

CASE FILE 11 / 237UAP00037

237UAP00037

High-altitude public UAP report; score 70

HIGH-VALUE UNRESOLVED

REPORT NO.	UAP-OM-11-237UAP00037	DISPOSITION	HIGH-VALUE UNRESOLVED
PRIMARY CASE	237UAP00037	GENERATED	2026-05-20 18:32 UTC
REPORT TIME	2019-02-10T07:55:00+00:00	OBSERVER	42.78333, -121.70000
SOURCE CASE IDS	237UAP00037		

Abstract

This case file evaluates a reported UAP sighting against the available orbital-object layer. No compact same-launch group fully identifies the file by itself. The final disposition is assigned under a normal-object favored standard, where ordinary aerospace/orbital explanations are preferred when they reasonably fit the report.

This is a standalone independent analysis prepared from public-source records and public orbital datasets. It is not an official government determination, classification marking, or agency-authored report.

1. Executive Summary

237UAP00037 was screened against historical Starlink orbital elements at the extracted time and observer coordinate. The screen did not produce enough mundane evidence to close the case under the normal-object favored standard. Hard features retained for follow-up: radar/primary evidence.

1.1 Key Findings

- Source score 70 based on: radar/primary-return language, NORAD/AMOC/EADS/CONR check, high-altitude report, UAP/UFO language.
- Report time used: 2019-02-10T07:55:00+00:00.
- External object layer used: Starlink.
- Disposition standard: UNRESOLVED requires case-specific causal fit. Satellite density above the horizon is context only and cannot by itself resolve the report.
- Remaining hard features: radar/primary evidence.
- Objects above horizon: 0; at/above 10 deg: 0.
- No compact same-launch/designator group survived the report threshold.
- No explicit Starlink/balloon wording was found in the source excerpt used for ranking.

1.2 Bottom Line

HIGH-VALUE UNRESOLVED: Hard report features remain after the normal-object screens, such as primary/radar evidence, multiple witnesses, footage references, or motion language that still conflicts with the available object layer.

2. Source Control

The source-control table identifies the public report records reviewed for this case and lists public access links where available. The table is included so this PDF remains interpretable when distributed by itself.

CASE ID	REPORT DATE FIELD	FACILITY / TITLE	TEXT EXTRACT	PUBLIC PDF LINK
237UAP00037	07:55 02/10/2019 Callsign: ASA428 Origin: LAX	ZSE Operator: ASA Operator Type:	text extract present	237UAP00037.pdf

3. Original Report Evidence

PRIMARY EXCERPT USED FOR MATCHING	PIC reported a UFO while S bound at FL350. UFO had a white flashing light, slow moving, estimated at FL400 - FL500 NE bound. Lat/Long: 42:47N 121:42W. ZSE CPC observed a primary target in the vicinity showing 20 knots. WADS advised.
REPORT TIME USED	2019-02-10T07:55:00+00:00
OBSERVER COORDINATE USED	42.78333, -121.70000
OBSERVER SOURCE BASIS	(public text extract 237UAP00037)

4. Methodology

1. **Spacetime extraction.** The report time and observer coordinate were extracted from the public text report and normalized to UTC. Aviation fixes/radials were resolved during earlier preprocessing where applicable.
2. **External object dataset.** The object layer used historical Space-Track/TLE-derived Starlink element rows. The analytic mode for this case is historical Starlink element propagation and same-launch/designator sky grouping.
3. **Propagation.** Orbital elements were propagated to the report minute and observer location. For launch-object checks, samples around the report minute were retained. For Starlink group checks, objects above the horizon were clustered by sky position and filtered for same-launch groupings.
4. **Comparison.** The output was compared against the report's count of lights, direction cue, motion language, altitude/radar language, and whether the file itself already suggested a satellite explanation.
5. **Causation standard.** Mere object presence above the horizon is treated as background context only. A normal-object disposition requires a case-specific causal fit, such as a named launch object, a compact same-launch trajectory group, or source language that directly supports that object class.
6. **Disposition assignment.** *Identified* means a specific normal object fits the report spacetime and the hard reported features do not materially conflict. *Normal-object favored* means a case-specific ordinary aerospace/orbital candidate exists, but it is not a full named identification. *Insufficient* means the file is too thin to carry high anomaly value. *High-value unresolved* is used when radar, video, rapid maneuver, or multi-witness features remain after reasonable normal-object checks.

