# Meridian Solar Farm

EN010169

**Volume 6**

**Environmental Statement**

**6.3 ES Appendix 13-2: Baseline Noise Survey Report**

APFP Regulation 5(2)(a)

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

**March 2026**

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# 1. Introduction

1.1.1. This Appendix presents the methodology and results of the baseline noise monitoring carried out to inform the construction and operational noise assessments. Noise monitoring locations were determined based on the Scheme location with respect to nearby noise sensitive receptors.

1.1.2. A number of other factors were also taken into consideration when identifying these locations, including:

- Safety of the surveyors;
- Security of monitoring equipment; and
- Access arrangements.

# 2. Noise Monitoring Methodology

2.1.1. Baseline noise monitoring was carried out to establish the existing noise climate in the area surrounding the Scheme. The monitoring procedures followed guidance from BS 7445-1[1] and BS 4142[2]. Acoustic field calibrators were applied to each instrument at the start and end of each measurement. No significant drift (± 0.3 dB) in calibration was noted.

## 2.2. Attended Monitoring

2.2.1. Attended measurements were carried out using a calibrated Class 1 sound level meter mounted on a tripod approximately 1.5 m above local ground level at a location representative of the acoustic environment at relevant receptors. Attended measurements were undertaken over a typical three-hour period between 10:00 and 17:00, using shorter sampling intervals (e.g. 15 minutes) within each hour where these were considered representative of the overall hourly conditions.

2.2.2. Each attended sound level meter microphone was equipped with appropriate all-weather windscreens. All noise measurements included $L_{Aeq,T}$, $L_{A90,T}$ and $L_{AFmax}$ sound level indicators.

## 2.3. Unattended Monitoring

2.3.1. All unattended measurements were carried out using a calibrated Class 1 sound level meter, mounted approximately 1.5 m above local ground level at a location representative of the acoustic environment at relevant receptors. Unattended measurements were each undertaken for a period of one week.

2.3.2. Each unattended sound level meter was housed within a weatherproof box with batteries to power the instrument for the full measurement duration. Appropriate outdoor all-weather windscreens were used on all microphones. All noise measurements included $L_{Aeq,T}$, $L_{A90,T}$ and $L_{AFmax}$ sound level indicators.

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1 British Standards Institute (2003); BS 7445 – Description and environment of environmental noise – Part 1: Guide to quantities and procedures, BSi, London.

2 British Standards Institute (2014 with 2019 amendments); BS 4142 – Methods for rating and assessing industrial and commercial sound, BSi, London.

# 3. Meteorological Conditions

3.1.1. A weather station was set up at the ML24 noise monitoring location and left in situ for a period of four weeks. Measurements included windspeed (m/s), wind direction (°), rainfall (mm) and temperature (°C). Where noise measurements have been undertaken in periods with windspeeds higher than 5 m/s and/or rain intensity higher than 1 mm/h, the data has been excluded from analysis. Further details of the exclusion periods are presented in Section 5.

# 4. Survey Results

4.1.1. The baseline noise monitoring undertaken for the Scheme is summarised in Table 4-1, including any reasoning for data that has been excluded from the overall averaging of results at locations where adverse weather and atypical (anomalous spikes in noise data that are likely due to activity in the immediate area to the noise monitor) were experienced. Full baseline noise monitoring results of attended measurements are presented in Table 4-2 to Table 4-6. Unattended measurements are presented in Table 4-7 to Table 4-32.

**Table 4-1: Noise Monitoring Summary**

| Location ID | Survey Type | Start Date | End Date | Co-ordinates | Excluded Data Reason |
|---|---|---|---|---|---|
| ML01 | Unattended | 23/07/25 | 30/07/25 | 52.701317, -0.153106 | Meteorological conditions and potential harvesting activities |
| ML02 | Unattended | 06/02/25 | 12/02/25 | 52.712647, -0.15467361 | No data excluded |
| ML03 | Unattended | 16/07/25 | 23/07/25 | 52.699391, -0.133051 | Meteorological conditions |
| ML04 | Unattended | 07/02/25 | 13/02/25 | 52.71014, -0.12790516 | No data excluded |
| ML05 | Unattended | 09/07/25 | 16/07/25 | 52.727098, -0.129217 | Meteorological conditions |
| ML06 | Attended | 07/02/25 | 07/02/25 | 52.714653, -0.11562601 | No data excluded |

| Location ID | Survey Type | Start Date | End Date | Co-ordinates | Excluded Data Reason |
|---|---|---|---|---|---|
| ML07 | Unattended | 13/02/25 | 19/02/25 | 52.712591, -0.1021412 | No data excluded |
| ML08 | Unattended | 23/07/25 | 30/07/25 | 52.705035, -0.087375 | Meteorological conditions |
| ML09 | Unattended | 16/07/25 | 23/07/25 | 52.692393, -0.06907425 | Meteorological conditions |
| ML10 | Unattended | 13/02/25 | 19/02/25 | 52.702915, -0.07254973 | No data excluded |
| ML11 | Attended | 14/02/25 | 14/02/25 | 52.702749, -0.05055025 | No data excluded |
| ML12 | Unattended | 23/07/25 | 30/07/25 | 52.706299, -0.045305 | Meteorological conditions |
| ML13 | Unattended | 23/07/25 | 30/07/25 | 52.701929, -0.031462 | Meteorological conditions and potential harvesting activities |
| ML14 | Unattended | 20/02/25 | 26/02/25 | 52.698838, -0.02081930 | No data excluded |
| ML15 | Attended | 27/02/25 | 27/02/25 | 52.698284, -0.01267310 | No data excluded |
| ML16 | Unattended | 30/07/25 | 06/08/25 | 52.724028, -0.011584 | Meteorological conditions |
| ML17 | Unattended | 20/02/25 | 26/02/25 | 52.718541, -0.00308185 | No data excluded |
| ML18 | Attended | 27/02/25 | 27/02/25 | 52.725153, 0.013783872 | No data excluded |
| ML19 | Unattended | 23/07/25 | 30/07/25 | 52.729623, 0.008078 | Meteorological conditions and potential harvesting activities |

| Location ID | Survey Type | Start Date | End Date | Co-ordinates | Excluded Data Reason |
|---|---|---|---|---|---|
| ML20 | Attended | 27/02/25 | 27/02/25 | 52.733911, 0.021336973 | No data excluded |
| ML21 | Unattended | 16/07/25 | 23/07/25 | 52.745242, -0.11123993 | Meteorological conditions |
| ML22 | Unattended | 16/07/25 | 23/07/25 | 52.763302, -0.093767 | Meteorological conditions |
| ML23 | Unattended | 09/07/25 | 16/07/25 | 52.778348, -0.086406 | Meteorological conditions and potential harvesting activities |
| ML24 | Unattended | 16/07/25 | 23/07/25 | 52.786577, -0.091151 | Meteorological conditions |
| ML25 | Unattended | 09/07/25 | 16/07/25 | 52.789367, -0.099502 | Meteorological conditions and potential harvesting activities |
| ML26 | Unattended | 09/07/25 | 16/07/25 | 52.80304, -0.09676672 | Meteorological conditions and potential harvesting activities |
| ML27 | Unattended | 09/07/25 | 16/07/25 | 52.804696, -0.108439 | Meteorological conditions and potential harvesting activities |
| ML28 | Unattended | 23/07/25 | 30/07/25 | 52.817175, -0.09107910 | Meteorological conditions |
| ADD01 | Unattended | 16/07/25 | 23/07/25 | 52.707354, -0.064801 | Meteorological conditions |
| ADD02 | Unattended | 30/07/25 | 06/08/25 | 52.705752, -0.036494 | Meteorological conditions |
| ADD03 | Unattended | 30/07/25 | 06/08/25 | 52.711165, -0.02291712 | Meteorological conditions |

## 4.2. Attended Monitoring Results

### Table 4-2: Attended Noise Monitoring Results – ML06

| Date and Time | Daytime (07:00 – 23:00) | | |
|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 07/02/25 12:00 | 67 | 54 | 86 |
| 07/02/25 13:00 | 66 | 53 | 86 |
| 07/02/25 14:00 | 66 | 54 | 87 |
| **Arithmetic Average** | **67** | **54** | **86** |

### Table 4-3: Attended Noise Monitoring Results – ML11

| Date and Time | Daytime (07:00 – 23:00) | | |
|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 14/02/25 14:00 | 56 | 39 | 77 |
| 14/02/25 15:00 | 59 | 41 | 82 |
| 14/02/25 16:00 | 57 | 38 | 80 |
| **Arithmetic Average** | **57** | **39** | **80** |

### Table 4-4: Attended Noise Monitoring Results – ML15

| Date and Time | Daytime (07:00 – 23:00) | | |
|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 27/02/25 11:35 | 59 | 45 | 75 |
| 27/02/25 12:02 | 50 | 41 | 70 |
| 27/02/25 13:17 | 55 | 39 | 79 |
| **Arithmetic Average** | **55** | **42** | **75** |

### Table 4-5: Attended Noise Monitoring Results – ML18

| Date and Time | Daytime (07:00 – 23:00) | | |
|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 27/02/25 11:30 | 59 | 45 | 80 |
| 27/02/25 12:31 | 56 | 40 | 81 |

| Date and Time | Daytime (07:00 – 23:00) | | |
|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 27/02/25 13:30 | 56 | 39 | 79 |
| **Arithmetic Average** | **57** | **42** | **80** |

**Table 4-6: Attended Noise Monitoring Results – ML20**

| Date and Time | Daytime (07:00 – 23:00) | | |
|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 27/02/25 12:00 | 57 | 47 | 81 |
| 27/02/25 13:02 | 66 | 50 | 86 |
| 27/02/25 14:00 | 55 | 43 | 79 |
| **Arithmetic Average** | **59** | **47** | **82** |

## 4.3. Unattended Monitoring Results

4.3.1. Time history plots of unattended noise monitoring data, including exclusions are presented in Section 5. The total $L_{A90,T}$ for daytime and night-time periods has been statistically derived from the histogram plots presented in Section 6.

**Table 4-7: Unattended Noise Monitoring Results – ML01**

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 23/07/25 | 42 | 27 | 80 | 42 | 28 | 82 |
| 24/07/25 | 48 | 36 | 86 | 37 | 25 | 75 |
| 25/07/25 | 51 | 32 | 82 | 32 | 25 | 62 |
| 26/07/25 | 47 | 28 | 84 | 32 | 24 | 56 |
| 27/07/25 | 47 | 30 | 82 | 32 | 24 | 73 |
| 28/07/25 | 49 | 34 | 83 | 36 | 27 | 71 |
| 29/07/25 | 51 | 29 | 88 | 35 | 25 | 72 |
| 30/07/25 | 50 | 29 | 82 | - | - | - |
| **Total** | **48*** | **29**** | **83*** | **35*** | **21**** | **70*** |

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| **Arithmetic average*<br>***Statistically derived $L_{A90,T}$ (see Section 6)* | | | | | | |

### Table 4-8: Unattended Noise Monitoring Results – ML02

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 06/02/25 | 56 | 42 | 91 | 41 | 39 | 57 |
| 07/02/25 | 46 | 43 | 84 | 40 | 38 | 58 |
| 08/02/25 | 47 | 40 | 98 | 39 | 37 | 62 |
| 09/02/25 | 47 | 42 | 83 | 43 | 40 | 70 |
| 10/02/25 | 49 | 42 | 85 | 40 | 38 | 64 |
| 11/02/25 | 52 | 40 | 86 | 39 | 37 | 60 |
| 12/02/25 | 56 | 39 | 89 | 39 | 37 | 58 |
| 13/02/25 | 58 | 41 | 96 | - | - | - |
| **Total** | **51*** | **39**** | **89*** | **40*** | **36**** | **61*** |
| **Arithmetic average*<br>***Statistically derived $L_{A90,T}$ (see Section 6)* | | | | | | |

### Table 4-9: Unattended Noise Monitoring Results – ML03

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 16/07/25 | 68 | 48 | 103 | 61 | 45 | 96 |
| 17/07/25 | 68 | 48 | 101 | 60 | 43 | 97 |
| 18/07/25 | 67 | 45 | 105 | 59 | 43 | 100 |
| 19/07/25 | 65 | 47 | 94 | 58 | 43 | 93 |
| 20/07/25 | 65 | 50 | 94 | 61 | 47 | 89 |
| 21/07/25 | 67 | 46 | 102 | 60 | 47 | 87 |
| 22/07/25 | 68 | 49 | 106 | 60 | 48 | 90 |

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 23/07/25 | 66 | 49 | 92 | - | - | - |
| **Total** | **67*** | **47**** | **99*** | **60*** | **43**** | **93*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-10: Unattended Noise Monitoring Results – ML04

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 07/02/25 | 73 | 59 | 89 | 69 | 43 | 83 |
| 08/02/25 | 73 | 59 | 95 | 69 | 45 | 86 |
| 09/02/25 | 73 | 57 | 94 | 69 | 51 | 93 |
| 10/02/25 | 74 | 60 | 88 | 71 | 49 | 85 |
| 11/02/25 | 74 | 61 | 91 | 70 | 45 | 88 |
| 12/02/25 | 74 | 61 | 91 | 70 | 44 | 87 |
| 13/02/25 | 75 | 63 | 103 | - | - | - |
| **Total** | **74*** | **60**** | **93*** | **69*** | **40**** | **87*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-11: Unattended Noise Monitoring Results – ML05

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 09/07/25 | 66 | 36 | 95 | 59 | 36 | 91 |
| 10/07/25 | 67 | 40 | 105 | 60 | 40 | 91 |
| 11/07/25 | 67 | 40 | 104 | 59 | 39 | 99 |
| 12/07/25 | 67 | 44 | 106 | 56 | 33 | 88 |
| 13/07/25 | 65 | 42 | 103 | 60 | 39 | 90 |
| 14/07/25 | 67 | 43 | 99 | 60 | 36 | 93 |

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 15/07/25 | 67 | 46 | 91 | 59 | 35 | 90 |
| 16/07/25 | 67 | 42 | 102 | - | - | - |
| **Total** | **67*** | **41**** | **101*** | **59*** | **33**** | **92*** |
| **Arithmetic average*<br>***Statistically derived $L_{A90,T}$ (see Section 6)* | | | | | | |

### Table 4-12: Unattended Noise Monitoring Results – ML07

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 13/02/25 | 57 | 25 | 96 | 45 | 20 | 89 |
| 14/02/25 | 56 | 36 | 95 | 38 | 33 | 56 |
| 15/02/25 | 54 | 38 | 91 | 45 | 24 | 86 |
| 16/02/25 | 53 | 28 | 90 | 46 | 25 | 89 |
| 17/02/25 | 58 | 31 | 93 | 47 | 26 | 89 |
| 18/02/25 | 59 | 34 | 94 | 47 | 32 | 90 |
| 19/02/25 | 56 | 40 | 95 | 48 | 42 | 88 |
| 20/02/25 | 61 | 51 | 96 | - | - | - |
| **Total** | **57*** | **35**** | **94*** | **45*** | **21**** | **84*** |
| **Arithmetic average*<br>***Statistically derived $L_{A90,T}$ (see Section 6)* | | | | | | |

### Table 4-13: Unattended Noise Monitoring Results – ML08

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 23/07/25 | 53 | 28 | 85 | 51 | 26 | 87 |
| 24/07/25 | 55 | 36 | 90 | 50 | 24 | 86 |
| 25/07/25 | 58 | 36 | 94 | 50 | 25 | 88 |
| 26/07/25 | 54 | 28 | 86 | 48 | 25 | 82 |

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 27/07/25 | 56 | 32 | 89 | 48 | 26 | 82 |
| 28/07/25 | 55 | 34 | 90 | 46 | 25 | 81 |
| 29/07/25 | 57 | 30 | 91 | 46 | 24 | 82 |
| 30/07/25 | 56 | 33 | 89 | - | - | - |
| **Total** | **55*** | **29**** | **89*** | **48*** | **21**** | **84*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-14: Unattended Noise Monitoring Results – ML09

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 16/07/25 | 65 | 39 | 93 | 61 | 30 | 92 |
| 17/07/25 | 65 | 40 | 91 | 61 | 30 | 90 |
| 18/07/25 | 65 | 39 | 94 | 58 | 30 | 88 |
| 19/07/25 | 65 | 39 | 97 | 58 | 31 | 90 |
| 20/07/25 | 65 | 40 | 96 | 61 | 33 | 89 |
| 21/07/25 | 67 | 41 | 101 | 61 | 31 | 90 |
| 22/07/25 | 65 | 41 | 96 | 61 | 32 | 91 |
| 23/07/25 | 66 | 42 | 97 | - | - | - |
| **Total** | **65*** | **38**** | **96*** | **60*** | **26**** | **90*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-15: Unattended Noise Monitoring Results – ML10

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 13/02/25 | 51 | 27 | 99 | 29 | 22 | 47 |
| 14/02/25 | 40 | 35 | 75 | 36 | 31 | 61 |

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 15/02/25 | 42 | 37 | 69 | 30 | 26 | 50 |
| 16/02/25 | 34 | 29 | 61 | 31 | 25 | 54 |
| 17/02/25 | 54 | 32 | 90 | 35 | 27 | 66 |
| 18/02/25 | 58 | 35 | 91 | 35 | 31 | 61 |
| 19/02/25 | 53 | 39 | 85 | 43 | 39 | 67 |
| 20/02/25 | 51 | 45 | 84 | - | - | - |
| **Total** | **48*** | **34**** | **82*** | **34*** | **20**** | **58*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-16: Unattended Noise Monitoring Results – ML12

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 23/07/25 | 49 | 29 | 87 | 46 | 27 | 85 |
| 24/07/25 | 52 | 36 | 88 | 44 | 25 | 82 |
| 25/07/25 | 52 | 33 | 91 | 35 | 23 | 76 |
| 26/07/25 | 48 | 28 | 86 | 38 | 23 | 77 |
| 27/07/25 | 50 | 32 | 86 | 44 | 24 | 79 |
| 28/07/25 | 53 | 36 | 97 | 42 | 23 | 81 |
| 29/07/25 | 55 | 31 | 93 | 42 | 25 | 82 |
| 30/07/25 | 53 | 35 | 87 | - | - | - |
| **Total** | **51*** | **28**** | **89*** | **41*** | **20**** | **80*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-17: Unattended Noise Monitoring Results – ML13

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 23/07/25 | 55 | 32 | 85 | 48 | 24 | 80 |
| 24/07/25 | 59 | 38 | 97 | 49 | 22 | 83 |
| 25/07/25 | 57 | 35 | 95 | 48 | 22 | 85 |
| 26/07/25 | 56 | 31 | 89 | 47 | 22 | 81 |
| 27/07/25 | 54 | 33 | 91 | 48 | 22 | 82 |
| 28/07/25 | 57 | 38 | 93 | 48 | 24 | 80 |
| 29/07/25 | 58 | 32 | 94 | 49 | 22 | 84 |
| 30/07/25 | 57 | 37 | 88 | - | - | - |
| **Total** | **57*** | **33**** | **92*** | **48*** | **18**** | **82*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-18: Unattended Noise Monitoring Results – ML14

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 20/02/25 | 56 | 39 | 90 | 44 | 35 | 67 |
| 21/02/25 | 57 | 44 | 89 | 37 | 29 | 58 |
| 22/02/25 | 42 | 35 | 85 | 41 | 30 | 65 |
| 23/02/25 | 57 | 46 | 77 | 47 | 38 | 72 |
| 24/02/25 | 62 | 39 | 100 | 37 | 29 | 61 |
| 25/02/25 | 54 | 37 | 90 | 37 | 27 | 66 |
| 26/02/25 | 52 | 39 | 86 | 40 | 31 | 72 |
| 27/02/25 | 47 | 44 | 70 | - | - | - |
| **Total** | **53*** | **37**** | **86*** | **40*** | **24**** | **66*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-19: Unattended Noise Monitoring Results – ML16

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 30/07/25 | 63 | 40 | 88 | 59 | 25 | 84 |
| 31/07/25 | 64 | 39 | 91 | 59 | 26 | 99 |
| 01/08/25 | 65 | 40 | 96 | 57 | 25 | 84 |
| 02/08/25 | 64 | 38 | 93 | 56 | 24 | 87 |
| 03/08/25 | 62 | 38 | 88 | 57 | 23 | 85 |
| 04/08/25 | 63 | 40 | 87 | 56 | 26 | 84 |
| 05/08/25 | 63 | 39 | 84 | 60 | 26 | 87 |
| 06/08/25 | 65 | 40 | 92 | - | - | - |
| **Total** | **64*** | **37**** | **90*** | **58*** | **20**** | **87*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-20: Unattended Noise Monitoring Results – ML17

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 20/02/25 | 58 | 37 | 94 | 43 | 34 | 76 |
| 21/02/25 | 56 | 45 | 85 | 39 | 28 | 78 |
| 22/02/25 | 49 | 37 | 82 | 38 | 28 | 65 |
| 23/02/25 | 54 | 45 | 82 | 45 | 37 | 79 |
| 24/02/25 | 63 | 39 | 98 | 41 | 28 | 77 |
| 25/02/25 | 56 | 39 | 92 | 42 | 27 | 77 |
| 26/02/25 | 54 | 41 | 93 | 42 | 32 | 77 |
| 27/02/25 | 58 | 45 | 90 | - | - | - |
| **Total** | **56*** | **38**** | **89*** | **41*** | **24**** | **76*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-21: Unattended Noise Monitoring Results – ML19

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 23/07/25 | 43 | 28 | 77 | 31 | 25 | 57 |
| 24/07/25 | 44 | 28 | 77 | 37 | 24 | 76 |
| 25/07/25 | 52 | 32 | 92 | 33 | 24 | 69 |
| 26/07/25 | 47 | 28 | 91 | 34 | 24 | 72 |
| 27/07/25 | 45 | 32 | 76 | 37 | 24 | 73 |
| 28/07/25 | 47 | 34 | 86 | 33 | 23 | 69 |
| 29/07/25 | 50 | 31 | 88 | 37 | 23 | 73 |
| 30/07/25 | 49 | 32 | 87 | - | - | - |
| **Total** | **47*** | **27**** | **84*** | **35*** | **20**** | **70*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-22: Unattended Noise Monitoring Results – ML21

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 16/07/25 | 66 | 37 | 96 | 59 | 32 | 86 |
| 17/07/25 | 66 | 38 | 94 | 60 | 35 | 99 |
| 18/07/25 | 65 | 40 | 98 | 57 | 31 | 92 |
| 19/07/25 | 65 | 37 | 90 | 56 | 32 | 86 |
| 20/07/25 | 64 | 39 | 90 | 59 | 36 | 87 |
| 21/07/25 | 65 | 38 | 91 | 57 | 41 | 85 |
| 22/07/25 | 66 | 44 | 95 | 59 | 38 | 86 |
| 23/07/25 | 70 | 43 | 97 | - | - | - |
| **Total** | **66*** | **37**** | **94*** | **58*** | **26**** | **89*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-23: Unattended Noise Monitoring Results – ML22

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 16/07/25 | 54 | 28 | 86 | 44 | 29 | 79 |
| 17/07/25 | 54 | 30 | 90 | 42 | 31 | 80 |
| 18/07/25 | 54 | 29 | 92 | 45 | 29 | 80 |
| 19/07/25 | 49 | 26 | 87 | 40 | 28 | 80 |
| 20/07/25 | 49 | 31 | 85 | 50 | 32 | 95 |
| 21/07/25 | 55 | 27 | 94 | 46 | 33 | 81 |
| 22/07/25 | 59 | 33 | 97 | 43 | 31 | 79 |
| 23/07/25 | 61 | 34 | 91 | - | - | - |
| **Total** | **54*** | **28**** | **90*** | **44*** | **28**** | **82*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-24: Unattended Noise Monitoring Results – ML23

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 09/07/25 | 69 | 38 | 98 | 63 | 29 | 96 |
| 10/07/25 | 70 | 37 | 94 | 63 | 31 | 96 |
| 11/07/25 | 69 | 37 | 98 | 61 | 31 | 96 |
| 12/07/25 | 68 | 40 | 101 | 60 | 29 | 93 |
| 13/07/25 | 67 | 36 | 94 | 63 | 30 | 91 |
| 14/07/25 | 66 | 39 | 92 | 54 | 33 | 92 |
| 15/07/25 | 68 | 42 | 95 | 56 | 37 | 92 |
| 16/07/25 | 70 | 41 | 93 | - | - | - |
| **Total** | **68*** | **38**** | **96*** | **60*** | **26**** | **94*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-25: Unattended Noise Monitoring Results – ML24

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 16/07/25 | 50 | 32 | 84 | 45 | 34 | 79 |
| 17/07/25 | 51 | 33 | 88 | 45 | 34 | 82 |
| 18/07/25 | 50 | 34 | 85 | 42 | 31 | 76 |
| 19/07/25 | 51 | 30 | 85 | 41 | 31 | 80 |
| 20/07/25 | 49 | 34 | 83 | 43 | 32 | 79 |
| 21/07/25 | 51 | 31 | 84 | 46 | 33 | 82 |
| 22/07/25 | 56 | 38 | 93 | 45 | 35 | 80 |
| 23/07/25 | 54 | 38 | 84 | - | - | - |
| **Total** | **51*** | **32**** | **86*** | **44*** | **30**** | **80*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-26: Unattended Noise Monitoring Results – ML25

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 09/07/25 | 55 | 35 | 80 | 50 | 33 | 81 |
| 10/07/25 | 58 | 33 | 87 | 47 | 32 | 83 |
| 11/07/25 | 57 | 36 | 100 | 52 | 34 | 101 |
| 12/07/25 | 55 | 37 | 91 | 49 | 31 | 91 |
| 13/07/25 | 55 | 34 | 90 | 50 | 31 | 85 |
| 14/07/25 | 56 | 37 | 98 | 48 | 35 | 84 |
| 15/07/25 | 57 | 38 | 83 | 49 | 36 | 83 |
| 16/07/25 | 59 | 39 | 84 | - | - | - |
| **Total** | **56*** | **33**** | **89*** | **49*** | **29**** | **87*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-27: Unattended Noise Monitoring Results – ML26

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 09/07/25 | 63 | 45 | 88 | 58 | 37 | 87 |
| 10/07/25 | 64 | 40 | 90 | 58 | 37 | 87 |
| 11/07/25 | 64 | 42 | 90 | 57 | 36 | 87 |
| 12/07/25 | 64 | 43 | 92 | 57 | 34 | 94 |
| 13/07/25 | 63 | 40 | 97 | 56 | 33 | 85 |
| 14/07/25 | 64 | 47 | 94 | 57 | 39 | 86 |
| 15/07/25 | 65 | 48 | 92 | 57 | 41 | 85 |
| 16/07/25 | 65 | 50 | 89 | - | - | - |
| **Total** | **64*** | **40**** | **91*** | **57*** | **31**** | **87*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-28: Unattended Noise Monitoring Results – ML27

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 09/07/25 | 58 | 41 | 102 | 47 | 38 | 84 |
| 10/07/25 | 58 | 38 | 102 | 55 | 40 | 97 |
| 11/07/25 | 58 | 39 | 105 | 44 | 36 | 78 |
| 12/07/25 | 51 | 41 | 85 | 46 | 35 | 93 |
| 13/07/25 | 52 | 38 | 96 | 48 | 36 | 83 |
| 14/07/25 | 57 | 47 | 93 | 50 | 43 | 83 |
| 15/07/25 | 57 | 49 | 90 | 48 | 43 | 80 |
| 16/07/25 | 58 | 45 | 86 | - | - | - |
| **Total** | **56*** | **39**** | **95*** | **48*** | **33**** | **85*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-29: Unattended Noise Monitoring Results – ML28

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 23/07/25 | 57 | 29 | 95 | 51 | 29 | 89 |
| 24/07/25 | 56 | 33 | 92 | 48 | 28 | 89 |
| 25/07/25 | 59 | 32 | 104 | 45 | 27 | 85 |
| 26/07/25 | 54 | 31 | 94 | 44 | 29 | 82 |
| 27/07/25 | 51 | 31 | 87 | 45 | 30 | 85 |
| 28/07/25 | 57 | 32 | 99 | 52 | 28 | 92 |
| 29/07/25 | 59 | 31 | 101 | 47 | 25 | 86 |
| 30/07/25 | 58 | 33 | 97 | - | - | - |
| **Total** | **56*** | **32**** | **96*** | **47*** | **25**** | **87*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-30: Unattended Noise Monitoring Results – ADD01

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 16/07/25 | 49 | 32 | 77 | 46 | 27 | 70 |
| 17/07/25 | 52 | 31 | 84 | 42 | 25 | 68 |
| 18/07/25 | 49 | 29 | 85 | 44 | 25 | 79 |
| 19/07/25 | 50 | 31 | 78 | 45 | 25 | 82 |
| 20/07/25 | 52 | 35 | 85 | 46 | 28 | 76 |
| 21/07/25 | 52 | 31 | 90 | 46 | 30 | 73 |
| 22/07/25 | 53 | 34 | 83 | 53 | 30 | 94 |
| 23/07/25 | 54 | 39 | 85 | - | - | - |
| **Total** | **51*** | **32**** | **83*** | **46*** | **21**** | **78*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-31: Unattended Noise Monitoring Results – ADD02

