LOCOSYS GW-60

Quick Start Guide

ADJUST/↵

START/▲

GPS Function

MODE/BACK

RESET/▼

GPS Antenna

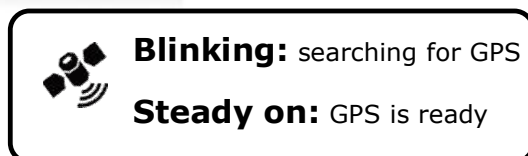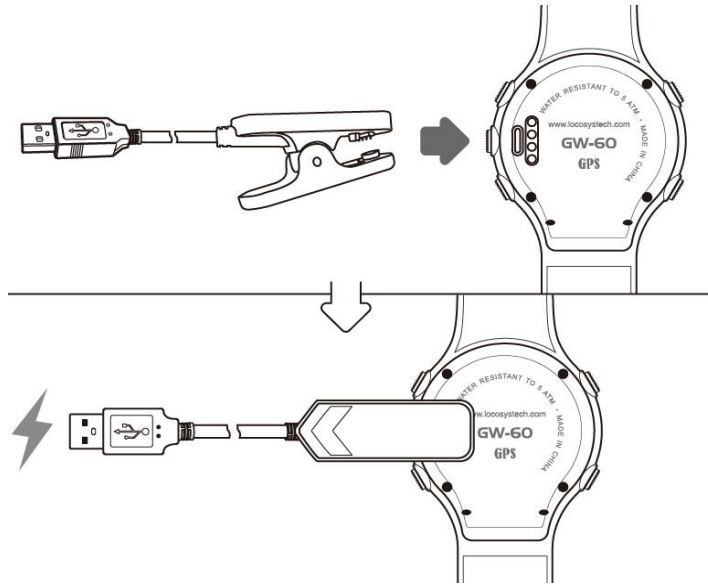|			
🔔	**Alarm status**	📡	**Blinking:** searching for GPS **Steady on:** GPS is ready
🔋	**Battery level**	⚡	**Charging**
🔋	**Full charge**		

Section 1. Brief Introduction

1.1

Before operating your GW-60, clip the device and full-charge it with **DC +5V/500mA** charger for at least 3~4 hours.

1.2

Press **MODE/BACK** to select Time modes

(1) CLOCK; (2) ALARM; (3) STOPWATCH; (4) TIMER

1.3

Press **ADJUST/↵** to setting page.

1.4

Press **GPS** to GPS mode. GPS signal will be searched

automatically.

1.5   Backlight: Hold **MODE/BACK** for 2 sec.
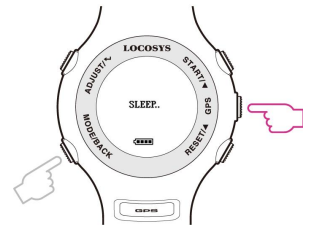
(Press any key to extend backlight time)

1.6   Lock screen: **START**+**MODE**, press again to unlock.

1.7   Sleep mode: Hold **GPS** for 1 sec to sleep mode.

At clock mode, GW-60 will turn to sleep mode in 15sec.

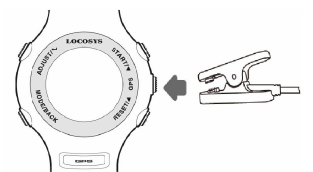**Tip:** Press **MODE/BACK** to wake up the watch.

1.8   Deep sleep mode: Optimized power saving function.

GW-60 will enter deep sleep mode around 10 days

without using.

At deep sleep mode, GW-60 **cannot** be turned on by

pressing **MODE/BACK** button.

Note: Please wake up GW-60 by connecting USB cable

before your ride.

Section 2. Time Mode

2.1   **Clock Mode**

Display local time based on the GMT setting.

Tip: Quick clock time setup for first time usage.

(1) GMT Setting: Refer to 3.6

(2) GPS Time Synchronization: Under open sky

environment, switch to **GPS** mode and wait until there is

GPS fix. GW-60 will automatically synchronize to precise

GPS UTC time.

2.2   **Alarm Mode**

- Press **ADJUST/↵** to adjust alarm time.

- Press **▲** / **▼** button to select numbers and **ADJUST** / **BACK** to start/end adjustment.

2.3   **Stopwatch Mode**

- Press **START** to start counting time and press again to pause.

- Press **RESET** to reset counting time to "00:00$_{00}$".

- Press **MODE/BACK** to exit.

2.4   **Timer Mode**

- Press **ADJUST** to start adjusting timer.

- Press **▲** / **▼** to change numbers and **MODE/BACK** button to end adjustment.

- Press **START** to start counting down and press again to pause.

- Press **RESET** to restart timer

4

Section 3. Setting

3.1 **Setting page:**

ADJUST/↵: Enter edit mode/ Confirm.

▲: Up.

▼: Down.

MODE/BACK: Exit edit mode/ Cancel.

3.2 **RESET DISP:** Command to clear top speed records or

traveled distance.

ALL

DISTANCE

5#NSEC

TOP RSLT

3.3 **AUTO SLEEP:** If enabled, the GW60 will go into sleep

mode(LCM off) to save power if there is no key pressed

for 15 seconds in "TIME NOW" SCREEN.

