

SMART CLOCK SETTING INSTRUCTIONS

THERE ARE NINE REGISTERS. THEY ARE TIME, MONTH/DAY, YEAR, 12/24 HOUR, DAYLIGHT SAVING TIME, TIME ZONE LOCATION, BRIGHTNESS, TIME CORRECTION AND DISPLAY FORMAT. THE **(DISPLAY)** BUTTON WILL MOVE YOU THROUGH THESE REGISTERS. AND TO SET A REGISTER, YOU WILL USE THE **(SET 1)** AND **(SET 2)** BUTTONS.

STEP 1: TO SET THE TIME. THE **(SET 1)** BUTTON ADVANCES THE MINUTES AND THE **(SET 2)** BUTTON ADVANCES THE HOURS.

NOTE: WHEN ADVANCING THE MINUTES, THE SECONDS ARE ZEROED.

STEP 2: PRESS THE **(DISPLAY)** BUTTON, TO SET THE MONTH AND DAY. THE **(SET 1)** BUTTON ADVANCES THE DAY AND THE **(SET 2)** BUTTON ADVANCES THE MONTH.

STEP 3: PRESS THE **(DISPLAY)** BUTTON, TO SET THE YEAR. THE **(SET 1)** BUTTON INCREASES THE YEAR AND THE **(SET 2)** BUTTON DECREASES THE YEAR.

STEP 4: PRESS THE **(DISPLAY)** BUTTON, TO SET THE 12 OR 24 HOUR FORMAT. THE **(SET 1)** BUTTON SETS 12 OR 24 HOUR.

STEP 5: PRESS THE **(DISPLAY)** BUTTON, TO SET THE DAYLIGHT SAVING TIME. THE **(SET 1)** BUTTON ADVANCES AND THE **(SET 2)** BUTTON DECREASES THE SETTING.

0 = NO DAYLIGHT SAVING TIME.

9 = FORCED ONE HOUR DAYLIGHT **(USED ON OLDER (2006) CLOCKS)**

30 = AUTOMATIC DAYLIGHT SAVING TIME. **(USA AND CANADA AFTER 2007)**

* = OTHER COUNTRIES SEE CHART <http://www.digitaldisplay.com/wp-content/uploads/2010/07/Time-zone-manual.pdf>

STEP 6: PRESS THE **(DISPLAY)** BUTTON, TO SET THE ZONE. THE **(SET 1)** BUTTON ADVANCES THE ZONE NUMBER AND THE **(SET 2)** BUTTON DECREASES THE ZONE NUMBER. **SEE** <http://www.digitaldisplay.com/wp-content/uploads/2010/07/Time-zone-manual.pdf>

NOTE: A (7) IS DISPLAYED ON THE FAR LEFT TO IDENTIFY THE ZONE REGISTER.

STEP 7: PRESS THE **(DISPLAY)** BUTTON TO SET THE BRIGHTNESS. THE **(SET 1)** BUTTON INCREASES BRIGHTNESS AND THE **(SET 2)** BUTTON DECREASES BRIGHTNESS. **NOTE: A (b) IS DISPLAYED ON THE FAR LEFT TO IDENTIFY THIS REGISTER.**

STEP 8: PRESS THE **(DISPLAY)** BUTTON, TO SET THE TIME CORRECTION. THE **(SET 1)** BUTTON INCREASES THE CORRECTION AND THE **(SET 2)** BUTTON DECREASES THE CORRECTION. **NOTE: A (c) IS DISPLAYED ON THE FAR LEFT TO IDENTIFY THE REGISTER. THE NUMBER DISPLAYED IS IN SECONDS PER MONTH CORRECTION A MINUS SIGN OVER THE (c) SUBTRACTS SECONDS PER MONTH.**

STEP 9: PRESS THE **(DISPLAY)** BUTTON, THIS IS THE DISPLAY FORMAT IT SHOULD ON **(44)** FOR HR/MIN AND **(46)** FOR HR/MIN/SEC