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 30/07/25 | 60 | 35 | 95 | 47 | 25 | 88 |
| 31/07/25 | 60 | 31 | 99 | 45 | 24 | 90 |
| 01/08/25 | 58 | 31 | 97 | 51 | 24 | 92 |
| 02/08/25 | 56 | 31 | 94 | 46 | 26 | 87 |
| 03/08/25 | 52 | 31 | 90 | 38 | 25 | 78 |
| 04/08/25 | 56 | 32 | 93 | 48 | 28 | 90 |
| 05/08/25 | 56 | 33 | 92 | 48 | 26 | 88 |
| 06/08/25 | 61 | 33 | 93 | - | - | - |
| **Total** | **58*** | **30**** | **94*** | **46*** | **23**** | **88*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

### Table 4-32: Unattended Noise Monitoring Results – ADD03

| Date | Daytime (07:00 – 23:00) | | | Night-time (23:00 – 07:00) | | |
|---|---|---|---|---|---|---|
| | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB | $L_{Aeq,T}$ dB | $L_{A90,T}$ dB | $L_{AFmax}$, dB |
| 30/07/25 | 73 | 41 | 99 | 67 | 26 | 94 |
| 31/07/25 | 73 | 39 | 97 | 67 | 28 | 95 |
| 01/08/25 | 73 | 40 | 102 | 65 | 28 | 96 |
| 02/08/25 | 72 | 39 | 96 | 64 | 27 | 93 |
| 03/08/25 | 71 | 42 | 104 | 67 | 25 | 93 |
| 04/08/25 | 71 | 41 | 95 | 62 | 30 | 96 |
| 05/08/25 | 72 | 44 | 97 | 68 | 28 | 94 |
| 06/08/25 | 73 | 42 | 97 | - | - | - |
| **Total** | **72*** | **40**** | **98*** | **66*** | **21**** | **94*** |

