

# FLUGLÄRM-MESSSTATION VERKEHRSFLUGHAFEN SYLT

Messergebnisse für die Standorte  
Wenningstedt, Dünenstraße 17 und  
Keitum/Sylt-Ost, Park & Ride Parkplatz

Januar 2023

## IMPRESSUM

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## 1 Begriffe (gemäß DIN 45643, 2011-02)

### **A-bewerteter äquivalenter Dauerschalldruckpegel des Gesamtgeräusches $L_{p,A,eq,T}$**

10-facher dekadischer Logarithmus des über ein Zeitintervall T gemittelten Quadrates des Verhältnisses des A-bewerteten Schalldrucks zum Bezugsschalldruck von 20  $\mu$ Pa in Dezibel,

### **A-bewerteter äquivalenter Dauerschalldruckpegel des Fluggeräusches $L_{p,A,eq,FI,T}$**

Mittelungspegel, gebildet aus den A-bewerteten Einzelereignis-Schalldruckpegeln der in einem anzugebenden Zeitintervall T auftretenden Fluggeräusches,

### **AS-bewerteter Maximalschalldruckpegel $L_{p,AS,max,i}$**

Maximalwert des AS-bewerteten Schalldruckpegels des i-ten Einzelgeräuschereignisses,

### **Gesamtgeräusch**

Summe aller akustischen Immissionen in einer gegebenen Situation zu einer gegebenen Zeit, die sich in der Regel aus Geräuschen von mehreren Quellen zusammensetzt,

### **Fluggeräusch**

Von einem Luftfahrzeug während seines Betriebs vom Beginn des Startrollvorgangs bis zum Verlassen der Landebahn nach der Landung erzeugtes Geräusch,

### **Fluggeräusch-Ereignisse N1**

Anzahl der durch Klassifizierung oder Identifizierung ermittelten Einzelschallereignisse am Messort, die von Luftfahrzeugbewegungen erzeugt wurden, die dem Flugplatz zuzuordnen sind,

### **mittlerer AS-bewerteter Maximalschalldruckpegel $L_{max,AS,T}$**

Energetisch gemittelter AS-bewerteter Maximalschalldruckpegel, gemittelt über die Maximalschalldruckpegel, die in einem betrachteten Zeitintervall T anfallen.

## 2 Lageplan mit stationären Fluglärm-Messtationen





Messstation 1: Wenningstedt, Dünenstraße 17



Messstation 2: Keitum/Sylt-Ost, Park & Ride Parkplatz



### 3 Messstellenstatistik

#### 3.1 Statistik Standort 1 - Wenningstedt, Dünenstraße 17

| Datum      | Ereignisse               |       |                                       |       | Verfügbarkeit |       |         | Gesamtgeräusch<br>(Äquivalenter Dauerschalldruckpegel) |  |  | Fluggeräusch<br>(Äquivalenter Dauerschalldruckpegel)  |   |   |
|------------|--------------------------|-------|---------------------------------------|-------|---------------|-------|---------|--|--|--|---|---|---|
|            | Anzahl<br>Flugbewegungen |       | Anzahl<br>Fluggeräusch-<br>ereignisse |       | [%]           |       | Ausfall | L <sub>p,A,eq,(24h)</sub><br>06:00-05:59 h<br>[dB]     | L <sub>p,A,eq,Tag</sub><br>06:00-21:59 h<br>[dB] | L <sub>p,A,eq,Nacht</sub><br>22:00-05:59 h<br>[dB] | L <sub>p,A,eq,FI,(24h)</sub><br>06:00-05:59 h<br>[dB] | L <sub>p,A,eq,FI,Tag</sub><br>06:00-21:59 h<br>[dB] | L <sub>p,A,eq,FI,Nacht</sub><br>22:00-05:59 h<br>[dB] |
|            | Tag                      | Nacht | Tag                                   | Nacht | Tag           | Nacht |         |  |  |  |   |   |   |
| 01.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 62.7   | 64.2   | 55.2   | 42.7  | 44.5  |   |
| 02.01.2023 | 7                        | 0     | 7                                     | 0     | 100.0         |       |         | 59.2   | 58.8   | 60.0   | 42.5  | 44.3  |   |
| 03.01.2023 | 6                        | 0     | 5                                     | 0     | 83.3          |       |         | 59.5   | 56.3   | 62.6   | 39.5  | 41.2  |   |
| 04.01.2023 | 4                        | 0     | 3                                     | 0     | 75.0          |       |         | 71.9   | 66.5   | 75.7   | 41.3  | 43.1  |   |
| 05.01.2023 | 6                        | 0     | 6                                     | 0     | 100.0         |       |         | 67.9   | 69.5   | 57.5   | 39.7  | 41.5  |   |
| 06.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 60.5   | 61.6   | 57.0   | 41.0  | 42.7  |   |
| 07.01.2023 | 9                        | 0     | 9                                     | 0     | 100.0         |       |         | 60.9   | 60.5   | 61.6   | 44.7  | 46.4  |   |
| 08.01.2023 | 7                        | 0     | 7                                     | 0     | 100.0         |       |         | 56.1   | 56.7   | 54.5   | 43.6  | 45.3  |   |
| 09.01.2023 | 1                        | 0     | 1                                     | 0     | 100.0         |       |         | 55.3   | 55.5   | 54.9   | 32.8  | 34.6  |   |
| 10.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 65.3   | 59.8   | 69.2   | 36.7  | 38.5  |   |
| 11.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 61.8   | 60.5   | 63.6   | 39.8  | 41.6  |   |
| 12.01.2023 | 0                        | 0     | 0                                     | 0     |               |       |         | 62.0   | 59.7   | 64.7   |   |   |   |
| 13.01.2023 | 5                        | 0     | 5                                     | 0     | 100.0         |       |         | 71.9   | 73.0   | 68.0   | 47.5  | 49.2  |   |
| 14.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 67.6   | 64.5   | 70.7   | 36.7  | 38.5  |   |
| 15.01.2023 | 0                        | 0     | 0                                     | 0     |               |       |         | 77.4   | 79.0   | 65.4   |   |   |   |
| 16.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 60.2   | 54.2   | 64.2   | 34.1  | 35.9  |   |
| 17.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 72.6   | 74.1   | 64.2   | 42.0  | 43.7  |   |
| 18.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 66.3   | 60.6   | 70.2   | 37.4  | 39.1  |   |
| 19.01.2023 | 13                       | 0     | 13                                    | 0     | 100.0         |       |         | 65.1   | 66.4   | 59.7   | 44.8  | 46.5  |   |
| 20.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 52.3   | 52.5   | 51.9   | 35.4  | 37.2  |   |
| 21.01.2023 | 0                        | 0     | 0                                     | 0     |               |       |         | 48.9   | 49.0   | 48.6   |   |   |   |
| 22.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 47.6   | 45.7   | 49.9   | 19.9  | 21.7  |   |
| 23.01.2023 | 0                        | 0     | 0                                     | 0     |               |       |         | 51.1   | 47.7   | 54.4   |   |   |   |
| 24.01.2023 | 7                        | 0     | 6                                     | 0     | 85.7          |       |         | 53.4   | 52.5   | 54.7   | 37.2  | 38.9  |   |
| 25.01.2023 | 0                        | 0     | 0                                     | 0     |               |       |         | 57.2   | 58.0   | 54.8   |   |   |   |

| Datum              | Ereignisse               |          |                                       |          | Verfügbarkeit |       |         | Gesamtgeräusch<br>(Äquivalenter Dauerschalldruckpegel) |  |  | Fluggeräusch<br>(Äquivalenter Dauerschalldruckpegel)  |   |   |
|--------------------|--------------------------|----------|---------------------------------------|----------|---------------|-------|---------|--|--|--|---|---|---|
|                    | Anzahl<br>Flugbewegungen |          | Anzahl<br>Fluggeräusch-<br>ereignisse |          | [%]           |       | Ausfall | L <sub>p,A,eq,(24h)</sub><br>06:00-05:59 h<br>[dB]     | L <sub>p,A,eq,Tag</sub><br>06:00-21:59 h<br>[dB] | L <sub>p,A,eq,Nacht</sub><br>22:00-05:59 h<br>[dB] | L <sub>p,A,eq,Fl,(24h)</sub><br>06:00-05:59 h<br>[dB] | L <sub>p,A,eq,Fl,Tag</sub><br>06:00-21:59 h<br>[dB] | L <sub>p,A,eq,Fl,Nacht</sub><br>22:00-05:59 h<br>[dB] |
|                    | Tag                      | Nacht    | Tag                                   | Nacht    | Tag           | Nacht |         |  |  |  |   |   |   |
| <b>26.01.2023</b>  | 4                        | 0        | 3                                     | 0        | 75.0          |       |         | 54.0   | 54.5   | 52.7   | 39.5  | 41.3  |   |
| <b>27.01.2023</b>  | 6                        | 0        | 6                                     | 0        | 100.0         |       |         | 52.2   | 51.6   | 53.1   | 38.4  | 40.2  |   |
| <b>28.01.2023</b>  | 4                        | 0        | 3                                     | 0        | 75.0          |       |         | 55.1   | 54.9   | 55.3   | 40.4  | 42.1  |   |
| <b>29.01.2023</b>  | 5                        | 0        | 5                                     | 0        | 100.0         |       |         | 67.7   | 64.4   | 70.8   | 41.5  | 43.2  |   |
| <b>30.01.2023</b>  | 6                        | 0        | 6                                     | 0        | 100.0         |       |         | 77.3   | 78.8   | 70.3   | 53.3  | 55.0  |   |
| <b>31.01.2023</b>  | 3                        | 0        | 3                                     | 0        | 100.0         |       |         | 76.3   | 76.1   | 76.8   | 43.5  | 45.3  |   |
| <b>Summenwerte</b> | <b>118</b>               | <b>0</b> | <b>113</b>                            | <b>0</b> | <b>95.8</b>   |       |         | <b>68.9</b>  | <b>69.5</b>                                      | <b>67.3</b>  | <b>42.5</b>   | <b>44.2</b>   | <b>0.0</b>  |

Eine von 100 % abweichende Verfügbarkeit erfasster Fluglärmereignisse ergibt sich durch „technischen oder wetterbedingtem Ausfall“ (was entsprechend vermerkt wird) oder durch messtechnisch nicht erfasster Flugbewegungen, was i. d. R. bei 1 - motorigen Flugzeugen und Hubschraubern auftreten kann, wenn der An - und Abflug im Bereich der Messstationen nicht entlang der „Centerline“ erfolgt.

