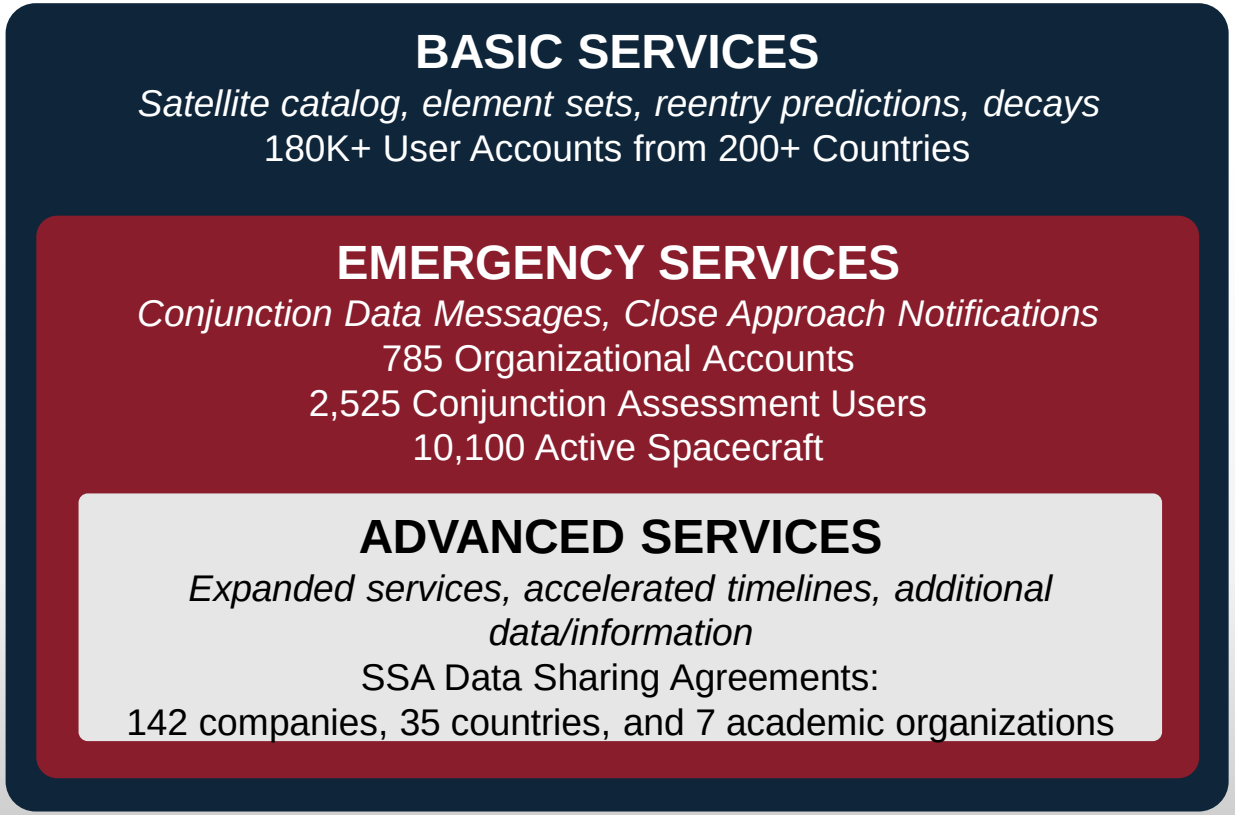
SPACE-TRACK.ORG DEMONSTRATION

https://www.space-track.org

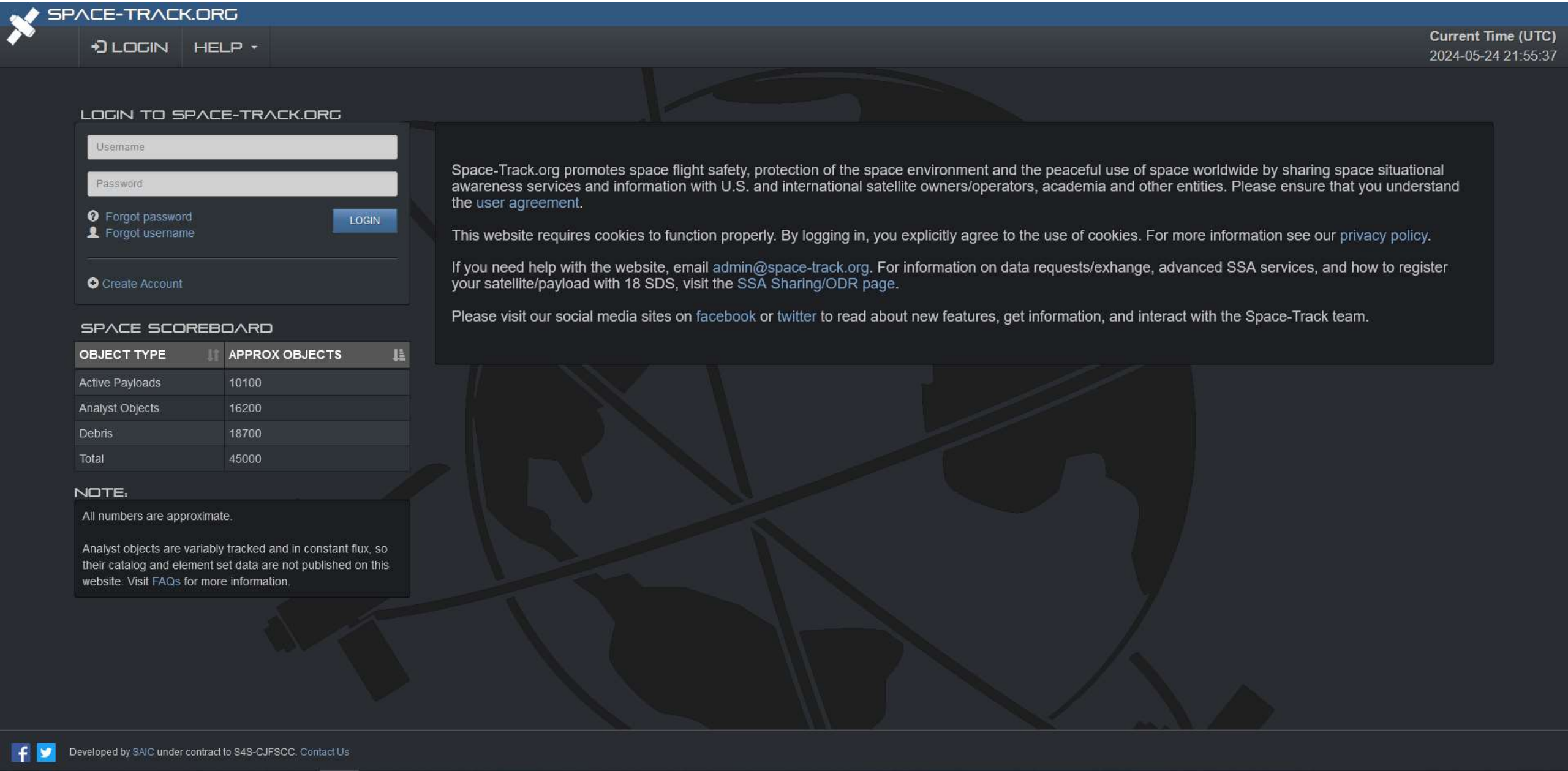
Overview

- Login & Help
- Basic User Access
- Satellite Operator Access



SPACE-TRACK.ORG

Login Page


SPACE-TRACK.ORG
LOGIN
HELP
Current Time (UTC)
2024-05-24 21:55:37
LOGIN TO SPACE-TRACK.ORG
Username
Password
Forgot password
Forgot username
LOGIN
Create Account
Space-Track.org promotes space flight safety, protection of the space environment and the peaceful use of space worldwide by sharing space situational awareness services and information with U.S. and international satellite owners/operators, academia and other entities. Please ensure that you understand the user agreement.
This website requires cookies to function properly. By logging in, you explicitly agree to the use of cookies. For more information see our privacy policy.
If you need help with the website, email admin@space-track.org. For information on data requests/exhange, advanced SSA services, and how to register your satellite/payload with 18 SDS, visit the SSA Sharing/ODR page.
Please visit our social media sites on facebook or twitter to read about new features, get information, and interact with the Space-Track team.
SPACE SCOREBOARD
OBJECT TYPE
APPROX OBJECTS
Active Payloads 10100
Analyst Objects 16200
Debris 18700
Total 45000
NOTE:
All numbers are approximate.
Analyst objects are variably tracked and in constant flux, so their catalog and element set data are not published on this website. Visit FAQs for more information.
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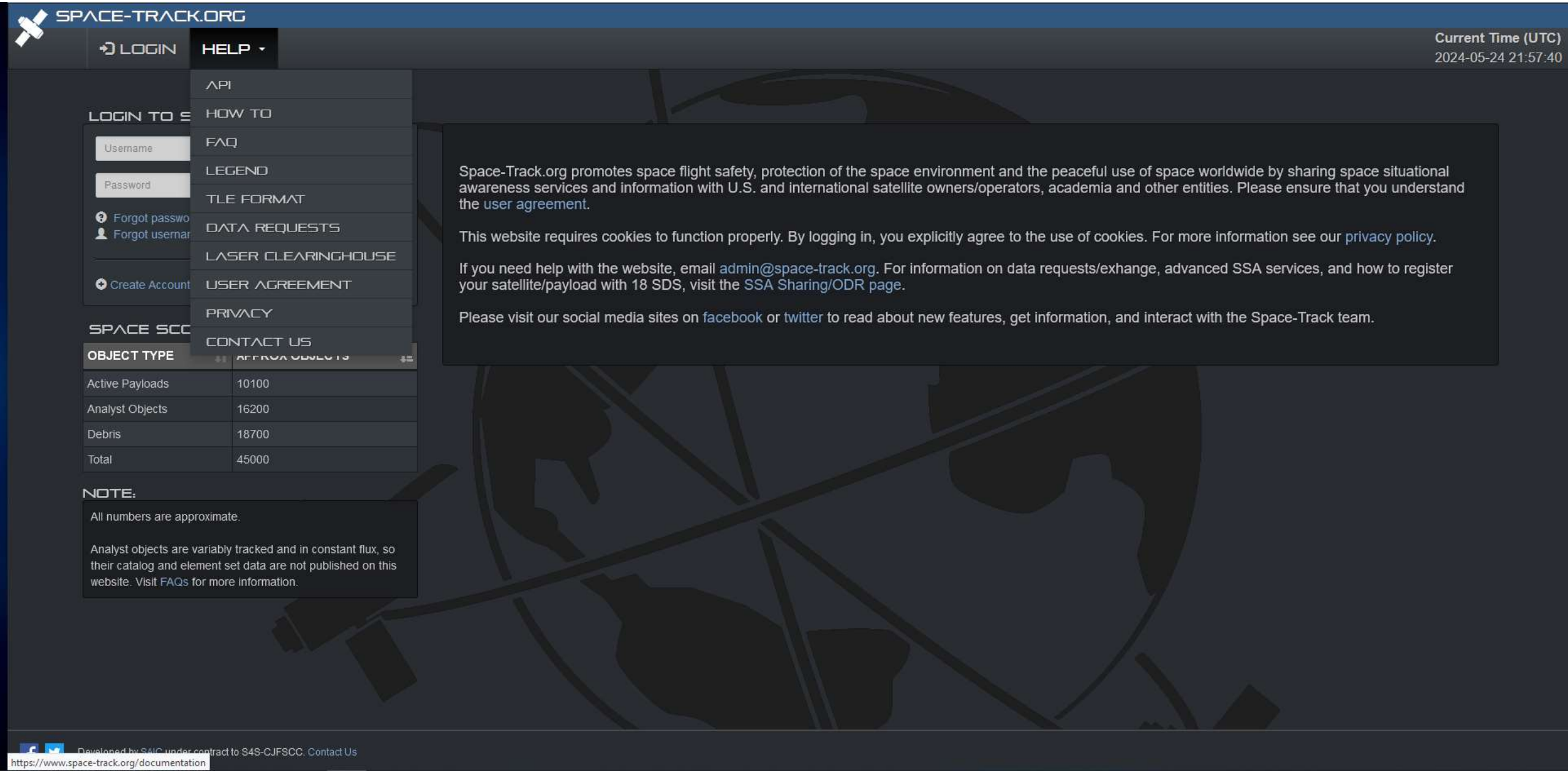
Help Panel