Hold "GPS" key for 2 seconds to go to sleep mode

Hold "BACK" key for 2 seconds to exit sleep mode

O: On/ Enable

X: Off/ Disable

3.4 **BUZZER:** set buzzer/ sound.

O: On/ Enable

X: Off/ Disable

3.5   **LOGGING:** Log rate setting.

OFF : No logging.

1HZ : When speed over [MIN SPEED], log rate in 1HZ.

5HZ : When speed over [MIN SPEED], log rate in 5HZ.

SMART:

When speed over [MIN SPEED] but less than [SPD GENIE], 1 HZ log rate.

When speed over [MIN SPEED] but more than [SPD GENIE], 5 HZ log rate.

Note: This saves memory at low speed and gives more precious data where it's needed, but some software uses changes in log rates as an error filter. This may cause alphas to be rejected if log rate changes during the gybe.

3.6   **MIN SPEED (MIN SPD):** Speed threshold, only logged speed above [MIN SPEED].

Available number: 0 to 15 [UNIT].

Sets the speed when logging starts. Under [MIN SPEED] there is no logging.

3.7   **UNIT:** Speed measurement unit.

KM : Kilometer.

MI : Mile.

NM : Nautical mile.

3.8   **GMT:** Set GMT/Time zone, e.g. +8:00 for Taipei.

Available number: GMT-12:00 to GMT+13:00.

3.9   **AVG NSEC:** Time interval for speed averaging.

Available value: 1 sec to 60 sec.

Default 10 seconds

3.10   **AVG MSEC:** Time interval for speed averaging.

Available value: 1 sec to 60 sec.

Default 2 seconds

3.11   **SPEED GENIE (SPD GENIE):** Auto-speed report,

setting the minimum speed threshold to initiate [SPD

GENIE].

Note: For alphas [SPD GENIE] needs to be set below the

minimum gybe speed.

For speed runs, set lower than the downwind speed but higher

than the upwind speed.

Available number: 0 to 63 [UNIT].

3.12   **ACTION SPEED (ACT SPD):** Speed display type

♦ SPEED : Current speed (200ms average)

♦ MAX: maximum speed

♦ NSEC: N-second average speed(N=[AVG NSEC])

♦ MSEC: M-second average speed(M=[AVG MSC])

♦ &500: Alpha 500 meter run

♦ 100M:100 meter run

♦ 250M: 250 meter run

♦ 500M: 500 meter run

Example:

3.13   **RSLT1A~RSLT4B:** Speed result selection options (Screen 1~4).

These are 4 speed genie windows which scroll once speed goes above and then under [SPD GENIE] setting. Each window has two sub-screens: A(top half) and B(bottom half).

Each window has two possibilities, a split screen showing two results in small font, or a single display of one result in big font.

To achieve the big font single display set A and B to the same category (speed type) for that screen number.

To achieve the split screen set A and B to different categories for that screen number.

Each screen can assign one or two of the following speed types:
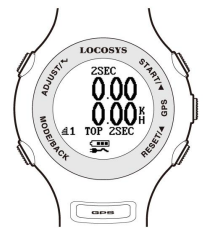
RSLT1A/1B

RSLT2A/2B

RSLT3A/3B

♦ MAX: maximum speed

♦ NSEC: N-second average speed(N=[AVG NSEC])

♦ MSEC: M-second average speed(M=[AVG MSC])

♦ &500: Alpha 500 meter run

♦ 100M:100 meter run

♦ 250M: 250 meter run

♦ 500M: 500 meter run

♦ TOP (RSLT1B~RSLT4B): history max speed

♦ X (RSLT3B~RSLT4B): screen disabled

♦ Speed result setting example:

RSLT1A=MSEC	RSLT1B=TOP
RSLT2A=NSEC	RSLT2B=TOP
RSLT3A=&500	RSLT3B=TOP
RSLT4A=MAX	RSLT4B=X
RSLT DIST=O	RSLT TIME=O
AVG NSEC= 10S	AVG MSEC=2S

3.14   **RSLT DIST:** Option to include "DISTANCE" screen in speed result report (Screen 5).

    O: On/ Enable

    X: Off/ Disable
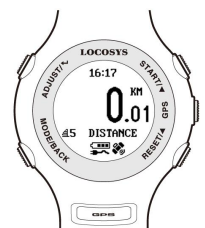
3.15   **RSLT TIME:** Option to include "TIME" screen in speed result report (Screen 6).

    O: On/ Enable

    X: Off/ Disable

3.16   **DIST UNIT:** Distance measurement unit.

KM: Kilometer.

MI: Mile.

NM: Nautical mile.

3.17   **SCROLL:** Set scroll seconds in speed report

Available number: 1 sec to 2.5 sec.

3.18   **USB CLASS:** Connection type

COM: Virtual COM PORT for Windows platform user.

UMS: USB Mass Storage for non-Windows platform user.

(Note: Set UMS before entering "MSC mode" on 3.14)

3.19   **TO USB MSC:** Connection by Mass Storage Class (MSC)

mode mainly for non-Windows platform user.

Tip: How to get GPS data in USB MSC mode

(1) Set "USB CLASS" option to "UMS" first.

(Note: Before setting, the USB charging cable MUST be

disconnected.)

(2) Connect to USB, and press **ADJUST/⏎** "TO USB

MSC" to enter USB MSC state.

