Demo: Unified Data Catalog for Aircraft Images
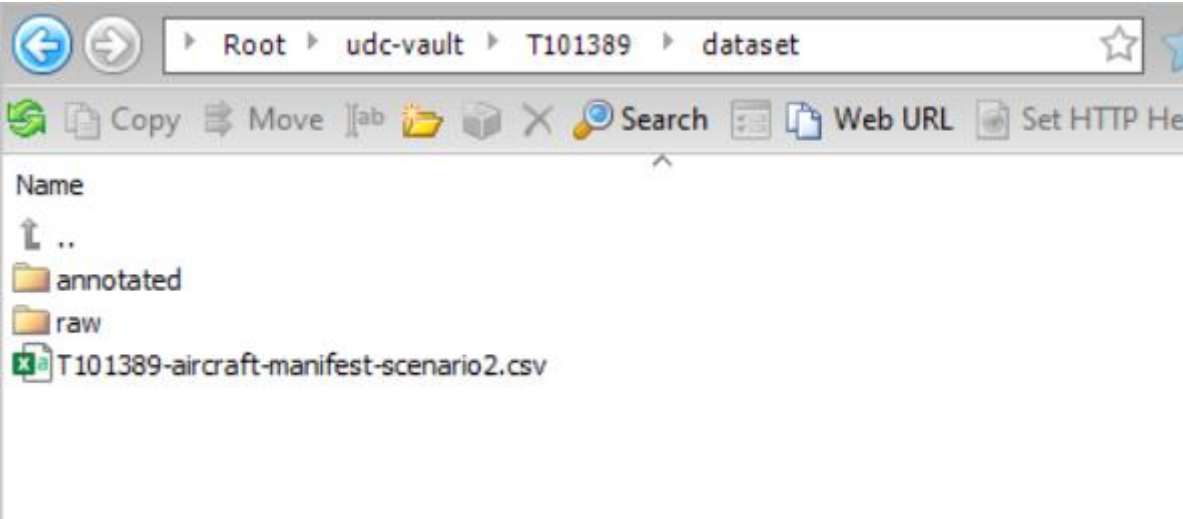
Scenario 2: Import Metadata to Enrich Catalog

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https://github.com/drfranknlee/demo-udc-aircraft