SPACE-TRACK.ORG
LOGIN
HELP
API
HOW TO
FAQ
LEGEND
TLE FORMAT
DATA REQUESTS
LASER CLEARINGHOUSE
USER AGREEMENT
PRIVACY
CONTACT US
Current Time (UTC)
2024-05-24 21:57:40
LOGIN TO S
Username
Password
Forgot passwo
Forgot usernar
Create Account
SPACE SCC
OBJECT TYPE
Active Payloads 10100
Analyst Objects 16200
Debris 18700
Total 45000
NOTE:
All numbers are approximate.
Analyst objects are variably tracked and in constant flux, so their catalog and element set data are not published on this website. Visit FAQs for more information.
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This website requires cookies to function properly. By logging in, you explicitly agree to the use of cookies. For more information see our privacy policy.
If you need help with the website, email admin@space-track.org. For information on data requests/exhange, advanced SSA services, and how to register your satellite/payload with 18 SDS, visit the SSA Sharing/ODR page.
Please visit our social media sites on facebook or twitter to read about new features, get information, and interact with the Space-Track team.
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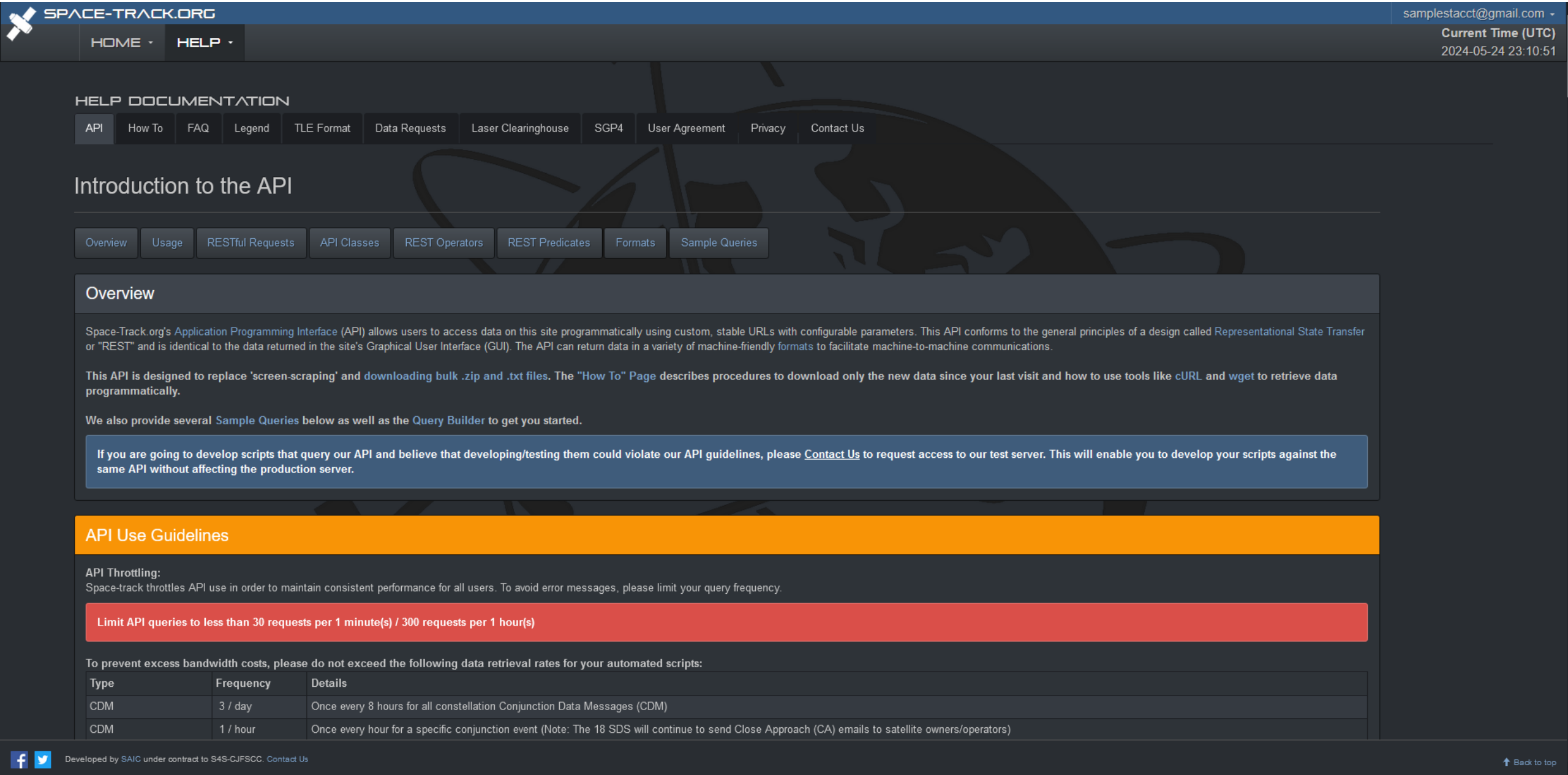
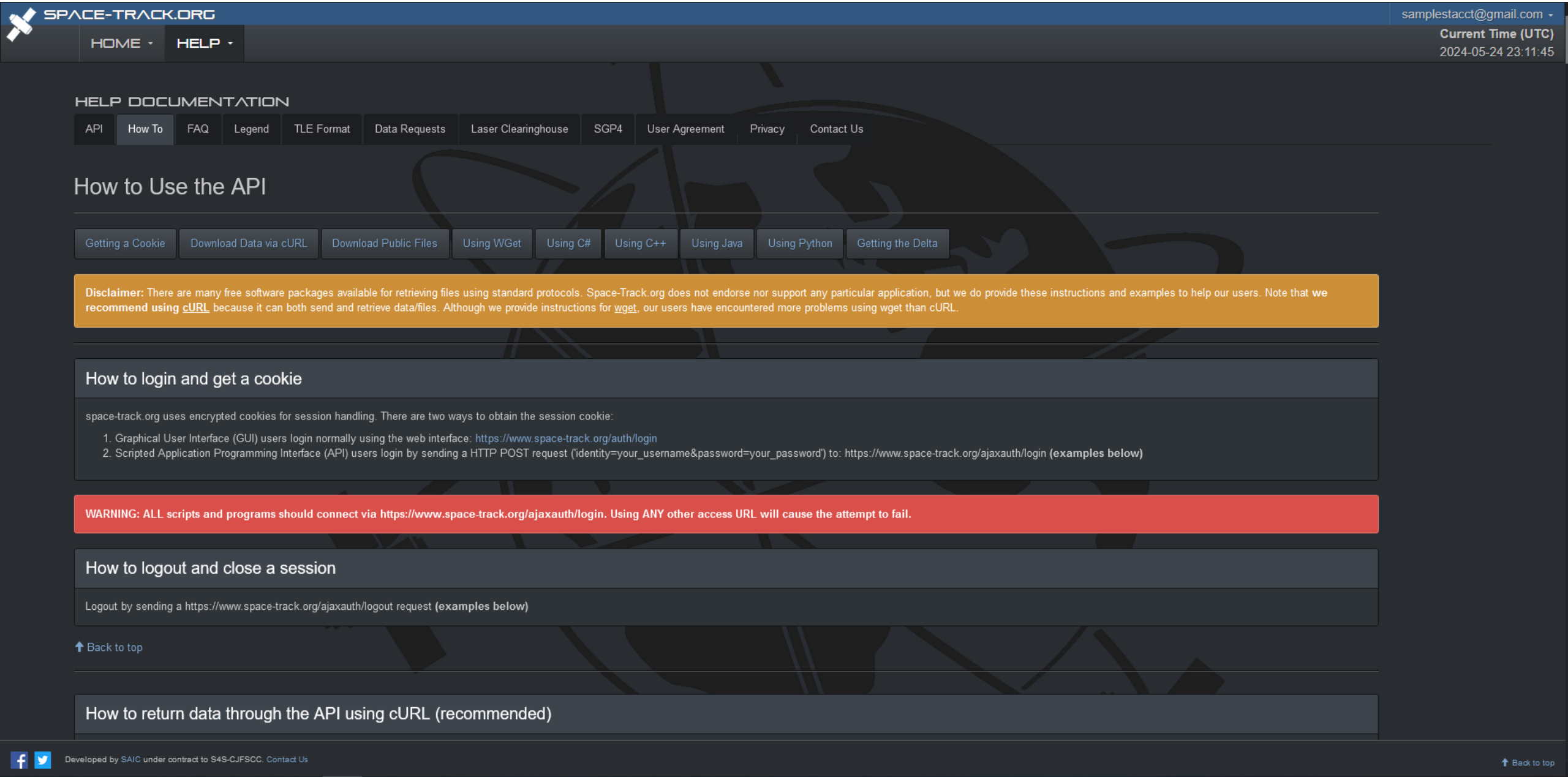
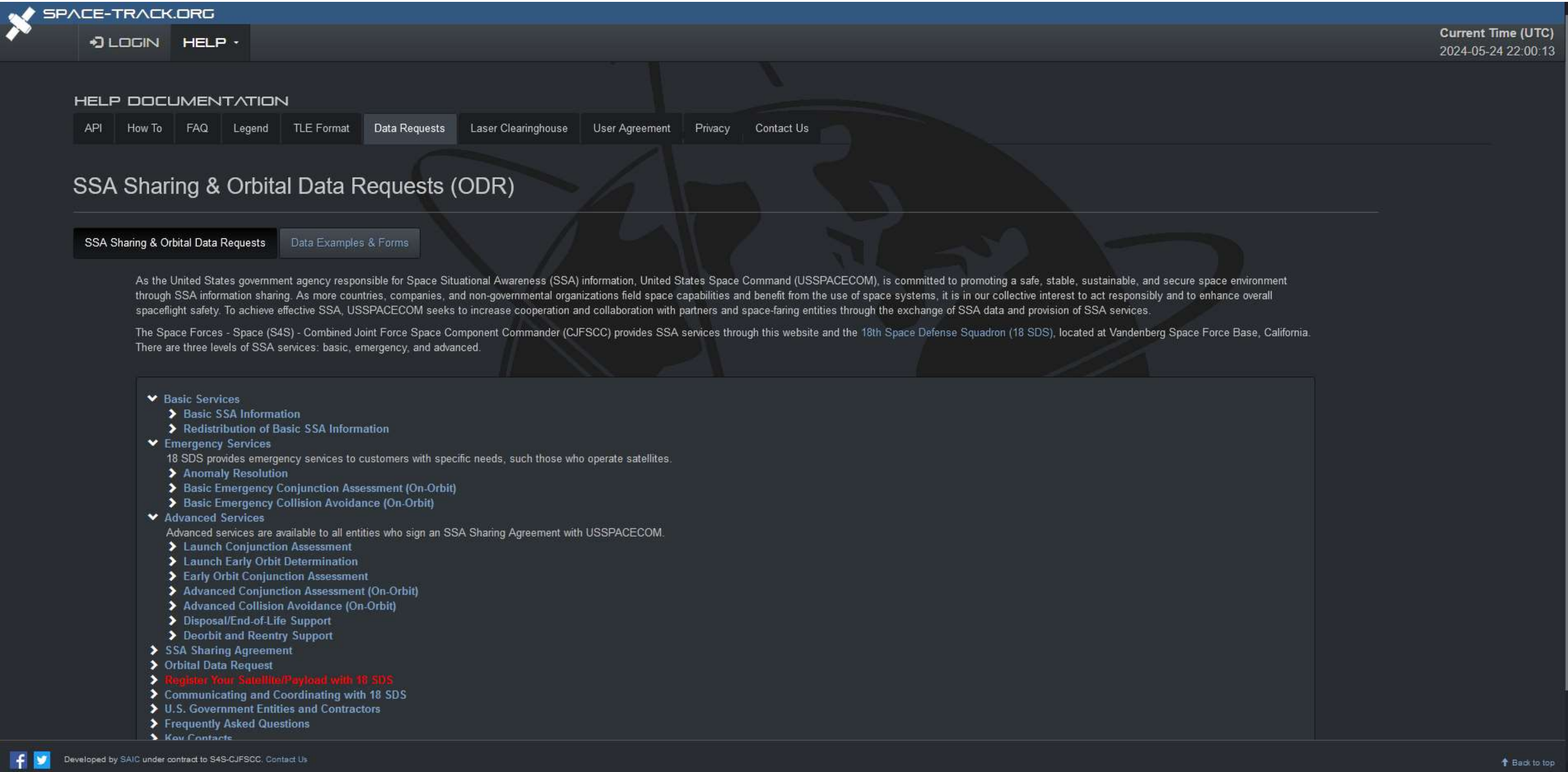
Help Panel: API



