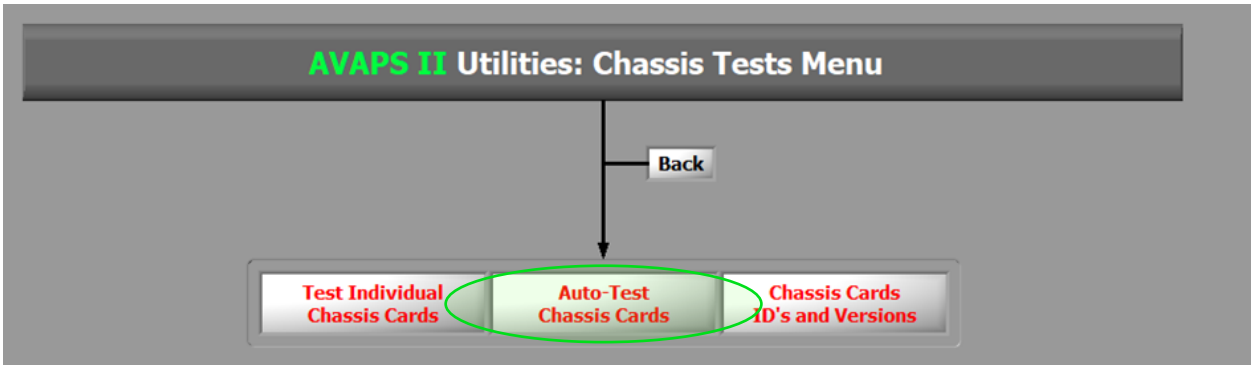
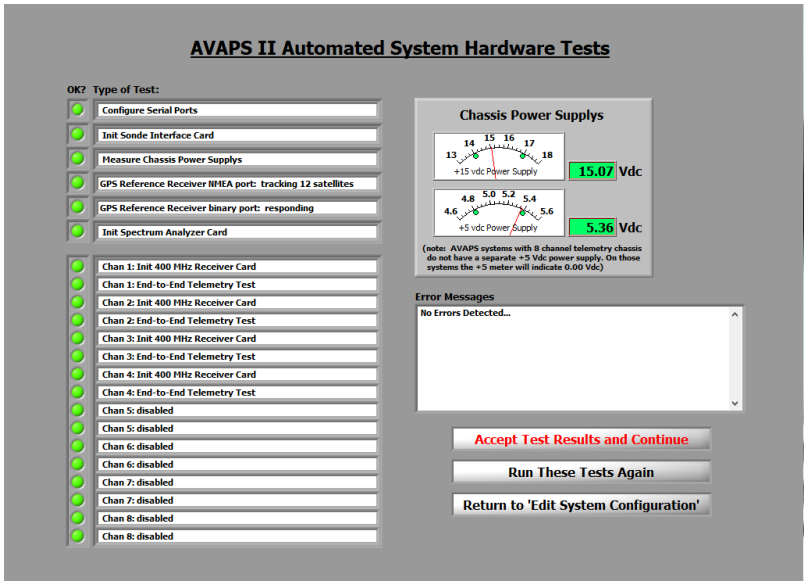
System Test

Repeat steps 1-4 in the GPS test section to arrive at the AVAPS utilities chassis test

Step 8: Select *Auto-Test Chassis Cards*



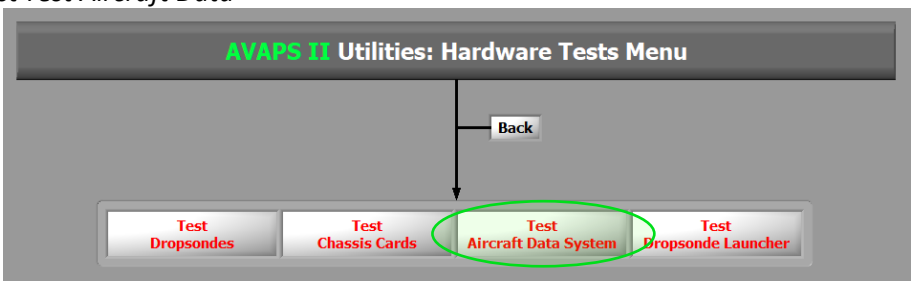
AVAPS will run automated tests on all electronics boards.

