

CASE FILE 37 / 237UAP00318

237UAP00318

Radar/correlation-focused public UAP report; score 58

NORMAL-OBJECT FAVORED

REPORT NO.	UAP-OM-37-237UAP00318	DISPOSITION	NORMAL-OBJECT FAVORED
PRIMARY CASE	237UAP00318	GENERATED	2026-05-20 18:32 UTC
REPORT TIME	2023-11-19T22:50:00+00:00	OBSERVER	28.80250, -83.30554
SOURCE CASE IDS	237UAP00318		

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

237UAP00318 is assessed as normal-object favored because the available public evidence gives a case-specific ordinary-object candidate: strong ADS-B aircraft candidate C-FPRP B738 c02966 at 14.9 km, azimuth 268.1 deg, elevation 35.41 deg, 2.52 min from report. Dense satellite presence alone is not treated as causation in this packet.

1.1 Key Findings

- Source score 58 based on: radar/primary-return language, multiple aircraft/facility witnesses, UAP/UFO language.
- Report time used: 2023-11-19T22:50:00+00:00.
- External object layer used: Starlink.
- Disposition standard: NORMAL-OBJECT requires case-specific causal fit. Satellite density above the horizon is context only and cannot by itself resolve the report.
- Case-specific ordinary-object evidence: strong ADS-B aircraft candidate C-FPRP B738 c02966 at 14.9 km, azimuth 268.1 deg, elevation 35.41 deg, 2.52 min from report.
- Non-causal context / rejection screens: substantial orbital-object sky background; context only, not causation; NASA/JPL known-small-body rejection screen present.
- Remaining hard features: multiple witnesses/facilities.
- Objects above horizon: 230; at/above 10 deg: 95.
- 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

NORMAL-OBJECT FAVORED: A case-specific ordinary-object candidate exists from source language, orbital geometry, launch-object context, or compact trajectory grouping. Dense ordinary sky traffic alone is not treated as causation.

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
237UAP00318	22:50 11/19/2023 Callsign: ASA516 Origin: SEA	ZJX Operator: ASA Operator Type: Commercial	text extract present	237UAP00318.pdf

3. Original Report Evidence

PRIMARY EXCERPT USED FOR MATCHING	Multiple aircraft reported an unidentified aerial phenomenon off in the vicinity of LAL306084, NW of TPA. The unknown phenomenon was described as an object the size of an aircraft at approximately FL250 to FL310. The UAP was not observed on ATC facility radar system. This incident was initially reported by 5 aircraft observing the same white object. No evasive maneuvers reported, no impact to operations.
REPORT TIME USED	2023-11-19T22:50:00+00:00
OBSERVER COORDINATE USED	28.80250, -83.30554
OBSERVER SOURCE BASIS	aviation_radial:LAL306084 (public text extract 237UAP00318)

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	5076	HISTORICAL ELEMENT ROWS	5052
ABOVE HORIZON AT REPORT MINUTE	230	AT/ABOVE 10 DEG	95
LARGEST SAME-SKY CLUSTER	53		

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
STARLINK-5829	146.53	72.07	591.16	westward, setting	2023-04-27
STARLINK-6036	265.45	67.6	618.69	eastward, setting	2023-05-31
STARLINK-3953	38.9	63.92	596.52	eastward, setting	2022-05-13
STARLINK-5977	247.01	61.96	645.04	eastward, setting	2023-05-31
STARLINK-2614	76.65	55.31	654.56	eastward, setting	2021-05-04
STARLINK-4499	169.75	48.71	698.43	westward, setting	2022-08-10
STARLINK-2274	250.0	47.05	724.5	eastward, level	2021-05-15
STARLINK-5195	286.18	46.07	725.48	westward, setting	2022-10-20
STARLINK-5069	222.23	43.91	795.72	westward, setting	2023-02-17
STARLINK-30427	316.1	42.67	791.52	eastward, rising	2023-09-16
STARLINK-2712	325.1	42.24	780.11	eastward, setting	2021-05-26
STARLINK-5786	112.82	39.22	837.19	westward, setting	2023-03-24

