

ABOUT THIS MANUAL



(MODE)

- Button operations are indicated using the letters shown in the illustration.
- Each section of this manual provides you with the information you need to perform operations in each mode. Further details and technical information can be found in the "REFERENCE" section.

Warning!

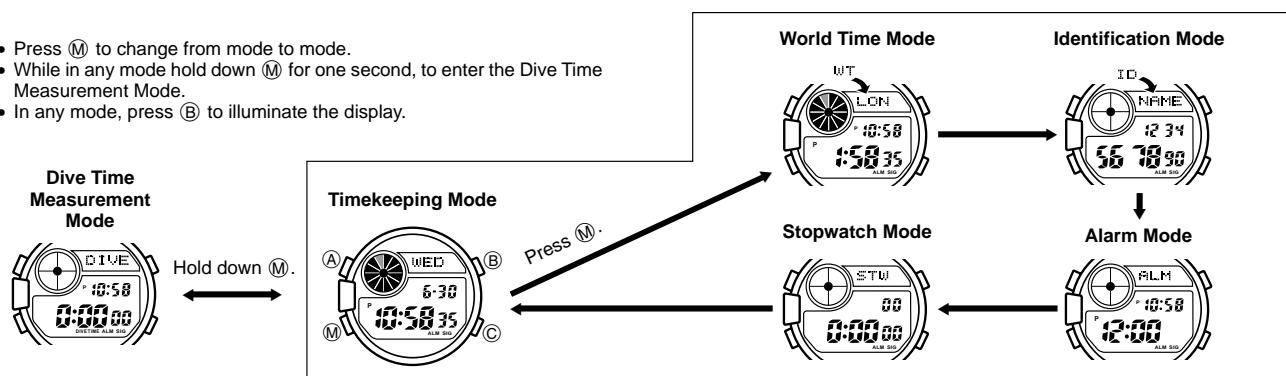
Note the following important points concerning Identification Mode data stored in the memory of this watch.

- SCUBA diver certificate number, passport number, and emergency contact number data stored in the memory of this watch can be misused whenever the watch is in the hands of another party.
- To protect against the misuse of SCUBA diver certificate number, passport number, and emergency contact number data, input them in coded form that cannot be understood by others.

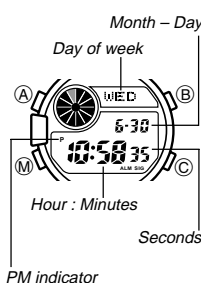
- Make sure you correctly input your name and blood type data. Once you input your data, take care that the watch is not borrowed by another person. Otherwise, emergency medical personnel may assume that your data applies to the person who borrowed the watch.
- The default blood type screen setting when you first purchase the watch or after you change the battery is "—" for the blood type and "Rh +" for the Rh factor. To avoid problems caused by display of the wrong blood type, we recommend that you input your correct blood type data as soon as possible after purchasing the watch and after having the battery replaced.
- CASIO COMPUTER CO., LTD. shall not be held liable to you or any third party for any losses or damages suffered through the misuse of data stored in the memory of this watch.

GENERAL GUIDE

- Press (M) to change from mode to mode.
- While in any mode hold down (M) for one second, to enter the Dive Time Measurement Mode.
- In any mode, press (B) to illuminate the display.



TIMEKEEPING MODE



In addition to normal timekeeping, use the Timekeeping Mode to set the current time and date. You can also view the Dive Time Measurement Mode log data.

- For details on how to view the log data, see "Viewing Log Data".

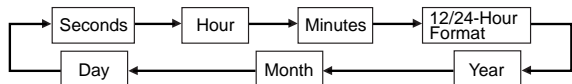
Calibrating the Seconds Count

1. In the Timekeeping Mode, hold down (A) until the seconds digits start to flash.
2. Press (C) to set the seconds count to 00.
 - Pressing (C) while the seconds count is in the range of 30 to 59 resets the seconds to 00 and add 1 to the minutes. In the range of 00 to 29, the minutes count is unchanged.
3. Press (A) to return to the current time screen.

Setting the Time and Date



1. In the Timekeeping Mode, hold down (A) until the seconds digits start to flash.
2. Press (M) to move the flashing in the sequence shown below to select other settings.

