

ICAO Frequency Finder Updates, the SSR module and the new NAV module

NACC/CAR/SAM Preparatory Workshop to ITU World Radiocommunication Conference 2023 (WRC-23) **About the Frequency Finder tool**

How did it all start?

How was it developed?

Frequency Finder has been developed with FileMaker 13 Pro Advanced

Implementation of Frequency assignment planning criteria

as per the ICAO Handbook on Radio Frequency Spectrum Requirements, Volume II







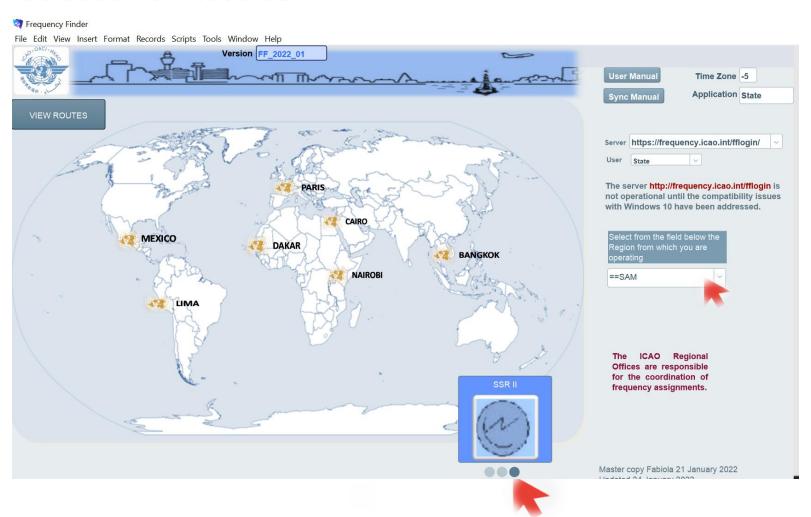
What does it do?

Calculation of interference areas, assessing compatibility between frequency assignments /searching for compatible II /SI codes

Visualize Mapping

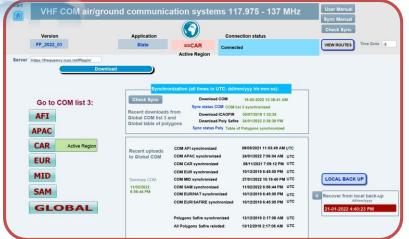
- Graphical interface with Google Earth
- Plotting interference 2

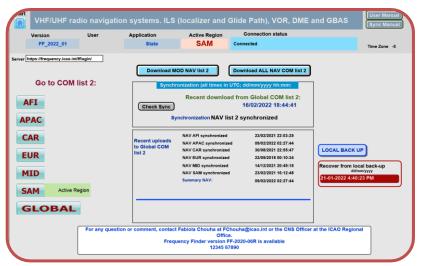
Start page of Frequency FinderSelection of Modules