5.5 Largest Sky Clusters

#	COUNT	AZIMUTH SPAN	ELEVATION SPAN	MOTION LABELS
1	53	3.77-359.45 deg	10.02-42.67 deg	eastward, level, eastward, rising, eastward, setting, westward, rising, westward, setting
2	13	232.08-297.86 deg	10.2-32.72 deg	eastward, rising, westward, rising, westward, setting
3	9	132.37-177.06 deg	12.99-21.28 deg	

#	COUNT	AZIMUTH SPAN	ELEVATION SPAN	MOTION LABELS
				eastward, rising, eastward, setting, westward, rising, westward, setting
4	3	274.79-292.33 deg	35.82-46.07 deg	eastward, setting, westward, rising, westward, setting
5	3	212.42-222.23 deg	25.19-43.91 deg	westward, rising, westward, setting

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	30	SATCAT ROWS MATCHED	30
TOP OWNERS	US: 30		
OBJECT TYPES	PAYLOAD: 30		

5.7 Space-Track Metadata for Top Propagated Objects

NORAD	OBJECT NAME	TYPE	OWNER	LAUNCH DATE	DECAY DATE
56347	STARLINK-5829	PAYLOAD	US	2023-04-27	n/a
56800	STARLINK-6036	PAYLOAD	US	2023-05-31	n/a
52559	STARLINK-3953	PAYLOAD	US	2022-05-13	n/a
56791	STARLINK-5977	PAYLOAD	US	2023-05-31	n/a
48380	STARLINK-2614	PAYLOAD	US	2021-05-04	n/a
53402	STARLINK-4499	PAYLOAD	US	2022-08-10	n/a
48599	STARLINK-2274	PAYLOAD	US	2021-05-15	2024-05-14
54051	STARLINK-5195	PAYLOAD	US	2022-10-20	n/a
55640	STARLINK-5069	PAYLOAD	US	2023-02-17	n/a
57865	STARLINK-30427	PAYLOAD	US	2023-09-16	n/a
48674	STARLINK-2712	PAYLOAD	US	2021-05-26	n/a
56032	STARLINK-5786	PAYLOAD	US	2023-03-24	n/a

5.6 NASA/JPL Near-Earth Object Screen

This secondary object screen checks NASA/JPL close-approach objects near the report date and propagates their observer geometry through Horizons at the report coordinate. It is a known-object rejection layer, not a generic astronomy backdrop.

NASA/JPL CAD WINDOW	event date +/- 1 day, dist-max 0.2 au	COORDINATE USED	28.80, -83.31
CLOSE-APPROACH OBJECTS	29	ABOVE HORIZON	16
BRIGHT-ISH ABOVE HORIZON	0 using apparent magnitude <= 10 screen		

5.7 NASA/JPL Objects Above Horizon

OBJECT	CLOSE APPROACH UTC	DIST AU	H	AZ	EL	APP MAG
2023 WE2	2023-Nov-19 10:07	0.00162266083274438	27.04	35.37	36.33	15.91
2023 WA2	2023-Nov-18 21:48	0.0101159536203337	25.03	94.47	8.55	16.72
2021 VZ6	2023-Nov-19 14:49	0.0543875399997685	25.15	64.12	7.61	19.41

OBJECT	CLOSE APPROACH UTC	DIST AU	H	AZ	EL	APP MAG
2021 WB2	2023-Nov-19 09:44	0.0281949197955757	24.60	354.07	15.40	19.45
2014 WR365	2023-Nov-18 14:52	0.183312310203469	23.27	53.97	11.09	20.73
2023 XV	2023-Nov-18 00:32	0.0961757694299367	24.27	35.30	33.70	20.91
2023 WL3	2023-Nov-19 20:21	0.109995281073024	23.96	60.69	49.39	20.95
2023 XK11	2023-Nov-19 17:03	0.0985847993172499	23.33	161.50	2.28	21.30
2023 VB10	2023-Nov-19 21:35	0.0362921633891739	26.27	77.82	67.94	21.31
2023 VD9	2023-Nov-18 07:12	0.0637626175263115	24.10	297.71	61.69	21.88

5.8 NASA/JPL Bright-Candidate Result

OBJECT	AZ	EL	APP MAG
No above-horizon close-approach object met the apparent magnitude ≤ 10 screen.			

