

HARRIER™ ADLS Report for NextEra - La Casa, May 1st - 31st, 2026

This report presents information from the HARRIER ADLS system used to monitor and determine whether warning lights were turned on or off at NextEra - La Casa during May 1st - 31st, 2026 for each night (Table 1). The distribution of time that lights were on and off is shown in timelines for each night, when lights were on >40% of the time (Table 2). Targets detected by radar as aircraft are identified as an "aircraft-like target" if they meet specific criteria that encompass the variety of aircrafts. Other ADLS system states will also turn on the warning lights; these are listed and defined in Table 3, with color-codes matching headers in Table 1 and timeline events in Table 2. Trackplots are presented in the appendix for each night, when lights were on >40% of the time due to aircraft-like detections alone.

Table 1. Warning light information from the ADLS system used to monitor NextEra - La Casa during May 1st - 31st, 2026. Nights highlighted red if lights were on >40% of the time (last column), or if lights were on >40% due to aircraft-like targets alone (column 4).

Sunset	Sunrise	Total night hours	Lights on due to Aircraft-like targets detected in polygon (hours)	Lights on due to Weather detected in polygon (hours)	Lights on due to system issue (hours)	Total lights on during night (hours)	Total lights on during night (percent)
2026-05-01 19:15:57	2026-05-02 05:46:51	10.52	1.34	0	0	1.42	13.52
2026-05-02 19:16:48	2026-05-03 05:46:04	10.49	4.79	0	0	4.87	46.47
2026-05-03 19:17:34	2026-05-04 05:45:03	10.46	7.75	0	0	7.84	74.96
2026-05-04 19:18:00	2026-05-05 05:43:58	10.43	4.33	0	0	4.38	41.98
2026-05-05 19:18:50	2026-05-06 05:43:12	10.41	1.77	0	0	1.86	17.83
2026-05-06 19:19:37	2026-05-07 05:42:25	10.38	0.88	0	0	0.88	8.46
2026-05-07 19:20:20	2026-05-08 05:41:24	10.35	1.96	1.24	0	3.28	31.72
2026-05-08 19:21:00	2026-05-09 05:40:40	10.33	1.9	3.78	0	5.72	55.41
2026-05-09 19:21:36	2026-05-10 05:39:39	10.3	3.59	0	0	3.67	35.68
2026-05-10 19:22:30	2026-05-11 05:39:10	10.28	0.11	1.85	0	2.01	19.54
2026-05-11 19:23:13	2026-05-12 05:38:13	10.25	2.14	0	0	2.23	21.72
2026-05-12 19:23:52	2026-05-13 05:37:30	10.23	3.27	0	0.03	3.35	32.8
2026-05-13 19:24:32	2026-05-14 05:36:46	10.2	4.36	0	0	4.44	43.56
2026-05-14 19:25:19	2026-05-15 05:36:03	10.18	3.81	0.41	0.01	4.31	42.33
2026-05-15 19:25:58	2026-05-16 05:35:20	10.16	1.67	0.5	0.04	2.25	22.14
2026-05-16 19:26:42	2026-05-17 05:34:40	10.13	4.06	0	0.03	4.09	40.37
2026-05-17 19:27:28	2026-05-18 05:34:04	10.11	2.95	0	0	3.03	29.99
2026-05-18 19:28:12	2026-05-19 05:33:36	10.09	1.5	0	0	1.54	15.23
2026-05-19 19:28:55	2026-05-20 05:32:56	10.07	0.1	0	0.06	0.18	1.81
2026-05-20 19:29:27	2026-05-21 05:32:27	10.05	0.46	5.08	0	5.63	56
2026-05-21 19:30:18	2026-05-22 05:31:51	10.03	0.99	0	0	1.08	10.74
2026-05-22 19:30:50	2026-05-23 05:31:26	10.01	0.69	5.5	0	6.19	61.87
2026-05-23 19:31:37	2026-05-24 05:30:46	9.99	0.34	3.54	0	3.96	39.7
2026-05-24 19:32:09	2026-05-25 05:30:14	9.97	0	7.98	0	7.98	80.08
2026-05-25 19:32:56	2026-05-26 05:30:07	9.95	1.9	0	0	1.99	19.95
2026-05-26 19:33:32	2026-05-27 05:29:31	9.93	0	2.25	0	2.25	22.61
2026-05-27 19:34:04	2026-05-28 05:29:06	9.92	0.93	0	0	0.95	9.57
2026-05-28 19:34:44	2026-05-29 05:28:48	9.9	2.42	0	0	2.5	25.28
2026-05-29 19:35:20	2026-05-30 05:28:26	9.88	2.09	0	0	2.17	22
2026-05-30 19:35:56	2026-05-31 05:28:04	9.87	1.65	0	0	1.73	17.54
2026-05-31 19:36:36	2026-06-01 05:28:01	9.86	1.06	0	0	1.08	10.93

Table 2. Timelines showing when different ADLS system states occurred during nights, when lights were on >40% of the time at NextEra - La Casa during May 1st - 31st, 2026. Timeline colors are defined in Table 3 (gray = lights off, blue = aircraft-like target, green = weather, yellow = light test, and red = system issues).