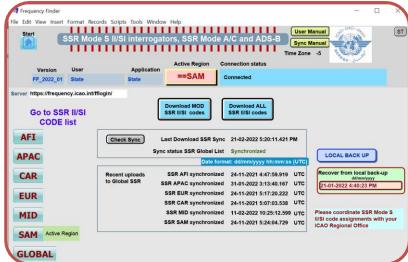




Home pages of the VHF COM, NAV and SSR modules

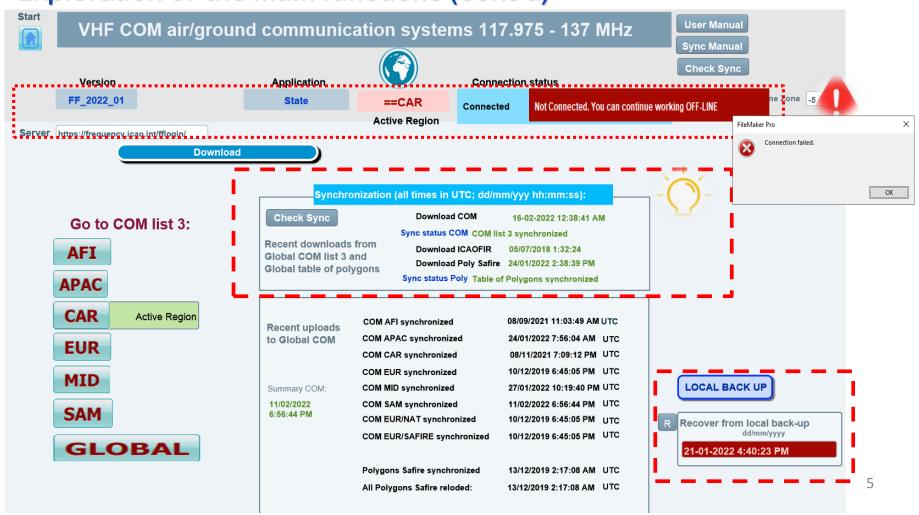




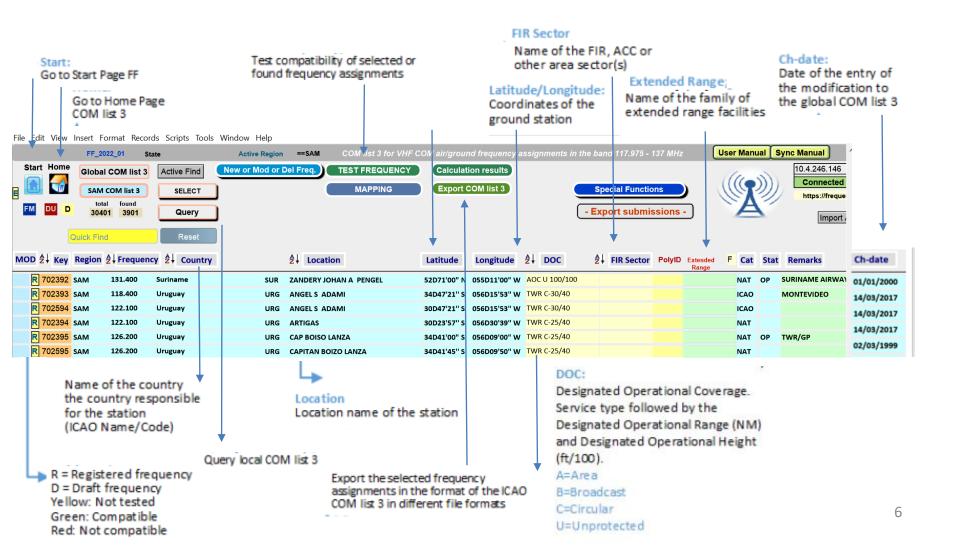


Home page of the VHF COM air/ground communications systems module

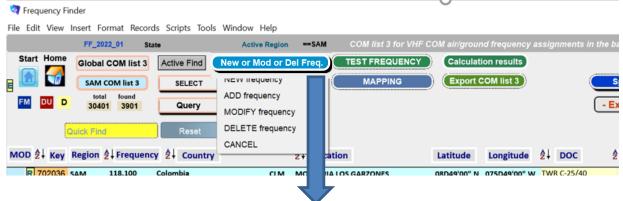
Exploration of the main functions (cont'd)



Exploration of the main functions – Buttons of COM List 3



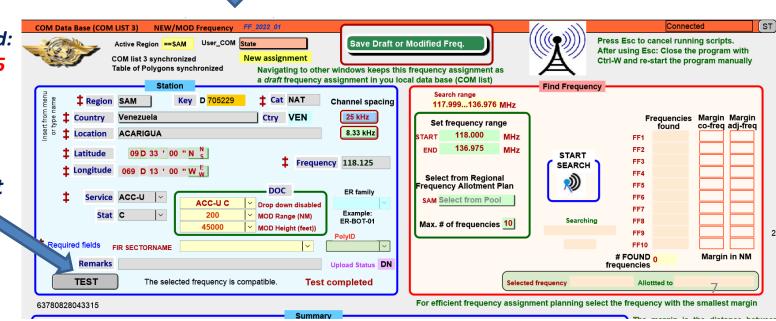
Exploration of the main functions – Introducing a new/modify an existing/delete a frequency assignment