- NASA/JPL CAD listed 29 near-Earth close approaches in the event-date ± 1 day window within 0.2 au.
- Horizons placed 16 of those objects above the local horizon at the report coordinate/time.
- None of the above-horizon close-approach objects were remotely bright enough for naked-eye explanation using the $\text{mag} \leq 10$ screen.

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.

HOURL UTC	2023111922
CLOUD AMOUNT	8.43%
PRECIPITATION	0.0 mm/hr
10 M WIND	3.6 m/s
TEMPERATURE	21.45 C
RELATIVE HUMIDITY	74.04%
DONKI +/-1 DAY	CME: unavailable; FLR: unavailable; GST: unavailable; HSS: unavailable; IPS: unavailable; MPC: unavailable; RBE: unavailable; SEP: unavailable; WSAEnlilSimulations: unavailable

5.10 Horizons Sky Geometry Context

OBJECT	AZ	EL	APP MAG
Sun	249.47	-3.35	-26.77
Moon	171.32	41.01	-9.99
Venus	285.53	-32.35	-4.26
Mars	249.73	-3.82	1.35
Jupiter	83.84	16.17	-2.88
Saturn	158.06	45.77	0.82

- Sun elevation was -3.4 deg, so this was a dark-sky/nighttime sighting.
- Moon was above horizon at azimuth 171.3 deg / elevation 41.0 deg.
- Planets above horizon: Jupiter (16.2 deg), Saturn (45.8 deg).
- NASA POWER cloud amount for the hour was 8.43%, with precipitation 0.0 mm/hr.

5.11 Free Source Availability and Remaining Work

LAYER	STATUS	CASE-SPECIFIC NOTE
ADSB.LOL HISTORICAL RELEASE LISTING	screened/present	planes-readsb-staging-0 1506.8 MiB; planes-readsb-prod-0 1507.8 MiB
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 adslol/globe_history_2023 for 2023-11-19, then filter +/-60 min and 250 nmi around 28.8025,-83.3055.
- NASA POWER/Horizons/DONKI: batch context for 237UAP00318 at 2023-11-19T22:50:00+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	GOES16
GOES ABI PREFIX	https://noaa-goes16.s3.amazonaws.com/ABI-L2-CMIPF/2023/323/22/
GOES GLM LIGHTNING PREFIX	https://noaa-goes16.s3.amazonaws.com/GLM-L2-LCFA/2023/323/22/

5.13 Nearest Weather-Airport Candidates

STATION	NAME	DISTANCE KM	COORDINATE
KPIE	St. Petersburg Clearwater International Airport	116.20	27.91, -82.69
KTPA	Tampa International Airport	119.00	27.98, -82.53
KMCF	MacDill Air Force Base	130.90	27.85, -82.52
KGNV	Gainesville Regional Airport	140.70	29.69, -82.27
KLEE	Leesburg International Airport	145.90	28.82, -81.81

- KPIE: [IEM ASOS/METAR daily CSV query](#)
- KTPA: [IEM ASOS/METAR daily CSV query](#)
- KMCF: [IEM ASOS/METAR daily CSV query](#)

5.14 Nearest Radiosonde Stations

STATION	NAME	DISTANCE KM	COORDINATE
USM00072210	TAMPA BAY AREA; FL.	150.80	27.71, -82.40
USM00072214	TALLAHASSEE/MUN.; FL.	206.50	30.45, -84.30
USM00072206	JACKSONVILLE/INTNL.; FL.	242.90	30.48, -81.70
USM00074794	CAPE KENNEDY	271.50	28.47, -80.55
USM00072221	VALPARAISO/EGLIN AFB; FL.	362.20	30.48, -86.52

