

## IARU Calendar

No. 182      15 June 2001

### **ITU Disaster Communications Documents Approved**

The IARU is pleased to announce the approval by the International Telecommunication Union Development Sector (ITU-D) of two landmark documents related to amateur radio disaster communications in developing countries. These documents represent the culmination of two years of work by the IARU and ITU-D Study Group 2 chaired by Nabil Kisrawi of Syria.

The first is Recommendation ITU-D 13, Effective utilisation of the amateur services in disaster mitigation and relief operations. It recommends that administrations include the amateur services in their national disaster plans, reduce barriers to effective use of the amateur services for disaster communications, and develop memoranda of understanding (MoU) with amateur and disaster relief organizations. ITU Telecommunication Development Bureau Director Hamadoun I. Touré announced the approval of Recommendation ITU-D 13 on 12 April. It will be available in English, French, and Spanish from the ITU bookshop at [www.itu.int](http://www.itu.int).

The second is the Disaster Communications Handbook for Developing Countries. This was a joint effort of the IARU and the United Nations Office for the Coordination of Humanitarian Affairs (OCHA) with contributions from L.M. Ericsson (Sweden), Volunteers in Technical Assistance (VITA) (USA), and others. The Handbook, to be published in English, French and Spanish, will have three parts devoted to policy, operational and technical considerations of disaster communications. It is one of a series of Handbooks being produced by the ITU-D under the coordination of Maurice Ghazal of Lebanon for use by developing countries.

The Handbook will be available shortly in English from the ITU bookshop. French and Spanish language editions are to be available soon after.

Director Touré was most gracious in his closing remarks to the September 2000 meeting of ITU-D Study Group 2. "My sincere thanks go once again to all those who have contributed to the production of these handbooks," he said. "IARU has made a particular contribution to the production of a Recommendation and of the Handbook on disaster communications, and for this I should like to thank IARU very much indeed."

The IARU has been represented in ITU-D Study Group 2 by President Larry Price, W4RA.

### **Pitcairn Island ARA Applies for IARU Membership**

The Pitcairn Island Amateur Radio Association (PIARA) has applied for membership in the IARU. The Directors and the Secretary of IARU Region 3 have examined the application in the light of the relevant provisions of the IARU Constitution and Bylaws, as well as of the relevant provisions of the Constitution of IARU Region 3. They have found the application to be in order and have made a favorable finding with respect to the qualifications of the applicant society.

PIARA is an independent non-profit organization to promote and develop amateur radio friendship, technical knowledge, and communication technology, providing public service and furthering the public interest, plus fostering international goodwill. It has 10 members, representing the entire population of resident amateur operators. PIARA reports that there are 23 amateurs licensed to operate including several temporary residents and visitors, plus one club station. Amateur Radio has special significance on Pitcairn Island, as it continues to provide the main communications link to the outside world.

Pitcairn Islands (including Pitcairn, Henderson, Ducie, and Oeno Islands) is an overseas territory of the United Kingdom. The application for IARU membership by PIARA is supported by the Radio Society of

Great Britain. Due to transport difficulties from and to Pitcairn, PIARA has requested that the RSGB continue to represent PIARA at IARU Region 3 Conferences.

The officers include Tom Christian, VP6TC, President; Dennis Christian, VP6DR, Treasurer; Betty Christian, VP6YL, Secretary; and Kan Mizoguchi, VP6BK, IARU Liaison. The contact information for the IARU Liaison is: 4-5-3 Sakuragaoka, Tama-shi, Tokyo 206-0013, Japan; email [kanmiz@attglobal.net](mailto:kanmiz@attglobal.net); telephone +81 423 71-5886; fax +81 423 89-3824. The direct mailing address is: P.O. Box 88, Adamstown, Pitcairn Island, South Pacific Ocean via New Zealand;

Therefore, in compliance with the Bylaws pertaining to applications for membership the following proposal is presented to member societies for consideration:

### **Proposal No. 232**

The Secretary of IARU Region 3 has forwarded to the Administrative Council an application for IARU membership submitted by the Pitcairn Island Amateur Radio Association. The Directors and Secretary of Region 3 have examined the application and have found it to be in order, and so have made a favorable finding with regard to the application. Therefore, in accordance with Bylaw 3, it is proposed that the Pitcairn Island Amateur Radio Association be elected to membership.