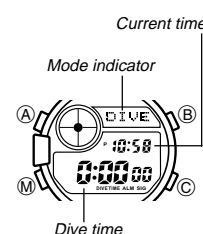


3. While hour, minutes, year, month, or day is flashing, press (C) to increase the setting or (B) to decrease it.
 - When the 12/24-hour setting is selected, press (C) to toggle between 12-hour (12:00) and 24-hour (24:00) timekeeping.
4. Press (A) to return to the current time screen.

Notes

- The day of the week is automatically displayed in accordance with the date (year, month, and day) settings.
- The year can be set in the range of 1995 to 2039.
- The watch's built-in full automatic calendar automatically make allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after the replacement of the watch's battery.

DIVE TIME MEASUREMENT MODE



The Dive Time Measurement Mode lets you measure the total time you spend underwater while diving or snorkeling, and the amount of time spent on the surface (surface interval). The watch also stores one set of diving time data (total dive time and dive start time) into log memory for later recall.

Warning!

For your own safety, never operate the buttons of the watch while underwater or while on the water's surface. Perform button operations in a safe place after leaving the water.

Before Diving/Snorkeling

- Be sure to check if the battery power is low (check for low light intensity, a dim display, or the flashing indicator). If it is, do not use the watch for diving/snorkeling.
- Make sure that the watch is set to the correct time.
- Check the glass, case and band for cracks or chips.
- Make sure that the band is fastened securely around your wrist.

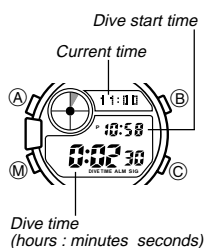
While Diving/Snorkeling

- Always use the "buddy system" when diving – never dive alone.
- Check to make sure that timer operation is being performed properly.
- Take care when diving/snorkeling near rocks or coral to avoid scratching the watch.

After Diving/Snorkeling

To avoid corrosion, rinse your watch thoroughly with fresh water to remove salt water, dirt, etc. When possible, soak the watch in fresh water overnight to make sure that all salt is removed.

Using the Dive Time Measurement Mode

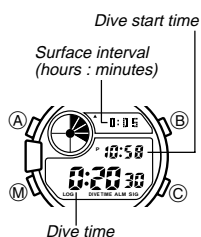


1. Before diving/snorkeling, switch to the Dive Time Measurement Mode by holding down (M) for at least one second.
2. To start the dive time measurement operation, press (C).
3. To stop the measurement, hold down (C) for at least one second (until the watch emits a long beep).
4. To re-start timing from the dive time shown on the display, press (C).
 - You can repeat steps 3 and 4 as many times as you like.
5. To clear the Dive Time Measurement Mode, stop the measurement operation (step 3, above) and then hold down (A) until the watch emits a beep.

Notes

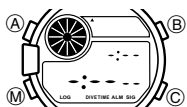
- The **P** indicator appears in the dive start time (center) display to indicate a p.m. time, but not in the current time (top) display.
- Timing of the surface interval starts whenever you hold down (C) to stop the dive time measurement operation in step 3, above. This timing is performed internally, and it is not indicated on the Dive Time Measurement Mode screen. For details on how to view surface interval data, see "Viewing Log Data".
- **Do not recall log data while a dive time measurement is stopped and you plan to re-start it.** If you do, the dive time to that point will be stored into memory and the data will be cleared when you exit the Dive Time Measurement Mode.

Viewing Log Data



1. Hold down (M) for at least one second to enter the Timekeeping Mode from the Dive Time Measurement Mode.
2. Hold down (C) to display the Log Data screen. The Log Data screen remains visible as long as you hold down (C). When you release (C), the normal Timekeeping Mode screen returns.
 - The surface interval continues to be timed until you re-start dive time measurement or until the surface interval reaches 24 hours.

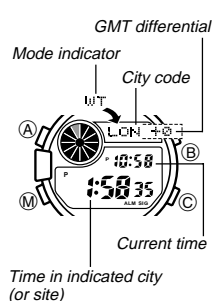
Clearing the Log Data Memory



Log data in memory is automatically replaced by the newest measurement. Use the following operation if you want to manually clear the log data memory.

1. While in the Timekeeping Mode, hold down (C) to display the Log Data screen.
2. While holding down (C), press (A) to clear the log data memory.
 - At this time, the display clears so that no data is shown.

WORLD TIME MODE



The World Time Mode shows the current time in 26 cities and 9 diving sites (27 time zones) around the world.