Help Panel: How To



Help Panel: Data Requests



Home Panel

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HOME HELP

Current Time (UTC)
2024-05-24 23:13:58

Welcome | Box Score | SATCAT | Decay/Reentry | Query Builder | Favorites | ELSET Search | Recent ELSETs | SSR | Conjunctions | Public Files | Space Ops Tempo

ELEMENT SET (ELSET) DATA
Retrieve ELSET Data by Satellite Catalog Number
Bulk Catalog Data Downloads
TLE Format Description
CCSDS OMM Standard

SATELLITE CATALOG (SATCAT) DATA
Satellite Box Score (API)
Satellite Search
Catalog Change Report - now parts 4 & 5 of the SSR
Geosynchronous Report (API)
Satellite Situation Report

SATELLITE DECAY & REENTRY DATA
Satellite Decays, Predictions, and TIP Messages
Search the SATCAT by Satellite Decay Date

RESOURCES
NASA Spacecraft Conjunction Assessment and Collision Avoidance Best Practices Handbook
Spaceflight Safety Handbook
Launch Collision Avoidance Handbook
Satellite Registration Form
Data & Support Requests

MY ACCOUNT
My Profile
Change Password
Change Theme
My Favorites

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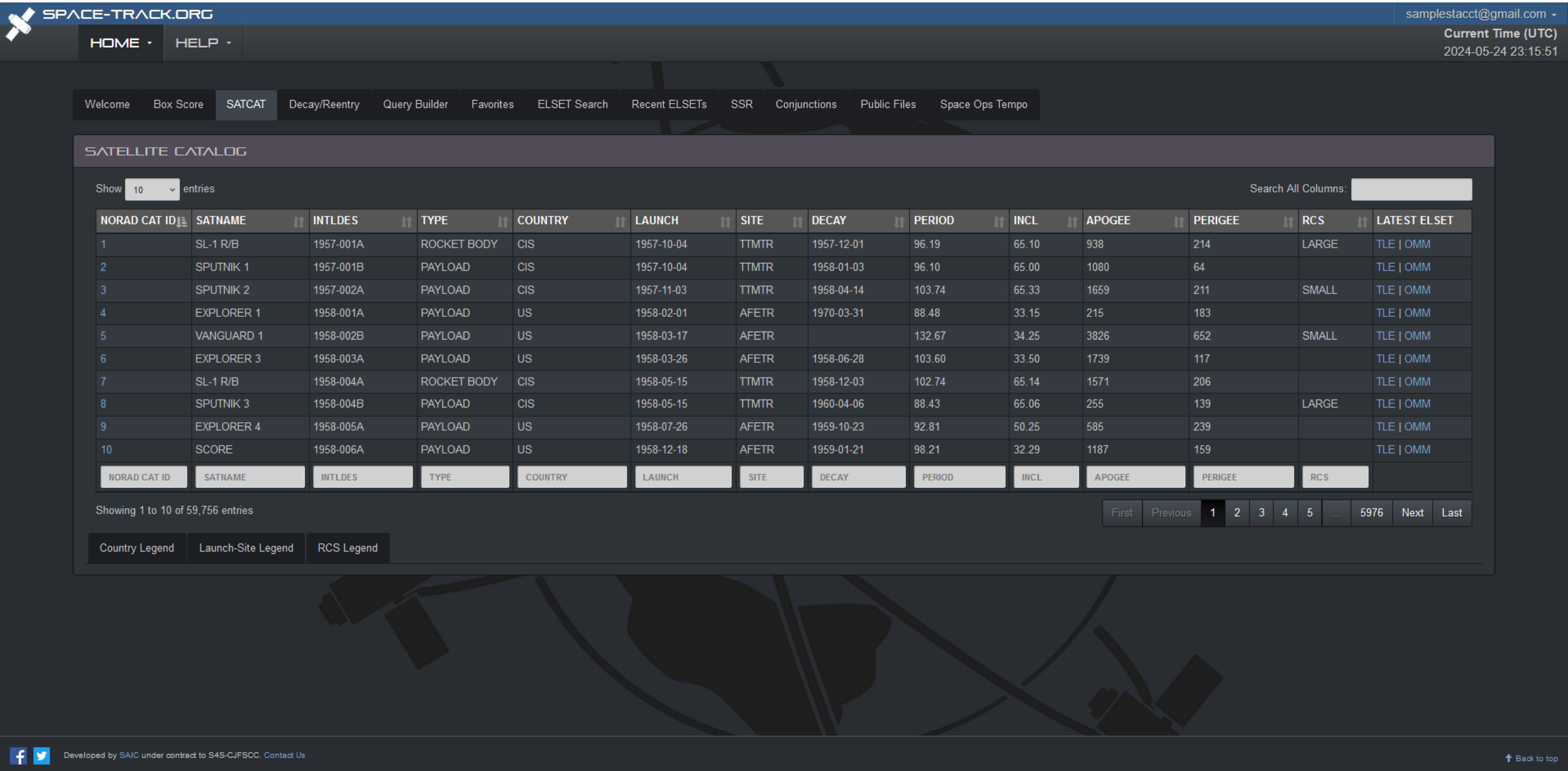
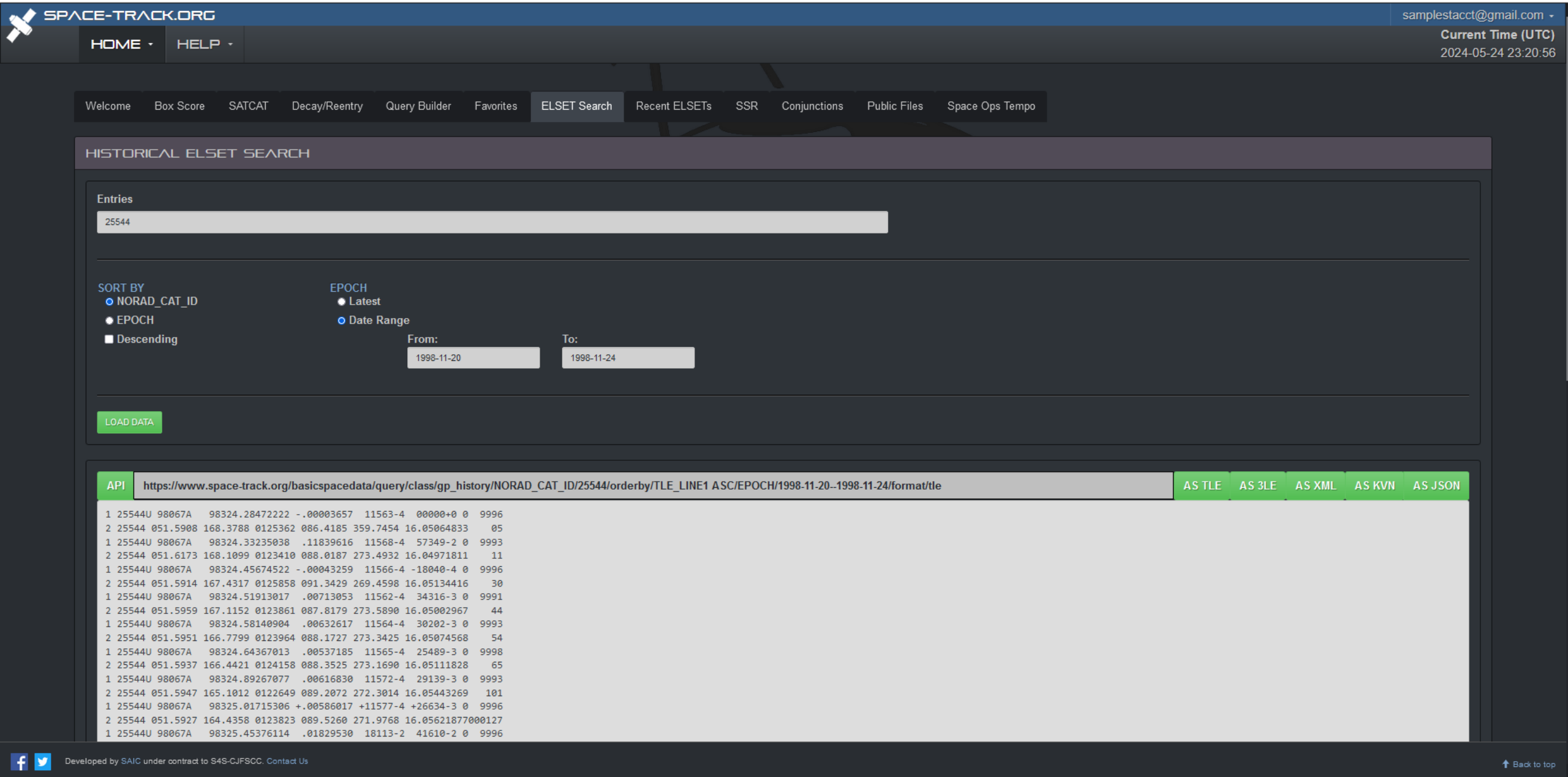
Back to top