A vote sheet for Proposal 232 and a return envelope are enclosed. The closing date for receipt by the International Secretariat of ballots on this proposal is five months from the date of issuance of this Calendar, or 15 November 2001.

### **IARU Prepares for WRC-03**

The principal focus of your IARU officers is on preparing for the next ITU World Radiocommunication Conference, WRC-03, scheduled for four weeks beginning on 9 June 2003.

For the Amateur Services the most important item on the conference agenda is item 1.23, to consider realignment of the allocations around 7 MHz. Preparatory work on this item is taking place in ITU Radiocommunication Sector (ITU-R) Working Parties 8A and 6E. IARU representatives are participating actively in both, along with representatives of IARU member-societies who have been named to the national delegations of their administrations. In support of their work the IARU has published an information paper in the form of a color booklet, Amateur Service Spectrum Requirements at 7 MHz." Two copies of this booklet were sent to each member-society on 11 May for their use with their administrations. Limited quantities of additional copies are available for official use. Interested amateurs may view or download the document on the Web at <http://www.iau.org/7-MHz-Spectrum.pdf> (678 kB PDF file).

Another important agenda item is item 1.7, to consider possible revision of Article S25 (the regulations pertaining specifically to the amateur and amateur-satellite services) and possible consequential changes to the terms and definitions in Article S1. This item also includes a review of the provisions of Article S19 concerning the formation of call signs in the amateur services in order to provide flexibility for administrations. Preparatory work is taking place in Working Party 8A, also with IARU participation.

Several other agenda items have the potential to affect the Amateur Services and require careful monitoring. For example, agenda item 1.36 is to examine the adequacy of HF broadcasting frequency allocations from about 4 MHz to 10 MHz. This has implications not only for the 7 MHz band but also for the upper portion of the 3.5 MHz band. Agenda item 1.38 is to consider provision of up to 6 MHz to the Earth exploration satellite service in the band 420-470 MHz; the proponents are known to be particularly interested in 432-438 MHz. Agenda item 1.20 is to consider additional allocations to the so-called Little LEO satellites below 1 GHz. Agenda item 1.3 is to consider globally or regionally harmonized bands for use by public protection agencies. The preparations for these and other agenda items are being watched closely by IARU volunteers and International Secretariat staff, with meetings being attended as required.

WRC-03 preparations are not confined to the ITU-R Working Parties. The regional telecommunications organizations are playing a greater role than ever before. IARU Region 1 is actively participating in CEPT, Region 2 is actively participating in CITELE, and Region 3 (with assistance from IARU Vice President David Wardlaw, VK3ADW) is actively participating in APT.

### **Region 2 Prepares for Conference**

The officers, directors, and member-societies of IARU Region 2 are preparing for the 14th General Assembly, to be held on 1-5 October in Guatemala City. In addition, an Extraordinary General Assembly will be held on 30 September for the purpose of considering proposals for review of the By-Laws of the Region.

Any member-societies in Region 2 (North, Central, and South America) that have not yet submitted their requests for hotel reservations should do so immediately, as the deadline for the special conference rate is 3 July 2001. Contact the Organizing Committee, Club de Radioaficionados de Guatemala (CRAG), at [iaru-r2@guate.net](mailto:iaru-r2@guate.net) or [crag@guate.net](mailto:crag@guate.net).

A meeting of the IARU Administrative Council is scheduled to take place in Guatemala City on 6-8 October.

### **IARU Sends ITU Greetings on World Telecommunication Day**

It is traditional for the IARU Secretary to send greetings and congratulations to the ITU Secretary-General on the occasion of World Telecommunication Day, 17 May. This year the following letter was sent to Mr. Yoshio Utsumi:

Dear Mr. Secretary-General:

Please accept greetings and congratulations on World Telecommunication Day from the world's three million radio amateurs.

