

CASE FILE 83 / 237UAP00629

# 237UAP00629

Multiple-witness public UAP report; score 46

HIGH-VALUE UNRESOLVED

REPORT NO.	UAP-OM-83-237UAP00629	DISPOSITION	HIGH-VALUE UNRESOLVED
PRIMARY CASE	237UAP00629	GENERATED	2026-05-20 18:32 UTC
REPORT TIME	2024-05-26T12:26:00+00:00	OBSERVER	21.33316, -71.19828
SOURCE CASE IDS	237UAP00629		

## 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

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237UAP00629 was screened against historical public LEO catalog objects 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: multiple witnesses/facilities.

## 1.1 Key Findings

- Source score 46 based on: multiple aircraft/facility witnesses, high-altitude report, UAP/UFO language.
- Report time used: 2024-05-26T12:26:00+00:00.
- External object layer used: public LEO catalog objects.
- Disposition standard: UNRESOLVED requires case-specific causal fit. Satellite density above the horizon is context only and cannot by itself resolve the report.
- Non-causal context / rejection screens: very dense orbital-object sky background; context only, not causation.
- Remaining hard features: multiple witnesses/facilities.
- Objects above horizon: 927; at/above 10 deg: 440.
- 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

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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
237UAP00629	5/26/2024 12:26:00 AM (-00 Local)	N513MA UFO-UAP ACTIVITY 05-25-2024	text extract present	<a href="#">237UAP00629.pdf</a>

### 3. Original Report Evidence

PRIMARY EXCERPT USED FOR MATCHING	Washington Operations Center Date: 5/26/2024 12:26:00 AM (-00 Local) Title: N513MA UFO-UAP ACTIVITY 05-25-2024 Latitude: 21.333162080000001 Latitude: -71.198277959999999 DESCRIPTION PRELIM INFO FROM FAA OPS: GRAND TURK, TURKS AND CAICOS ISLANDS/UFO-UAP ACTIVITY/0026L/MIAMI ARTCC ADVISED N513MA, GULFSTREAM GLF5, PORT OF SPAIN, TRINIDAD AND TOBAGO (TTPP) - MIA, REPORTED AN UNIDENTIFIED AERIAL PHENOMENON (UAP) FROM THE 12 O'CLOCK POSITION WHILE NW BOUND AT FL430, 10 SSW GTK VOR. NO EVASIVE ACTION TAKEN. LEO NOTIFICATION NOT REPORTED. UAP DESCRIBED AS A GROUP OF HOVERING LIGHTS. MULTIPLE ACFT INCLUDING FFT1745 AND JBU2054 ALSO REPORTED THE UAP. WOC 7-3333 JF/RC
REPORT TIME USED	2024-05-26T12:26:00+00:00
OBSERVER COORDINATE USED	21.33316, -71.19828
OBSERVER SOURCE BASIS	(public text extract 237UAP00629)

### 4. Methodology

- 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.
- External object dataset.** The object layer used historical Space-Track/TLE-derived public LEO catalog objects element rows. The analytic mode for this case is historical public LEO catalog objects element propagation and same-launch/designator sky grouping.
- 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.
- 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.
- 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.
- 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.

PUBLIC LEO CATALOG OBJECTS CATALOG IDS CONSIDERED	20354	HISTORICAL ELEMENT ROWS	20354
ABOVE HORIZON AT REPORT MINUTE	927	AT/ABOVE 10 DEG	440
LARGEST SAME-SKY CLUSTER	439		

**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 public LEO catalog objects Objects by Elevation

OBJECT	AZ	EL	RANGE KM	APPARENT MOTION	LAUNCH DATE
NORAD 57220	347.6	81.76	564.5	eastward, setting	23094C
NORAD 52695	314.7	78.2	550.66	westward, setting	22053AR
NORAD 54269	236.1	76.66	796.05	westward, setting	22151L
NORAD 31148	26.53	76.29	797.69	westward, setting	99025BHA
NORAD 10261	148.76	72.23	649.73	westward, setting	77065CN
NORAD 37153	92.56	71.69	1572.13	eastward, setting	10043B
NORAD 10013	60.23	71.0	2197.54	eastward, setting	77036C
NORAD 30077	290.65	68.88	930.24	westward, setting	99025QE
NORAD 28255	144.95	67.52	783.01	eastward, setting	04018B
NORAD 56588	191.31	66.57	854.49	eastward, setting	22151ADL
NORAD 25992	314.38	66.1	820.76	westward, setting	99067B
NORAD 81406	322.75	64.05	2059.84	eastward, setting	unknown