	A	B	C	D	E	F	G	H	I
1		u2-width	u2-height	u2-type	u2-xmin	u2-ymin	u2-xmax	u2-ymax	u2-id
2	udc-vault/T101389/dataset/annotated/000ec980b5b17156a55093b4bd6004ab.jpg	1000	551	Be200	308	126	651	201	T101389-10000
3	udc-vault/T101389/dataset/annotated/00afb4420bdce881ad216867c713c800.jpg	1200	800	Mig31	299	197	1102	569	T101389-10001
4	udc-vault/T101389/dataset/annotated/00b2add164cb42440a52064e390ea3d2.jpg	1280	850	B1	322	112	893	618	T101389-10002
5	udc-vault/T101389/dataset/annotated/00b627cb5578bb036edb01cdcf7b56d9.jpg	1300	867	F35	607	204	1202	529	T101389-10003
6	udc-vault/T101389/dataset/annotated/00c09f406d31a0cd9402862fbd26d930.jpg	1800	1200	A10	32	60	1800	766	T101389-10004
7	udc-vault/T101389/dataset/annotated/00c54e200e0d868faac8c55bfca70dbe.jpg	1200	1200	V22	647	521	973	768	T101389-10005
8	udc-vault/T101389/dataset/annotated/00d4b7ea93ca1417393007c61c519f88.jpg	1200	675	A10	560	308	647	329	T101389-10006
9	udc-vault/T101389/dataset/annotated/00db76f676528477c66c93c7d24d7524.jpg	1280	857	F117	176	263	1280	553	T101389-10007
10	udc-vault/T101389/dataset/annotated/00ebecac178be3c3890a067d6a28234e.jpg	960	640	C5	58	133	889	397	T101389-10008
11	udc-vault/T101389/dataset/annotated/00f4279089ddc0d40e1470894f827f2e.jpg	2048	1365	C5	875	398	1110	629	T101389-10009
12	udc-vault/T101389/dataset/annotated/0a2a11a8658d69b6cd1fd23c5f4513bd.jpg	960	640	Tu160	1	155	903	506	T101389-10010
13	udc-vault/T101389/dataset/raw/000ec980b5b17156a55093b4bd6004ab.jpg	1000	551	Be200					T101389-10000
14	udc-vault/T101389/dataset/raw/00afb4420bdce881ad216867c713c800.jpg	1200	800	Mig31					T101389-10001
15	udc-vault/T101389/dataset/raw/00b2add164cb42440a52064e390ea3d2.jpg	1280	850	B1					T101389-10002
16	udc-vault/T101389/dataset/raw/00b627cb5578bb036edb01cdcf7b56d9.jpg	1300	867	F35					T101389-10003
17	udc-vault/T101389/dataset/raw/00c09f406d31a0cd9402862fbd26d930.jpg	1800	1200	A10					T101389-10004
18	udc-vault/T101389/dataset/raw/00c54e200e0d868faac8c55bfca70dbe.jpg	1200	1200	V22					T101389-10005
19	udc-vault/T101389/dataset/raw/00d4b7ea93ca1417393007c61c519f88.jpg	1200	675	A10					T101389-10006
20	udc-vault/T101389/dataset/raw/00db76f676528477c66c93c7d24d7524.jpg	1280	857	F117					T101389-10007
21	udc-vault/T101389/dataset/raw/00ebecac178be3c3890a067d6a28234e.jpg	960	640	C5					T101389-10008
22	udc-vault/T101389/dataset/raw/00f4279089ddc0d40e1470894f827f2e.jpg	2048	1365	C5					T101389-10009
23	udc-vault/T101389/dataset/raw/0a2a11a8658d69b6cd1fd23c5f4513bd.jpg	960	640	Tu160					T101389-10010

```json
{
        "pol_id": "T101389_ImportTags_pol",
        "action_id": "IMPORT_TAGS",
        "action_params": {
                "agent":"ImportTags",
                "source_connection":"UDSt-CoS",
                "tag_file_path":"udc-vault/T101389/dataset/T101389_s2_manifest.csv",
                "tag_file_type":"csv"
        },
        "schedule": "NOW",
        "pol_state": "active",
        "pol_filter": "datasource IN ('udc-vault')"
}
```

```
[moadmin@discover1 T101389]$ ls
T101389_autotag_u2source.json  T101389_ImportTags_pol.json
[moadmin@discover1 T101389]$
[moadmin@discover1 T101389]$
[moadmin@discover1 T101389]$ gettoken
 % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                Dload  Upload   Total   Spent    Left  Speed
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--     0
[moadmin@discover1 T101389]$
[moadmin@discover1 T101389]$
[moadmin@discover1 T101389]$ curl -k -H "Authorization: Bearer ${TOKEN}" https://localhost/policyengine/v1
/policies/T101389_ImportTags_pol -X POST -d @./T101389_ImportTags_pol.json -H "Content-Type: application/js
on"
Policy 'T101389_ImportTags_pol' added[moadmin@discover1 T101389]$
```

New IMPORT_TAGS Policy Created in Web Console

Tag management

Tags | **Policies** | Policy history

Add Policy +

Policy	Type	Schedule (UTC)	State	State	Collections	Last modified by	Last modified
ap_cs_body	CONTENTSEARCH	Done	● Active	✓ Complete		sdadmin	9/17/2021, 2:51:16 PM
ap_cs_meta	CONTENTSEARCH	Done	● Active	✓ Complete		sdadmin	9/16/2021, 1:18:06 PM
T101389_autotag_u2source_pol	AUTOTAG	Done	● Active	✓ Complete		sdadmin	9/21/2021, 2:32:38 PM
T101389_ImportTags_pol	IMPORT_TAGS	Done	● Active	✓ Complete		sdadmin	9/21/2021, 3:17:07 PM
u3-iphone-gps	CONTENTSEARCH	Done	● Active	✓ Complete		sdadmin	9/17/2021, 12:35:42 AM