This year's theme, "The Internet: challenges, opportunities and prospects," captures one of the principal focal points of recent discussions within the International Amateur Radio Union. Radio amateurs were the first worldwide community of individuals to be bound together by electronic communications. Since the opening of the short waves in the 1920s there have been no physical limits on the ability of radio amateurs to communicate with one another across geographic, political, cultural, and economic barriers. Radio amateurs naturally became early adopters of the Internet and use it daily to share their knowledge in pursuit of greater understanding of the remarkable natural phenomena that make radio communication possible.

The IARU looks forward to continuing our work with ITU members and staff to help close the "digital divide." Amateur radio provides unique opportunities for students to gain hands-on experience with telecommunications at very low cost. Amateur radio also retains a unique ability to bridge the gaps in telecommunications that so often develop in times of natural disaster -- gaps that become ever more disruptive as society becomes ever more dependent on telecommunications.

Best wishes for another successful observance of this significant anniversary.

### **Society Annual Reports Due**

It is time for member-societies to submit their annual reports. Please complete the enclosed form and return it to the International Secretariat as soon as possible.

The enclosed Status Summary for 2000 shows that a number of member-societies did not complete forms last year. It is important that we have up-to-date information on amateur radio in each country so

we may report an accurate picture of progress in amateur radio worldwide. Thank you for your cooperation.

Sincerely,

David Sumner, K1ZZ  
Secretary

Enclosures:Vote sheet, Proposal No. 232  
Society Annual Report, 2001

2 Return Envelopes  
Status Summary of Radio Amateurs and Amateur Stations of the World, 2000

**STATUS SUMMARY OF RADIO AMATEURS & AMATEUR STATIONS OF THE WORLD  
2000**

Region 1 Data Country Year	Notes	Club Stations	Individual Stations	Total Stations	Total Operators	Licensed Members	Society Members
ZA	Albania	1	16	17	16	16	16
00							
7X	Algeria	7	60	67	60	60	160
00							
C3	Andorra	2	94	96	94	94	143
00							
D2	Angola		5	5	5	-	-
97	N O						
EK	Armenia		60	60	?	-	-
93	N O						
OE	Austria	328	6214	6542	6214	3685	3709
00							
4J	Azerbaijan		100	100	?	-	-
93	N O						
A9	Bahrain	1	53	54	53	53	53
94	O						
EU	Belarus	42	1361	1403	1359	301	321
00							
ON	Belgium	149	5295	5444	5295	2709	3179
00							
TY	Benin		5	5	5	-	-
97	N O						
T9	Bosnia	53	1705	1758	1758	1375	1758
00							
A2	Botswana	1	18	19	18	8	8
00							
LZ	Bulgaria	244	3750	3994	4950	537	543
98							
XT	Burkina Faso	2	6	8	6	5	40
95							
9U	Burundi				Information being sought		
N							
TJ	Cameroon		20	20	20	-	-
97	N O						
D4	Cape Verde		4	4	4	-	-
97	N O						
TL	Central Africa		20	20	20	-	-
97	N O						
TT	Chad		10	10	10	-	-
97	N O						
D6	Comoros		10	10	10	-	-
97	N O						
9Q	DPR Congo		5	5	5	-	-
97	N O						
TN	RO Congo		5	5	5	-	-
97	N O						
TU	Cote d'Ivoire	3	500	503	500	150	160
00							