### 5.5 Largest Sky Clusters

#	COUNT	AZIMUTH SPAN	ELEVATION SPAN	MOTION LABELS
1	439	1.4-358.13 deg	10.0-81.76 deg	eastward, level, eastward, rising, eastward, setting, nearly fixed azimuth, rising, nearly fixed azimuth, setting, westward, rising, westward, setting
2	1	236.1-236.1 deg	76.66-76.66 deg	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	29
TOP OWNERS	US: 12, CIS: 8, PRC: 8, UK: 1		
OBJECT TYPES	DEBRIS: 17, PAYLOAD: 11, ROCKET BODY: 1		

5.7 Space-Track Metadata for Top Propagated Objects

NORAD	OBJECT NAME	TYPE	OWNER	LAUNCH DATE	DECAY DATE
57220	STARLINK-5880	PAYLOAD	US	2023-07-07	n/a
52695	STARLINK-4041	PAYLOAD	US	2022-05-18	n/a
54269	CZ-6A DEB	DEBRIS	PRC	2022-11-11	n/a
31148	FENGYUN 1C DEB	DEBRIS	PRC	1999-05-10	n/a
10261	DELTA 1 DEB	DEBRIS	US	1977-07-14	2026-03-15
37153	STRELA 3	PAYLOAD	CIS	2010-09-08	n/a
10013	SL-8 DEB	DEBRIS	CIS	1977-05-19	n/a
30077	FENGYUN 1C DEB	DEBRIS	PRC	1999-05-10	n/a
28255	TAURUS R/B	ROCKET BODY	US	2004-05-20	n/a
56588	CZ-6A DEB	DEBRIS	PRC	2022-11-11	n/a
25992	DMSP 5D-2 F15 DEB	DEBRIS	US	1999-12-12	n/a
48102	STARLINK-2437	PAYLOAD	US	2021-04-07	2025-10-04

5.9 NASA / NOAA / ADS-B Expansion Layer

NASA POWER/Horizons/DONKI batch context had not yet been written for this case at packet build time.

5.11 Free Source Availability and Remaining Work

LAYER	STATUS	CASE-SPECIFIC NOTE
ADSB.LOL HISTORICAL RELEASE LISTING	screened/present	planes-readsb-staging-0 1844.0 MiB; planes-readsb-prod-0 1844.0 MiB; planes-readsb-mlatonly-0 105.0 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 adsblol/globe\_history\_2024 for 2024-05-26, then filter +/-60 min and 250 nmi around 21.3332,-71.1983.
- NASA POWER/Horizons/DONKI: batch context for 237UAP00629 at 2024-05-26T12:26:00+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	<a href="https://noaa-goes16.s3.amazonaws.com/ABI-L2-CMIPF/2024/147/12/">https://noaa-goes16.s3.amazonaws.com/ABI-L2-CMIPF/2024/147/12/</a>
GOES GLM LIGHTNING PREFIX	<a href="https://noaa-goes16.s3.amazonaws.com/GLM-L2-LCFA/2024/147/12/">https://noaa-goes16.s3.amazonaws.com/GLM-L2-LCFA/2024/147/12/</a>

5.13 Nearest Weather-Airport Candidates

STATION	NAME	DISTANCE KM	COORDINATE
MBSY	Salt Cay Airport	0.20	21.33, -71.20
MBGT	JAGS McCartney International Airport	13.70	21.44, -71.14
MBSC	South Caicos Airport	39.80	21.52, -71.53
MBNC	North Caicos Airport	100.60	21.92, -71.94
MBPV	Providenciales International Airport	121.00	21.77, -72.27

- MBSY: [IEM ASOS/METAR daily CSV query](#)
- MBGT: [IEM ASOS/METAR daily CSV query](#)
- MBSC: [IEM ASOS/METAR daily CSV query](#)

5.14 Nearest Radiosonde Stations

STATION	NAME	DISTANCE KM	COORDINATE
DRM00078486	SANTO DOMINGO (78486-0)	347.00	18.47, -69.87
RQM00078526	SAN JUAN/INT.; PUERTO RICO	632.70	18.43, -65.99
JMM00078397	WINDSOR	710.70	17.97, -76.97
NNM00078866	JULIANA AIRPORT; ST. MAARTEN	921.60	18.04, -63.12
UCM00078988	HATO AIRPORT; CURACAO	1042.90	12.20, -68.97

