	KN10
					Op: SV2JAO
SV1NZX	6	12,282	139	89	KM17
SV2AEL	6	7,875	108	75	KN10
SV3AWG	6	63	9	7	KM08
SV3AUW	Q	4,104	76	54	KM17

HUNGARY

HG6Z	M	58,548	287	123	JN97
					Ops: HA6VV HG6IA HG6WF

IRELAND

EI6JK	6	255	17	15	IO53

ITALY

I1JTQ	A	13,176	128	72	JN34
IC8TEM	A	9,040	96	80	JN70
IK7LMX	A	7,076	94	61	JN80
IW1CHX	A	308	16	14	JN35
IZ5EME	6	10,556	119	91	JN52
IV3KKW	6	4,218	74	57	JN66
IK7IMO	6	1,380	47	30	JN90
IT9CKA	6	182	14	13	JM68
IN3TWX	6	99	11	9	JN56
IK3SWB	6	49	7	7	JN66
IT9BLB	6	30	6	6	JM68
IZ7UMS	2	4,672	74	32	JN81
IZ5HQB	Q	832	32	26	JN53
IR9K	M	82,256	369	194	JM67
					Ops: IT9DSZ IT9KXK IT9IVU IT9RJE IT9BXR IT9PPG IT9ATF IT9WDC IT9YMM
IQ1LA	M	286	16	11	JN44
					Ops: IU1LCU IZ1KGY

LATVIA

YL2QG	6	272	17	16	KO06
YL2LW	2	60	6	5	KO26
YL7X	M	12,231	118	81	KO07
					Ops: YL1ZF YL2LY

LITHUANIA

LY5W	6	1,610	46	35	KO15
LY1R	6	156	14	12	KO14

MONTENEGRO

4O6BLM	M	75,543	336	169	JN92
					Ops: 4O5JD 4O6ZD 4O3BUP 4O6LEE 4O4GIG

NETHERLANDS

PA8KM	A	6,688	88	44	JO32
PA5WT	6	240	16	15	JO22
PE1OBL	2	32	4	4	JO21

POLAND

SQ2EEQ	A	90	9	9	JO94
SP5UFK	6	28	7	4	KO02
SP2HHX	2	176	11	8	JO94
SQ1FYY	2	2	1	1	JO73
SP9SDF	Q	1,980	52	20	JN99

PORTUGAL

CT1END	Q	48	8	6	IM58

ROMANIA

YO5AVN	A	4,950	72	50	KN17
YO2NAA	6	3,450	76	46	KN05
YO9HP	6	288	18	16	KN35
YR2X	6	210	15	14	KN06
					Op: YO2LEA
YO3JW	6	99	11	9	KN35
YO5PUV/P	6	9	3	3	KN16
YO5LD	2	7,000	100	35	KN05
YO2LSP	2	4,758	61	39	KN05
YO2LLZ	2	4,536	81	28	KN05
YO2GL	2	1,054	32	17	KN05
YO9CWY	2	280	14	10	KN35
YO9CLG	2	64	8	4	KN35
YO6SSB	Q	225	16	15	KN27

