

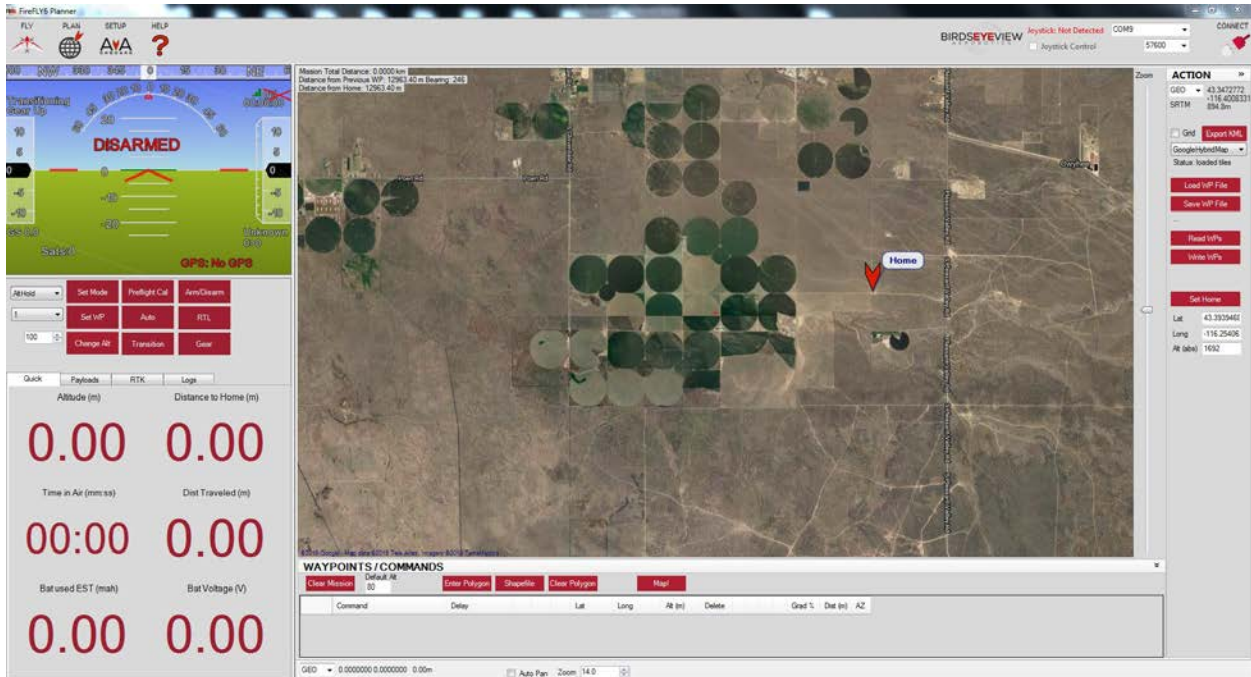
# CWN Mapping Flight Plan Building

## How to for assisting CWN crews build transects

This plan is to assist CWN flight crews in flying transects in GCS units that do not have mapping flight plan capability. The Mission Planner software for FireFly 6 Pro allows for the best KML export. For this software contact BLM NAO Bobby Eisele.

First determine the altitude to be flown above the highest point of terrain. This will guide you in building the flight plan.

Open Mission Planner.



Enter Polygon Mode drop points around the area to be surveyed. It takes a double click to drop a point and points can be moved. When points are placed as needed click the Map button.



Adjust settings on the right side to meet the requirements of the flight. Set the Camera, Altitude, Angle and Sidelap. The rest do not matter. Click Accept when ready, once Accepted you cannot go back so make sure its right.

**Simple Options**

Camera: FLIR Duo EO

Altitude [m]: 400

Angle [deg]: 90

Camera top facing forward

Grid Options

OverShoot [m]: 0

OverShoot [m]: 0

LeadIn [m]: 0

StartFrom: BottomRight

Overlap [%]: 62.0

Sidelap [%]: 66.0

Lane separation: 0

Cross Grid  Corridor

Corridor Width [m]: 100.0

Trigger Outside Polygon

Terrain Awareness

**Accept**

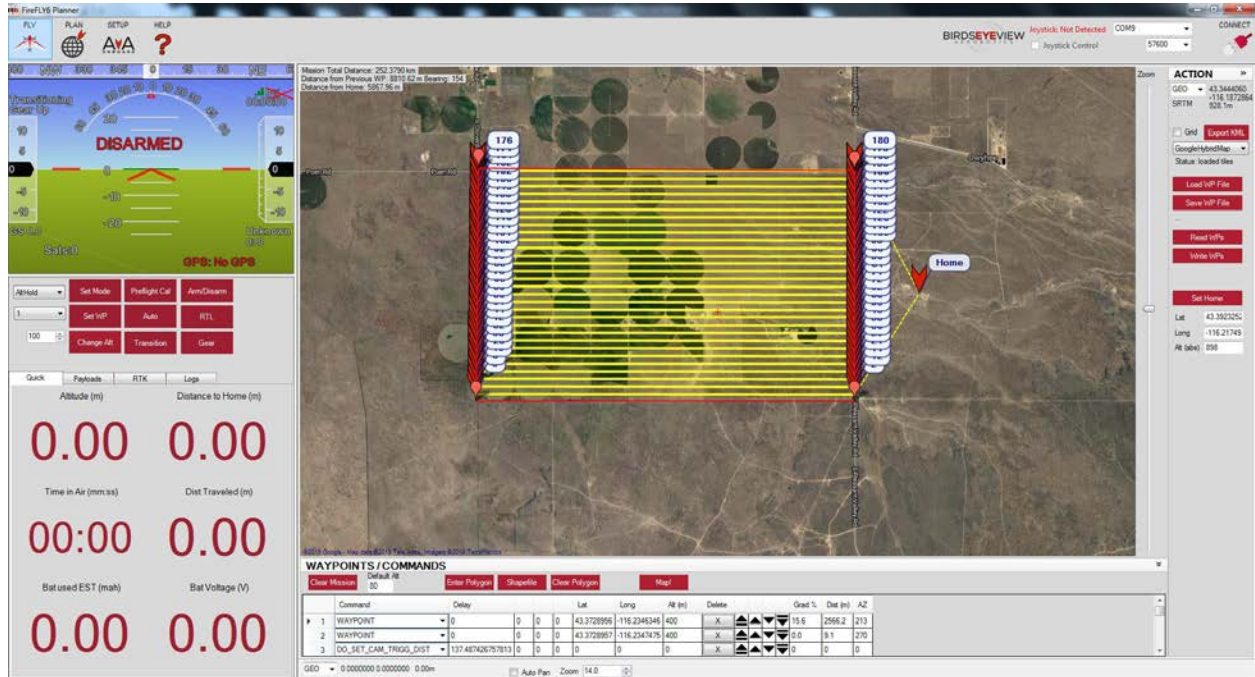
**Display**

Boundary  Markers  Grid

Stats

Area:	9797 acres	Pictures:	1758	Flight Time (est):	5:02:32 Hours
Distance:	246.96 km	No. of Steps:	20	Photo every (est):	0:29 Seconds
Distance between images:	127m	Footprint:	482.4121 x 361.809 m		
Ground Resolution:	37.88944 cm	Dist between lines:	164.02m		

Accept will take you back to the Fly Page with the flight plan showing. Click the Export KML button and save to an appropriate folder.



Now you can generate a new base map for the GCS with the KML overlaid to show flight lines with appropriate side lap. Use the Object Distance Spreadsheet from BLM NAO to determine the interval timing to be set in the camera based on altitude and speed to be flown.