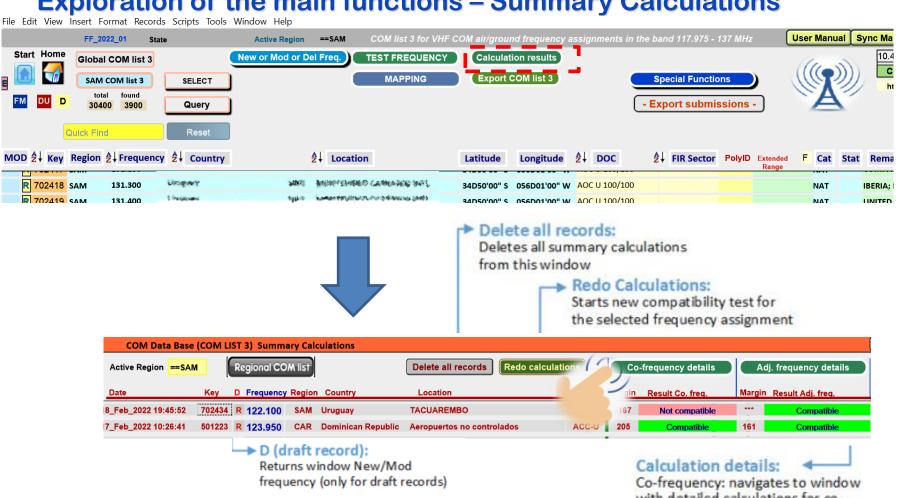
In this example, add: Frequency: 118.125

Service: ACC-U

Test result is displayed. In this example, it said that: The selected frequency is compatible

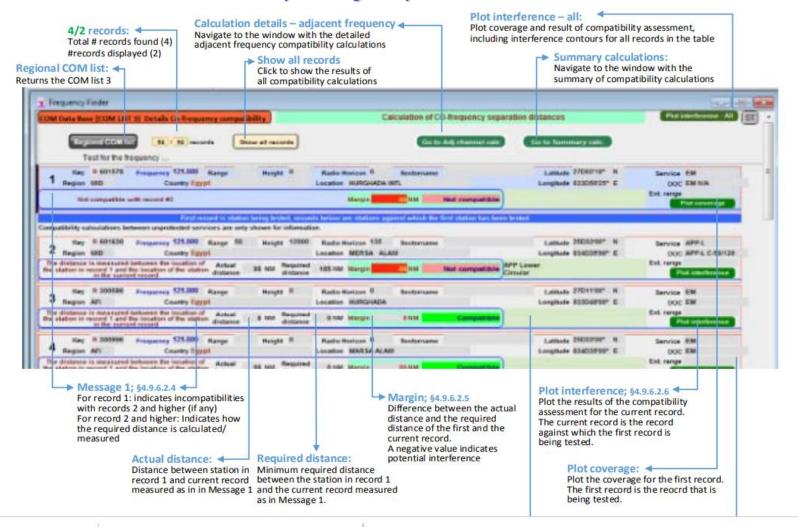


Exploration of the main functions – Summary Calculations

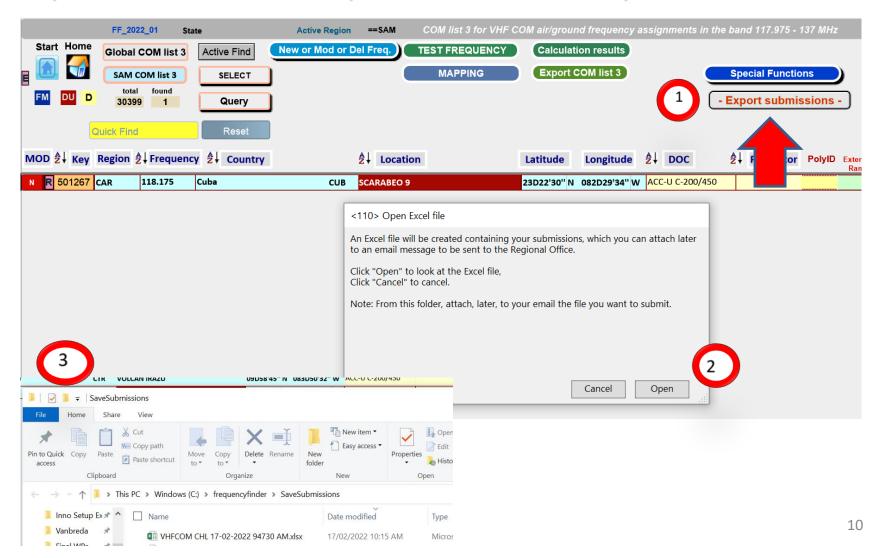


with detailed calculations for cofrequency compatibility Adjacent frequency: navigates to window with detailed calculations for 8 adjacent frequency compatibility