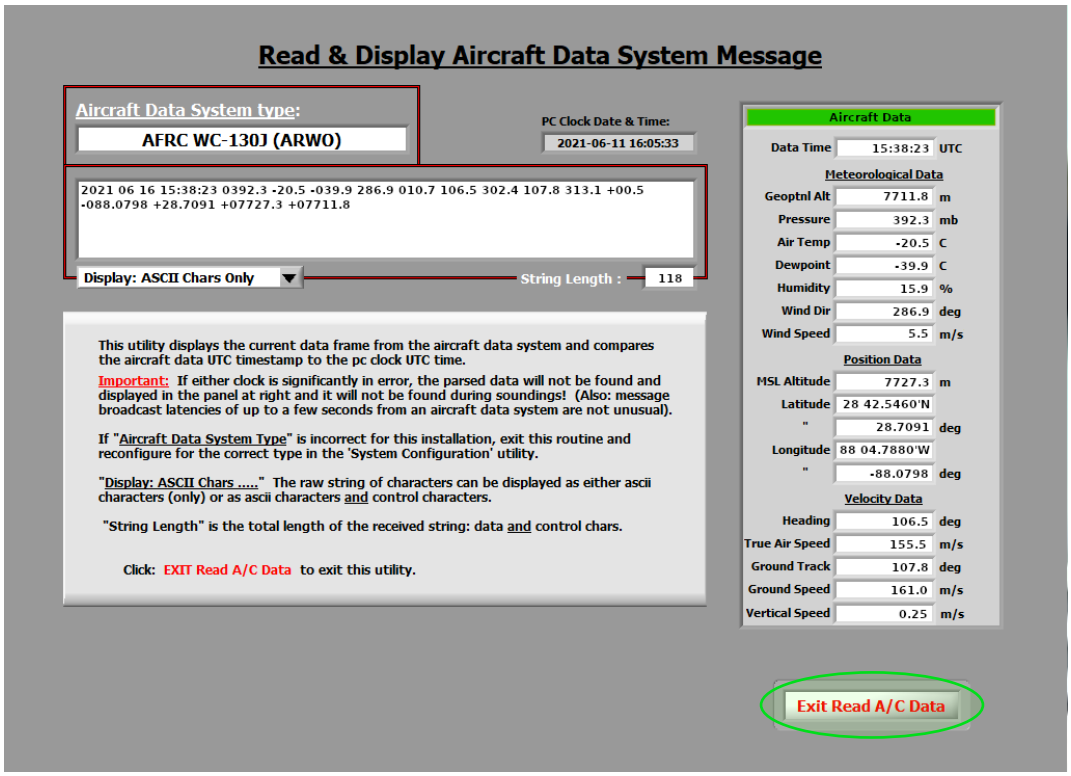


If any issues are found, select *Run These Tests Again* before trying to troubleshoot as the system may not have completely warmed up. If issues persist, see Section *Troubleshooting* at the end of this document.

Step 9: If no issues were found select *Accept Test Results and Continue,* this returns the operator to the Chassis Test Menu. Select *Back* again to return to the *Hardware Tests Menu*