5.15 ASOS/METAR Surface Weather Observations

surface visibility ranged 10-10 statute miles; no precipitation was reported in the retained observations; no low broken/overcast cloud ceiling was evident in the retained station observations. 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
KPIE	116.20	2023-11-19T22:53:00 +00:00	10.00	CLR, M, M, M	310.00 / 7.00	KPIE 192253Z 31007KT 10SM CLR 22/16 A2991 RMK AO2 SLP127 T02220156
KTPA	119.00	2023-11-19T22:53:00 +00:00	10.00	FEW03800, FEW25000, M, M	320.00 / 5.00	KTPA 192253Z 32005KT 10SM FEW038 FEW250 22/15 A2991 RMK AO2 SLP128 T02220150
KMCF	130.90	2023-11-19T22:55:00 +00:00	10.00	CLR, M, M, M	320.00 / 4.00	KMCF 192255Z AUTO 32004KT 10SM CLR 23/16 A2986 RMK AO2 SLP114 T02280156 FZFRANO \$

5.16 NOAA IGRA Radiosonde Wind Profile

Nearest sounding implies mean 0-12 km wind drift toward 276.4 deg at 18.39 m/s; a passive balloon could drift about 132.4 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
USM00072210	TAMPA BAY AREA; FL.	150.80	2023-11-20T00:00 :00+00:00	276.40	18.39	132.40	35.50 at 21591.00 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	GOES16	BUCKET	noaa-goes16
ABI SAMPLE FILES	12	GLM SAMPLE FILES	12

ABI sample objects:

- [ABI-L2-CMIPF/2023/323/22/OR_ABI-L2-CMIPF-M6C01_G16_s20233232200206_e20233232209514_c20233232209567.nc](#)
- [ABI-L2-CMIPF/2023/323/22/OR_ABI-L2-CMIPF-M6C01_G16_s20233232210206_e20233232219514_c20233232219585.nc](#)
- [ABI-L2-CMIPF/2023/323/22/OR_ABI-L2-CMIPF-M6C01_G16_s20233232220206_e20233232229514_c20233232229572.nc](#)
- [ABI-L2-CMIPF/2023/323/22/OR_ABI-L2-CMIPF-M6C01_G16_s20233232230206_e20233232239514_c20233232239581.nc](#)

GLM lightning sample objects:

- [GLM-L2-LCFA/2023/323/22/OR_GLM-L2-LCFA_G16_s20233232200000_e20233232200200_c20233232200213.nc](#)
- [GLM-L2-LCFA/2023/323/22/OR_GLM-L2-LCFA_G16_s20233232200200_e20233232200400_c20233232200414.nc](#)
- [GLM-L2-LCFA/2023/323/22/OR_GLM-L2-LCFA_G16_s20233232200400_e20233232201000_c20233232201019.nc](#)
- [GLM-L2-LCFA/2023/323/22/OR_GLM-L2-LCFA_G16_s20233232201000_e20233232201200_c20233232201219.nc](#)

5.18 ADSB.lol Historical Aircraft Track Extraction

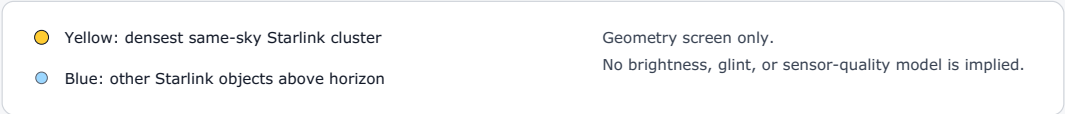
This layer uses the downloaded ADSB.lol daily history archive to test actual aircraft tracks near the report coordinate and minute. It is not treated as a primary-radar substitute; it is a transponder/receiver-derived aircraft screen.

