

Appendix A

Noise Receiver Locations

Buildings	Type	Point X (MGA56)	Point Y (MGA56)
Balaclava A	surrounding residence	362484	6706451
Elm Vale	surrounding residence	370996	6705255
Eungai	surrounding residence	368903	6703304
Girrahween	surrounding residence	366978	6710689
Glengarry	surrounding residence	369447	6707518
Glengyle	windfarmer residence	364384	6705252
Highfields	surrounding residence	368204	6703334
Hillside	vacant windfarmer residence	367316	6704226
Ilparran A	surrounding residence	365191	6702621
Ilparran B	vacant surrounding residence	364665	6703476
Kalanga A	surrounding residence	363584	6704532
Kalanga B	surrounding residence	363211	6704876
Kalanga C	vacant surrounding residence	363435	6704417
Klossie	surrounding residence	368815	6700766
Lombardy	surrounding residence	369589	6704005
Matheson Church	community facility/lookout	362050	6709530
Mayvona	vacant surrounding residence	368693	6704706
Minamurra A	surrounding residence	363787	6703120
Minamurra B	surrounding residence	363900	6703434
Minamurra C	vacant surrounding residence	363576	6703070
Moonarie	surrounding residence	370958	6704744
Nullagai	surrounding residence	369447	6702207
Oakes	surrounding residence	365090	6700966
Rivoli	surrounding residence	363609	6711568
Rose Hill A	windfarmer residence	367786	6709527
Rose Hill B	windfarmer residence	367642	6709213
Sinclair Lookout	community facility/lookout	364681	6710470
Wandsworth	surrounding residence	369683	6702942
Wattle Vale	surrounding residence	366037	6711845