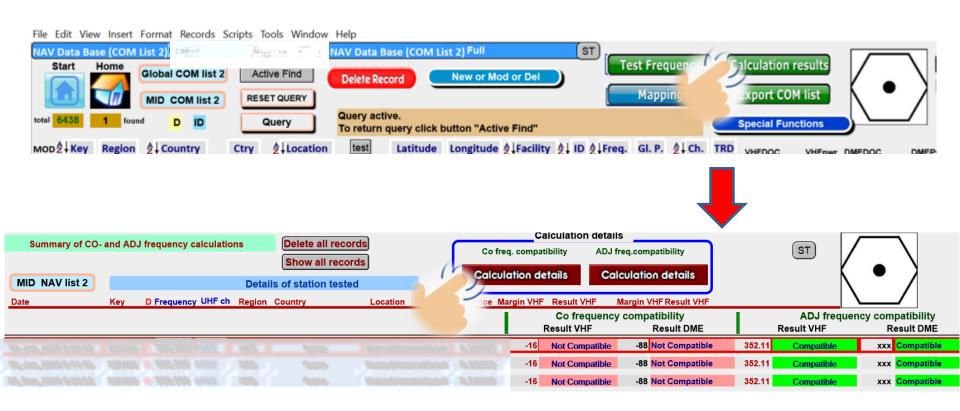
Exploration of the main functions – Summary Calculations – Calculation of co-frequency separation distance



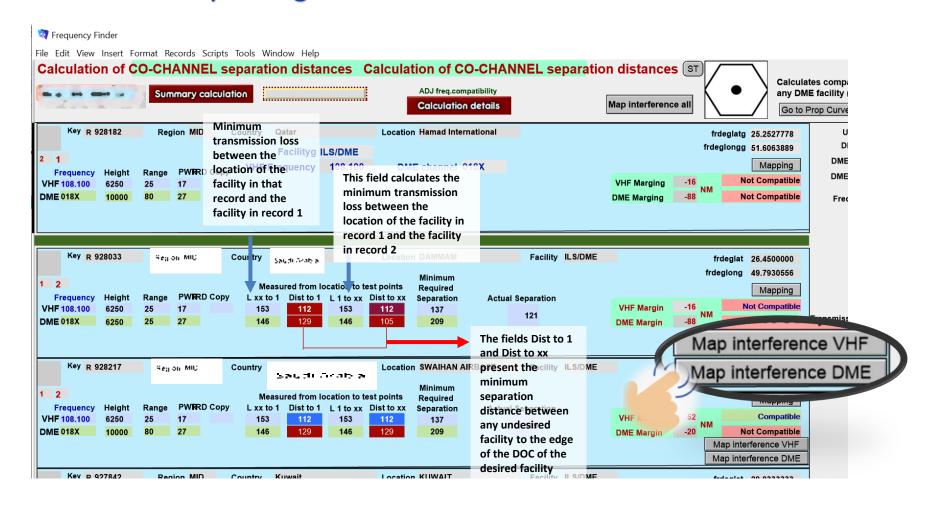
Exploration of the new/improved functions – Export submission



Other ongoing improvements (cont'd) NAV module – plotting interference contours



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Other ongoing improvements (cont'd)

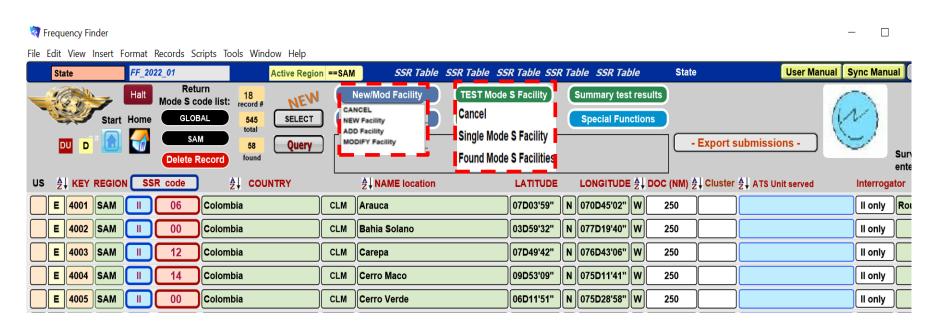
NAV module – plotting interference contours – Map interference VHF and DME