5. External Object Evidence

5.1 Search Volume and Density

This table is a screening layer only. Objects above the horizon show background opportunity; they do not establish causation unless a specific object or compact trajectory group matches the reported behavior.

STARLINK CATALOG IDS CONSIDERED	0	HISTORICAL ELEMENT ROWS	0
ABOVE HORIZON AT REPORT MINUTE	0	AT/ABOVE 10 DEG	0
LARGEST SAME-SKY CLUSTER	0		

No compact same-launch/designator group survived the report threshold. In this condition, satellite density remains context only and cannot by itself resolve a report with hard features.

5.2 Same-Launch / Same-Designator Candidate Groups

#	LAUNCH DATE	COUNT	AZIMUTH SPAN	ELEVATION SPAN	MOTION LABELS	MEMBERS
No same-launch group identified.						

5.3 Primary Group Members

OBJECT	NORAD	LAUNCH	AZ	EL	RANGE KM	APPARENT MOTION	ELEMENT AGE H
No members available.							

5.4 Bright-Sky Context: Top Starlink Objects by Elevation

OBJECT	AZ	EL	RANGE KM	APPARENT MOTION	LAUNCH DATE
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5.5 Largest Sky Clusters

#	COUNT	AZIMUTH SPAN	ELEVATION SPAN	MOTION LABELS
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5.6 Space-Track SATCAT Enrichment

Space-Track SATCAT metadata was pulled as a cached subset for NORAD catalog IDs appearing in this packet's evidence tables. This section adds owner/type/status context to the propagated object candidates.

PACKET SATCAT SUBSET ROWS	5370	FETCHED	2026-05-19T01:19:50+00:00
THIS CASE NORAD IDS CHECKED	0	SATCAT ROWS MATCHED	0
TOP OWNERS	no matched SATCAT rows		
OBJECT TYPES	no matched SATCAT rows		

5.7 Space-Track Metadata for Top Propagated Objects

NORAD	OBJECT NAME	TYPE	OWNER	LAUNCH DATE	DECAY DATE
No Space-Track SATCAT rows matched the top propagated objects for this case.					

5.9 NASA / NOAA / ADS-B Expansion Layer

This source layer adds free NASA context that was previously missing from most packet cases. It is contextual evidence; it does not replace aircraft, satellite, balloon, or radar causation tests.

HOUR UTC	2019021007
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CLOUD AMOUNT	94.08%
PRECIPITATION	1.84 mm/hr
10 M WIND	1.6 m/s
TEMPERATURE	-12.14 C
RELATIVE HUMIDITY	100.0%
DONKI +/-1 DAY	CME: unavailable; FLR: unavailable; GST: unavailable; HSS: unavailable; IPS: unavailable; MPC: unavailable; RBE: unavailable; SEP: unavailable; WSAEnIISimulations: unavailable

5.10 Horizons Sky Geometry Context

OBJECT	AZ	EL	APP MAG
Sun	346.89	-61.08	-26.77
Moon	290.64	-17.14	-8.67
Venus	69.16	-50.82	-4.21
Mars	293.14	-8.19	0.94
Jupiter	86.64	-37.66	-1.92
Saturn	59.68	-57.63	0.59

- Sun elevation was -61.1 deg, so this was a dark-sky/nighttime sighting.
- Moon was below horizon at elevation -17.1 deg.
- No checked bright planets were above the horizon at the primary coordinate/time.
- NASA POWER cloud amount for the hour was 94.08%, with precipitation 1.84 mm/hr.