T = Technischer Ausfall; W = Wetterbedingter Ausfall



### 3.2 Statistik Standort 2 - Keitum/Sylt-Ost, Park & Ride Parkplatz

| Datum      | Ereignisse               |       |                                       |       | Verfügbarkeit |       |         | Gesamtgeräusch<br>(Äquivalenter Dauerschalldruckpegel) |  |  | Fluggeräusch<br>(Äquivalenter Dauerschalldruckpegel)  |   |   |
|------------|--------------------------|-------|---------------------------------------|-------|---------------|-------|---------|--|--|--|---|---|---|
|            | Anzahl<br>Flugbewegungen |       | Anzahl<br>Fluggeräusch-<br>ereignisse |       | [%]           |       | Ausfall | L <sub>p,A,eq,(24h)</sub><br>06:00-05:59 h<br>[dB]     | L <sub>p,A,eq,Tag</sub><br>06:00-21:59 h<br>[dB] | L <sub>p,A,eq,Nacht</sub><br>22:00-05:59 h<br>[dB] | L <sub>p,A,eq,Fl,(24h)</sub><br>06:00-05:59 h<br>[dB] | L <sub>p,A,eq,Fl,Tag</sub><br>06:00-21:59 h<br>[dB] | L <sub>p,A,eq,Fl,Nacht</sub><br>22:00-05:59 h<br>[dB] |
|            | Tag                      | Nacht | Tag                                   | Nacht | Tag           | Nacht |         |  |  |  |   |   |   |
| 01.01.2023 | 4                        | 0     | 4                                     | 0     | 100.0         |       |         | 64.2   | 65.8   | 51.3   | 45.0  | 46.8  |   |
| 02.01.2023 | 12                       | 0     | 12                                    | 0     | 100.0         |       |         | 58.4   | 59.9   | 50.9   | 50.7  | 52.4  |   |
| 03.01.2023 | 10                       | 0     | 10                                    | 0     | 100.0         |       |         | 65.0   | 59.2   | 68.9   | 47.0  | 48.8  |   |
| 04.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 67.6   | 68.2   | 66.0   | 44.3  | 46.1  |   |
| 05.01.2023 | 12                       | 0     | 12                                    | 0     | 100.0         |       |         | 60.6   | 61.6   | 57.7   | 48.5  | 50.3  |   |
| 06.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 61.7   | 63.3   | 53.2   | 43.5  | 45.3  |   |
| 07.01.2023 | 4                        | 0     | 4                                     | 0     | 100.0         |       |         | 62.8   | 61.6   | 64.6   | 46.2  | 48.0  |   |
| 08.01.2023 | 11                       | 0     | 11                                    | 0     | 100.0         |       |         | 57.3   | 58.3   | 54.3   | 49.1  | 50.8  |   |
| 09.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 56.7   | 58.3   | 45.0   | 44.3  | 46.1  |   |
| 10.01.2023 | 7                        | 0     | 7                                     | 0     | 100.0         |       |         | 71.5   | 64.9   | 75.6   | 42.0  | 43.8  |   |
| 11.01.2023 | 4                        | 0     | 4                                     | 0     | 100.0         |       |         | 62.6   | 61.9   | 63.7   | 47.0  | 48.8  |   |
| 12.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 61.9   | 61.6   | 62.4   | 44.0  | 45.8  |   |
| 13.01.2023 | 6                        | 0     | 6                                     | 0     | 100.0         |       |         | 68.8   | 70.4   | 56.7   | 48.4  | 50.1  |   |
| 14.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 68.2   | 67.5   | 69.4   | 36.7  | 38.4  |   |
| 15.01.2023 | 0                        | 0     | 0                                     | 0     |               |       |         | 76.0   | 77.7   | 56.7   |   |   |   |
| 16.01.2023 | 5                        | 0     | 5                                     | 0     | 100.0         |       |         | 57.7   | 58.4   | 55.5   | 43.1  | 44.9  |   |
| 17.01.2023 | 3                        | 0     | 3                                     | 0     | 100.0         |       |         | 62.7   | 64.1   | 55.9   | 44.1  | 45.9  |   |
| 18.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 63.6   | 62.5   | 65.2   | 37.6  | 39.3  |   |
| 19.01.2023 | 11                       | 0     | 11                                    | 0     | 100.0         |       |         | 57.6   | 59.2   | 48.1   | 43.7  | 45.5  |   |
| 20.01.2023 | 8                        | 0     | 8                                     | 0     | 100.0         |       |         | 55.8   | 57.4   | 46.1   | 45.0  | 46.7  |   |
| 21.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 54.9   | 56.2   | 49.1   | 47.2  | 49.0  |   |
| 22.01.2023 | 5                        | 0     | 5                                     | 0     | 100.0         |       |         | 52.1   | 53.7   | 44.3   | 44.3  | 46.0  |   |
| 23.01.2023 | 2                        | 0     | 2                                     | 0     | 100.0         |       |         | 55.4   | 57.1   | 42.0   | 39.8  | 41.5  |   |
| 24.01.2023 | 7                        | 0     | 7                                     | 0     | 100.0         |       |         | 55.6   | 57.2   | 45.8   | 38.8  | 40.5  |   |
| 25.01.2023 | 0                        | 0     | 0                                     | 0     |               |       |         | 57.0   | 58.6   | 48.3   |   |   |   |
| 26.01.2023 | 7                        | 0     | 7                                     | 0     | 100.0         |       |         | 56.4   | 57.9   | 49.3   | 44.3  | 46.1  |   |
| 27.01.2023 | 10                       | 0     | 10                                    | 0     | 100.0         |       |         | 55.8   | 57.5   | 45.4   | 45.8  | 47.5  |   |

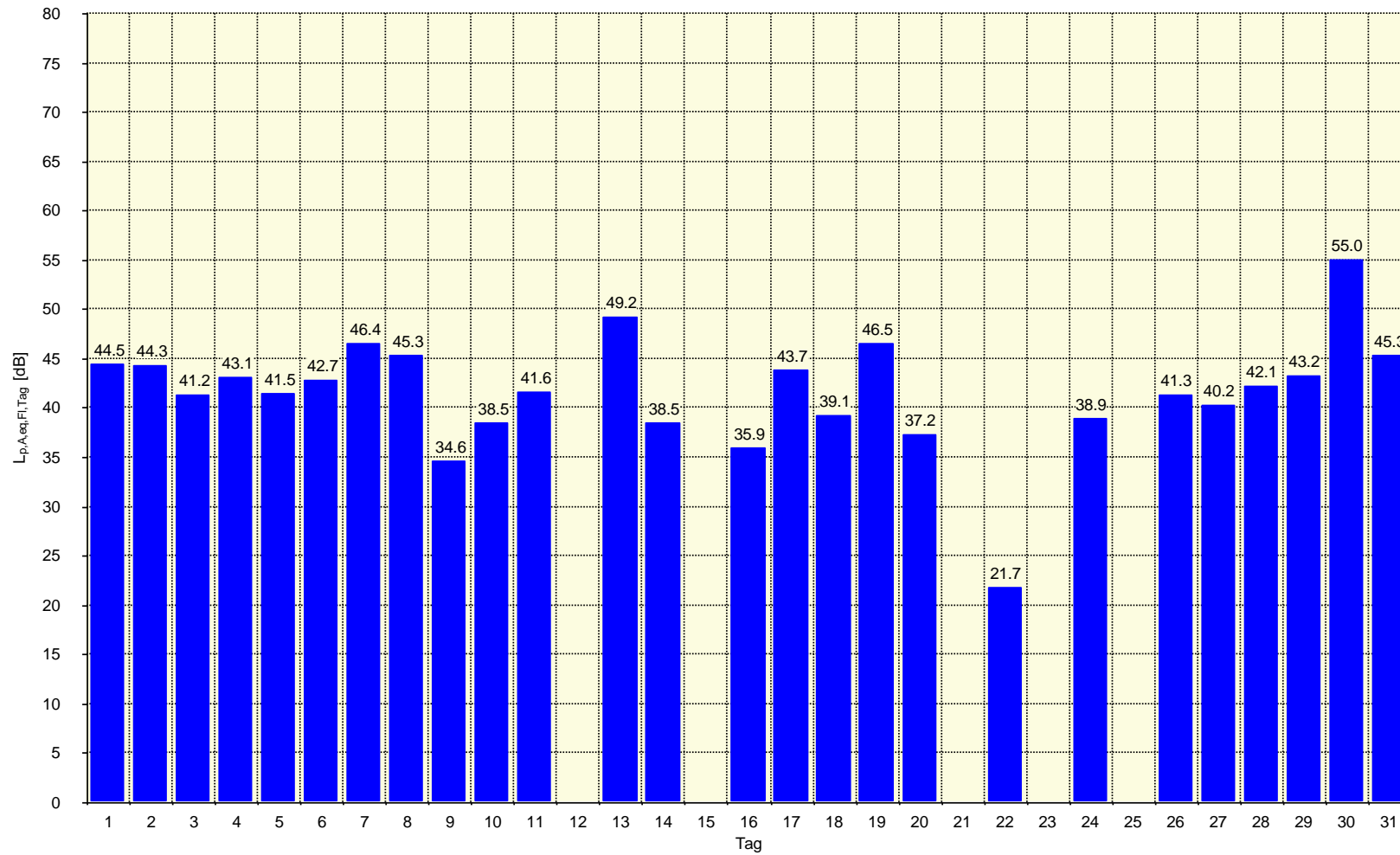
| Datum              | Ereignisse               |          |                                       |          | Verfügbarkeit |       |         | Gesamtgeräusch<br>(Äquivalenter Dauerschalldruckpegel) |  |  | Fluggeräusch<br>(Äquivalenter Dauerschalldruckpegel)  |   |   |
|--------------------|--------------------------|----------|---------------------------------------|----------|---------------|-------|---------|--|--|--|---|---|---|
|                    | Anzahl<br>Flugbewegungen |          | Anzahl<br>Fluggeräusch-<br>ereignisse |          | [%]           |       | Ausfall | L <sub>p,A,eq,(24h)</sub><br>06:00-05:59 h<br>[dB]     | L <sub>p,A,eq,Tag</sub><br>06:00-21:59 h<br>[dB] | L <sub>p,A,eq,Nacht</sub><br>22:00-05:59 h<br>[dB] | L <sub>p,A,eq,Fl,(24h)</sub><br>06:00-05:59 h<br>[dB] | L <sub>p,A,eq,Fl,Tag</sub><br>06:00-21:59 h<br>[dB] | L <sub>p,A,eq,Fl,Nacht</sub><br>22:00-05:59 h<br>[dB] |
|                    | Tag                      | Nacht    | Tag                                   | Nacht    | Tag           | Nacht |         |  |  |  |   |   |   |
| <b>28.01.2023</b>  | 3                        | 0        | 3                                     | 0        | 100.0         |       |         | 54.1   | 55.6   | 46.7   | 42.5  | 44.2  |   |
| <b>29.01.2023</b>  | 5                        | 0        | 5                                     | 0        | 100.0         |       |         | 63.9   | 62.6   | 65.6   | 42.2  | 44.0  |   |
| <b>30.01.2023</b>  | 4                        | 0        | 4                                     | 0        | 100.0         |       |         | 66.2   | 67.7   | 56.7   | 43.6  | 45.3  |   |
| <b>31.01.2023</b>  | 4                        | 0        | 4                                     | 0        | 100.0         |       |         | 66.3   | 66.9   | 64.9   | 44.0  | 45.8  |   |
| <b>Summenwerte</b> | <b>161</b>               | <b>0</b> | <b>161</b>                            | <b>0</b> | <b>100.0</b>  |       |         | <b>65.4</b>  | <b>66.0</b>                                      | <b>64.0</b>  | <b>45.0</b>   | <b>46.8</b>   | <b>0.0</b>  |