Items per page: 20 ⌄   1–5 of 5 items   1 ⌄   of 1 pages   ◁   ▷

Tag management

Tags   Policies   **Policy history**

Policy name	Type	Started	Ended	Status	Total records	Successful	Skipped	Failed
T101389_ImportTags_pol	IMPORT_TAGS	9/21/2021, 3:17:08 PM	9/21/2021, 3:17:27 PM	✅ Complete	22	22	0	0
T101389_autotag_u2source_pol	AUTOTAG	9/21/2021, 2:32:39 PM	9/21/2021, 2:32:41 PM	✅ Complete	22	22	0	0
T101389_contentsearch_u2source_pol	AUTOTAG	9/21/2021, 2:27:44 PM	9/21/2021, 2:27:46 PM	✅ Complete	22	22	0	0
T101389_aircraft_import_scenario2_pol	IMPORT_TAGS	9/21/2021, 1:03:52 AM	9/21/2021, 1:04:11 AM	✅ Complete	22	22	0	0
T101389_aircraft_import_scenario1_pol	IMPORT_TAGS	9/20/2021, 11:21:32 PM	9/20/2021, 11:21:49 PM	✅ Complete	11	11	0	0
T101389_aircraft_import_scenario1_pol	IMPORT_TAGS	9/20/2021, 11:17:06 PM	9/20/2021, 11:17:22 PM	✅ Complete	11	11	0	0
T101389_aircraft_import_pol	IMPORT_TAGS	9/20/2021, 9:18:41 PM	9/20/2021, 9:18:59 PM	✅ Complete	11	11	0	0
T101389_aircraft_import_pol	IMPORT_TAGS	9/20/2021, 9:16:06 PM	9/20/2021, 9:16:13 PM	✅ Complete	0	0	0	0
T101389_aircraft_import_pol	IMPORT_TAGS	9/20/2021, 9:08:05 PM	9/20/2021, 9:08:40 PM	✅ Complete	0	0	0	0
ap_cs_body	CONTENTSEARCH	9/17/2021, 2:51:17 PM	9/17/2021, 2:51:25 PM	✅ Complete	16	16	0	0

Find the Dataset using SQL Query

New Sets of Metadata Tags Populated with Values from Manifest by IMPORT_TAGS Policy

Results view: ⑦

Condensed	**Individual**

Inspecting records
22

Grouped By

- ☐ Cluster
- ☐ Datasource
- ☐ Filegroup
- ☐ Filename
- ☐ Fileset

Show more...

Matched 22 records from metaocean_view table in 0.061466 seconds

udc dem2	u2 id	u2 source	u2 width	u2 height	u2 xmin	u2 ymin	u2 xmax	u2 ymax
T101389-s1	T101389-10000	annotated	1000	551	308	126	651	201
T101389-s1	T101389-10001	annotated	1200	800	299	197	1102	569
T101389-s1	T101389-10002	annotated	1280	850	322	112	893	618
T101389-s1	T101389-10003	annotated	1300	867	607	204	1202	529
T101389-s1	T101389-10004	annotated	1800	1200	32	60	1800	766
T101389-s1	T101389-10005	annotated	1200	1200	647	521	973	768
T101389-s1	T101389-10006	annotated	1200	675	560	308	647	329
T101389-s1	T101389-10007	annotated	1280	857	176	263	1280	553
T101389-s1	T101389-10008	annotated	960	640	58	133	889	397

Items per page: 50 ⌄   1–22 of 22 items   1 ⌄ of 1 pages ◄ ►

Query builder

filename LIKE ('%T101389%') AND filetype LIKE ('%jpg%')

Query Results

Results view: ⑦

Matched 22 records from metaocean_view table in 0.058539 seconds

| Condensed | Individual |

22 items selected | Generate report | Add tags | Export data | Cancel

Inspecting records
22

☑ path	filename	udc dem2	u2 id	udc dem3	u2 source	u2 width	u2 l

Grouped By

Add tags

22 files selected

| udc-dem3 ∨ | T101389-s2 |

Add another tag

☐ Cluster
☐ Datasource
☐ Filegroup
☐ Filename
☐ Fileset

Show more...