5.11 Free Source Availability and Remaining Work

LAYER	STATUS	CASE-SPECIFIC NOTE
ADSB.LOL HISTORICAL RELEASE LISTING	not yet exhausted	v2019-02-10-planes-readsb-prod-0, v2019-02-10-planes-readsb-prod-1, v2019-02-10-planes-readsb-staging-0, v2019-02-10-planes-readsb-mlatonly-0
ADSB TRACKS DOWNLOADED	not yet exhausted	Requires targeted extraction from large daily history archives before claiming aircraft exhaustion.
NOAA GOES IMAGERY	not yet exhausted	Needed for cloud/lightning visual context.
NOAA GOES ABI/GLM MANIFEST	screened/present	Public S3 object availability for the report hour.
NOAA NEXRAD WEATHER RADAR	not yet exhausted	Weather radar only; not ATC radar.
NOAA IGRA RADIOSONDE	screened/present	Needed for balloon drift plausibility.
ASOS/METAR WEATHER OBSERVATIONS	screened/present	Nearest station surface observations around report time.

- ADSB.lol historical: extract aircraft traces from no public ADSB.lol annual repo found for 2019-02-10, then filter +/-60 min and 250 nmi around 42.7833,-121.7000.
- NASA POWER/Horizons/DONKI: batch context for 237UAP00037 at 2019-02-10T07:55:00+00:00.
- NOAA GOES: pull nearest ABI/GLM products for the UTC hour and render cloud/lightning map.
- NOAA NEXRAD: select nearest radar stations and render Level-II/III weather radar sweep around event time.
- NOAA IGRA: find nearest radiosonde station launches bracketing the event and model wind drift for balloon-like descriptions.
- Space-Track gp_history/decay: fetch exact historical element rows and decay/reentry status for top candidate NORAD IDs.

5.12 Weather, Imagery, and Balloon Query Plan

This plan identifies the concrete free sources needed for the next case-specific weather and balloon checks. These are not treated as completed exclusions until the data are downloaded and plotted.

GOES SATELLITE	GOES18
GOES ABI PREFIX	https://noaa-goes18.s3.amazonaws.com/ABI-L2-CMIPF/2019/041/07/

GOES GLM LIGHTNING PREFIX	https://noaa-goes18.s3.amazonaws.com/GLM-L2-LCFA/2019/041/07/
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5.13 Nearest Weather-Airport Candidates

STATION	NAME	DISTANCE KM	COORDINATE
KLMT	Crater Lake-Klamath Regional Airport	69.80	42.16, -121.73
KMFR	Rogue Valley International-Medford Airport	106.30	42.37, -122.87
KRDM	Roberts Field	169.40	44.25, -121.15
KEUG	Eugene Airport	192.70	44.12, -123.21
KOTH	Southwest Oregon Regional Airport	218.40	43.42, -124.25

- KLMT: [IEM ASOS/METAR daily CSV query](#)
- KMFR: [IEM ASOS/METAR daily CSV query](#)
- KRDM: [IEM ASOS/METAR daily CSV query](#)

5.14 Nearest Radiosonde Stations

STATION	NAME	DISTANCE KM	COORDINATE
USM00072597	MEDFORD/MEDFORD-JACKSON COUNTY	106.80	42.38, -122.88
USM00072694	SALEM/MCNARY; OR.	258.60	44.91, -123.01
USM00072489	RENO; NV.	391.40	39.57, -119.80
USM00072681	BOISE/MUN.; ID.	453.40	43.57, -116.21
USM00072582	ELKO; NV.	537.90	40.86, -115.74

5.15 ASOS/METAR Surface Weather Observations

surface visibility ranged 1.75-10 statute miles; precipitation was reported in at least one observation; low/broken/overcast cloud layers were present in at least one observation. Surface ASOS/METAR observations describe airport-level weather and visibility; they do not by themselves prove conditions at the sighting altitude or line of sight.