Eine von 100 % abweichende Verfügbarkeit erfasster Fluglärmereignisse ergibt sich durch „technischen oder wetterbedingtem Ausfall“ (was entsprechend vermerkt wird) oder durch messtechnisch nicht erfasster Flugbewegungen, was i. d. R. bei 1 - motorigen Flugzeugen und Hubschraubern auftreten kann, wenn der An - und Abflug im Bereich der Messstationen nicht entlang der „Centerline“ erfolgt.

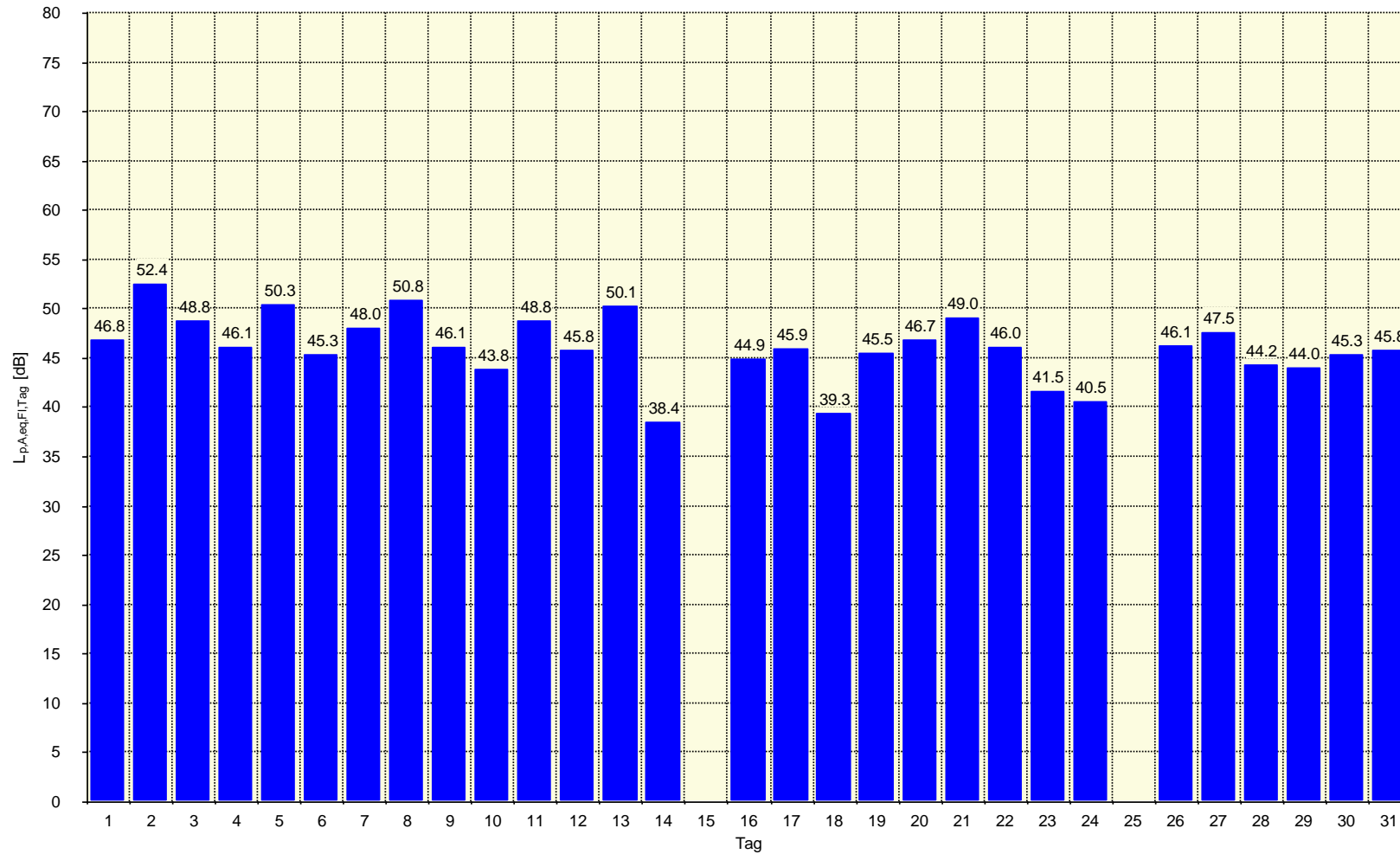
T = Technischer Ausfall; W = Wetterbedingter Ausfall

## 4 Äquivalenter Dauerschallpegel $L_{p,A,eq,FI,Tag}$ jedes Tages (Fluggeräusch)

### 4.1 $L_{p,A,eq,FI,Tag}$ Standort 1 - Wenningstedt, Dünenstraße 17



## 4.2 $L_{p,A,eq,FI,Tag}$ Standort 2 - Keitum/Sylt-Ost, Park & Ride Parkplatz



## **5 Äquivalenter Dauerschallpegel $L_{p,A,eq,FI,Nacht}$ jeder Nacht (Fluggeräusch)**

### **5.1 $L_{p,A,eq,FI,Nacht}$ Standort 1 - Wenningstedt, Dünenstraße 17**

Im Januar 2023 wurden keine Nachtflüge registriert!

### **5.2 $L_{p,A,eq,FI,Nacht}$ Standort 2 - Keitum/Sylt-Ost, Park & Ride Parkplatz**

Im Januar 2023 wurden keine Nachtflüge registriert!

