VE3CRK Ralph Day 454 Holcan Ave. Oshawa, ON T.1G 5X6

TEUR

DRC/91 NSARC

**SPARKS** 

OSHAWA ONT.L1H 7L

President	Richard Button	VE3RJB	725-7150
Secretary	Fred Bengel	VE3TIG	576-4839
Treasurer	greg Schatzmann	VE3GJS	576-4655
Prog. Director	Peter Johns	VESWWZ	723-9049
Vice President	Margaret Jeffery	VE3BNN	725-1238
Registrar	Keith Wyard-Scott	VE3GDF	723-5758
Special Events	Ralph Day	VE3CRK	576-8738
Get Well Cards	Colin Bell	VE3CEU	723-7842
2 Meter Net	Roy Miller	VESAAF	852-5447
Lists & Labels	Paul Dale	VESLHZ	434-6741
Course Instructor	Rick Gibson	VESASH	434-2886
Auditor	Harry Westwood	VE3QG	683-5104
Bulletin Editor	Victor Doty	VESLNX	983-5831
Pox Hunts	Victor Doty	VESLNX	983-5831
Club Station		VESNSR	
Club Repeater	VE30SH 147.120		
Harry's Repeater	VE3NAA 443.000		

Club Historian Emerg. Coordinator Rochester Bus Trip Nonquon Canoe Races Handicapped Ride Santa Clause Parade	Mike Sherba Margaret Jeffery Fred Bengel Glen Goslin Ray Zambonelli Ralph Day	VE3DKW VE3BNN VE3TIG VE3LIZ VE3OUB VE3CRK	723-7674 725-1238 576-4839 725-1545 723-2167 576-8738
Plea Market	George Burns	VESINB	579-0007
Club Inventory	Doug Barnes	VE3WJR	357-2342
CNE & Field Day	Greg Schatzmann	VE3GJS	576-4655

2 METER NET CONVENES EVERY THTRSDAY NIGHT AT 7:00 ON THE CLUB REPEATER VE30SH. AS PART OF THE REGULAR AGENDA BERNIE VE3ATI PROVIDES CODE PRATICE FROM 8:30 UNTIL 9:30, EXCEPT FOR JULY AND AUGUST WHEN BERNIE HAS A HOLIDAY.

THE MONTHLY CLUB MEETING IS HELD AT THE ART & RESOURCES CENTER IN OSHAWA ON THE SECOND MONDAY NIGHT OF THE MONTH REGARDLESS OF HOLIDAYS.

# NEXT MEETING WILL BE HELD DECEMBER 9 1991 AT 8:00 AT THE ARTS AND RESOURCES CENTER The Annual Christmas Social Get Together

The December meeting is the anual and very popular social evening consisting of a very good selection of cheeses and other delicious things to munch on while you socialize with some of your friends that you may not have seen for some time, so plan to come out and enjoy a pleasant evening ragchewing with a lot of new hams and possibly a fair big turn out of the students taking the class with VE3ASH Rick. So I am hoping that there is going to be a good turn out for the Christmas party.

## The Santa Clause Parade

The 1991 Santa Clause Parade will be held on Nov .23 and again this year the N.S.A.R.C. will provide communications for the parade. There will be five or six different locations through out the parade route that will be manned by an operator from the N.S.A.R.C. who will have an official judge from the parade committee with them, the operator will relay the information given them by the judges to the headquarters where all info will be processed and the float winners can then be determined, and all this will have occurred by the time the last float is back at the starting point, when this was handled by the parade committee as it used to be a few years ago it would be late afternoon or possible evening by the time all the judges made their way back to the headquarters, turned their results over to the people looking after the sorting of the information and the actual processing of the information. So it sure makes life easier for the parade committee to have all the results processed by the parade is over with the help of approximately 12 hams, so when you are asked to help out, if at all possible give it a shot, there is nothing difficult and besides you get a front row seat for the whole parade.

# Fleamarket Personnel Required

Well it looks like it is that time again to start rounding up bodies to help with the fleamarket. People are going to be required for parking and security so any one that will be willing to help will be very much appreciated, and they can contact yours truly VE3LNX who is in charge of security or Mike VE3DKW who is in charge of parking or George VE3INB who is fleamarket coordinator. If sufficient people do not volunteer then I will be using the club roster to make a list of names and do some canvasing, and believe me I can be very convincing.

# Membership Renewal Time Again

I am enclosing a sheet again this month to fill out a list of equipment that you may have available in case of emergency so if you are interested in becoming involved in any emergency operations please fill out the form and return it with the membership renewal form. As mentioned on the membership renewal form, the January issue will be your last issue for the year, so if you don't want to miss any issues mail in the renewal form early.