- The time settings of the Timekeeping Mode and the World Time Mode are independent from each other, so you must make separate settings for each.
- Whenever you change the time setting for any city (or site) in the World Time Mode, the settings of all other cities are changed accordingly.
- In the World Time Mode, the top line of the display scrolls to show the city code and GMT differential.
- A city code that corresponds to a diving site is preceded by the symbol "d".

Viewing the Time in Another Zone

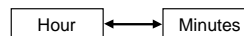
While in the World Time Mode, press (C) to scroll forward through the city codes (time zones).

- For full information on city codes, see the "CITY CODE TABLE".
- Pressing (B) while in the World Time Mode causes the current city code and GMT differential to scroll across the display. It also turns on the backlight.

Setting the World Time



1. In the World Time Mode, press (C) to scroll through the city code and find the one you want.
2. Hold down (A) until the hour digits of the world time start to flash.
3. Press (M) to move the flashing in the following sequence.

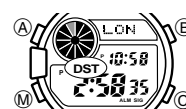


4. While hour or minutes is flashing, press (C) to increase the setting or (B) to decrease it.
 - When setting the world time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (P indicator).
5. Press (A) to return to the World Time screen.

Daylight Saving Time (DST)

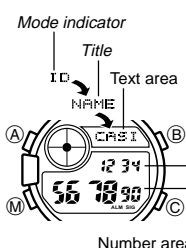
Daylight Saving Time automatically advances the time setting by one hour from Standard Time. You can make individual Daylight Saving Time settings for each city code (time zone). Remember that not all countries or even local areas use Daylight Saving Time.

To switch between Standard Time and Daylight Saving Time



1. In the World Time Mode, press (C) to display the city code (time zone) whose standard time/daylight saving time setting you want to change.
2. Hold down (B) to toggle between Daylight Saving Time (**DST** displayed) and Standard Time (**DST** not displayed).
 - The **DST** indicator is on the display whenever you display a city code for which daylight saving time is turned on.

IDENTIFICATION MODE



With the Identification (ID) Mode, you can store your name, SCUBA diver certificate number, emergency contact number, passport number, and blood type. There is also memory for five general memo text records.

About Identification Mode Data

- The Identification Mode has five pre-programmed data titles: **NAME** (name), **C CARD** (SCUBA diver certificate number), **EMERGENCY NO.** (emergency contact number), **BLOOD TYPE** (blood type), and **PASSPORT** (passport number).
- Except for **BLOOD TYPE**, you can input 16 characters (letters, numbers, symbols) in the text area and 10 digits in the number area.
- In the case of **BLOOD TYPE**, you can input a blood type (ABO) and Rh factor.

Viewing Identification Mode Data

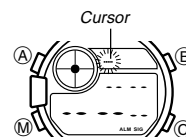
In the Identification Mode, each press of (C) scrolls through the data in the sequence shown below.



- In the Text Area, the title alternates with the input text.
- No title is displayed in the text area of the new data screen, so you can input your own title.
- User Data appears only if you have created your own title and input data. This item is skipped if there is no user data in memory.
- The New Data screen does not appear if there is already data input for all five of the user data entries.

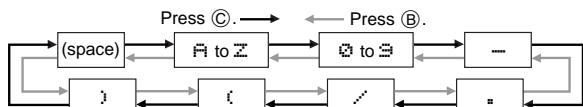
Inputting Text and Numbers

The following procedure is the same for **NAME**, **C CARD**, **EMERGENCY NO.**, and **PASSPORT**, and your original data.

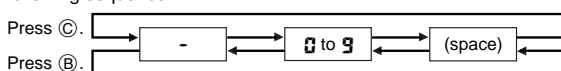


1. In the Identification Mode, display the title of the data you want to input.
 - Display the New Data screen when you want to create your own title.
 - The new data screen is the one that contains no text or numbers.
2. Hold down (A) until the cursor appears in the text area.
 - If you do not want to input text into the text area, hold down (M) for at least one second to move the cursor to the number area and jump to step 7.

- Use **B** and **C** to change the character at the cursor position in the text area. The character changes in the following sequence.

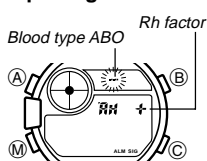


- When the character you want is at the cursor position, press **M** to move the cursor to the right.
- Repeat the steps 3 and 4 until your text is complete.
- After you input text, use **M** to move the cursor to the number area.
 - Holding down **M** for at least one second causes the cursor to jump between the text area and number area.
 - The text area in the Identification Mode can hold up to 16 characters. When the cursor is located at the 16th space of the text area, moving the cursor to the right causes it to jump down to the first digit in the number area. When the cursor is at the 10th digit of the number area, moving it to the right causes it jump back up to the first character of the text area.
- Use **B** and **C** to change the character (hyphen, number, or space) at the cursor position in the number area. The character changes in the following sequence.