## 6 Stundenbezogene äquivalente Dauerschallpegel $L_{p,A,eq,1h}$ (Gesamtgeräusch)

### 6.1 $L_{p,A,eq,1h}$ Standort 1 - Wenningstedt, Dünenstraße 17

|                                   | Äquivalenter Dauerschalldruckpegel $L_{p,A,eq,1h}$ [dB] |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|-----------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                   | 06:00 - 06:59   | 07:00 - 07:59 | 08:00 - 08:59 | 09:00 - 09:59 | 10:00 - 10:59 | 11:00 - 11:59 | 12:00 - 12:59 | 13:00 - 13:59 | 14:00 - 14:59 | 15:00 - 15:59 | 16:00 - 16:59 | 17:00 - 17:59 | 18:00 - 18:59 | 19:00 - 19:59 | 20:00 - 20:59 | 21:00 - 21:59 | 22:00 - 22:59 | 23:00 - 23:59 | 00:00 - 00:59 | 01:00 - 01:59 | 02:00 - 02:59 | 03:00 - 03:59 | 04:00 - 04:59 | 05:00 - 05:59 |
| 01.01.2023                        | 66.6  | 66.4          | 66.4          | 66.3          | 66.3          | 65.3          | 65.0          | 63.8          | 63.9          | 64.2          | 62.7          | 61.5          | 59.8          | 58.5          | 58.6          | 59.0          | 56.6          | 55.0          | 54.2          | 54.0          | 53.2          | 52.6          | 52.2          |               |
| 02.01.2023                        | 52.1  | 55.5          | 58.8          | 57.0          | 54.5          | 57.2          | 56.9          | 56.6          | 56.7          | 55.6          | 56.3          | 58.2          | 59.9          | 63.6          | 63.2          | 60.8          | 60.4          | 61.4          | 60.5          | 61.0          | 61.6          | 57.3          | 57.6          | 57.2          |
| 03.01.2023                        | 57.0  | 58.8          | 57.7          | 57.9          | 57.9          | 56.9          | 56.8          | 54.2          | 54.5          | 55.6          | 53.3          | 54.2          | 54.2          | 54.4          | 56.3          | 55.8          | 58.3          | 57.7          | 60.8          | 61.1          | 63.0          | 63.1          | 64.1          | 66.2          |
| 04.01.2023                        | 66.2  | 65.1          | 65.7          | 64.1          | 62.4          | 61.9          | 63.1          | 63.9          | 62.9          | 65.1          | 64.6          | 66.1          | 67.0          | 69.2          | 70.0          | 71.7          | 73.7          | 73.1          | 75.8          | 75.2          | 74.2          | 74.6          | 75.4          | 79.7          |
| 05.01.2023                        | 81.2  | 64.5          | 62.8          | 59.6          | 58.6          | 58.1          | 57.4          | 56.0          | 55.2          | 57.4          | 51.1          | 50.6          | 51.2          | 49.1          | 49.1          | 48.7          | 50.0          | 51.4          | 52.9          | 54.0          | 54.5          | 57.1          | 60.9          | 62.6          |
| 06.01.2023                        | 64.7  | 64.0          | 64.3          | 63.4          | 60.1          | 61.1          | 59.0          | 61.0          | 62.0          | 61.3          | 62.0          | 60.1          | 58.8          | 58.0          | 57.7          | 58.3          | 59.9          | 58.8          | 57.8          | 57.3          | 54.6          | 54.9          | 54.5          | 54.5          |
| 07.01.2023                        | 57.2  | 58.6          | 58.6          | 62.4          | 62.1          | 63.3          | 62.5          | 60.4          | 58.1          | 58.2          | 58.3          | 57.0          | 58.7          | 61.6          | 61.8          | 61.5          | 60.5          | 60.9          | 60.0          | 60.4          | 60.9          | 65.5          | 61.3          | 59.9          |
| 08.01.2023                        | 58.3  | 56.7          | 56.2          | 58.4          | 58.9          | 58.6          | 57.2          | 58.1          | 58.1          | 56.6          | 55.6          | 54.4          | 54.4          | 53.0          | 52.8          | 53.6          | 53.7          | 54.5          | 53.3          | 53.5          | 54.7          | 55.8          | 55.1          | 54.6          |
| 09.01.2023                        | 54.1  | 54.8          | 58.9          | 55.7          | 56.1          | 56.7          | 56.4          | 56.3          | 56.5          | 55.6          | 54.0          | 53.3          | 54.0          | 53.9          | 53.1          | 53.9          | 54.3          | 54.1          | 53.8          | 57.0          | 54.7          | 54.3          | 54.9          | 55.3          |
| 10.01.2023                        | 55.2  | 55.4          | 54.5          | 54.8          | 55.7          | 55.9          | 56.0          | 56.4          | 57.2          | 59.1          | 58.6          | 59.8          | 58.2          | 62.2          | 64.1          | 66.5          | 68.4          | 69.1          | 68.3          | 69.1          | 69.4          | 71.1          | 70.6          | 65.2          |
| 11.01.2023                        | 61.3  | 60.9          | 58.4          | 59.0          | 56.1          | 56.9          | 57.5          | 59.7          | 60.7          | 60.5          | 61.5          | 59.8          | 60.6          | 62.3          | 62.9          | 62.7          | 65.9          | 63.3          | 63.4          | 66.3          | 63.8          | 61.8          | 60.4          | 58.3          |
| 12.01.2023                        | 56.9  | 56.9          | 58.1          | 56.5          | 64.8          | 62.1          | 57.3          | 58.2          | 59.5          | 57.8          | 59.0          | 56.4          | 55.1          | 57.3          | 60.8          | 63.3          | 63.5          | 65.8          | 63.8          | 61.4          | 62.2          | 64.1          | 68.1          | 64.9          |
| 13.01.2023                        | 66.9  | 72.2          | 69.4          | 69.6          | 70.3          | 69.3          | 72.7          | 72.1          | 70.5          | 69.0          | 70.8          | 73.9          | 76.5          | 76.4          | 77.1          | 74.7          | 73.0          | 71.2          | 66.8          | 66.9          | 64.7          | 62.0          | 63.3          | 59.5          |
| 14.01.2023                        | 59.7  | 62.1          | 59.3          | 56.7          | 58.5          | 59.6          | 60.0          | 62.4          | 64.4          | 66.3          | 66.7          | 66.3          | 66.6          | 61.5          | 59.0          | 71.4          | 63.9          | 66.1          | 70.5          | 69.0          | 69.0          | 71.1          | 72.9          | 74.3          |
| 15.01.2023                        | 74.8  | 75.9          | 77.1          | 78.2          | 79.1          | 80.6          | 82.0          | 81.5          | 78.3          | 80.5          | 81.3          | 80.5          | 79.4          | 77.2          | 73.3          | 70.9          | 68.9          | 70.6          | 65.2          | 61.3          | 62.8          | 59.4          | 59.2          | 57.7          |
| 16.01.2023                        | 56.5  | 55.3          | 54.4          | 53.2          | 53.8          | 54.8          | 55.0          | 53.7          | 51.4          | 49.7          | 52.8          | 52.6          | 54.2          | 56.6          | 54.8          | 53.1          | 50.7          | 50.1          | 52.3          | 49.5          | 50.2          | 48.7          | 49.9          | 73.0          |
| 17.01.2023                        | 81.4  | 80.2          | 74.6          | 74.3          | 70.6          | 71.3          | 72.5          | 69.4          | 73.2          | 71.2          | 70.6          | 68.1          | 66.1          | 63.2          | 62.7          | 64.2          | 58.8          | 63.0          | 67.0          | 68.5          | 63.2          | 61.3          | 62.9          | 59.2          |
| 18.01.2023                        | 58.7  | 59.8          | 63.0          | 59.5          | 59.9          | 61.8          | 60.8          | 57.3          | 56.1          | 55.3          | 55.7          | 56.8          | 58.8          | 63.3          | 64.7          | 63.3          | 64.9          | 67.9          | 62.8          | 55.7          | 54.8          | 55.7          | 72.6          | 77.2          |
| 19.01.2023                        | 75.1  | 72.1          | 66.8          | 64.1          | 61.3          | 59.8          | 58.3          | 58.4          | 61.1          | 59.9          | 63.3          | 63.5          | 60.2          | 56.1          | 56.4          | 62.5          | 60.5          | 65.4          | 55.6          | 55.0          | 53.0          | 56.7          | 55.6          | 60.7          |
| 20.01.2023                        | 53.6  | 54.4          | 54.9          | 52.3          | 53.7          | 49.1          | 49.9          | 51.0          | 51.3          | 50.9          | 53.6          | 52.1          | 51.6          | 52.1          | 52.3          | 52.3          | 51.0          | 51.3          | 51.0          | 50.5          | 56.6          | 50.5          | 50.1          | 49.0          |
| 21.01.2023                        | 49.9  | 48.5          | 48.6          | 48.9          | 48.6          | 48.7          | 48.9          | 48.0          | 50.7          | 49.0          | 49.5          | 50.9          | 48.5          | 48.0          | 47.6          | 48.1          | 47.6          | 45.8          | 45.3          | 44.4          | 54.9          | 45.6          | 46.6          | 45.6          |
| 22.01.2023                        | 45.8  | 44.4          | 45.5          | 45.7          | 46.7          | 47.1          | 46.1          | 45.4          | 44.6          | 46.3          | 46.0          | 48.0          | 44.3          | 44.6          | 44.5          | 43.9          | 44.1          | 40.6          | 41.4          | 39.8          | 58.0          | 42.7          | 44.5          | 45.2          |
| 23.01.2023                        | 45.3  | 46.4          | 49.4          | 50.5          | 48.8          | 47.4          | 46.1          | 46.3          | 44.8          | 45.7          | 51.2          | 45.3          | 45.5          | 46.7          | 48.0          | 48.3          | 47.6          | 47.6          | 46.6          | 46.3          | 62.3          | 48.8          | 49.5          | 50.4          |
| 24.01.2023                        | 50.2  | 54.0          | 55.7          | 51.4          | 52.0          | 51.2          | 51.7          | 52.1          | 51.8          | 56.2          | 51.5          | 51.9          | 51.6          | 51.0          | 51.1          | 51.5          | 51.7          | 51.9          | 53.9          | 54.6          | 57.9          | 53.8          | 55.1          | 55.7          |
| 25.01.2023                        | 56.1  | 56.2          | 55.9          | 57.3          | 60.3          | 58.9          | 59.6          | 58.7          | 59.3          | 60.5          | 58.5          | 56.9          | 55.4          | 55.9          | 56.5          | 57.6          | 56.0          | 54.6          | 54.8          | 55.1          | 54.6          | 54.2          | 54.5          | 54.5          |
| 26.01.2023                        | 54.5  | 55.6          | 56.0          | 53.7          | 54.7          | 53.2          | 53.0          | 54.5          | 56.6          | 55.5          | 56.1          | 55.4          | 53.7          | 51.5          | 51.9          | 50.8          | 51.3          | 52.5          | 52.3          | 53.0          | 54.4          | 52.7          | 52.3          | 52.2          |
| 27.01.2023                        | 52.0  | 51.8          | 51.8          | 52.0          | 50.8          | 51.6          | 50.1          | 50.0          | 53.5          | 53.6          | 52.8          | 53.2          | 51.5          | 49.8          | 48.6          | 49.2          | 49.6          | 50.9          | 51.3          | 52.0          | 59.3          | 51.0          | 48.8          | 48.7          |
| 28.01.2023                        | 49.7  | 50.5          | 51.8          | 52.5          | 51.4          | 52.0          | 55.2          | 56.1          | 56.4          | 57.2          | 56.4          | 57.3          | 56.7          | 55.6          | 55.6          | 54.7          | 53.7          | 53.4          | 53.7          | 54.3          | 56.0          | 55.9          | 56.7          | 56.9          |
| 29.01.2023                        | 58.7  | 57.0          | 60.2          | 59.5          | 59.2          | 57.8          | 59.0          | 59.6          | 62.5          | 62.7          | 65.6          | 64.1          | 66.1          | 68.3          | 69.3          | 69.3          | 70.7          | 70.2          | 71.1          | 72.3          | 70.6          | 67.4          | 67.9          | 73.3          |
| 30.01.2023                        | 74.7  | 79.4          | 78.7          | 79.4          | 78.8          | 79.7          | 78.4          | 79.3          | 79.5          | 80.4          | 79.2          | 77.1          | 78.8          | 77.3          | 78.1          | 78.5          | 76.0          | 71.7          | 71.8          | 67.5          | 66.8          | 65.0          | 61.7          | 60.3          |
| 31.01.2023                        | 59.9  | 63.9          | 64.9          | 67.6          | 69.4          | 70.2          | 70.3          | 73.9          | 77.0          | 78.0          | 76.7          | 80.4          | 80.0          | 79.9          | 77.8          | 76.9          | 80.4          | 76.2          | 78.3          | 77.0          | 73.8          | 73.4          | 76.4          | 74.5          |
| Stundenbezogener Monatsmittelwert | 71.0  | 69.7          | 68.0          | 68.4          | 68.3          | 69.2          | 69.7          | 69.8          | 69.2          | 70.2          | 70.1          | 70.2          | 70.3          | 69.6          | 68.8          | 68.5          | 68.9          | 66.8          | 67.6          | 66.8          | 65.4          | 65.2          | 67.0          | 69.3          |