Appendix B

Eungai



Highfields





Glengyle

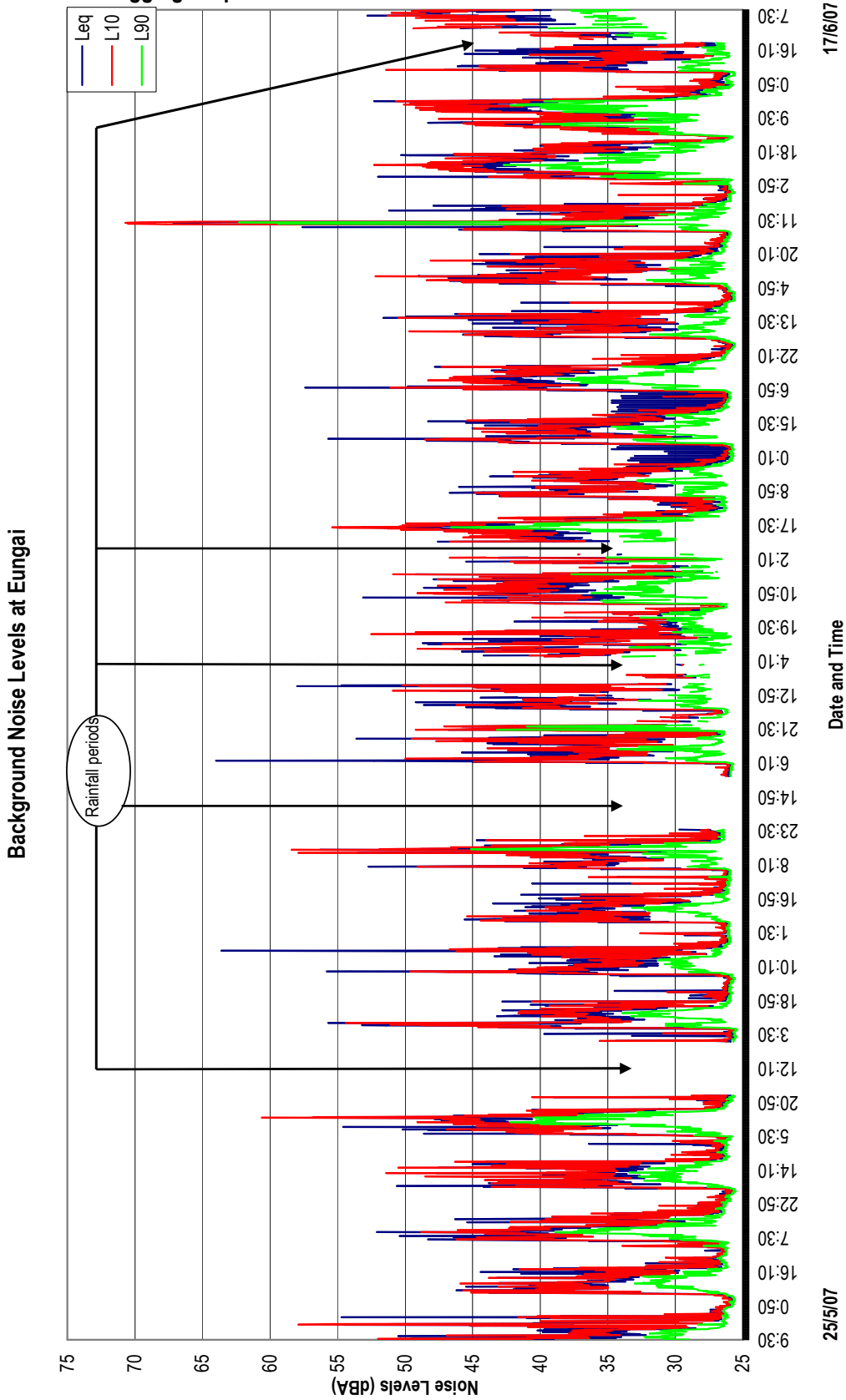


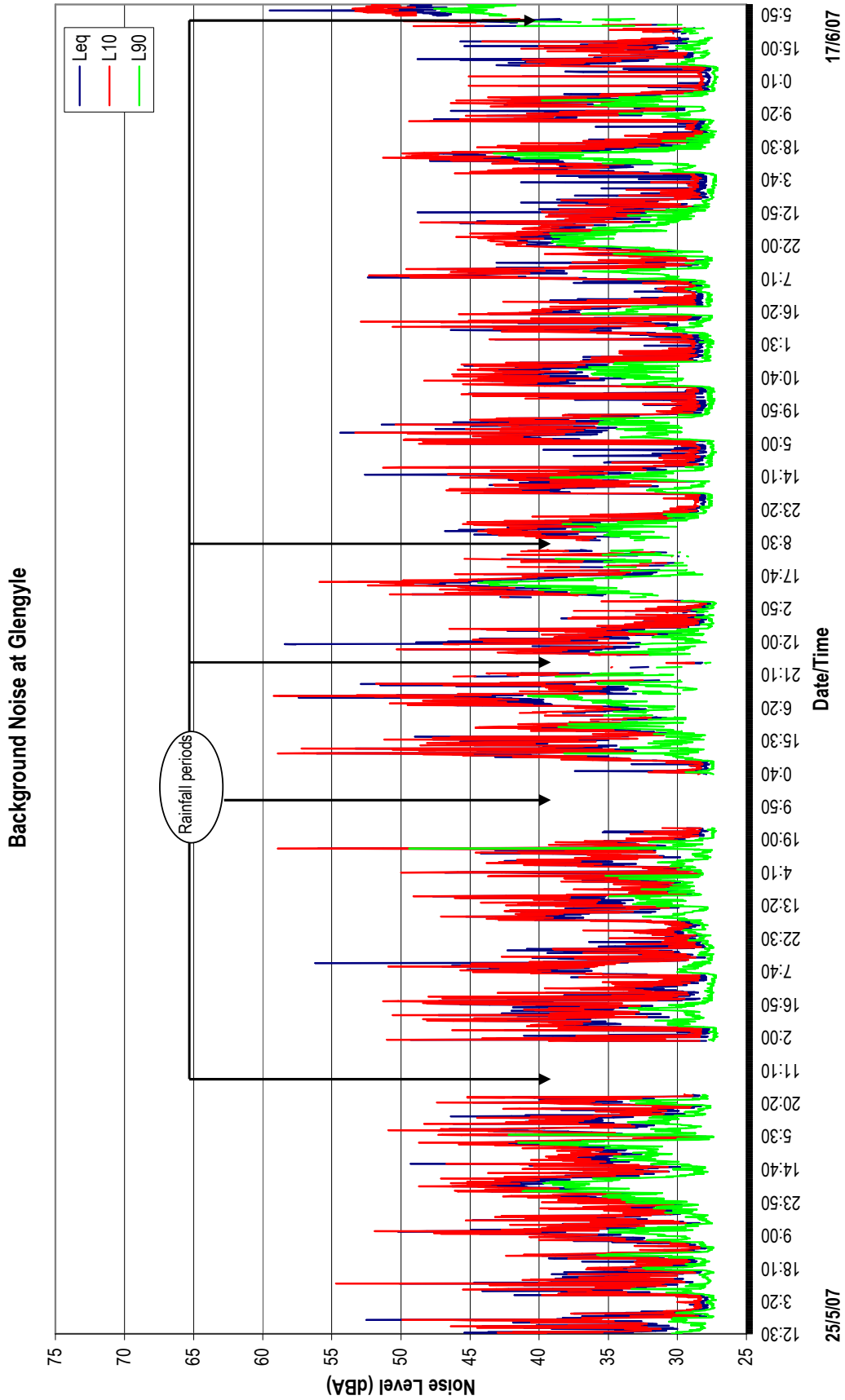
Rose Hill B

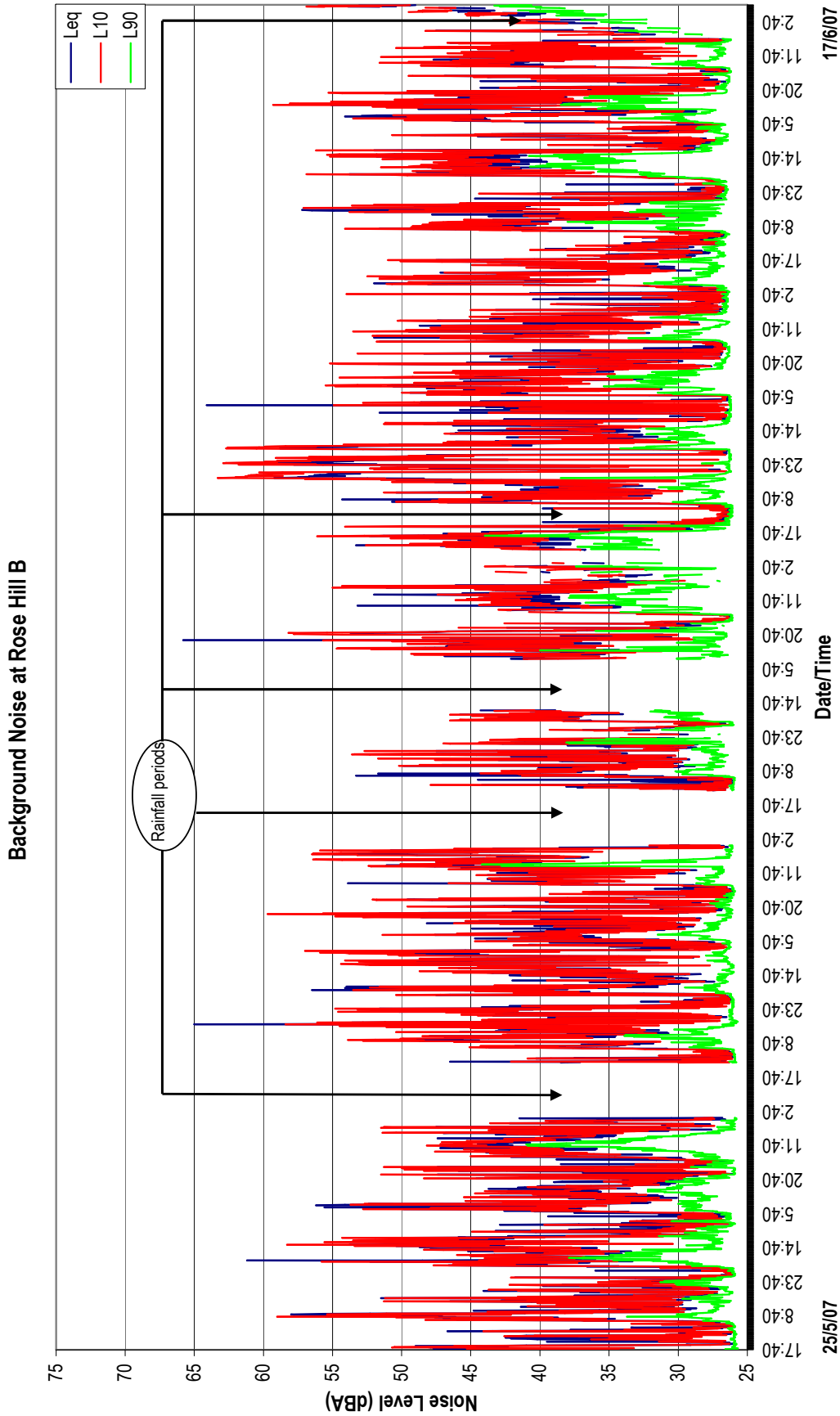


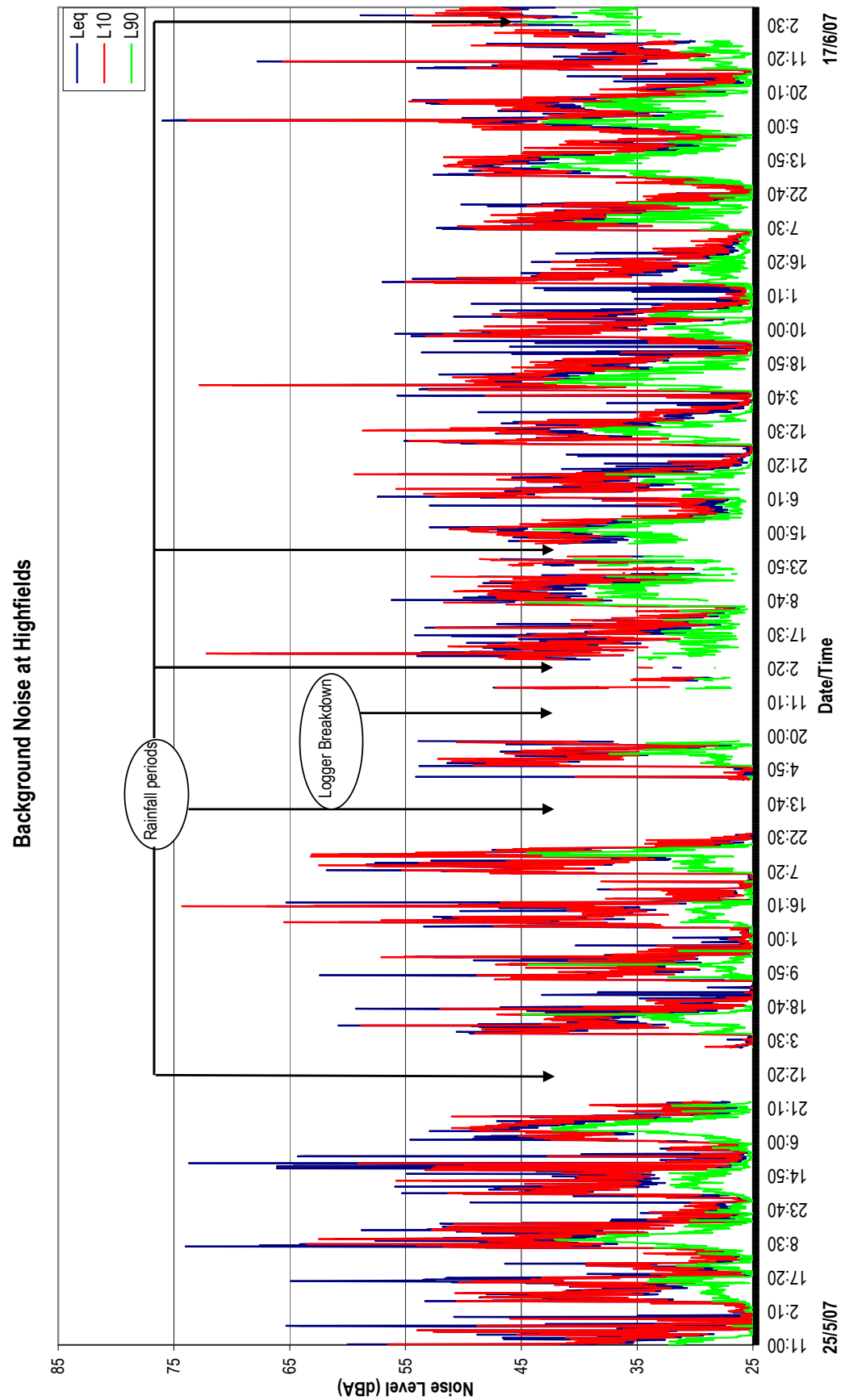
Appendix C

Overall Noise Logging Graphs