STATION	DISTANCE KM	NEAREST OBS UTC	VIS SM	SKY	WIND DEG/KT	METAR
KLMT	69.80	2019-02-10T07:53:00 +00:00	4.00	SCT00100, SCT07000, M, M	0.00 / 0.00	KLMT 100753Z AUTO 00000KT 4SM BR SCT001 SCT070 M16/M18 A2957 RMK AO2 SLP049 T11611178 400001161 \$
KMFR	106.30	2019-02-10T07:53:00 +00:00	10.00	OVC07000, M, M, M	0.00 / 0.00	KMFR 100753Z AUTO 00000KT 10SM OVC070 M01/ M04 A2967 RMK AO2 SLP055 T10111039 400391017
KRDM	169.40	2019-02-10T07:56:00 +00:00	2.50	OVC03200, M, M, M	330.00 / 9.00	KRDM 100756Z AUTO 33009KT 2 1/2SM -SN BR OVC032 M09/M12 A2965 RMK AO2 SLP076 P0001 T10941117 400171094

5.16 NOAA IGRA Radiosonde Wind Profile

Nearest sounding implies mean 0-12 km wind drift toward 159.9 deg at 16.34 m/s; a passive balloon could drift about 117.7 km in two hours under this crude layer-average model. Radiosonde winds are sparse station soundings; balloon drift remains approximate without launch time, ascent rate, object altitude, and exact line-of-sight bearing.

STATION	NAME	DISTANCE KM	SOUNDING UTC	MEAN DRIFT BEARING	MEAN SPEED M/S	2H DRIFT KM	MAX WIND
USM00072597	MEDFORD/ MEDFORD- JACKSON COUNTY	106.80	2019-02-10T12:00:00+00:00	159.90	16.34	117.70	31.50 at 6989.00 m

5.17 NOAA GOES ABI/GLM Public File Manifest

GOES public S3 objects are listed for the report hour where available. This is an availability manifest, not yet a rendered satellite image.