## Jamboree On The Air

I am pleased to inform you of N.S.A.R.C.'s first adventure into the Jamboree On The Air in quite a number of years was a hit with various club members, local scout leaders and most important about 100 Scouts, Cubs, Beavers, Girl Guides and Brownies. Our club station, VE3NSR, was on the air from Camp Samac Saturday, October 19. and we operated on 40, 20, 15 and 2 meters. We were able to establish contact with a sizeable number of Amateurs and other JOTA stations across North America. Most of the kids were quite anxious to get on the air and chat to the other Scouts, and the ones who were reluctant soon lost their mic shyness. Hopefully, down the road somewhere, one or two of the kids will be prompted to explore Amateur Radio further and get their licence.

My thanks to all those who helped out with manpower, equipment or both. Thanks go to VE3CRK Ralph, VE3YPQ Norm, VE3WWZ Peter, VE3BTR Tom, VE3BNN Margaret, VE3AJY Dave and VE3LIZ Glen, also a round of applause should go out to VE3RJB Richard for getting the ball rolling and doing a lot of the instal organizing. The Scout leaders are very enthusiastic about N.S.A.R.C. participating on a bigger and better scale next fall....See you then!

73, Greg Schatzmann VE3GJS

### Election Results

The election of club executive was held at the Nov. meeting, there were 3 positions open, Treasurer, Secretary and President. VE3DKW Mike has had two terms as treasurer (4 yr) VE3LCZ Andy has other things pending (2 yr) and VE3RJB Richard (2 yr) term was up. The new executive consists of VE3TIG Fred, VE3GJS Greg and VE3RJB Richard who said he would stand for another 2 yr. term, so a hearty thanks to the out going executive for a job well done and another hearty welcome to the new crew.

# Required Reading Material

If anyone has access to the CARF November issue page 8, there is a very good article in there concerning <u>OUR HAM BANDS</u> called "The Future of Amateur Radio in Canada". The article deals with some of the problems that we face today, the biggest problem is the shrinking ham population.

If anyone is interested in this article and can't acquire a copy of it please let me or VE3LIZ Glen know and we will try and have a sufficient supply at the Christmas meeting.

## Photos For The Bulletin

Anyone who has any old black and white photos of club functions, field days, club pictures, or any club function, they all would be appreciated, I will try and put them in the bulletin if they will copy reasonably well. All photos will be returned with in 30 days ± a couple.

## Amateur Radio Display At The Library

Unfortunately by the time you will receive this it will nearly be all over but Margaret VE3BNN has engineered a display of radio equipment at the Oshawa library for the month of November. The intent behind this is to give Amateur radio some exposure. Anyone who has the time I am sure that they will enjoy the display at the Oshaws Public Library, I believe that the display will over around the first of December.

#### Lack Of Items For Sale

I am trying to get a for sale column going in case no one noticed, so unless you send me some items to publish in the for sale page you are going to have to put up with my listings, so lets get those shelves cleaned off and back in circulation again.

## Last Months Trivia Answer

Last months trivia question was "in what year was the first circuit board used". The answer is: 1945, and the circuit board was used in the mass production of the tiny radio proximity fuse for mortar shells developed by the National Bureau Of Standards. This information is available in the RADIOTRON DESIGNERS HAND BOOK 1953 EDITION.

# This Months Trivia Question

In what year was the first public announcement of the tranistor?

## Page 4

## For Sale Or Trade Or Wanted

<u>Wanted</u> Old frequency meters, the older the better contact VE3DKW Mike 416-723-7674.

For Sale 903 MHZ 33 el. loop yagies only 4 left at \$55.00 each. contact VE3LNX Victor 416-983-5831.

For Sale Model 28 Teletype, remote printer, tube type RTTY converter, tuning osciliscope, model 15 tape reader, all for a paltry \$50.00 cash & carry. contact VE3FRM Ed Taylor 416-985-3790.

(wear your truss)

For Sale Mirage 50 mhz amp like new, 150 watts, \$350.00 contact VE3LNX Victor 416-983-5831.

For Sale ICOM AT-500 auto tuner 1000 watts PEP \$450.00 contact VE3FJC Walter 416-263-2338.

For Sale Diawa 70cm amp 3w in 30w out SSB/FM \$125.00 contact VE3LNX Victor 416-983-5831.

For Sale 6146-A & B's all checked on good tester \$25.00 pair contact VE3LNX Victor 416-983-5831.

For Sale Heath SB620 analyzer 455-if, good shape \$120.00 contact VE3LIZ Glen 416-725-1545.

For Sale 4CX250B's 10 new tubes asking \$35.00 each or 4 for \$120.00 contact VE3LNX Victor 416-983-5831.

For Sale Plumbers Delight kilowatt amp for 2m/pair 4CX250/no supply \$100 contact VE3CXX Clare 416-433-8937.

For Sale Y0-100 monitor scope asking \$195.00 with manual contact VE3LNX Victor 416-983-5831.