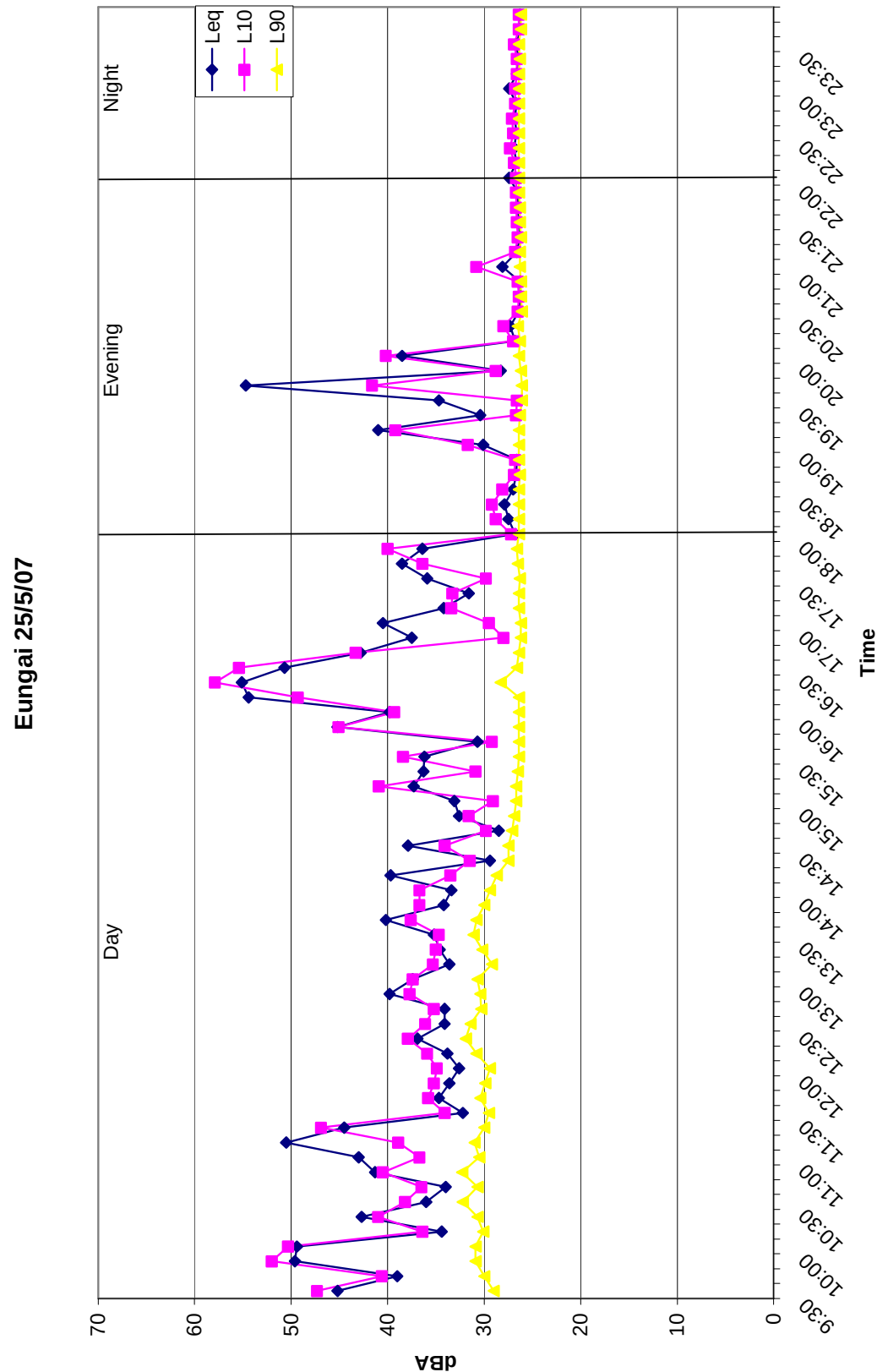




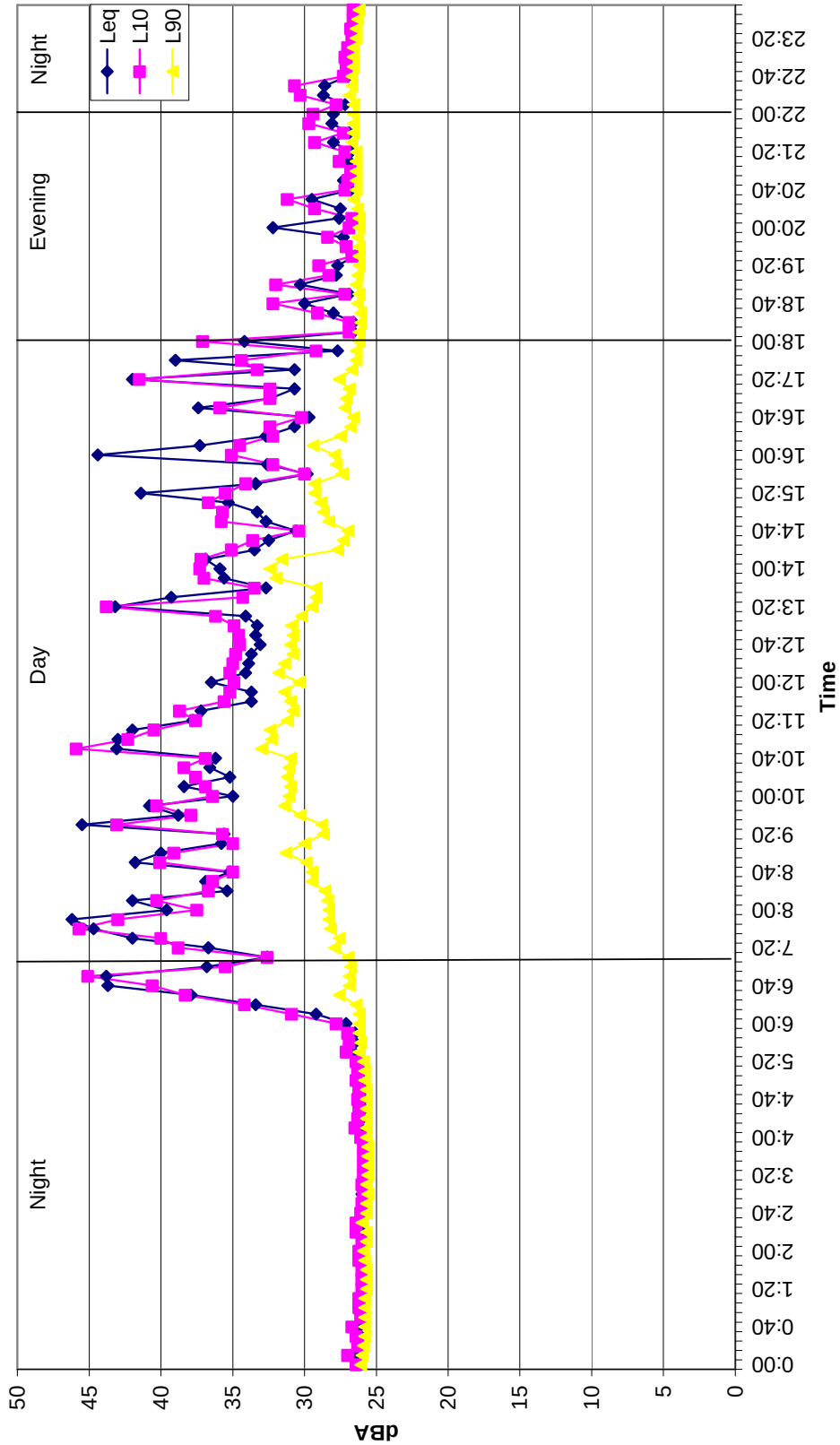


Daily Noise Logging Graphs

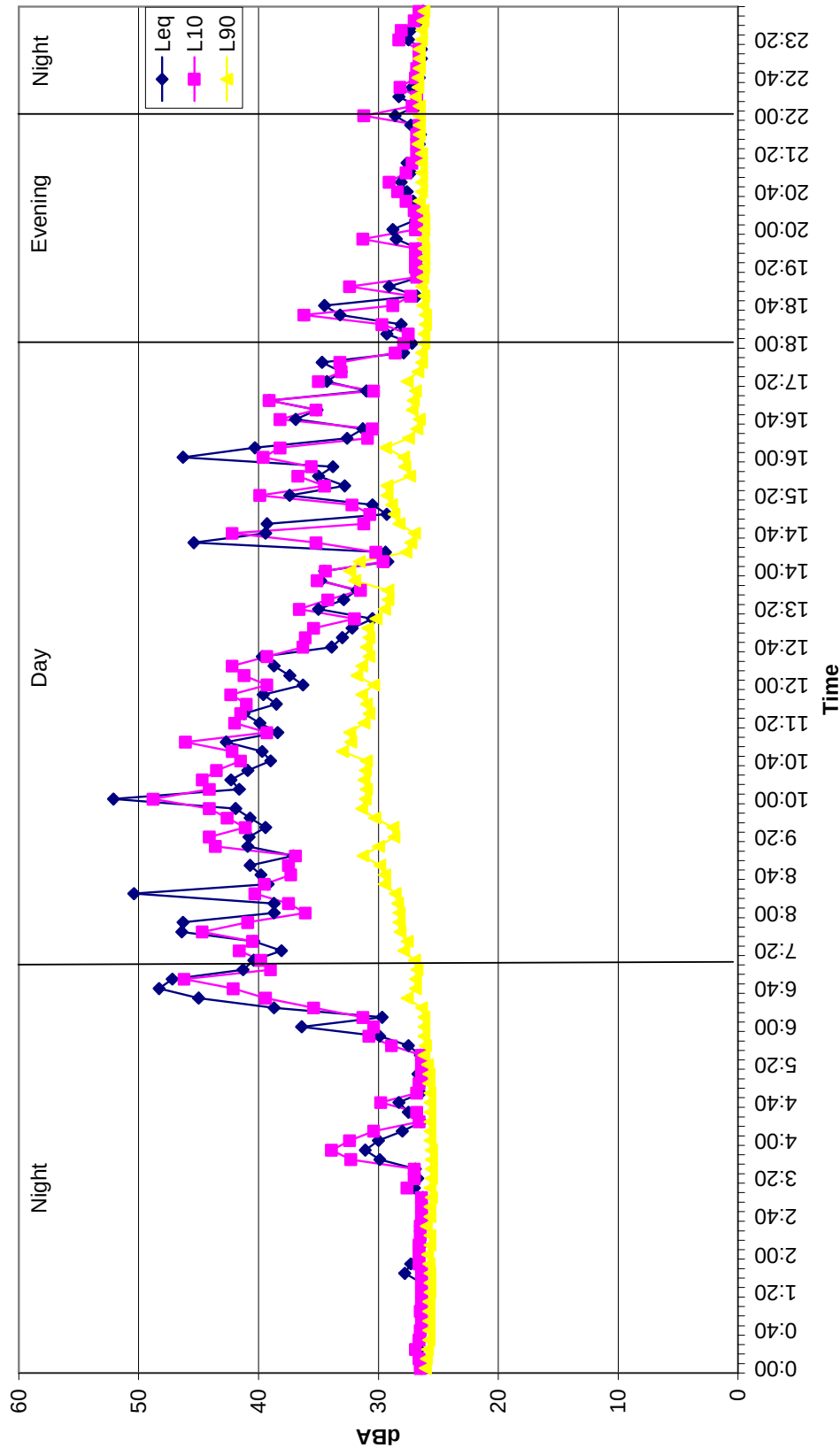
Note: Missing data has been excluded due to adverse weather conditions during that time period