Step 10: Select *Test Aircraft Data*





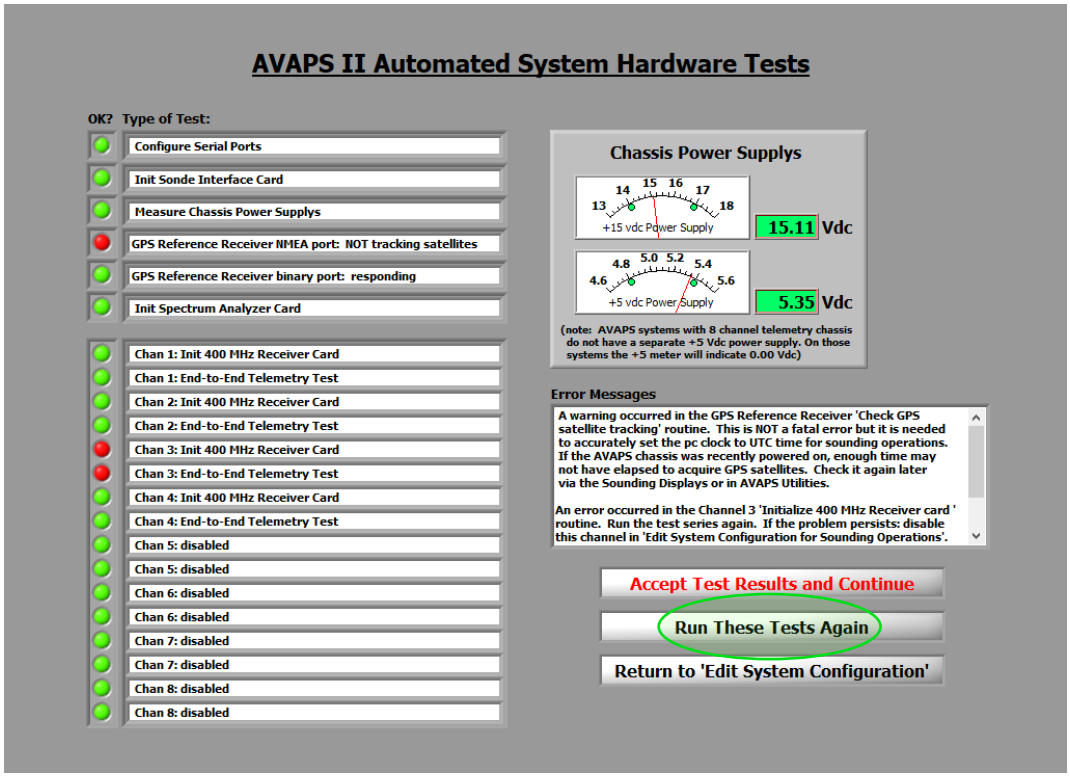
Verify the aircraft data transmission. If any errors exist, review the aircraft data system and the connection to the AVAPS chassis.

Step 11: Select *Exit Read A/C Data* and select *Back* until the AVAPS Main Menu screen is reached.

This completes the pre-flight System Test. Select *Soundings* to begin dropsonde operations.

Troubleshooting

Auto-Test Issues:

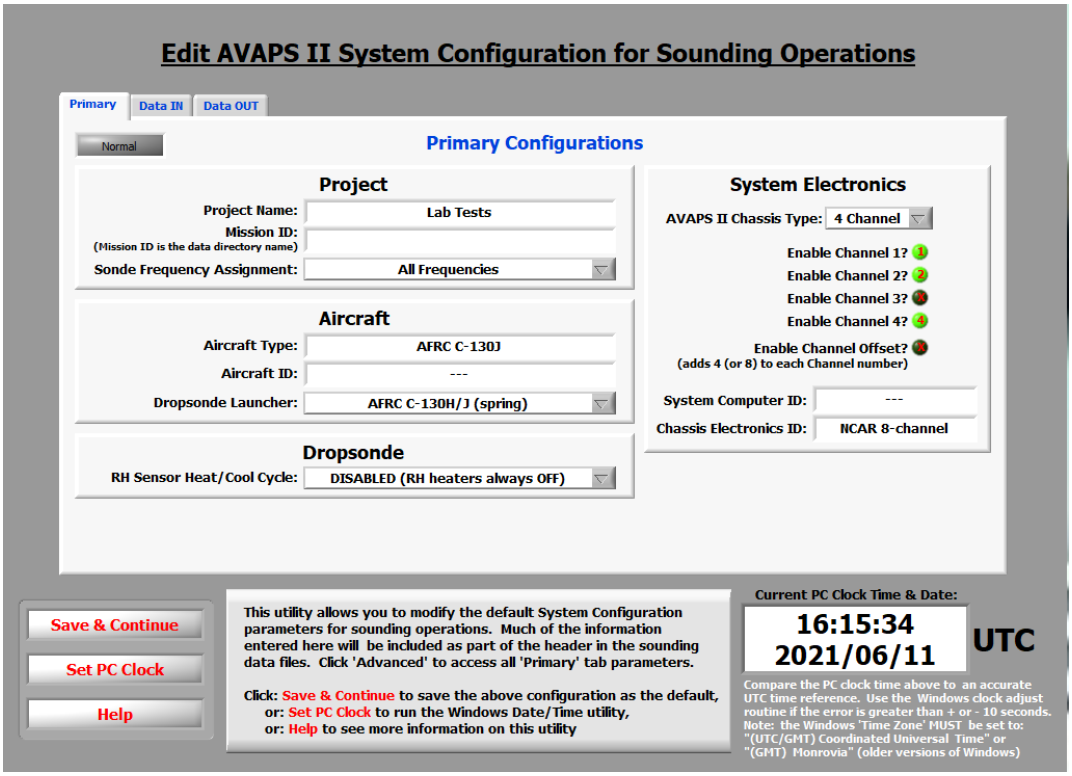


The two issues shown here are no GPS lock and a bad Channel 3 Rx card. The GPS issue is most likely due to the time it takes for the GPS to lock. Wait 15 minutes and *Run These Tests Again*

Note that channels 5 through 8 are disabled in this system, since this is a four-channel system. If the channel 3 receiver card is not working properly but the mission must continue, simply disable this channel.

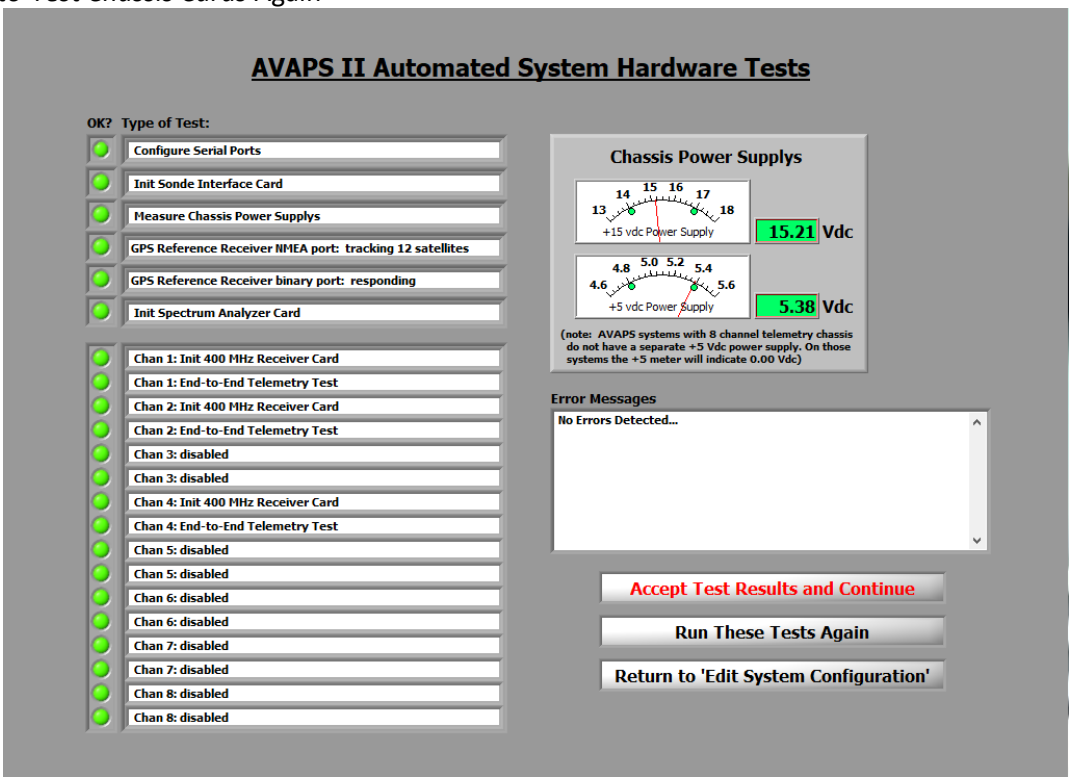
Select *Edit* to disable a receiver

Select the red *Advanced* tab and click the green dot next to *Enable Channel* 3. This will disable that channel and turn its indicator to red.



Click *Save & Continue*

Run *Auto-Test Chassis Cards* Again



Disabling a channel due to a bad Rx card is only a temporary solution to save a mission. The chassis card in question should be replaced or repaired at the next available opportunity. A bad GPS receiver or a bad Sonde Interface Card will prevent any dropsonde operation until a new card can be installed. Although this rarely happens, it is good practice to have spares on board the aircraft.