(3) Find a new flash drive with a READ only file—

 GPSLOG.SBP on your host PC.

(4) Remove USB cable to exit.

3.20   **SCREEN FLIP:** Option to display screen upside down.

X: Off/ Disable

O: On/ Enable

3.21   **TIME FMT:** Option to select time format for display
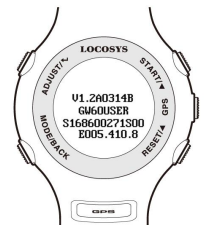
12H: AM/PM

24H
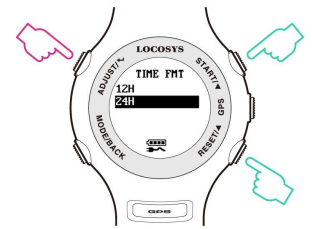
3.22   **FIRMWARE VERSION:** check device status

Firmware Version: VX.XXXXXX

User Name: XXXXXX

Serial Number: SXXXXXXXX

GPS Version: XXXX

Note: In **"ACT SPEED"** screen, users can access **"STOPWATCH"** and **"TIMER"** functions

by pressing **"MODE"** key

Section 4. GPS Mode

4.1   Action Speed: Display current instant speed or N-sec. average speed.

- Vertical Bar: Log memory usage.

- Horizontal Bar: Speed accuracy indicator. (Long bar means good signal)

- Symbol ■ :No logging data

- Symbol ▶: logging data

- Press ▲ / ▼: scroll to next page or previous page.

- Delete all logging data: In"ACT SPEED"screen, press ADJUST/↵, there will be"DEL LOG?" message to remind the data delete.

- In "ACT SPEED" screen, users can access "STOPWATCH" and "TIMER" functions by pressing "MODE" key. As the timer counts down the progress bar at the top of the screen gets smaller, and when it times out the display reverses colour.

GPS searching

GPS fixed
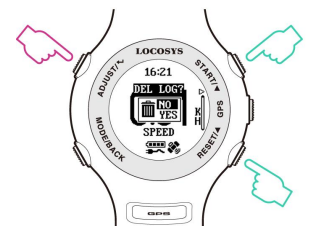
Delete log data

TIMER

Times up

4.2

5 # NSEC: Display N-second average speed report.

● Press **MODE/BACK**: display in big font

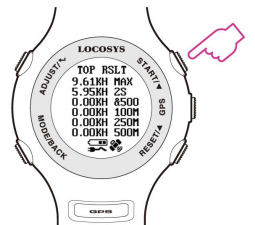● Press **ADJUST/↵**: Delete all report
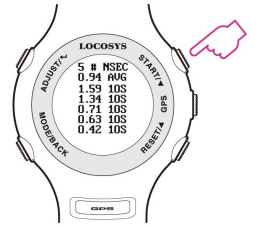
Small Font

Big Font

Delete log data

4.3

TOP RSLT: Display top results for each run

● Press **MODE/BACK**: display in big font

● Press **ADJUST/↵**: Delete all report

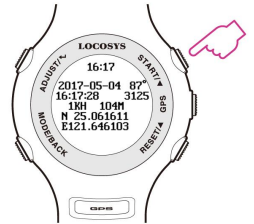Small Font

Big Font

Delete log data

4.4   **RSLT1~RSLT4:** Refer to 3.13 example (P.8-P.9)

4.5   **DISTANCE:** Display distance traveled when data logging. Refer to 3.13 example (P.9)

4.6   **TIME:** Refer to 3.13 example (P.9)

4.7   **PVT:** Display position, velocity, and time

- Press ▲ / ▼ to next page/ previous page.

4.8   **Radar View:** Displays the available satellites in a graphical form, numbers of available satellites, tracked satellites and DOP.
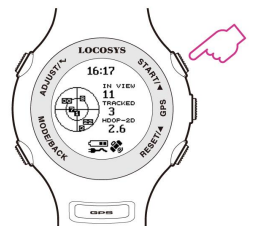
4.9   **Satellite Signal:** Displays the satellite number of tracked, available satellites and the C/No value of each satellite in bar chart.

Section 5. GW-60 PC Utility (Windows platform only)