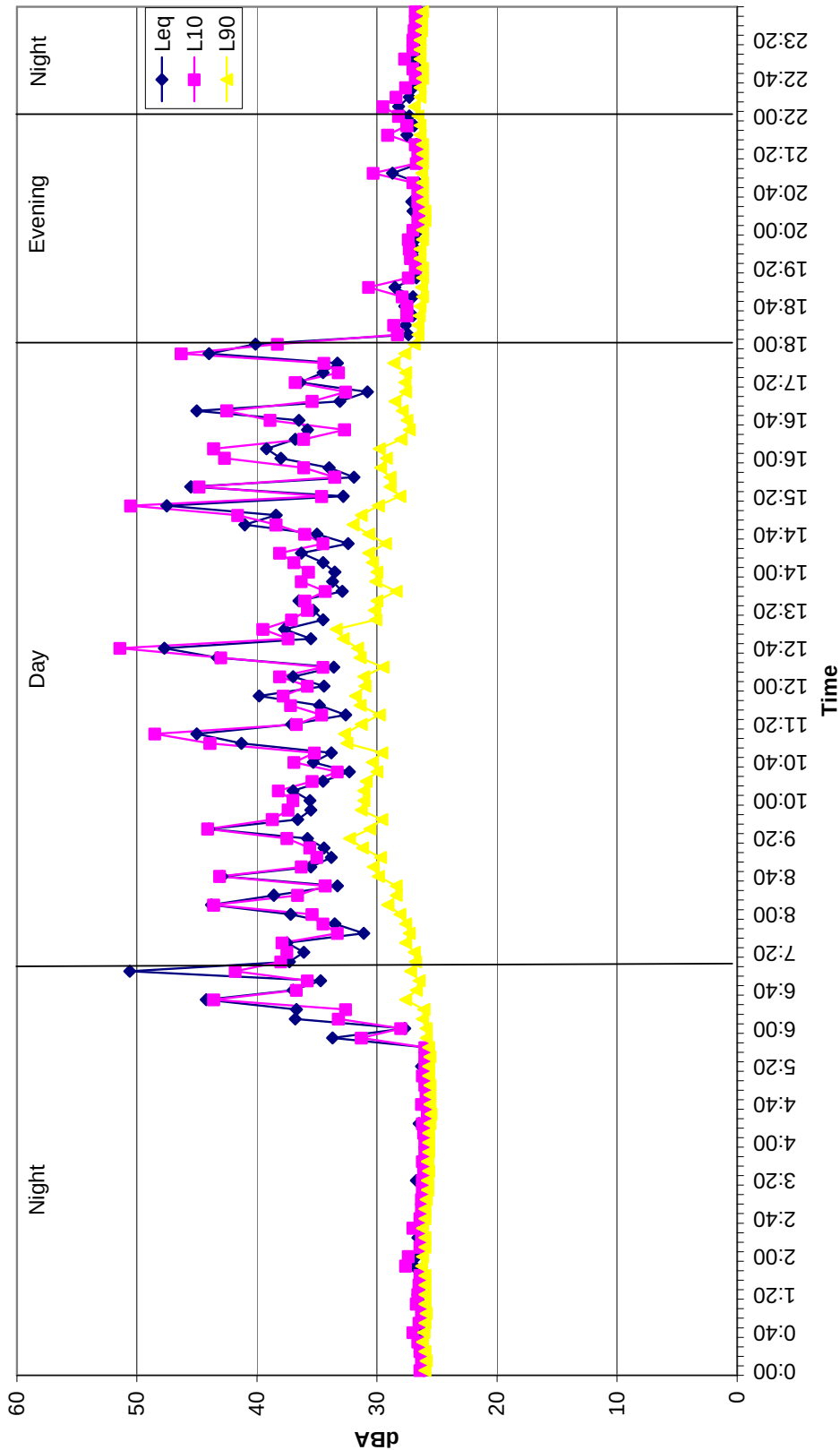
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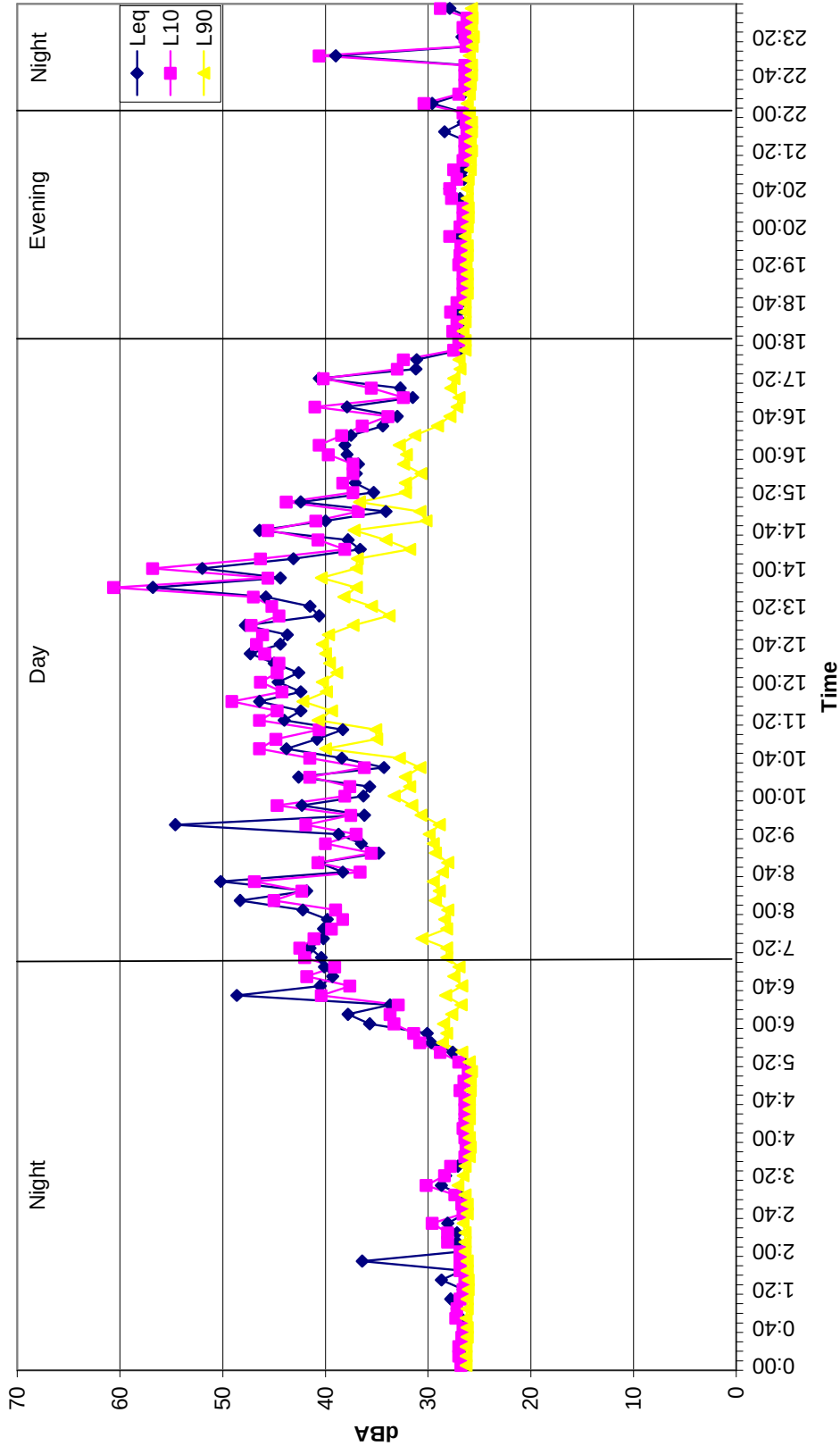
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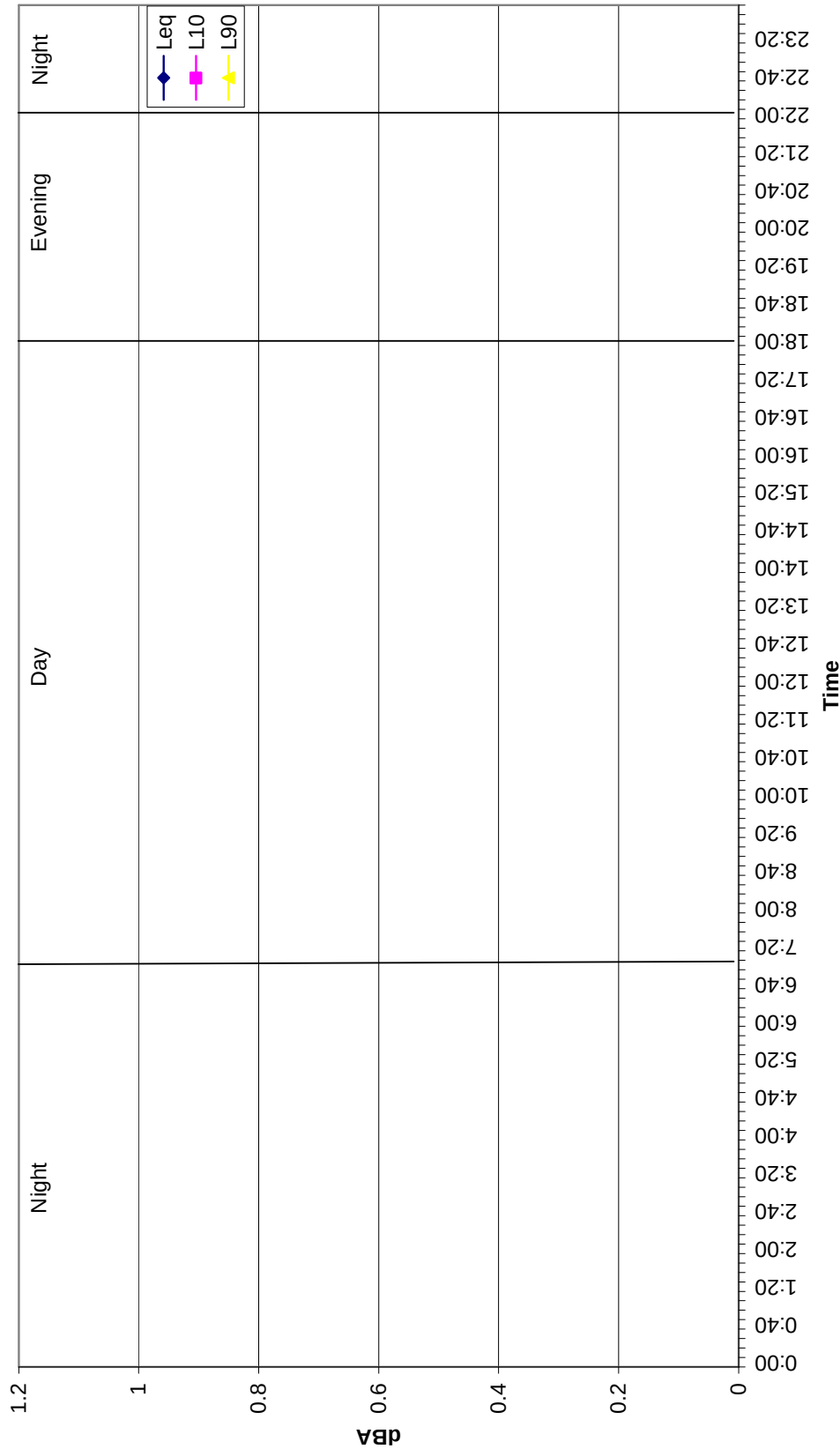