Home Panel: SATCAT



Home Panel: ELSET Search



Home Panel: Decay/Reentry

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HOME | HELP

Current Time (UTC)
2024-05-24 23:16:28

Welcome | Box Score | SATCAT | Decay/Reentry | Query Builder | Favorites | ELSET Search | Recent ELSETs | SSR | Conjunctions | Public Files | Space Ops Tempo

DECAY DATA

Show 10 entries

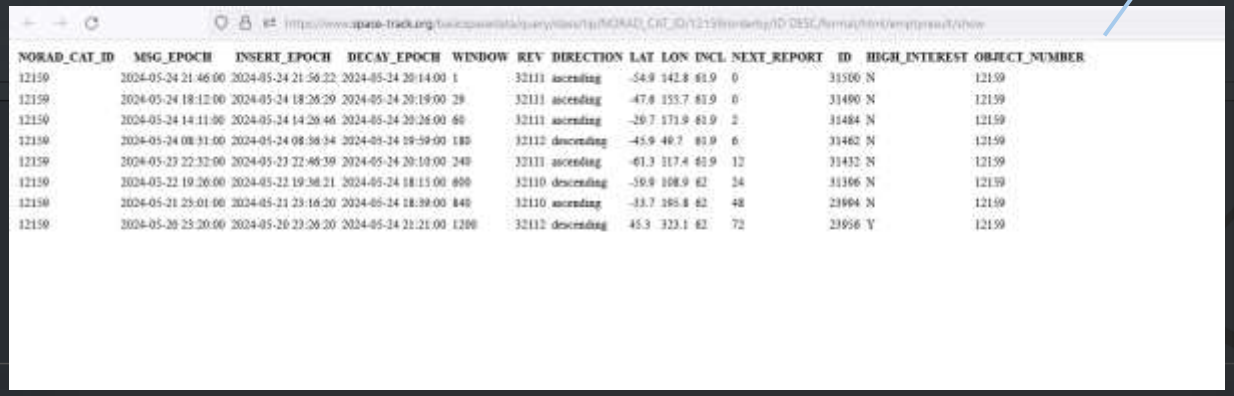
Search All Columns:

NORAD CAT ID	SATNAME	INTLDES	COUNTRY	MSG_EPOCH	DECAY_EPOCH	RCS	SOURCE	ELSET	TYPE
48638	STARLINK-2758	2021-044A	US	2024-05-24 21:55:00	2024-05-25 9:56:00	LARGE	TIP_msg	TLE | OMM	Prediction
34298	COSMOS 2251 DEB	1993-036MU	CIS	2024-05-24 21:50:00	2024-05-23 0:00:00	SMALL	decay_msg	TLE | OMM	Historical
35676	COSMOS 2251 DEB	1993-036APT	CIS	2024-05-24 21:50:00	2024-05-23 0:00:00	SMALL	decay_msg	TLE | OMM	Historical
35227	FENGYUN 1C DEB	1999-025DQK	PRC	2024-05-24 21:50:00	2024-05-21 0:00:00	SMALL	decay_msg	TLE | OMM	Historical
12159	SL-6 R/B(2)	1981-009D	CIS	2024-05-24 21:46:00	2024-05-24 20:14:00	LARGE	TIP_msg	TLE | OMM	Prediction
34069	COSMOS 2251 DEB	1993-036KG	CIS	2024-05-24 21:37:00	2024-05-21 0:00:00	SMALL	decay_msg	TLE | OMM	Historical
52733	LEMUR 2 VANDENDRIES	2022-057B	US	2024-05-24 21:37:00	2024-05-21 0:00:00	SMALL	decay_msg	TLE | OMM	Historical
55251	OBJECT D	2023-007D	PRC	2024-05-24 21:37:00	2024-05-21 0:00:00	MEDIUM	decay_msg	TLE | OMM	Historical
41092	NOAA 16 DEB	2000-055BB	US	2024-05-24 21:37:00	2024-05-20 0:00:00	SMALL	decay_msg	TLE | OMM	Historical
48168	NOAA 17 DEB	2002-032J	US	2024-05-24 21:37:00	2024-05-19 0:00:00	SMALL	decay_msg	TLE | OMM	Historical
NORAD CAT ID	SATNAME	INTLDES	COUNTRY	MSG_EPOCH	DECAY_EPOCH	RCS	SOURCE		Type

Showing 1 to 10 of 101,730 entries

First | Previous | 1 | 2 | 3 | 4 | 5 | ... | 10173 | Next | Last

Country Legend | RCS Legend



NORAD_CAT_ID	MSG_EPOCH	INSERT_EPOCH	DECAY_EPOCH	WINDOW	REV	DIRECTION	LAT	LON	INCL	NEXT_REPORT	ID	HIGH_INTEREST	OBJECT_NUMBER
12159	2024-05-24 21:46:00	2024-05-24 21:56:22	2024-05-24 20:14:00	1	32111	ascending	-54.9	142.8	81.9	0	31500	N	12159
12159	2024-05-24 18:12:00	2024-05-24 18:26:29	2024-05-24 20:19:00	29	32111	ascending	-47.0	153.7	81.9	0	31490	N	12159
12159	2024-05-24 14:11:00	2024-05-24 14:26:46	2024-05-24 20:26:00	60	32111	ascending	-20.7	171.9	81.9	2	31484	N	12159
12159	2024-05-24 08:31:00	2024-05-24 08:38:34	2024-05-24 19:59:00	180	32112	descending	-45.9	49.7	81.9	6	31462	N	12159
12159	2024-05-23 22:32:00	2024-05-23 22:46:39	2024-05-24 20:10:00	240	32111	ascending	-61.3	117.4	81.9	12	31432	N	12159
12159	2024-05-22 19:26:00	2024-05-22 19:38:21	2024-05-24 18:15:00	600	32110	descending	-59.9	108.9	82	24	31396	N	12159
12159	2024-05-21 23:01:00	2024-05-21 23:16:20	2024-05-24 18:39:00	840	32110	ascending	-33.7	185.8	82	48	23994	N	12159
12159	2024-05-20 23:20:00	2024-05-20 23:26:20	2024-05-24 21:21:00	1200	32112	descending	45.3	323.1	82	72	23956	Y	12159

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Back to top

Home Panel: Conjunctions

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HOME HELP

Current Time (UTC)
2024-05-24 23:24:19

Welcome | Box Score | SATCAT | Decay/Reentry | Query Builder | Favorites | ELSET Search | Recent ELSETs | SSR | Conjunctions | Public Files | Space Ops Tempo

PUBLIC CONJUNCTIONS

LOAD PUBLIC CDMS

Show 10 entries

Search All Columns:

GENERAL						SAT 1					SAT 2				
CDM_ID	CREATED	EMERGENCY REPORTABLE	TCA	MINIMUM RANGE	COLLISION PROBABILITY	ID	NAME	OBJECT TYPE	RCS	EXCLUSION VOLUME	ID	NAME	OBJECT TYPE	RCS	EXCLUSION VOLUME
712939462	2024-04-25 01:34:27.000000	Y	2024-04-27 06:09:34.512000	560	0.0001093865	4158	THORAD AGENA D DEB	DEBRIS	MEDIUM	1.00	56594	CZ-6A DEB	DEBRIS	SMALL	1.00
712941607	2024-04-25 01:34:41.000000	Y	2024-04-25 12:45:12.495000	368	0.0001347659	8836	SSU 2	PAYLOAD	MEDIUM	5.00	30218	FENGYUN 1C DEB	DEBRIS	SMALL	1.00
712941620	2024-04-25 01:34:41.000000	Y	2024-04-25 18:44:17.482000	229	0.0001623728	8845	METEOR 1-25	PAYLOAD	LARGE	5.00	31229	FENGYUN 1C DEB	DEBRIS	SMALL	1.00
712941743	2024-04-25 01:34:42.000000	Y	2024-04-27 15:25:31.377000	314	0.0001052355	9025	COSMOS 842	PAYLOAD	LARGE	5.00	38265	YAOGAN 7 DEB	DEBRIS	SMALL	1.00
712942396	2024-04-25 01:34:46.000000	Y	2024-04-26 10:55:13.473000	457	0.0001096476	10572	COSMOS 970 DEB	DEBRIS	MEDIUM	1.00	270025	UNKNOWN	UNKNOWN	SMALL	3.00
712942511	2024-04-25 01:34:47.000000	Y	2024-04-25 15:29:49.184000	314	0.0001027393	10918	SL-8 R/B	ROCKET BODY	LARGE	3.00	42561	DELTA 1 DEB *	DEBRIS	SMALL	1.00
712942986	2024-04-25 01:34:51.000000	Y	2024-04-26 23:20:27.401000	880	0.0001352528	12354	COSMOS 1174 DEB	DEBRIS	MEDIUM	1.00	21798	DMSP 5D-2 F11 (USA 73)	PAYLOAD	LARGE	5.00
712943799	2024-04-25 01:34:56.000000	Y	2024-04-26 07:29:12.687000	45	0.0001347338	13478	COSMOS 1275 DEB	DEBRIS	SMALL	1.00	32324	FENGYUN 1C DEB	DEBRIS	SMALL	1.00
712945678	2024-04-25 01:35:08.000000	Y	2024-04-25 17:13:30.385000	730	0.0001323008	16969	NOAA 10	PAYLOAD	LARGE	5.00	35405	CZ-4B DEB	DEBRIS	SMALL	1.00
712946251	2024-04-25 01:35:12.000000	Y	2024-04-25 12:20:55.619000	306	0.0002443711	18187	COSMOS 1867	PAYLOAD	LARGE	5.00	41661	NOAA 16 DEB	DEBRIS	SMALL	1.00
CDM_ID	CREATED	EMERGENCY REPOR	TCA	MINIMUM RAN	COLLISION PROBAI	ID	NAME	OBJECT TYP	RCS	EXCLUSION VOL	ID	NAME	OBJECT TYP	RCS	EXCLUSION VOL

Home Panel: Public Files

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HOME | HELP

Current Time (UTC)
2024-05-24 23:24:51

Welcome | Box Score | SATCAT | Decay/Reentry | Query Builder | Favorites | ELSET Search | Recent ELSETs | SSR | Conjunctions | Public Files | Space Ops Tempo

Please see instructions below for field descriptions and data types.