Sunset	Sunrise	Timeline
2026-05-02 19:16:48	2026-05-03 05:46:04	
2026-05-03 19:17:34	2026-05-04 05:45:03	
2026-05-04 19:18:00	2026-05-05 05:43:58	
2026-05-08 19:21:00	2026-05-09 05:40:40	
2026-05-13 19:24:32	2026-05-14 05:36:46	
2026-05-14 19:25:19	2026-05-15 05:36:03	
2026-05-16 19:26:42	2026-05-17 05:34:40	
2026-05-20 19:29:27	2026-05-21 05:32:27	
2026-05-22 19:30:50	2026-05-23 05:31:26	
2026-05-24 19:32:09	2026-05-25 05:30:14	

Table 3. ADLS system states that turn warning lights on or off, their definitions, and colors used to indicate the state in the previous tables (red color-coded states are grouped under "System Issues").

State	Color	Definition
Lights Off	Gray	ADLS working properly, and no aircraft-like targets or weather detected in the FAA buffer zone.
Weather	Green	Warning lights on due to weather detected within the FAA buffer zone, sufficient to obscure target detection or affect pilot observation.
Aircraft-like Target	Blue	Warning lights on due to aircraft-like target detected, and kept on until target leaves the FAA buffer zone.
Test	Yellow	Warning lights on for nightly light communication test requested by FAA
SQL	Red	Warning lights on due to SQL error (database issue), lights kept on until resolved.
MERLIN	Red	Warning lights on due to MERLIN software error (data processing issue), lights kept on until resolved.
Failsafe	Red	Warning lights on due to any failsafe event not included under MERLIN, SQL or ADLS Offline states.
ADLS Offline	Red	Warning lights on due to communication issue between ADLS system and the lights, lights kept on until resolved.
Maintenance	Red	Warning lights on so maintenance people can confirm lights are working.