9A	Croatia	85	1752	1837	1410	1752	1806
00							
5B	Cyprus	3	578	581	578	93	95
00							
OK	Czech Rep.	427	6720	7147	7086	3946	4803
00							
OZ	Denmark	?	10060	10060	10060	3500	4570
00							
J2	Djibouti	1	6	7	6	6	6
98							
SU	Egypt	1	20	21	43	12	12
00							
3C	Eq. Guinea		5	5	5	-	-
97	N O						
E3	Eritrea			Information being sought			
N							
ES	Estonia	14	620	634	1000	362	362
00							
ET	Ethiopia	1	6	7	23	17	47
98							
OY	Faroe Is.	3	90	93	90	40	42
99							
OH	Finland	200	5900	6100	5900	4543	5135
00							
Z3	FYR Macedonia	32	168	200	620	200	335
99							
F	France	610	18500	19110	18500	8500	10600
97							
TR	Gabon	2	35	37	35	25	27
00							
C5	Gambia	1	19	20	19	12	12
95	O						
4L	Georgia		250	250	?	-	-
93	N O						
DL	Germany	2485	79666	82151	79666	50794	53464
00							
9G	Ghana	2	30	32	30	30	30
99							
ZB	Gibraltar	1	12	13	12	12	13
00							
SV	Greece	7	2952	2959	2952	987	1251
97							
3X	Guinea		5	5	5	-	-
97	N O						
J5	Guinea-Bissau		5	5	5	-	-
97	N O						
HA	Hungary	200	8420	8620	9000	2055	2246
00							
TF	Iceland	4	140	146	140	108	133
97							
YI	Iraq	1	80	81	80	80	80
98							
EI	Ireland	50	1658	1708	1658	823	932
98							
4X	Israel	52	1225	1277	1225	650	750
98							

I	Italy	30000	30000	30000	16000	22200
93						

Region 1 Data Country Year	Notes	Club Stations	Individual Stations	Total Stations	Total Operators	Licensed Members	Society Members
JY 95	Jordan O	8	133	141	133	133	133
UN 93	Kazakhstan N O		550	550	?	-	-
5Z 00	Kenya	2	42	44	37	33	79
EX 93	Kyrgyzstan N O		80	80	?	-	-
9K 98	Kuwait	1	126	127	126	122	128
YL 99	Latvia	21	194	215	190	95	98
OD 00	Lebanon	1	205	206	205	36	38
7P 99	Lesotho	1	10	11	13	13	14
EL 98	Liberia	1	7	8	17	17	44
5A 99	Libya N O	1	0	1	?	-	-
HB0 00	Liechtenstein	1	14	15	16	14	15
LY 98	Lithuania	61	810	871	810	380	385
LX 00	Luxembourg	57	525	582	525	361	386
5R 97	Madagascar N O		20	20	20	-	-
7Q 97	Malawi N O		20	20	20	-	-
TZ 95	Mali		23	23	23	23	23
9H 98	Malta	3	470	473	470	92	102
5T 97	Mauritania N O		20	20	20	-	-
3B 00	Mauritius	-	41	41	41	28	37
ER 98	Moldova	25	192	217	192	71	76
3A 95	Monaco	2	63	65	63	26	26

JT 98	Mongolia	3	19	22	19	77	189
CN 98	Morocco	1	175	176	391	391	263
C9 95	Mozambique	-	50	50	50	25	25
V5 97	Namibia	1	88	89	88	39	39
PA 00	Netherlands	191	14529	14720	14529	8181	10271
5U N	Niger			Information being sought			
5N 00	Nigeria	70	88	158	158	158	428
LA 00	Norway	210	5302	5512	5302	2600	2748
A4 00	Oman	2	94	96	94	94	126
SP 00	Poland	?	?	16000	16000	2800	2800
CT 99	Portugal	12	4200	4212	4200	1600	2100
A7 93	Qatar	-	21	21	21	21	40
YO 99	Romania	350	3500	3850	3500	700	1600
R 93	Russia	?	?	38000	38000	4000	4000
9X 97	Rwanda N O		20	20	20	-	-
T7 00	San Marino	1	30	31	50	25	25
S9 97	Sao Tome N O		5	5	5	-	-
HZ 97	Saudi Arabia N O	4	10	14	?	-	-
6W 00	Senegal	1	41	42	41	41	41
S7 97	Seychelles N O		10	10	10	-	-
9L 95	Sierra Leone O	1	36	37	36	20	?
OM 00	Slovakia	100	930	1030	930	930	1920
S5 00	Slovenia	265	6500	6765	6500	3945	4245
T5 N	Somalia			Information being sought			
ZS 94	South Africa	51	6000	6051	6000	2433	3028
EA 99	Spain	300	58700	59000	58700	13964	15429
ST 97	Sudan N O		5	5	5	-	-
3DA 95	Swaziland	1	20	21	56	48	51