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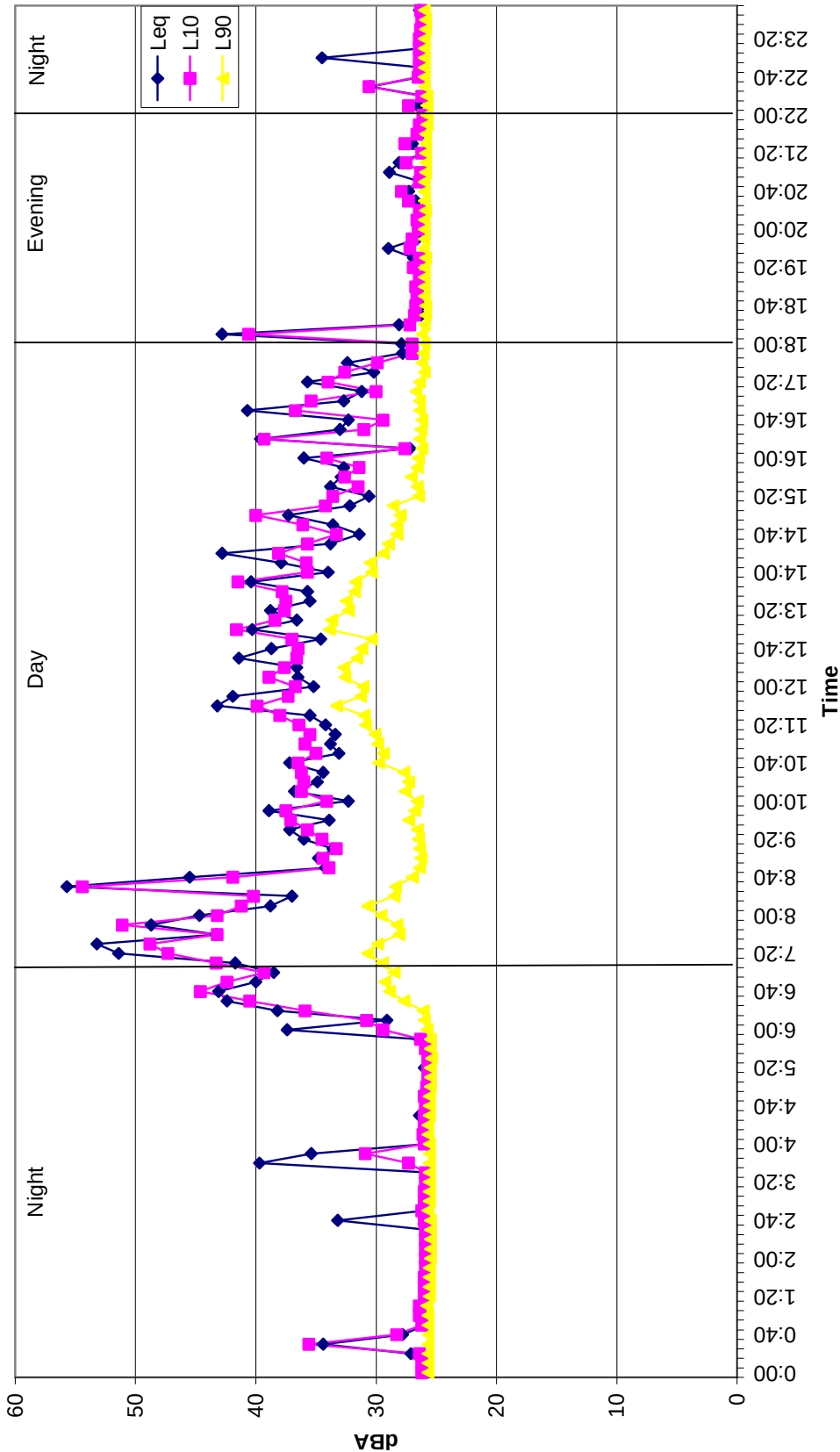
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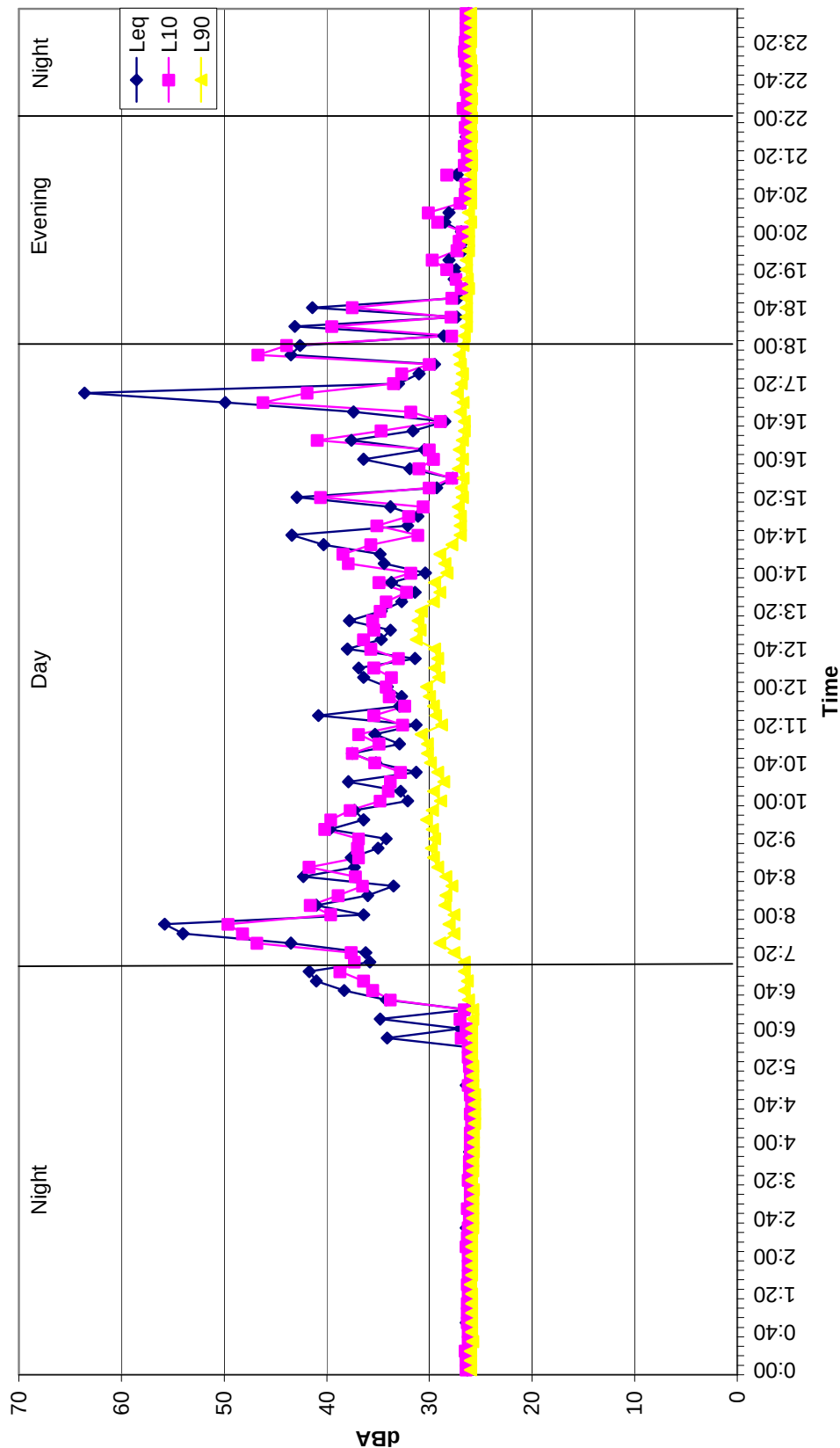
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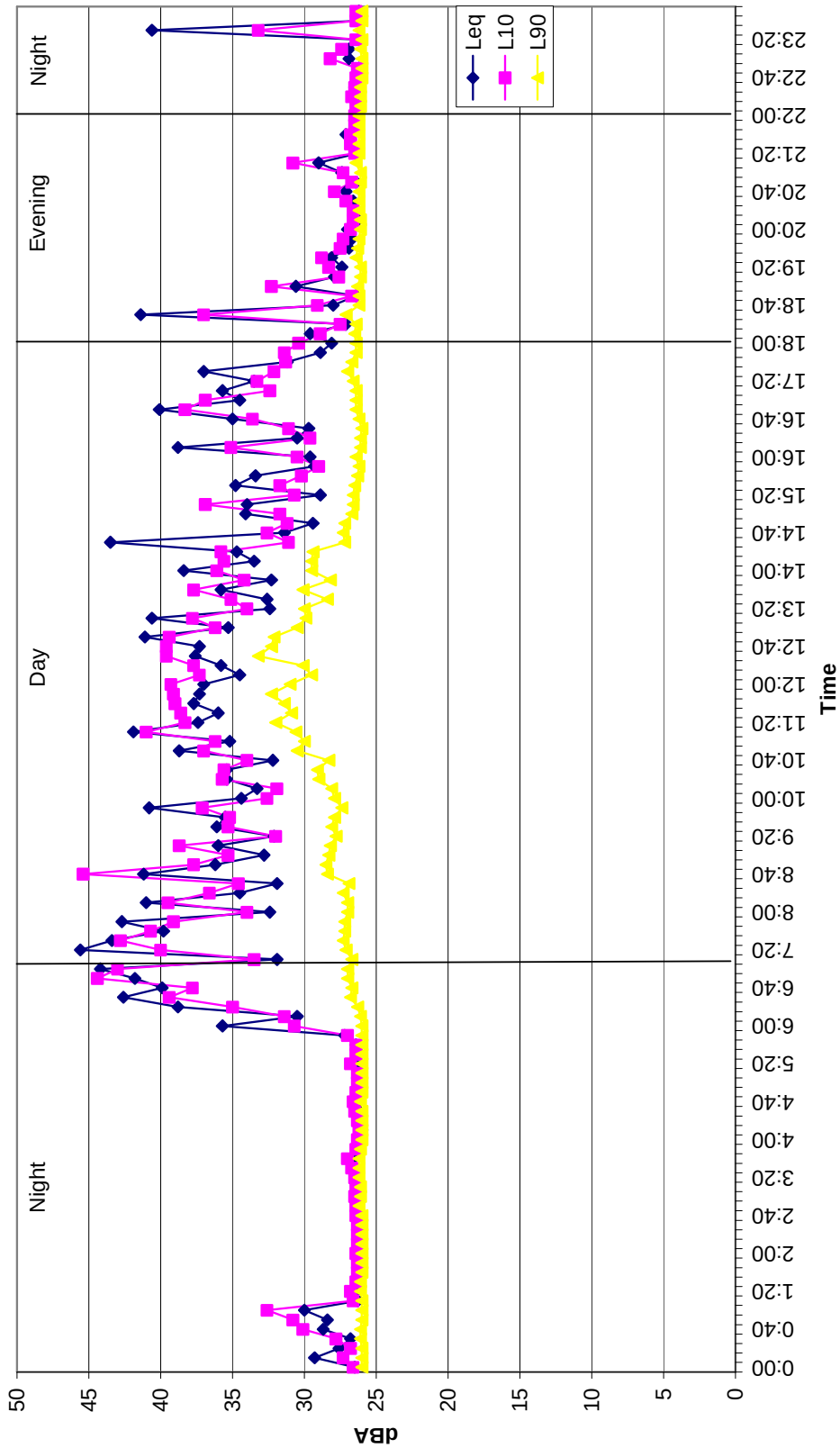