For Sale PK64/HFM64 for Packet Radio asking \$150.00 very little use contact VE3KSY Lew 416-430-7687.

For Sale Cushcraft D4 10-40 meter rotatable dipole new \$325.00 contact VE3DKW Mike 416-723-7674.

For Sale Microwave Modules 50 mhz transverter, 10 watts \$450.00 contact VE3LNX Victor 416-983-5831.

For Sale IC-402 70cm portable 3 watts SSB and CW \$225.00 contact VE3LNX Victor 416-983-5831.

For Sale Hy-Gain 402-BA 2 el. beam for 40 meters \$350.00 contact VE3LNX Victor 416-983-5831

For Sale Armaco desk mic, wired for YAESU at present \$35.00 contact VE3LNX Victor 416-983-5831.

For Sale Heath HM-102 pwr/swr meter comes with manual \$25.00 contact VE3LIZ Glen 416-725-1545.

For Sale 2C39, 3CX100 tubes, 25 new tubes, \$17.00 each or 4 for \$50.00 contact VE3LNX Victor 416-983-5831.

#### \* THOUGHT FOR TODAY \*

Success is to be measured not so much by the position that one has reached in life as by the obstacles that they have overcome while trying to succeed.

Booker T. Washington



Walter Chrysler was president of the Buick Division of General Motors. When he left GM, he sold his stock for about \$10 million and used the money to start Chrysler Corporation.



## Items For The Bulletin

After a year of looking at the PK232 packet controller that sat on the shelf over my desk I decided to dust it off and give it a try, I still am not sure of what I am doing by times, but if you have anything for me to put in the bulletin you can do so by leaving any mail for me at VE3INF or in my mailbox VE3LNX-1 which is up at all times.

## Page 5

# Time For 1992 Membership Renewal

FULL MEMBERSHIP - \$15.00 cdn. Includes full voting privileges and monthly news bulletin for one calendar year (Jan. to Dec.).

ASSOCIATE MEMBERSHIP - \$10.00 cdn.

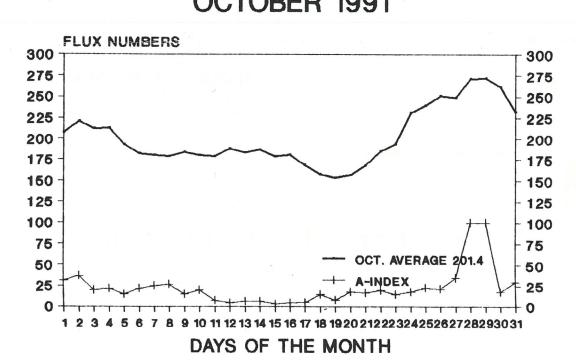
Includes bulletin only and a hearty welcome to all meetings.

2ND FAMILY MEMBERSHIP - \$5.00 cdn.

Includes full voting privileges when associated with a full membership, but no monthly bulletin (assumed living in the same house).

To join send cheque or money order in care of VE3GDF Keith Wyard-Scott, the registrar, at his home, 298 Dover Street, Oshawa, Ontario L1G 6G6 (preferably) or N.S.A.R.C., P.O. Box 171 Oshawa, Ontario L1H 7L1.

Name		Call
Street & Number		
Postal or zip code		Phone
Membership-Full Asso	ciate Family	Total \$
Donations for repeater f	und amount \$	(if you desire)
No bulletins wil	1 be receiv	ed after
January 1992 if	membership	is not
renewed by Janua	ry 15 1992.	
OCTO	RED 1001	



# Page 6

# NORTH SHORE AMATEUR RADIO CLUB

EQUIPMENT AND AVAILABILITY FOR EMERGENCY SERVICE

EQU	IPMENT	RF	POWER	POWER	SUPPL	Y	MODE			
VHF	BASE MOBILE HT			110AC 110AC 110AC	12DC	BATTERY BATTERY BATTERY	SSB SSB SSB	CW CW	FM FM FM	PACKET PACKET PACKET
UHF	BASE MOBILE HT			110AC 110AC 110AC	12DC	BATTERY BATTERY BATTERY	SSB SSB SSB	CW CW	FM FM	PACKET PACKET PACKET
HF	BASE MOBILE			110AC 110AC		BATTERY BATTERY	SSB	CW	FM FM	PACKET PACKET
ANTE	ENNAS									
BATT GENE OTHE	RATOR R	AM AM AM AM AM AM POWE	WIRE WIRE WIRE WIRE WIRE	<u> </u>	TO TO TO TO TO TO	PHER PHER PHER PHER PHER PHER PHER				WEEKENDS
NAM	E:	-					CALL:			
ADDI	RESS:		•		<u>*</u>	1	PHONE:			
	-									
	-				· · · ·					

Send completed form to: NSARC P.O. Box 171 Oshawa, Ont., L1H 7L1

#### North Shore Amateur Radio Club Jackets

We have arranged the availability of custom made jackets for our club. The jackets have a red cotton outer layer, domed cuffs (what I call shirt sleeve cuffs), a drawstring waist, cargo pockets (so your valuables don't fall out), a lay down collar (once again like on a shirt), and the club logo/name embroidered on the front. We have arranged to have two models available, one with a silk lining for summer and the other with a quilted lining for spring, fall, and those not so cold winter days. Since these are to be custom make we can handle any unusual fitting needs.