**Arithmetic average*
***Statistically derived $L_{A90,T}$ (see Section 6)*

# 5. Unattended Monitoring Time History Plots

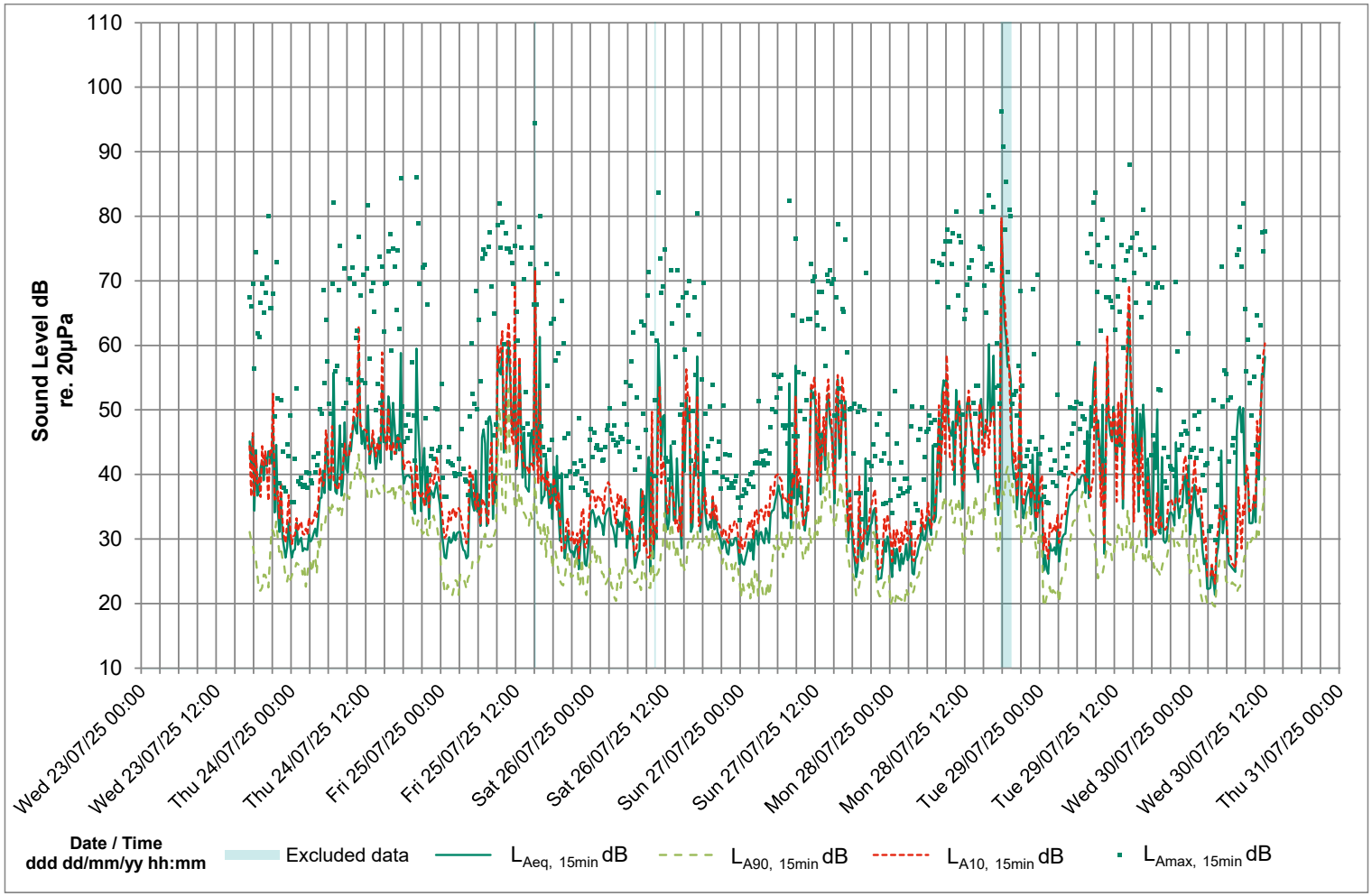


Figure 5-1: ML01 Time History Plot

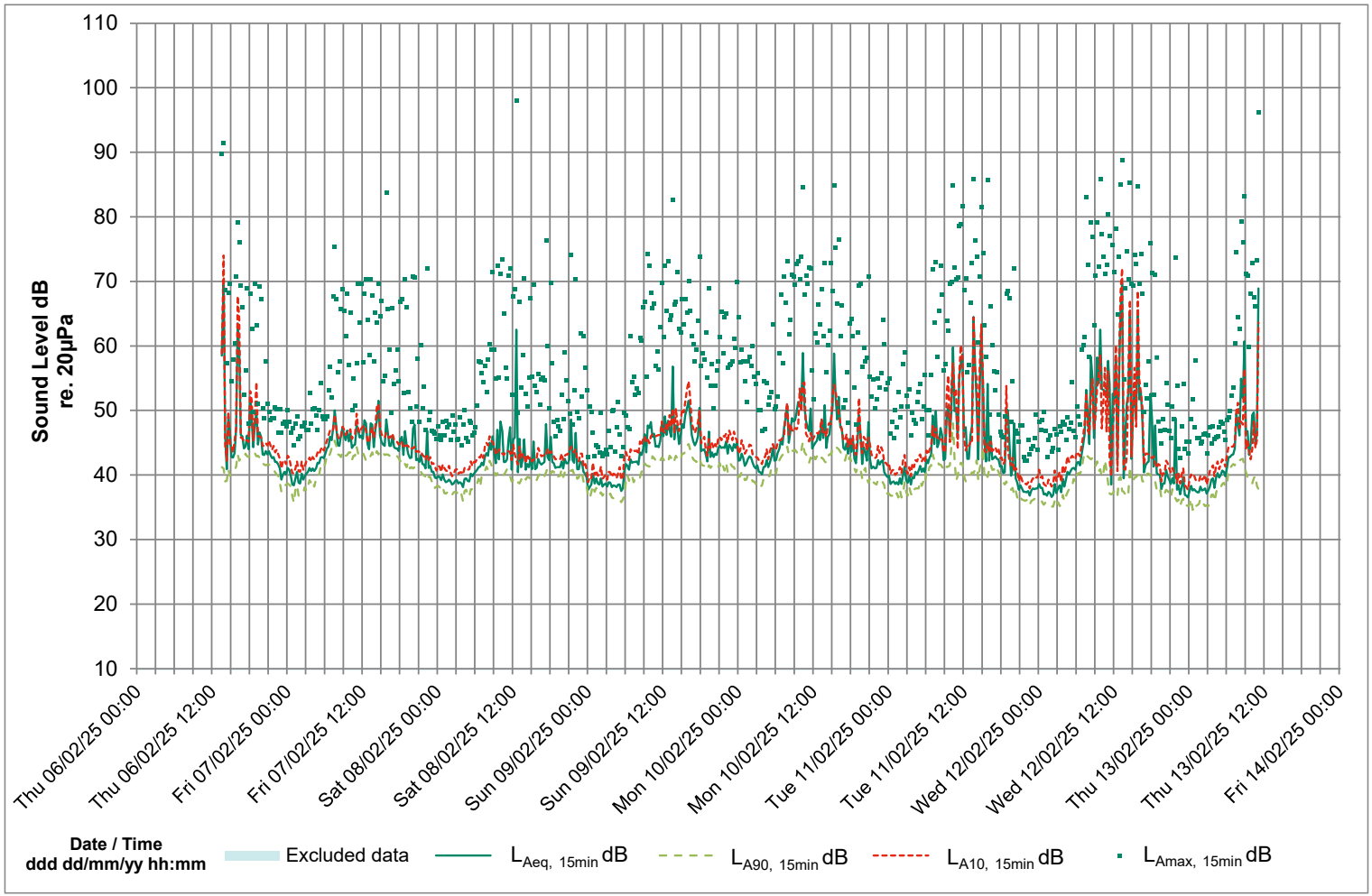


Figure 5-2: ML02 Time History Plot

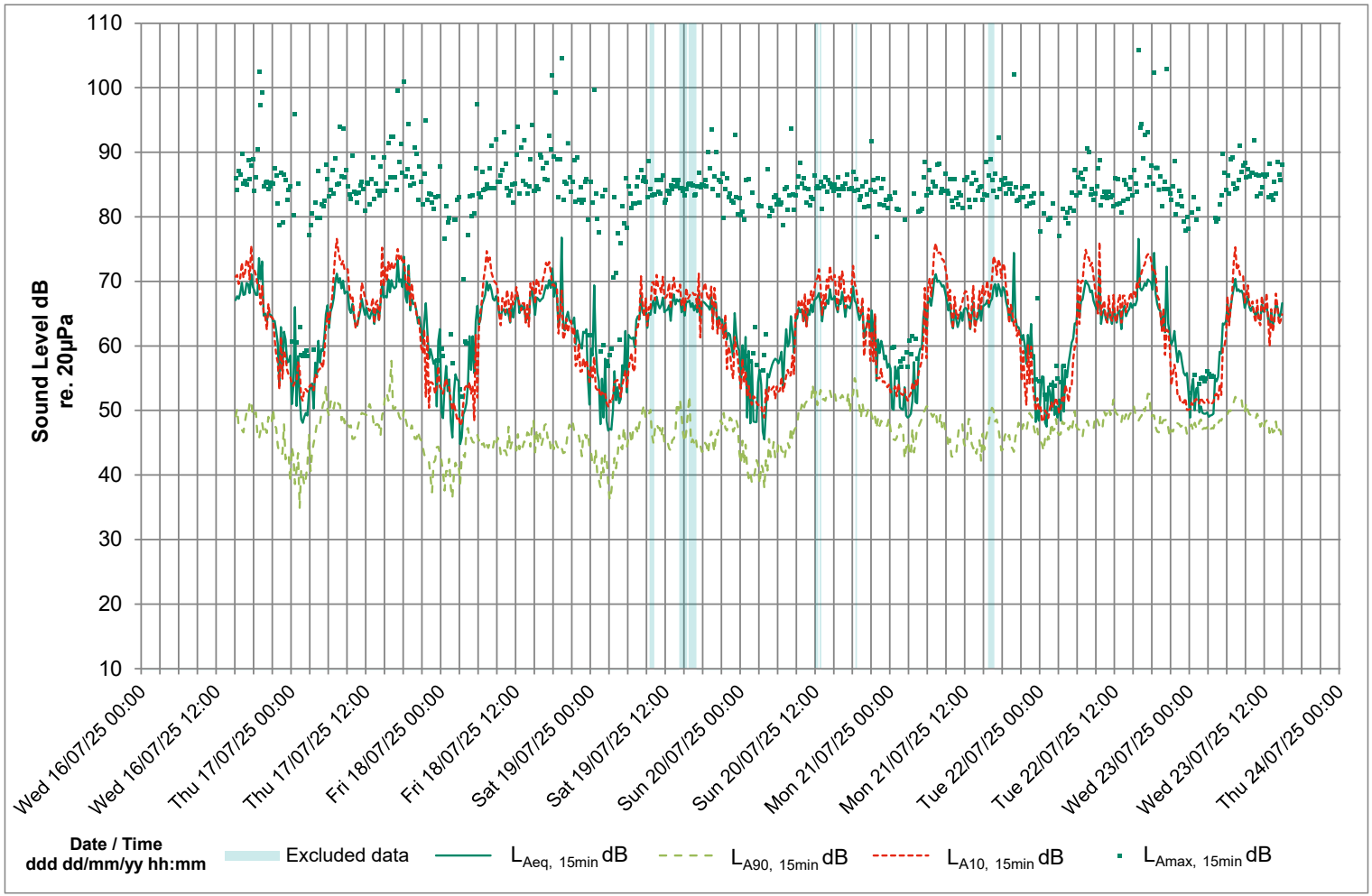


Figure 5-3: ML03 Time History Plot

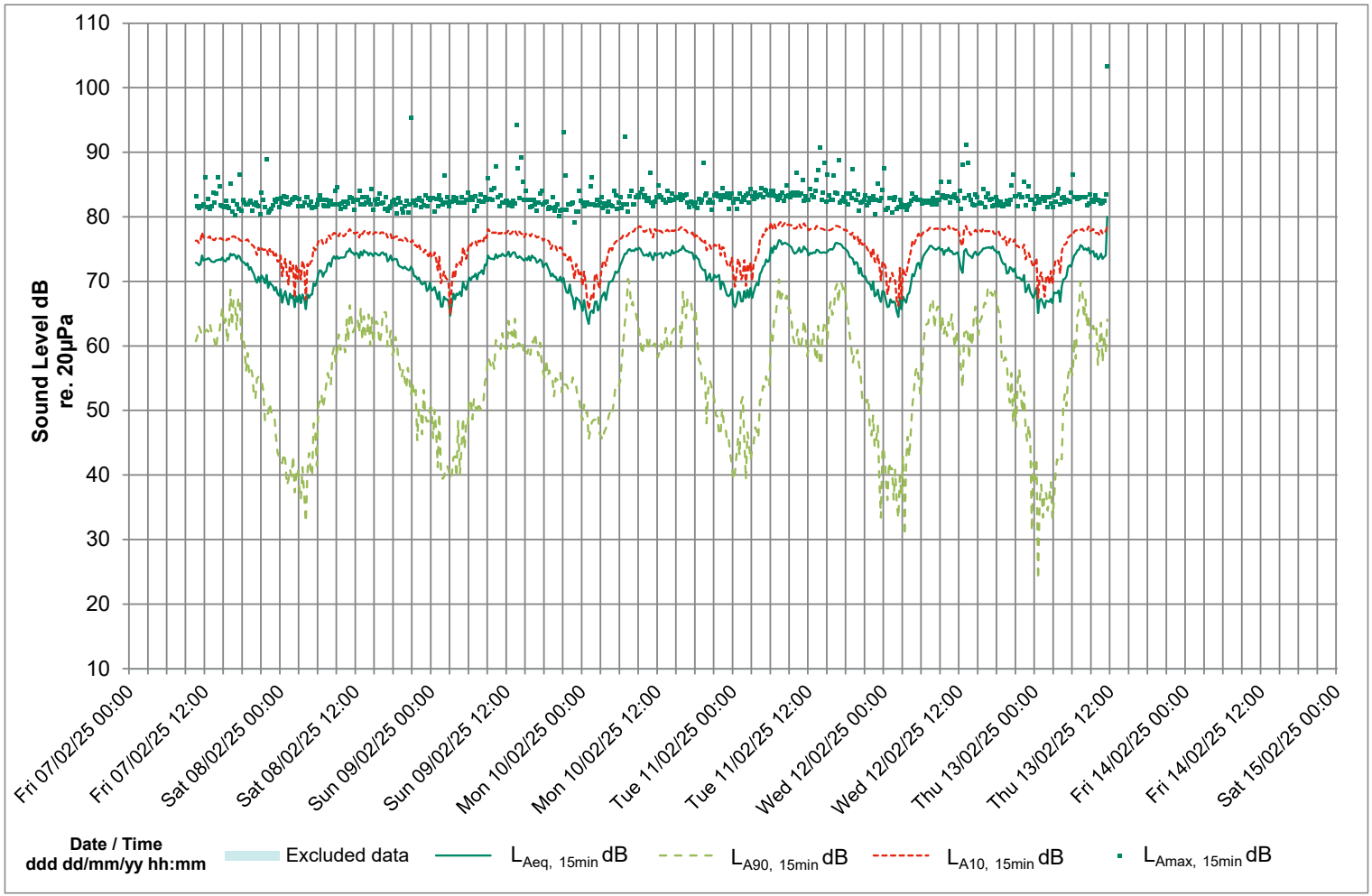


Figure 5-4: ML04 Time History Plot

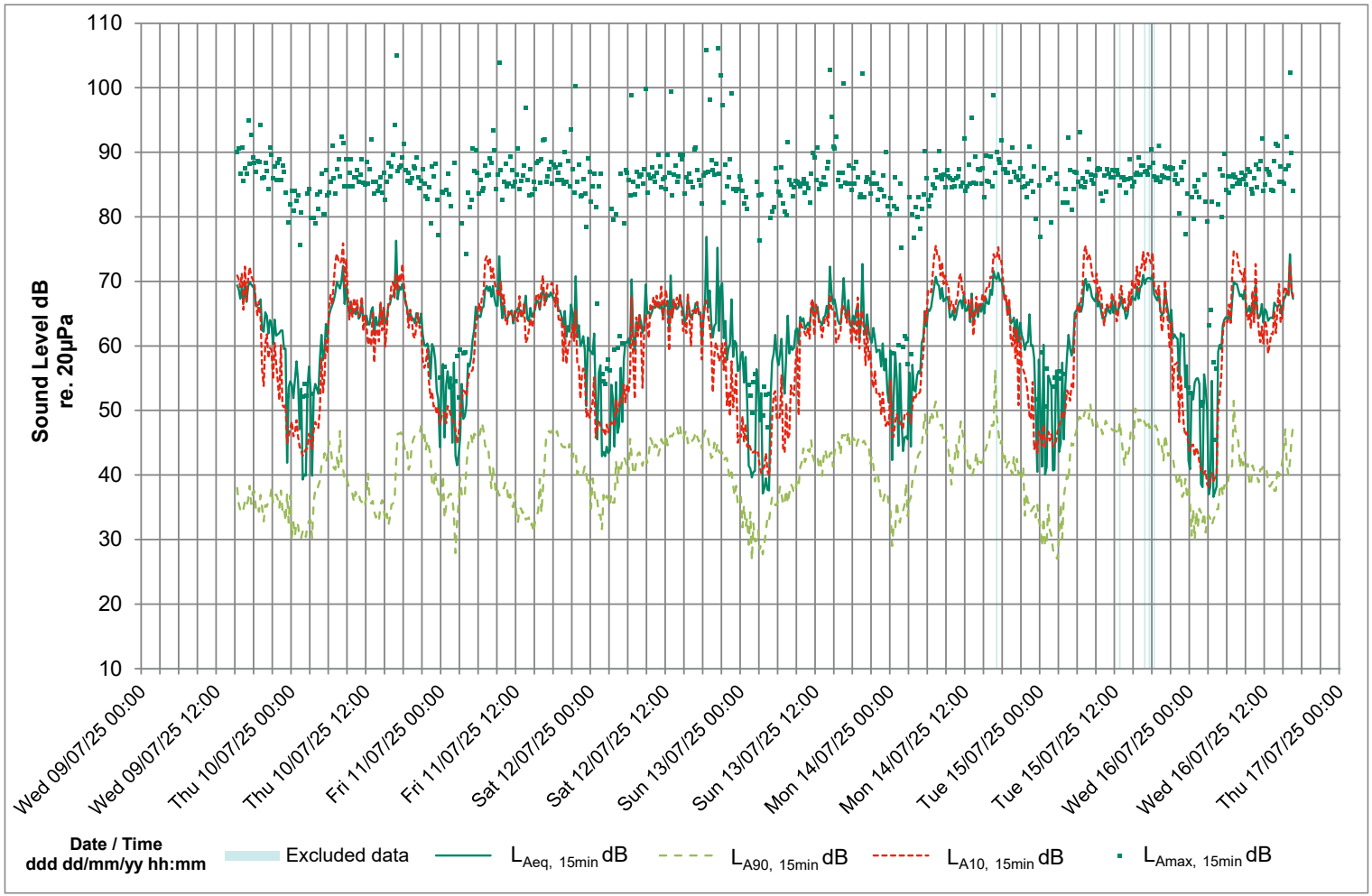


Figure 5-5: ML05 Time History Plot

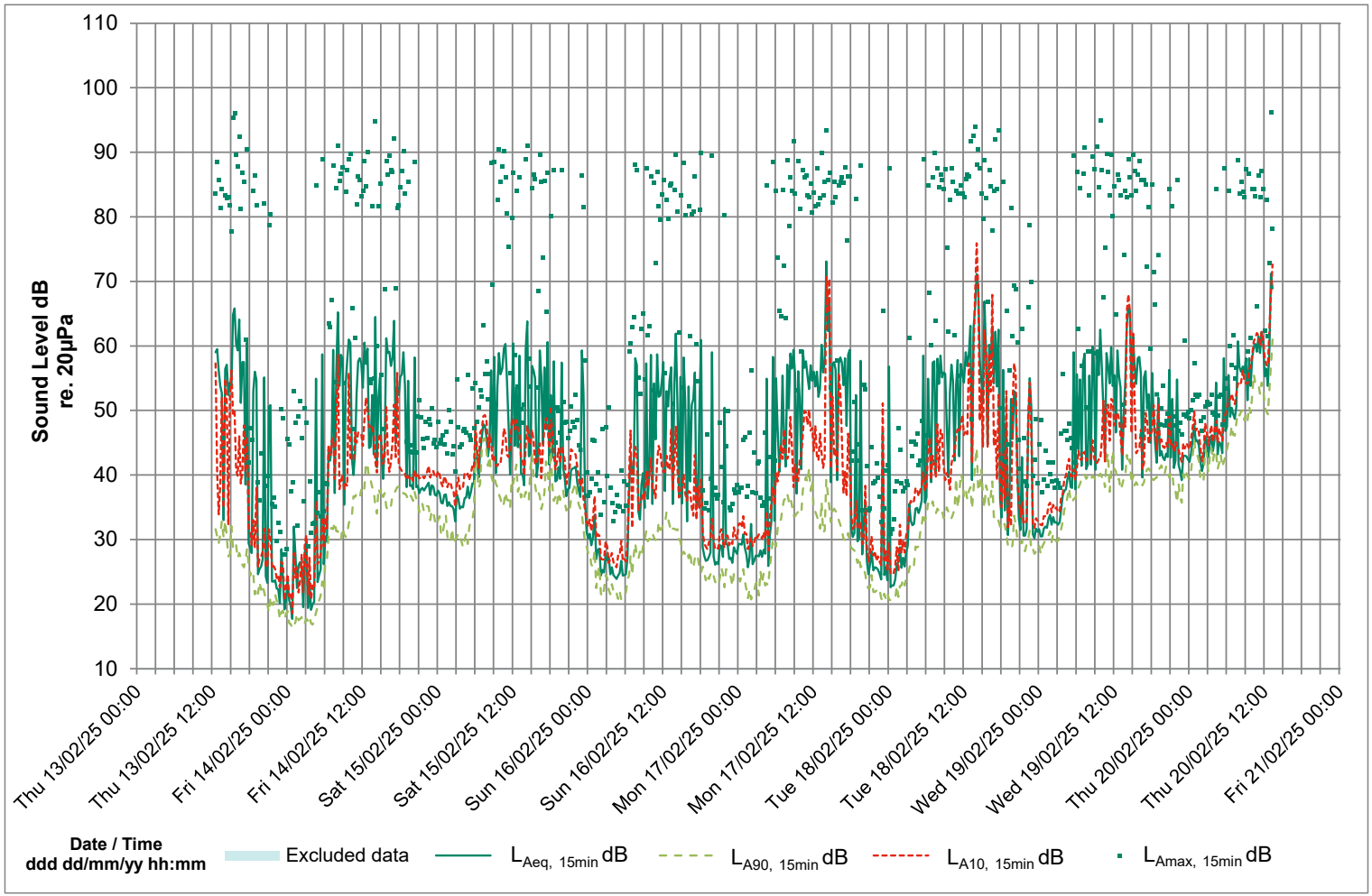


Figure 5-6: ML07 Time History Plot

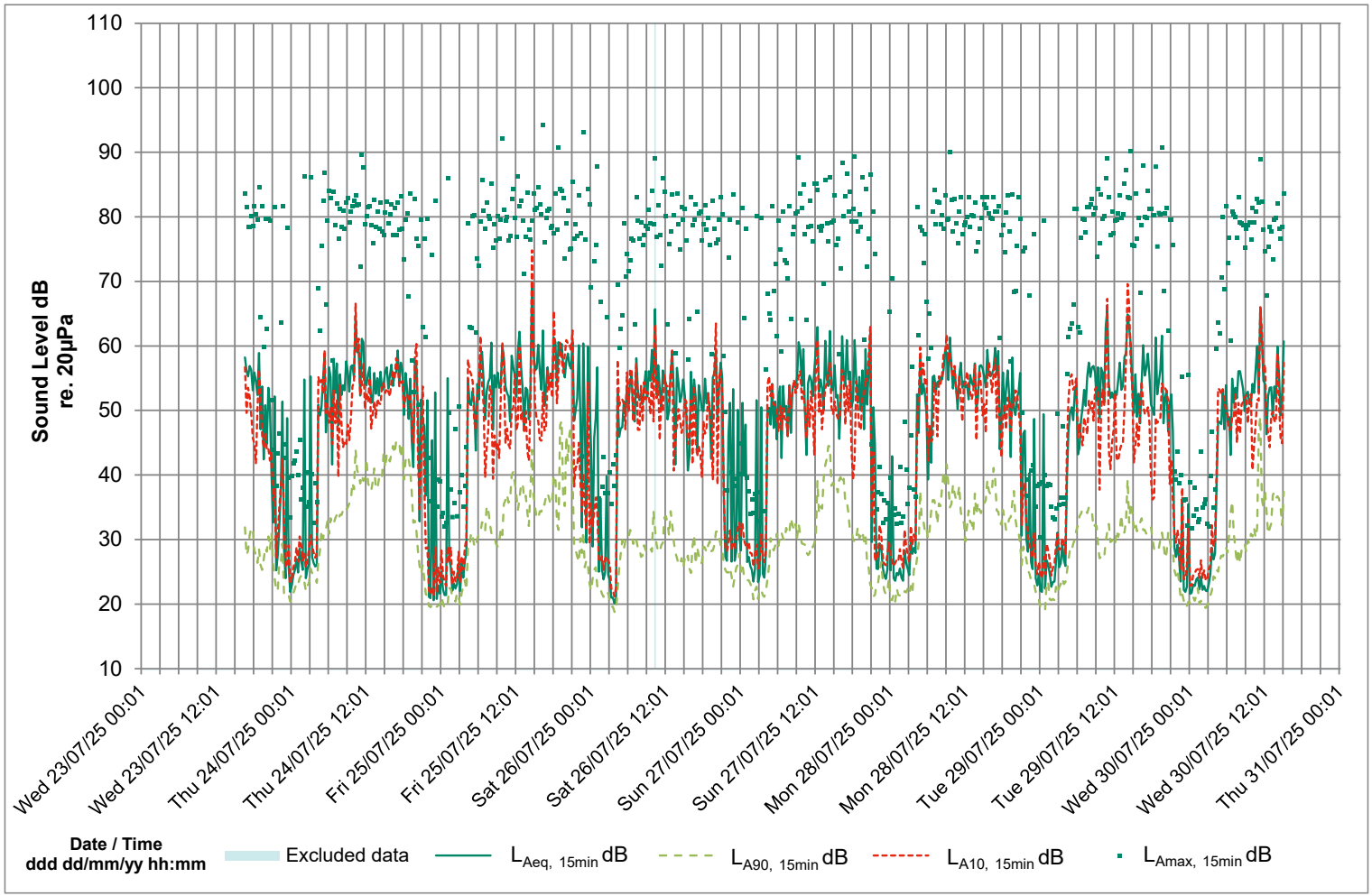


**Figure 5-7: ML08 Time History Plot**

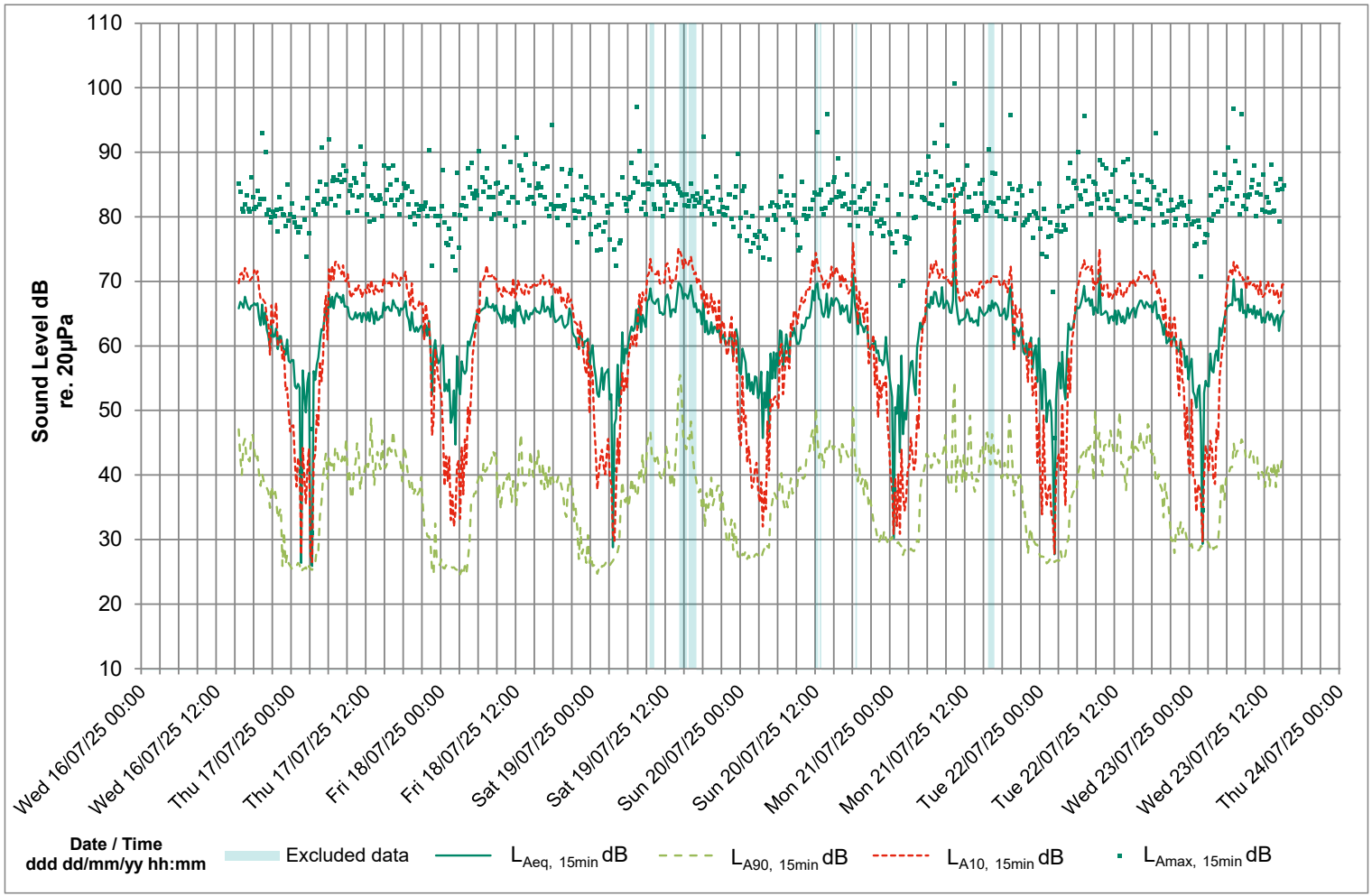