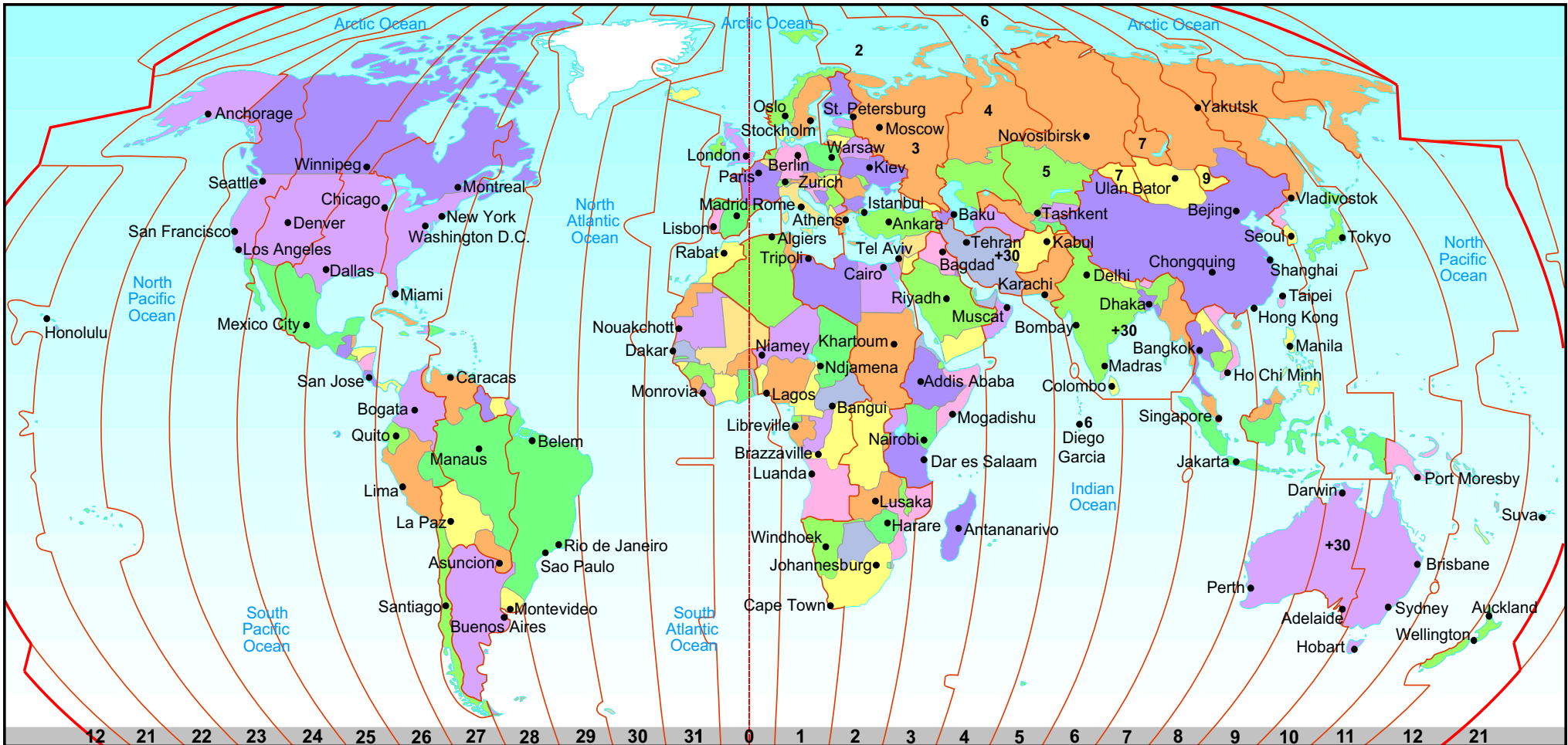
STEP 10: PRESS THE **(DISPLAY)** BUTTON TO RETURN TO THE TIME DISPLAY

SETTING SWITCHES



↑ ↑ ↑
DISPLAY SET 1 SET 2





CORRECTION REGISTER DETAILED INSTRUCTIONS

THE CORRECTION REGISTER IS USED TO TRIM THE TIME KEEPING CRYSTAL, PLUS OR MINUS SECONDS OF A MONTH . TO AVODE CHASING THE CXR (CRYSTAL) THE MINIMUM CORRECTION INTERVAL SHOULD BE ONE MONTH, TWO MONTHS PREFERRED. WHEN IN THE CORRECTION REG. A SMALL C (c) OR A C- (c̄) IS DISPLAYED TO THE LEFT AND UP TO THREE DIGITS TO THE RIGHT. THE NUMBERS TO THE RIGHT REPRESENT SECONDS PER MONTH, THE (c) IS ADDING SECONDS AND THE (c̄) IS SUBTRACTING SECONDS. (MAXIMUM SETTING IS USUALLY 2 SEC + OR -)

DDS Daylight Saving Modes

Mode	Country	Start	Stop
0	none		
1	(Old) US, Canada, Bermuda	1 st Sunday in Apr. 0159 to 0300	Last Sunday in Oct. 0159 to 0100
2	Brazil	3 rd Sunday in Oct. 0159 to 0300	2 nd Sunday in Feb. 0159 to 0100
3	Argentina	3 rd Sunday in Oct. 0159 to 0300	1 st Sunday in Mar. 0159 to 0100
4	Chile	3 rd Sunday in Oct. 0159 to 0300	2 nd Sunday in Mar. 0159 to 0100
5	UK, Ireland	Last Sunday in Mar. 0159 to 0300	Next-to-Last Sunday in Oct. 0159 to 0100
6	Europe	Last Sunday in Mar. 0159 to 0300	Last Sunday in Sep. 0159 to 0100
7	Israel	4 th Sunday in Apr. 0159 to 0300	1 st Sunday in Sep. 0159 to 0100
8	(Old) Australia	Last Sunday in Oct. 0159 to 0300	3 rd Sunday in Mar. 0159 to 0100
9	Forced 1 hr. advance		
10	Forced ½ hr. advance		
11	(Old) New Zealand	2 nd Sunday in Oct 0159 to 0300	3 rd Sunday in Mar. 0159 to 0100