SARDINIA

ISØBSR	6	28,495	209	139	JM49

SCOTLAND

GM5G	M	2,242	41	38	IO87
					Ops: 2MØSQL MMØHVW GM1TGY MMØGYX GM6PLQ

SERBIA

YU5R	6	306	18	17	KN04
					Op: YT2AAA
YT2TNT	6	4	2	2	KN04

SLOVAK REPUBLIC

OM7ANT	2	2,730	65	21	JN98

SLOVENIA

S56P	2	22,620	195	58	JN76

SPAIN

EA5IEA	6	621	27	23	IM97
EA1HRR	2	3,080	55	28	IN83
EC4AA	Q	6	3	3	IN80

SWEDEN

SF6F	A	7,497	87	63	JO67
SM5EPO	A	609	24	21	JP80
SM3PZG	6	208	16	13	JP93
SM7I	2	112	8	7	JO65

SWITZERLAND

HB9BAS	6	702	29	26	JN37

OCEANIA

INDONESIA

YE3DFB	A	60	11	3	OI62
YC3BHC	A	6	3	1	OI62
YB2ECQ	A	4	2	2	OI52
YB2MDU	6	1,488	48	31	OI53
YC3FTY	2	56	14	2	OI62
YD3AVN	2	44	11	2	OI52
YF3CXB	2	44	11	2	OI52
YD3RAN	2	36	10	2	OI62
YC3GEV	2	32	8	2	OI62
YC3RJL	2	28	7	2	OI62
					Op: YD3RJL
YD3DBG	2	24	6	2	OI62
YB3BAR	2	6	3	1	OI62
YB3BX	2	6	3	1	OI62
YB3GET	2	6	3	1	OI62
					Op: YB3BAR
YE3DKB	2	6	3	1	OI62
					Op: YB3BAR
YF3DBR	2	6	3	1	OI62
					Op: YB3BAR
YD3BFV	Q	52	13	2	OI52
YF3GDE	Q	48	13	2	OI62
YC3PHR	Q	16	10	1	OI62
YG3CMS	Q	10	5	1	OI62
YC3AHD	H	48	13	2	OI62
7E3E	M	44	12	2	OI62
					Ops: YF3CYT YF3CYU YF3CYS YC3GFN YC3NHW
YD3AXD	R	28	8	2	1

SOUTH AMERICA

ARGENTINA

LU9DO	A	46	19	2	GF05
LU1BJW	A	22	7	2	GF05
LU2BN	A	12	4	2	GF05
LU2DX	6	11	11	1	GF05

BONAIRE

PJ4MM	6	182	14	14	FK52

BRAZIL

PY2AE	A	637	32	13	GG66
PV2Y	A	224	18	7	GG66
					Op: YV6CR
PY2WOT	A	182	17	7	GG76
PY2EU	A	100	12	5	GG76
PY3LX	A	88	12	4	GG40
PU2LFU	A	84	10	6	GG76
PY3TR	A	84	12	4	GF49
PU2USK	A	78	8	6	GG76
PU3DRM	A	63	11	3	GG40
PU4MMZ	A	60	6	6	GH80
PU2UAF	A	56	11	4	GG66
PU3YST	A	44	11	2	GG40
PU3DCC	A	24	6	2	GG40
PU1WRC	A	12	4	2	GG97
PY3DCC	6	4	3	2	GG49
PY2GTA	6	3	3	1	GG66
PU3MIP	2	170	17	5	GF49
PY2FSR	2	100	10	5	GG56
PU2OXB	2	64	8	4	GG56
PU3LMZ	2	48	12	2	GG40
PY3IE	2	48	12	2	GG40
PY3KT	2	48	12	2	GF49
PU3PIL	2	40	10	2	GF49
PU3SBL	2	36	9	2	GG40
PY5EK	2	32	4	4	GG43
PU3AFG	2	28	7	2	GG40
PY2EBD	2	24	6	3	GG67
PU3POE	2	24	6	2	GG40
PU1JSV	2	12	3	2	GG87
PY2QB	2	8	3	2	GG77
PU3RIN	2	8	2	2	GG30
PY3TL	2	8	2	2	GG30
PP5IP	2	2	1	1	GG53
PY2MIA	2	2	1	1	GG66
PY2CER	Q	72	9	4	GG67
PY2AD	Q	52	7	4	GG67
PU3MLN	Q	32	10	2	GG40
PY2TDB	H	16	4	2	GG66
PV2B	M	115	13	5	GG66
					Ops: PY2MIG PY2ANY PU2VJI

TRINIDAD & TOBAGO

9Y4D	A	690	27	23	FK90

CHECK LOGS

9A5ST, AE3T, E25OOO, EA3AYQ, EA3CX, EW1CD, K8YC, KC1RET, KG4QEN, PU2MLO, PY2DN, UN7ECA, XE1HG, YO5OHO.