Figure 5-8: ML09 Time History Plot

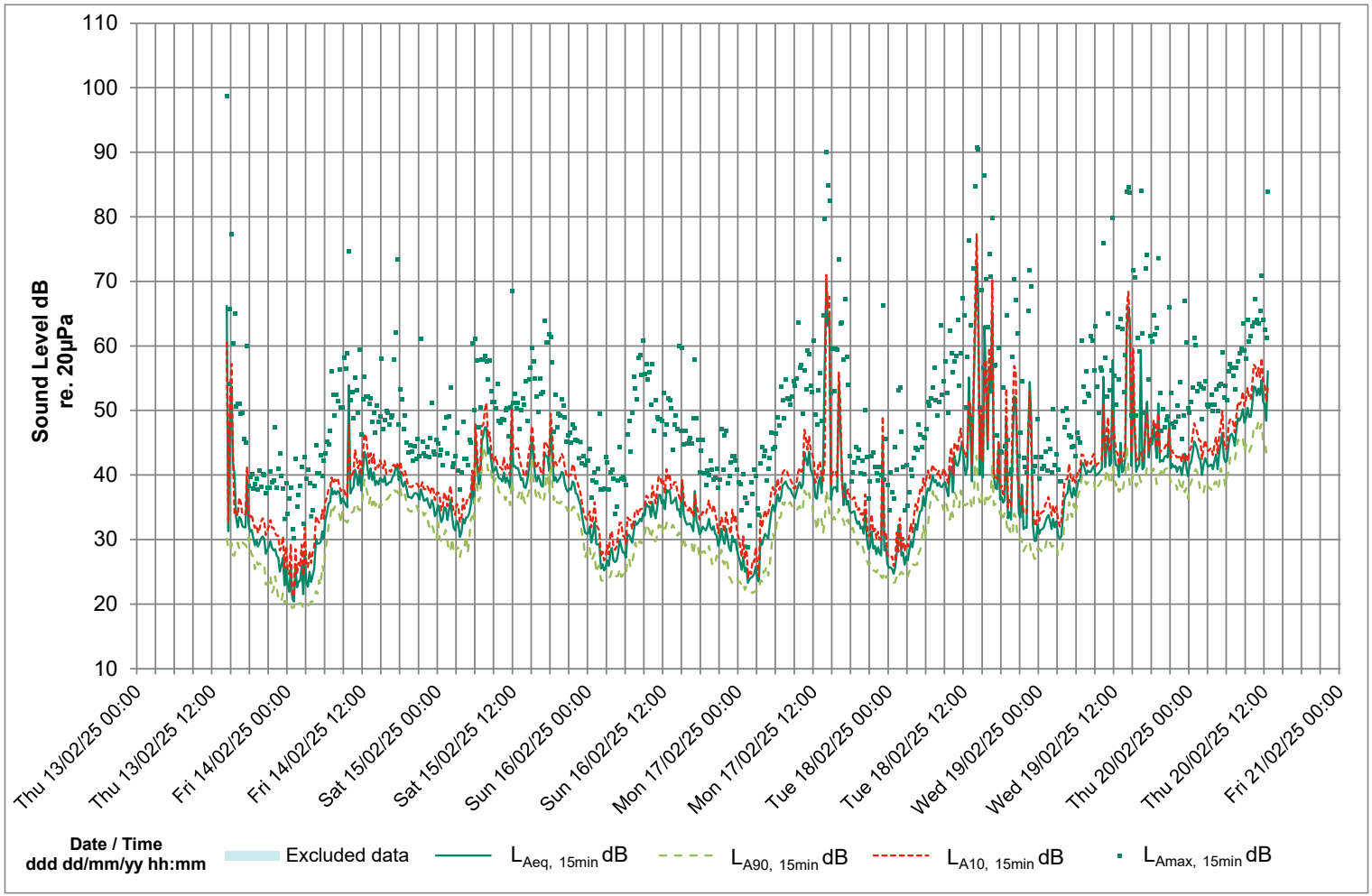


**Figure 5-9: ML10 Time History Plot**

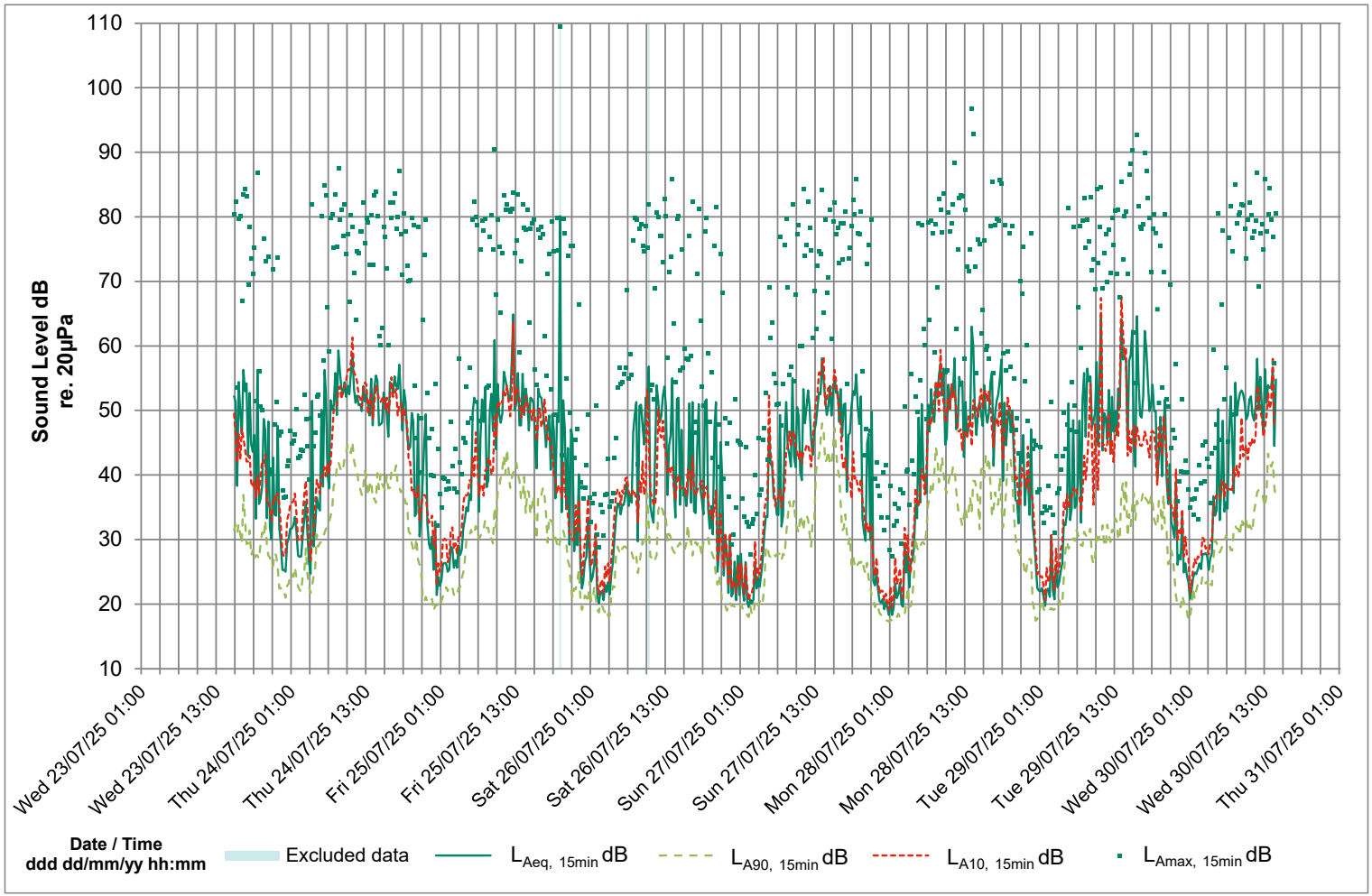


Figure 5-10: ML12 Time History Plot

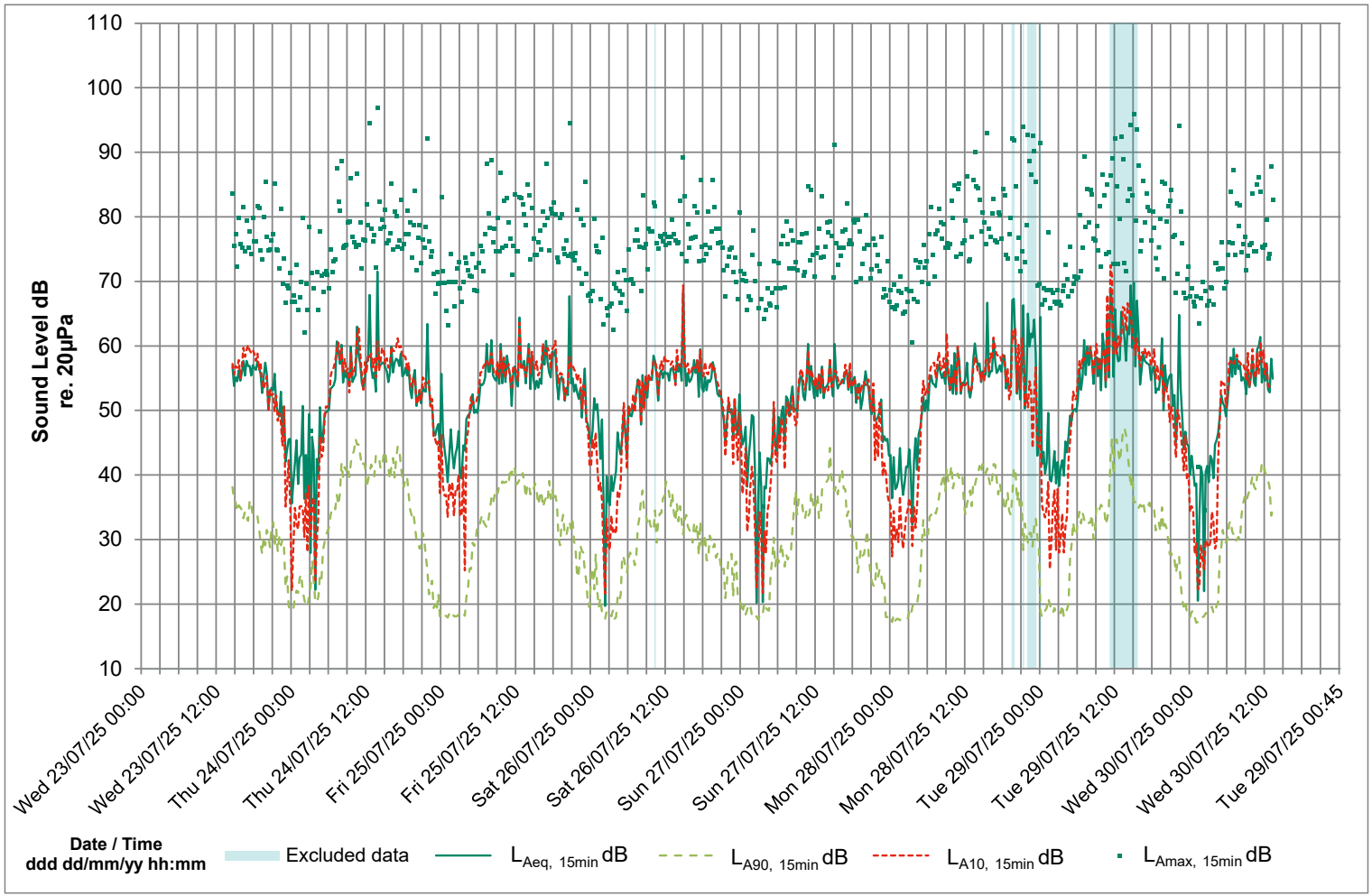


**Figure 5-11: ML13 Time History Plot**

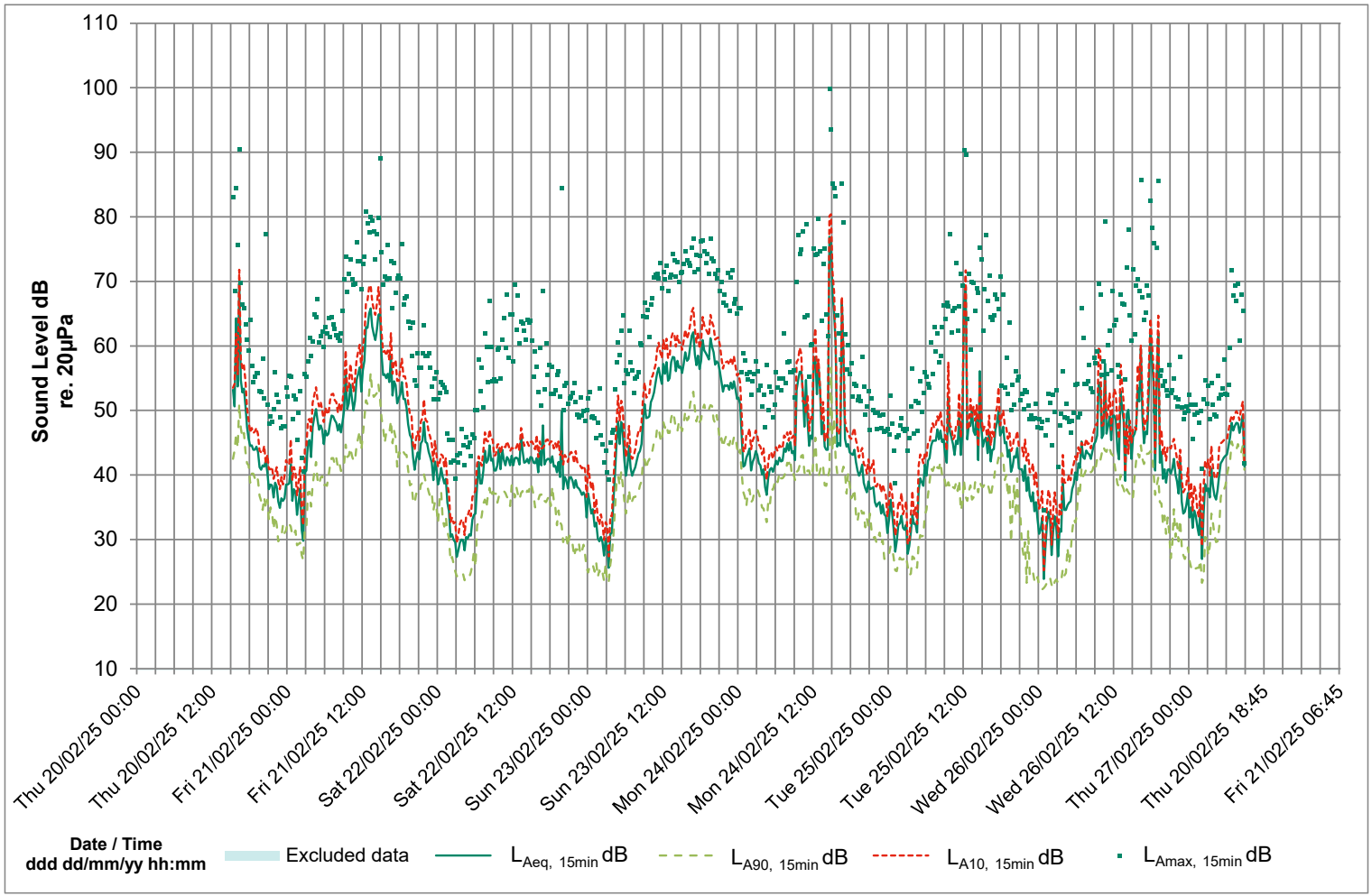


**Figure 5-12: ML14 Time History Plot**

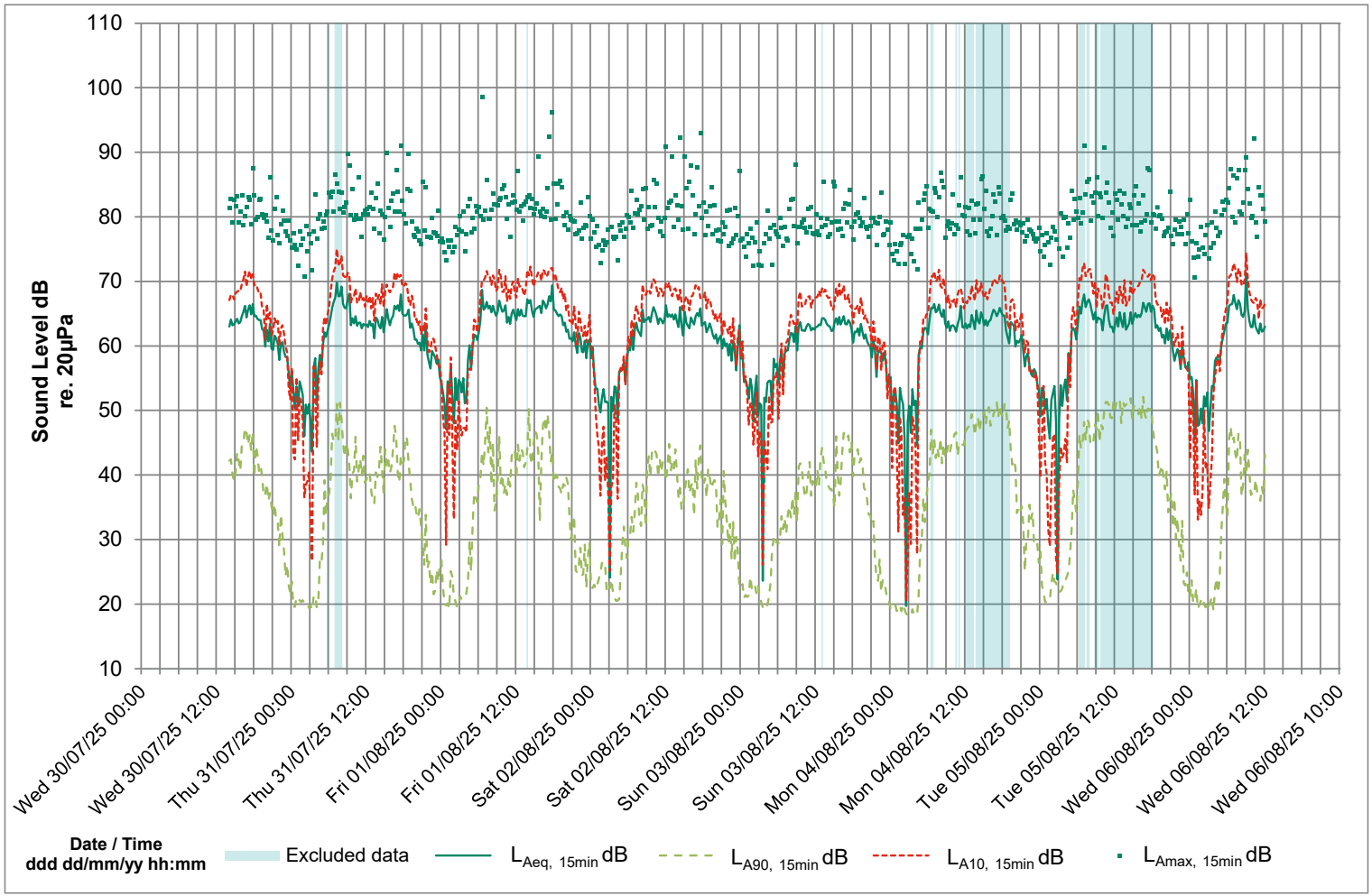


Figure 5-13: ML16 Time History Plot

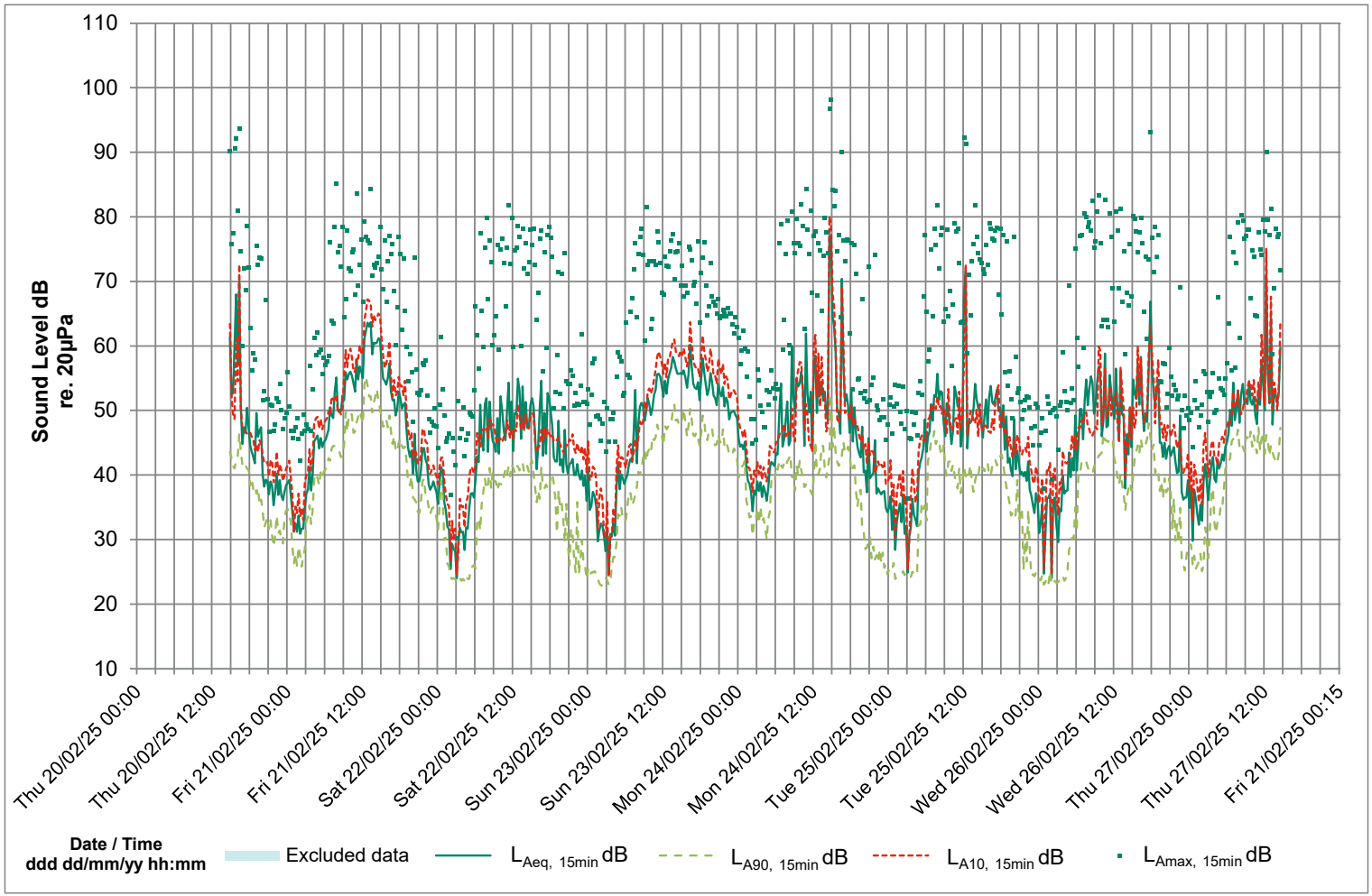


Figure 5-14: ML17 Time History Plot

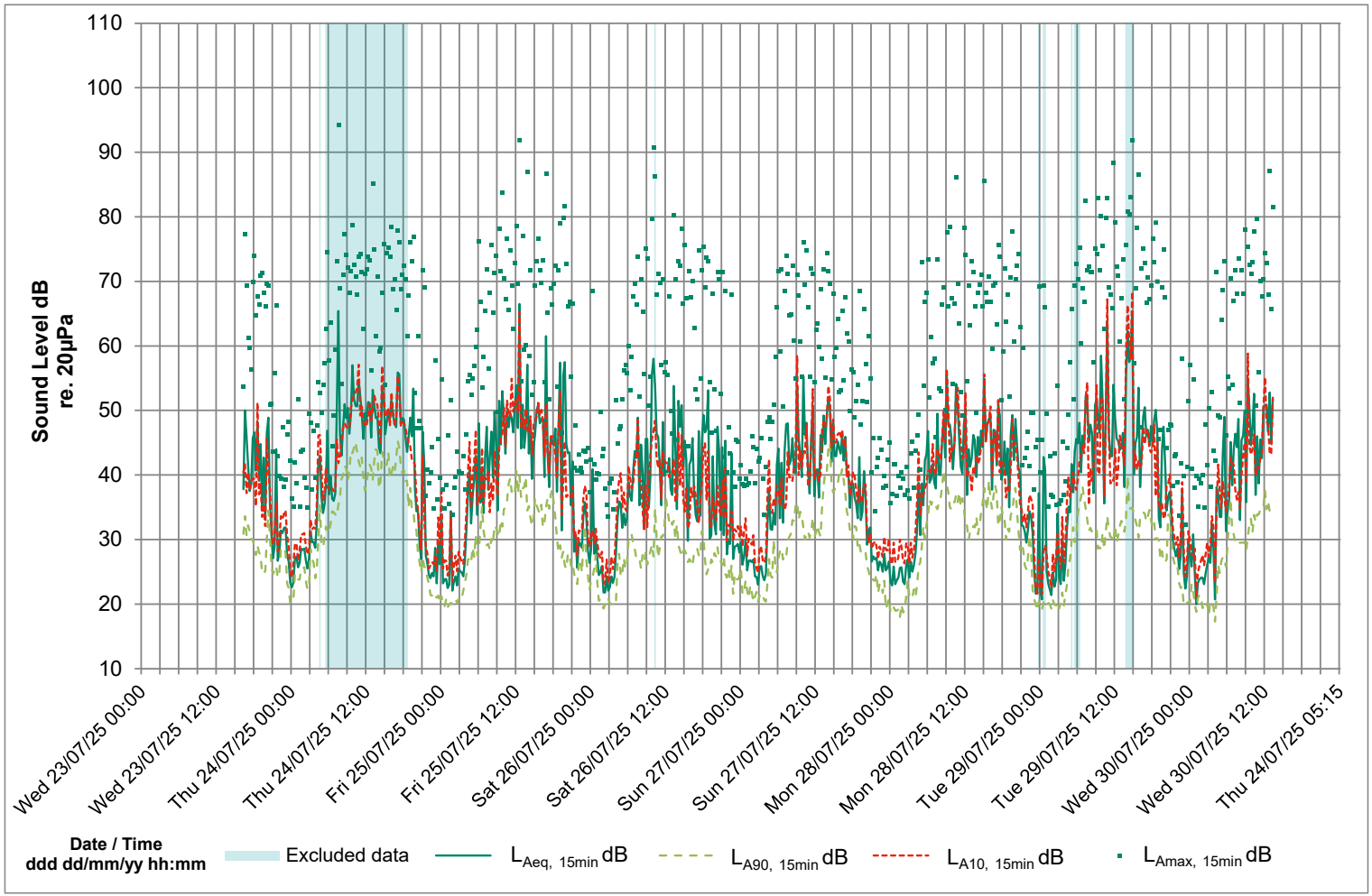


Figure 5-15: ML19 Time History Plot

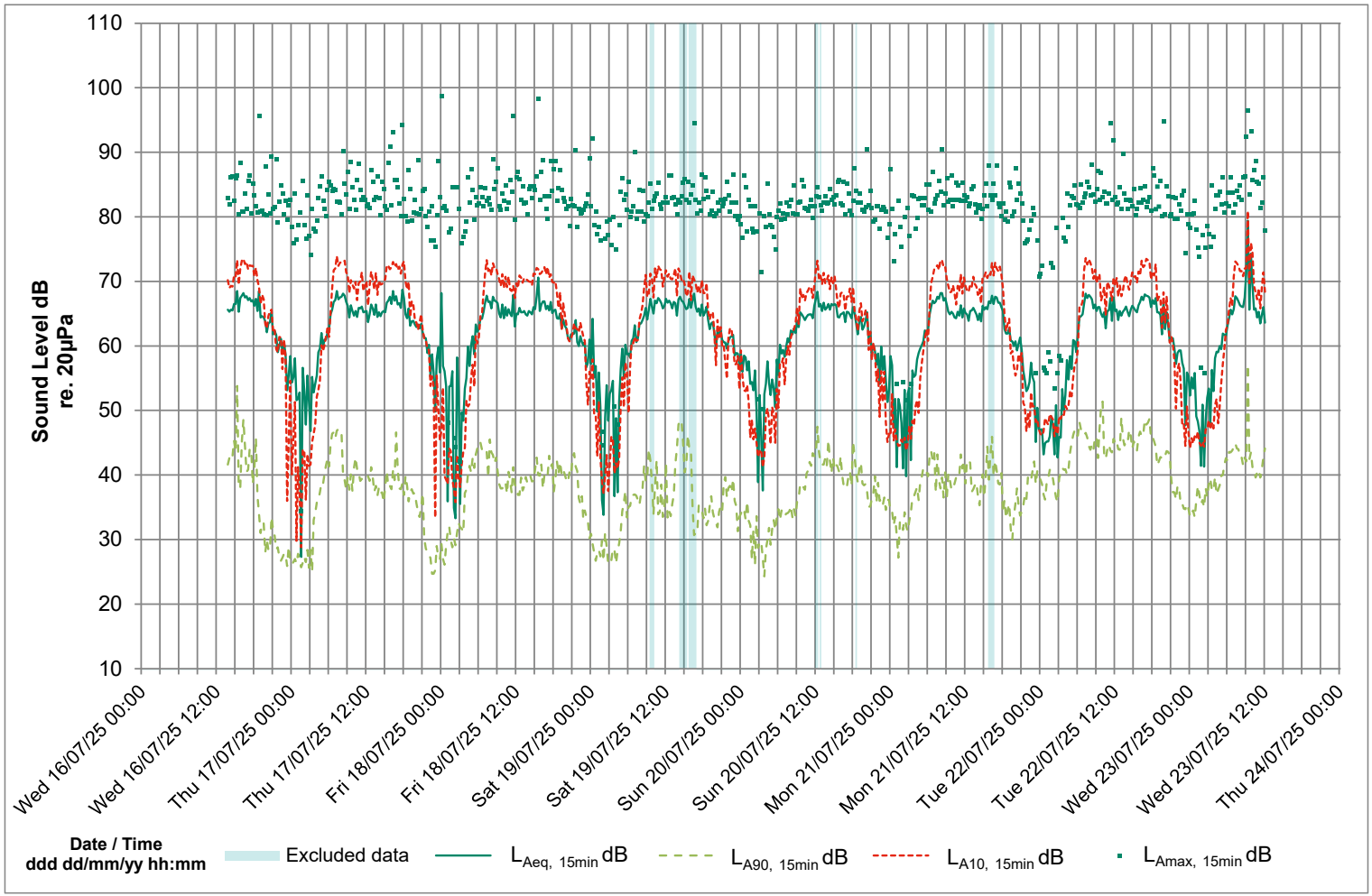


Figure 5-16: ML21 Time History Plot

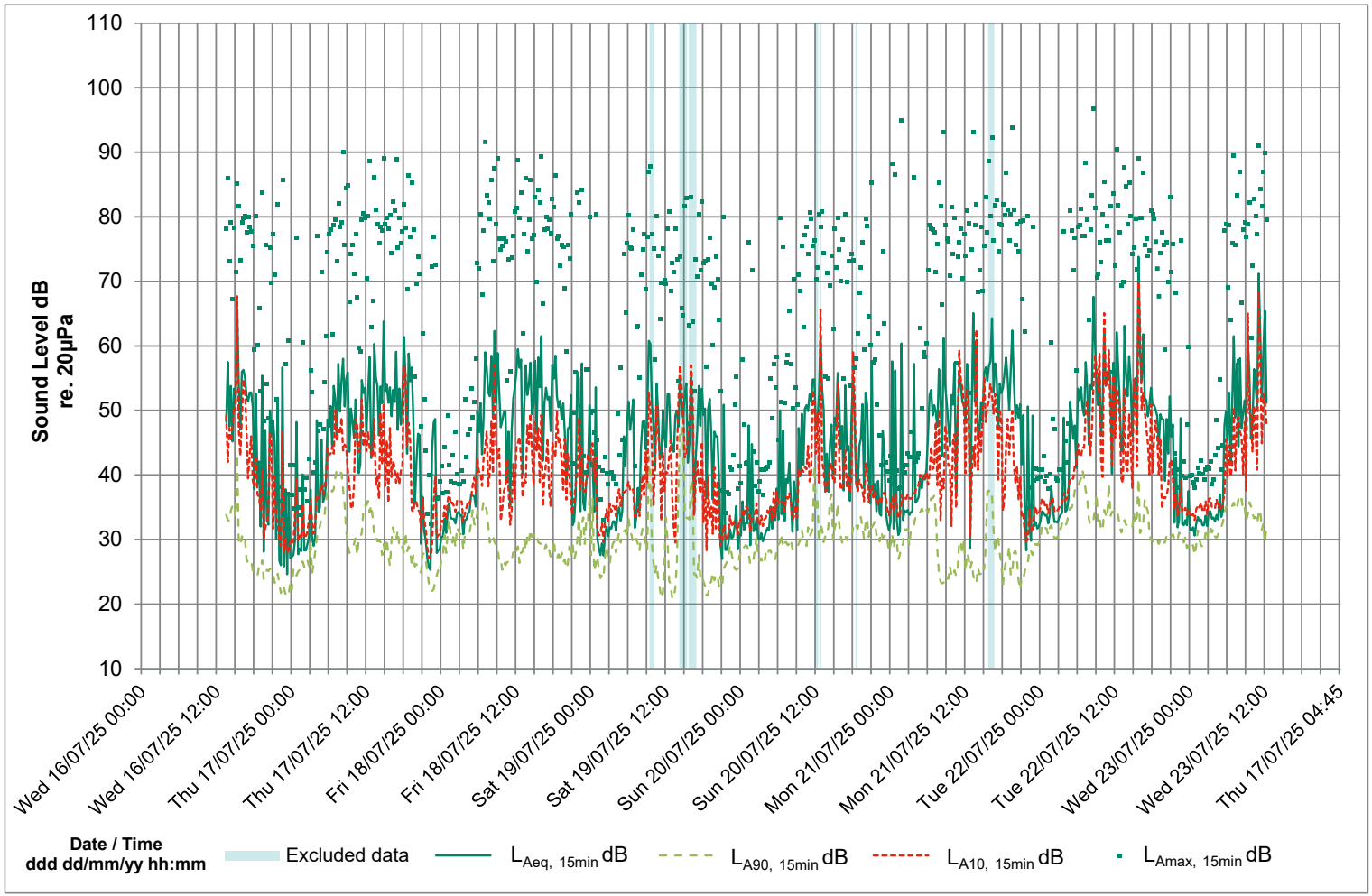