5.1 **Device connection procedure : (Make sure USB driver is installed)**

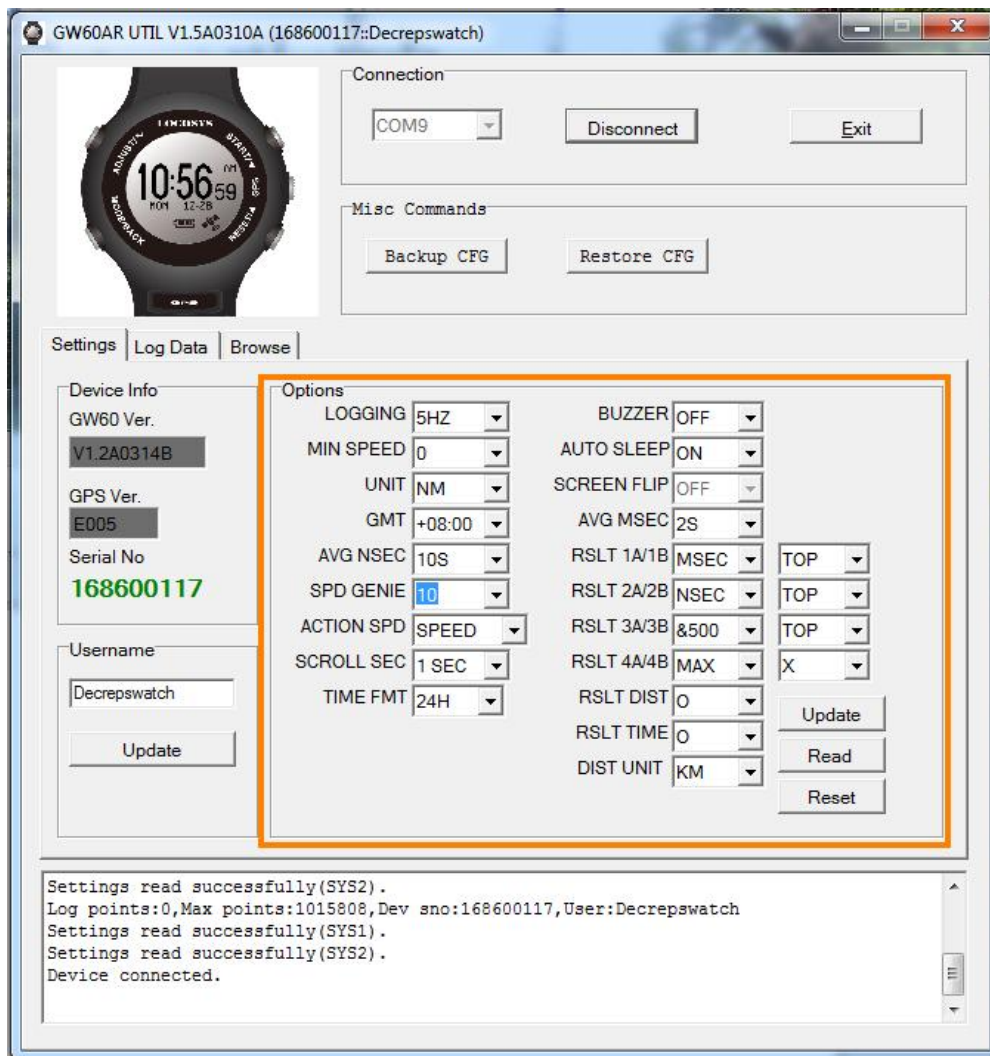(1) Select <u>COM port</u> properly.

(2) Click "Connect" to connect device.

Once the device is connected, the firmware version will be displayed.

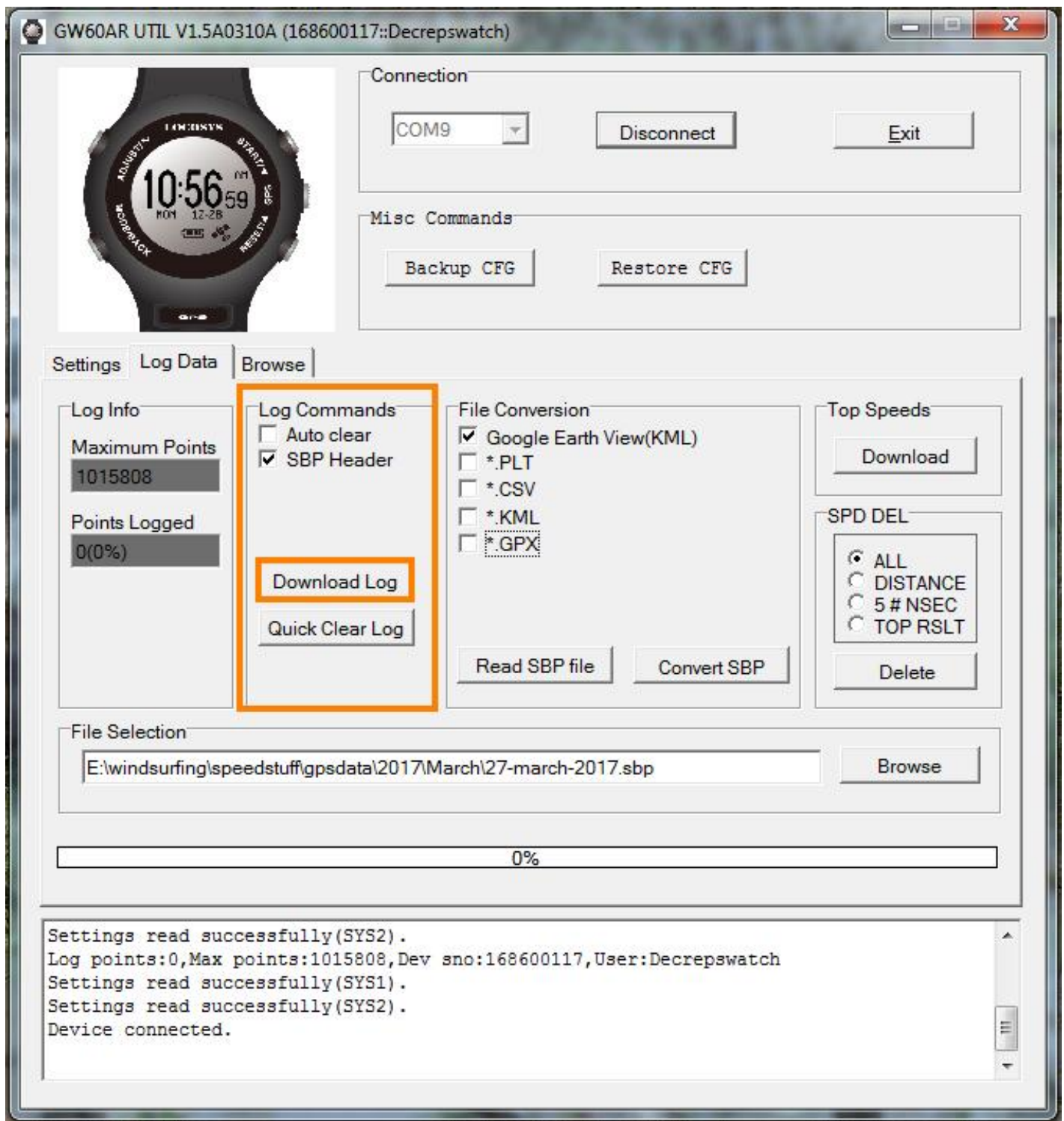(Note: click **"Disconnect"** before unplugging the USB cable.)