5.15 ASOS/METAR Surface Weather Observations

surface visibility ranged 6.21-6.21 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
MBSY	0.20	no retained observation	n/a	n/a	n/a / n/a	
MBGT	13.70	2024-05-26T13:00:00 +00:00	6.21	SCT01500, M, M, M	40.00 / 9.00	MBGT 261300Z 04009KT 9999 SCT015 27/23 Q1016
MBSC	39.80	no retained observation	n/a	n/a	n/a / n/a	

5.16 NOAA IGRA Radiosonde Wind Profile

Nearest sounding implies mean 0-12 km wind drift toward 41.0 deg at 7.87 m/s; a passive balloon could drift about 56.7 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
DRM00078486	SANTO DOMINGO (78486-0)	347.00	2024-05-26T12:00:00+00:00	41.00	7.87	56.70	32.90 at 12490.00 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.

<b>SATELLITE</b>	GOES16	<b>BUCKET</b>	noaa-goes16
<b>ABI SAMPLE FILES</b>	12	<b>GLM SAMPLE FILES</b>	12

#### ABI sample objects:

- [ABI-L2-CMIPF/2024/147/12/OR\\_ABI-L2-CMIPF-M6C01\\_G16\\_s20241471200213\\_e20241471209521\\_c20241471210000.nc](#)
- [ABI-L2-CMIPF/2024/147/12/OR\\_ABI-L2-CMIPF-M6C01\\_G16\\_s20241471210213\\_e20241471219521\\_c20241471219581.nc](#)
- [ABI-L2-CMIPF/2024/147/12/OR\\_ABI-L2-CMIPF-M6C01\\_G16\\_s20241471220213\\_e20241471229522\\_c20241471229582.nc](#)
- [ABI-L2-CMIPF/2024/147/12/OR\\_ABI-L2-CMIPF-M6C01\\_G16\\_s20241471230213\\_e20241471239522\\_c20241471239595.nc](#)

#### GLM lightning sample objects:

- [GLM-L2-LCFA/2024/147/12/OR\\_GLM-L2-LCFA\\_G16\\_s20241471200000\\_e20241471200200\\_c20241471200214.nc](#)
- [GLM-L2-LCFA/2024/147/12/OR\\_GLM-L2-LCFA\\_G16\\_s20241471200200\\_e20241471200400\\_c20241471200417.nc](#)
- [GLM-L2-LCFA/2024/147/12/OR\\_GLM-L2-LCFA\\_G16\\_s20241471200400\\_e20241471201000\\_c20241471201016.nc](#)
- [GLM-L2-LCFA/2024/147/12/OR\\_GLM-L2-LCFA\\_G16\\_s20241471201000\\_e20241471201200\\_c20241471201217.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.