| Cancel | Submit |

	-s2	annotated	1000
	-s2	annotated	1200
	-s2	annotated	NULL
	-s2	annotated	1300
	-s2	annotated	1800
	-s2	annotated	1200

☑	udc-vault/	T101389/dataset/annotated/00d4b7ea93ca1417393007c61c519f88.jpg	T101389-s1	T101389-10006	T101389-s2	annotated	1200
☑	udc-vault/	T101389/dataset/annotated/00db76f676528477c66c93c7d24d7524.jpg	T101389-s1	T101389-10007	T101389-s2	annotated	1280
☑	udc-vault/	T101389/dataset/annotated/00ebecac178be3c3890a067d6a28234e.jpg	T101389-s1	T101389-10008	T101389-s2	annotated	960
☐	udc-	T101389/dataset/annotated					

Items per page: 10 ∨   1–10 of 22 items

1 ∨ of 3 pages ◁ ▷

Results view: ⑦

Condensed	**Individual**

Inspecting records
22

Grouped By

- ☐ Cluster
- ☐ Datasource
- ☐ Filegroup
- ☐ Filename
- ☐ Fileset

Show more...

Matched 22 records from metaocean_view table in 0.061466 seconds

🔍 ⚙️

☐	path	filename	u2 id	udc dem3	u2 source	u2 width	u2 height
☐	udc-vault/	T101389/dataset/annotated/000ec980b5b17156a55093b4bd6004ab.jpg	T101389-10000	T101389-s2	annotated	1000	551
☐	udc-vault/	T101389/dataset/annotated/00afb4420bdce881ad216867c713c800.jpg	T101389-10001	T101389-s2	annotated	1200	800
☐	udc-vault/	T101389/dataset/annotated/00b2add164cb42440a52064e390ea3d2.jpg	T101389-10002	T101389-s2	annotated	1280	850
☐	udc-vault/	T101389/dataset/annotated/00b627cb5578bb036edb01cdcf7b56d9.jpg	T101389-10003	T101389-s2	annotated	1300	867
☐	udc-vault/	T101389/dataset/annotated/00c09f406d31a0cd9402862fbd26d930.jpg	T101389-10004	T101389-s2	annotated	1800	1200
☐	udc-vault/	T101389/dataset/annotated/00c54e200e0d868faac8c55bfca70dbe.jpg	T101389-10005	T101389-s2	annotated	1200	1200
☐	udc-vault/	T101389/dataset/annotated/00d4b7ea93ca1417393007c61c519f88.jpg	T101389-10006	T101389-s2	annotated	1200	675
☐	udc-vault/	T101389/dataset/annotated/00db76f676528477c66c93c7d24d7524.jpg	T101389-10007	T101389-s2	annotated	1280	857
☐	udc-vault/	T101389/dataset/annotated/00ebecac178be3c3890a067d6a28234e.jpg	T101389-10008	T101389-s2	annotated	960	640
☐	udc-	T101389/dataset/annotated					

Items per page:	50 ⌄	1–22 of 22 items		1 ⌄	of 1 pages	◀ ▶

Query builder

```
filename LIKE ('%T101389%') AND filetype LIKE ('%jpg%')
```

Query builder

Visual query   SQL query

Query preview...

Site	0/5
Sizerange	0/4
State	0/2
Td_bh01_tumor	0/10
Temperature	0/1
Tier	0/2
Timesinceaccess	0/5
U2-id	0/12
U2-type	0/10
Udc-dem2	0/5

■ null ■ T101389-s1 ■ T101389-s2 ■ E1016270-SGDSO ■ E1016270-demo

udc-dem2	count
NULL	21,973
T101389-s1	11
T101389-s2	11
E1016270-SGDSO	8
E1016270-demo	1