5.2 Click "**Settings**" to select setting function page.

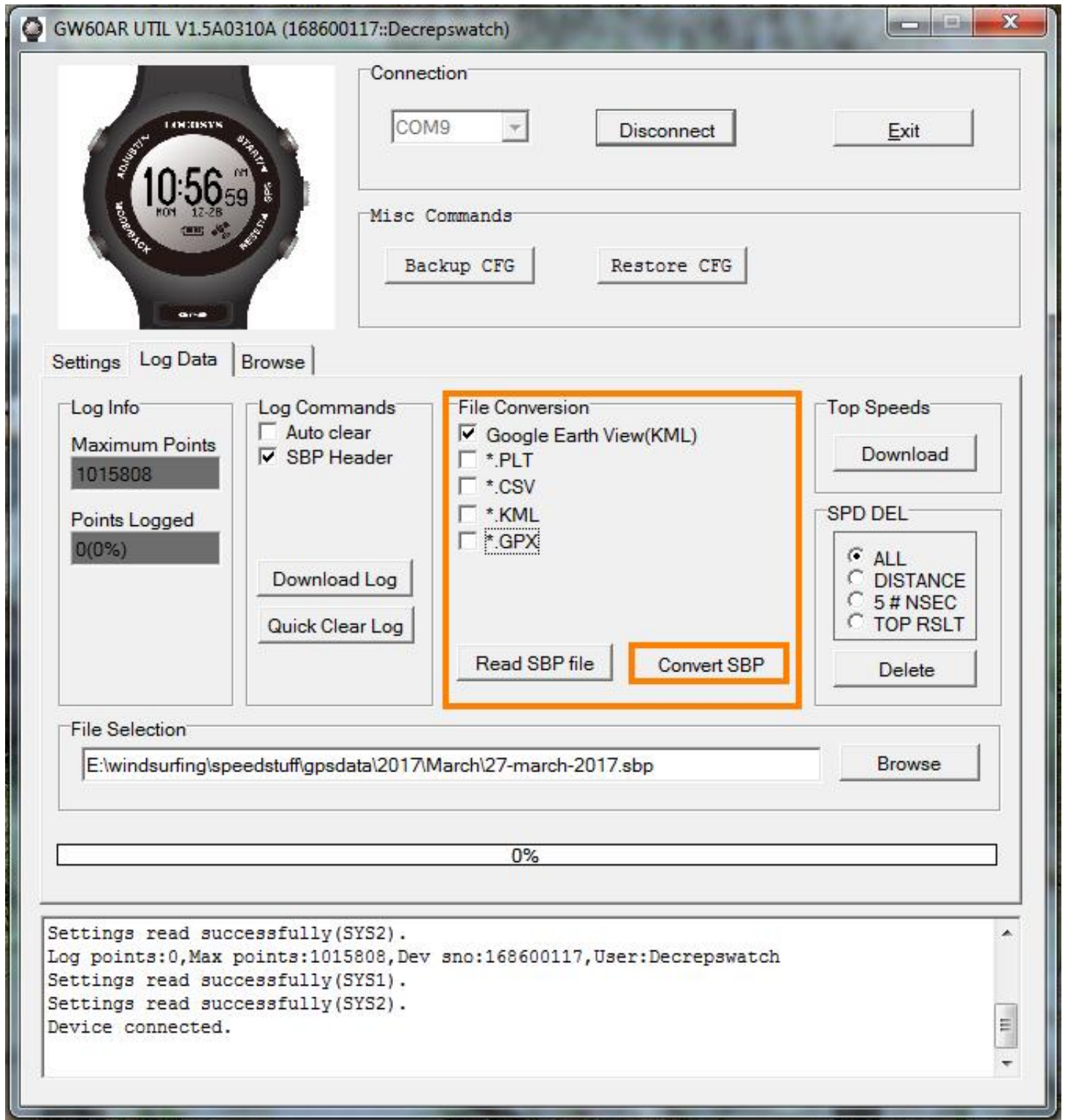In setting function page, users can change username, UTC offset, log interval….