## 6.2 L<sub>p,A,eq,1h</sub> Standort 2 - Keitum/Sylt-Ost, Park & Ride Parkplatz

|                                   | Äquivalenter Dauerschalldruckpegel L <sub>p,A,eq,1h</sub> [dB] |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|-----------------------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                                   | 06:00 - 06:59  | 07:00 - 07:59 | 08:00 - 08:59 | 09:00 - 09:59 | 10:00 - 10:59 | 11:00 - 11:59 | 12:00 - 12:59 | 13:00 - 13:59 | 14:00 - 14:59 | 15:00 - 15:59 | 16:00 - 16:59 | 17:00 - 17:59 | 18:00 - 18:59 | 19:00 - 19:59 | 20:00 - 20:59 | 21:00 - 21:59 | 22:00 - 22:59 | 23:00 - 23:59 | 00:00 - 00:59 | 01:00 - 01:59 | 02:00 - 02:59 | 03:00 - 03:59 | 04:00 - 04:59 | 05:00 - 05:59 |
| 01.01.2023                        | 68.6   | 67.7          | 68.2          | 68.7          | 67.4          | 68.0          | 66.3          | 65.8          | 65.6          | 65.6          | 64.2          | 61.3          | 59.3          | 58.4          | 58.2          | 59.1          | 55.3          | 51.9          | 53.0          | 49.7          | 48.3          | 45.2          | 47.0          | 51.4          |
| 02.01.2023                        | 51.8   | 58.1          | 57.8          | 59.8          | 59.6          | 61.1          | 61.8          | 62.8          | 60.8          | 61.9          | 63.2          | 59.3          | 57.4          | 57.3          | 56.0          | 55.9          | 53.9          | 52.1          | 50.6          | 51.2          | 51.4          | 46.7          | 47.7          | 49.7          |
| 03.01.2023                        | 60.5   | 55.0          | 56.9          | 57.7          | 59.9          | 59.8          | 60.5          | 58.4          | 59.8          | 59.4          | 60.6          | 59.6          | 59.1          | 58.4          | 58.7          | 60.1          | 61.1          | 62.4          | 63.3          | 65.4          | 67.3          | 68.3          | 72.0          | 74.0          |
| 04.01.2023                        | 73.0   | 72.5          | 70.9          | 67.5          | 66.4          | 67.1          | 65.2          | 66.9          | 65.6          | 66.7          | 65.3          | 66.2          | 66.4          | 65.7          | 65.6          | 66.1          | 66.5          | 64.3          | 67.2          | 64.6          | 64.8          | 64.3          | 64.1          | 69.0          |
| 05.01.2023                        | 71.1   | 59.6          | 58.1          | 57.5          | 59.4          | 59.4          | 60.1          | 59.6          | 58.4          | 61.3          | 59.8          | 56.3          | 56.4          | 53.2          | 51.2          | 50.5          | 50.6          | 49.8          | 50.7          | 50.7          | 55.5          | 58.0          | 61.3          | 62.9          |
| 06.01.2023                        | 66.7   | 68.2          | 69.2          | 65.1          | 61.4          | 60.0          | 60.9          | 63.6          | 61.6          | 60.5          | 59.8          | 58.5          | 56.6          | 54.8          | 53.1          | 54.3          | 57.4          | 55.4          | 52.4          | 49.4          | 49.2          | 50.7          | 51.1          | 52.4          |
| 07.01.2023                        | 54.9   | 59.5          | 60.2          | 59.6          | 62.9          | 63.2          | 64.5          | 60.8          | 59.5          | 59.2          | 60.7          | 59.5          | 61.7          | 62.7          | 63.1          | 63.9          | 63.9          | 66.2          | 62.9          | 63.0          | 62.2          | 68.2          | 64.2          | 61.5          |
| 08.01.2023                        | 60.3   | 54.9          | 55.4          | 59.0          | 60.3          | 59.9          | 58.7          | 58.4          | 59.2          | 59.3          | 61.4          | 58.4          | 54.9          | 52.4          | 54.0          | 54.8          | 51.9          | 52.1          | 52.3          | 53.2          | 54.8          | 54.5          | 56.5          | 56.6          |
| 09.01.2023                        | 56.7   | 59.4          | 61.3          | 59.3          | 60.7          | 60.3          | 60.8          | 59.5          | 58.4          | 58.2          | 57.8          | 55.9          | 54.2          | 52.6          | 49.9          | 49.4          | 46.4          | 44.2          | 43.0          | 46.0          | 44.2          | 42.4          | 39.5          | 48.6          |
| 10.01.2023                        | 55.8   | 58.3          | 59.2          | 59.4          | 60.8          | 60.3          | 59.1          | 61.2          | 59.9          | 62.3          | 63.8          | 63.3          | 63.6          | 68.6          | 69.5          | 72.1          | 75.0          | 75.8          | 76.5          | 76.2          | 76.7          | 77.7          | 74.1          | 64.9          |
| 11.01.2023                        | 59.0   | 61.5          | 61.2          | 60.5          | 62.1          | 60.1          | 60.5          | 60.7          | 60.2          | 60.3          | 58.9          | 57.8          | 62.9          | 63.4          | 64.3          | 66.7          | 69.0          | 65.8          | 62.3          | 65.8          | 59.2          | 55.7          | 50.5          | 55.2          |
| 12.01.2023                        | 55.8   | 61.4          | 61.7          | 62.9          | 68.1          | 63.5          | 61.1          | 58.8          | 58.8          | 57.5          | 57.4          | 56.7          | 55.5          | 56.9          | 61.6          | 63.9          | 64.6          | 64.9          | 62.5          | 57.8          | 58.6          | 58.1          | 63.6          | 63.0          |
| 13.01.2023                        | 69.8   | 72.3          | 72.9          | 73.5          | 73.7          | 72.6          | 72.3          | 71.5          | 69.2          | 65.0          | 66.9          | 67.6          | 67.1          | 65.4          | 64.5          | 61.7          | 60.8          | 58.8          | 56.5          | 55.8          | 54.8          | 51.7          | 54.7          | 53.1          |
| 14.01.2023                        | 53.4   | 58.0          | 57.7          | 61.2          | 63.4          | 64.6          | 67.1          | 66.8          | 66.3          | 67.5          | 71.1          | 74.9          | 71.5          | 62.3          | 58.2          | 62.1          | 60.9          | 62.5          | 63.9          | 65.9          | 67.6          | 69.5          | 72.8          | 74.2          |
| 15.01.2023                        | 74.2   | 76.7          | 78.2          | 78.9          | 78.1          | 81.1          | 83.2          | 82.3          | 79.0          | 74.8          | 72.4          | 72.0          | 70.3          | 65.7          | 63.5          | 60.6          | 60.8          | 59.4          | 54.2          | 55.8          | 53.3          | 55.2          | 45.9          | 56.6          |
| 16.01.2023                        | 58.8   | 59.5          | 59.2          | 58.8          | 59.9          | 59.8          | 60.4          | 59.4          | 58.5          | 57.9          | 59.4          | 57.2          | 56.0          | 56.6          | 54.6          | 52.2          | 51.0          | 51.9          | 53.6          | 48.9          | 47.9          | 45.5          | 45.7          | 63.3          |
| 17.01.2023                        | 69.4   | 68.2          | 61.5          | 63.3          | 63.6          | 62.5          | 61.3          | 61.6          | 65.2          | 62.8          | 62.8          | 64.1          | 64.9          | 59.3          | 60.0          | 59.0          | 51.5          | 52.4          | 54.1          | 60.9          | 51.4          | 52.6          | 55.6          | 58.2          |
| 18.01.2023                        | 57.6   | 59.4          | 62.3          | 59.0          | 61.0          | 62.4          | 60.5          | 64.8          | 61.7          | 62.1          | 60.3          | 58.8          | 61.1          | 65.6          | 66.4          | 64.6          | 67.9          | 70.4          | 66.4          | 58.9          | 51.2          | 44.2          | 58.9          | 64.9          |
| 19.01.2023                        | 62.8   | 61.0          | 58.9          | 58.0          | 59.4          | 60.1          | 59.6          | 59.9          | 59.9          | 58.9          | 60.4          | 57.9          | 57.0          | 54.9          | 52.4          | 56.1          | 51.1          | 49.6          | 44.2          | 42.1          | 37.5          | 45.6          | 40.3          | 53.0          |
| 20.01.2023                        | 55.2   | 58.3          | 58.2          | 58.5          | 59.4          | 58.9          | 59.8          | 60.0          | 58.3          | 58.0          | 56.7          | 55.4          | 53.4          | 52.2          | 51.5          | 49.1          | 48.5          | 47.0          | 42.6          | 44.2          | 46.0          | 45.8          | 46.4          | 45.6          |
| 21.01.2023                        | 54.7   | 51.1          | 53.4          | 55.5          | 56.2          | 57.5          | 62.7          | 56.6          | 57.5          | 56.4          | 56.0          | 55.4          | 54.3          | 53.6          | 50.1          | 51.0          | 51.2          | 48.9          | 48.5          | 49.7          | 49.4          | 49.0          | 48.1          | 46.4          |
| 22.01.2023                        | 47.2   | 48.1          | 51.6          | 53.5          | 55.0          | 54.2          | 54.4          | 55.0          | 55.4          | 55.7          | 59.0          | 52.6          | 52.0          | 49.4          | 47.9          | 47.5          | 46.8          | 43.6          | 43.3          | 39.9          | 39.1          | 41.1          | 44.9          | 47.7          |
| 23.01.2023                        | 52.1   | 57.5          | 59.4          | 58.3          | 59.1          | 59.1          | 59.3          | 58.6          | 58.1          | 58.7          | 57.3          | 55.2          | 52.9          | 51.3          | 49.9          | 47.2          | 44.3          | 42.0          | 40.5          | 39.8          | 39.5          | 37.6          | 39.0          | 46.2          |
| 24.01.2023                        | 58.9   | 57.4          | 57.7          | 58.1          | 58.7          | 59.5          | 58.0          | 58.1          | 58.1          | 58.0          | 57.9          | 55.8          | 53.9          | 51.6          | 49.6          | 49.7          | 46.7          | 43.5          | 44.6          | 46.2          | 44.5          | 44.9          | 45.2          | 48.5          |
| 25.01.2023                        | 53.8   | 57.3          | 58.1          | 58.3          | 60.4          | 59.5          | 60.6          | 61.2          | 60.2          | 60.5          | 58.8          | 57.5          | 56.9          | 55.9          | 55.5          | 55.9          | 53.3          | 49.6          | 47.3          | 43.9          | 41.2          | 42.8          | 44.0          | 50.1          |
| 26.01.2023                        | 53.7   | 58.4          | 58.9          | 59.1          | 59.5          | 59.1          | 59.8          | 61.2          | 58.0          | 58.6          | 58.2          | 56.5          | 54.7          | 54.2          | 53.1          | 50.3          | 49.3          | 48.9          | 46.1          | 47.6          | 50.2          | 49.6          | 50.4          | 50.8          |
| 27.01.2023                        | 54.0   | 56.9          | 57.6          | 57.7          | 60.3          | 60.4          | 59.5          | 57.7          | 58.8          | 58.6          | 57.1          | 58.2          | 54.9          | 52.2          | 51.3          | 49.5          | 49.6          | 47.2          | 45.2          | 43.9          | 42.5          | 39.1          | 42.9          | 45.1          |
| 28.01.2023                        | 47.5   | 50.4          | 52.8          | 54.5          | 56.5          | 57.9          | 58.4          | 57.8          | 57.0          | 56.6          | 56.6          | 56.6          | 55.5          | 54.8          | 52.1          | 50.7          | 48.9          | 47.9          | 46.1          | 44.4          | 44.8          | 45.2          | 44.8          | 48.5          |
| 29.01.2023                        | 50.4   | 48.9          | 54.7          | 56.5          | 56.3          | 58.1          | 58.2          | 58.7          | 59.1          | 60.1          | 61.5          | 62.2          | 63.3          | 67.8          | 68.3          | 67.9          | 68.9          | 69.2          | 67.9          | 65.8          | 59.9          | 55.5          | 56.8          | 61.4          |
| 30.01.2023                        | 62.7   | 69.5          | 69.3          | 66.8          | 68.8          | 68.7          | 69.8          | 68.6          | 67.9          | 69.8          | 67.6          | 65.1          | 66.4          | 66.0          | 65.6          | 64.5          | 61.3          | 58.7          | 55.5          | 51.4          | 55.6          | 57.4          | 52.1          | 50.5          |
| 31.01.2023                        | 57.2   | 62.2          | 63.6          | 65.4          | 65.2          | 65.7          | 63.7          | 66.0          | 68.4          | 67.0          | 65.1          | 70.1          | 69.0          | 71.7          | 66.9          | 65.5          | 69.1          | 64.5          | 67.1          | 63.8          | 62.3          | 61.2          | 62.7          | 61.9          |
| Stundenbezogener Monatsmittelwert | 65.2   | 66.1          | 66.6          | 66.7          | 66.6          | 68.0          | 69.5          | 68.8          | 66.4          | 64.3          | 63.8          | 64.6          | 63.3          | 62.8          | 62.0          | 62.5          | 64.1          | 64.2          | 64.0          | 63.4          | 63.5          | 64.6          | 63.8          | 64.1          |