12	Newfoundland (1/2 hr. forced advance plus DST)	1 st Sunday in Apr. 0159 to 0300	Last Sunday in Oct. 0159 to 0100
13	(Old) Australia	Last Sunday in Oct. 0159 to 0300	Last Sunday in Mar. 0259 to 0200
14	Paraguay	Apr. 1 0059 to 0200	Oct. 1 0159 to 0100
15	(Old) New Zealand	1 st Sunday in Oct. 0159 to 0300	1 st Sunday in Mar. on or after 15 th 0259 to 0200
16	Greece	Last Sunday in Mar. 0259 to 0400	Last Sunday in Oct. 0359 to 0300
17	Iraq	Last Sunday in Mar. 0059 to 0200	Last Sunday in Sep. 0159 to 0100
18	Lebanon	May 1 0059 to 0200	Oct. 16 0159 to 0100
19	Egypt	May 1 0159 to 0300	Oct. 1 0259 to 0200
20	UK, Ireland, Scotland	Last Sunday in Mar. 0059 to 0200	Last Sunday in Oct. 0159 to 0100
21	Cuba	1 st Sunday in Mar. on or after 14 th 0059 to 0200	1 st Sunday in Oct. on or after 8 th 0159 to 0100
22	Brazil	1 st Sunday in Oct. 0159 to 0300	1 st Sunday in Feb. on or after 11 th 0259 to 0200
23	Chile	1 st Sunday in Oct on or after 9 th 0159 to 0300	1 st Sunday in Mar. on or after 9 th 0259 to 0200
24	Iran	Mar. 21 0159 to 0300	Sept. 23 0259 to 0200
25	Forced ¼ hr. advance		
26	Forced ¾ hr. advance		
27	Egypt	Last Wednesday in Apr. 2359 to 0100	Last Wednesday in Oct. 2359 to 2300
28		Last Sunday in Mar. 0159 to 0300	Last Sunday in Nov. 0159 to 0100
29		1 st Sunday in Mar. 0159 to 0300	Last Sunday in Nov. 0159 to 0100
30	(New) US Starting 2007	2 nd Sunday in Mar. 0159 to 0300	1 st Sunday in Nov. 0159 to 0100
31	(New) Australia	1 st Sunday in Oct. 0159 to 0300	1 st Sunday in Apr. 0159 to 0100
32	(New) New Zealand	Last Sunday in Sep. 0159 to 0300	1 st Sunday in Apr. 0159 to 0100