www.locosystech.com

5.3   Click "Log Data" to select log function page.

In this page, users can see "Log Info", and be able to download log data
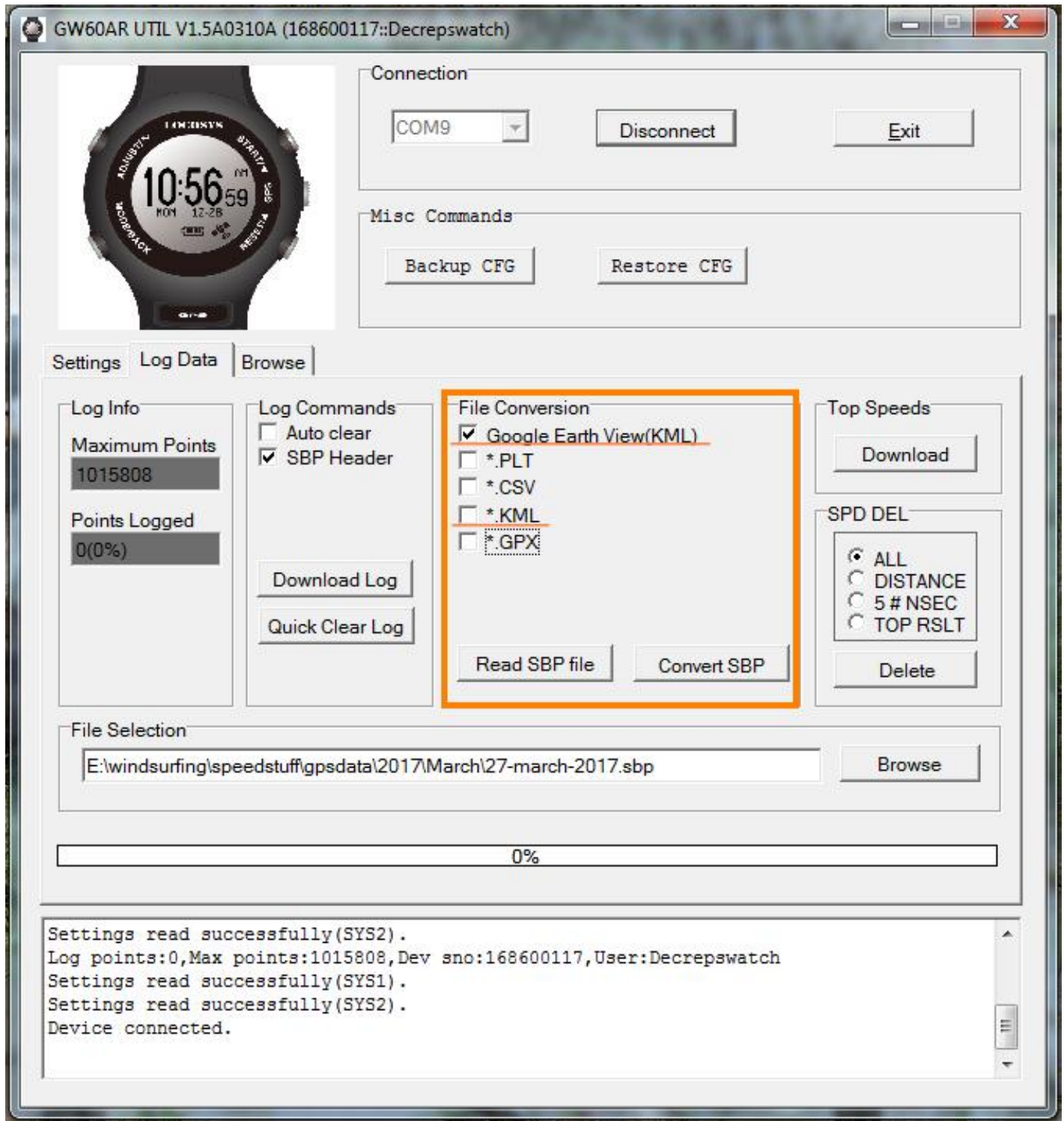
(in SBP format).