Hauptsächlich von Fluggeräusch verursacht



## 7 Stundenbezogene äquivalente Dauerschallpegel $L_{p,A,eq,Fl,1h}$ (Fluggeräusch)

### 7.1 $L_{p,A,eq,Fl,1h}$ Standort 1 - Wenningstedt, Dünenstraße 17

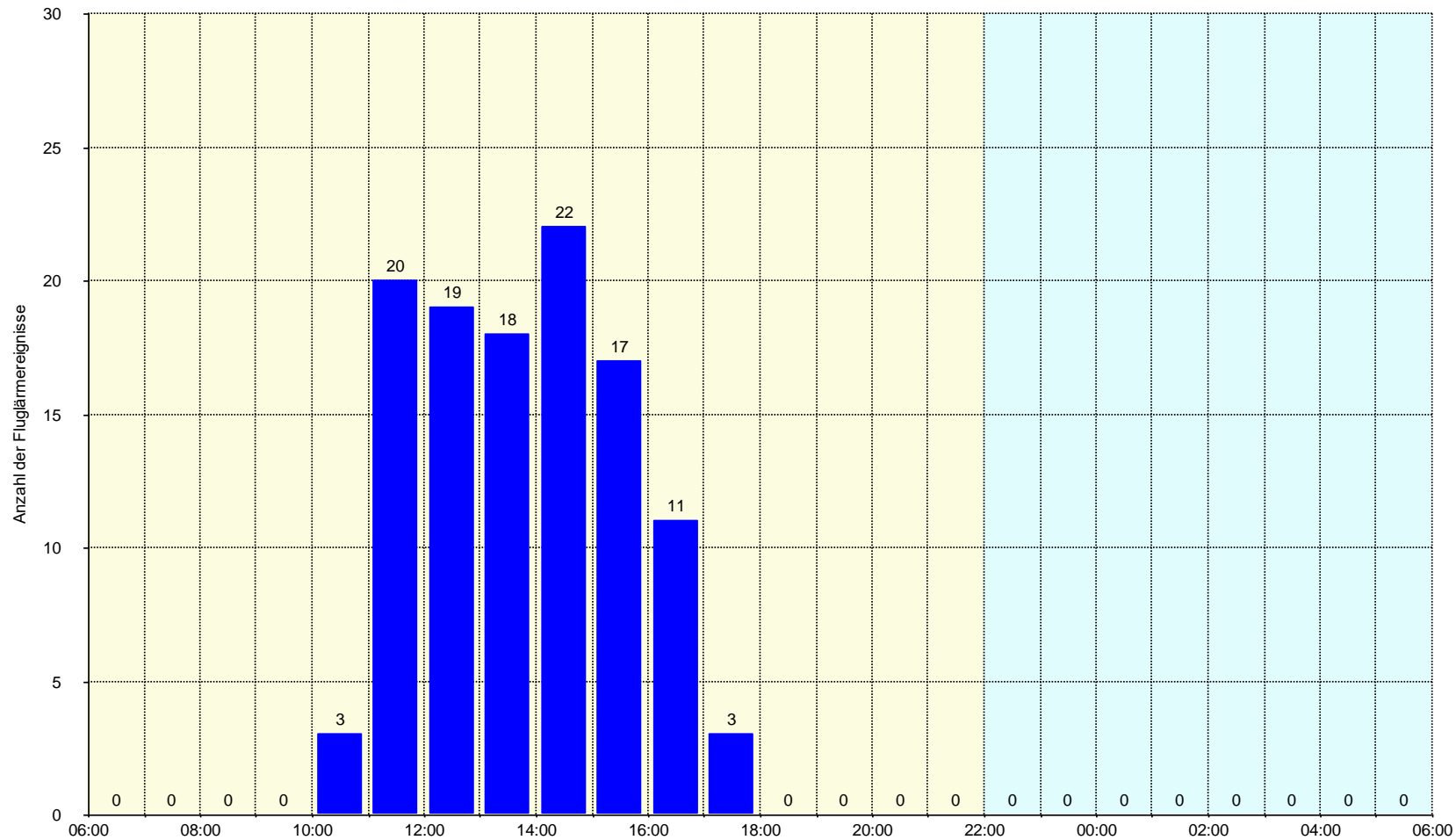
|                                   | Äquivalenter Dauerschalldruckpegel $L_{p,A,eq,Fl,1h}$ [dB] |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
|-----------------------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
|                                   | 06:00 - 06:59  | 07:00 - 07:59 | 08:00 - 08:59 | 09:00 - 09:59 | 10:00 - 10:59 | 11:00 - 11:59 | 12:00 - 12:59 | 13:00 - 13:59 | 14:00 - 14:59 | 15:00 - 15:59 | 16:00 - 16:59 | 17:00 - 17:59 | 18:00 - 18:59 | 19:00 - 19:59 | 20:00 - 20:59 | 21:00 - 21:59 | 22:00 - 22:59 | 23:00 - 23:59 | 00:00 - 00:59 | 01:00 - 01:59 | 02:00 - 02:59 | 03:00 - 03:59 | 04:00 - 04:59 | 05:00 - 05:59 |  |
| 01.01.2023                        |  |               |               |               |               |               |               |               |               |               | 53.9          | 53.1          |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 02.01.2023                        |  |               |               |               |               | 52.6          |               |               | 51.9          | 49.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 03.01.2023                        |  |               |               |               |               | 45.6          | 47.2          |               | 40.0          | 50.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 04.01.2023                        |  |               |               |               |               | 49.5          | 53.7          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 05.01.2023                        |  |               |               |               |               | 43.6          | 47.8          | 49.2          | 47.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 06.01.2023                        |  |               |               |               |               |               |               | 48.6          |               |               | 53.6          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 07.01.2023                        |  |               |               |               | 47.4          | 55.4          | 44.7          | 48.9          | 47.6          | 51.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 08.01.2023                        |  |               |               |               |               | 45.0          | 45.1          | 50.3          | 52.5          | 50.8          | 48.9          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 09.01.2023                        |  |               |               |               |               | 46.6          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 10.01.2023                        |  |               |               |               |               |               |               |               | 46.8          | 41.1          | 47.2          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 11.01.2023                        |  |               |               |               |               |               | 47.8          |               | 52.3          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 12.01.2023                        |  |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 13.01.2023                        |  |               |               |               |               |               | 57.4          |               | 52.9          | 53.0          | 55.9          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 14.01.2023                        |  |               |               |               |               | 49.3          |               | 44.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 15.01.2023                        |  |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 16.01.2023                        |  |               |               |               | 45.8          |               | 41.1          |               |               |               | 40.3          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 17.01.2023                        |  |               |               |               |               | 54.0          |               |               |               | 51.0          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 18.01.2023                        |  |               |               |               |               |               |               |               |               |               | 47.7          | 48.5          |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 19.01.2023                        |  |               |               |               | 45.8          | 53.0          | 51.5          | 49.0          | 48.4          | 49.8          | 49.7          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 20.01.2023                        |  |               |               |               | 40.4          |               |               |               |               |               | 48.6          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 21.01.2023                        |  |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 22.01.2023                        |  |               |               |               |               |               | 28.3          | 32.3          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 23.01.2023                        |  |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 24.01.2023                        |  |               |               |               |               |               |               | 38.5          | 38.4          | 50.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 25.01.2023                        |  |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 26.01.2023                        |  |               |               |               |               |               |               | 48.3          | 51.7          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 27.01.2023                        |  |               |               |               |               |               |               |               | 49.1          | 49.2          | 33.8          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 28.01.2023                        |  |               |               |               |               |               | 52.1          |               |               | 50.0          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 29.01.2023                        |  |               |               |               |               |               | 48.8          | 46.7          |               | 49.8          |               | 50.8          |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 30.01.2023                        |  |               |               |               |               |               | 62.2          | 59.3          | 58.2          | 62.8          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| 31.01.2023                        |  |               |               |               |               | 51.0          |               | 56.2          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |
| Stundenbezogener Monatsmittelwert |  |               |               |               | 36.6          | 46.6          | 50.0          | 47.7          | 47.7          | 50.2          | 46.0          | 41.0          |               |               |               |               |               |               |               |               |               |               |               |               |  |