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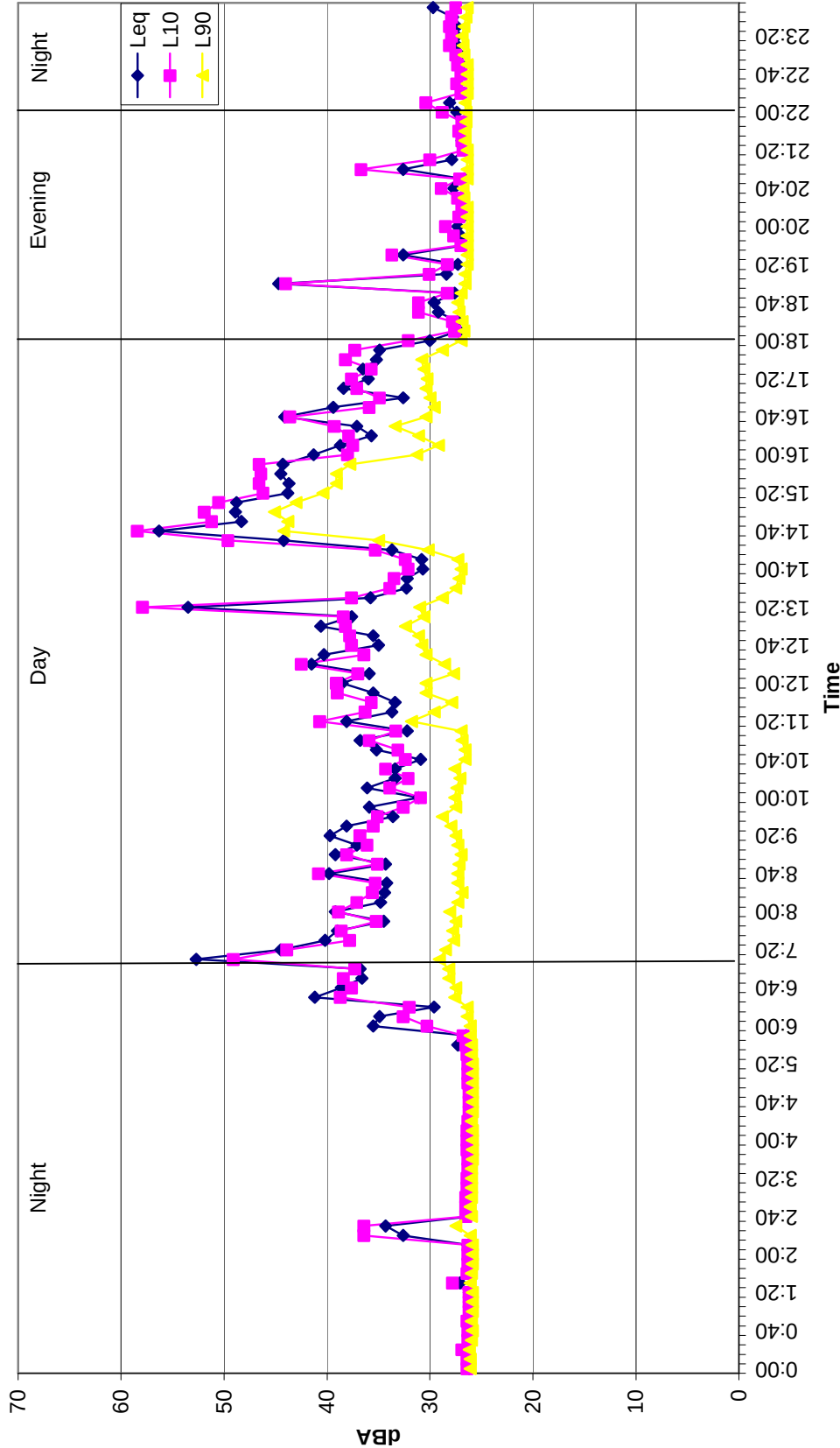
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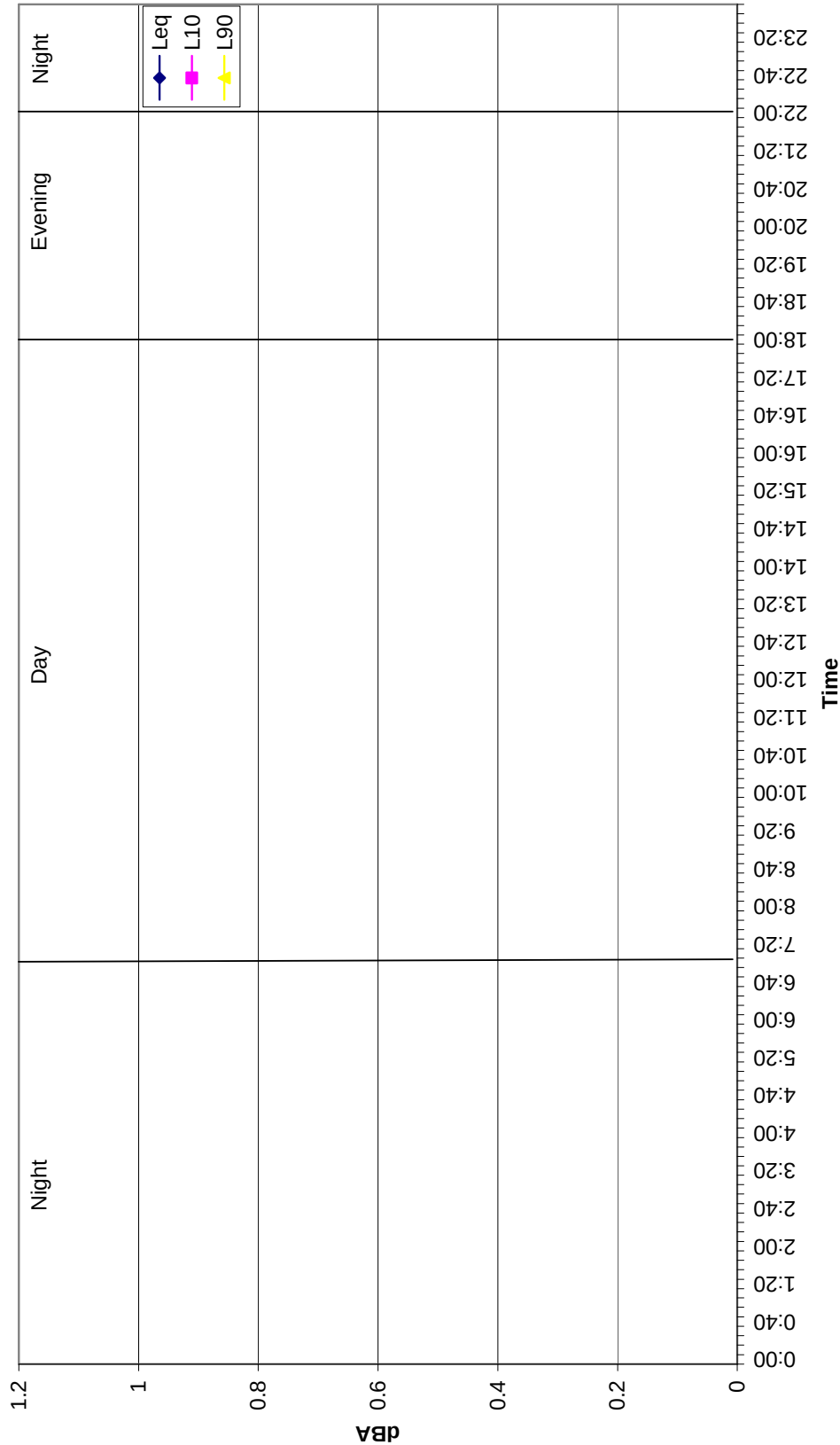
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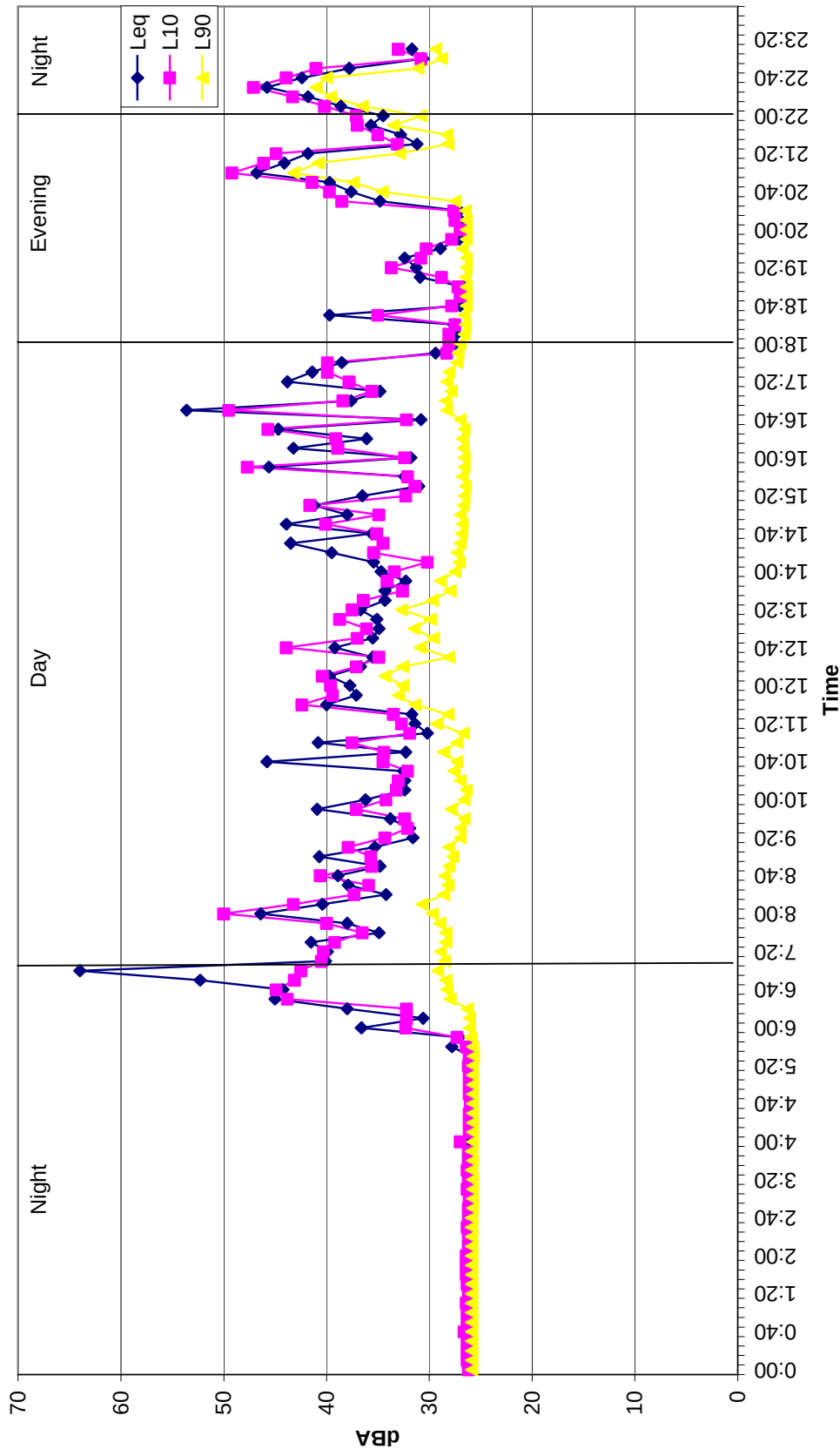