The number in parentheses is the the *Daylight Number* and the next number is the *Zone Location*.

ABIDJAN	(0) 0	DENMARK	(20) 1	JERUSALEM	(7) 2	NEWFOUNDLAND	(12) 28
ABU DHABI	(0) 14	DENVER	(30) 25	JOHANNESBURG	(0) 2	NIGERIA	(0) 1
ADDIS ABABA	(0) 3	DETROIT	(30) 27	JORDAN	(20) 2	NORTH CAROLINA	(30) 27
ADELAIDE	(10) 9	DHAKA	(0) 6	JUNEAU	(30) 23	NORTH DAKOTA	(30) 26
AFGHANISTAN	(10) 4	DIEGO GARCIA	(0) 6			NORWAY	(20) 1
AFRICA	(0) 3	DOHA	(0) 3	KABUL	(10) 4		
ALABAMA	(30) 26	DOVER	(30) 27	KADENA	(0) 9	OHIO	(30) 27
ALASKA	(30) 23	DUBAI	(0) 4	KANDAHAR	(10) 4	OKINAWA	(0) 9
ALBUQUERQUE	(30) 25	DUBLIN	(20) 0	KANSAS	(30) 26	OKLAHOMA	(30) 26
ALEUTIAN	(0) 22	DULLES	(30) 27	KAPAUN	(20) 1	OMAHA	(30) 26
AL UDEID	(0) 3			KARACHI	(0) 5	OMAN	(0) 4
AMSTERDAM	(20) 1	EAST COAST	(30) 27	KENTUCKY	(30) 27	ONIZUKA (CA)	(30) 24
ANCHORAGE	(30) 23	EDINBURGH	(20) 0	KENYA	(0) 3	OREGON	(30) 24
ANDERSON	(0) 10	ECUADOR	(0) 27	KEY WEST	(30) 27	OTTAWA	(30) 27
ANKARA	(20) 2	EGYPT	(27) 2	KOBE	(0) 9		
ANTIGUA	(12) 28	ELMENDORF	(30) 23	KODIAK	(30) 23	PACIFIC	(30) 24
ARGENTINA	(0) 29	EL SALVADOR	(0) 26	KOREA	(0) 9	PACOM AK/HI	(0) 22
ARIZONA	(0) 25	EL SEGUNDO	(30) 24	KOSOVO	(20) 2	PAKISTAN	(0) 5
ARKANSAS	(30) 26	EUCOM	(20) 1	KUALA LUMPUR	(0) 8	PARIS	(20) 1
ATHENS	(20) 2	EUROPE	(20) 1	KUWAIT	(0) 3	PENNSYLVANIA	(30) 27
ATLANTA	(30) 27			KWAJALEIN	(0) 12	PENTAGON	(30) 27
ATLANTIC	(30) 28	FLORIDA	(30) 27	KYRGYZSTAN	(16) 5	PERSIAN GULF	(0) 3
AUCKLAND	(32) 12	FORT BELVOIR	(30) 27			PERTH	(0) 8
AUSTRIA	(20) 1	FORT BLISS	(30) 26	LANGLEY AFB	(30) 27	PERU	(0) 27
AUSTRALIA	(31) 10	FORT BRAGG	(30) 27	LAS VEGAS	(30) 24	PHILADELPHIA	(30) 27
AVCIRO	(20) 0	FORT CAMPBELL	(30) 26	LITHUANIA	(20) 2	PHILIPPINES	(0) 8
AZORES	(20) 1	FORT HOOD	(30) 26	LONDON	(20) 0	PHOENIX	(0) 25
		FORT LEWIS	(30) 24	LOS ANGELES	(30) 24	POLAND	(20) 1
BAGHDAD	(0) 3	FORSKOM	(30) 27	LOUISIANA	(30) 26	PRAGUE	(20) 1
BAGRAM	(10) 4	FREDERICTON	(30) 28	LUXEMBOURG	(20) 1	PRINCE SULTAN	(0) 3
BAHRAIN	(0) 3	FR. GUIANA	(0) 29			PUERTO RICO	(0) 28
BALIKPAPAN	(0) 8	FRANKFURT	(20) 1	MADRID	(20) 1	PUNE	(10) 15
BALTIMORE	(30) 27			MAINE	(30) 27		
BANGALORE	(10) 5	GENEVA	(20) 1	MANAGUA	(0) 26	QATAR	(0) 3
BANGKOK	(0) 7	GERMANY	(20) 1	MANILA	(0) 8		
BARBADOS	(30) 28	GEORGIA	(30) 27	MARYLAND	(30) 27	RAMSTEIN	(20) 1
BARCELONA	(20) 1	GHANA	(0) 0	MASSACHUSETTS	(30) 27	REDMOND	(30) 24