SM	Sweden	699	10817	11516	10817	5677	5897
97							
HB	Switzerland	-	5500	5500	5500	3732	4382
98							
YK	Syria	1	6	7	9	12	18
00							
EY	Tajikistan	5	48	53	48	20	20
00							
5H	Tanzania	4	59	63	173	28	63
99							
5V	Togo		10	10	10	-	-
97	N O						
3V	Tunisia	2	0	1	20	20	60
00	O						

Region 1	Club	Individual	Total	Total	Licensed	Society	
Data							
Country	Stations	Stations	Stations	Operators	Members	Members	
Year Notes							
TA	Turkey	35	1190	1225	1200	420	1055
97							
EZ	Turkmenistan	1	18	19	19	19	19
00							
5X	Uganda		20	20	20	7	8
95							
UR	Ukraine	1223	17265	18488	17265	730	730
00							
A6	UAE		10	10	10	-	-
97	N O						
G	UK	1202	57224	58426	58426	23670	27172
00							
UJ	Uzbekistan		350	350	?	-	-
93	N O						
HV	Vatican	4	0	4	?	-	-
97	N O						
4W	Yemen						
N							
YU	Yugoslavia	71	354	425	354	336	354
00							
9J	Zambia	-	40	40	45	9	9
99							
Z2	Zimbabwe	1	96	97	96	66	76
99							
Total in Region 1				449176	442193	181822	209856
00				451000	441000	187000	215000
99							

98	436000	441000	191000	224000
97	416000	420000	191000	233000
96	410000	414000	193000	241000
95	390000	406000	198000	245000

Region 2 Data Country Year	Notes	Club Stations	Individual Stations	Total Stations	Total Operators	Licensed Members	Society Members
VP2 99	Anguilla	1	8	9	8	8	15
V2 90	Antigua O		20	20	20	10	15
LU 99	Argentina	204	16889	17093	16889	2685	2783
P4 00	Aruba	1	78	79	78	40	41
C6 90	Bahamas O		10	10	10	10	15
8P 96	Barbados O		150	150	150	50	60
V3 96	Belize N O		50	50	50	-	-
VP9 95	Bermuda	-	90	90	90	80	89
CP 92	Bolivia	14	1385	1399	1385	1144	2543
PY 97	Brazil	425	32053	32478	32053	9437	9808
VP2 00	Br. Virgin	-	7	7	6	7	7
VE 00	Canada	1420	47464	48884	44024	6355	6500
ZF 97	Cayman Is.	6	68	74	68	65	68
CE 93	Chile	30	7054	7084	7054	800	800
HK 99	Colombia	22	6500	6522	6500	1100	1100
TI 92	Costa Rica	14	937	951	937	205	250
CO 97	Cuba	153	1870	2023	1870	1870	3197
J7 90	Dominica O	2	70	72	70	35	90
HI 92	Dominicana	12	2354	2366	2354	714	714
HC 99	Ecuador	23	2006	2029	2006	331	341
YS 98	El Salvador	2	703	705	703	235	237

J3	Grenada	1	40	41	168	55	72
93							
TG	Guatemala	1	386	387	386	152	152
98							
8R	Guyana	3	50	53	50	25	25
95							
HH	Haiti	1	100	101	100	25	25
95							
HR	Honduras	3	298	301	298	158	158
00							
6Y	Jamaica	1	84	85	84	84	94
98							
XE	Mexico	?	?	7059	7059	130	130
00							
VP2	Montserrat	1	92	93	92	62	62
97							
PJ	Neth. Antilles	1	60	61	60	55	78
90	O						
YN	Nicaragua	1	564	565	564	92	92
94							
HP	Panama	19	1929	1948	2024	749	751
00							
ZP	Paraguay	15	5048	5063	5085	763	794
99							
OA	Peru	27	3080	3107	3080	537	607
95							
PZ	Suriname	1	99	100	93	45	45
00							
V4	St. Kitts		40	40	40	-	-
96	N O						
J6	St. Lucia		40	40	40	-	-
96	N O						
J8	St. Vincent		30	30	30	-	-
96	N O						
9Y	Trinidad	7	445	452	445	220	250
00							
VP5	Turks		15	15	25	25	85
93							
W	USA	7055	679864	686919	679864	148529	152082
00							
CX	Uruguay	11	3980	3991	3980	418	426
95							
YV	Venezuela	32	10600	10632	10600	1000	1490
00							
	Total in Region 2			843178	830492	178305	186091
00							
				842724	833278	180000	187000
99							
				847000	838000	183000	191000
98							
				842000	840000	196000	204000
97							
				837000	835000	212000	219000
96							
				807000	807000	205000	217000
95							