ARCHIVE WINDOW	2023-11-19T21:50:00+00:00 to 2023-11-19T23:50:00+00:00	RADIUS	250.00 nmi
TRACE FILES SCANNED	19340	TRACKS RETAINED	800
SUPPORT STATUS	aircraft strong candidate present	BEST-CANDIDATE NOTE	ordinary-object favored if the report's count, color, direction, and motion can be reconciled with the candidate track(s).
STRONG CANDIDATES	21	PLAUSIBLE CANDIDATES	115
REPORTING-AIRCRAFT TRACKS EXCLUDED	3	WEAK CANDIDATES	193

5.19 Top ADS-B Candidate Tracks

AIRCRAFT	STATUS	SCORE	MIN DIST KM	NEAREST DT MIN	ALT FT	AZ	EL
C-FPRP B738 c02966	strong aircraft candidate	91.67	13.80	0.10	35000	268.10	35.41
N81ER C25B ab0777	strong aircraft candidate	80.99	5.30	0.13	11025	90.50	49.37
N189WT C560 a16421	strong aircraft candidate	76.95	54.10	0.09	33300	76.70	9.86
N7720F B737 aa72d3	strong aircraft candidate	76.31	57.70	0.06	32000	47.40	9.18
N537DT A21N a6cacb	strong aircraft candidate	72.72	48.80	0.07	30025	24.40	8.93
N8575F P28A abc466	strong aircraft candidate	69.72	36.10	0.70	5575	51.50	2.30
N630NK A320 a83ef2	strong aircraft candidate	69.35	75.80	0.09	34000	217.10	7.03
N172DP C72R a120f4	strong aircraft candidate	65.47	59.60	0.10	7600	63.70	1.94

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	2023-11-19T22:50:00+00:00	Directly used in propagation; this is a hard filter, not descriptive context.
LOCATION CONSTRAINT	28.80250, -83.30554	Directly used as observer point for azimuth/elevation/range computation.
COUNT / PATTERN	multiple-object/light language present	No compact same-launch count match; retained for unresolved report features.
MOTION LANGUAGE	not explicit	Apparent motion labels in the object table provide a plausible but not definitive comparison.
RADAR / OFFICIAL CHECK	not observed on ATC radar	No ATC radar return can be consistent with distant orbital objects or visual aircraft-light hypotheses, but it does not prove the match.
ANALYTIC DISPOSITION	normal-object	237UAP00318 is assessed as normal-object favored because the available public evidence gives a case-specific ordinary-object candidate: strong ADS-B aircraft candidate C-FPRP B738 c02966 at 14.9 km, azimuth 268.1 deg, elevation 35.41 deg, 2.52 min from report. Dense satellite presence alone is not treated as causation in this packet.

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.
- Normal-object favored is not the same as a perfect named-object identification; it requires a case-specific ordinary-object candidate stronger than simple object density.

Appendix A. Public Report Text Extracts

237UAP00318

SKYWATCH INCIDENT REPORT

PRIMARY CODE: UNIDENTIFIED AERIAL PHENOMENON

Date: 22:50 11/19/2023

Status: Closed

POD: DEN

Reporting Facility: ZJX

Callsign: ASA516

Aircraft: B39M

Tail Number:

Operator: ASA

Origin: SEA

Destination: FLL

New Destination:

Operator Type: Commercial

Paged: YES

REMARKS

Multiple aircraft reported an unidentified aerial phenomenon off in the vicinity of LAL306084, NW of TPA. The unknown phenomenon was described as an object the size of an aircraft at approximately FL250 to FL310. The UAP was not observed on ATC facility radar system. This incident was initially reported by 5 aircraft observing the same white object. No evasive maneuvers reported, no impact to operations.