SATELLITE	GOES18	BUCKET	noaa-goes18
ABI SAMPLE FILES	0	GLM SAMPLE FILES	0

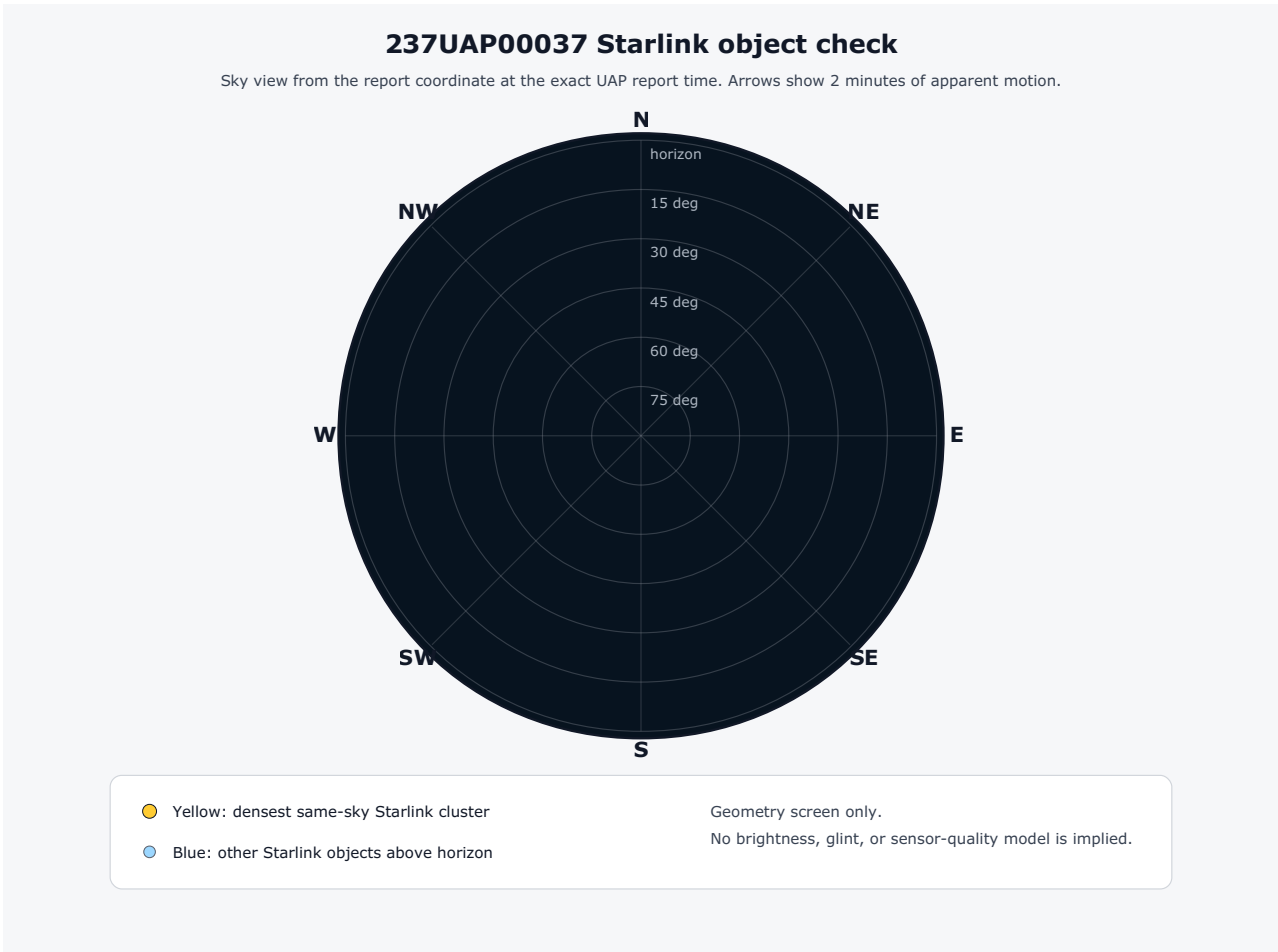
ABI sample objects:

- No ABI sample object listed for this hour/prefix.

GLM lightning sample objects:

- No GLM sample object listed for this hour/prefix.

6. Annotated Evidence Figure



Generated figure copied from the local evidence-plot output. It is included as an analytic visualization, not as original sensor imagery.

7. Analytic Comparison

CRITERION	REPORT EVIDENCE	ANALYTIC TREATMENT
TIME CONSTRAINT	2019-02-10T07:55:00+00:00	Directly used in propagation; this is a hard filter, not descriptive context.
LOCATION CONSTRAINT	42.78333, -121.70000	Directly used as observer point for azimuth/elevation/range computation.
COUNT / PATTERN	not explicit	No compact same-launch count match; retained for unresolved report features.
MOTION LANGUAGE	moving	Reported motion remains only partly explained; this is a principal reason for high-value unresolved status.
RADAR / OFFICIAL CHECK	not specified	Radar or hard maneuvering language is treated as a conflict/collection gap, not hand-waved away.
ANALYTIC DISPOSITION	unresolved	237UAP00037 was screened against historical Starlink orbital elements at the extracted time and observer coordinate. The screen did not produce enough mundane evidence to close the case under the normal-object favored standard. Hard features retained for follow-up: radar/primary evidence.

8. Caveats, Limitations, and Collection Gaps

- No raw cockpit video, ATC replay, radar plot, or witness interview transcript was reviewed unless explicitly stated in the public source text.
- Aviation-derived coordinates can represent a nearby fix/radial or report point, not necessarily the actual line-of-sight intercept point.
- Starlink visibility depends on illumination, observer altitude, atmospheric conditions, and apparent brightness; this analysis tests geometry, not photometry. No brightness model is used unless explicitly stated elsewhere in the case file.
- TLE propagation is appropriate for screening and reconstruction but is not a substitute for authoritative operational ephemerides.
- When many satellites are above the horizon, generic presence is weak evidence and is not treated as causation. The report emphasizes named launch-object checks or compact same-launch trajectory groups.
- This case is retained as high-value unresolved because the hardest reported behavior is not resolved by the current normal-object layers.