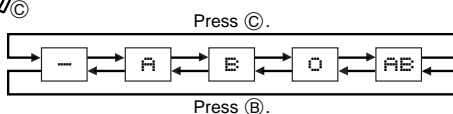


- When the character you want is at the cursor position, press **M** to move the cursor to the right.
- Repeat steps 7 and 8 until you complete number input.
- Press **A** to store your data and return to the Identification Mode data screen (without the cursor).

Inputting Your Blood Type



- In the Identification Mode, display the **ELOOD TYPE** title.
- Hold down **A** until the blood type ABO starts to flash.
- Use **B** and **C** to scroll through the available blood type in the following sequence.



- Press **M** to advance to specification of the Rh factor.
 - At this time the current Rh factor (- or +) will flash on the display.
- Press **C** to select either - (negative) or + (positive).
- Press **A** to store your data and return to the **ELOOD TYPE** screen.

Editing Identification Mode Data (except Blood Type Data)

- In the Identification Mode, scroll through the data and display the one you want to edit.
- Hold down **A** until the cursor appears in the text area.
- Use **M** to move the cursor to the character you want to change.
- Use **B** and **C** to change the character.
 - For details on inputting characters, see "Inputting Text and Numbers" (step 3 for text input and 7 for number).
- After making the changes that you want, press **A** to store them and return to the Identification Mode data screen.

Deleting Identification Mode Data (except Blood Type Data)

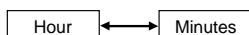
- In the Identification Mode, scroll through the data and display the one you want to delete.
- Hold down **A** until the cursor appears in the text area.
- Press **B** and **C** at the same time to clear the data.
 - At this time the cursor appears in the text area, ready for input.
- Input data or press **A** to return to the Identification Mode data screen.

ALARM MODE

You can set a Daily Alarm that sounds at the same time each day, while it is turned on. You can also turn on an Hourly Time Signal that causes the watch to beep twice every hour on the hour.

Setting the Alarm Time

- In the Alarm Mode, hold down **A** until the hour digits of the alarm time start to flash.
 - This operation automatically turns on the Daily Alarm.
- Press **M** to move the flashing in the following sequence.



- While hour or minutes is flashing, press **C** to increase the setting or **B** to decrease it.
 - When setting the alarm time using the 12-hour format, take care to set the time correctly as a.m. (no indicator) or p.m. (**P** indicator).
- Press **A** to return to the alarm display screen.

Daily Alarm Operation

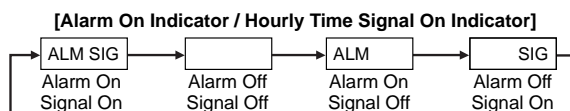
The alarm sounds at the preset time each day for about 20 seconds, or until you stop it by pressing any button.

To test the alarm

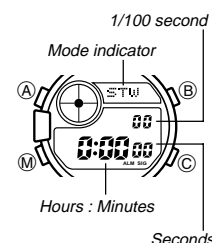
Hold down **C** to sound the alarm.

Turning the Daily Alarm and Hourly Time Signal on and off

In the Alarm Mode, press **C** to cycle through the on and off settings as shown below.

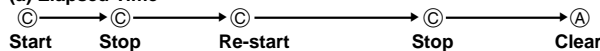


STOPWATCH MODE

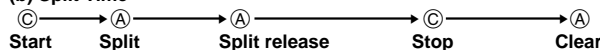


The Stopwatch Mode lets you measure elapsed time, split times, and two finishes. The range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.

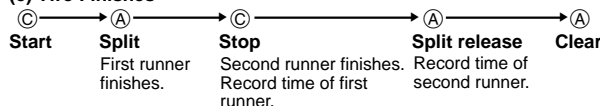
(a) Elapsed Time



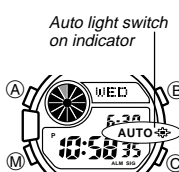
(b) Split Time



(c) Two Finishes



BACKLIGHT



The backlight uses an EL (electro-luminescent) panel that causes the entire display to glow for easy reading in the dark. The watch's auto light switch automatically turns on the backlight when you angle the watch towards your face.