PUBLIC FILES

Show 10 entries

Search All Columns:

SOURCE	TYPE	DATE	LINK	SIZE
NASA-JSC	ReadMe	2024-05-14 16:13:24	NASAJSC_ReadMe_23643_ReadMe_2024-05-14UTC16:13:16_1.zip	685 Bytes
NASA-JSC	Ephemeris	2024-05-24 19:41:01	NASAJSC_Ephemeris_23644_15Day_2024-05-24UTC19:40:54_1.zip	393.04 KB
NASA-JSC	Ephemeris	2024-05-22 15:26:40	NASAJSC_Ephemeris_23645_8Week_2024-05-22UTC15:26:34_1.zip	1.07 MB
SpaceX	Ephemeris	2024-05-24 05:29:55	SpaceX_Ephemeris_552_SpaceX_2024-05-24UTC05:21:03_1.zip	493.99 MB
SpaceX	Ephemeris	2024-05-24 05:26:56	SpaceX_Ephemeris_552_SpaceX_2024-05-24UTC05:21:03_10.zip	324.49 MB
SpaceX	Ephemeris	2024-05-24 05:39:05	SpaceX_Ephemeris_552_SpaceX_2024-05-24UTC05:21:03_2.zip	497.09 MB
SpaceX	Ephemeris	2024-05-24 05:39:59	SpaceX_Ephemeris_552_SpaceX_2024-05-24UTC05:21:03_3.zip	496.87 MB
SpaceX	Ephemeris	2024-05-24 05:30:08	SpaceX_Ephemeris_552_SpaceX_2024-05-24UTC05:21:03_4.zip	497.7 MB
SpaceX	Ephemeris	2024-05-24 05:30:37	SpaceX_Ephemeris_552_SpaceX_2024-05-24UTC05:21:03_5.zip	499.23 MB
SpaceX	Ephemeris	2024-05-24 05:29:58	SpaceX_Ephemeris_552_SpaceX_2024-05-24UTC05:21:03_6.zip	497.78 MB
SOURCE	TYPE	DATE	LINK	SIZE

Showing 1 to 10 of 31 entries

First | Previous | 1 | 2 | 3 | 4 | Next | Last

Public Files

Public data files are archives of files designed to be downloaded by the public.
Large sets of data are broken into smaller chunks to make it easier to download. Each file will have the part number appended to the end of the file name.
For NASA-JSC ephemeris, please see data type ReadMe for usage instructions.
Source - source of the data.
Type - type of data stored in the file. Can be a regular data type, such as Ephemeris, Maneuver, Mixed, ReadMe, or Other if applicable.
Date - date at which the file was generated.
Link - temporary, short-lived link to download the file.
Size - size of that specific file.

Operator Panel

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Current Time (UTC)
2024-05-24 22:22:19

HOME | OPERATOR | FILES | HELP

- COM
- DIRECTORY
- MANEUVER
- MANAGE
- HELP

Welcome | Bo | Decay/Reentry | Query Builder | Favorites | ELSET Search | Recent ELSETs | SSR | Conjunctions | Public Files | Space Ops Tempo

ELEMENT ATA
Retrieve ELSET Number
Bulk Catalog Dat
TLE Format Description
CCSDS OMM Standard

SATELLITE CATALOG (SATCAT) DATA
Satellite Box Score (API)
Satellite Search
Catalog Change Report - now parts 4 & 5 of the SSR
Geosynchronous Report (API)
Satellite Situation Report

SATELLITE DECAY & REENTRY DATA
Satellite Decays, Predictions, and TIP Messages
Search the SATCAT by Satellite Decay Date

RESOURCES