To order your jacket(s) please fill in the following form and send it by December 12 to Richard Button

342 Lorindale Drive Oshawa Ontario L1H 6X4

Name:				Call:	
Address:					AJ5,
City:					
Postal Code:					3410 3410
			e embroidery		
Summer Jacket	Size S	M L	XL		\$64.00
Summer Jacket	Size S	M L	XL		\$64.00
Summer Jacket	Size S	M L	XL		\$64.00
Quilted Jacket &	Size S	M L	XL		\$73.00
Quilted Jacket	Size S	M L	XL		\$73.00
Quilted Jacket S	Size S	M L	XL		\$73.00
(Make check pay	aprox 8 we	eks for o	e Amateur R	otal \$ adio Club)	
Special fitting	requireme	ents:			
Neck:			Chest:		
Arm (neck to cut	Ef):		Arm	(biceps):_	
Waist:	Ва	ck (neck	to jacket b	ottom):	n (qad )
Othor					

## TABLE OF ALLOCATION OF INTERNATIONAL CALL SIGN SERIES

As Issued by the International Telecommunications Union and Others

AAA-ALZ	United States of America	TIA-TIZ	Costa Rica	6AA-6BZ	Egypt
AMA-AOZ	Spain	TJA-TJZ	Cameroon	6CA-6CZ	Syria
APA-ASZ ATA-AWZ	Pakistan	TKA-TKZ TLA-TLZ	France Control African Benublic	6DA-6JZ 6KA-6NZ	Mexico Rep. of Korea (South)
AXA-AXZ	Australia	TMA-TMZ	Central African Republic France	60A-60Z	Somalia
AYA-AZZ	Argentina	TNA-TNZ	Congo	6PA-6SZ	Pakistan
DA 4 D77	Ch:	TOA-TQZ	France	6TA-6UZ	Sudan
BAA-BZZ	China	TRA-TRZ TSA-TSZ	Gabon Tunisia	6VA-6WZ 6XA-6XZ	Senegal Madagascar
CAA-CEZ	Chile	TTA-TTZ	Chad	6YA-6YZ	Jamaica
CFA-CKZ	Canada	TUA-TUZ	Ivory Coast	6ZA-6ZZ	Liberia
CLA-CMZ	Cuba	TVA-TXZ	France		
CNA-CNZ COA-COZ		TYA-TYZ		7AA-71Z 7JA-7NZ	Indonesia
CPA-CP7	Bolivia	TZA-TZZ	Mali	70A-70Z	Japan South Yemen
CQA-CUZ CVA-CXZ	Portugal	UAA-UQZ	Union of Soviet Socialist Rep.	7PA-7PZ	Lesotho
CVA-CXZ	Uruguay	URA-UTZ	Ukrainian Soviet Socialist Rep.	7QA-7QZ	Malawi
CYA-CZZ	Canada	UUA-UZZ	Union of Soviet Socialist Rep.	7RA-7RZ 7SA-7SZ	Algeria
DAA-DR7	Fed. Rep. of Germany (West)	VAA-VG7	Canada	75A-75Z 7TA-7YZ	Sweden Algeria
DSA-DTZ	South Korea	VAA-VGZ VHA-VNZ	Australia	7ZA-7ZZ	Saudi Arabia
DUA-DZZ	Philippines	VOA-VOZ	Canada		
C A A EU 7	Carrie	VPA-VSZ	Great Britain & No. Ireland	8AA-8IZ	Indonesia
EAA-EHZ EIA-EJZ	Ireland	VTA-VWZ VXA-VYZ	Canada	8JA-8NZ 8OA-8OZ	Japan Botswana
EKA-EKZ	Union of Soviet Socialist Rep.	VZA-VZZ		8PA-8PZ	Barbados
ELA-ELZ	Liberia			8QA-8QZ	Maldive Is.
EMA-EOZ	Union of Soviet Socialist Rep.	WAA-WZZ	United States of America	8RA-8RZ	Guyana
EPA-EQZ ERA-ESZ	Iran Union of Soviet Socialist Rep.	XAA-XIZ	Mexico	8SA-8SZ 8TA-8YZ	Sweden India
ETA-ETZ	Ethiopia	XJA-XOZ	Canada	8ZA-8ZZ	Saudi Arabia
EUA-EWZ	Byelorussian SSR	XPA-XPZ	Denmark		
EXA-EZZ	Union of Soviet Socialist Rep.	XQA-XRZ		9BA-9DZ	Iran
FAA-FZZ	France	XSA-XSZ XTA-XTZ	China Voltaic Republic	9EA-9FZ 9GA-9GZ	Ethiopia Ghana
		XUA-XUZ	Cambodia	9HA-9HZ	Malta
GAA-GZZ	Great Britain & No. Ireland	XVA-XVZ	Vietnam	9IA-9JZ	Zambia
		XWA-XWZ	Laos	9KA-9KZ	Kuwait
HAA-HAZ	Hungary	XXA-XXZ	Portugal	9LA-9LZ	Sierra Leone
HBA-HBZ HCA-HDZ	Switzerland Ecuador	XYA-XZZ	Durina	9MA-9MZ 9NA-9NZ	Malaysia Nepal
HEA-HEZ	Switzerland	YAA-YAZ	Afghanistan	90A-9TZ	Zaire
HFA-HFZ	Poland	YBA-YHZ	Indonesia	90A-9TZ 9UA-9UZ	Burundi
HGA-HGZ	Hungary	YIA-YIZ	Iraq	9VA-9VZ	Singapore
HHA-HHZ HIA-HIZ	Haiti Dominican Republic	YJA-YJZ YKA-YKZ	Vanuatu	9WA-9WZ 9XA-9XZ	Malaysia Rwanda
HJA-HKZ	Colombia	YI A.YI Z	Syria Union of Soviet Socialist Rep	9YA-9ZZ	Trinidad and Tobago
HLA-HLZ	Rep. of Korea (South)	YMA-YMZ	Turkey	3171322	, illiada ana i asaya
HMA-HMZ	Dem. People's Rep. of Korea (North)	YNA-YNZ	Union of Soviet Socialist Rep. Turkey Nicaragua Romania	A2A-A2Z	Botswana
HNA-HNZ	Iraq	YOA-YRZ	Romania	A3A-A3Z	Tonga
HOA-HPZ HQA-HRZ	Panama Honduras	YSA-YSZ	El Salvador Yugoslavia	A4A-A4Z A5A-A5Z	Oman Bhutan
HSA-HSZ	Thailand	YVA.YY7	Venezuela	A6A-A6Z	United Arab Emirates
HTA-HTZ		YZA-YZZ	Venezuela Yugoslavia	A7A-A7Z	Qatar
HUA-HUZ	El Salvador			A8A-A8Z	Liberia
HVA-HVZ		ZAA-ZAZ		A9A-A9Z	Bahrain
HWA-HYZ		ZBA-ZJZ	Great Britain & No. Ireland New Zealand	C2A C27	Nauru
	Saudi Arabia			C2A-C22	Andorra
	Italy	ZNA-ZOZ ZPA-ZPZ	Great Britain & No. Ireland	C3A-C3Z C4A-C4Z	
IAA-IZZ	Italy	ZPA-ZPZ ZQA-ZQZ	Paraguay Great Britain & No. Ireland	C3A-C3Z C4A-C4Z C5A-C5Z	Cyprus The Gambia