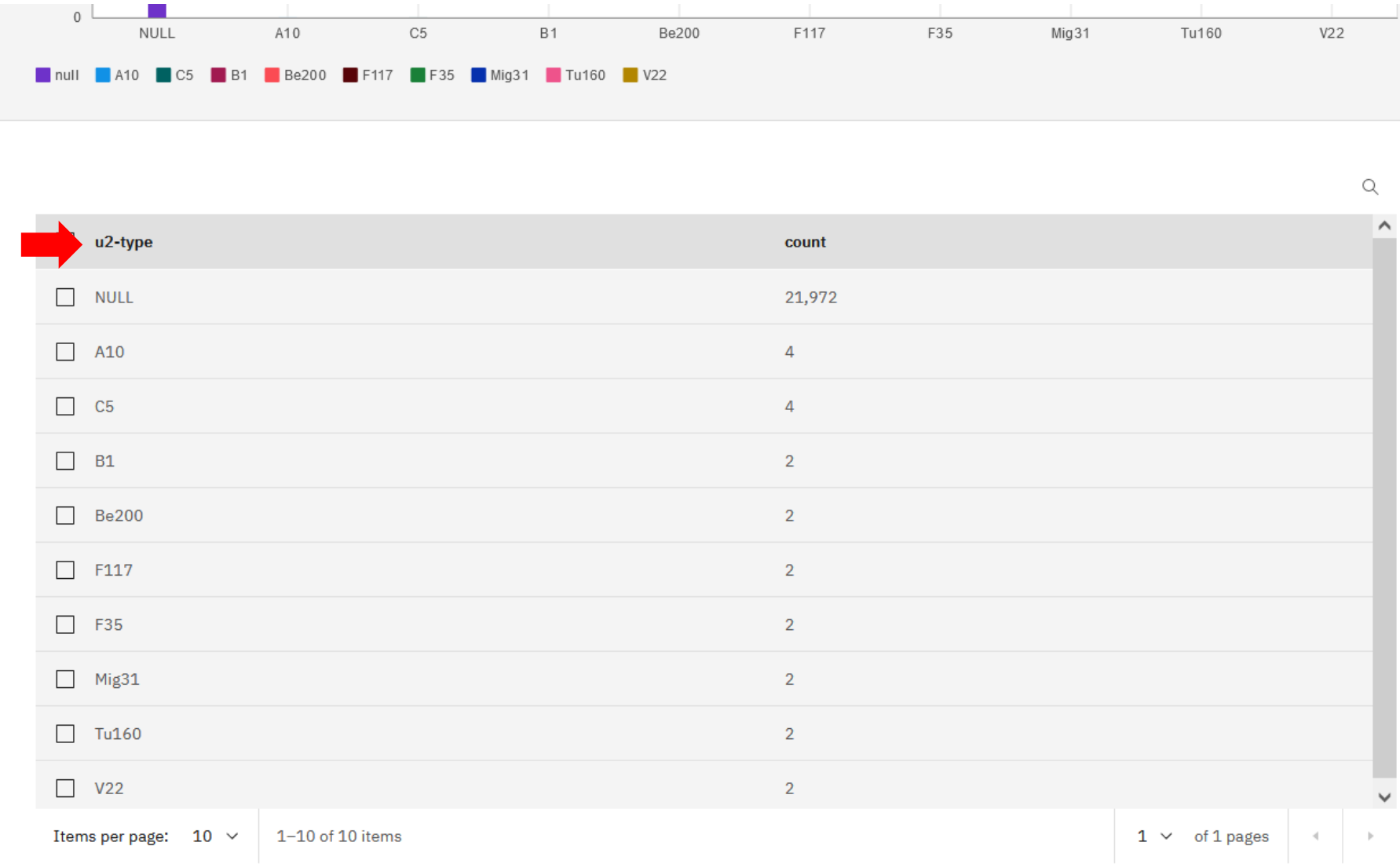Items per page: 10 ⌄   1–5 of 5 items   1 ⌄ of 1 pages

Browse Dataset with Metadata Tag "u2-type"

Query builder

Visual query　　**SQL query**

Select * from Spectrum Discover where...

u2-id LIKE ('%T101389-10005%')

Group by

[1 ✕] Groups selected ⌄

Limit results

10000

Setting a lower limit may increase speed of re

Results view:

Matched 2 records from metaocean_view table in 0.038424 seconds

Condensed	**Individual**

Inspecting records

2

Grouped By

- [ ] Cluster
- [ ] Datasource
- [ ] Filegroup
- [ ] Filename
- [ ] Fileset

Show more...