BASEL	(20) 1	GMT	(0) 0	McCHORD	(30) 24	RHODE ISLAND	(30) 27
BEIJING	(0) 8	GREECE	(20) 2	MCDILL AFB	(30) 27	RIO	(22) 29
BEIRUT	(16) 2	GREELY	(30) 23	MEDITERRANEAN	(20) 1	RIO DE JANEIRO	(0) 29
BERMUDA	(30) 28	GREENWICH	(0) 0	MELAKA	(0) 8	RIYADH	(0) 3
BOGOTA	(0) 27	GUAM	(0) 10	MELBOURNE	(13) 10	ROMANIA	(30) 2
BOMBAY	(10) 5	GUATEMALA	(0) 26	MEMPHIS	(30) 26	ROMEO	(30) 27
BOSNIA	(20) 1			MEXICO CITY	(1) 26	RUSSIA	(20) 3
BRAZIL	(22) 29	HAGUE	(20) 1	MIAMI	(30) 27		
BRUSSELS	(20) 1	HALIFAX	(30) 28	MICHIGAN	(30) 27	SALT LAKE CITY	(30) 25
BUDAPEST	(20) 2	HAWAII	(0) 22	MIDWAY	(30) 21	SAMOA	(0) 21
BUENOS AIRES	(0) 29	HELSINKE	(20) 2	MILAN	(20) 1	SAN DIEGO	(30) 24
		HICKAM	(0) 22	MILLINGTON	(30) 26	SAN FRANCISCO	(30) 24
CAIRO	(27) 2	HOLLAND	(20) 1	MINNESOTA	(30) 26	SANTIAGO	(23) 28
CALGARY	(30) 25	HONDURAS	(0) 6	MISAWA	(0) 9	SAO PAULO	(22) 29
CALIFORNIA	(30) 24	HONG KONG	(0) 8	MISSISSIPPI	(30) 26	SAUDI ARABIA	(0) 3
CANBERRA	(31) 10	HUNTSVILLE, AL	(30) 27	MISSOURI	(30) 26	SCOTLAND	(20) 0
CAPE TOWN	(0) 2	HURLBURT	(30) 27	MOLESWORTH	(20) 0	SCOTT AFB	(30) 26
CARACAS	(30) 28	HYDERABAD	(10) 5	MOMBASA	(0) 3	SEOUL	(0) 9
CAYAMAN ISLANDS	(0) 27			MONACO	(20) 1	SEATTLE	(30) 24
CENTCOM	(0) 3	ICELAND	(0) 0	MONTANA	(30) 25	SHANGHAI	(0) 8
CENTRAL	(30) 26	IDAHO	(30) 25	MONTREAL	(30) 27	SHEMYA	(30) 22
CENTRAL EUROPE	(20) 1	ILLINOIS	(30) 26	MOSCOW	(20) 3	SIERRA	(30) 26
CET	(20) 1	INCIRLIC	(20) 2	MOUNTAIN	(30) 25	SILICON VALLEY	(30) 24
CHENNAI	(10) 5	INDIA	(10) 5	MUMBAI	(10) 5	SINGAPORE	(0) 8
CHICAGO	(30) 26	INDIANA	(30) 27	MUNICH	(20) 1	SLOVENIA	(20) 1
CHILE	(23) 28	INDONESIA	(0) 8			SOMALIA	(0) 3
CHINA	(0) 8	IOWA	(30) 26	NAIROBI	(0) 3	SOUTH AFRICA	(0) 2
COLORADO SPRINGS	(30) 25	IRAN	(10) 3	NAPLES	(20) 1	SOUTH CAROLINA	(30) 27
COLOMBIA	(0) 27	IRAQ	(0) 3	NEBRASKA	(30) 26	SOUTH DAKOTA	(30) 26
COMALAPA	(0) 26	IRELAND	(20) 0	NETHERLANDS	(20) 1	SPAIN	(20) 1
CONNECTICUT	(30) 27	ISLAMABAD	(0) 5	NEVADA	(30) 24	ST. JOHN'S	(12) 28
COPENHAGEN	(20) 1	ISRAEL	(7) 2	NEW DELHI	(10) 5	ST. LOUIS	(30) 26
CURACAO	(0) 4	ISTANBUL	(20) 1	NEW HAMPSHIRE	(30) 27	STUTTGART	(20) 1
		ITALY	(20) 1	NEW JERSEY	(30) 27	SW ASIA	(0) 8
DAKAR	(0) 31			NEW MEXICO	(30) 25	SWITZERLAND	(20) 1
DALLAS	(30) 26	JAKARTA	(0) 7	NEW YORK	(30) 27	SYDNEY	(31) 10
DELAWARE	(30) 27	JAPAN	(0) 9	NEW ZEALAND	(32) 12		