## 7.2 L<sub>p,A,eq,FI,1h</sub> Standort 2 - Keitum/Sylt-Ost, Park & Ride Parkplatz

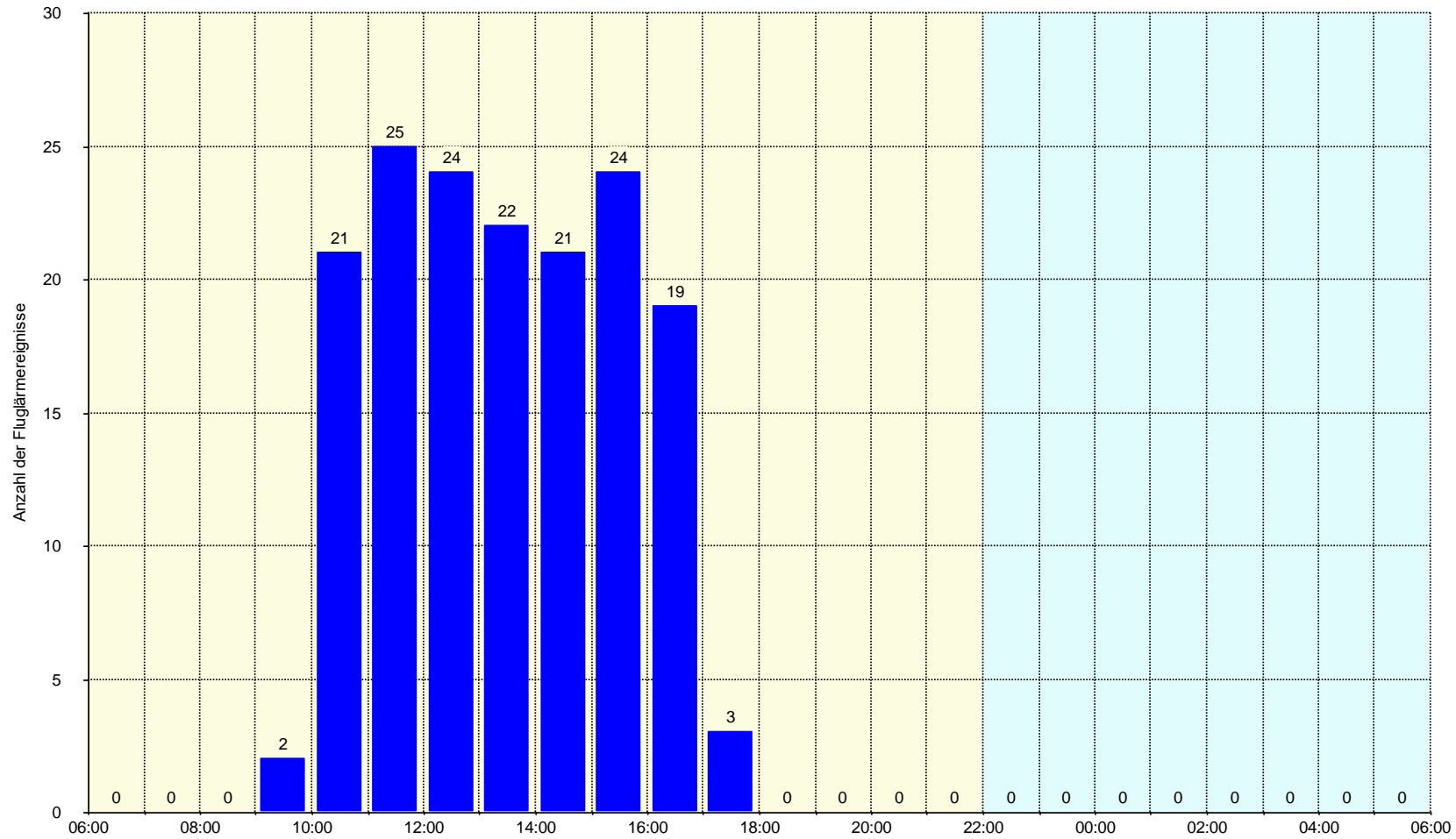
|                                   | Äquivalenter Dauerschalldruckpegel L <sub>p,A,eq,FI,1h</sub> [dB] |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
|-----------------------------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|
|                                   | 06:00 - 06:59   | 07:00 - 07:59 | 08:00 - 08:59 | 09:00 - 09:59 | 10:00 - 10:59 | 11:00 - 11:59 | 12:00 - 12:59 | 13:00 - 13:59 | 14:00 - 14:59 | 15:00 - 15:59 | 16:00 - 16:59 | 17:00 - 17:59 | 18:00 - 18:59 | 19:00 - 19:59 | 20:00 - 20:59 | 21:00 - 21:59 | 22:00 - 22:59 | 23:00 - 23:59 | 00:00 - 00:59 | 01:00 - 01:59 | 02:00 - 02:59 | 03:00 - 03:59 | 04:00 - 04:59 | 05:00 - 05:59 |  |  |
| 01.01.2023                        |   |               |               |               |               |               |               |               | 52.6          | 54.2          | 55.0          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 02.01.2023                        |   |               |               | 51.6          |               | 53.5          | 54.8          | 58.5          | 53.1          | 57.2          | 58.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 03.01.2023                        |   |               |               |               | 54.6          | 52.5          | 55.3          |               | 47.2          |               | 55.4          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 04.01.2023                        |   |               |               |               |               | 50.5          |               | 52.2          | 55.7          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 05.01.2023                        |   |               |               |               | 52.5          | 51.8          | 49.6          | 53.2          |               | 58.6          | 55.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 06.01.2023                        |   |               |               |               | 50.2          |               |               |               |               | 54.5          | 51.8          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 07.01.2023                        |   |               |               |               |               | 51.5          | 55.9          |               | 47.8          |               | 56.1          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 08.01.2023                        |   |               |               |               | 54.8          | 50.6          | 44.4          |               | 51.5          | 51.3          | 59.3          | 55.6          |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 09.01.2023                        |   |               |               |               | 52.6          | 52.9          | 54.3          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 10.01.2023                        |   |               |               |               |               | 48.5          |               |               | 46.1          | 50.2          | 52.2          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 11.01.2023                        |   |               |               |               | 59.0          | 52.3          | 53.9          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 12.01.2023                        |   |               |               |               | 52.3          |               | 56.4          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 13.01.2023                        |   |               |               |               | 58.5          |               |               | 56.8          | 54.5          |               | 52.6          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 14.01.2023                        |   |               |               |               | 40.9          |               |               |               |               |               | 50.0          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 15.01.2023                        |   |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 16.01.2023                        |   |               |               |               | 51.2          | 48.4          | 50.8          | 49.8          | 48.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 17.01.2023                        |   |               |               |               | 55.5          |               |               |               | 54.2          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 18.01.2023                        |   |               |               |               |               |               |               | 47.2          |               | 49.3          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 19.01.2023                        |   |               |               |               | 51.8          | 50.9          | 52.9          | 45.0          | 46.9          | 42.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 20.01.2023                        |   |               |               |               |               | 51.3          | 54.2          | 52.7          | 44.6          | 50.4          | 45.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 21.01.2023                        |   |               |               |               |               | 46.3          | 60.9          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 22.01.2023                        |   |               |               |               | 49.4          |               | 36.2          | 37.8          |               |               | 57.4          |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 23.01.2023                        |   |               |               |               |               |               | 51.6          | 49.1          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 24.01.2023                        |   |               |               |               |               | 50.2          |               | 35.7          | 46.9          | 43.6          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 25.01.2023                        |   |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 26.01.2023                        |   |               |               |               |               | 38.9          |               | 57.1          | 40.7          | 50.9          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 27.01.2023                        |   |               |               |               |               | 52.6          | 50.5          |               | 52.9          | 52.8          | 41.2          | 53.3          |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 28.01.2023                        |   |               |               |               |               | 51.5          | 51.7          | 51.2          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 29.01.2023                        |   |               |               |               |               | 50.0          |               | 49.6          | 48.1          | 51.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 30.01.2023                        |   |               |               |               | 43.4          | 50.6          | 47.2          |               | 55.5          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| 31.01.2023                        |   |               |               |               | 50.5          | 51.4          | 51.9          |               |               |               |               | 53.0          |               |               |               |               |               |               |               |               |               |               |               |               |  |  |
| Stundenbezogener Monatsmittelwert |   |               |               | 36.7          | 50.7          | 49.1          | 51.6          | 49.5          | 48.9          | 49.4          | 51.3          | 44.0          |               |               |               |               |               |               |               |               |               |               |               |               |  |  |