NASA Spacecraft Conjunction Assessment and Collision Avoidance Best Practices Handbook
Spaceflight Safety Handbook
Launch Collision Avoidance Handbook
Satellite Registration Form
Data & Support Requests

MY ACCOUNT
My Profile
Change Password
Change Theme
My Favorites


SATELLITE REGISTRATION

Step Zero: REGISTER THIS SATELLITE OPERATORS ON WWW.SPACE-TRACK.ORG

1. PERSON
Country

Privacy Contact Person(s)

2. SATELLITE NAME(S) AND TRACKING

2a. Have you checked the satellite catalog to make sure there is not already a satellite with this name or odesy? ☐

2b. Does the satellite have GPS or any other means of determining the orbit independently?
YES ☐ NO ☐

3. LAUNCH DATA

3a. Launch Provider

3b. Launch Vehicle

3c. Launch Date

3d. Primary Payload on Launch Name

3e. Planned Orbit (radius and inclination if there will be no orbital change)

SMALL SATELLITE DATA (up to 500 kg)

4. International Space Station (ISS)(ISS 2535) or Cygnus Deployments, if applicable
4a. Method/Identifier of Deployment

4b. Deployment Date

5. If NASA supported, Educational Launch of Nanosatellites (ELaNa) Number

6. Name or launch coordinator if applicable

SATELLITE & ORBIT INFORMATION

7a. Size of the satellite (U's for CubeSats, or mass in kg for larger satellites)

7b. Will anything be deployed from it? (anything to change its shape)

7c. Type of propulsion, if any

7d. Expected mission lifetime

7e. Will you be providing predicted ephemeris data to 18 SPCS? YES ☐ NO ☐
If yes, please provide details for the people/group at who will need to be able to upload the data

WWW.SPACE-TRACK.ORG: ORGANIZATION ACCOUNT DATA
(If you already have an organizational account, just enter the name and skip the rest of the section.)

8a. Organization name for account

8b. Primary representative(s): name and email address as registered on Space-Track (those who determine who gets consumption notices and manage contact information – see instructions) MUST BE REGISTERED On Space-Track

8c. Close Approach notifications (CAMs) MUST BE REGISTERED On Space-Track

Email addresses to receive collision messages and access the data

8d. Emergency notification phone number(s) (for someone who speaks English, please)

You're Done! Please submit file to 18SPCS.[illegible]@us.af.mil

18 SPCS SATELLITE RECORD MAINTENANCE, JUL 2021

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Back to top

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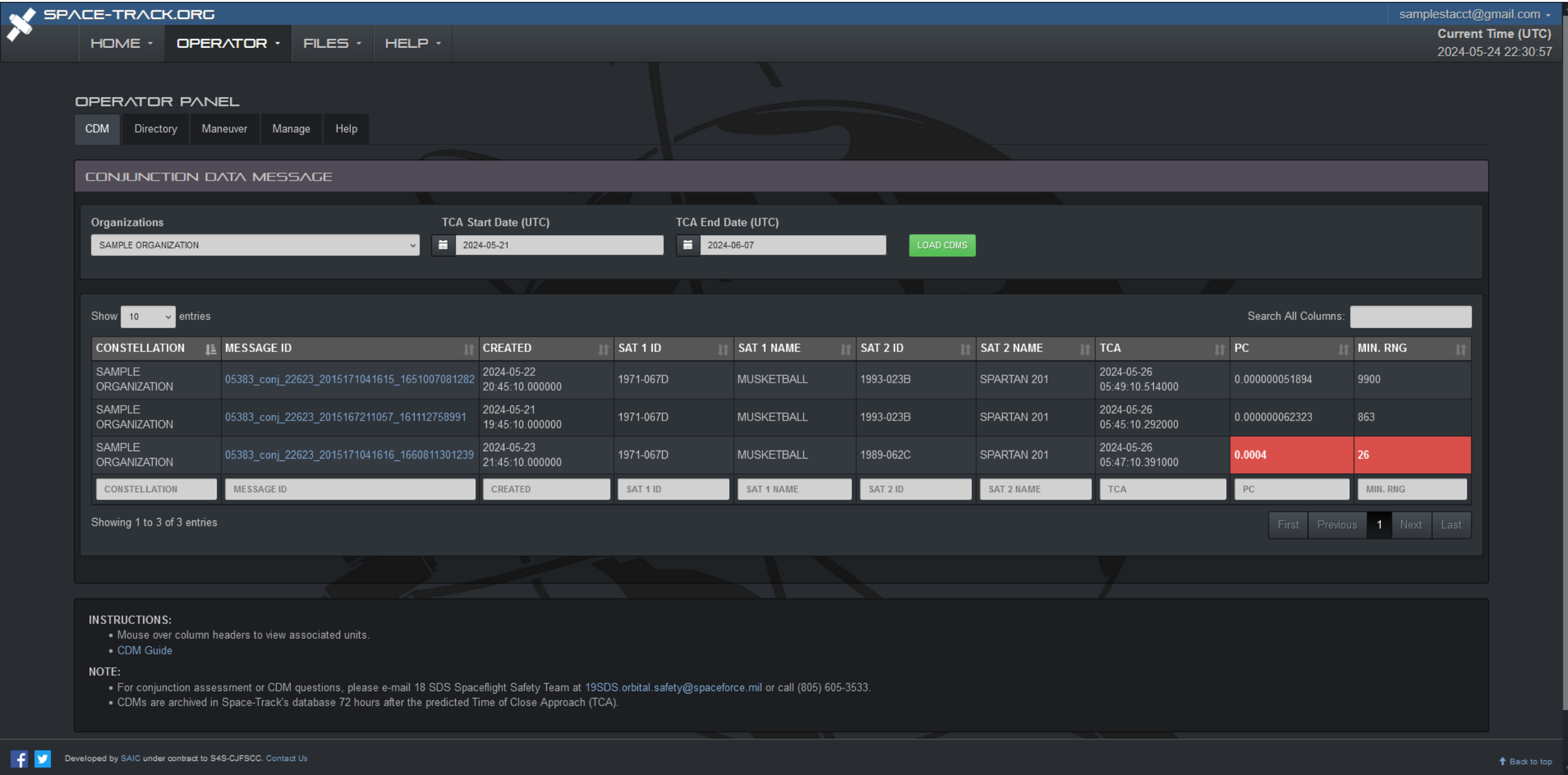
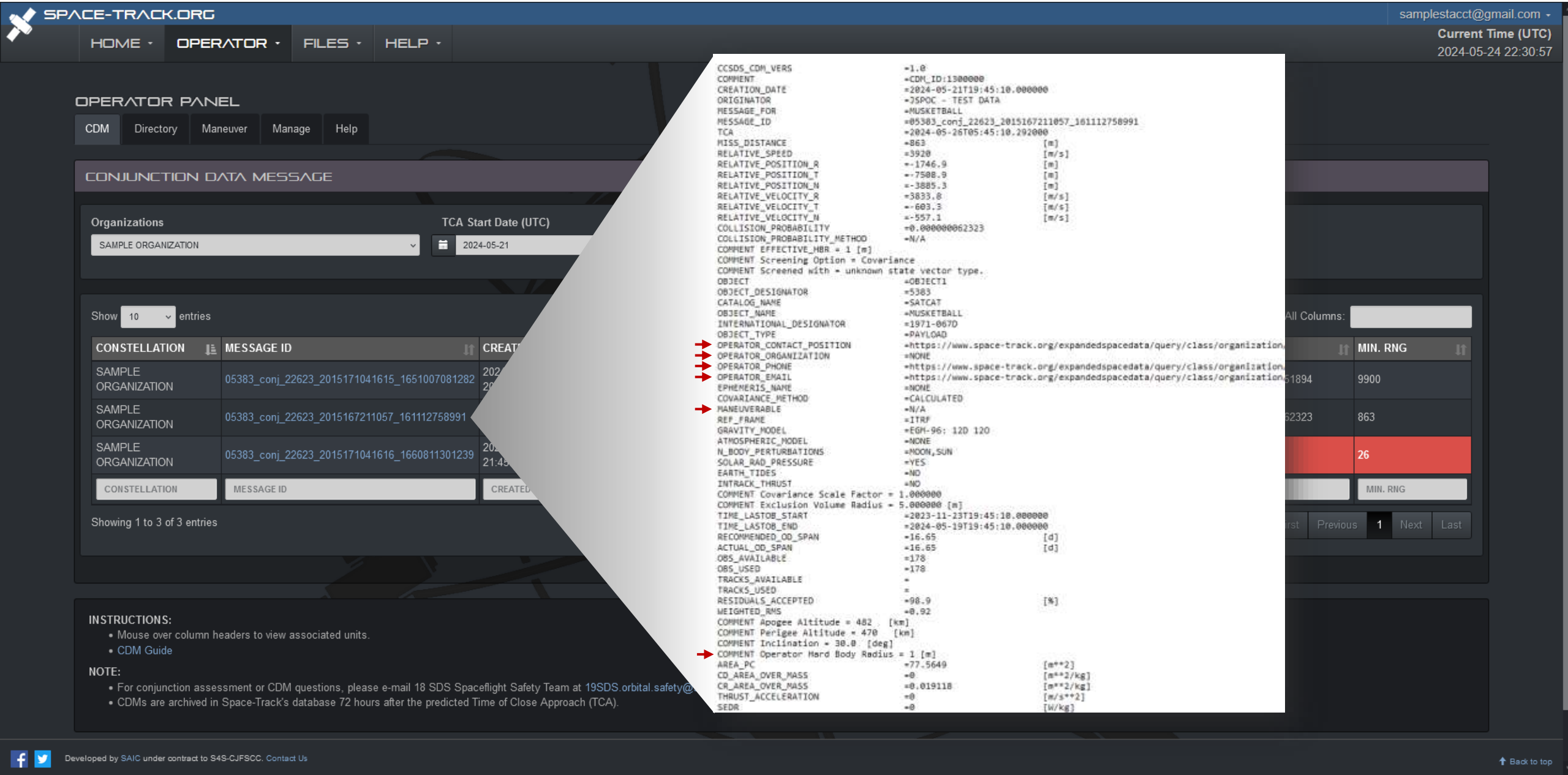
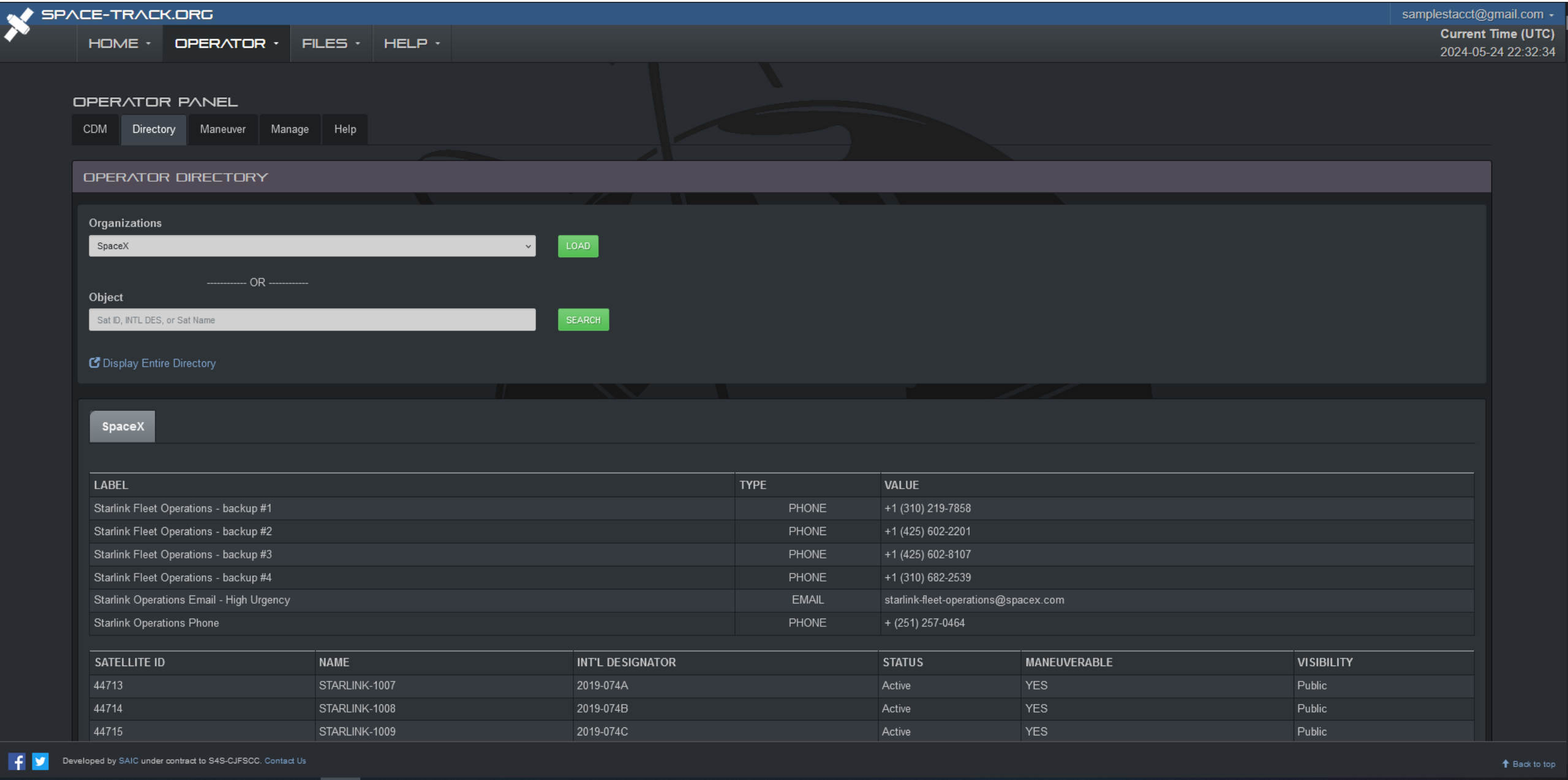
Operator Panel: CDM