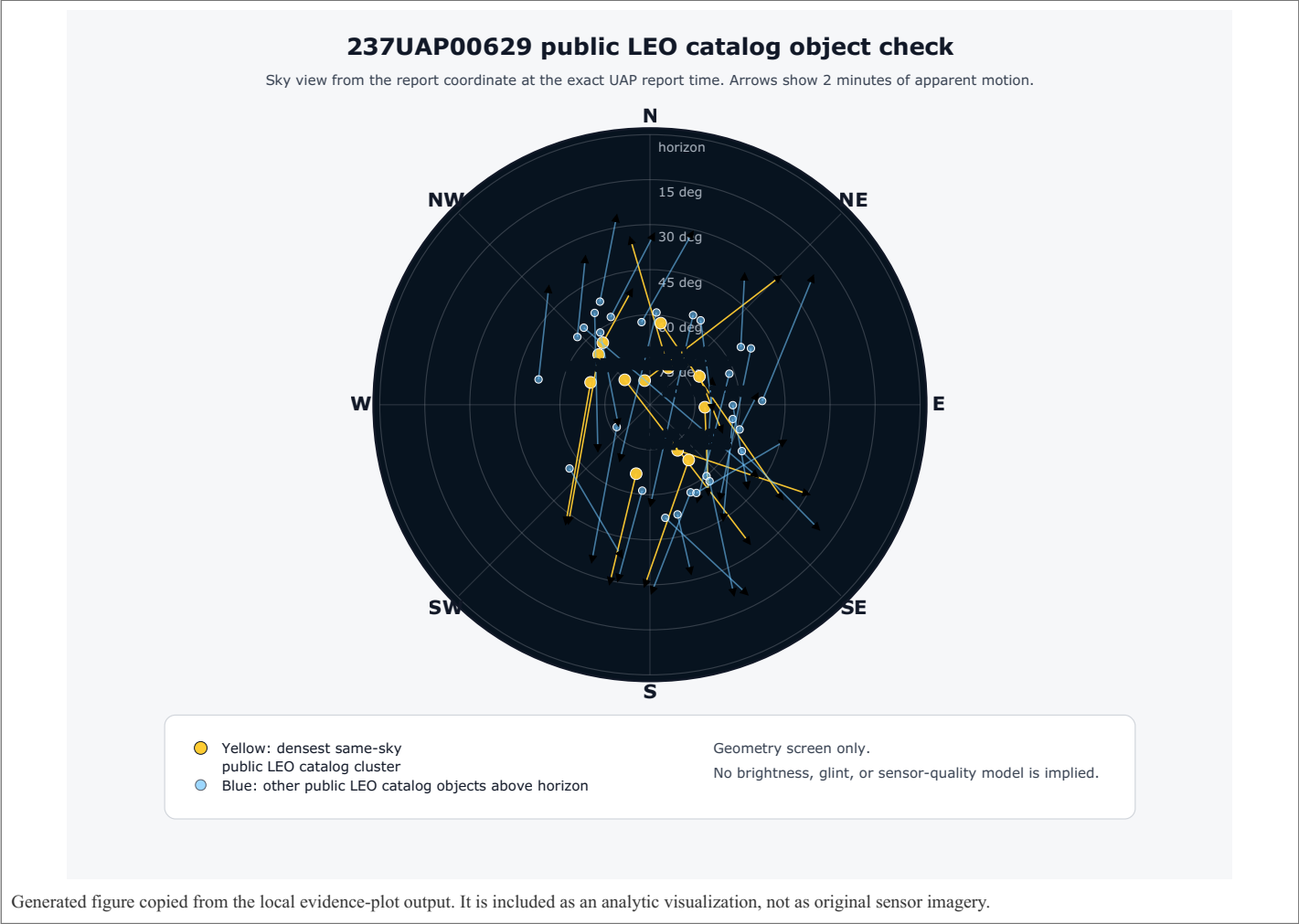
<b>ARCHIVE WINDOW</b>	2024-05-26T11:11:00+00:00 to 2024-05-26T13:41:00+00:00	<b>RADIUS</b>	300.00 nmi
<b>TRACE FILES SCANNED</b>	51409	<b>TRACKS RETAINED</b>	16
<b>SUPPORT STATUS</b>	no specific aircraft candidate	<b>BEST-CANDIDATE NOTE</b>	ADS-B extraction does not support an aircraft explanation inside the selected window/radius.
<b>STRONG CANDIDATES</b>	0	<b>PLAUSIBLE CANDIDATES</b>	0
<b>REPORTING-AIRCRAFT TRACKS EXCLUDED</b>	0	<b>WEAK CANDIDATES</b>	0

### 5.19 Top ADS-B Candidate Tracks

AIRCRAFT	STATUS	SCORE	MIN DIST KM	NEAREST DT MIN	ALT FT	AZ	EL
N328RR B38M a38d8f	background	42.85	537.50	0.13	36025	128.30	-1.35
N335RT B38M a3a9eb	background	42.33	514.50	0.58	38000	114.60	-1.03
N162UW A321 a0faf3	background	33.32	547.40	1.44	13425	117.30	-2.08
N550MX C25B a70094	background	30.88	539.00	3.53	23800	116.60	-1.65
N721CC GALX a9a778	background	24.40	553.60	9.09	20000	123.60	-1.86
N902NK A20N ac77d0	background	9.92	529.60	28.36	38975	115.30	-1.10

AIRCRAFT	STATUS	SCORE	MIN DIST KM	NEAREST DT MIN	ALT FT	AZ	EL
N339TP B38M a3b8f5	background	8.00	525.70	38.71	38000	126.60	-1.28
N8552Z B738 abbca1	background	5.50	553.60	25.28	19075	117.30	-1.89

## 6. Annotated Evidence Figure





## 7. Analytic Comparison

CRITERION	REPORT EVIDENCE	ANALYTIC TREATMENT
TIME CONSTRAINT	2024-05-26T12:26:00+00:00	Directly used in propagation; this is a hard filter, not descriptive context.
LOCATION CONSTRAINT	21.33316, -71.19828	Directly used as observer point for azimuth/elevation/range computation.
COUNT / PATTERN	three-object/light language present	No compact same-launch count match; retained for unresolved report features.
MOTION LANGUAGE	not explicit	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	237UAP00629 was screened against historical public LEO catalog objects 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: multiple witnesses/facilities.