- The auto light switch must be turned on (indicated by the auto light switch on indicator) for it to operate.

Turning on the Backlight manually

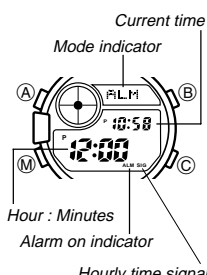
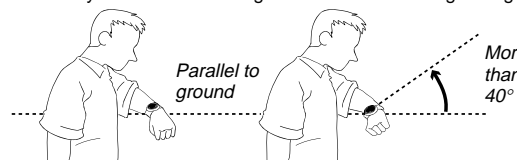
- In any mode, press **B** to illuminate the display for about two seconds.
- The above operation turns on the backlight regardless of the current auto light switch setting.

About the Auto Light Switch

Turning on the auto light switch causes the backlight to turn on for about two seconds, whenever you position your wrist as described below in any mode.

- See "Backlight Precautions" for other important information about using the backlight.




Moving the watch to a position that is parallel to the ground and then tilting it towards you more than 40 degrees causes the backlight to light.



Warning!

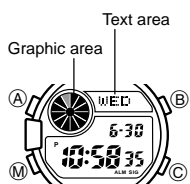
- Never try to read your watch when mountain climbing or hiking in areas that are dark or in areas with poor footing. Doing so is dangerous and can result in serious personal injury.
- Never try to read your watch when running where there is danger of accidents, especially in locations where there might be vehicular or pedestrian traffic. Doing so is dangerous and can result in serious personal injury.
- Never try to read your watch when riding on a bicycle or when operating a motorcycle or any other motor vehicle. Doing so is dangerous and can result in a traffic accident and serious personal injury.
- When you are wearing the watch, make sure that its auto light switch is turned off before riding on a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury.

To turn the auto light switch on and off

- In the Timekeeping Mode, hold down **(B)** for two seconds to turn the auto light switch on (AUTO  displayed) and off (AUTO  not displayed).
- In order to protect against running down the battery, the auto light switch is automatically turned off approximately four hours after you turn it on. Repeat the above procedure to turn the auto light switch back on if you want.
 - The auto light switch on indicator (AUTO ) is on the display in all modes while the auto light switch is turned on.

REFERENCE

This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch.

Graphic Area and Text Area

- The graphic area shows the passage of minutes in the Timekeeping, Dive Time Measurement, World Time, and Stopwatch Modes, and the Log Data screen. A segment appears in the graphic area each time five minutes pass.
- The text area can show up to four characters, so longer text scrolls continually from right to left.

- In the Timekeeping Mode, an animated figure appears in the text area at 00 and 30 seconds, and whenever the backlight is turned on.

Auto Return Feature

- After you perform an operation in any mode (except for the backlight operation), pressing **(M)** returns to the Timekeeping Mode.
- If you leave a screen with flashing digits or cursor on the display for two or three minutes without performing any operation, the watch automatically saves anything you have input up to that point and exits the setting screen.

Data and Setting Scrolling

The **(B)** and **(C)** buttons are used in various modes and screens to scroll through data on the display. In most cases, holding down these buttons during a scroll operation scrolls through the data at high speed.

12-hour/24-hour Timekeeping Formats

The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is also applied in the Dive Time Measurement, World Time, and Alarm Modes.

- With the 12-hour format, the **P** (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 pm. No indicator is shown from midnight to 11:59 am.
- With the 24-hour format, times are indicated in the range of 00:00 to 23:59, with **24** indicator.

World Time Mode

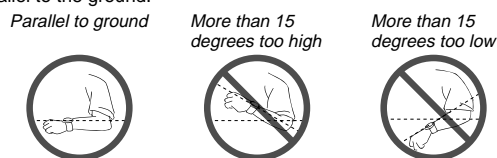
- The GMT differential is the time difference of the time zone where the city is located from Greenwich Mean Time.
- The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode.
- GMT differential is calculated by this watch based on Universal Time Coordinated (UTC) data.
- The time zone that is displayed when you leave the World Time Mode will still be displayed when you enter the World Time Mode again.

Backlight Precautions

- The electro-luminescent (EL) panel loses illuminating power after very long use.
- The illumination provided by the backlight may be hard to see when viewed under direct sunlight.
- The watch will emit an audible sound whenever the display is illuminated. It does not indicate malfunction of the watch.
- The backlight automatically turns off whenever an alarm sounds.