Appendix A. Public Report Text Extracts

237UAP00037

SKYWATCH INCIDENT REPORT

PRIMARY CODE: OTHER	Callsign: ASA428	Origin: LAX
Date: 07:55 02/10/2019	Aircraft: B739, BOEING, 737-900	Destination:
Status: Closed	Tail Number:	New Destination: SEA
POD: DEN	Operator: ASA	Operator Type:
Reporting Facility: ZSE		Paged: NO

REMARKS

PIC reported a UFO while S bound at FL350. UFO had a white flashing light, slow moving, estimated at FL400 - FL500 NE bound. Lat/Long: 42:47N 121:42W. ZSE CPC observed a primary target in the vicinity showing 20 knots. WADS advised.

Appendix B. Computational Evidence Digest

This appendix preserves the principal computed values used in the assessment, shortened to the fields most relevant to audit and review.

```
{
  "report_time_utc": "2019-02-10T07:55:00+00:00",
  "source_excerpt": "PIC reported a UFO while S bound at FL350. UFO had a white flashing light, slow moving, estimated at FL400
- FL500 NE bound. Lat/Long: 42:47N 121:42W. ZSE CPC observed a primary target in the vicinity showing 20 knots. WADS advised.",
  "historical_starlink_element_rows": 0,
  "observer": {
    "lat": 42.78333333333333,
    "lon": -121.7,
    "source": "(public text extract 237UAP00037)"
  },
  "case_id": "237UAP00037",
  "starlink_above_horizon_at_report_time": 0,
  "starlink_catalog_ids_considered": 0,
  "largest_same-sky_cluster_count": 0,
  "starlink_at_or_above_10_deg": 0
}
```

Appendix C. Source Exhaustion Checklist

This checklist records which source layers were actually applied to this individual report. It separates checked evidence from unexhausted collection gaps so the disposition is auditable when the PDF is read alone.

SOURCE LAYER	STATUS	CASE-SPECIFIC NOTE
NARA PUBLIC UAP/FAA REPORT	reviewed	Source IDs: 237UAP00037
TIME AND OBSERVER COORDINATE	extracted	2019-02-10T07:55:00+00:00 at 42.78333, -121.70000
ORBITAL OBJECT PROPAGATION	screened	Starlink
SPACE-TRACK SATCAT METADATA	screened	0 NORAD IDs checked; 0 matched in local SATCAT subset
LAUNCH-OBJECT/SUPGP LAYER	not applicable	not a launch-object case
NASA/JPL KNOWN SMALL-BODY LAYER	not selected	CAD/Horizons secondary screen included when this case had NEO-relevant timing/geometry
NASA POWER/HORIZONS/DONKI CONTEXT	screened	Hourly weather, sky geometry, and space-weather context where local JSON is present
AIRCRAFT/ADS-B LAYER	not exhausted	ADSB.lol historical release pattern is recorded separately; actual aircraft exhaustion requires targeted trace extraction
NOAA GOES IMAGERY LAYER	not exhausted	Cloud/lightning imagery layer for the report hour
NOAA GOES ABI/GLM MANIFEST	screened	Public S3 object listing for the report hour
NOAA/NEXRAD WEATHER RADAR LAYER	not exhausted	Weather radar only; not ATC/primary radar
NOAA IGRA RADIOSONDE LAYER	screened	Balloon drift plausibility layer
ASOS/METAR SURFACE WEATHER	screened	Nearest station visibility, cloud, wind, precipitation, and METAR observations
WEATHER/BALLOON SOURCE PLAN	planned	Nearest weather-airport, GOES, and radiosonde queries are listed where local plan JSON is present
FINAL ANALYTIC DISPOSITION	high-value unresolved	Presence-only satellite density is context only; a stronger case-specific fit is required for normal-object disposition