5.4   Click "Convert Log" to convert the SBP file into PLT, CSV, KML and GPX files.

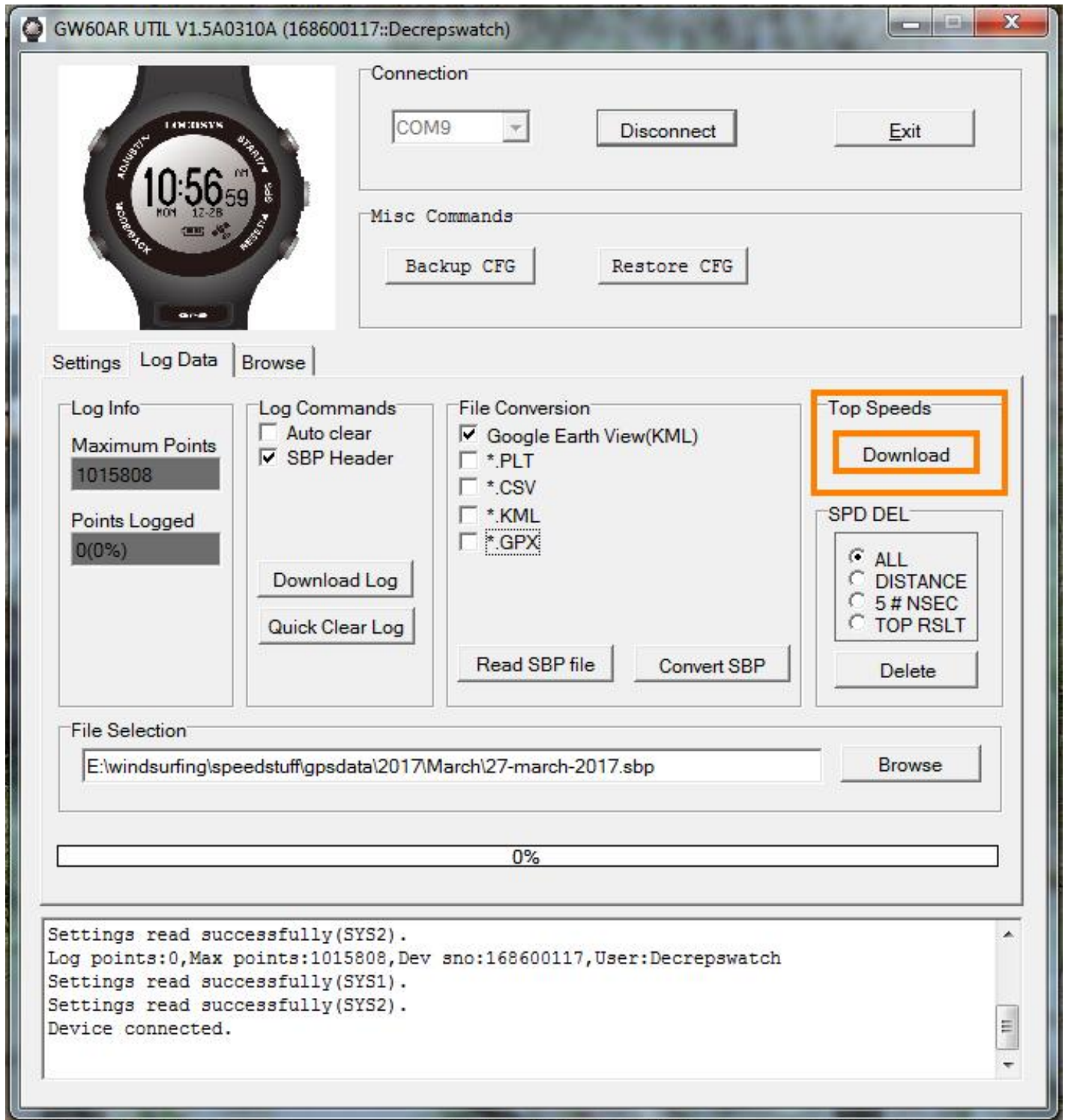(Check [✓] Google Earth View to see the travel trajectory)

5.5   Click "Google Earth View" to link with Google Earth Viewer.

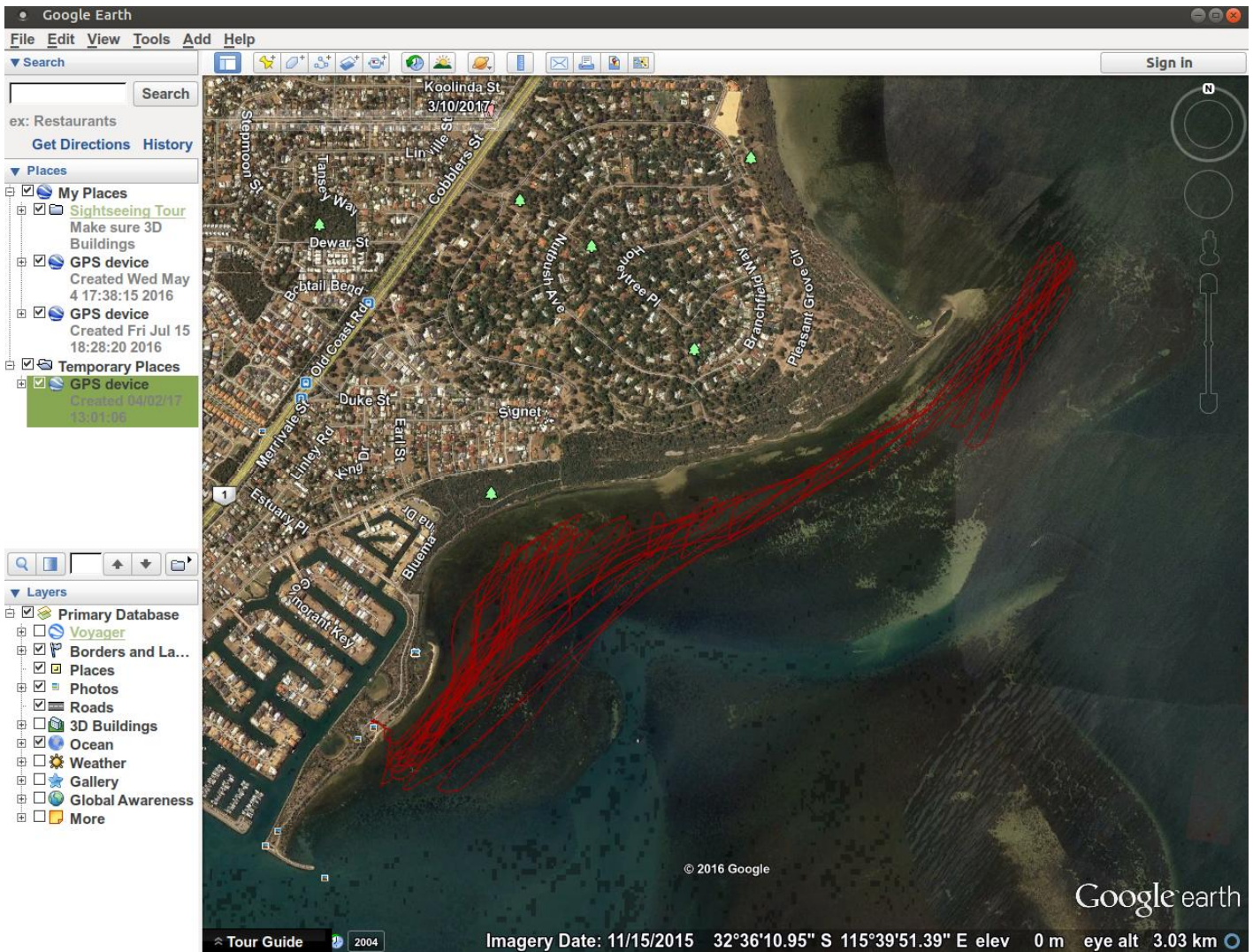**5.6**   Click "Download" to download the TOP 10 Speeds in SBP file.