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": "2023-11-19T22:50:00+00:00",
  "source_excerpt": "Multiple aircraft reported an unidentified aerial phenomenon off in the vicinity of LAL306084, NW of TPA. The unknown phenomenon was described as an object the size of an aircraft at approximately FL250 to FL310. The UAP was not observed on ATC facility radar system. This incident was initially reported by 5 aircraft observing the same white object. No evasive maneuvers reported, no impact to operations.",
  "historical_starlink_element_rows": 5052,
  "observer": {
    "lat": 28.802504595956528,
    "lon": -83.30553888455142,
    "source": "aviation_radial:LAL306084 (public text extract 237UAP00318)"
  },
  "case_id": "237UAP00318",
  "starlink_above_horizon_at_report_time": 230,
  "starlink_catalog_ids_considered": 5076,
  "largest_same-sky_cluster_count": 53,
  "starlink_at_or_above_10_deg": 95,
  "top_starlinks": [
    {
      "azimuth_deg": 146.53,
      "azimuth_plus_2m_deg": 352.88,
      "azimuth_plus_5m_deg": 350.06,
      "element_age_hours": 0.12,
      "element_epoch": "2023-11-19T22:42:37.926720+00:00",
      "elevation_deg": 72.07,
      "elevation_plus_2m_deg": 34.94,
      "elevation_plus_5m_deg": 6.61,
      "epoch_altitude_km": 567.85,
      "ground_track_bearing_deg": 348.35,
      "ground_track_label": "NNW",
      "launch_date": "2023-04-27",
      "name": "STARLINK-5829",
      "norad_id": "56347",
      "range_km": 591.16,
      "sky_motion_label": "westward, setting",
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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: 237UAP00318
TIME AND OBSERVER COORDINATE	extracted	2023-11-19T22:50:00+00:00 at 28.80250, -83.30554
ORBITAL OBJECT PROPAGATION	screened	Starlink
SPACE-TRACK SATCAT METADATA	screened	30 NORAD IDs checked; 30 matched in local SATCAT subset
LAUNCH-OBJECT/SUPGP LAYER	not applicable	not a launch-object case
NASA/JPL KNOWN SMALL-BODY LAYER	screened	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	screened	19340 trace files scanned; 800 tracks retained; aircraft strong candidate present
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	normal-object favored	Presence-only satellite density is context only; a stronger case-specific fit is required for normal-object disposition

References and Source Links

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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. *237UAP00318.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-615/493468575/237UAP00318.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/JPL Solar System Dynamics. *Close-Approach Data API documentation for known small-body encounter screening*. <https://ssd-api.jpl.nasa.gov/doc/cad.html>
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 POWER. *Hourly point API documentation for meteorological context*. <https://power.larc.nasa.gov/docs/services/api/temporal/hourly/>
12. NASA. *DONKI space weather API documentation*. <https://api.nasa.gov/>
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14. ADSB.lol. *Historical open-data release documentation*. <https://www.adsb.lol/docs/open-data/historical/>
15. OpenSky Network. *REST API documentation*. <https://openskynetwork.github.io/opensky-api/rest.html>
16. OpenSky Network. *Historical data via Trino documentation*. <https://openskynetwork.github.io/opensky-api/trino.html>
17. NASA GIBS. *Global Imagery Browse Services API documentation*. <https://nasa-gibs.github.io/gibs-api-docs/>
18. NASA Earthdata. *Common Metadata Repository search API documentation*. <https://cmr.earthdata.nasa.gov/search/site/docs/search/api.html>
19. NOAA / AWS Open Data. *GOES public dataset registry*. <https://registry.opendata.aws/noaa-goes/>
20. NOAA / AWS Open Data. *NEXRAD public dataset registry*. <https://registry.opendata.aws/noaa-nexrad/>
21. NOAA NCEI. *Integrated Global Radiosonde Archive*. <https://www.ncei.noaa.gov/products/weather-balloon/integrated-global-radiosonde-archive>
22. Iowa Environmental Mesonet. *ASOS/AWOS/METAR data download service*. <https://mesonet.agron.iastate.edu/request/download.phtml>
23. Celestrak. *Spacetrack Report No. 3: Models for propagation of NORAD element sets*. <https://celestrak.org/NORAD/documentation/spacetrk.pdf>
24. Celestrak. *Supplemental GP element sets documentation and current endpoint index*. <https://celestrak.org/NORAD/elements/supplemental/>