

The UASD Position

Introduction and Overview



Objectives

1. Provide an overview of the UASD position
 2. Discuss day-to-day operations of the UASD on incident
 3. Set the stage for breakout sessions and exercises
-

Where we came from



- IFUAS leadership identified the need for a position that:
 - Could provide the maps and analysis needed for UAS mission planning
 - Could efficiently develop intelligence products
 - Could perform spatial and imagery analysis if needed
 - Was knowledgeable about data management, metadata, and archival
 - Would interface with the GISS/SITL on large incidents
 - Would deploy with the UAS module
 - 2018 was the first year for widespread implementation of Type I/II contract UAS
 - 2019 saw UASD mobilization for agency UAS, and 4 CWN vendors on 7 fires
-

What we do - Mobilization and Deployment

- Collect and organize spatial data necessary for UAS operations
- Support the process for mobilization, site selection, and safety of flight
- Establish communications and protocol with the incident GISS/SITL
- Create and distribute maps for the UAS module - including transportation, airspace, surface management, aerial hazards, and others
- Primarily support CWN contract
 - Support Agency UAS ops as needed

The image displays a file index for the directory `/public/incident_specific_data/pacific_nw/20`. The index lists various files with their names, last modified dates, and sizes. The files are organized into a tree structure starting with a 'Parent Directory'.

Name	Last modified	Size	Description
Parent Directory			-
2018_180000Name_UsedID_FireNumber/	16-Jul-2018 15:46	-	-
2018_Buxton_OR28D2_000410/	23-Jun-2018 09:52	-	-
2018_CRAFire_ORCLP_000000/	18-Jul-2018 14:49	-	-
2018_Constancy_OR_PRC_000201/	17-Jul-2018 22:39	-	-
2018_GarretComplex_OR181216619/	17-Jul-2018 19:59	-	-
2018_Graham_0420/	26-Jun-2018 15:53	-	-
2018_Gravel_ORRSF_000281/	17-Jul-2018 20:18	-	-
2018_Hendrix_OR_RSF_000428/	17-Aug-2018 02:56	-	-
2018_HayoRoad7251_OR_712C06511E/	04-Sep-2018 08:44	-	-
2018_Jack_Kearf_OR28D2_000440/	23-Jun-2018 14:39	-	-
2018_James_Peak_OR_RFPN_1039/	21-Aug-2018 18:15	-	-
2018_Kondice_ORRSF_000354/	11-Sep-2018 25:19	-	-
2018_LabretCreek_OR_7238_000001/	06-Aug-2018 18:56	-	-
2018_Loss_Holton_OR_PFD_000809/	04-Sep-2018 18:27	-	-
2018_Natchez_OR_RSF_000386/	15-Sep-2018 18:44	-	-
2018_PaleCreek_ORVAD_000148/	01-Aug-2018 12:54	-	-
2018_RamseyCanyon_OR7115_181132218/	22-Aug-2018 22:55	-	-
2018_SilverCreek_OR58200818/	17-Jul-2018 18:25	-	-
2018_SilverCreek_ORVAD_000187/	22-Aug-2018 10:37	-	-
2018_SouthLinnComplex_OR_LUPF_000204/	16-Sep-2018 13:42	-	-
2018_SouthValley_OR_ODF_53018-18/	04-Aug-2018 07:32	-	-
2018_Southern_Oregon_Fire_Location/	04-Sep-2018 09:53	-	-
2018_StubbinsField_Scale_OR_SGN_1008/	19-Aug-2018 11:59	-	-
2018_Substention_OR_PFD_000720/	19-Jul-2018 16:56	-	-
2018_SugarPine_OR_RSF_000331/	17-Jul-2018 22:02	-	-
2018_TaylorCreek_ORSMID_000392/	04-Sep-2018 16:59	-	-
2018_TelephoneHill_ORXBLD_000202/	03-Jul-2018 29:43	-	-
2018_Ternavilla_OR_WF_182222/	04-Sep-2018 11:16	-	-
2018_TimberCrest_ORCLP_000218/	20-Jul-2018 02:16	-	-
2018_Watson_Creek_ORFINF_000360/	19-Aug-2018 13:19	-	-

Below the index are two maps. The left map, titled 'SURFACE MANAGEMENT, UAS OPERATIONS AREAS', shows a topographic map with a green circle highlighting a specific area. The right map, titled 'DENVER FAA SECTIONAL, UAS OPERATIONS AREA', shows a similar topographic map with various colored overlays and labels, including '94', '91', and '113'.

What we do - CWN Operations

- Data Refresh
 - Gather the most current information on the incident
 - GCS Map
 - Incorporate current incident and airspace for the flight day
 - Operations Priorities
 - Understand the UAS role, formulate a plan to collect and deliver information for priorities
 - Data Collection
 - Assist UASM and flight crew with collection
 - Processing
 - Develop data and products (maps, briefing slides, video clips, incident datasets)
 - Delivery
 - Data to GISS/SITL, Products to Ops or others
-

What we do - Training

- After Action Review with CWN Vendors
 - Annual UAS Program Review learning from each other
 - S-373 Cadre - Building an army, class by class
 - Vendor Training - Certifying contractors for Incident Work
 - UASD specific tasks testing new software, hardware, techniques, procedures
-

Unique Aspects of UASD

- Flexibility
 - Never the same day twice
 - Tasking, Airframe, Software, Product Requirements, and Location are constantly changing
 - There is no manual - this is new and will evolve
 - Teamwork
 - The data is the most important part of the UAS operation. The UASD is the position that can make or break the success of the mission. (No pressure)
 - It's not GISS and it's not IRIN - UAS is an ISR Platform
 - ISR - Intelligence, Surveillance, Reconnaissance
 - More tactical, less strategic
 - We use GeoOps and interact with spatial data and imagery, but we do it in real time
-

UASD Equipment Considerations

- Flight/processing/lodging location will likely shift during an assignment
 - Stay nimble- monitors, printers, docks, etc., are usually just excess items
 - Working environments will range from a hotel room to a tailgate
- Be prepared for different environmental scenarios
 - Day/Night ops, full PPE, camping equipment
- Ensure your technical equipment is solid before you mobilize
 - You may not be at an ICP and you are the UAS help desk
- [UASD Mobilization Checklist](#) has required and recommended elements



Questions?