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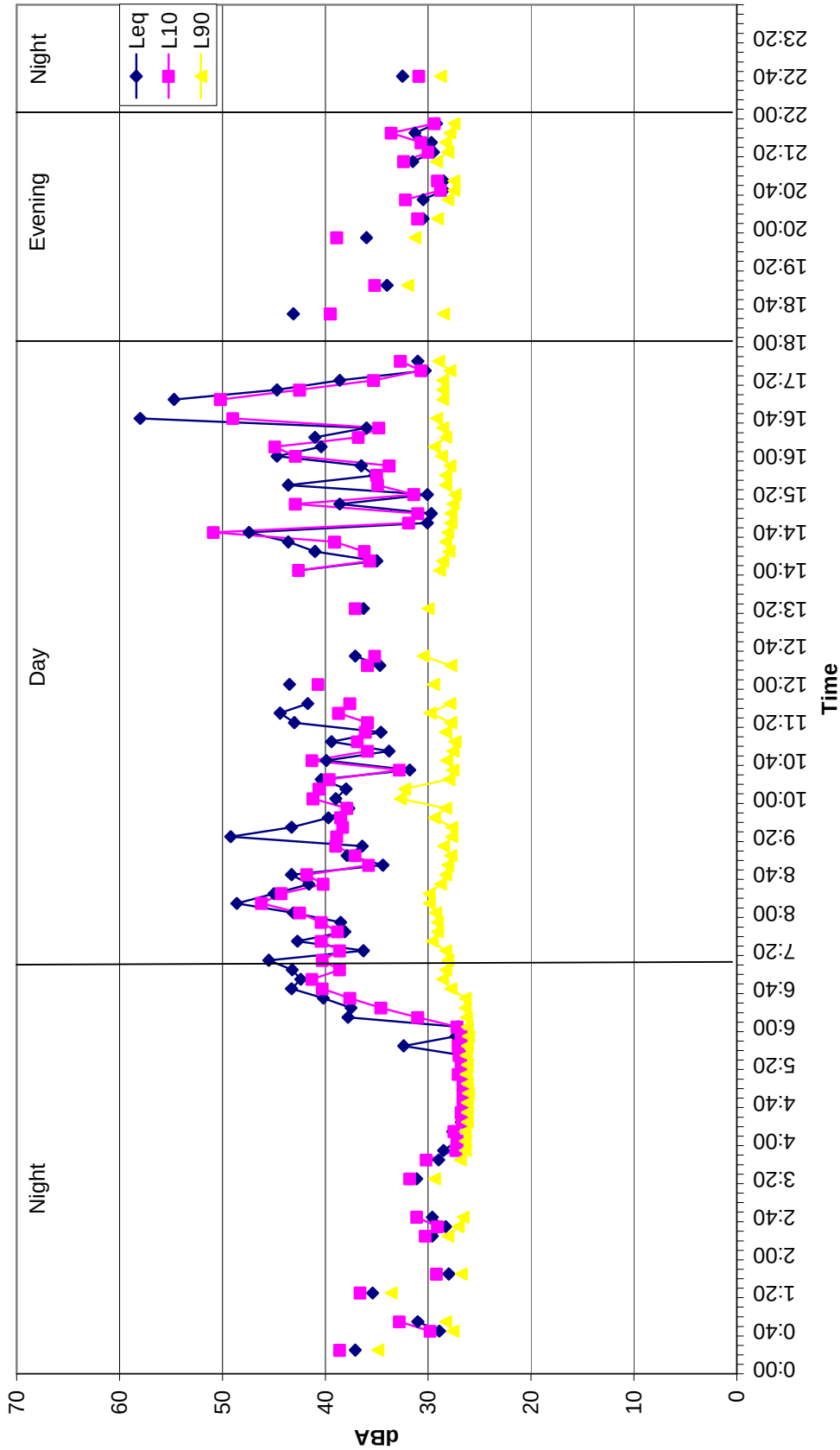
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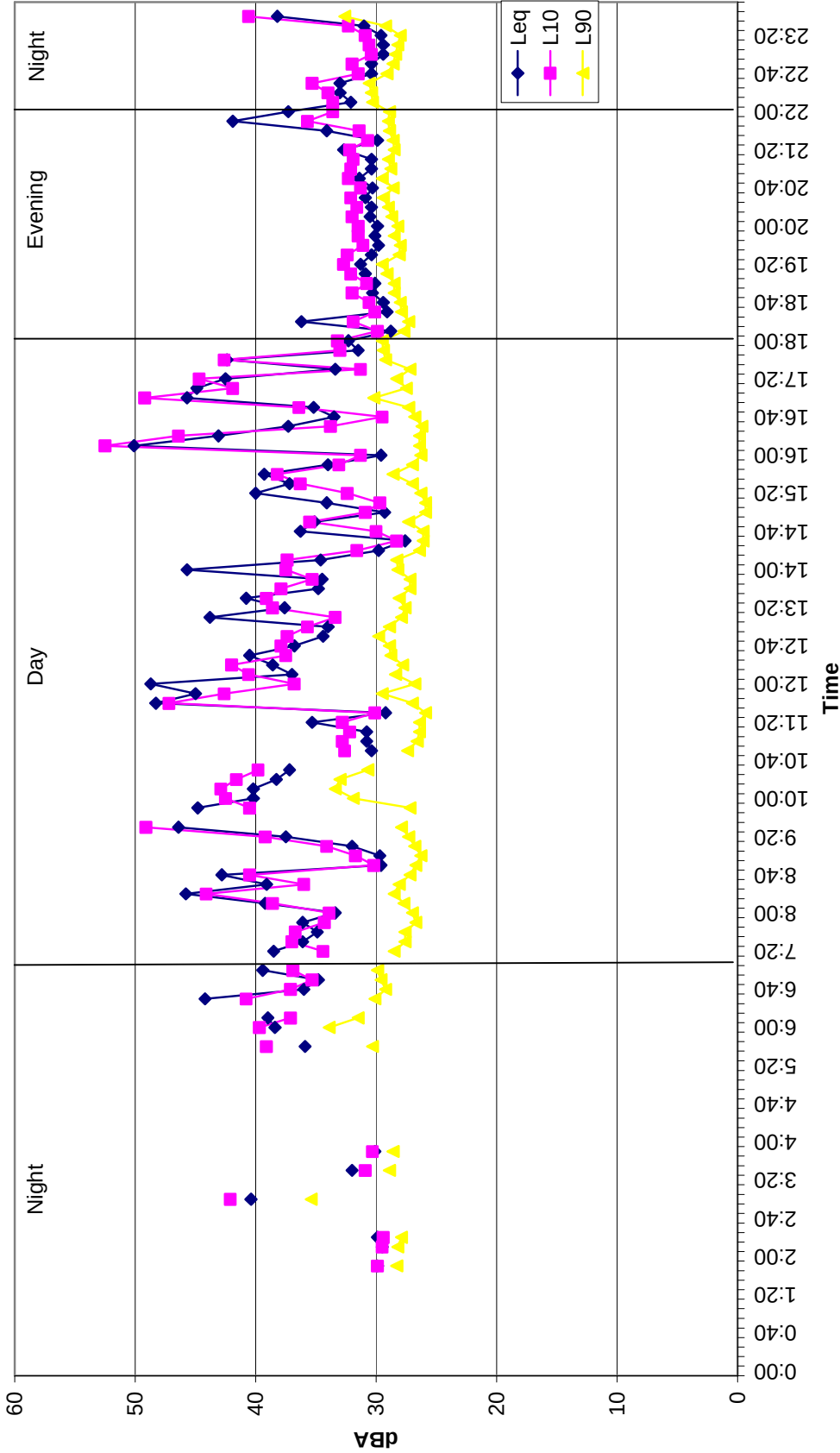
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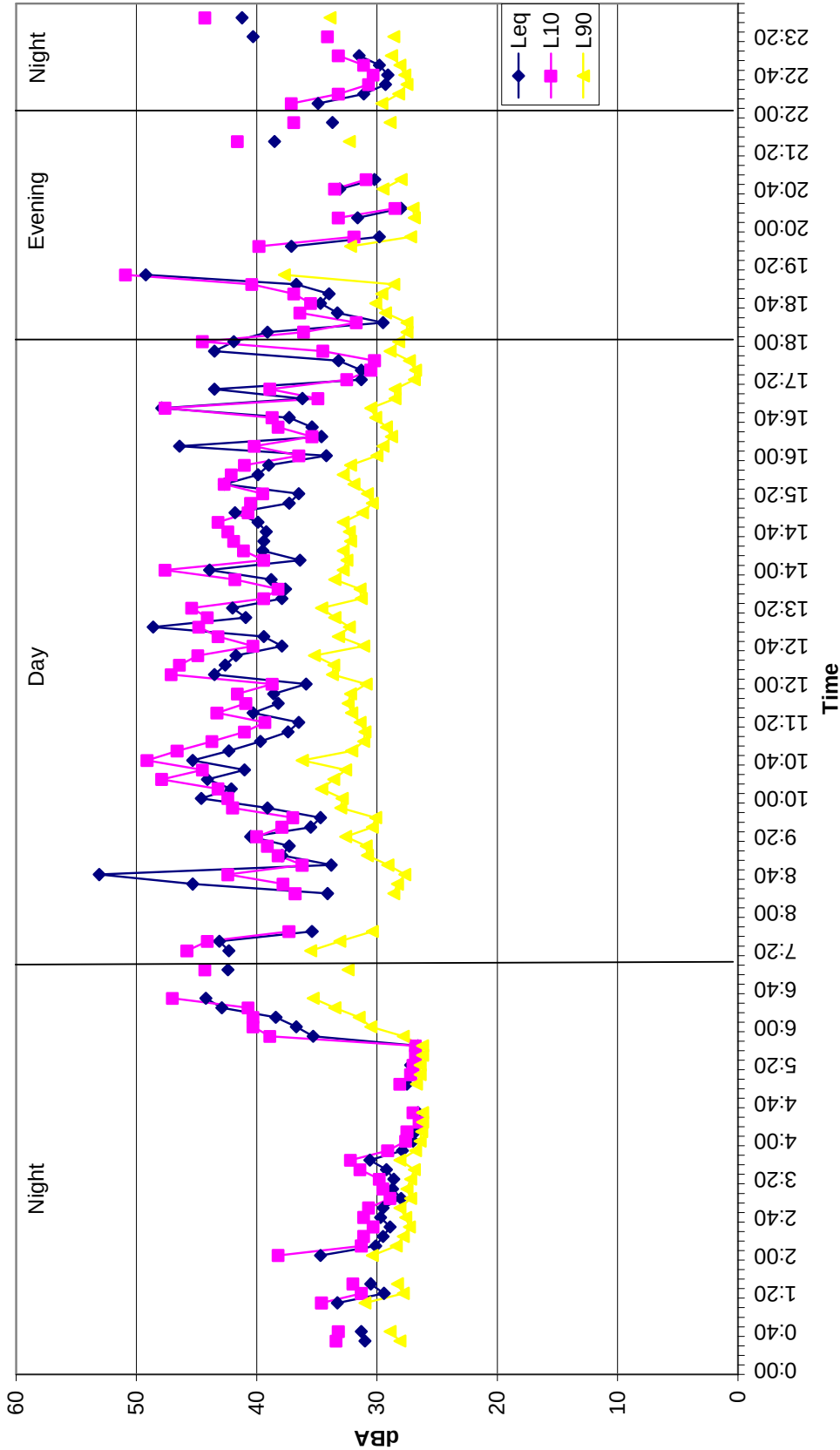