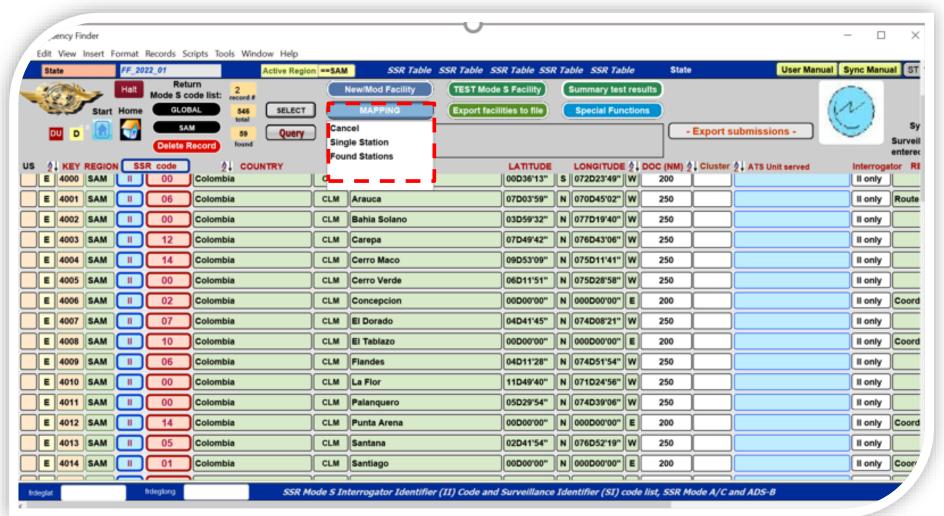


Main functions on the window SSR Table

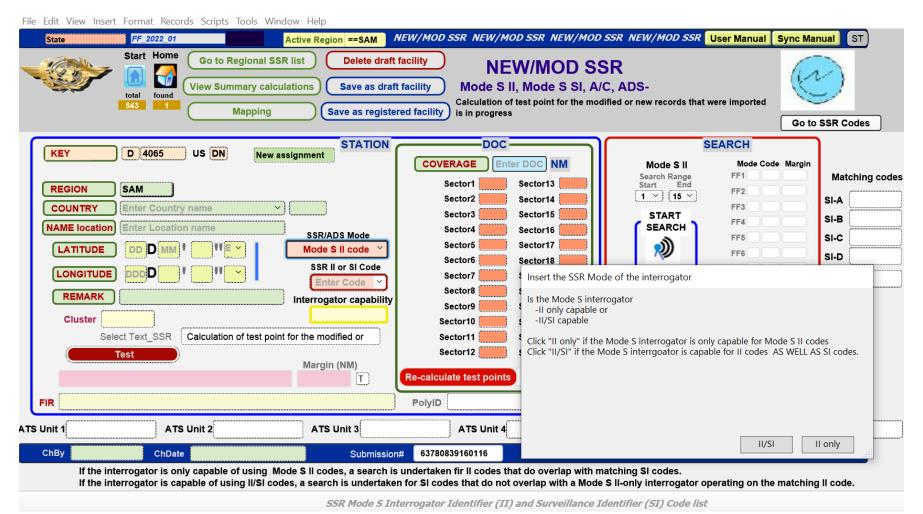
Regular and new functions – NewMod Facility