Figure 5-17: ML22 Time History Plot

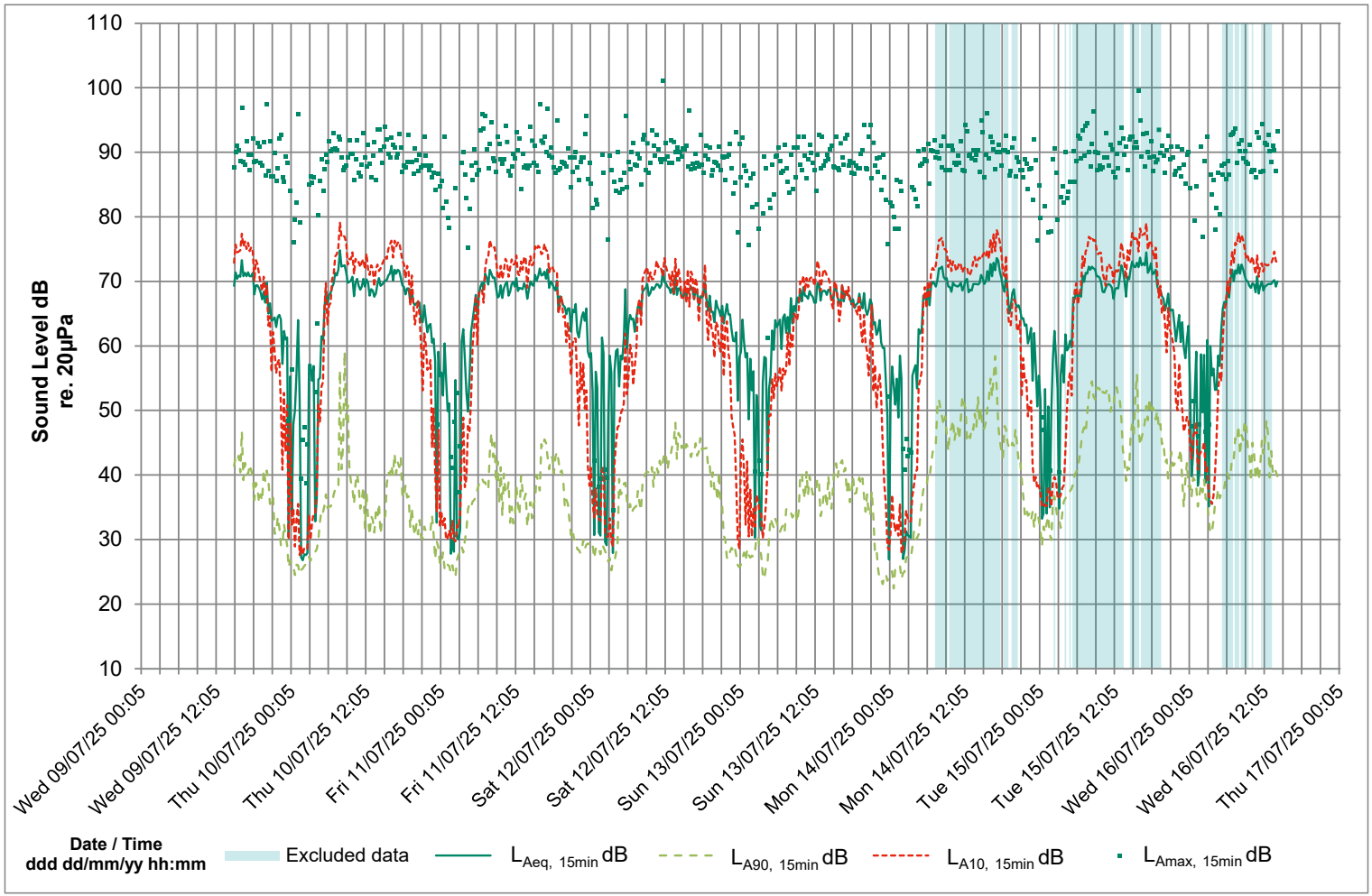


**Figure 5-18: ML23 Time History Plot**

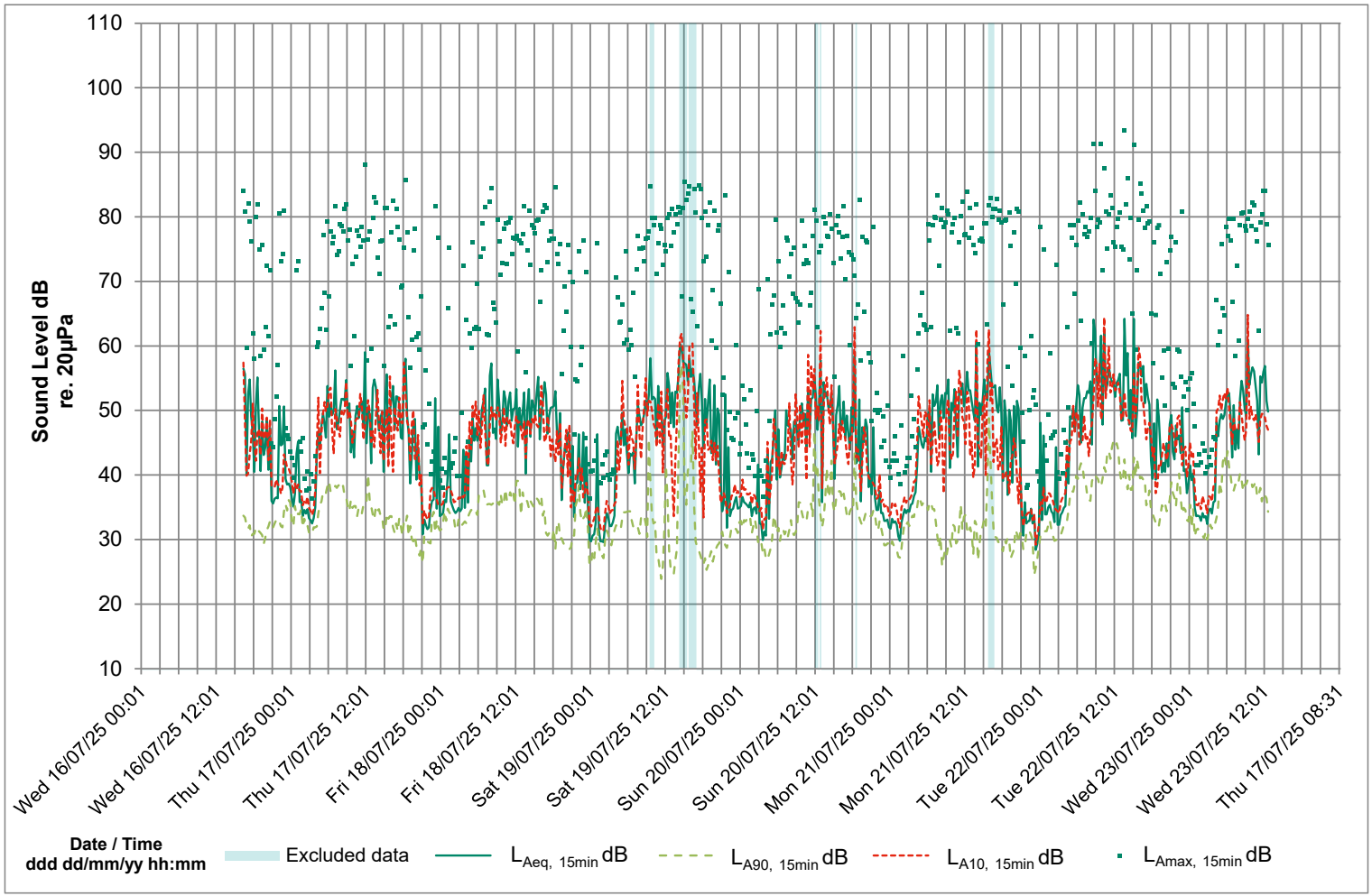


Figure 5-19: ML24 Time History Plot

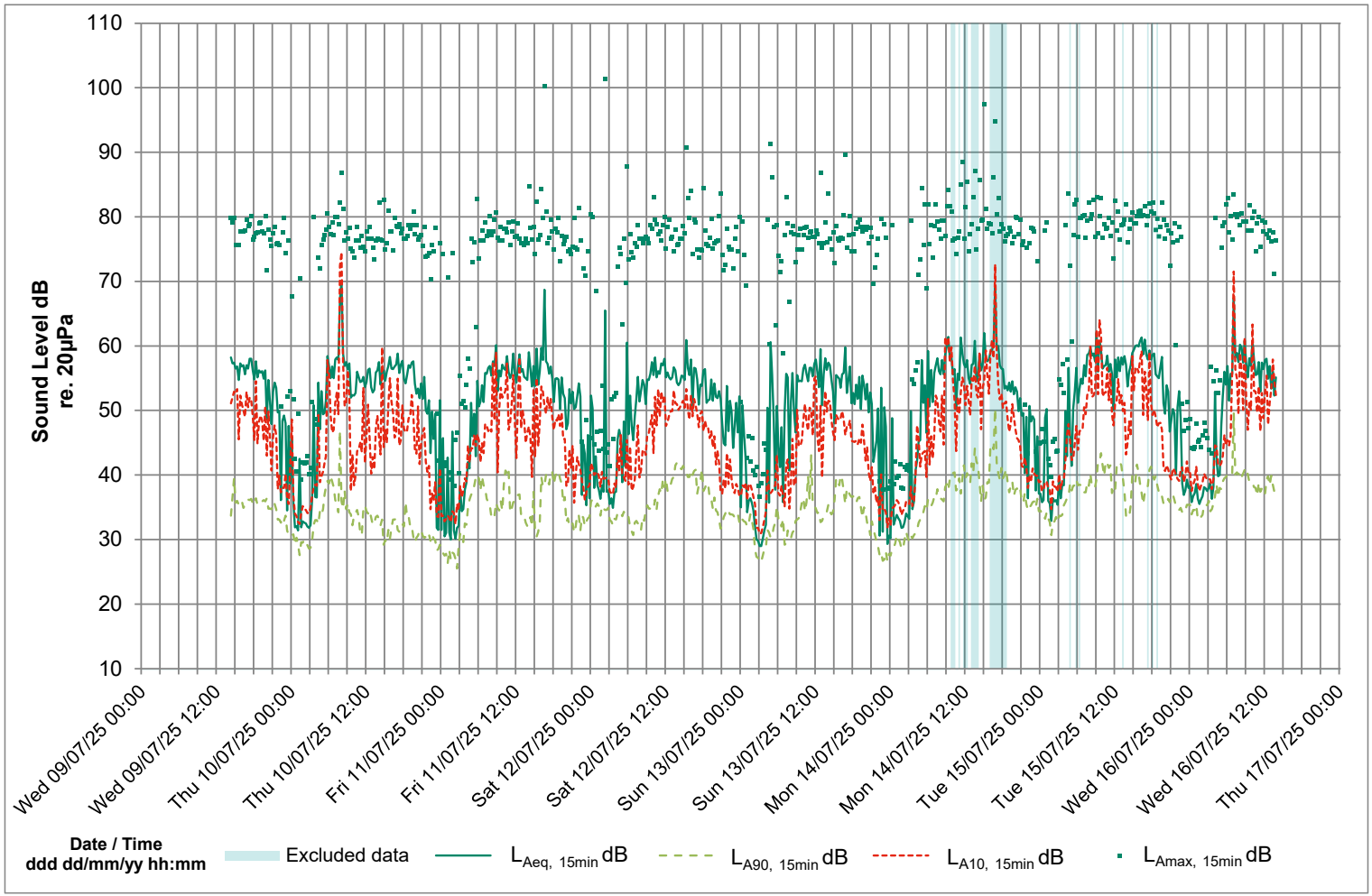


Figure 5-20: ML25 Time History Plot

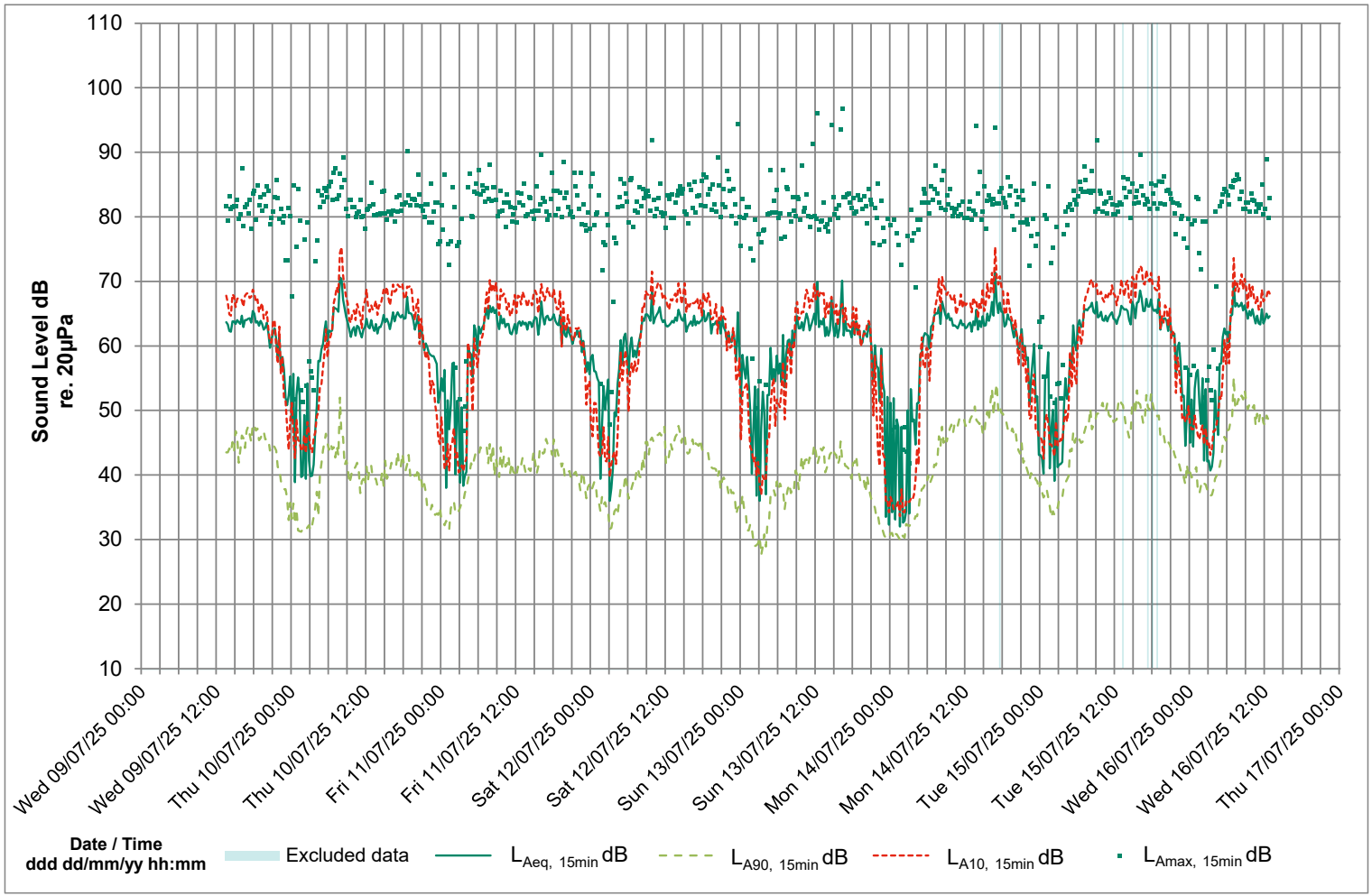


Figure 5-21: ML26 Time History Plot

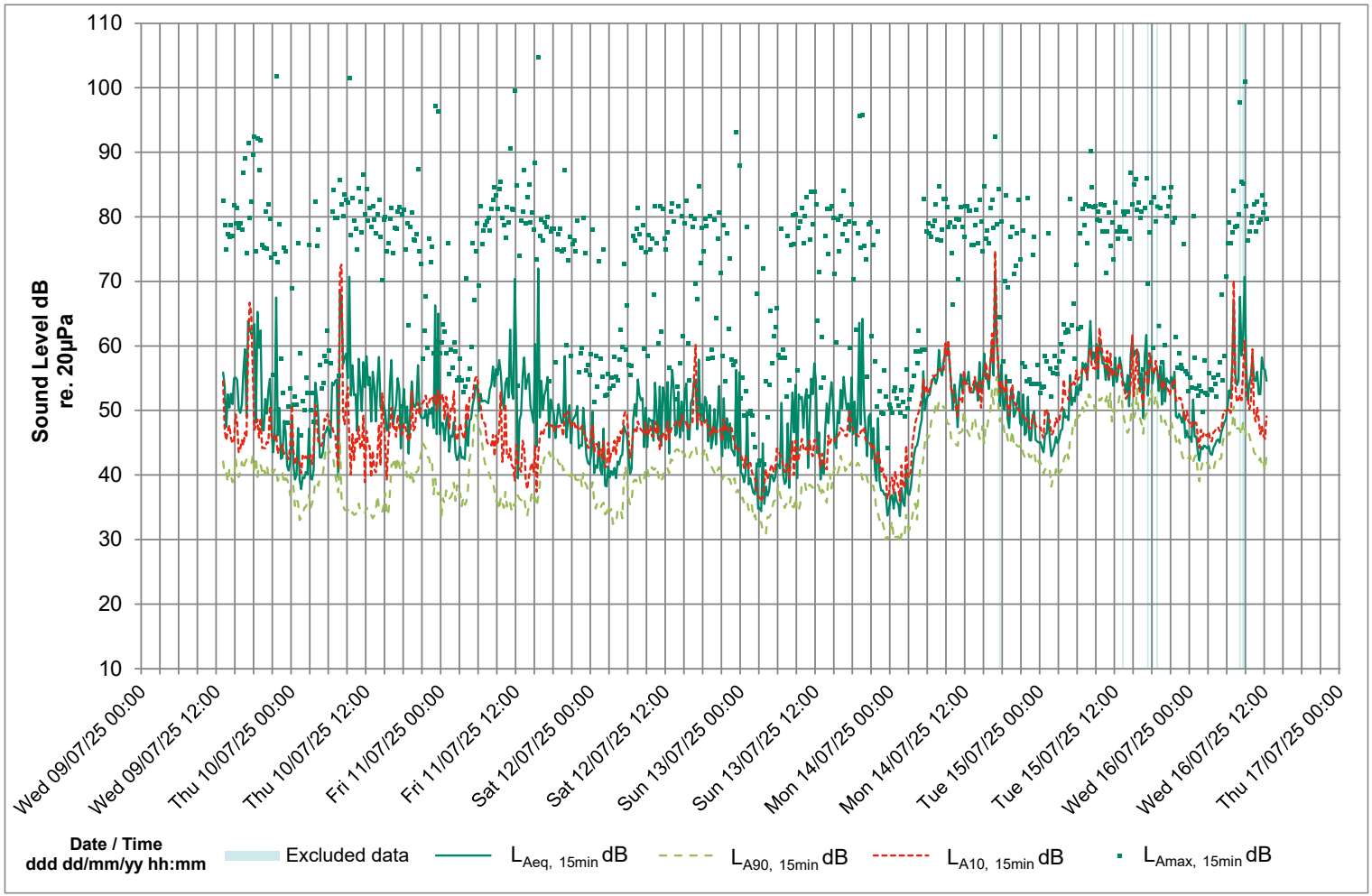


Figure 5-22: ML27 Time History Plot

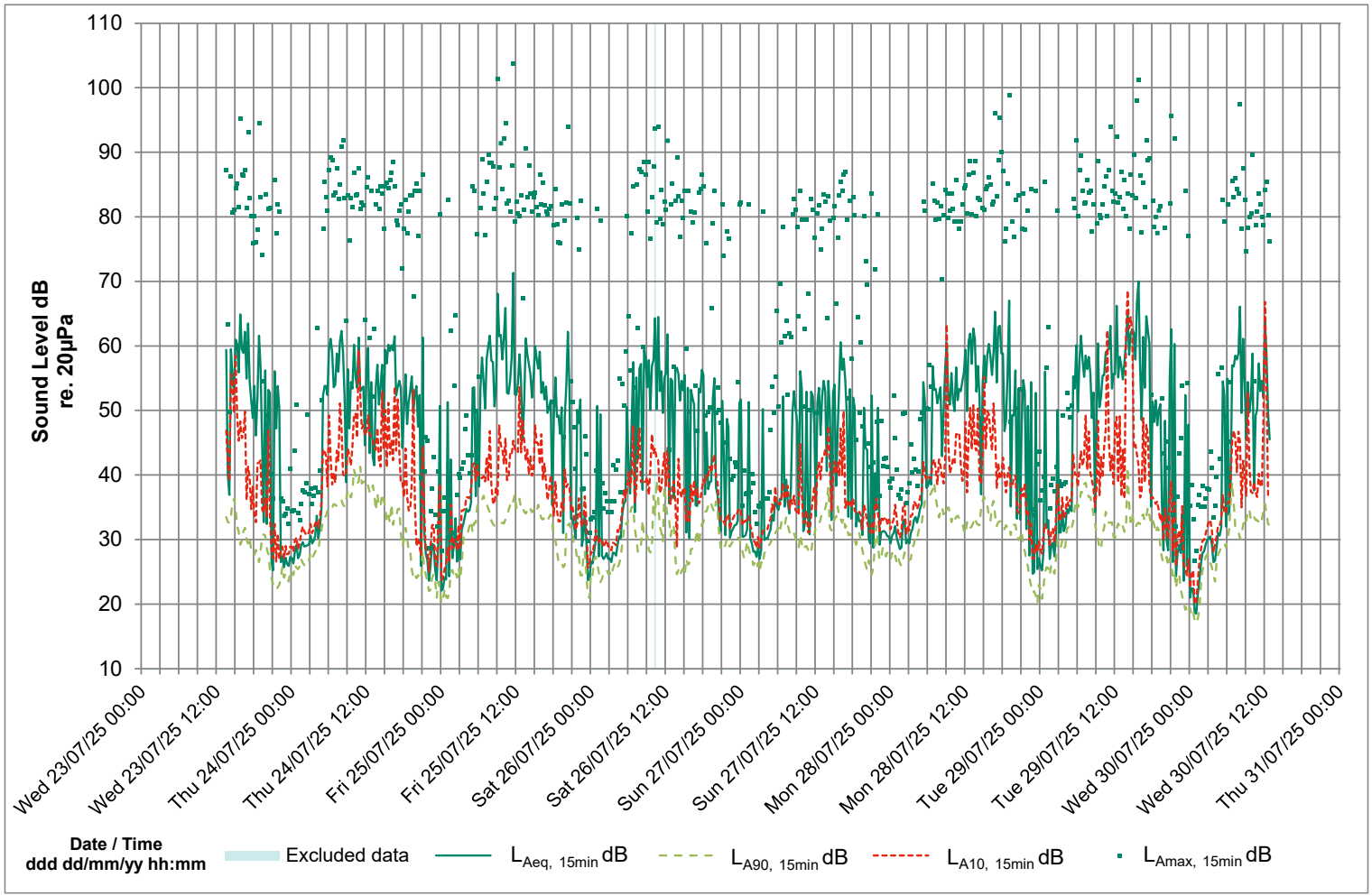


**Figure 5-23: ML28 Time History Plot**

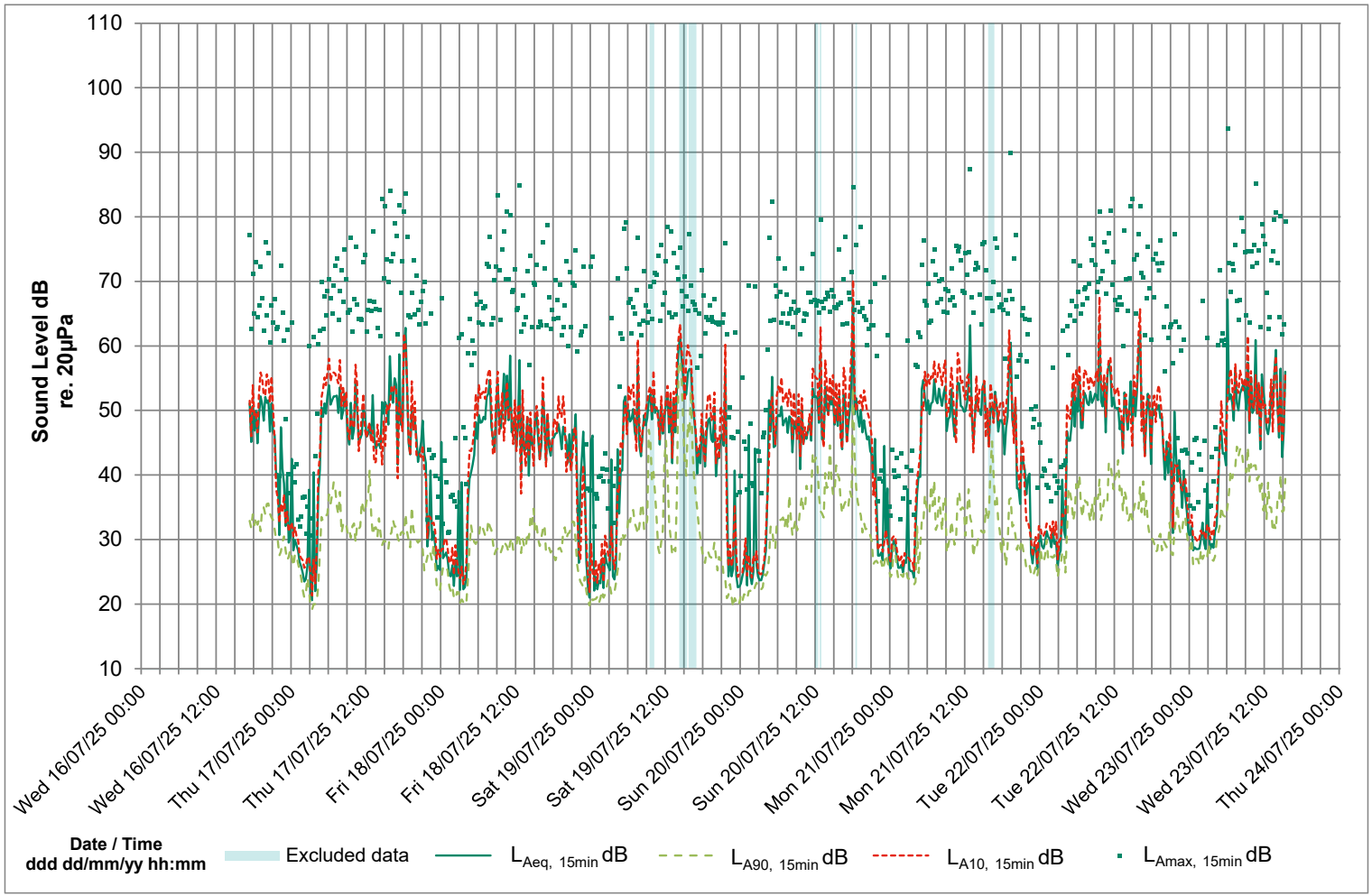


**Figure 5-24: ADD01 Time History Plot**

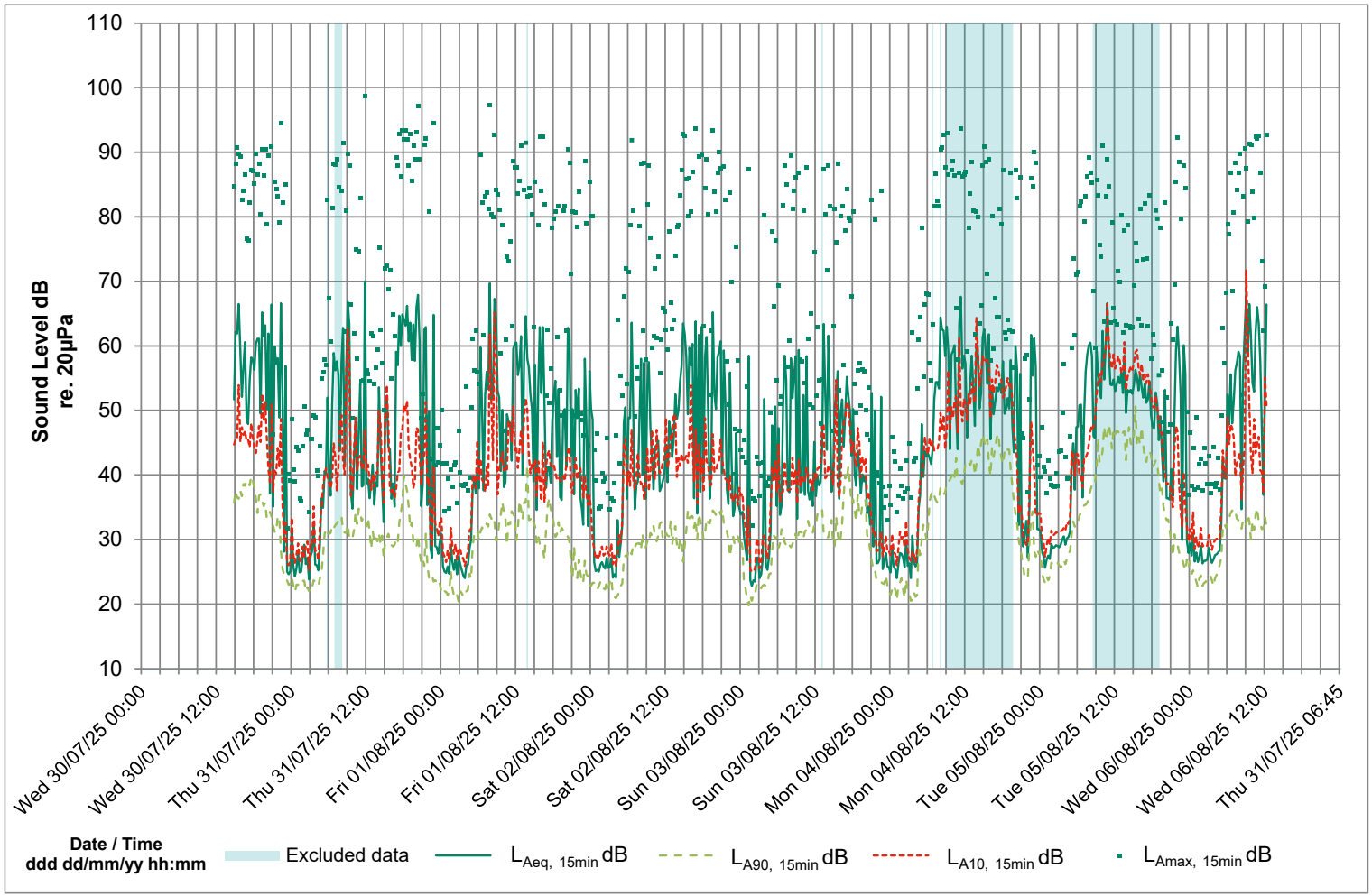


Figure 5-25: ADD02 Time History Plot

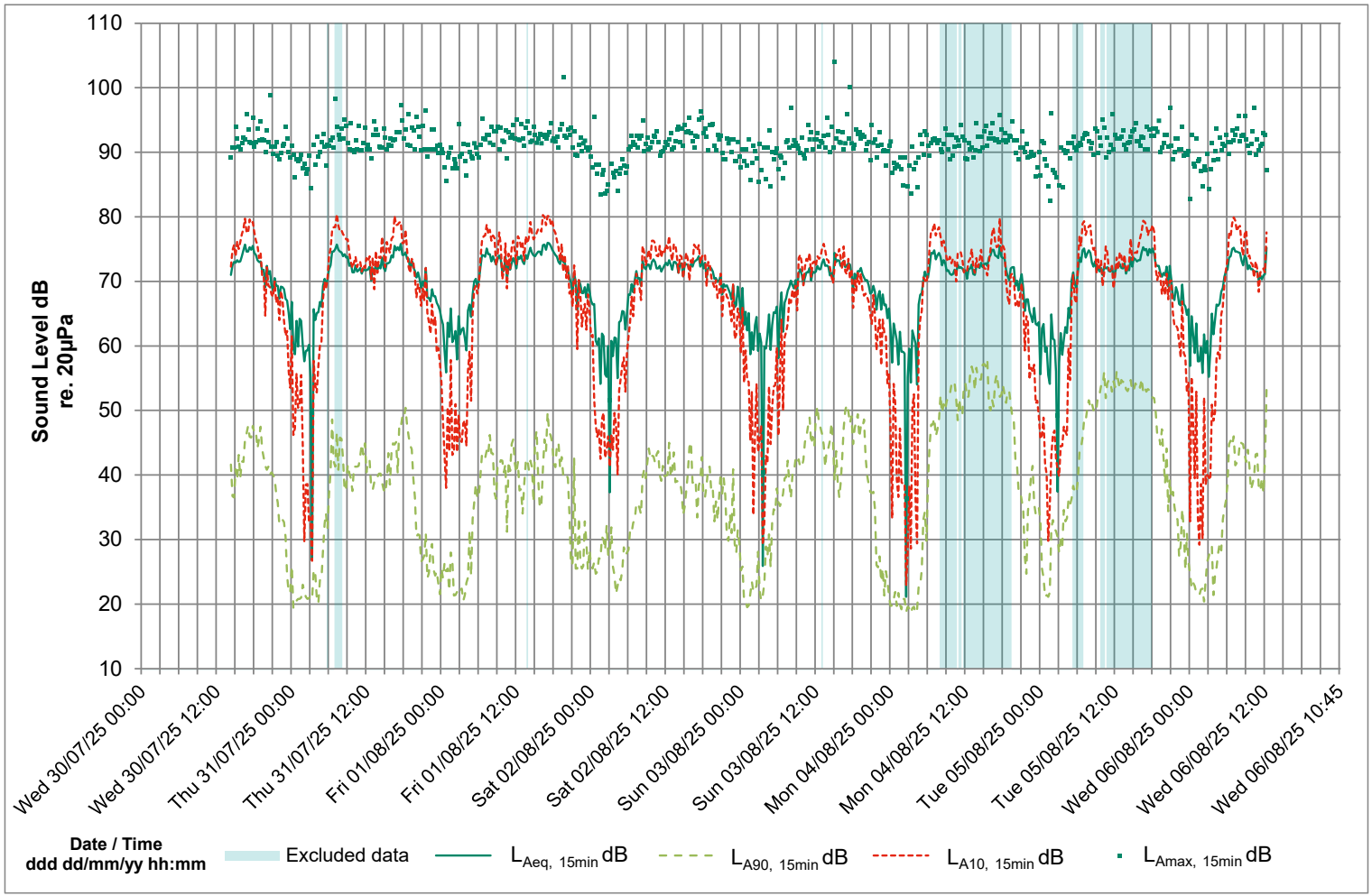