Auto light switch precautions




- Avoid wearing the watch on the inside of your wrist. Doing so causes the auto light switch to operate when it is not needed, which shortens battery life. If you want to wear the watch on the inside of your wrist, turn off the auto light switch feature.
- The backlight may not light if the face of the watch is more than 15 degrees off the parallel as shown below. Make sure that the back of your hand is parallel to the ground.



- The backlight turns off in about two seconds, even if you keep the watch pointed towards your face.
- Static electricity or magnetic force can interfere with proper operation of the auto light switch. If the backlight does not light, try moving the watch back to the starting position (parallel with the ground) and then tilt it back toward you again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again.
- Under certain conditions the backlight may not light until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the backlight.

About the Battery

Whenever battery power is below a certain level, the flashing  indicator appears, display characters appear dim, the backlight may fail to light, the alarm may fail to sound and the auto light switch does not operate. For safety reasons, the watch will not enter the Dive Time Measurement Mode when battery power is low. This is indicated by the message **EFTT** appearing when you hold down **(M)** to enter the Dive Time Measurement Mode. Using the watch while the battery is low can result in abnormal operation.

Even when the battery power is not low, backlight, alarm, and other sustained high-power consumption operations can cause the flashing  indicator to appear temporarily. In this case, the  indicator should disappear from the display in about 10 minutes. However, note that the above listed functions, which are normally disabled when battery power is low, are also disabled while the  indicator is temporarily flashing on the display.

CITY CODE TABLE

City Code	City	GMT Differential	Other major cities in same time zone
LON	LONDON	+00	DUBLIN, LISBON, CASABLANCA, DAKAR, ABIDJAN
PAR	PARIS	+01	MILAN, ROME, MADRID, AMSTERDAM, ALGIERS, HAMBURG, FRANKFURT, VIENNA, STOCKHOLM, BERLIN
IST RED SEA	ISTANBUL RED SEA	+02	CAIRO, JERUSALEM, ATHENS, HELSINKI, BEIRUT, DAMASCUS, CAPE TOWN
JED	JEDDAH	+03	KUWAIT, RIYADH, ADEN, ADDIS ABABA, NAIROBI
THR	TEHRAN	+3.5	SHIRAZ
DXB MAURITIUS	DUBAI MAURITIUS	+04	ABU DHABI, MUSCAT
KBL	KABUL	+4.5	
KHI	KARACHI	+05	
MALDIVES	MALDIVES		
DEL	DELHI	+5.5	MUMBAI, CALCUTTA
DAC	DHAKA	+06	COLOMBO
RGN	YANGON	+6.5	
BKK	BANGKOK	+07	JAKARTA, PHNOM PENH, HANOI, VIENTIANE
HKG	HONG KONG	+08	SINGAPORE, KUALA LUMPUR, BEIJING, TAIPEI, MANILA, PERTH, ULAANBAATAR
TYO	TOKYO	+09	SEOUL, PYONGYANG
ADL	ADELAIDE	+9.5	DARWIN
SYD GBR GUAM	SYDNEY GREAT BARRIER REEF GUAM	+10	MELBOURNE, RABAU
NOU	NOUMEA	+11	PORT VILA
WLG	WELLINGTON	+12	CHRISTCHURCH, NADI, NAURU ISLAND
PPG	PAGO PAGO	-11	
HAWAII TAHITI	HAWAII TAHITI	-10	HONOLULU, PAPEETE
ANC	ANCHORAGE	-09	NOME
LAX	LOS ANGELES	-08	SAN FRANCISCO, LAS VEGAS, VANCOUVER, SEATTLE, DAWSON CITY
DEN	DENVER	-07	EL PASO, EDMONTON
CHI	CHICAGO	-06	HOUSTON, DALLAS/FORT WORTH, NEW ORLEANS, MEXICO CITY, WINNIPEG
GALAPAGOS	GALAPAGOS		
NYC	NEW YORK	-05	MONTREAL, DETROIT, MIAMI, BOSTON, PANAMA CITY, HAVANA, LIMA, BOGOTA
CAYMAN	CAYMAN		
CCS	CARACAS	-04	LA PAZ, SANTIAGO, PORT OF SPAIN
RIO	RIO DE JANEIRO	-03	SAO PAULO, BUENOS AIRES, BRASILIA, MONTEVIDEO

* Based on data as of June 1998.