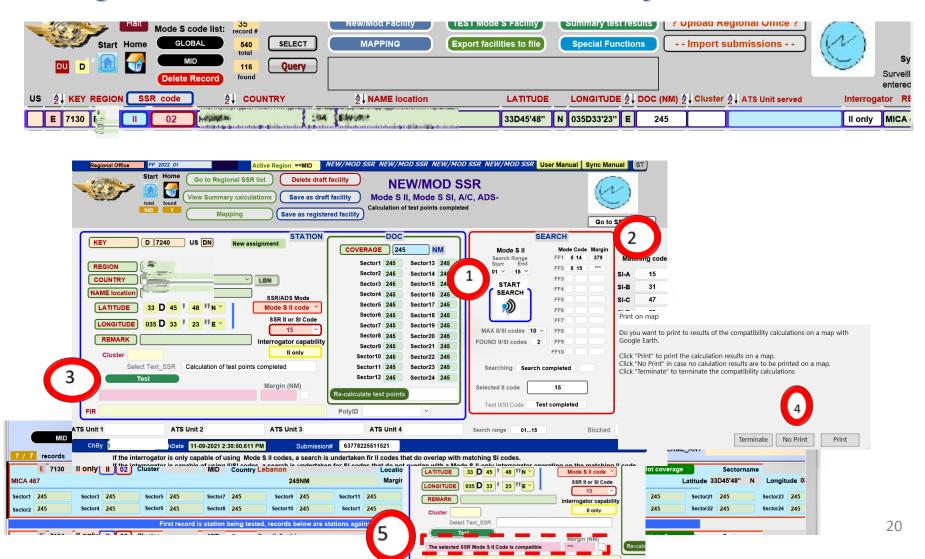
Regular and new functions - Mapping



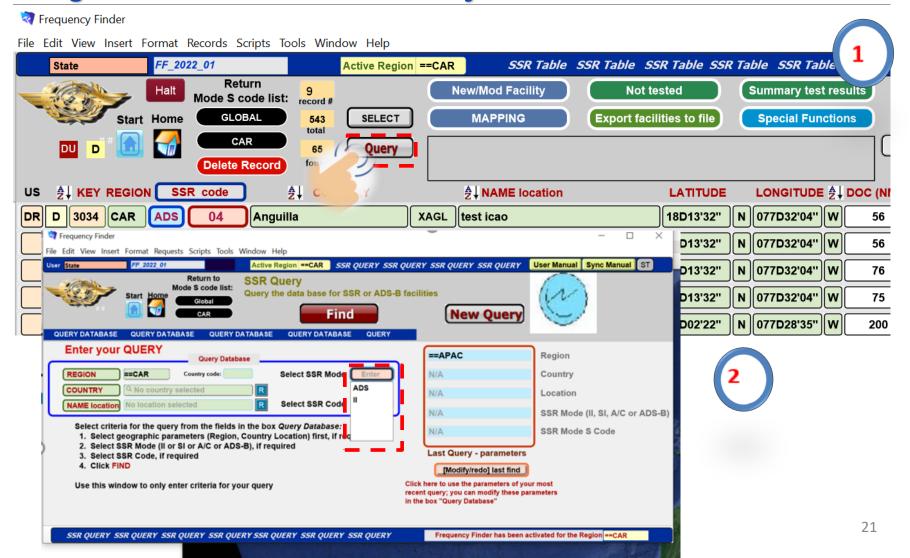
Main functions on the window SSR Table Regular and new functions – NewMod Facility



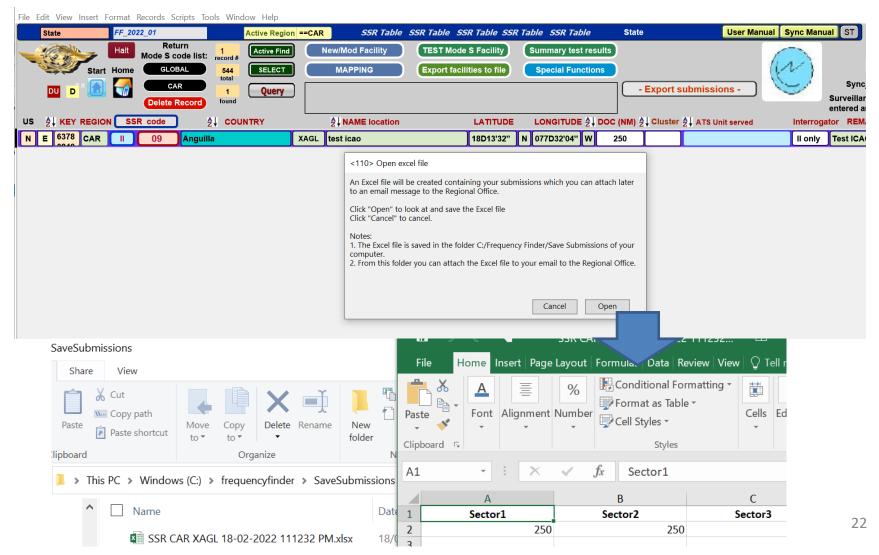
Main functions on the window SSR Table Regular and new functions – Mod / Add Facility