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TAHITI	(0) 22
TAIPEI	(0) 8
TAIWAN	(0) 8
TAMPA	(30) 27
TEHRAN	(10) 3
TEL AVIV	(6) 2
TENNESSEE-NASH	(30) 26
TENNESSEE-KNOX	(30) 27
TEXAS	(30) 26
THAILAND	(0) 7
TIJUANA	(0) 26
TOKYO	(0) 9
TORONTO	(30) 27
TRAVIS AFB	(30) 24
TURKEY	(20) 2
TYRATAM	(20) 6
UAE	(0) 4
UKRAINE	(20) 2
UNITED KINGDOM	(20) 0
URUGUAY	(23) 29
UTAH	(30) 25
UTC	(0) 0
UZBEKISTAN	(0) 5
VANCOUVER	(30) 24
VENEZUELA	(30) 28
VERMONT	(30) 27
VIENNA	(20) 1
VIRGINIA	(30) 27
VLADIVOSTOK	(20) 10
WASHINGTON	(30) 24
WASHINGTON D.C.	(30) 27
WEST COAST	(30) 24
WEST VIRGINIA	(30) 27
WICHITA	(30) 26
WIESBADEN	(20) 1
WILLEMSTAD	(20) 1
WINNIPEG	(30) 26
WISCONSIN	(30) 26
WOOMERA	(13) 10
WYOMING	(30) 25
YOKOHAMA	(0) 9
YOKOTA	(0) 9
ZUG	(20) 1
ZULU	(0) 0
ZURICH	(20) 1