Figure 5-26: ADD03 Time History Plot

# 6. Unattended Monitoring $L_{A90,T}$ Histogram Plots

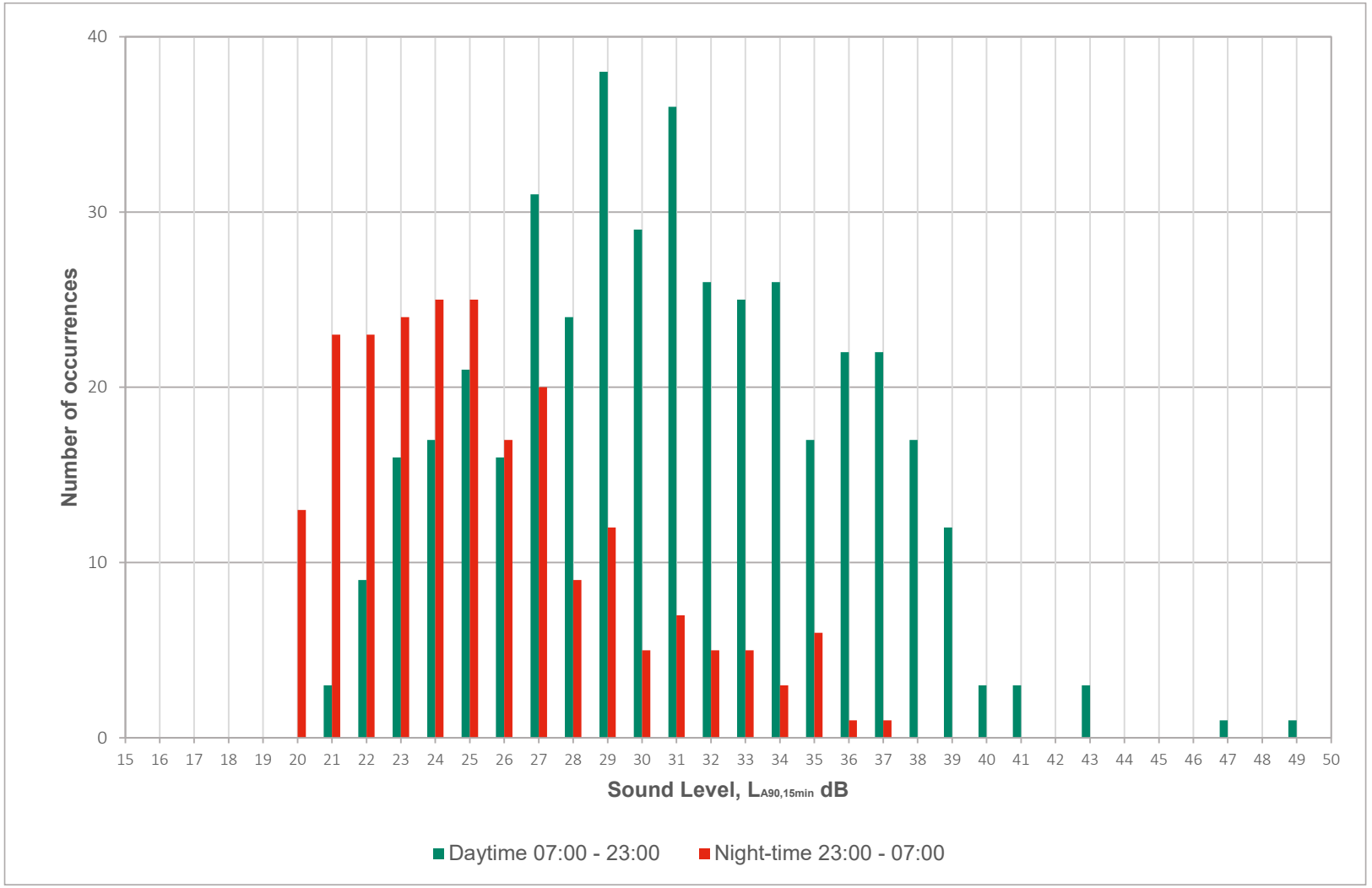


**Figure 6-1: ML01 Histogram Plot**

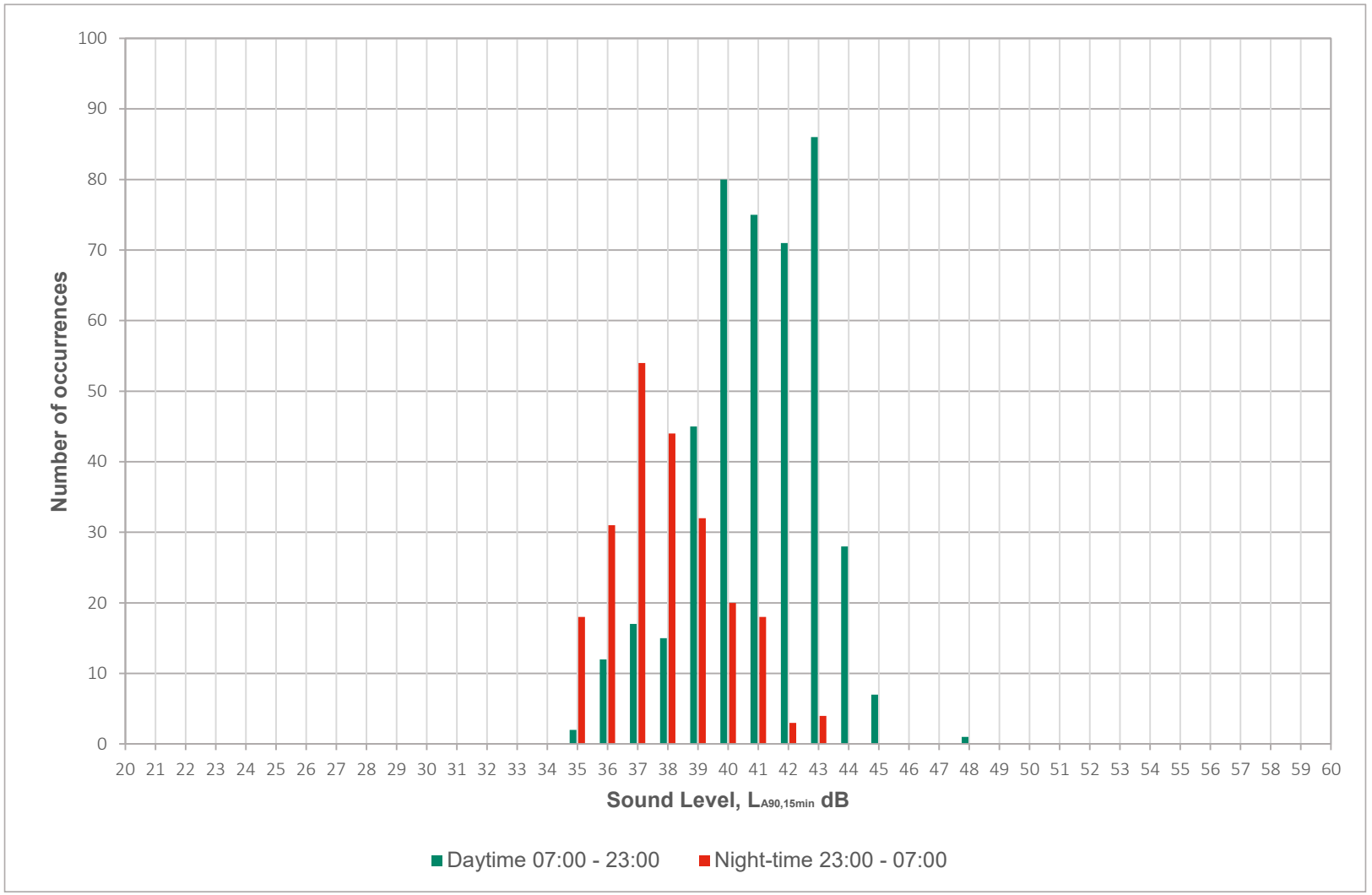


**Figure 6-2: ML02 Histogram Plot**

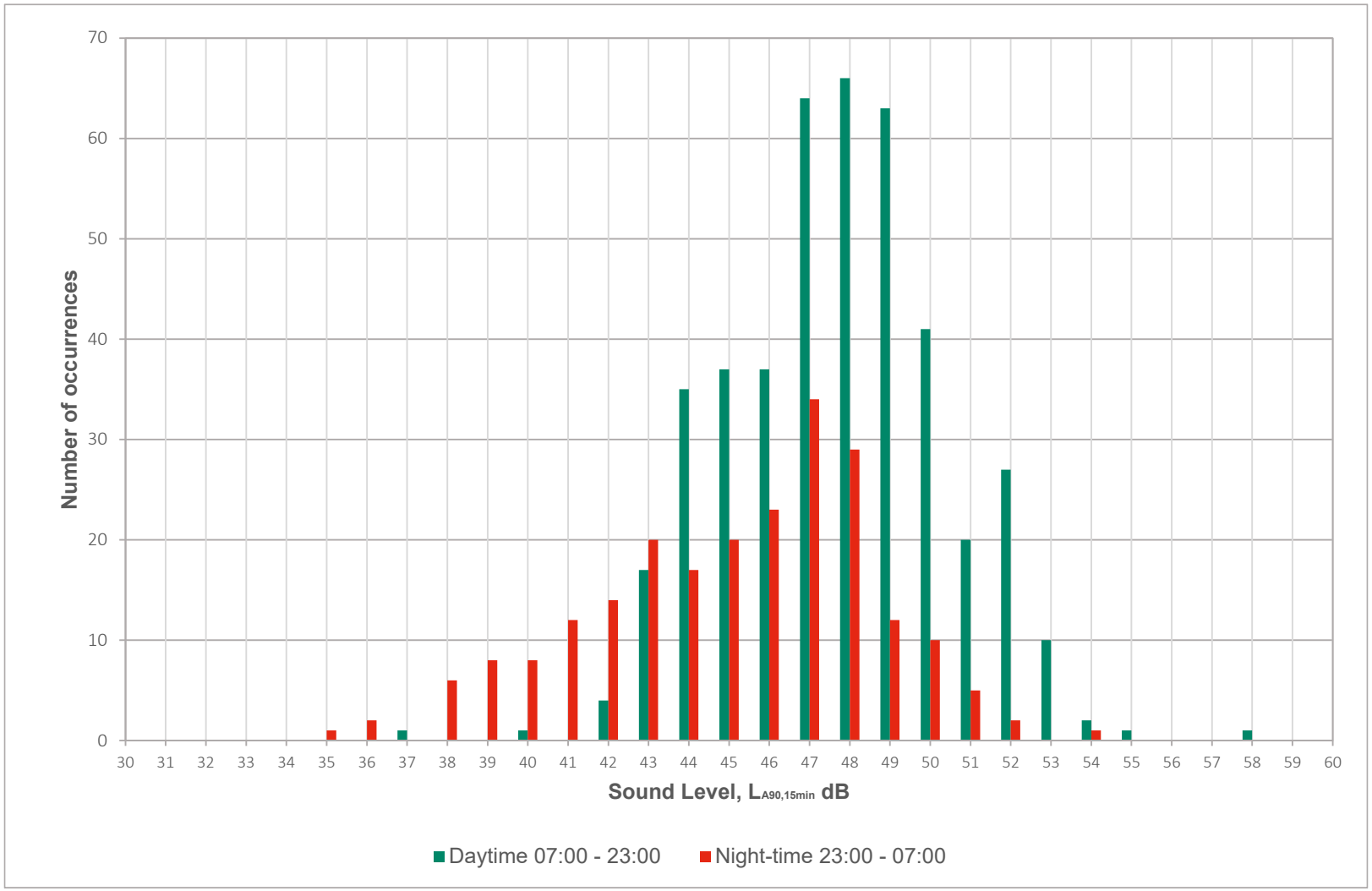


**Figure 6-3: ML03 Histogram Plot**

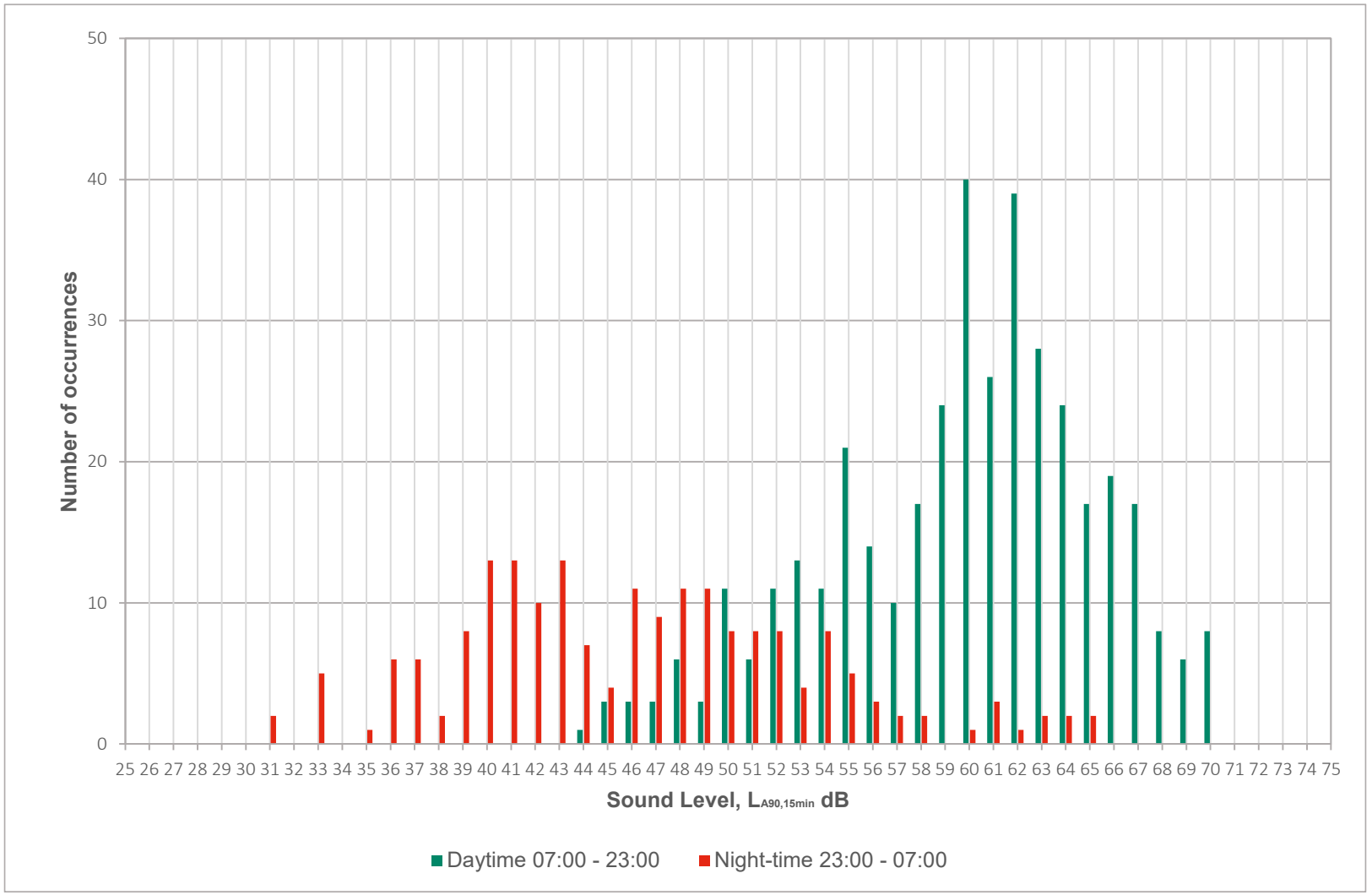


**Figure 6-4: ML04 Histogram Plot**

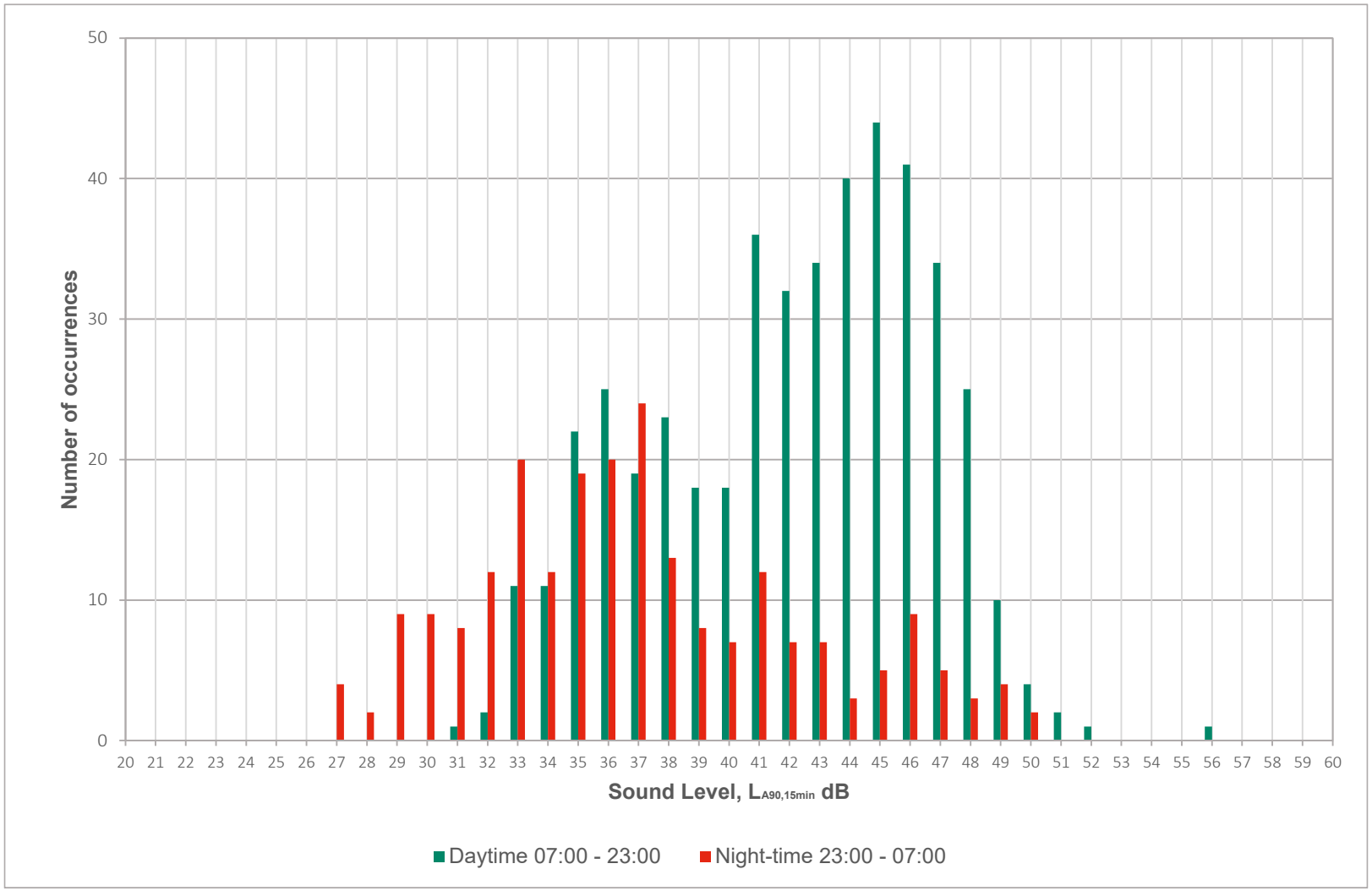


**Figure 6-5: ML05 Histogram Plot**

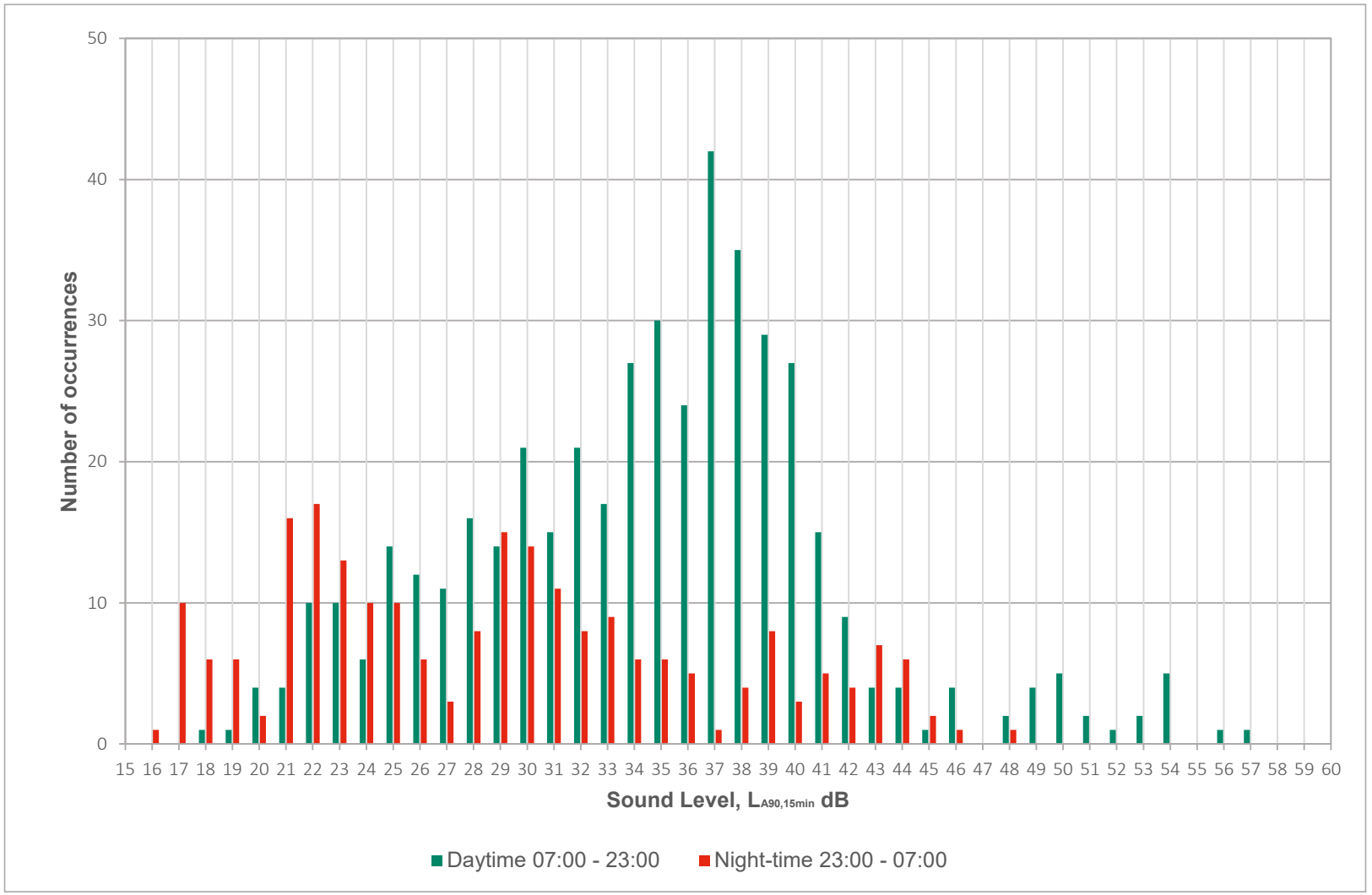


**Figure 6-6: ML07 Histogram Plot**

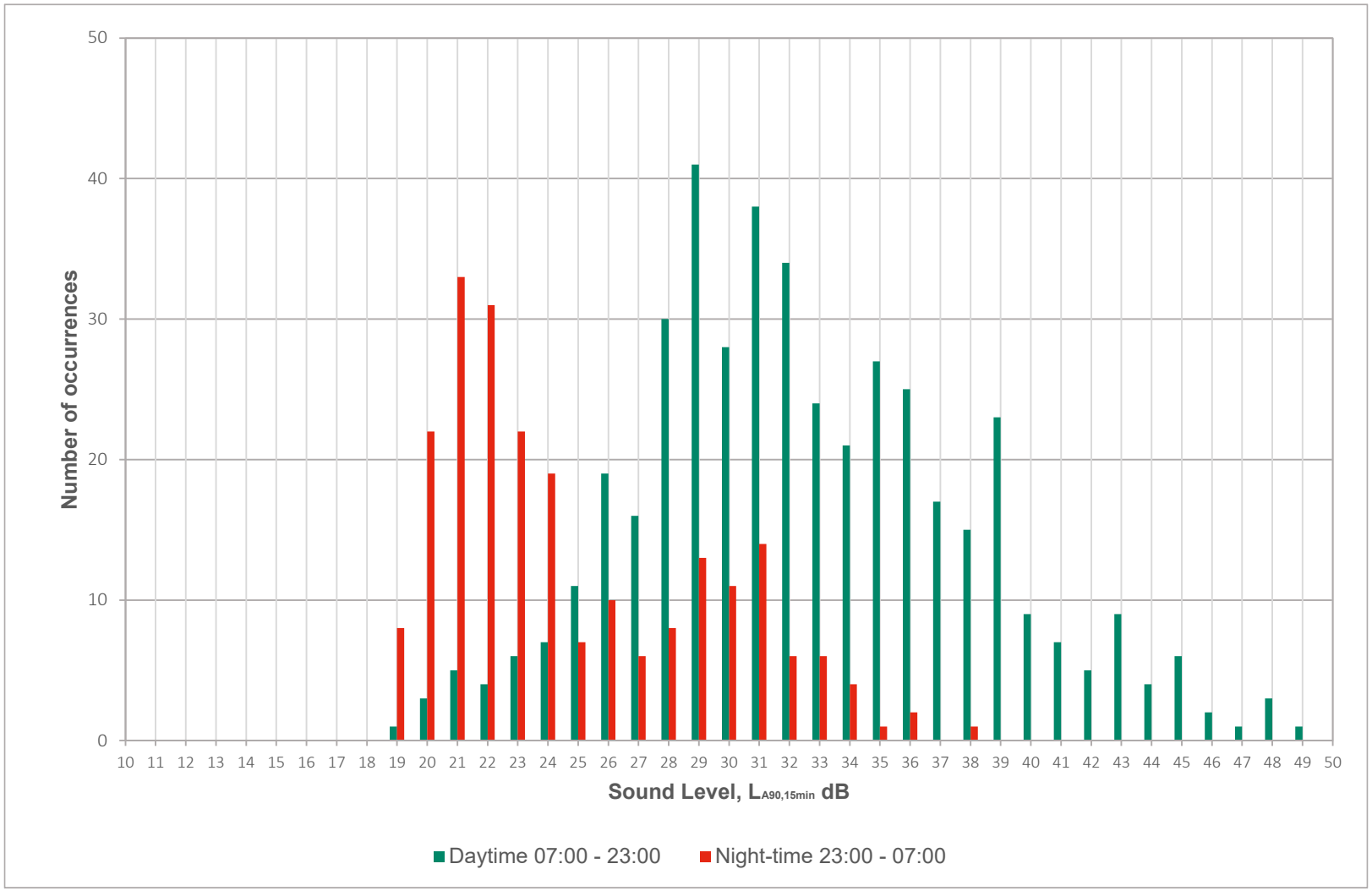


**Figure 6-7: ML08 Histogram Plot**

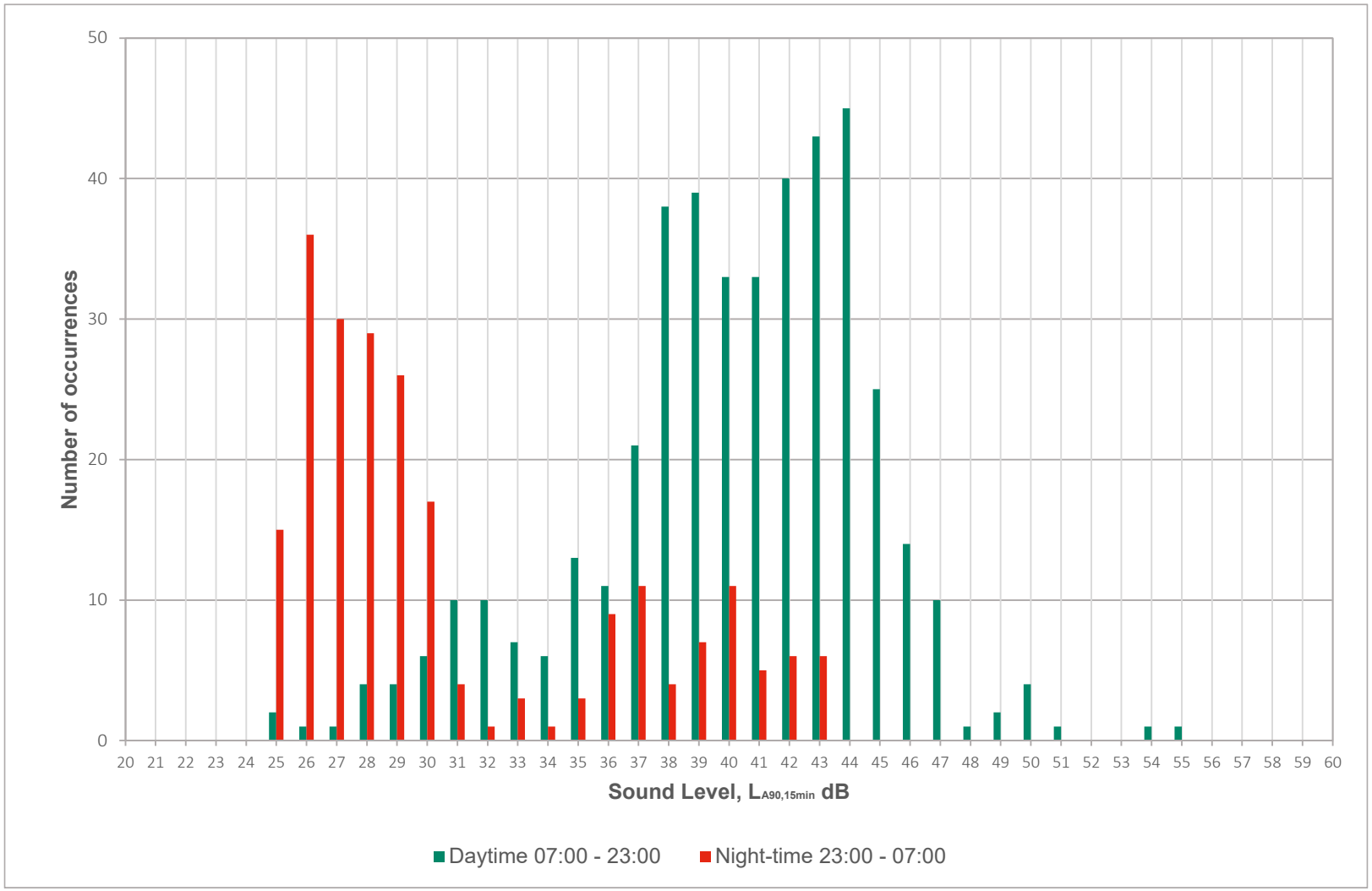