Region 3 Data Country Year	Club Stations Notes	Individual Stations	Total Stations	Total Operators	Licensed Members	Society Members
YA	Afghanistan					
N						
VK	Australia	388	15328	15716	15328	4449
00						4557
S2	Bangladesh	1	28	29	28	23
99						54
A5	Bhutan	1	0	1	?	-
97	N O					-
V8	Brunei	2	15	17	15	15
99						
XU	Cambodia					
N						
B	China	150	900	1050	800	900
00						8400
BV	Chinese Taipei	49	24324	24373	68692	1058
99						1264
VR2	Hong Kong	12	1461	1473	1508	175
99						180
3D2	Fiji	2	15	17	15	15
99						
FO	Fr. Polynesia	2	172	174	172	50
93						72
VU	India	81	10598	10679	10679	486
00						1217
YB	Indonesia	358	27815	28173	27815	27815
97						
EP	Iran		10	10	10	-
97	N O					-
JA	Japan	?	?	1296059	1296059	133841
99						134493
T3	Kiribati		20	20	20	-
97	N O					-
P5	DPR Korea					
N						
HL	RO Korea	2885	54837	57722	141000	13621
00						17833
XW	Laos	2	0	2	?	-
96	N O					-
9M	Malaysia	9	381	390	381	330
99						421
8Q	Maldives		5	5	5	-
97	N O					-
V7	Marshall Is.	1	10	10	10	-
97	N O					-
V6	Micronesia		10	10	10	-
97	N O					-
XZ	Myanmar					
N						
C2	Nauru	1	5	5	5	-
97	N O					-
9N	Nepal	1	10	10	10	-
97	N O					-

FK 99	New Caledonia	3	130	133	130	25	32
ZL 00	New Zealand	122	5464	5586	5464	2770	3012
AP 99	Pakistan	9	214	223	214	58	258
P2 00	PNG	3	95	98	95	17	17
DU 00	Philippines	25	4000	4025	4000	700	700
9V 00	Singapore	-	95	95	95	58	71
H4 00	Solomon Is.	1	6	7	6	7	7
4S 94	Sri Lanka O	3	200	203	200	75	150
HS 99	Thailand	74	50914	50988	141241	469	469
A3 98	Tonga		8	8	15	15	15
T2 97	Tuvalu N O		2	2	2	-	-
YJ 90	Vanuatu O	1	25	26	25	20	24
3W 00	Vietnam N	4	8	12	23	23	107
5W 98	Western Samoa		15	15	15	11	15

Total in Region 3 00				1497366	1714087	187026	201213
99				1491000	1703000	185000	198000
98				1349000	1464000	192000	204000
97				1463000	1517000	205000	221000
96				1459000	1514000	206000	222000
95				1434000	1434000	279000	303000

Data	Total Stations	Total Operators	Licensed Members	Society Members
Year				
Total Worldwide 00	2789720	2986772	547153	597160
99	2784000	2977000	552000	600000
98	2632000	2743000	566000	619000
97	2721000	2777000	592000	658000

96	2707000	2763000	612000	682000
95	2630000	2646000	681000	764000
90	1974000	1967000	590000	724000
88	1744000	1799000	559264	805664
85	1511000	1489000	450000	738000
84	1378000	1381557	450000	781017
83	1800000?	1380000	449000	769000
80	1152000	1134000	435000	720000
75	737000	737000+	267000	524000
70	525000	525000+	199000	408000
65	399000	399000+	154000	291000

Keys N: Country with no active IARU member society  
O: Information from sources other than the country's IARU member society