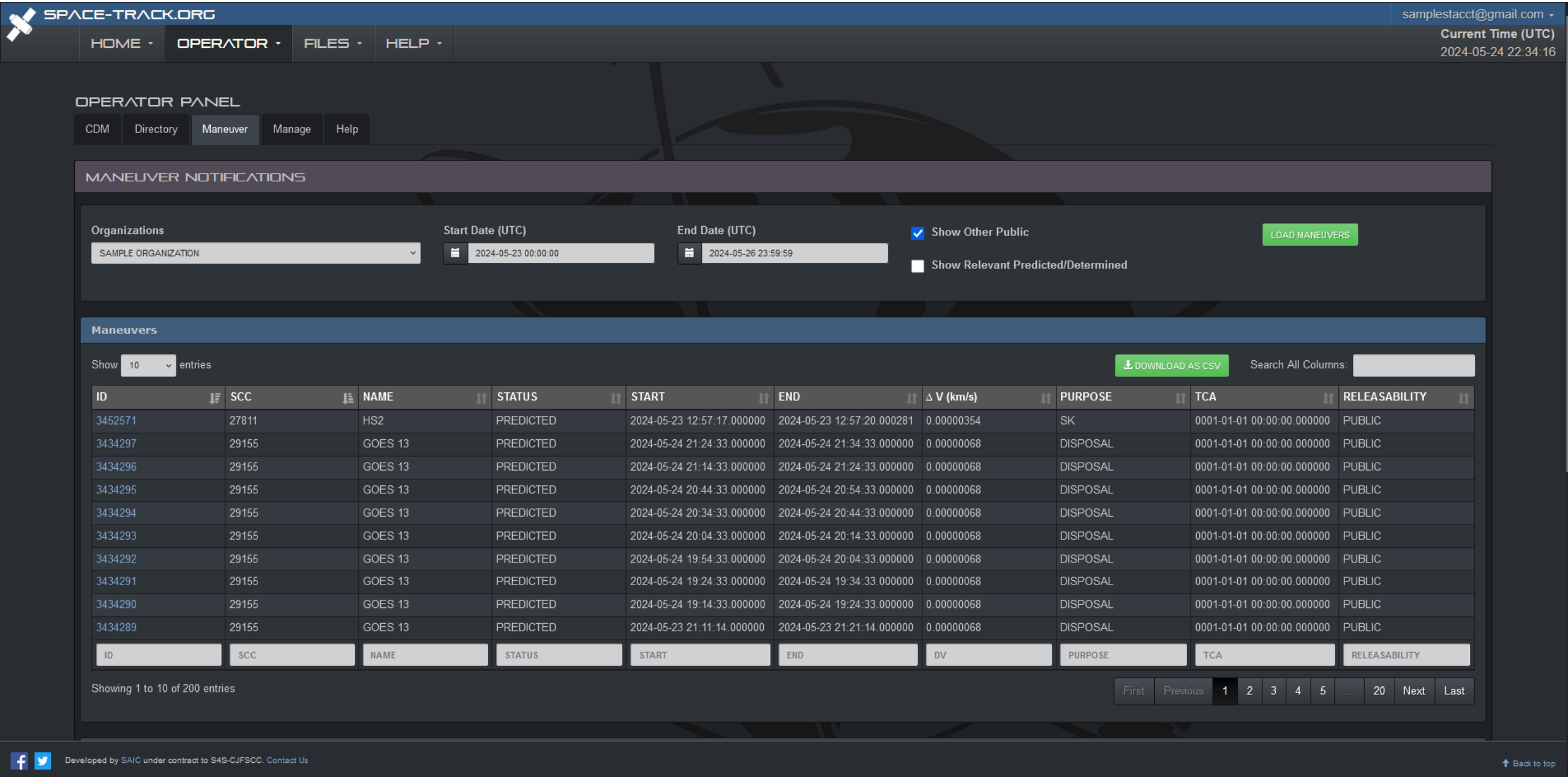
Operator Panel: CDM



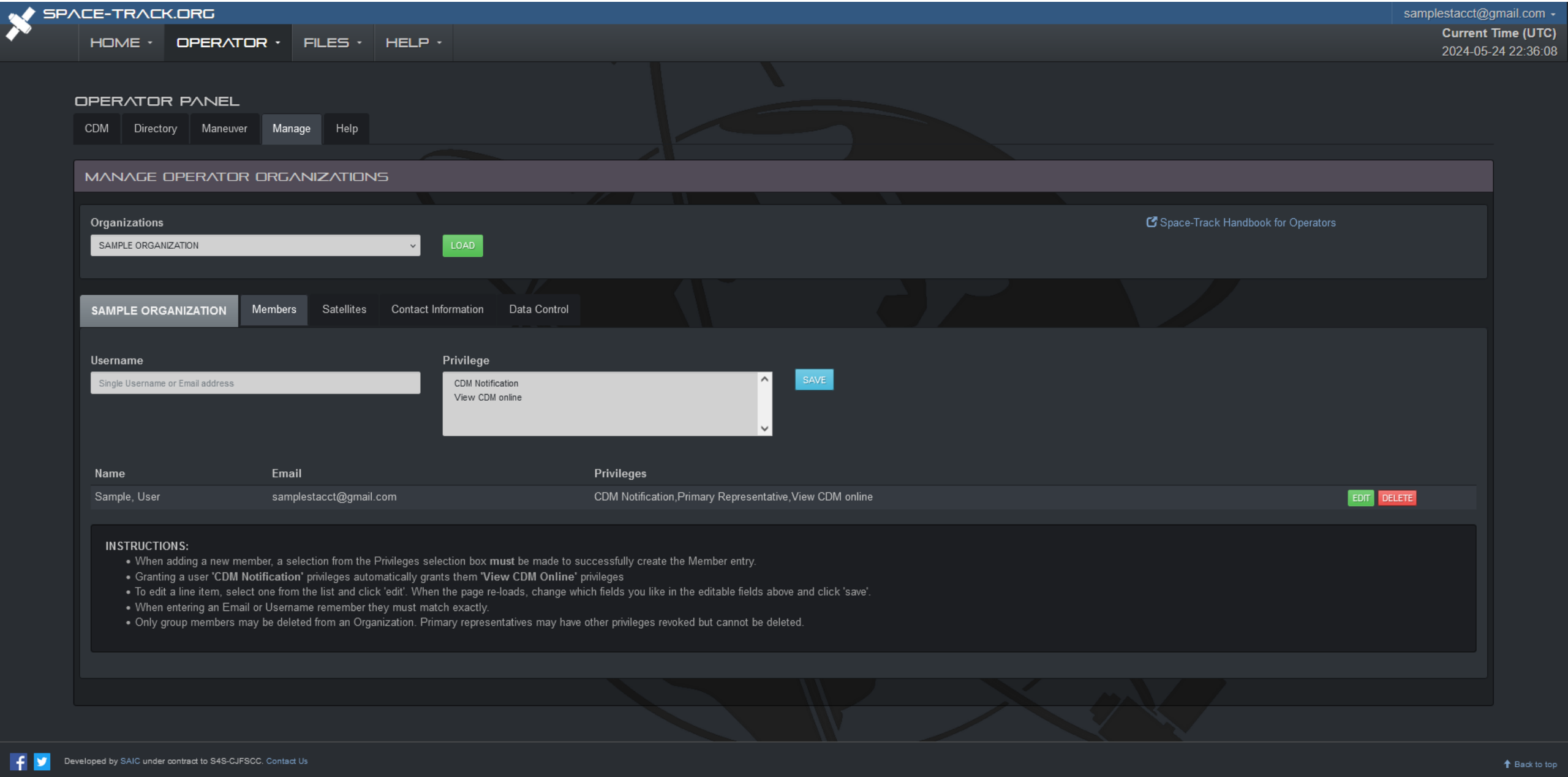
Operator Panel: Directory



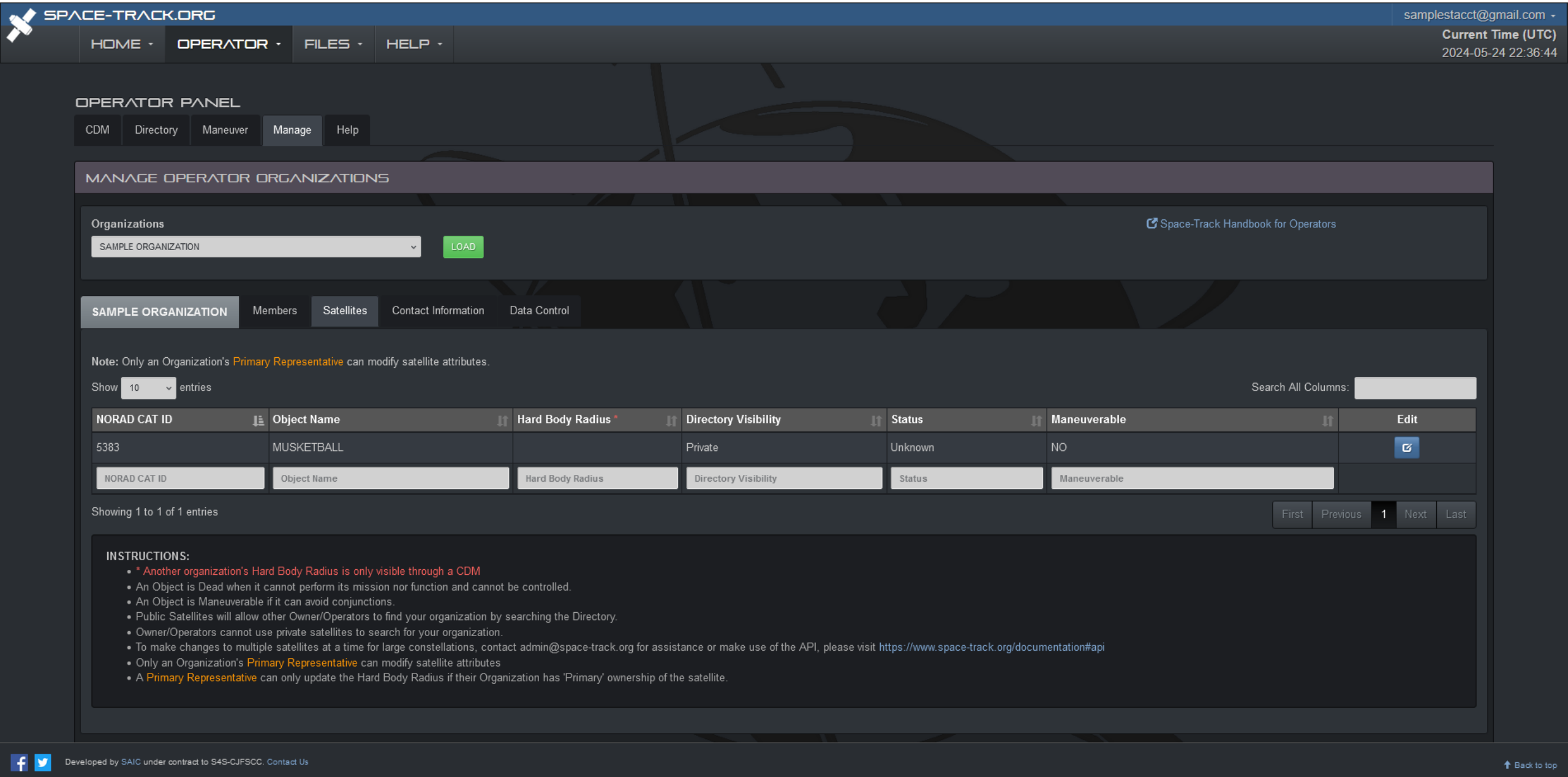
Operator Panel: Maneuvers



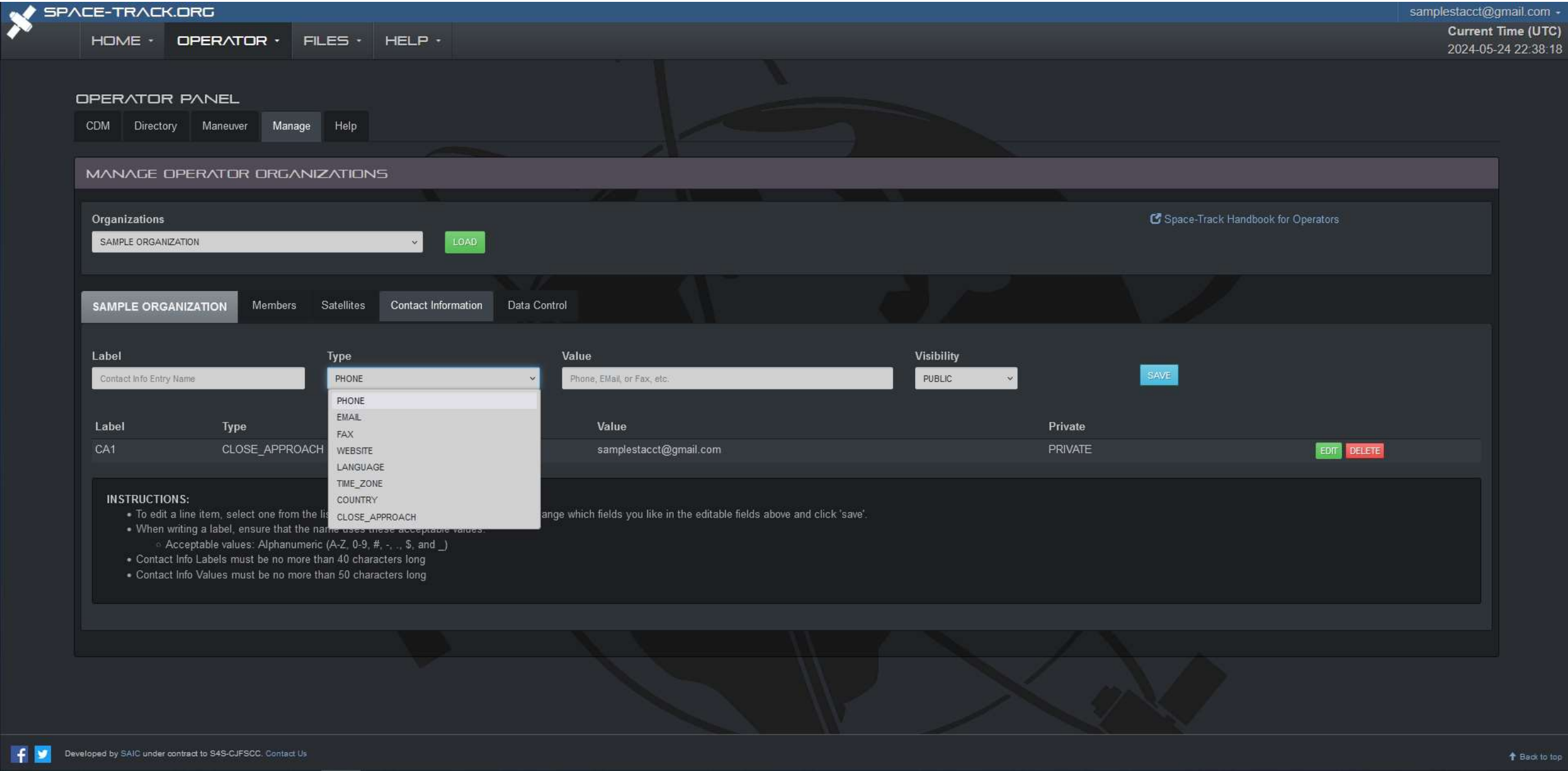
Operator Panel: Manage - Members



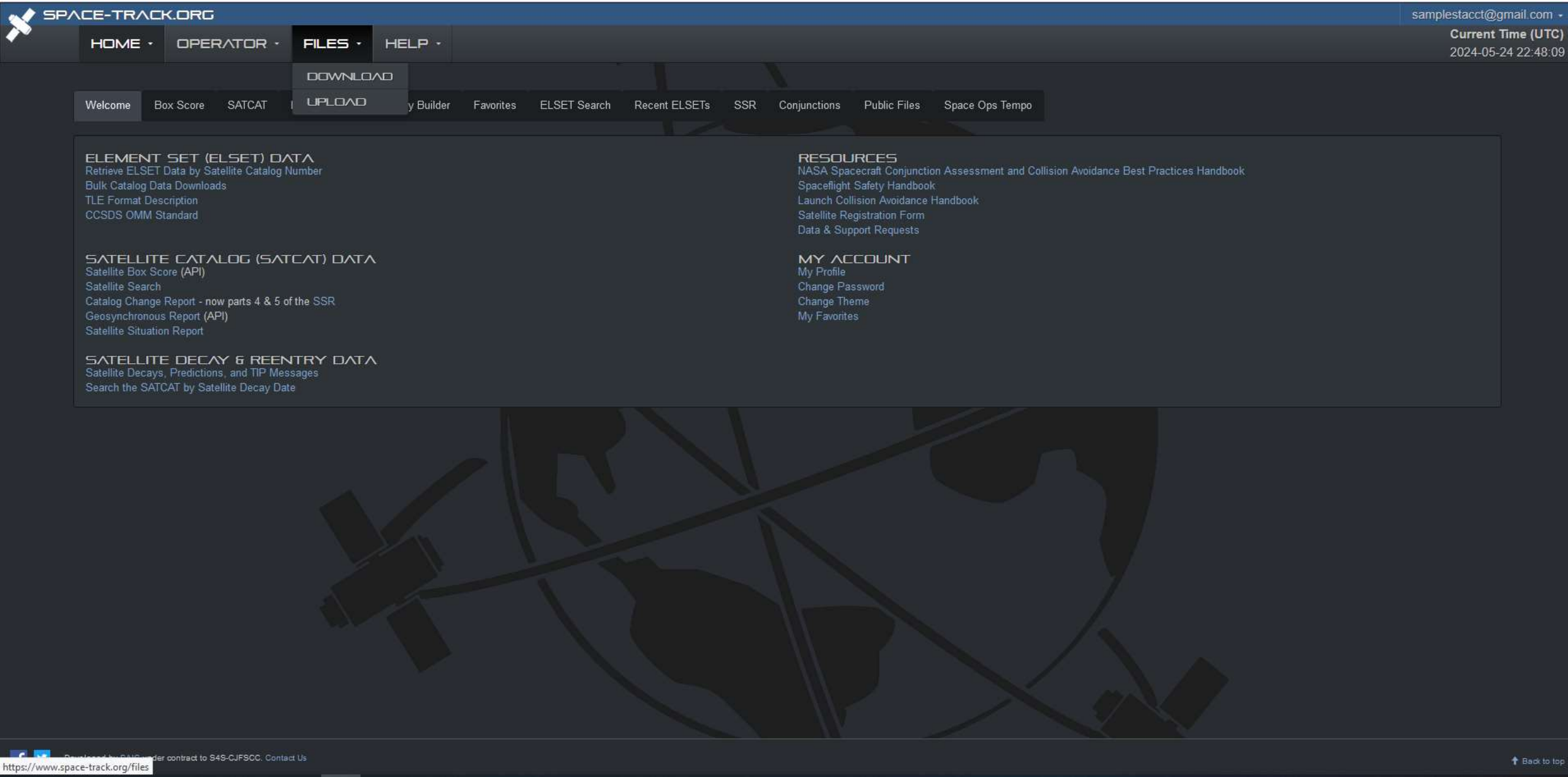
Operator Panel: Manage - Satellites



Operator Panel: Manage – Contact Information



Files Panel


SPACE-TRACK.ORG
samplestacct@gmail.com
HOME
OPERATOR
FILES
HELP
Current Time (UTC)
2024-05-24 22:48:09
DOWNLOAD
UPLOAD
Welcome
Box Score
SATCAT
Favorites
ELSET Search
Recent ELSETs
SSR
Conjunctions
Public Files
Space Ops Tempo
ELEMENT SET (ELSET) DATA
Retrieve ELSET Data by Satellite Catalog Number
Bulk Catalog Data Downloads
TLE Format Description