**Figure 6-8: ML09 Histogram Plot**

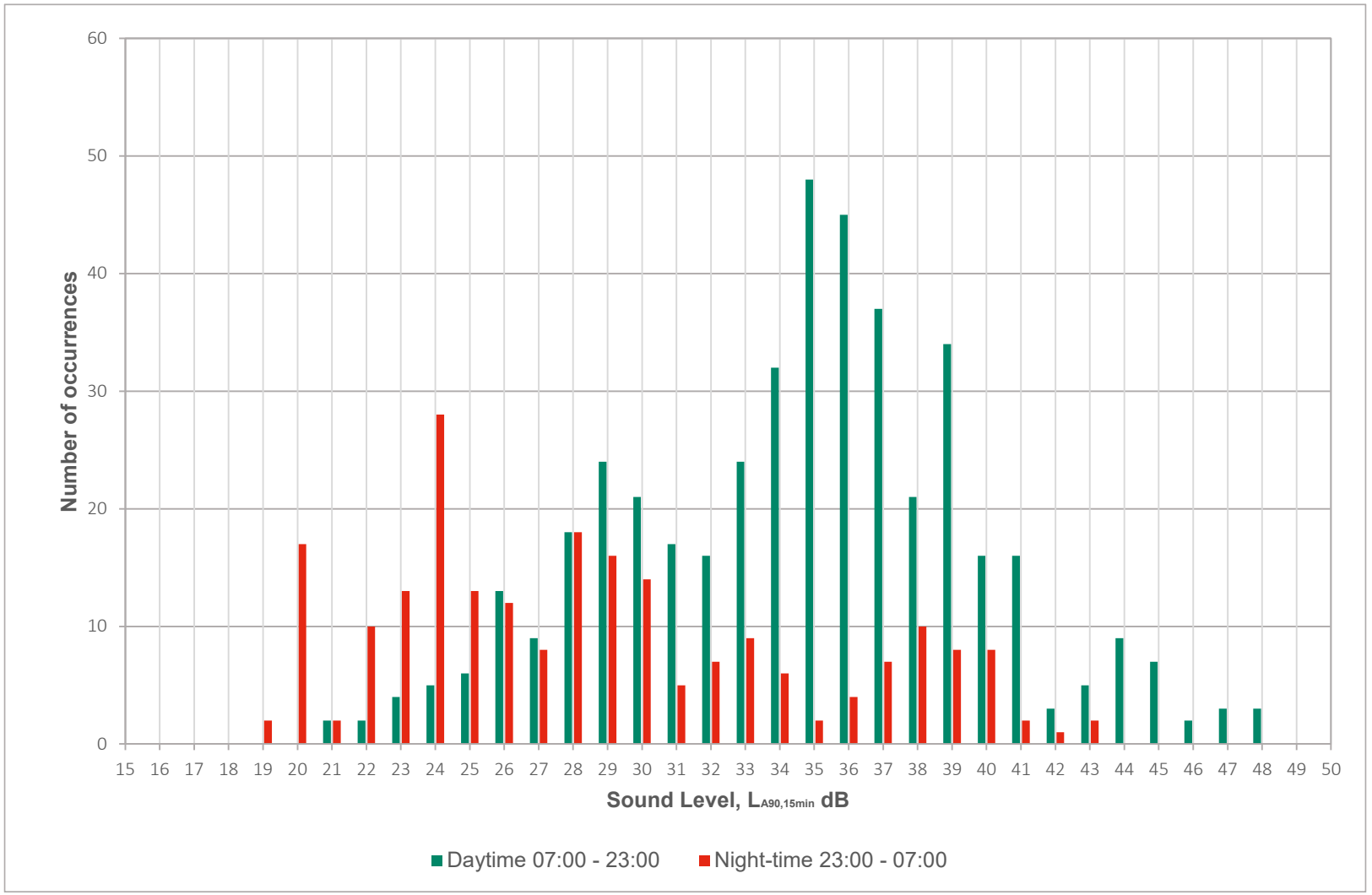


**Figure 6-9: ML10 Histogram Plot**

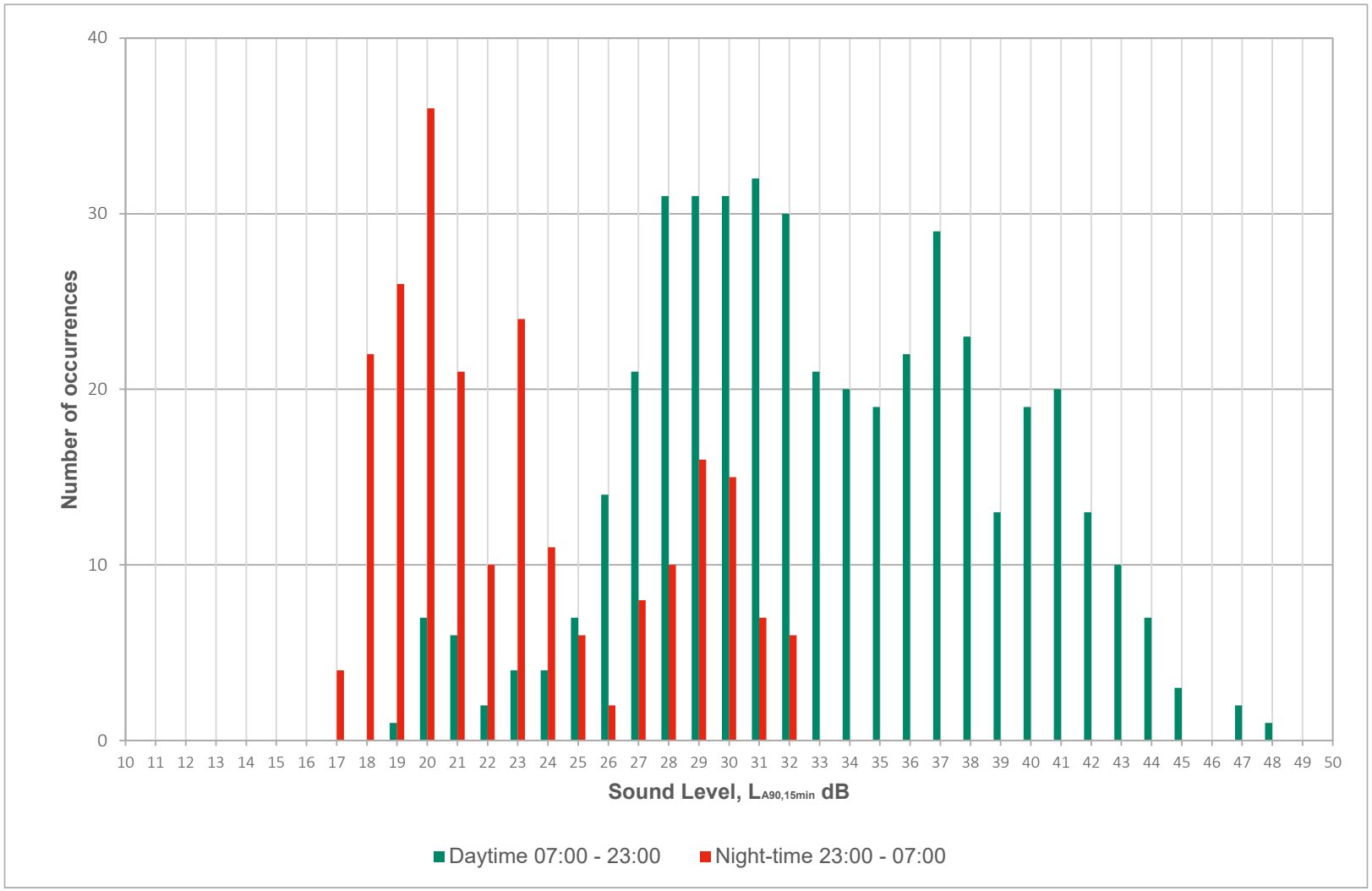


**Figure 6-10: ML12 Histogram Plot**

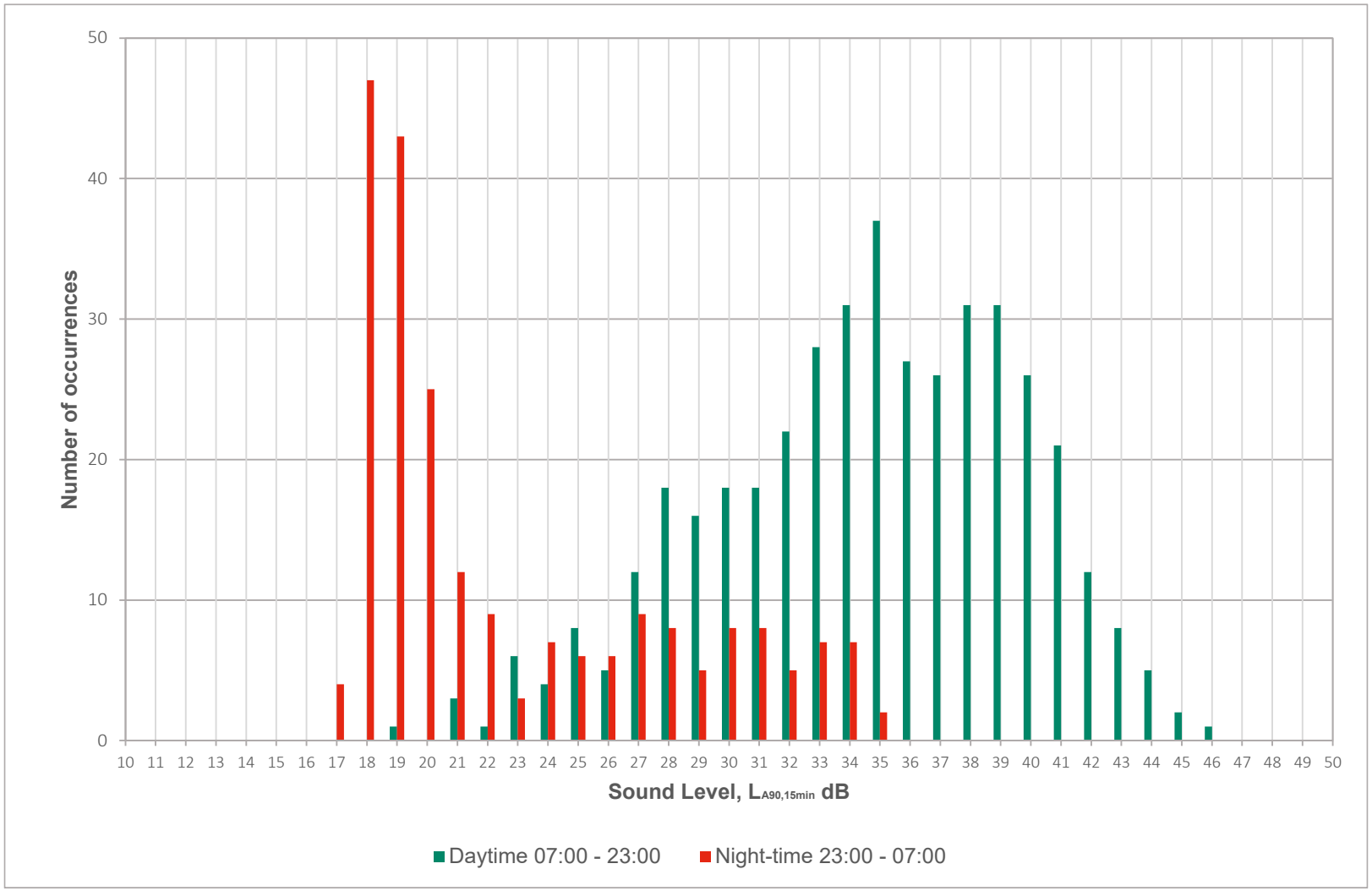


**Figure 6-11: ML13 Histogram Plot**

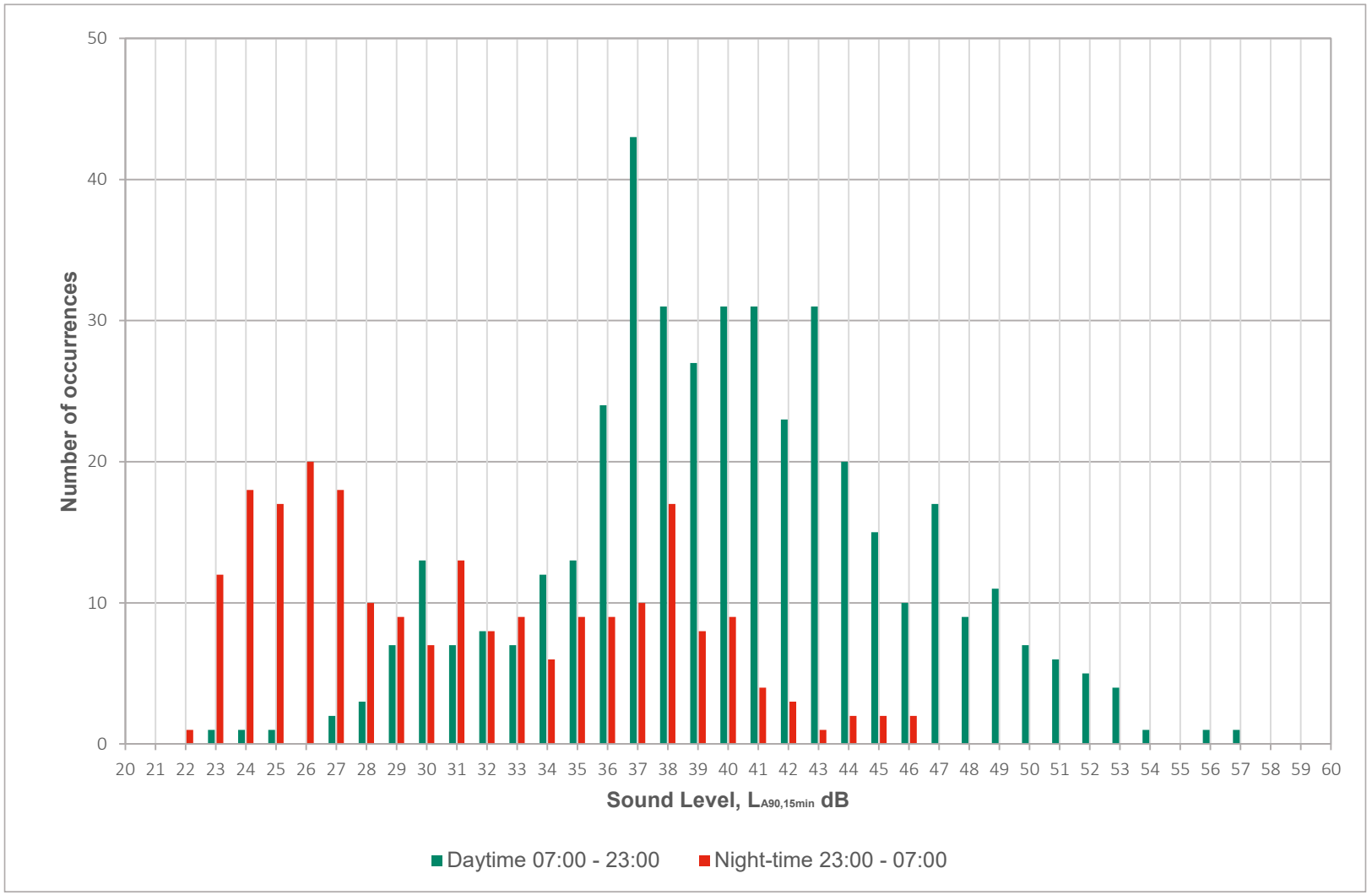


**Figure 6-12: ML14 Histogram Plot**

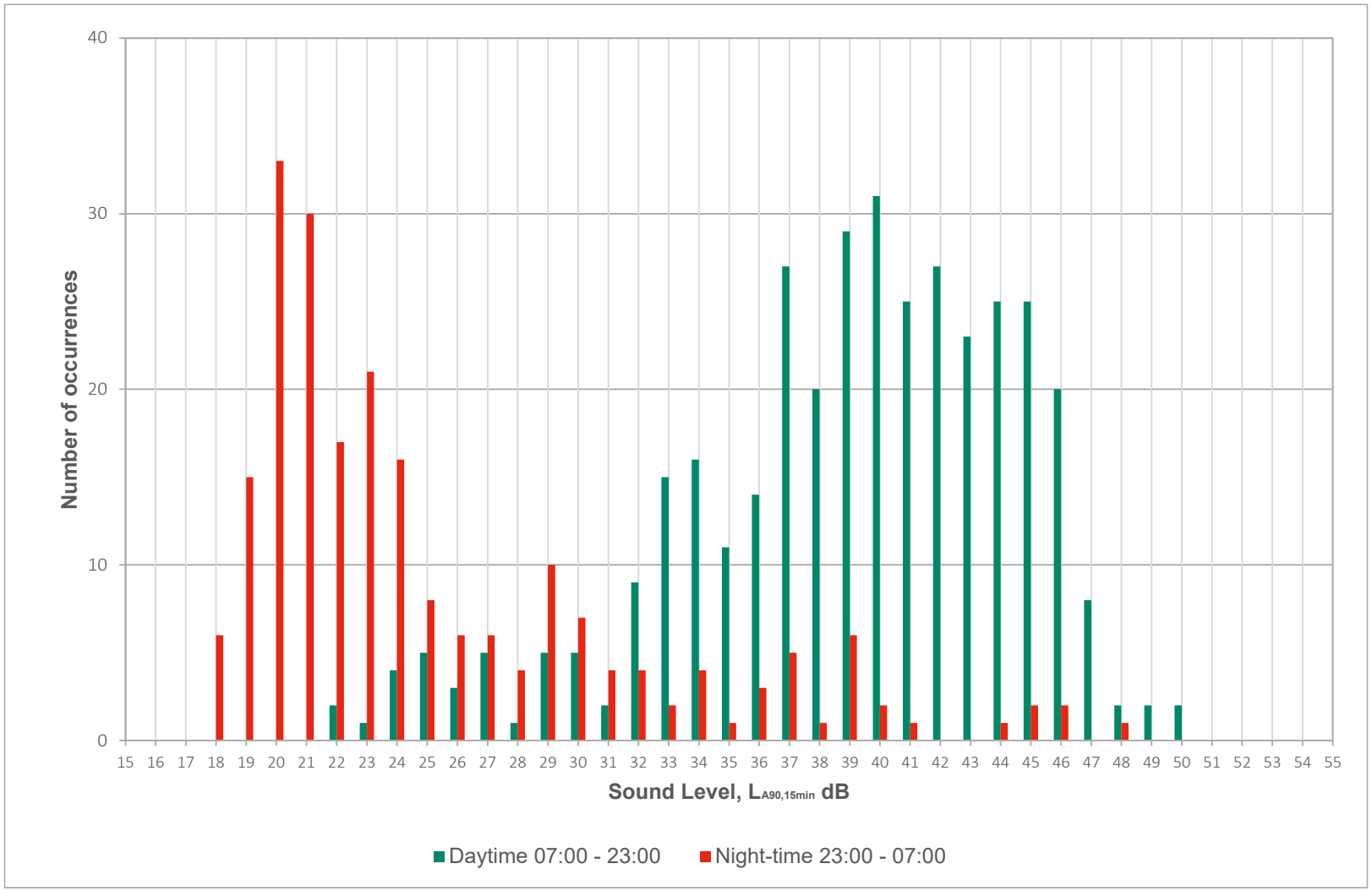


**Figure 6-13: ML16 Histogram Plot**

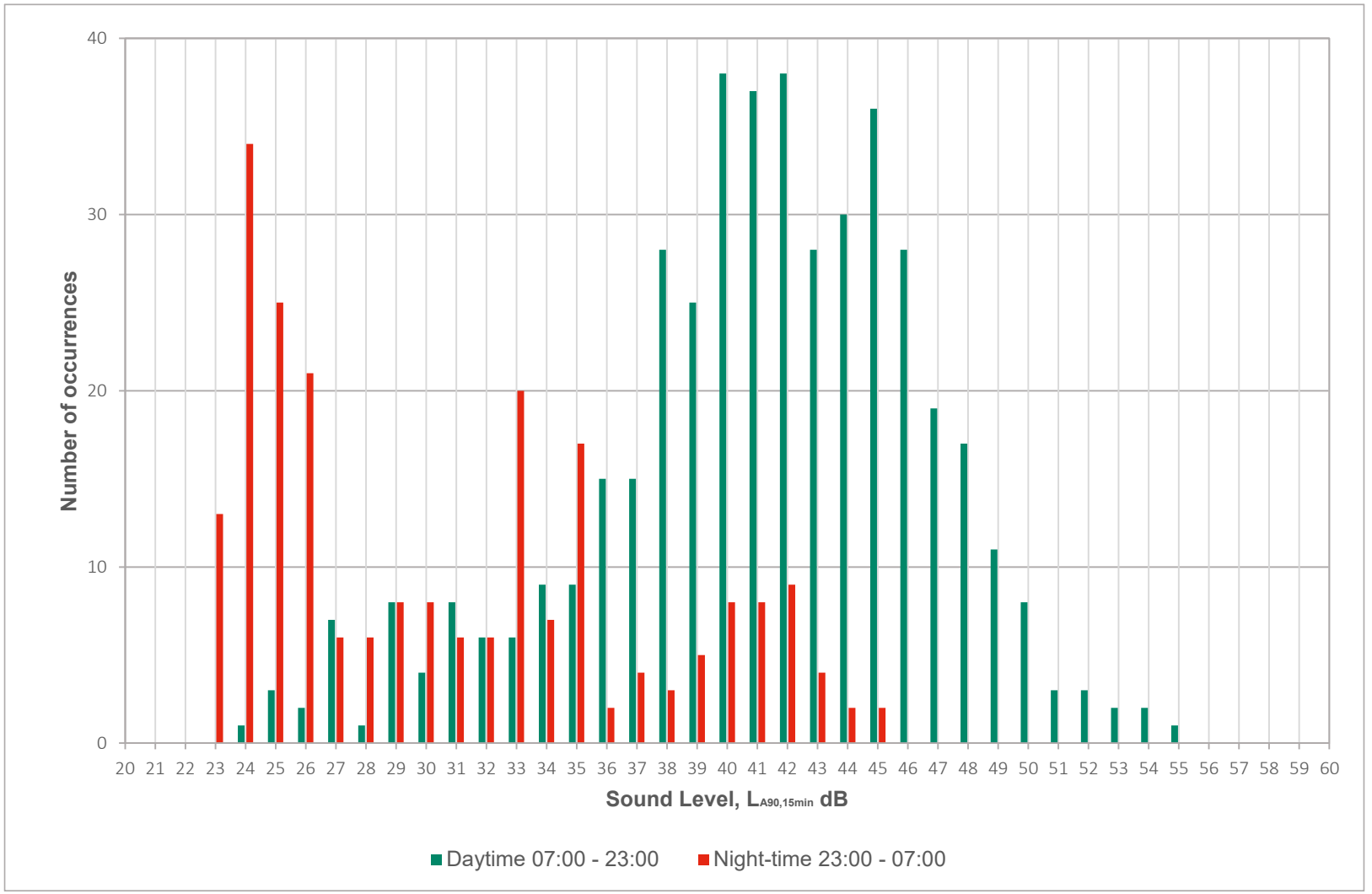


**Figure 6-14: ML17 Histogram Plot**

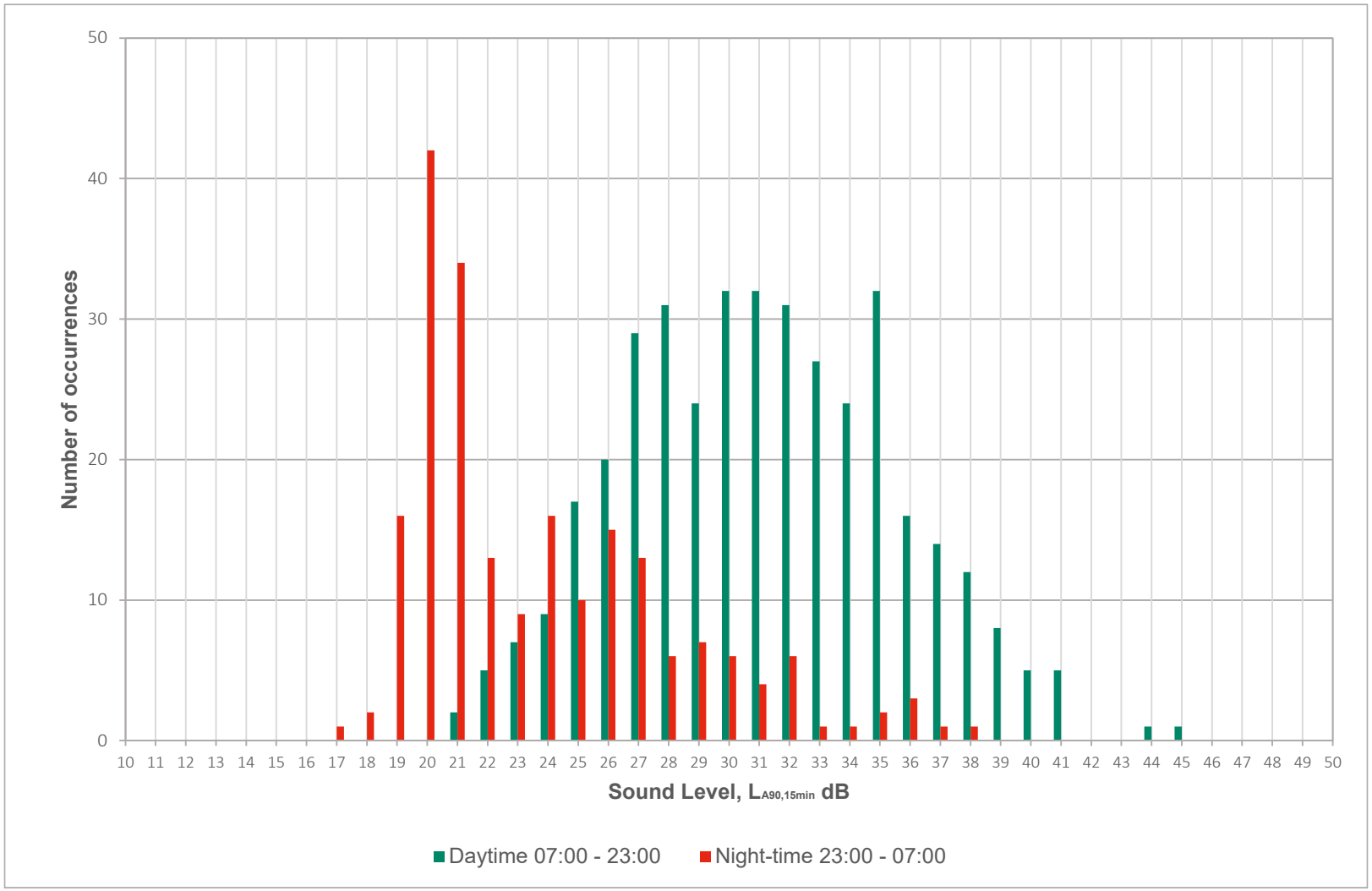


**Figure 6-15: ML19 Histogram Plot**

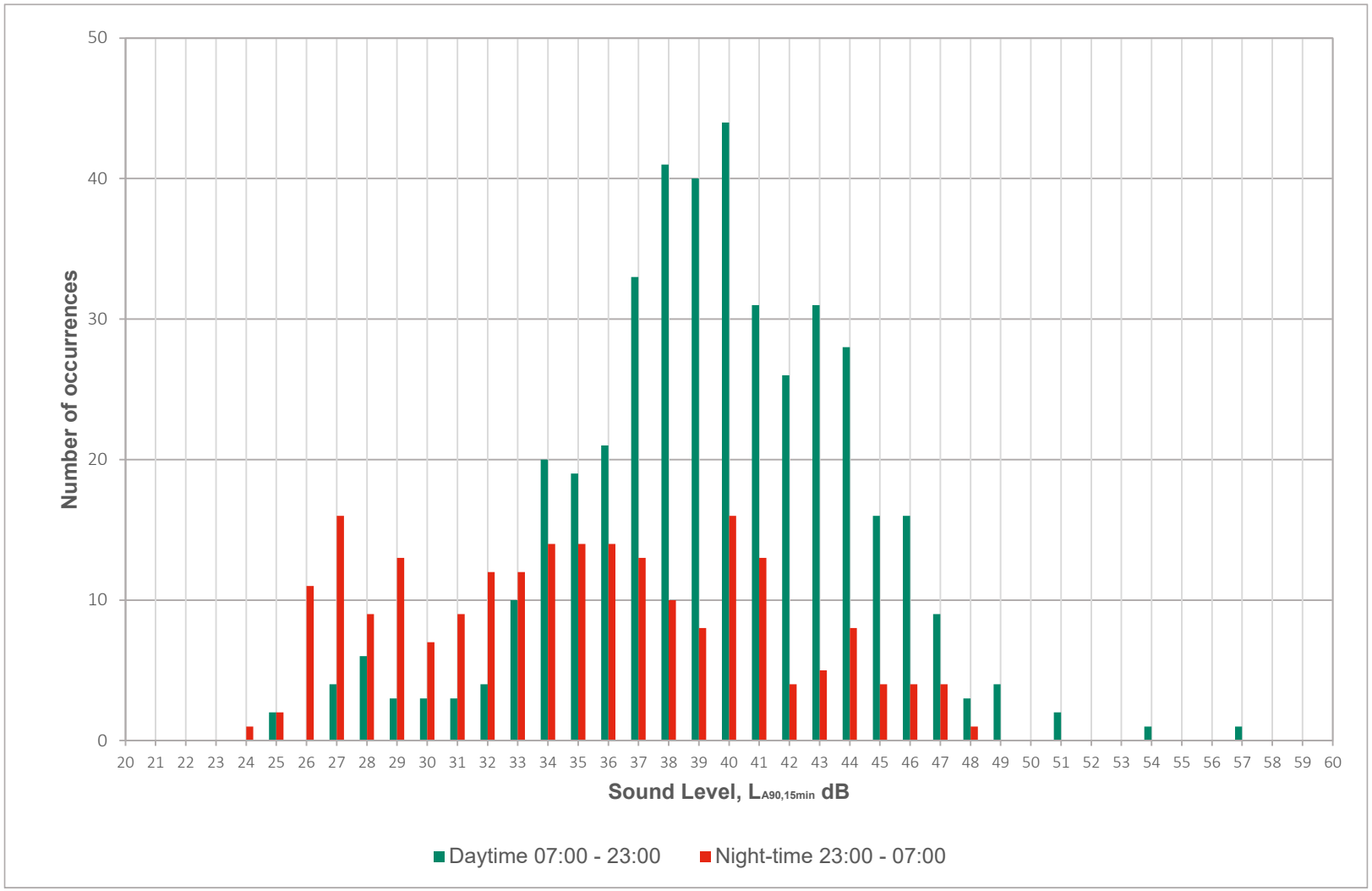


**Figure 6-16: ML21 Histogram Plot**

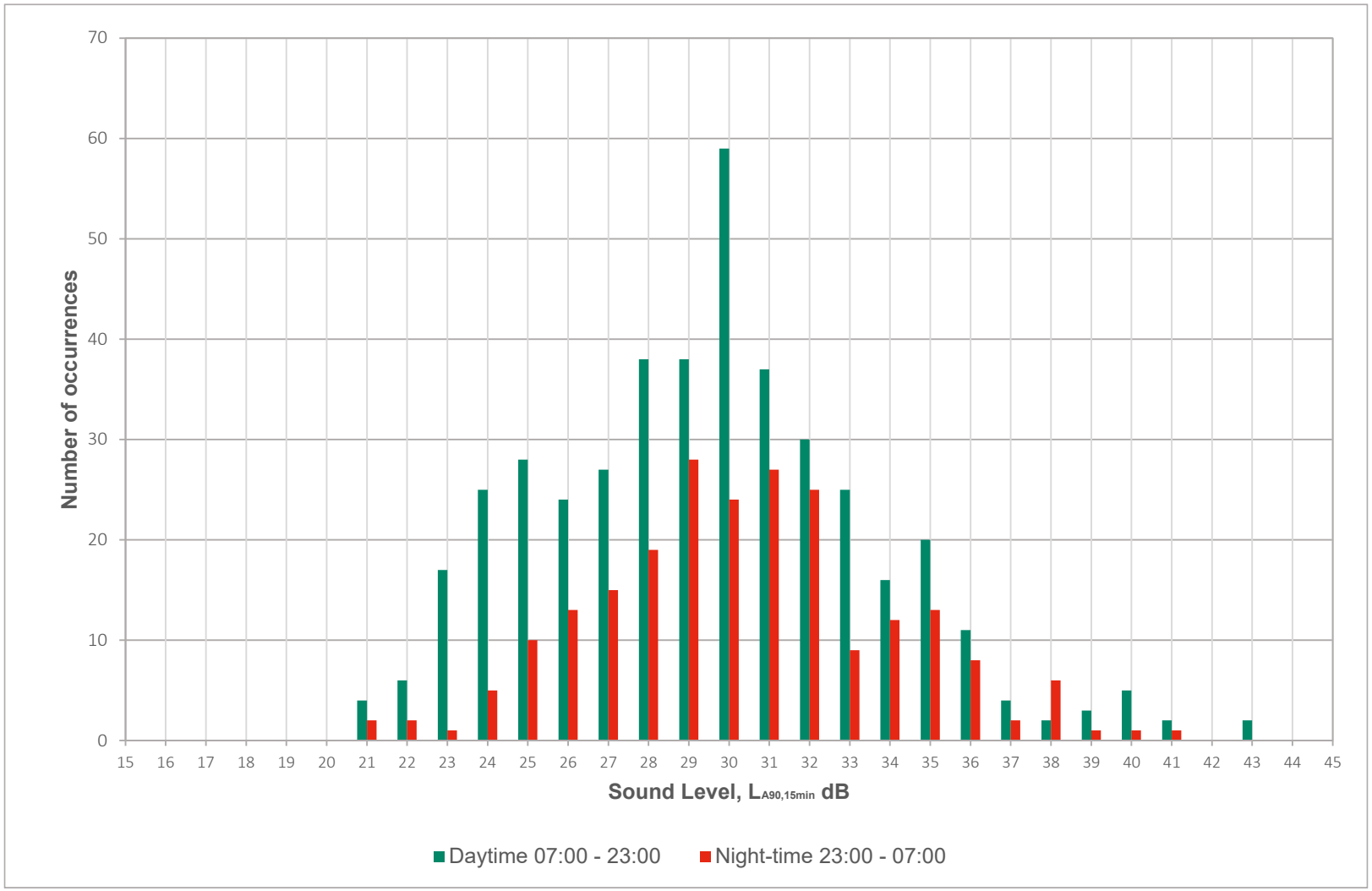