References and Source Links

1. National Archives and Records Administration. *Records Related to Unidentified Flying Objects (UFOs) and Unidentified Anomalous Phenomena (UAPs) at the National Archives*. <https://www.archives.gov/research/topics/uaps>
2. National Archives and Records Administration. *Record Group 615: Unidentified Anomalous Phenomena Records Collection*. <https://www.archives.gov/research/topics/uaps/rg-615>
3. National Archives and Records Administration. *Bulk Downloads for Records Related to Unidentified Anomalous Phenomena (UAPs)*. <https://www.archives.gov/research/catalog/catalog-bulk-downloads/uap-bulk-download>
4. National Archives Catalog. *Records from the Federal Aviation Administration Relating to Unidentified Anomalous Phenomena, National Archives Identifier 493468575*. <https://catalog.archives.gov/id/493468575>
5. National Archives direct digital object. *237UAP00037.pdf, FAA UAP report record copied from RG 615 bulk digital objects*. <https://s3.dualstack.us-east-1.amazonaws.com/NARAprdstorage/lz/electronic-records/rg-615/493468575/237UAP00037.pdf>
6. Hugging Face dataset. *oxzoid/space-track-tle-history: historical TLE archive used for Starlink screening*. <https://huggingface.co/datasets/oxzoid/space-track-tle-history>
7. Space-Track.org. *Public source for the underlying U.S. Space Surveillance Network TLE distribution referenced by the historical TLE archive*. <https://www.space-track.org/>
8. Space-Track.org. *API documentation for SATCAT and catalog metadata classes used for local enrichment*. <https://www.space-track.org/documentation#/api>
9. NASA POWER. *Hourly point API documentation for meteorological context*. <https://power.larc.nasa.gov/docs/services/api/temporal/hourly/>
10. NASA/JPL Solar System Dynamics. *Horizons API documentation for observer geometry and apparent magnitude queries*. <https://ssd-api.jpl.nasa.gov/doc/horizons.html>
11. NASA. *DONKI space weather API documentation*. <https://api.nasa.gov/>
12. ADSB.lol. *Interactive API documentation and OpenAPI definition*. <https://api.adsb.lol/docs>
13. ADSB.lol. *Historical open-data release documentation*. <https://www.adsb.lol/docs/open-data/historical/>
14. OpenSky Network. *REST API documentation*. <https://openskynetwork.github.io/opensky-api/rest.html>
15. OpenSky Network. *Historical data via Trino documentation*. <https://openskynetwork.github.io/opensky-api/trino.html>
16. NASA GIBS. *Global Imagery Browse Services API documentation*. <https://nasa-gibs.github.io/gibs-api-docs/>
17. NASA Earthdata. *Common Metadata Repository search API documentation*. <https://cmr.earthdata.nasa.gov/search/site/docs/search/api.html>
18. NOAA / AWS Open Data. *GOES public dataset registry*. <https://registry.opendata.aws/noaa-goes/>
19. NOAA / AWS Open Data. *NEXRAD public dataset registry*. <https://registry.opendata.aws/noaa-nexrad/>
20. NOAA NCEI. *Integrated Global Radiosonde Archive*. <https://www.ncei.noaa.gov/products/weather-balloon/integrated-global-radiosonde-archive>
21. Iowa Environmental Mesonet. *ASOS/AWOS/METAR data download service*. <https://mesonet.agron.iastate.edu/request/download.phtml>
22. Celestrak. *Spacetrack Report No. 3: Models for propagation of NORAD element sets*. <https://celestrak.org/NORAD/documentation/spacetrk.pdf>
23. Celestrak. *Supplemental GP element sets documentation and current endpoint index*. <https://celestrak.org/NORAD/elements/supplemental/>