JAA-IZZ	Japan	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ	Paraguay Great Britain & No. Ireland South Africa-Namibia	C3A-C3Z C4A-C4Z C5A-C5Z C6A-C6Z	Cyprus The Gambia Bahamas
JAA-JSZ JTA-JVZ	Japan Mongolia	ZPA-ZPZ ZQA-ZQZ	Paraguay Great Britain & No. Ireland	C2A-C2Z C3A-C3Z C4A-C4Z C5A-C5Z C6A-C6Z C7A-C7Z	Cyprus The Gambia Bahamas World Meteorological Organization
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JAA-JSZ JTA-JVZ	Japan Mongolia	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ	Paraguay Great Britain & No. Ireland South Africa-Namibia	D2A-D3Z	Cyprus The Gambia Bahamas World Meteorological Organization
ZZL-AAI ZVL-AAL ZVL-AWL ZYL-AWL ZYL-AZL ZYL-AZL	Japan Mongolia Norway Jordan Indonesia	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 2AA-2ZZ 3AA-3AZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco	D2A-D3Z D4A-D4Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique Angola Cape Verde
ZZL-AAI ZVL-AAL ZVL-AWL ZYL-AWL ZYL-AZL ZYL-AZL	Japan Mongolia Norway Jordan	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 2AA-2ZZ 3AA-3AZ 3BA-3BZ	Paraguay Paraguay South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius	D2A-D3Z D4A-D4Z D5A-D5Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia
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IAA-IZZ JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JZA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 2AA-2ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JZA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LYA-LYZ LZA-LZZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 2AA-2ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3VA-3VZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JZA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LYA-LYZ LZA-LZZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep.	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3WA-3WZ 3WA-3WZ 3WA-3WZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JZA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LYA-LYZ LYA-LYZ LYA-LZZ MAA-MZZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-2ZZ 3AA-3AZ 3CA-3CZ 3DA-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3VA-3WZ 3VA-3WZ 3YA-3YZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mouritius Equatorial Guinea Swaziland Friji Panama Chile China Tunisia Vietnam Guinea Norway	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JZA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LYA-LYZ LYA-LZZ MAA-MZZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3WA-3WZ 3WA-3WZ 3WA-3WZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti Grenada
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LYA-LYZ LZA-LZZ MAA-MZZ OAA-OCZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 2AA-2ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3WA-3WZ 3WA-3WZ 3WA-3WZ 3YA-3ZZ 3YA-3ZZ 3ZA-3ZZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Friji Panama Chile China Tunisia Vietnam Guinea Norway Poland	D2A-D3Z D4A-D4Z D5A-D5Z D5A-D5Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z J4A-J4Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama  Djibouti Grenada Greece
IAA-IZZ JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LYA-LZZ MAA-MZZ NAA-NZZ OAA-OCZ ODA-ODZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 2AA-2ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3YA-3ZZ 4AA-4CZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland Mexico	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z J3A-J3Z J5A-J5Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti Grenada Greece Guinea Bissau
