

There are 3 WaldoAir positions.

Aircrew: WaldoAir Mission Pilot and WaldoAir Operator (mission specialist)

Ground Crew: WaldoAir Planner (may then become the WaldoAir Operator)

The WaldoAir **Mission Pilot** has received training (qualifications) on flying WaldoAir missions. This requires a greater precision than a core Mission Pilot. (Must have been qualified as a WaldoAir Operator)

The WaldoAir **Operator** operates the Waldo equipment while on the sortie. The WaldoAir Operator also functions as the Mission Observer and also assists the WaldoAir Pilot with situational awareness, aka eyes out of the airplane during missions, while at the same time keeping track of the mission operation by monitoring the progress on the laptop. (Must be qualified as an MO and a WaldoAir Planner)

The WaldoAir **Planner** does their planning work on the ground, and often “remotely” from information first received, typically from FEMA. All planning is done on an Intel PC laptop to create “Polygons”. (Must have been qualified as a WaldoAir Operator). (Refer to the **WaldoAir Laptop Checklist** document for details on these instructions.)

On the laptops that come with the **WaldoAir** kit, there will be 6 folders. Other than knowing they exist; you can ignore these.

C:_Waldo_FCS
C:\KML Exports
C:\KML_PLANNER
C:\Waldo
C:\Waldo Shortcuts
C:\waldocamsettings

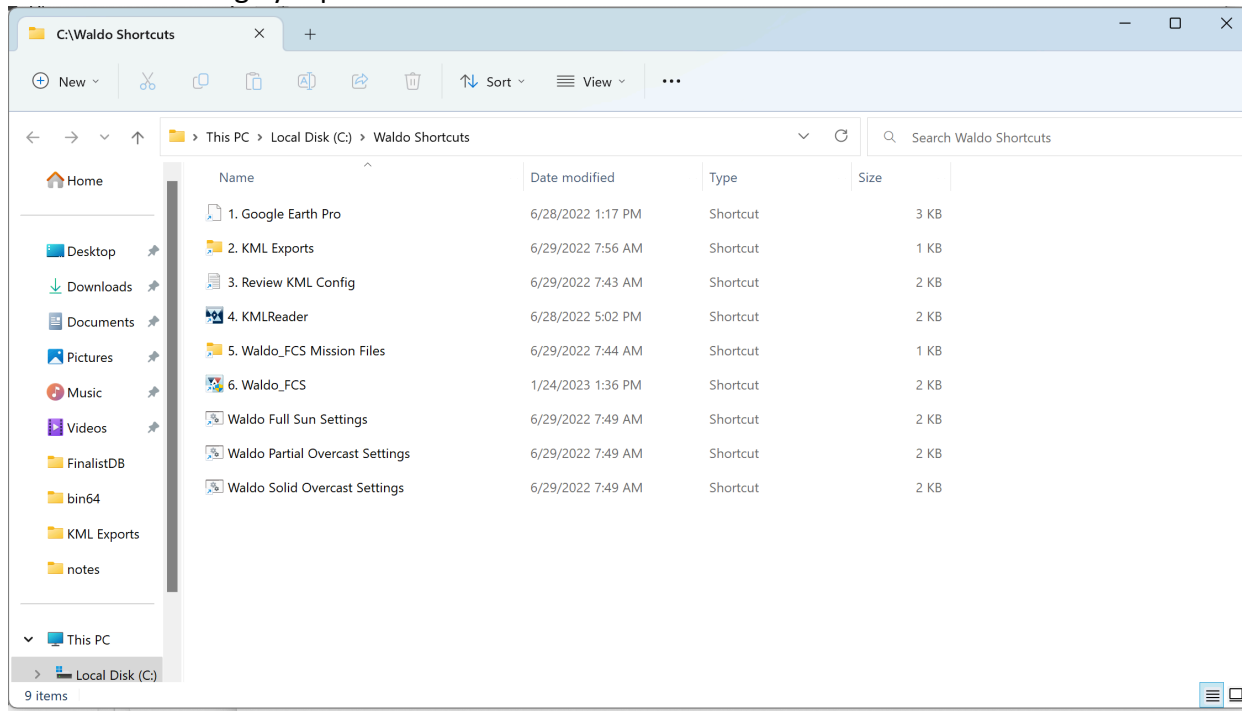
If you don't have these folders, they are available from CAP NHQ.

You will have (need) Google Earth Pro installed (<https://www.google.com/earth/versions/#earth-pro>).

Follow **WaldoAir Laptop Checklist** and **WaldoAir Hardware Checklist** for details.

On the desktop of the laptop, there will be folder called Waldo Shortcuts (Step 1 in checklist) that contains the following. This is where you will live.

WaldoAir Planning Synopsis



1. **Google Earth Pro:** (Step 3 in checklist) From FEMA, you may receive a KML file that maps out the area in need. The FEMA area may be (much) bigger than what can be accomplished in a single sortie so you may need to sub-divide the initial KML into smaller segments. This is where Waldo experience comes into play and involves a lot of trial and error.
2. After you have mapped out your sortie area, you will export your plan (in KML format, not KMZ which is the default) to the **C:\KML Exports** folder.
3. **Review KML Config:** (Step 4 in checklist) Ensure config is set properly.
4. **KML Reader:** (Step 5 in checklist) Open the KML file exported from **Google Earth Pro**. If KML Reader can't open the file, ensure it was saved in KML format, not KMZ.
5. **KML Exports** and **Waldo_FCS Mission Files:** (Steps 8 and 9 in checklist) Move selected files from one folder to the other.
6. **Waldo_FCS:** (Step 10 in checklist) This is the program to either run the live mission (if camera is hooked up) or simulate the mission (no camera).

These Waldo folders should be on all Waldo laptops. They can also be placed on **WaldoAir Planner's** personal laptops so they can do mission planning remotely. If done remotely, the appropriate files exported to **Waldo_FCS Mission Files** (aka **C:_Waldo_FCS**) will be sent by the planner to the **Waldo Operator**.

Often times, 2 Waldo laptops are available. Planning is done on one which is then turned over to the **WaldoAir Operator** while the next planning is done on the other laptop. This eliminates the need for the **WaldoAir Planner** to have the Waldo executable files on their personal laptops.