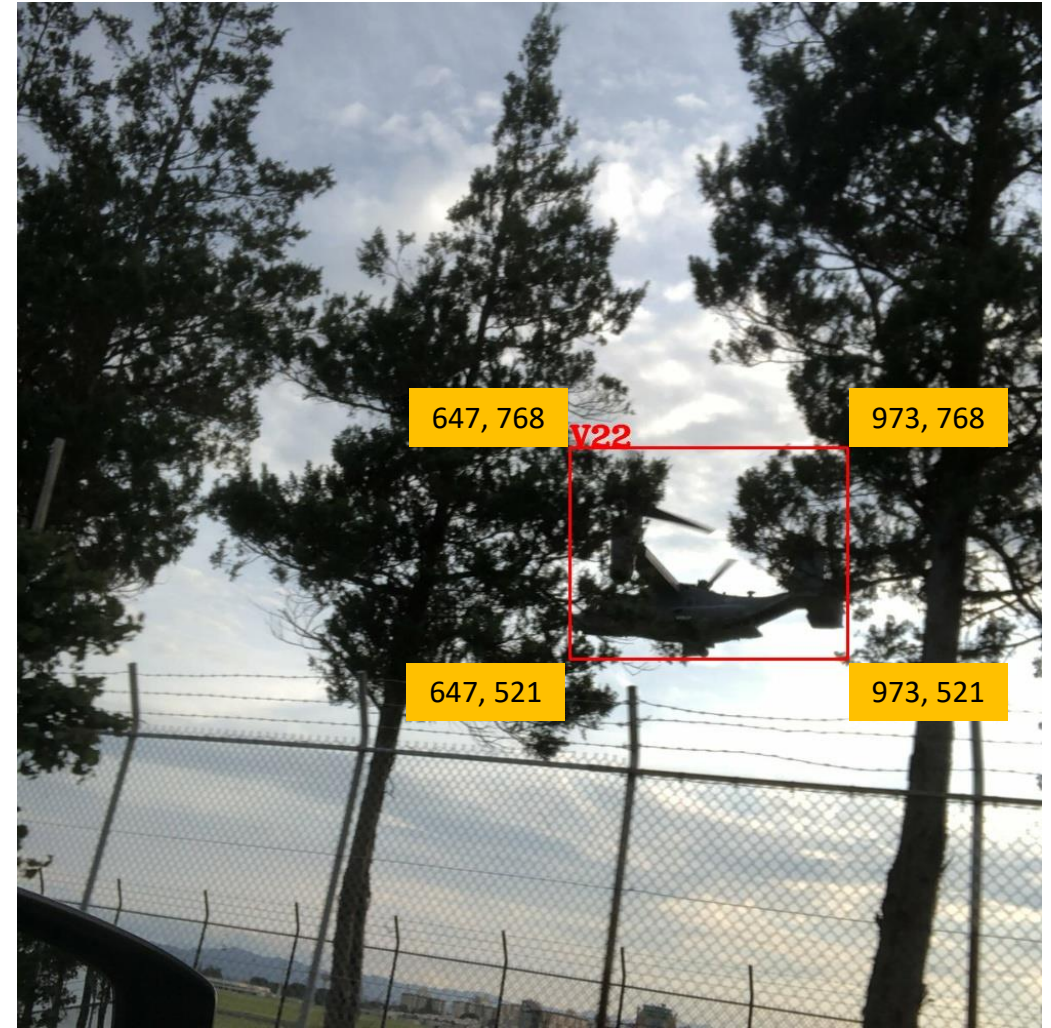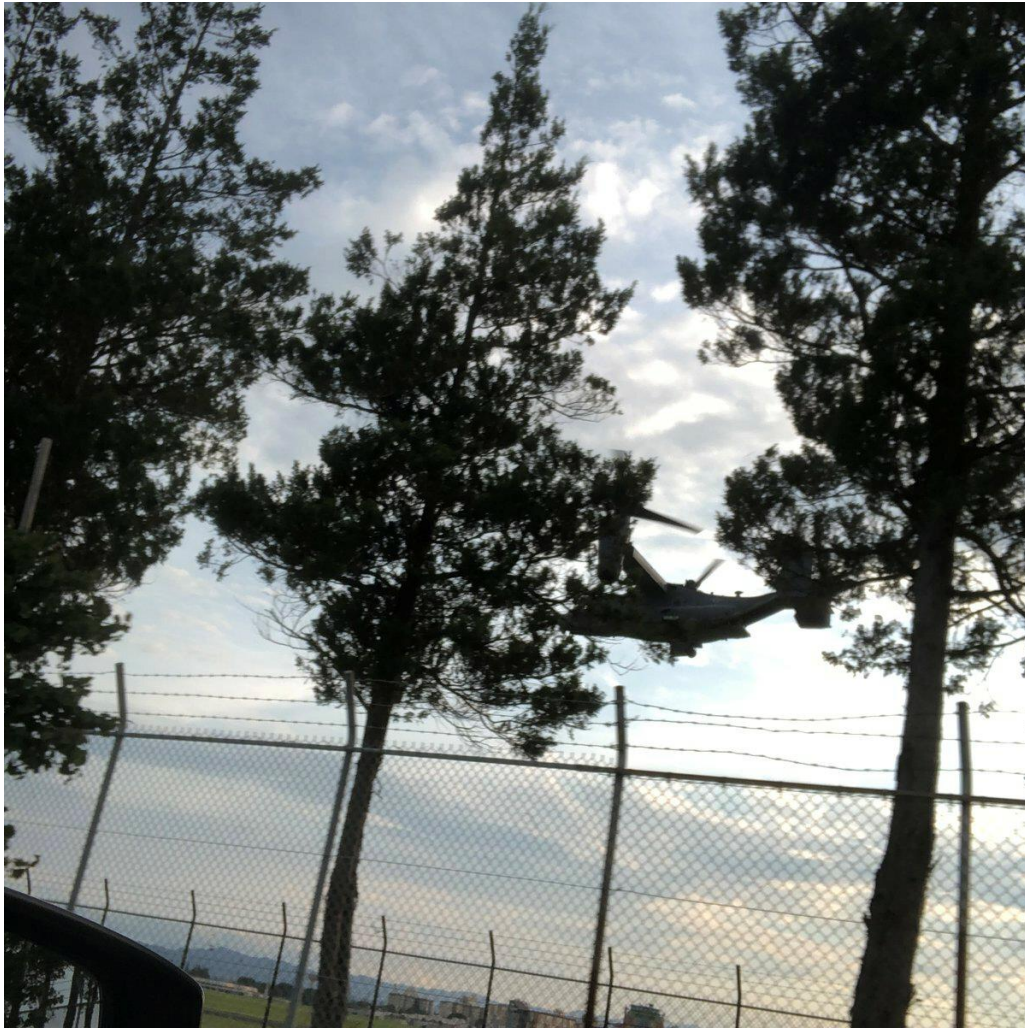| filename	u2 id	udc dem2	u2 type	u2 width	u2 height	u2 xmin	u2 xma
T101389/scenario2/raw/00c54e200e0d868faac8c55bfca70dbe.jpg	T101389-10005	NULL	V22	1200	1200	NULL	NU
T101389/scenario2/annotated/00c54e200e0d868faac8c55bfca70dbe.jpg	T101389-10005	T101389-s2	V22	1200	1200	647	9

Items per page: 10 ⌄   1–2 of 2 items   1 ⌄   of 1 pages

Query builder

    u2-id LIKE ('%T101389-10005%')

647, 768

973, 768

v22

647, 521

973, 521

u2-id = T101389-10005