<u>Incoming $GPWPL NMEA-sentences are handled wrong in GPSmap 60CSx</u>

Hello Garmin,

Using GPSmap 60CSx with Firmware 2.90 and Software 2.50.

Try to send the following $GPWPL sentences to the GPSmap 60CSx via the serial interface

$GPWPL,5039.12,N,00834.88,E,DB0GIS*23
$GPWPL,5023.30,N,00803.13,E,DB0LIM*3B
$GPWPL,5216.85,N,00805.50,E,2BCA-9*28
$GPWPL,5012.78,N,00847.32,E,DB0ZAV*33
$GPWPL,5012.78,N,00847.32,E,DL7ZAV*3A
$GPWPL,5217.07,N,00805.98,E,DO6DD*7C
$GPWPL,5120.69,N,00701.61,E,DLCONV*5F
$GPWPL,5008.05,N,00851.90,E,3FAT-9*32
$GPWPL,5008.79,N,00849.09,E,3FAT-9*30
$GPWPL,5008.74,N,00848.79,E,3FAT-9*3B

Please also try to send some of this waypoint several times into the GPS vie serial interface.

Have a look if the waypoints are created with the correct names in the GPS receiver.
On my GPSmap 60CSx the waypoints are created, but with some (random?) figures and characters behind the waypointname.

From my point of view there **are two different methods** how $GPWPL should be handled by the GPSmap 60CSx.

You should add a new menupoint in the "Advanced-NMEA-Settings-Menu" with a checkbox where you can define how the incoming $GPWPL-Sentences should be handled in the GPSmap 60Csx.

<u>Method 1:</u>

Scenario: You're getting coordinates every 30 seconds from a moving car where the name of the car ist 3FAT-9.

Something like this…
$GPWPL,5008.05,N,00851.90,E,3FAT-9*32
$GPWPL,5008.79,N,00849.09,E,3FAT-9*30
$GPWPL,5008.74,N,00848.79,E,3FAT-9*3B

By method 1 every $GPWPL should be entered as a new waypoint, with a ascending number added at the end of the waypoint name…
3FAT-9 1
3FAT-9 2
3FAT-9 3
then you have a "line of" point in your GPS from the moving car.

Method 2:

Scenario: You're getting coordinates every 30 seconds from a moving car where the name of the car ist 3FAT-9.

Something like this…
$GPWPL,5008.05,N,00851.90,E,3FAT-9*32
$GPWPL,5008.79,N,00849.09,E,3FAT-9*30
$GPWPL,5008.74,N,00848.79,E,3FAT-9*3B

The method 2 we need for realtimetrackingapplications (like trace weatherballons by car)
And it is too the method like the old garmin gps receiver (like Garmin GPS V, III, Etrex and GPSMap 60 handled incoming $GPWPL).

Wth the first sentences of a waypoint it should be created name 3FAT-9.
Every more sentences with 3FAT-9 should update the coordinate from the existing waypoint 3FAT-9, but **not** enter a new waypoint name (like in method 1). It would be good to have this function available, too, in the Garmin GPS 60CSx.

Only with method 2 it is possible to trace moving objects like car's, weatherballons, etc. You are then able to select this waypoint 3FAT-0 as GOTO-Waypoint and have a permanent calculation for the bearing and distance of the object you are following realtime.

A second problem I have discover:

The following sentences is accepted by the GPS
$GPWPL,5008.74,N,00848.79,E,3FAT-9*3B
but the next one, too (this sentence has no checksum!!!)
$GPWPL,5008.74,N,00848.79,E,3FAT-9*

Please have a look so that only $GPWPL with a valide checksum are entered.

Your sincerely
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P.S. when you have further questions you can contact me by email apuschi@web.de