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JZA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LXA-LXZ LYA-LYZ LZA-LZZ MAA-MZZ OAA-OCZ ODA-ODZ OEA-OEZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 2AA-2ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3VA-3VZ 3VA-3VZ 3YA-3ZZ 4AA-4CZ 4DA-4IZ 4JA-4LZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Friji Panama Chile China Tunisia Vietnam Guinea Norway Poland	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z J5A-J5Z J5A-J6Z J7A-J7Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama  Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JZA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LXA-LXZ LYA-LYZ LXA-LZZ MAA-MZZ OAA-OCZ ODA-ODZ OBA-ODZ OFA-ODZ OFA-ODZ OKA-OMZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 2AA-2ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3VA-3ZZ 4AA-4CZ 4DA-4IZ 4JA-4LZ 4JA-4LZ 4JA-4LZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland  Mexico Philippines Union of Soviet Socialist Rep. Venezuela	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z J4A-J4Z J5A-J6Z J6A-J6Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti Grenada Greece Guinea Bissau St. Lucia
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ MAA-MZZ MAA-MZZ OAA-OCZ OBA-ODZ OFA-OBZ OKA-OMZ ONA-OTZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia Belgium	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-2ZZ 3AA-3AZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3WA-3WZ 3VA-3VZ 3VA-3VZ 3VA-3ZZ 4AA-4CZ 4DA-4LZ 4MA-4MZ 4MA-4MZ 4MA-4MZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland  Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z J4A-J4Z J5A-J5Z J6A-J6Z J6A-J6Z J6A-J6Z J6A-J6Z J8A-J8Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama  Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ MAA-MZZ MAA-MZZ OAA-OCZ OBA-ODZ OFA-OBZ OKA-OMZ ONA-OTZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3ZZ 3BA-3BZ 3GA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4JA-4LZ 4JA-4LZ 4MA-4MZ 4NA-4OZ 4PA-4SZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z J5A-J5Z J5A-J6Z J7A-J7Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama  Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ MAA-MZZ MAA-MZZ OAA-OCZ OBA-OBZ OFA-OJZ ONA-OTZ OUA-OZZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3ZZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4AA-4CZ 4DA-4IZ 4JA-4LZ 4MA-4DZ 4PA-4S	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Friji Panama Chile China Tunisia Vietnam Guinea Norway Poland  Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka Peru	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z J4A-J4Z J5A-J5Z J6A-J6Z J7A-J7Z J8A-J8Z L2A-L9Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama  Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ MAA-MZZ NAA-NZZ OAA-OCZ ODA-ODZ OFA-OJZ OKA-OMZ ONA-OTZ OUA-OZZ PAA-PIZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark Netherlands	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ  3AA-3ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3WA-3VZ 3WA-3VZ 3WA-3VZ 3WA-3VZ 4AA-4CZ 4DA-4IZ 4JA-4LZ 4MA-4MZ 4MA-4DZ 4PA-4SZ 4UA-4UZ 4UA-4UZ 4UA-4UZ 4UA-4UZ 4VA-4VZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H4A-H4Z H3A-H3Z J3A-J3Z J3A-J3Z J3A-J3Z J6A-J6Z J7A-J7Z J8A-J8Z L2A-L9Z P2A-P2Z P2A-P3Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines  Argentina Papua New Guinea Cyprus
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ MAA-MZZ MAA-MZZ OAA-OCZ OBA-ODZ OFA-OBZ OFA-OBZ ONA-OTZ OUA-OZZ PAA-PIZ PJA-PJZ PKA-POZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark Netherlands	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4AA-4CZ 4DA-4IZ 4MA-4MZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4WA-4WZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland  Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka Peru United Nations Haiti North Yemen	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H8A-H9Z J2A-J2Z J3A-J3Z J3A-J5Z J3A-J5Z J3A-J5Z J3A-J5Z J3A-J6Z J7A-J7Z J8A-J8Z L2A-L9Z P2A-P2Z P3A-P3Z P3A-P3Z P3A-P4Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines  Argentina  Papua New Guinea Cyprus Netherlands Antilles