Trend Analysis

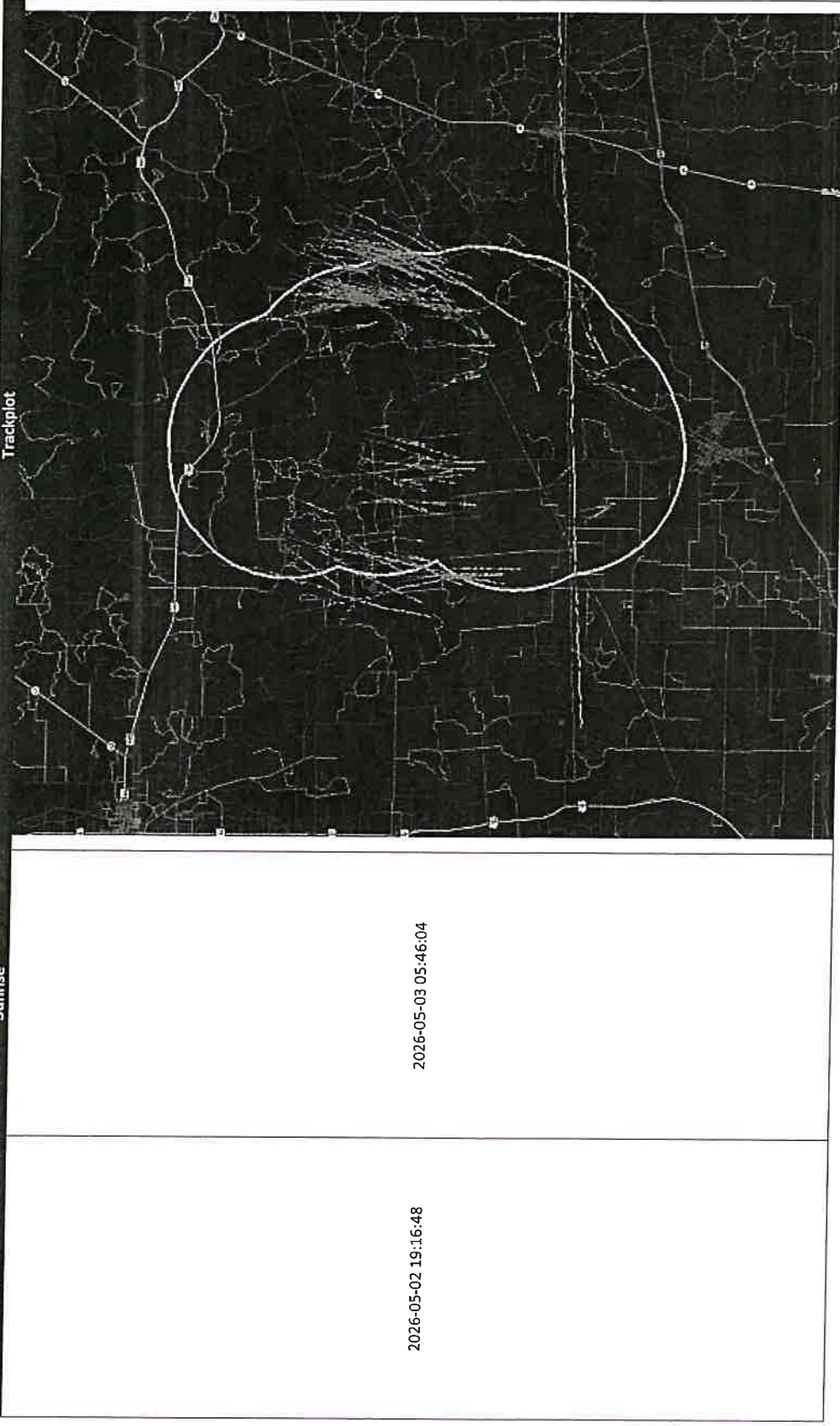
Figure 1 shows the trend for percent time lights on due to aircraft-like targets during nights from the commission date to present, or the past year, showing the progression of ADLS calibration at this site. A 28-day moving average is applied (orange line in Figure 1), which is meant to smooth out noise and emphasize long-term trends. Table 4 summarizes the average percent of nighttime hours that warning lights were on and off during each month since the commission date, or for the past year.

Figure 1. A 28-day moving average showing the trend for percent time lights on due to aircraft-like targets during nights, at NextEra - La Casa from commission date to present, or the past year.

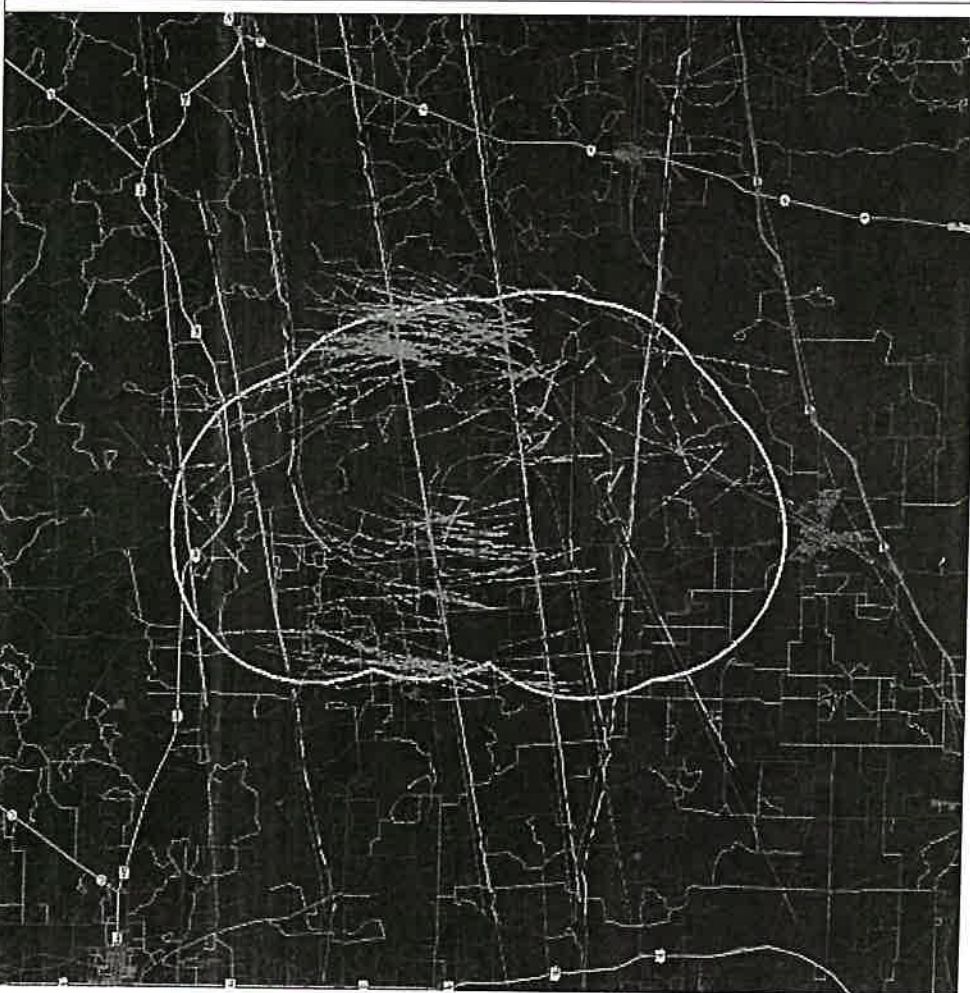
Table 4. Average percent of nighttime hours that warning lights were on and off at NextEra - La Casa during each month since the commission date, or the past year.