www.locosystech.com

5.7   Click "Browse" to view logged data.

Click item number to link up Google Map.

5.8   Click the SBP record in the browse page to view the point on Google Map.

Or, to view the converted GPX and KML files on Google Earth.

Section 6. Maintenance & Support service

All GW-60 go through inspections before users have it. In this section, we will explain how to prevent the malfunctions, and how to care for the watch.

1. Do not operate buttons under water.

2. Do not operate the device in extreme temperatures.

3. To avoid the pogo pins getting rusty, and affecting the function of charging and connection to PC or laptop, after using the device:

    1) Wash it lightly in tap water

    2) Wipe all moisture with a dry cloth, and cotton buds clean the water on pogo pins

    3) Allow it air dry.
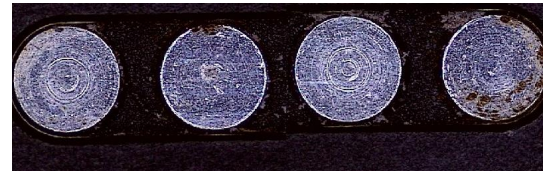
Pogo pins

Rusty pogo pins

4. Do not clean the device with spray cleaners, alcohol, thinners, gasoline, organic solvents, aerosol sprays and paint.

5. Do not drop the device or any abuse treatment.

6. If the consumption parts (e.g. panel, buttons, strap, free loops, buckles, and seals) are damaged by misuse, hit, scratch, and affect the normal operation on GW-60. Contacting your local LOCOSYS-authorized dealer for a repair service. The repair will hold a charge, and price depends on the inspections. The dealer will provide a quote before you return the watch to LOCOSYS. LOCOSYS will view the condition and advise dealer the repair assessment.

    (Note: Before repairing your GW-60, LOCOSYS will charge the inspection fee in advance.)

7. Do not try to open the device, or it may cause your watch lose waterproof capability.

8. If the device hasn't been used for a long time or months, do not forget to charge your watch periodically for maintaining the battery lifetime.

9. To download the latest firmware version for GW-60, visit our website for "Download page" www.locosystech.com

Section 7. Warranty & Return Information

♦ **Warranty Coverage**

1. GW-60 is warranted for 12 months and warranty coverage is effective from the date of purchases. *(Note: Some areas may extend to 24 months)*

2. LOCOSYS warrants our products and its parts against defects in material and workmanship under normal use within the warranty period.

3. The warranty does not cover any product where damage has been caused by accident, abuse, misuse, natural disaster, any unauthorized disassembles, or modification.

   (Note: LOCOSYS will repair it for free, and customers will pay the inbound shipping cost.)

4. For warranty returns, the product "MUST" be returned by LOCOSYS authorized dealers.

5. Before shipping a returned product to LOCOSYS, dealers shall inform LOCOSYS and apply the RMA (Return Merchandise Authorization) request form.

♦ **Out-of-Warranty Service**

1. Out-of-warranty products, or damage condition not be covered under the warranty will be charged to the customer. If the product fails forgoing conditions, we can usually repair it for a very reasonable price. We'll provide a quote including shipping charge for repair. *(Note: Repairs will be performed upon the receipt of payment.)*

2. Customers will prepay for shipping both ways, plus parts and labor.

♦   Where to get help

1.   Local dealers support

Contact the LOCOSYS-authorized dealers to reach a support service, or repair service to return the damaged device to LOCOSYS.

2.   Website support

Visit LOCOSYS website www.locosystech.com for firmware update, and trouble-shooting information. You can e-mail LOCOSYS to get tips, usage information, and FAQs, download utilities.

Life is a wave,

go catch it!

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