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ JZA-JZZ  KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LXA-LXZ LYA-LYZ OAA-OKZ ODA-ODZ ODA-ODZ ODA-ODZ OFA-OJZ OKA-OMZ ONA-OTZ ONA-OTZ PAA-PIZ PJA-PJZ PKA-POZ PPA-PYZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark Netherlands	ZPA-ZPZ ZQA-ZQZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3ZZ 3BA-3BZ 3BA-3BZ 3BA-3BZ 3GA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4WA-4VZ 4WA-4VZ 4WA-4VZ 4WA-4WZ 4WA-4WZ 4WA-4WZ 4WA-4WZ 4WA-4WZ 4WA-4WZ 4WA-4WZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka Peru United Nations Haiti North Yemen Israel	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H4A-H4Z H3A-H3Z J3A-J3Z J3A-J3Z J3A-J3Z J6A-J6Z J7A-J7Z J8A-J8Z L2A-L9Z P2A-P2Z P2A-P3Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines  Argentina Papua New Guinea Cyprus
JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ JZA-JZZ  KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LYA-LYZ LYA-LYZ OAA-OZZ ODA-ODZ ODA-ODZ ODA-ODZ ODA-ODZ ODA-ODZ OPA-OZZ PAA-PIZ PJA-PJZ PKA-POZ PPA-PYZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark Netherlands	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3WA-3WZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4VA-4VZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Friji Panama Chile China Tunisia Vietnam Guinea Norway Poland  Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka Peru United Nations Haiti North Yemen Israel Intl. Civil Aviation Org.	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H3A-H3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J5Z J3A-J5Z J6A-J6Z J7A-J7Z J8A-J8Z L2A-L9Z P2A-P2Z P3A-P3Z P4A-P4Z P5A-P9Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines Argentina Papua New Guinea Cyprus Netherlands Antilles Dem. People's Rep. of Korea (North)
JAA-JZZ JAA-JZZ JYA-JYZ JYA-JYZ JYA-JYZ JZA-JZZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LXZ LYA-LYZ MAA-MZZ OAA-OCZ ODA-ODZ OEA-OEZ ODA-ODZ OEA-OZZ OFA-OJZ ONA-OMZ ONA-OTZ PAA-PIZ PJA-PJZ PYA-PZZ PZA-PZZ	Japan Mongolia Norway Jordan Indonesia United States of America Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark Netherlands Netherlands Antilles Indonesia Brazil Surinam	ZPA-ZPZ ZQA-ZQZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3ZZ 3BA-3BZ 3BA-3BZ 3BA-3BZ 3GA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4WA-4VZ 4WA-4VZ 4WA-4VZ 4WA-4WZ 4WA-4WZ 4WA-4WZ 4WA-4WZ 4WA-4WZ 4WA-4WZ 4WA-4WZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil Great Britain & No. Ireland Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka Peru United Nations Haiti North Yemen Israel	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H3A-J3Z J3A-J3Z J3A-J3Z J3A-J5Z J5A-J5	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama  Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines  Argentina  Papua New Guinea Cyprus Netherlands Antilles Dem. People's Rep. of Korea (North)  Bangladesh
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JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ JYA-JYZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LYZ LXA-LYZ LYA-LYZ OAA-OZ OBA-OZ OFA-OJZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OZ PAA-PIZ PJA-PJZ PJA-PJZ PKA-POZ PPA-PYZ PZA-PZZ RAA-RZZ	Japan Mongolia Norway Jordan Indonesia United States of America  Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America  Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark  Netherlands Netherlands Antilles Indonesia Brazil Surinam  Q Signals Union of Soviet Socialist Rep.	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZZ 3AA-3ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 5AA-5AZ 5BA-5BZ 5BA-5BZ 5CA-5GZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Fiji Panama Chile China Tunisia Vietnam Guinea Norway Poland  Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka Peru United Nations Haiti North Yemen Israel Intl. Civil Aviation Org. Israel Libya Cyprus Morocco	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H8A-H9Z J2A-J2Z J3A-J3Z J3A-J3Z J3A-J5Z J3A-J5Z J6A-J6Z J7A-J7Z J8A-J8Z L2A-L9Z P2A-P2Z P3A-P3A-P3Z P3	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama  Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines  Argentina  Papua New Guinea Cyprus Netherlands Antilles Dem. People's Rep. of Korea (North)  Bangladesh Singapore Seychelles Sao Tome & Principe