## 8 Anzahl der Fluggeräuscheignisse im Monat Januar pro Tagesstunde

### 8.1 Anzahl der Fluggeräuscheignisse Standort 1 - Wenningstedt, Dünenstraße 17



## 8.2 Anzahl der Fluggeräuschereignisse Standort 2 - Keitum/Sylt-Ost, Park & Ride Parkplatz



## 9 Meteorologische Angaben am Standort 1 – Wenningstedt, Dünenstraße 17

| Datum      | Windgeschwindigkeit [ms <sup>-1</sup> ] |      |        | Windrichtung<br>mittel [°] | Lufttemperatur<br>mittel [°C] | Luftfeuchtigkeit<br>mittel [%] | Luftdruck<br>mittel [hPa] | Regen<br>[Ja/Nein] |
|------------|---|------|--------|----------------------------|-------------------------------|--------------------------------|---------------------------|--------------------|
|            | min.                                    | max. | mittel |                            |                               |                                |                           |                    |
| 01.01.2023 | 0.9                                     | 16.0 | 7.2    | 176                        | 8.1                           | 99                             | 1009.0                    | Ja                 |
| 02.01.2023 |   |      |        |                            |                               |                                |                           |                    |
| 03.01.2023 | 0.7                                     | 18.0 | 5.7    | 171                        | 5.9                           | 95                             | 1020.0                    | Ja                 |
| 04.01.2023 | 1.5                                     | 25.0 | 10.0   | 233                        | 8.1                           | 97                             | 1003.0                    | Ja                 |
| 05.01.2023 |   |      |        |                            |                               |                                |                           |                    |
| 06.01.2023 | 0.8                                     | 17.0 | 6.0    | 194                        | 7.2                           | 99                             | 1011.0                    | Ja                 |
| 07.01.2023 | 0.8                                     | 17.0 | 7.1    | 145                        | 8.4                           | 98                             | 1005.0                    | Ja                 |
| 08.01.2023 | 0.9                                     | 13.0 | 5.6    | 145                        | 6.9                           | 98                             | 996.3                     | Ja                 |
| 09.01.2023 | 0.9                                     | 11.0 | 4.7    | 193                        | 6.2                           | 99                             | 999.3                     | Ja                 |
| 10.01.2023 | 1.1                                     | 19.0 | 7.1    | 165                        | 6.5                           | 99                             | 1007.0                    | Ja                 |
| 11.01.2023 | 0.9                                     | 15.0 | 6.7    | 196                        | 7.0                           | 98                             | 1002.0                    | Ja                 |
| 12.01.2023 | 0.8                                     | 18.0 | 6.7    | 192                        | 7.3                           | 98                             | 995.6                     | Ja                 |
| 13.01.2023 | 1.6                                     | 19.0 | 10.0   | 233                        | 7.2                           | 96                             | 998.0                     | Ja                 |
| 14.01.2023 | 1.4                                     | 20.0 | 8.2    | 187                        | 6.6                           | 95                             | 993.9                     | Ja                 |
| 15.01.2023 | 0.8                                     | 27.0 | 12.0   | 226                        | 6.4                           | 87                             | 988.3                     | Ja                 |
| 16.01.2023 | 0.1                                     | 19.0 | 4.9    | 129                        | 3.7                           | 98                             | 981.4                     | Ja                 |
| 17.01.2023 | 0.4                                     | 23.0 | 9.5    | 245                        | 3.6                           | 90                             | 982.0                     | Ja                 |
| 18.01.2023 | 1.1                                     | 18.0 | 7.0    | 170                        | 3.5                           | 93                             | 990.1                     | Ja                 |
| 19.01.2023 | 0.4                                     | 17.0 | 7.0    | 270                        | 3.4                           | 94                             | 1001.0                    | Ja                 |
| 20.01.2023 |   |      |        |                            |                               |                                |                           |                    |
| 21.01.2023 | 0.1                                     | 8.2  | 1.7    | 58                         | 0.6                           | 96                             | 1035.0                    | Ja                 |
| 22.01.2023 | 0.1                                     | 8.1  | 1.7    | 65                         | 0.1                           | 93                             | 1037.0                    | Ja                 |
| 23.01.2023 |   |      |        |                            |                               |                                |                           |                    |
| 24.01.2023 | 0.3                                     | 9.1  | 3.7    | 197                        | 2.7                           | 90                             | 1039.0                    | Ja                 |
| 25.01.2023 | 0.3                                     | 11.0 | 5.1    | 206                        | 4.0                           | 98                             | 1026.0                    | Ja                 |
| 26.01.2023 | 0.2                                     | 8.6  | 2.9    | 155                        | 3.9                           | 97                             | 1026.0                    | Ja                 |
| 27.01.2023 |   |      |        |                            |                               |                                |                           |                    |
| 28.01.2023 | 0.5                                     | 9.6  | 5.0    | 246                        | 4.9                           | 98                             | 1026.0                    | Ja                 |
| 29.01.2023 | 1.3                                     | 18.0 | 8.5    | 240                        | 5.9                           | 96                             | 1012.0                    | Ja                 |
| 30.01.2023 | 2.6                                     | 24.0 | 12.0   | 296                        | 5.5                           | 89                             | 1009.0                    | Ja                 |
| 31.01.2023 | 1.6                                     | 24.0 | 12.0   | 263                        | 6.0                           | 92                             | 1008.0                    | Ja                 |

## 10 Äquivalente Dauerschallpegel im Vergleich zu Vormonaten

### 10.1 $L_{p,A,eq,T}$ und $L_{p,A,eq,FI,T}$ im Monatsvergleich Standort 1 - Wenningstedt, Dünenstraße 17

|                | Monatsmittelwerte Dauerschallpegel<br>Gesamtgeräusch |   |   | Monatsmittelwerte Dauerschallpegel<br>Fluggeräusch |  |  |
|----------------|--|---|---|--|--|--|
|                | $L_{p,A,eq,(24h)}$<br>06:00-05:59<br>[dB]            | $L_{p,A,eq,Tag}$<br>06:00-21:59<br>[dB] | $L_{p,A,eq,Nacht}$<br>22:00-05:59<br>[dB] | $L_{p,A,eq,FI,(24h)}$<br>06:00-05:59<br>[dB]       | $L_{p,A,eq,FI,Tag}$<br>06:00-21:59<br>[dB] | $L_{p,A,eq,FI,Nacht}$<br>22:00-05:59<br>[dB] |
| Januar 2023    | 68.9   | 69.5                                    | 67.3                                      | 42.5   | 44.2                                       |  |
| Februar 2023   |  |   |   |  |  |  |
| März 2023      |  |   |   |  |  |  |
| April 2023     |  |   |   |  |  |  |
| Mai 2023       |  |   |   |  |  |  |
| Juni 2023      |  |   |   |  |  |  |
| Juli 2023      |  |   |   |  |  |  |
| August 2023    |  |   |   |  |  |  |
| September 2023 |  |   |   |  |  |  |
| Oktober 2023   |  |   |   |  |  |  |
| November 2023  |  |   |   |  |  |  |
| Dezember 2023  |  |   |   |  |  |  |

## 10.2 $L_{p,A,eq,T}$ und $L_{p,A,eq,Fl,T}$ im Monatsvergleich Standort 2 - Keitum/Sylt-Ost, Park & Ride Parkplatz

|                | Monatsmittelwerte Dauerschallpegel<br>Gesamtgeräusch |   |   | Monatsmittelwerte Dauerschallpegel<br>Fluggeräusch |  |  |
|----------------|--|---|---|--|--|--|
|                | $L_{p,A,eq,(24h)}$<br>06:00-05:59<br>[dB]            | $L_{p,A,eq,Tag}$<br>06:00-21:59<br>[dB] | $L_{p,A,eq,Nacht}$<br>22:00-05:59<br>[dB] | $L_{p,A,eq,Fl,(24h)}$<br>06:00-05:59<br>[dB]       | $L_{p,A,eq,Fl,Tag}$<br>06:00-21:59<br>[dB] | $L_{p,A,eq,Fl,Nacht}$<br>22:00-05:59<br>[dB] |
| Januar 2023    | 65.4   | 66.0                                    | 64.0                                      | 45.0   | 46.8                                       |  |
| Februar 2023   |  |   |   |  |  |  |
| März 2023      |  |   |   |  |  |  |
| April 2023     |  |   |   |  |  |  |
| Mai 2023       |  |   |   |  |  |  |
| Juni 2023      |  |   |   |  |  |  |
| Juli 2023      |  |   |   |  |  |  |
| August 2023    |  |   |   |  |  |  |
| September 2023 |  |   |   |  |  |  |
| Oktober 2023   |  |   |   |  |  |  |
| November 2023  |  |   |   |  |  |  |
| Dezember 2023  |  |   |   |  |  |  |