## 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

**237UAP00629**

Washington Operations Center

Date: 5/26/2024 12:26:00 AM (-00 Local)

Title: N513MA UFO-UAP ACTIVITY 05-25-2024

Latitude: 21.333162080000001

Latitude: -71.1982779599999999

## DESCRIPTION

PRELIM INFO FROM FAA OPS: GRAND TURK, TURKS AND CAICOS ISLANDS/UFO-UAP ACTIVITY/0026L/MIAMI ARTCC ADVISED N513MA, GULFSTREAM GLF5, PORT OF SPAIN, TRINIDAD AND TOBAGO (TTTP) - MIA, REPORTED AN UNIDENTIFIED AERIAL PHENOMENON (UAP) FROM THE 12 O'CLOCK POSITION WHILE NW BOUND AT FL430, 10 SSW GTK VOR. NO EVASIVE ACTION TAKEN. LEO NOTIFICATION NOT REPORTED. UAP DESCRIBED AS A GROUP OF HOVERING LIGHTS. MULTIPLE ACFT INCLUDING FFT1745 AND JBU2054 ALSO REPORTED THE UAP. WOC 7-3333 JF/RC

## 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": "2024-05-26T12:26:00+00:00",
  "source_excerpt": "Washington Operations Center\n\n\n\nDate: 5/26/2024 12:26:00 AM (-00 Local)\nTitle: N513MA UFO-UAP\nACTIVITY 05-25-2024\nLatitude: 21.333162080000001\nLatitude: -71.198277959999999\n\n\n\nDESCRIPTION\n\nPRELIM INFO FROM FAA OPS: GRAND TURK, TURKS AND CAICOS ISLANDS/UFO-UAP ACTIVITY/0026L/MIAMI ARTCC\nADVISED N513MA, GULFSTREAM GLF5, PORT OF SPAIN, TRINIDAD AND TOBAGO (TTPP) - MIA, REPORTED AN\nUNIDENTIFIED AERIAL PHENOMENON (UAP) FROM THE 12 O'CLOCK POSITION WHILE NW BOUND AT FL430, 10 SSW\nGTK VOR. NO EVASIVE ACTION TAKEN. LEO NOTIFICATION NOT REPORTED. UAP DESCRIBED AS A GROUP OF\nHOVERING LIGHTS. MULTIPLE ACFT INCLUDING FFT1745 AND JBU2054 ALSO REPORTED THE UAP. WOC 7-3333\nJF/RC",
  "historical_starlink_element_rows": 20354,
  "observer": {
    "lat": 21.33316208,
    "lon": -71.19827796,
    "source": "(public text extract 237UAP00629)"
  },
  "case_id": "237UAP00629",
  "starlink_above_horizon_at_report_time": 927,
  "starlink_catalog_ids_considered": 20354,
  "largest_same-sky_cluster_count": 439,
  "starlink_at_or_above_10_deg": 440,
  "top_starlinks": [
    {
      "azimuth_deg": 347.6,
      "azimuth_plus_2m_deg": 45.45,
      "azimuth_plus_5m_deg": 48.5,
      "element_age_hours": 0.15,
      "element_epoch": "2024-05-26T12:17:11.941728+00:00",
      "elevation_deg": 81.76,
      "elevation_plus_2m_deg": 28.96,
      "elevation_plus_5m_deg": 5.62,
      "epoch_altitude_km": 565.0,
      "ground_track_bearing_deg": 49.75,
      "ground_track_label": "NE",
      "launch_date": "23094C",
      "launch_designator": "23094C",
      "name": "NORAD 57220",
      "norad_id": "57220",
      "range_km": 564.5,
      "sky_motion_label": "eastward, setting",
      "subpoint_lat": 21.989,
      "subpoint_lon": -71.3529
    },
    {
      "azimuth_deg": 314.7,
      "azimuth_plus_2m_deg": 144.29,
      "azimuth_plus_5m_deg": 143.72,
      "element_age_hours": 3.85,
      "element_epoch": "2024-05-26T08:34:56.406720+00:00",
      "elevation_deg": 78.2,
      "elevation_plus_2m_deg": 33.07,
      "elevation_plus_5m_deg": 6.37,
      "epoch_altitude_km": 545.83,
      "ground_track_bearing_deg": 142.96,
      "ground_track_label": "SE",
      "launch_date": "22053AR",
      "launch_designator": "22053AR",
      "name": "NORAD 52695",
      "norad_id": "52695",
      "range_km": 550.66,
      "sky_motion_label": "westward, setting",
      "subpoint_lat": 21.9909,
      "subpoint_lon": -71.9129
    },
    {
      "azimuth_deg": 236.1,
      "azimuth_plus_2m_deg": 200.35,
      "azimuth_plus_5m_deg": 196.61,
      "element_age_hours": 2.61,
      "element_epoch": "2024-05-26T15:02:21.295104+00:00",
      "elevation_deg": 76.66,
      "elevation_plus_2m_deg": 34.23,
      "elevation_plus_5m_deg": 9.71,
      "epoch_altitude_km": 661.54,
      "ground_track_bearing_deg": 193.05,
      "ground_track_label": "SSW",
      "launch_date": "22151L",
      "launch_designator": "22151L",
      "name": "NORAD 54269",
      "norad_id": "54269",
      "range_km": 796.05,
    }
  ]
}
```