Date	Monthly average lights on during night (percent)	Monthly average lights off during night (percent)
2025-12	100	0
2026-01	65.28	34.72
2026-02	58.96	41.04
2026-03	55.37	44.63
2026-04	41.33	58.67
2026-05	31.35	68.65

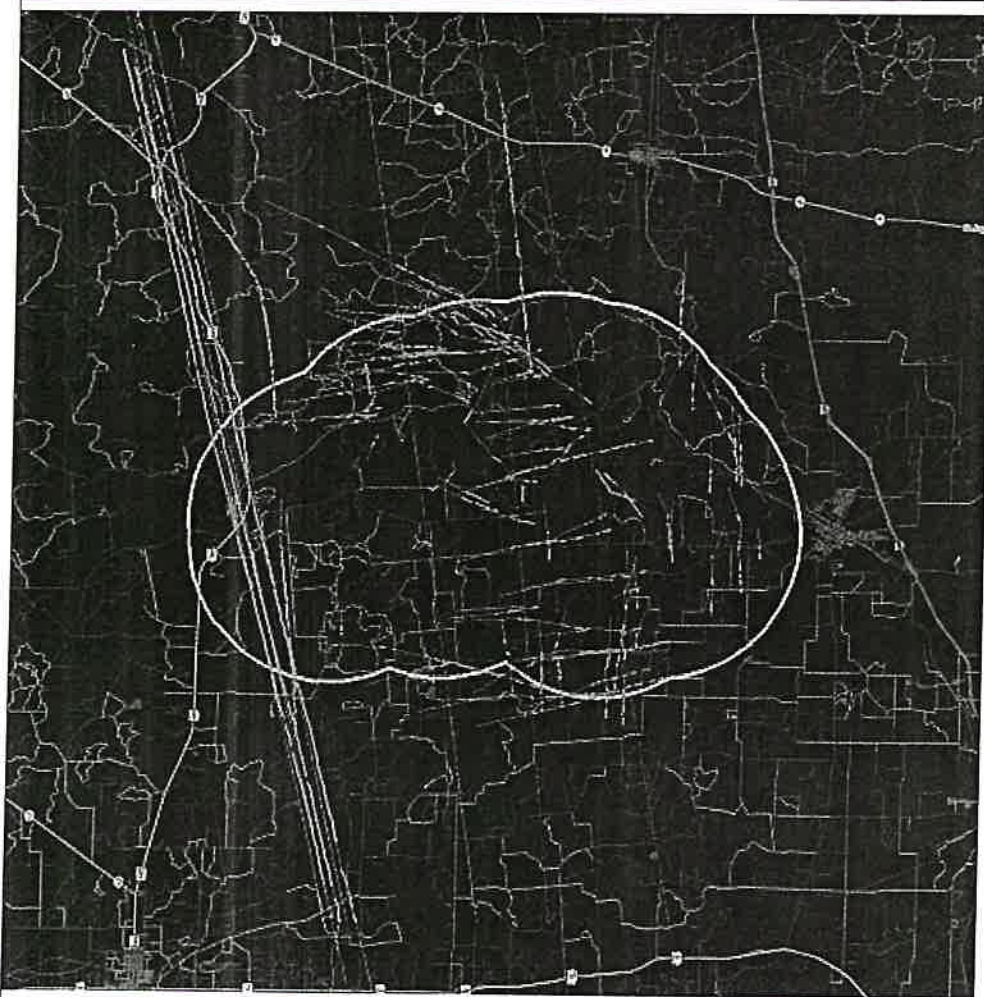
Appendix for Nights: Trackplots during nights at NextEra - La Casa during May 1st - 31st, 2026, when lights were on >40% of the time due to aircraft-like detections alone. White polygon = FAA buffer, blue = aircraft-like detections, green = ADSB detections, red, yellow and gray tracks categorized as non-planes.