CCSDS OMM Standard
SATELLITE CATALOG (SATCAT) DATA
Satellite Box Score (API)
Satellite Search
Catalog Change Report - now parts 4 & 5 of the SSR
Geosynchronous Report (API)
Satellite Situation Report
SATELLITE DECAY & REENTRY DATA
Satellite Decays, Predictions, and TIP Messages
Search the SATCAT by Satellite Decay Date
RESOURCES
NASA Spacecraft Conjunction Assessment and Collision Avoidance Best Practices Handbook
Spaceflight Safety Handbook
Launch Collision Avoidance Handbook
Satellite Registration Form
Data & Support Requests
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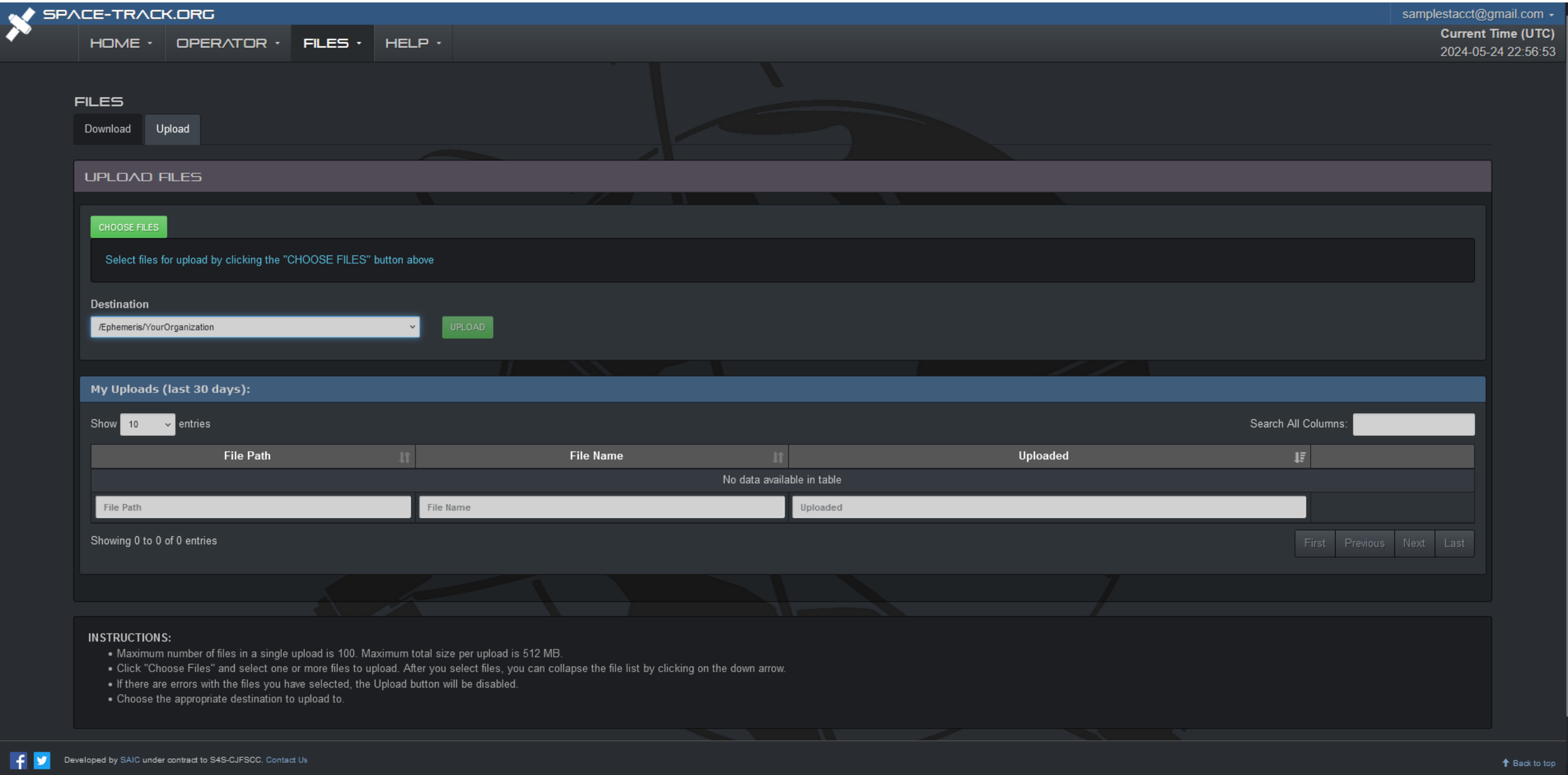

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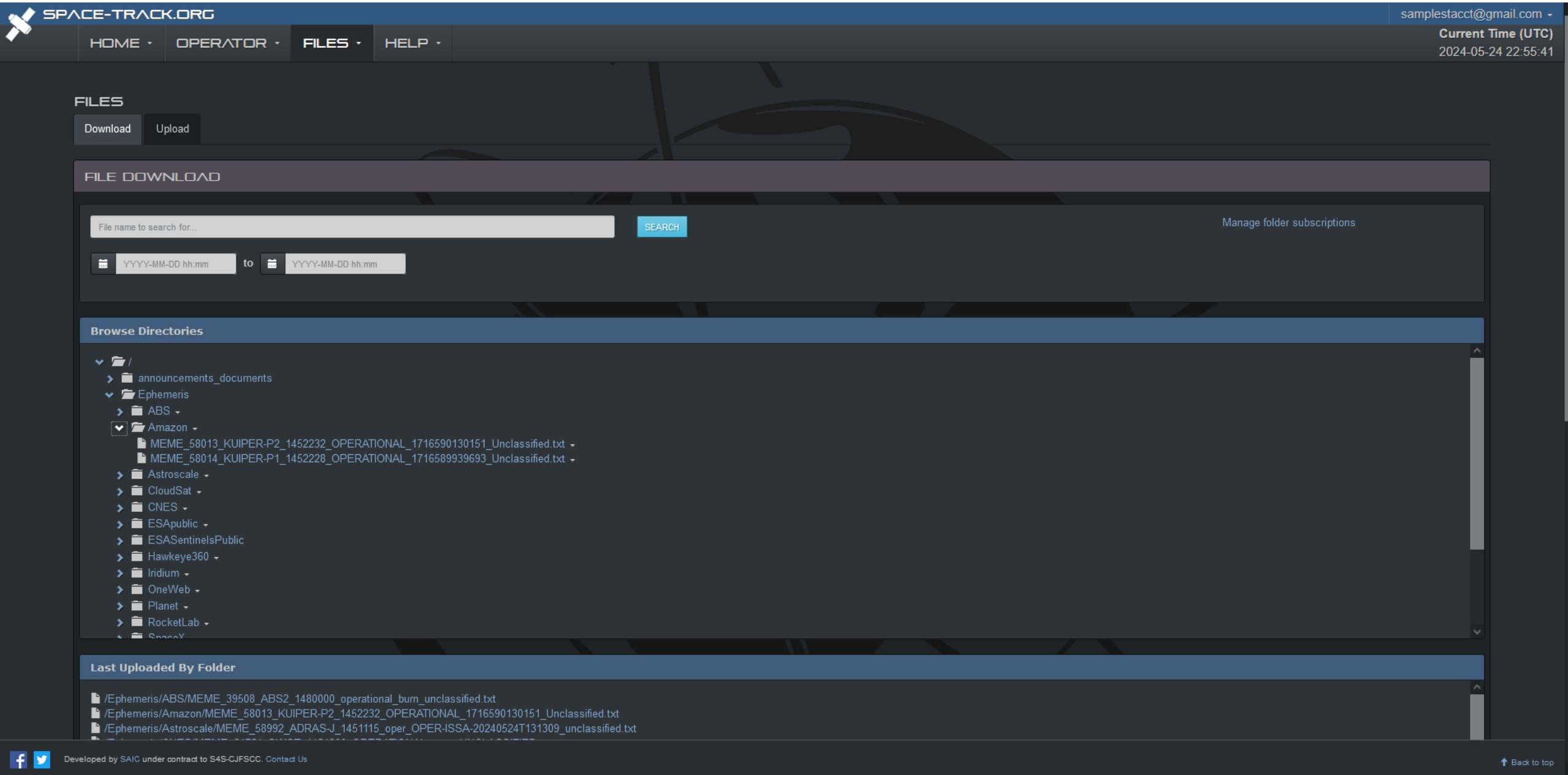

Questions?

Contact us at:

SPACEOffice@space-track.org