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JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ JYA-JYZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LYZ LXA-LYZ LYA-LYZ OAA-OCZ ODA-ODZ OAA-OCZ OAA-OZ OAA-OZ OAA-OZ OAA-OZ OAA-OZ PAA-PIZ PJA-PIZ PJA-PIZ PYA-PZ PZA-PZZ QAA-QZZ RAA-RZZ SAA-SMZ SNA-SRZ	Japan Mongolia Norway Jordan Indonesia United States of America  Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America  Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark  Netherlands Netherlands Antilles Indonesia Brazil Surinam Q Signals Union of Soviet Socialist Rep.	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZ 3AA-3ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 5AA-5AZ 5BA-5BZ 5CA-5GZ 5HA-5IZ 5JA-5FZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Mauritius Equatorial Guinea Swaziland Friji Panama Chile China Tunisia Vietnam Guinea Norway Poland  Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka Peru United Nations Haiti North Yemen Israel Intl. Civil Aviation Org. Israel Libya Cyprus Morocco Tanzania Colombia	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H4A-H4Z H3A-H3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J3Z J3A-J8Z L2A-L9Z P2A-P2Z P2A-P2Z P2A-P3Z P3A-S3Z S7A-S7Z S7A-S9Z T2A-T2Z T3A-T3Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama  Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines  Argentina Papua New Guinea Cyprus Netherlands Antilles Dem. People's Rep. of Korea (North)  Bangladesh Singapore Seychelles Sao Tome & Principe  Tuvalu Kiribati
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JAA-JSZ JTA-JVZ JWA-JXZ JYA-JYZ JYA-JYZ JYA-JYZ KAA-KZZ LAA-LNZ LOA-LWZ LXA-LYZ LZA-LZZ MAA-MZZ OAA-OCZ ODA-ODZ OEA-OEZ OFA-OJZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OMZ OKA-OZZ PAA-PIZ PJA-PJZ PJA-PJZ PZA-PZZ RAA-RZZ SAA-SMZ SNA-SRZ SSA-SSM SSN-STZ SVA-SUZ	Japan Mongolia Norway Jordan Indonesia United States of America  Norway Argentina Luxembourg Union of Soviet Socialist Rep. Bulgaria Great Britain & No. Ireland United States of America  Peru Lebanon Austria Finland Czechoslovakia Belgium Denmark  Netherlands Netherlands Antilles Indonesia Brazil Surinam  Q Signals Union of Soviet Socialist Rep.	ZPA-ZPZ ZQA-ZQZ ZRA-ZUZ ZVA-ZZ 3AA-3ZZ 3AA-3AZ 3BA-3BZ 3CA-3CZ 3DA-3DM 3DN-3DZ 3EA-3FZ 3GA-3GZ 3HA-3UZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 3VA-3VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 4VA-4VZ 5AA-5AZ 5BA-5BZ 5CA-5GZ 5HA-5IZ 5NA-5OZ 5PA-5QZ 5PA-5QZ 5PA-5QZ 5PA-5QZ	Paraguay Great Britain & No. Ireland South Africa-Namibia Brazil  Great Britain & No. Ireland  Monaco Monaco Mauritius Equatorial Guinea Swaziland Friji Panama Chile China Tunisia Vietnam Guinea Norway Poland  Mexico Philippines Union of Soviet Socialist Rep. Venezuela Yugoslavia Sri Lanka Peru United Nations Haiti North Yemen Israel Intl. Civil Aviation Org. Israel Libya Cyprus Morocco Tanzania Colombia Liberia Nigeria Denmark	D2A-D3Z D4A-D4Z D5A-D5Z D6A-D6Z D7A-D9Z H2A-H2Z H3A-H3Z H4A-H4Z H6A-H7Z H3A-J3Z J3A-J3Z T3A-T3Z T3A-T3Z T3A-T3Z T3A-T3Z T3A-T3Z T3A-T3Z T3A-T3Z	Cyprus The Gambia Bahamas World Meteorological Organization Mozambique  Angola Cape Verde Liberia Comoros South Korea  Cyprus Panama Solomon Is Nicaragua Panama Djibouti Grenada Greece Guinea Bissau St. Lucia Dominica St. Vincent and the Grenadines  Argentina Papua New Guinea Cyprus Netherlands Antilles Dem. People's Rep. of Korea (North)  Bangladesh Singapore Seychelles Sao Tome & Principe  Tuvalu Kiribati Cuba Somalia Afghanistan
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