```

"sky_motion_label": "westward, setting",
"subpoint_lat": 20.5035,
"subpoint_lon": -72.5016
},
{
"azimuth_deg": 26.53,
"azimuth_plus_2m_deg": 353.21,
"azimuth_plus_5m_deg": 349.81,
"element_age_hours": 13.26,
"element_epoch": "2024-05-27T01:41:21.222528+00:00",
"elevation_deg": 76.29,
"elevation_plus_2m_deg": 34.04,
"elevation_plus_5m_deg": 9.77,
"epoch_altitude_km": 668.56,
"ground_track_bearing_deg": 347.0,
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"epoch_altitude_km": 991.83,
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  "ground_track_bearing_deg": 192.64,
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  "launch_designator": "99067B",
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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: 237UAP00629
TIME AND OBSERVER COORDINATE	extracted	2024-05-26T12:26:00+00:00 at 21.33316, -71.19828
ORBITAL OBJECT PROPAGATION	screened	public LEO catalog objects
SPACE-TRACK SATCAT METADATA	screened	30 NORAD IDs checked; 29 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	not exhausted	Hourly weather, sky geometry, and space-weather context where local JSON is present
AIRCRAFT/ADS-B LAYER	screened	51409 trace files scanned; 16 tracks retained; no specific aircraft candidate
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

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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. *237UAP00629.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-615/493468575/237UAP00629.pdf>
6. Hugging Face dataset. *oxzoid/space-track-tle-history: historical TLE archive used for public LEO catalog objects 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. ADSB.lol. *Interactive API documentation and OpenAPI definition*. <https://api.adsb.lol/docs>
10. ADSB.lol. *Historical open-data release documentation*. <https://www.adsb.lol/docs/open-data/historical/>
11. OpenSky Network. *REST API documentation*. <https://openskynetwork.github.io/opensky-api/rest.html>
12. OpenSky Network. *Historical data via Trino documentation*. <https://openskynetwork.github.io/opensky-api/trino.html>
13. NASA GIBS. *Global Imagery Browse Services API documentation*. <https://nasa-gibs.github.io/gibs-api-docs/>
14. NASA Earthdata. *Common Metadata Repository search API documentation*. <https://cmr.earthdata.nasa.gov/search/site/docs/search/api.html>
15. NOAA / AWS Open Data. *GOES public dataset registry*. <https://registry.opendata.aws/noaa-goes/>
16. NOAA / AWS Open Data. *NEXRAD public dataset registry*. <https://registry.opendata.aws/noaa-nexrad/>
17. NOAA NCEI. *Integrated Global Radiosonde Archive*. <https://www.ncei.noaa.gov/products/weather-balloon/integrated-global-radiosonde-archive>
18. Iowa Environmental Mesonet. *ASOS/AWOS/METAR data download service*. <https://mesonet.agron.iastate.edu/request/download.phtml>
19. CelesTrak. *Spacetrack Report No. 3: Models for propagation of NORAD element sets*. <https://celestrak.org/NORAD/documentation/spacetrk.pdf>
20. CelesTrak. *Supplemental GP element sets documentation and current endpoint index*. <https://celestrak.org/NORAD/elements/supplemental/>