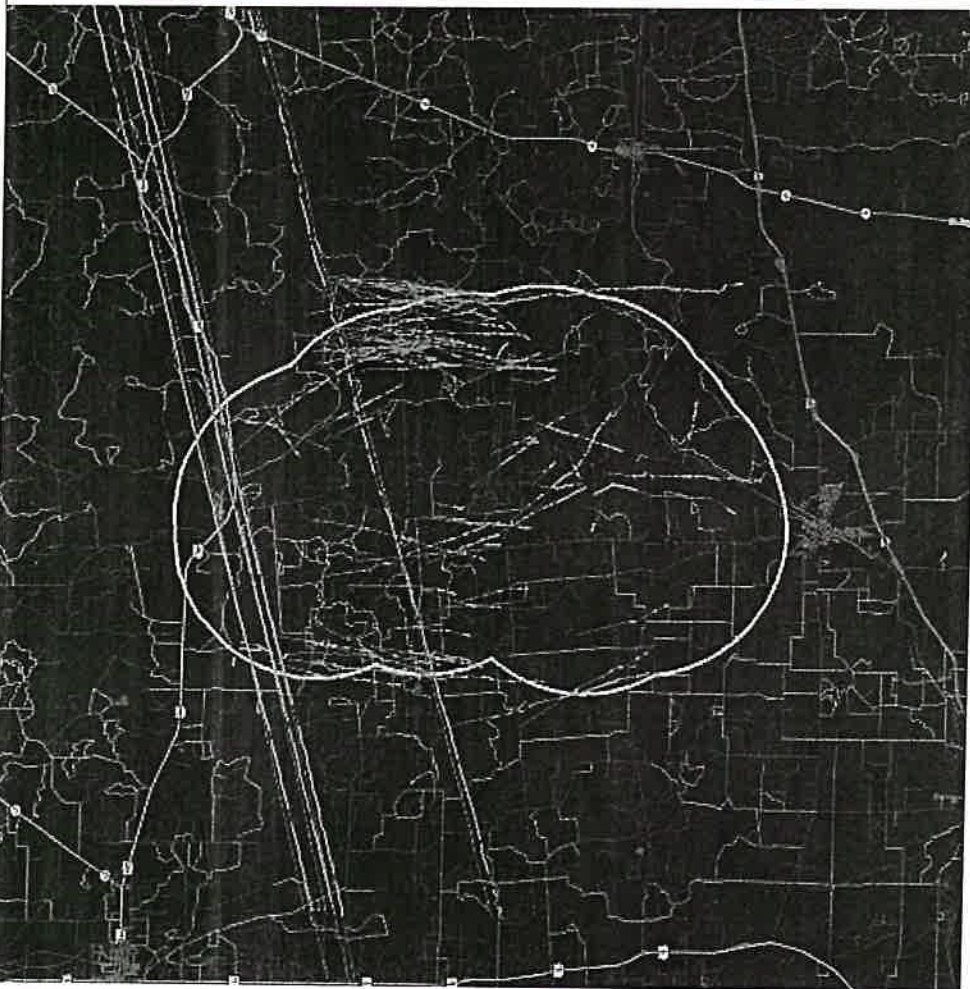
	2026-05-03 19:17:34
	2026-05-04 05:45:03

An aerial photograph of a landscape, likely a rural or undeveloped area. The image shows a network of roads, fields, and some scattered buildings. A prominent red circle is drawn on the map, highlighting a specific area of interest in the center-right portion of the image. The map is oriented horizontally, with the top of the image corresponding to the top of the page.

	2026-05-04 19:18:00
	2026-05-05 05:43:58



	2026-05-13 19:24:32
	2026-05-14 05:36:46

An aerial photograph of a rural landscape, likely a farm or agricultural area. A red circle is drawn on the map, highlighting a specific region in the center. The map shows various features including roads, fields, and possibly some buildings or structures. The red circle is centered over a cluster of fields and a road intersection.

	2026-05-16 19:26:42
	2026-05-17 05:34:40
	