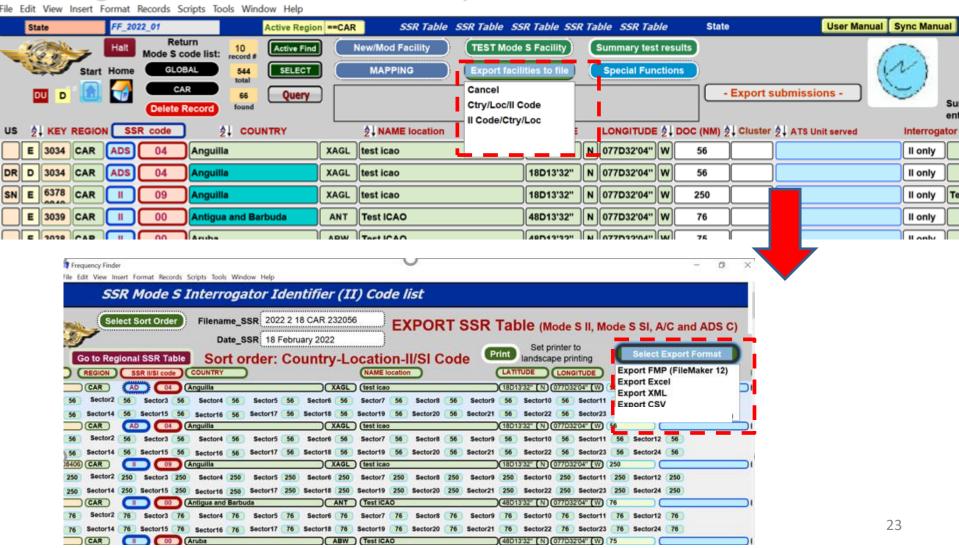
Main functions on the window SSR Table (cont'd) Regular and new functions - Query



Main functions on the window SSR Table (cont'd) Regular and new functions – Export submissions

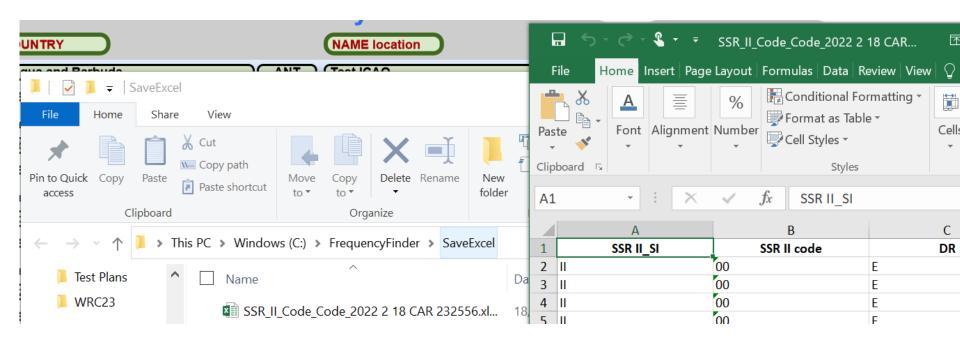


Trequency Regular and new functions – Export facilities to file

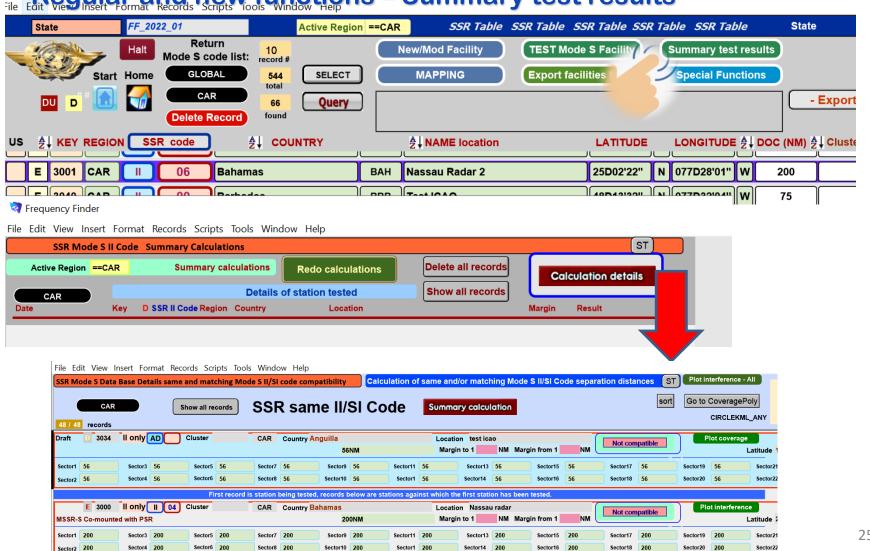




Regular and new functions – Export facilities to file



Regular and new functions – Summary test results



Questions