**Figure 6-17: ML22 Histogram Plot**

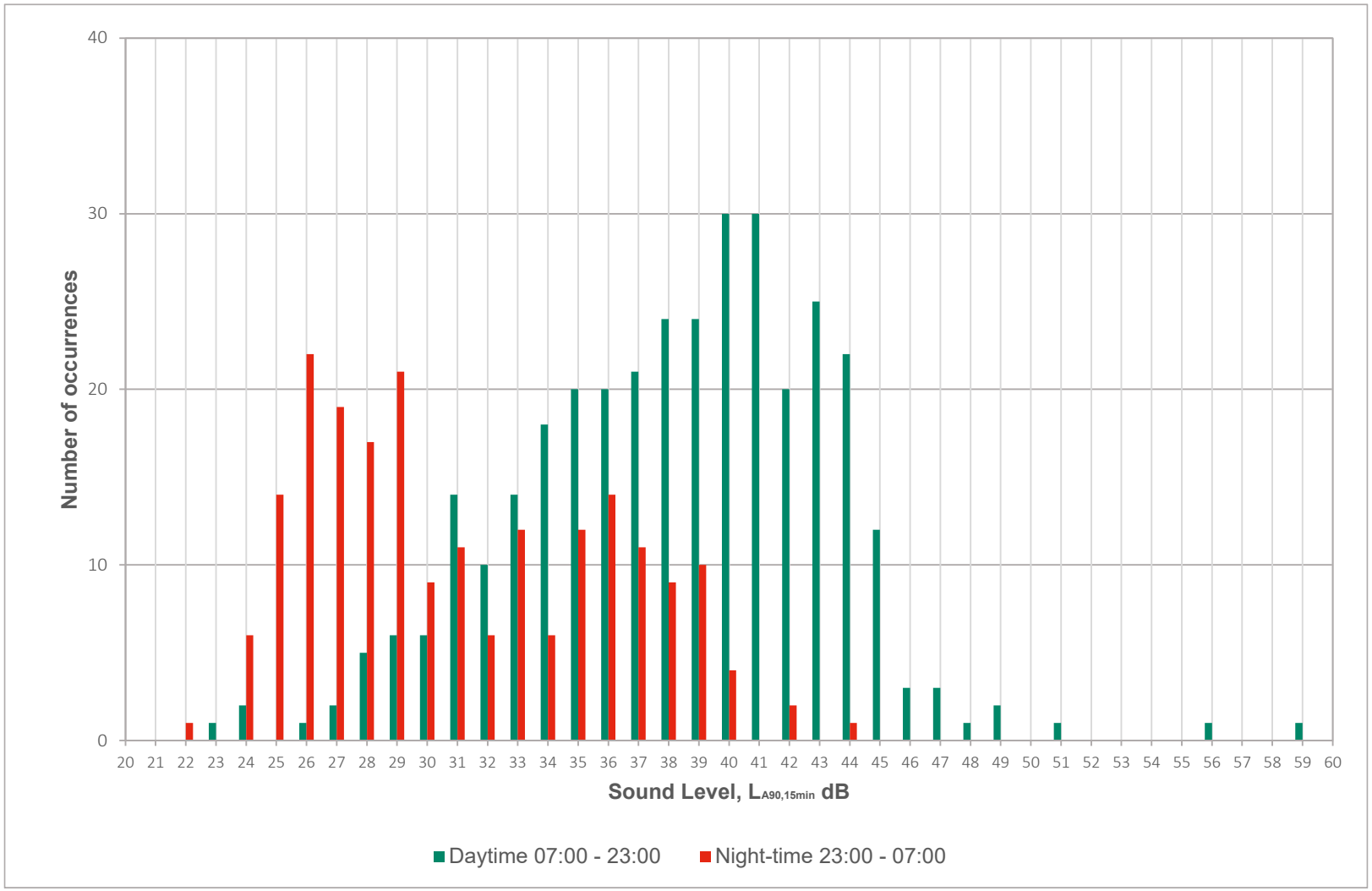


**Figure 6-18: ML23 Histogram Plot**

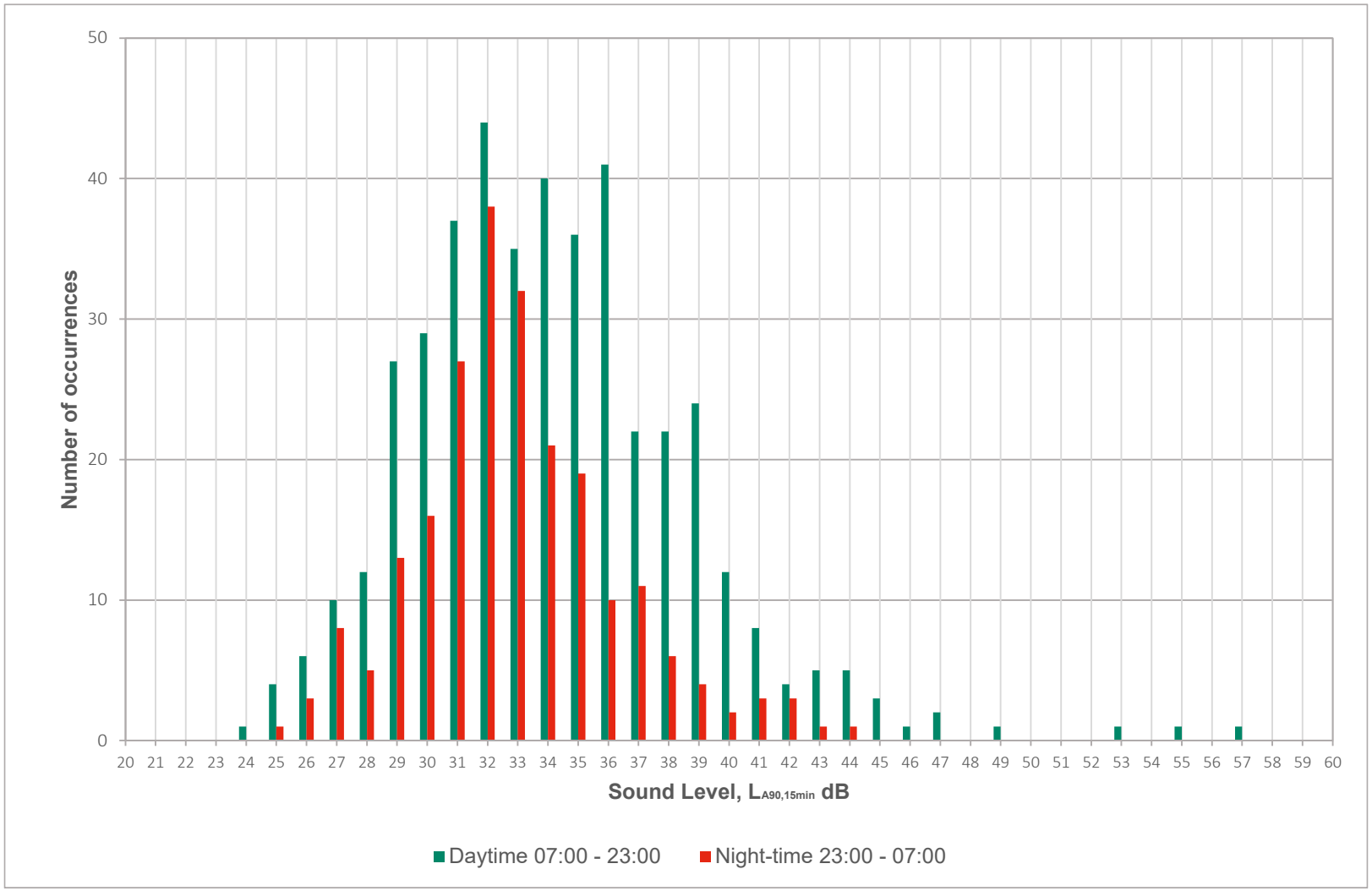


**Figure 6-19: ML24 Histogram Plot**

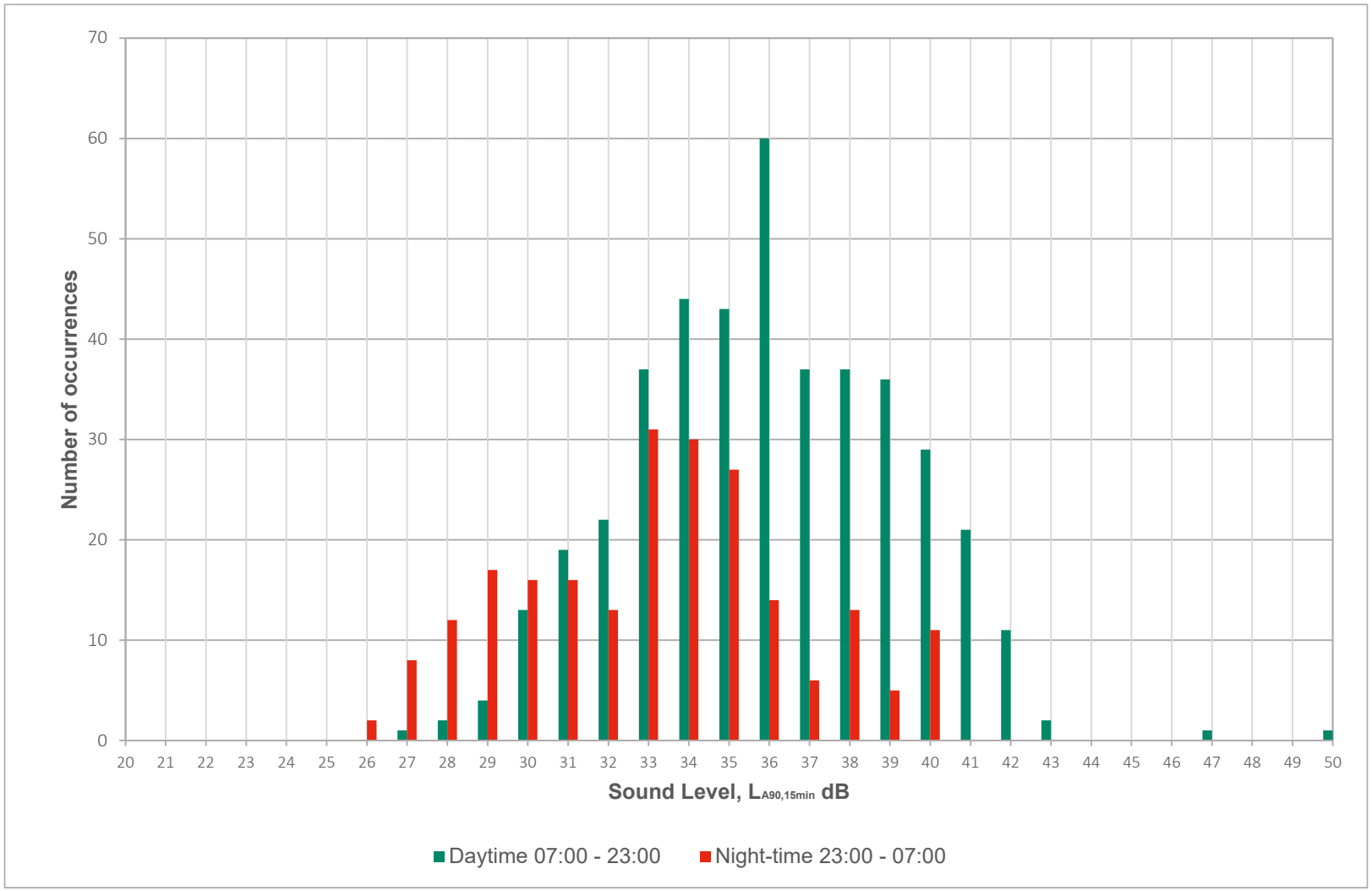


**Figure 6-20: ML25 Histogram Plot**

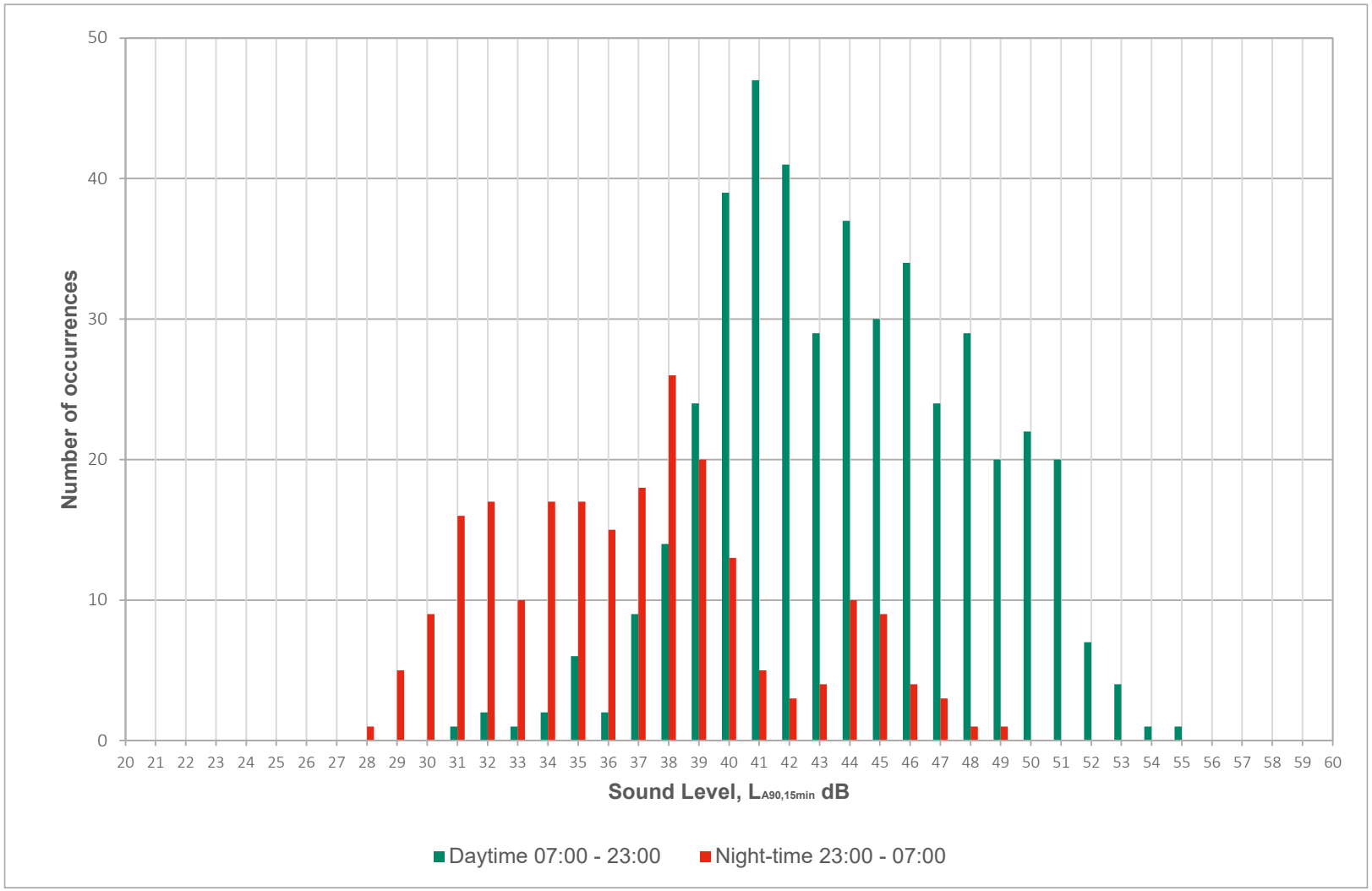


**Figure 6-21: ML26 Histogram Plot**

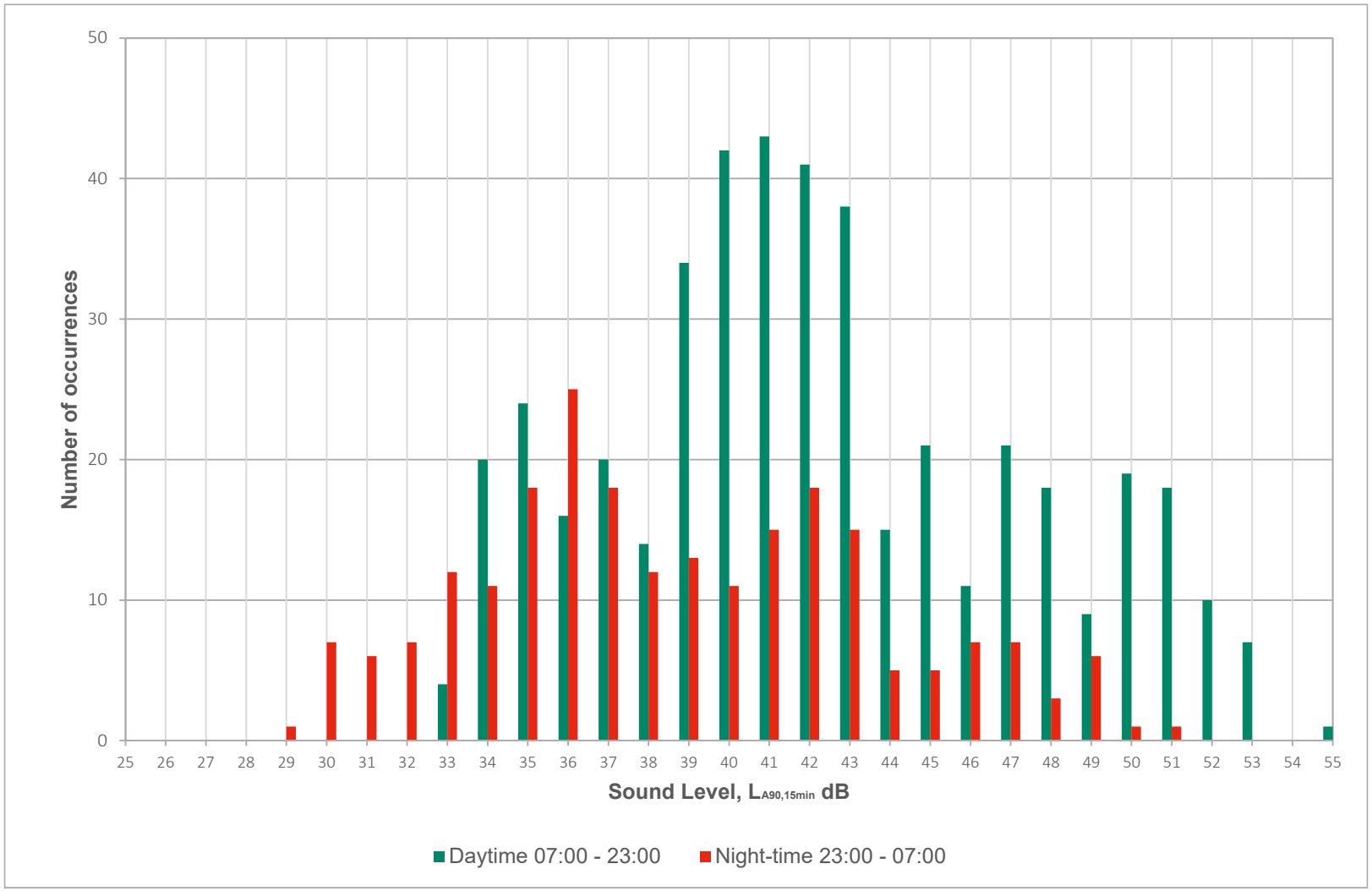


**Figure 6-22: ML27 Histogram Plot**

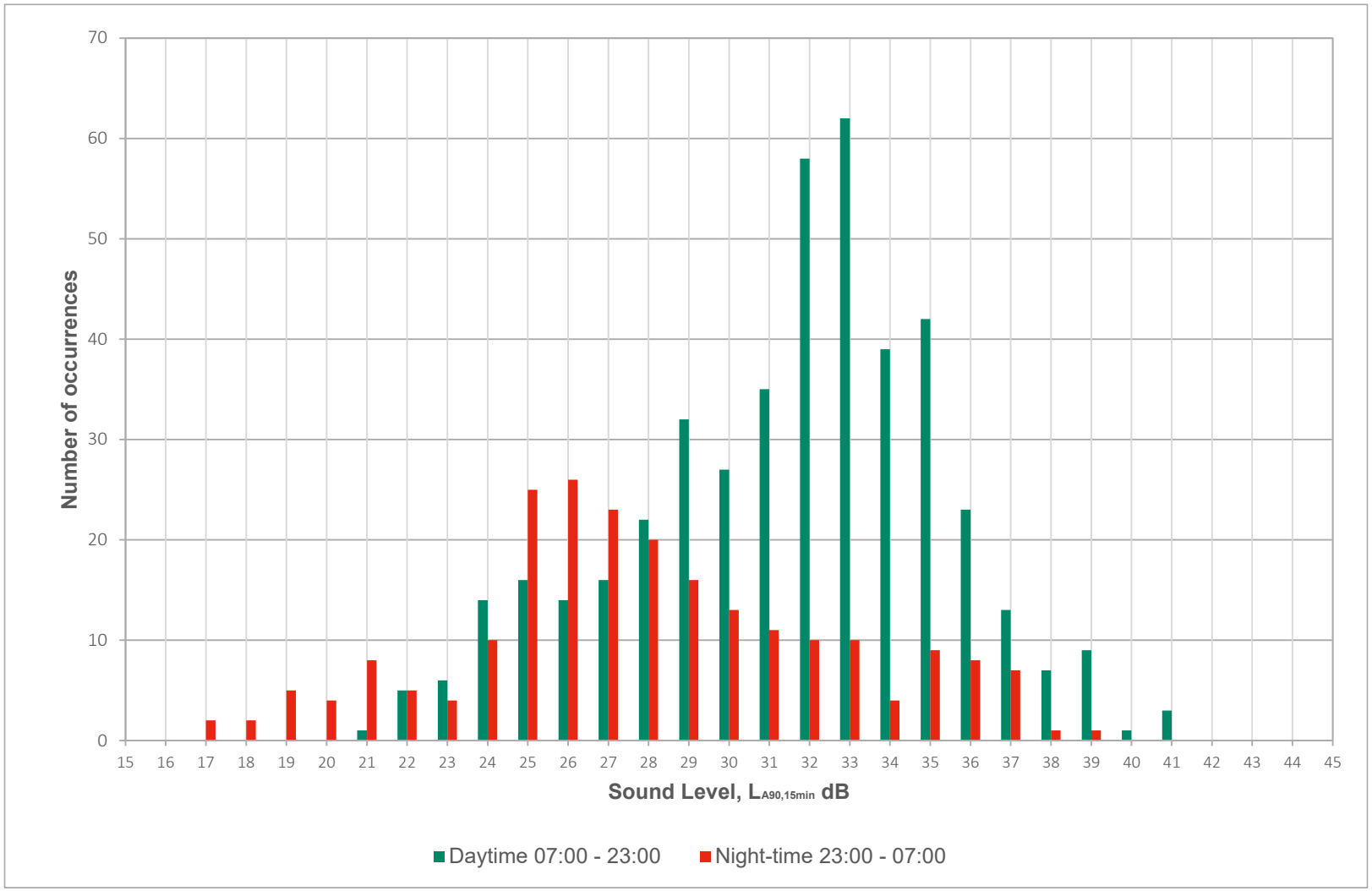


**Figure 6-23: ML28 Histogram Plot**

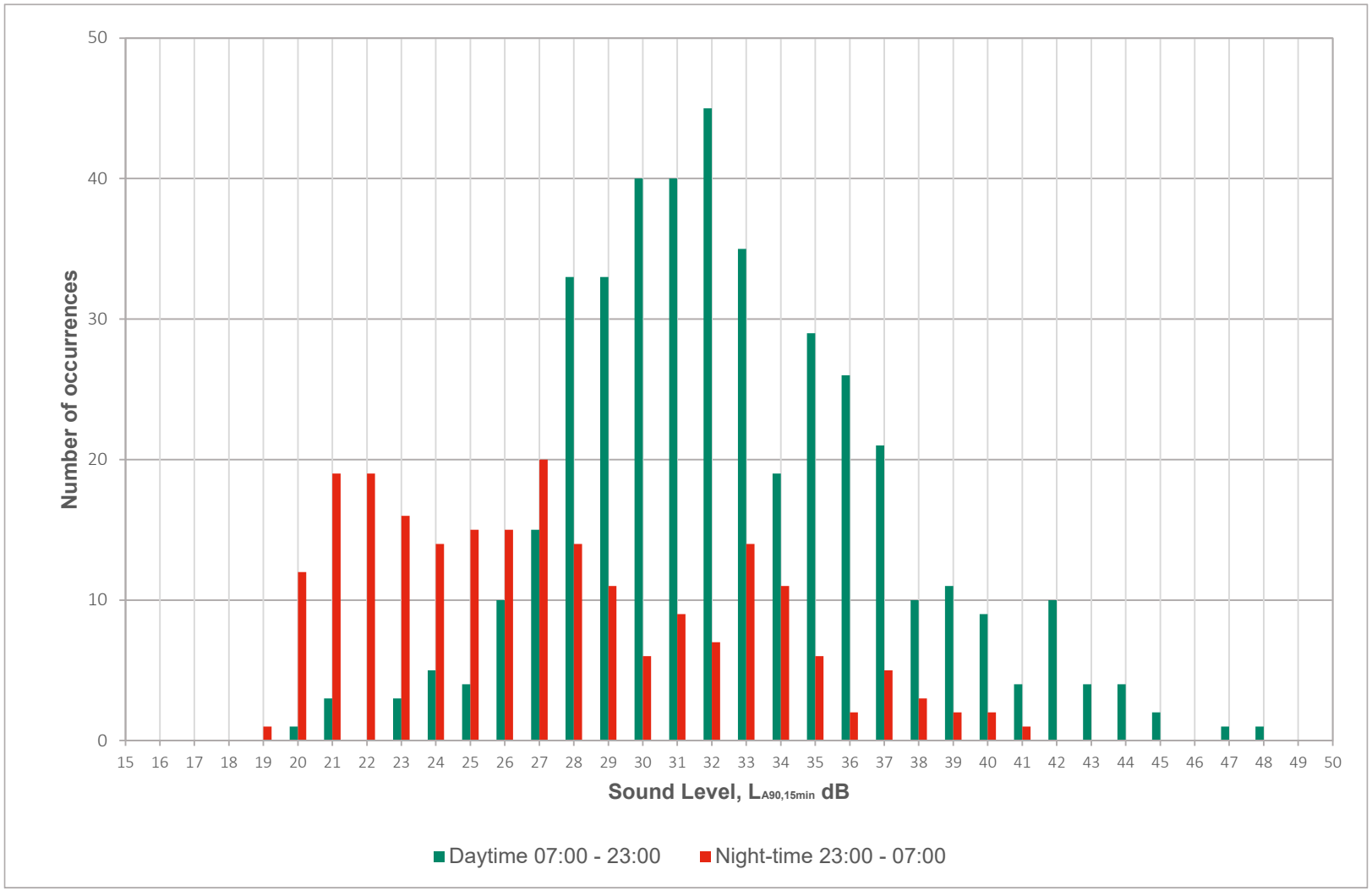


**Figure 6-24: ADD01 Histogram Plot**

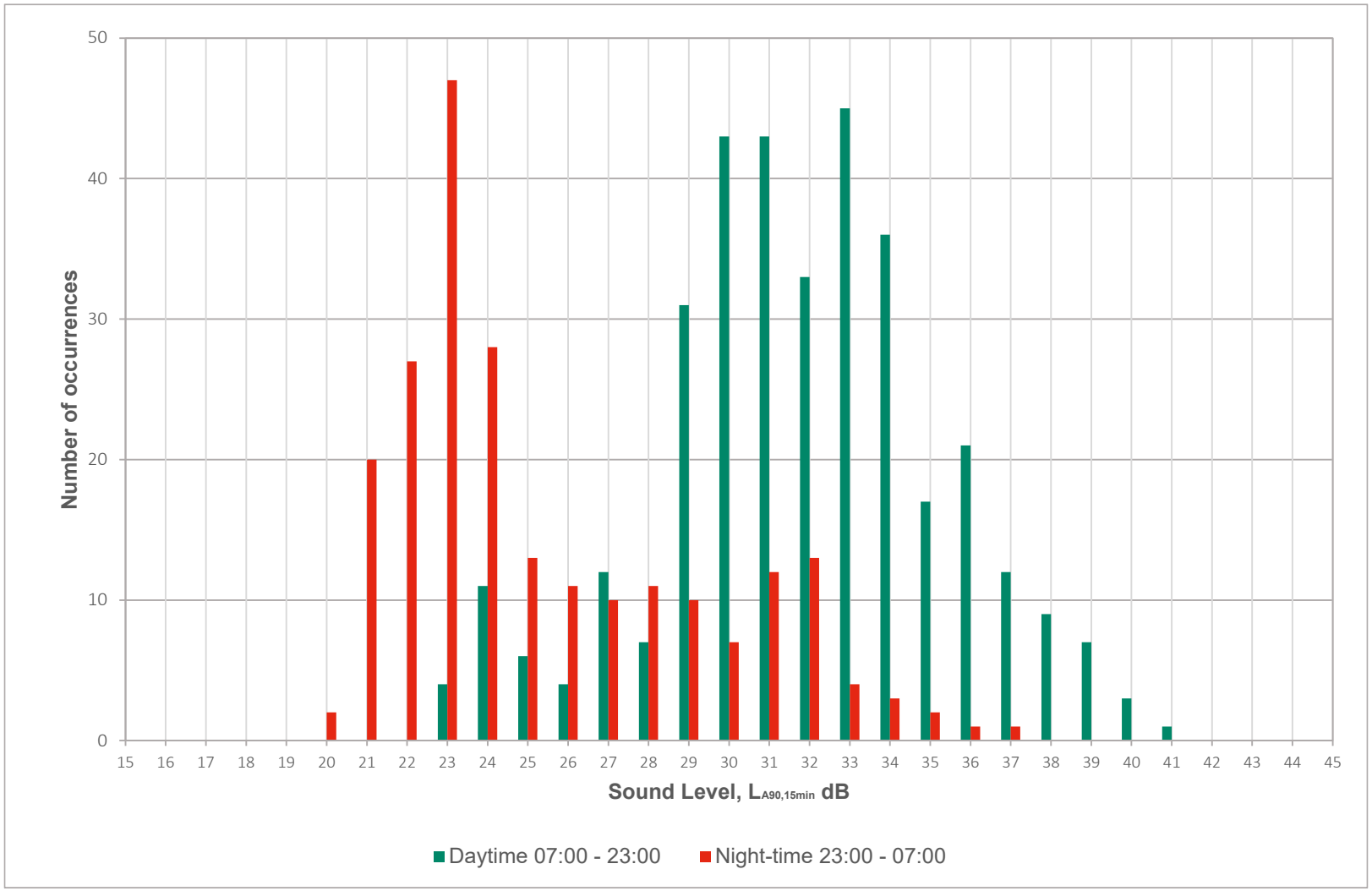


**Figure 6-25: ADD02 Histogram Plot**

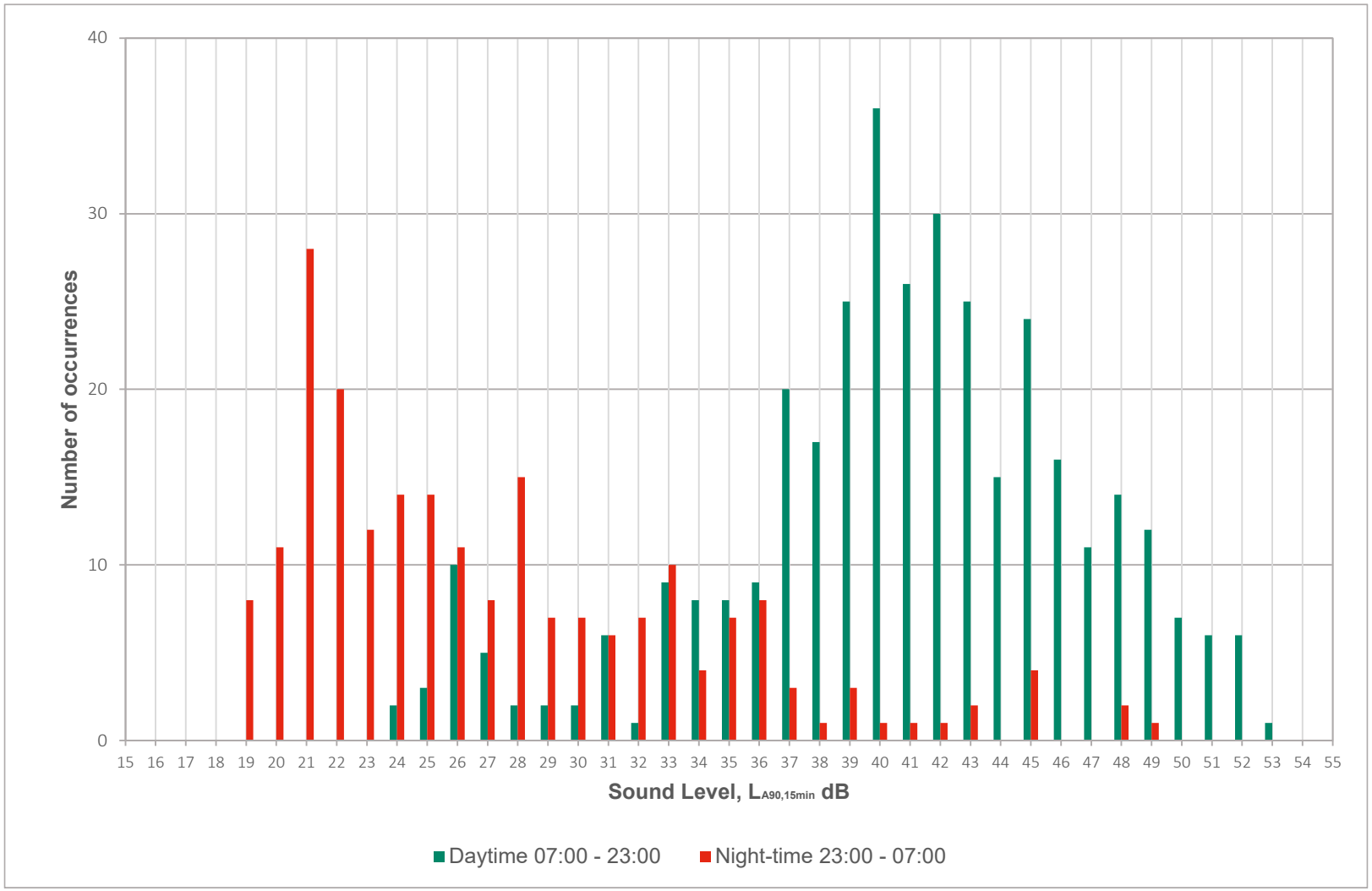


**Figure 6-26: ADD03 Histogram Plot**