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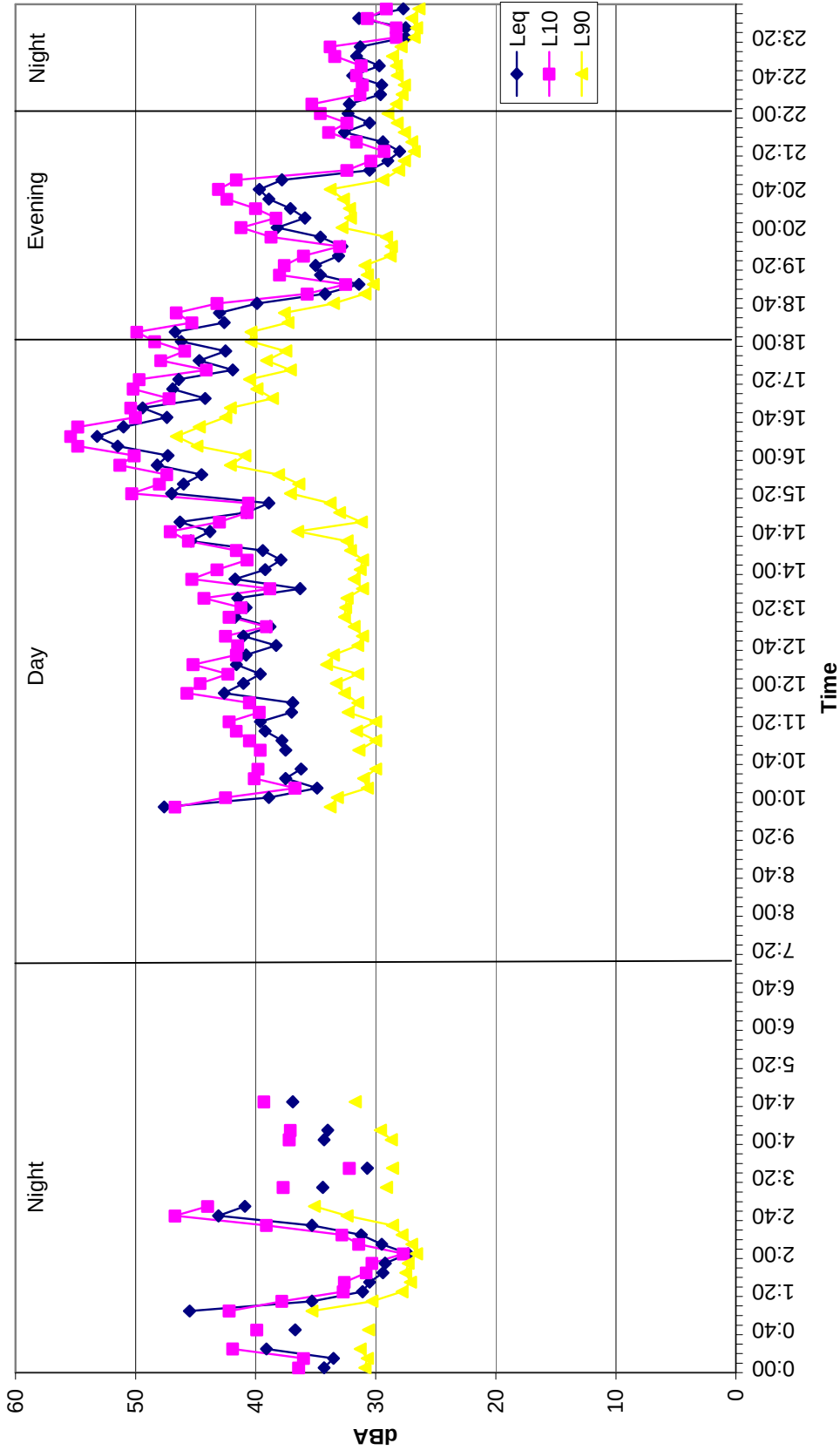
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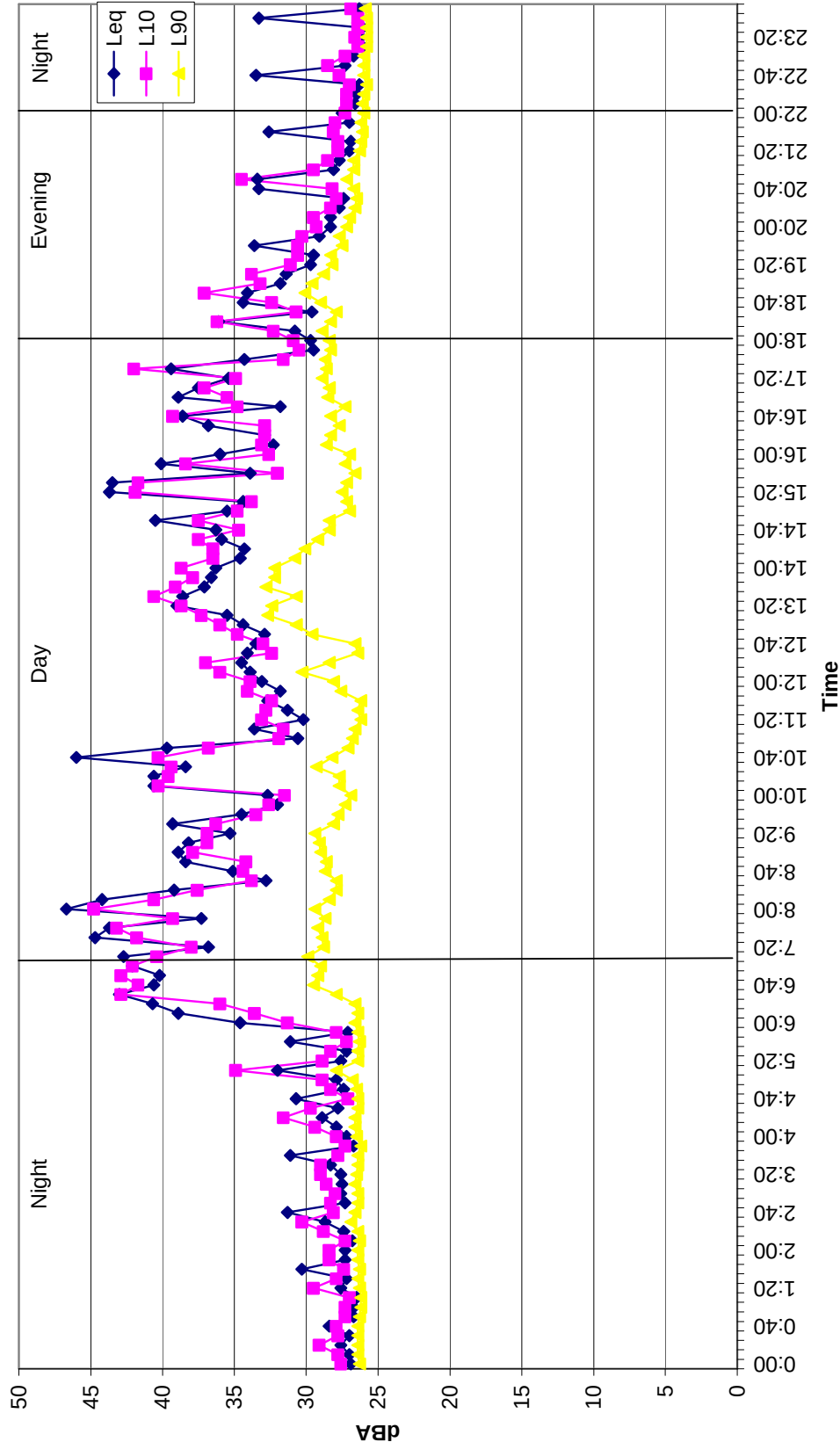
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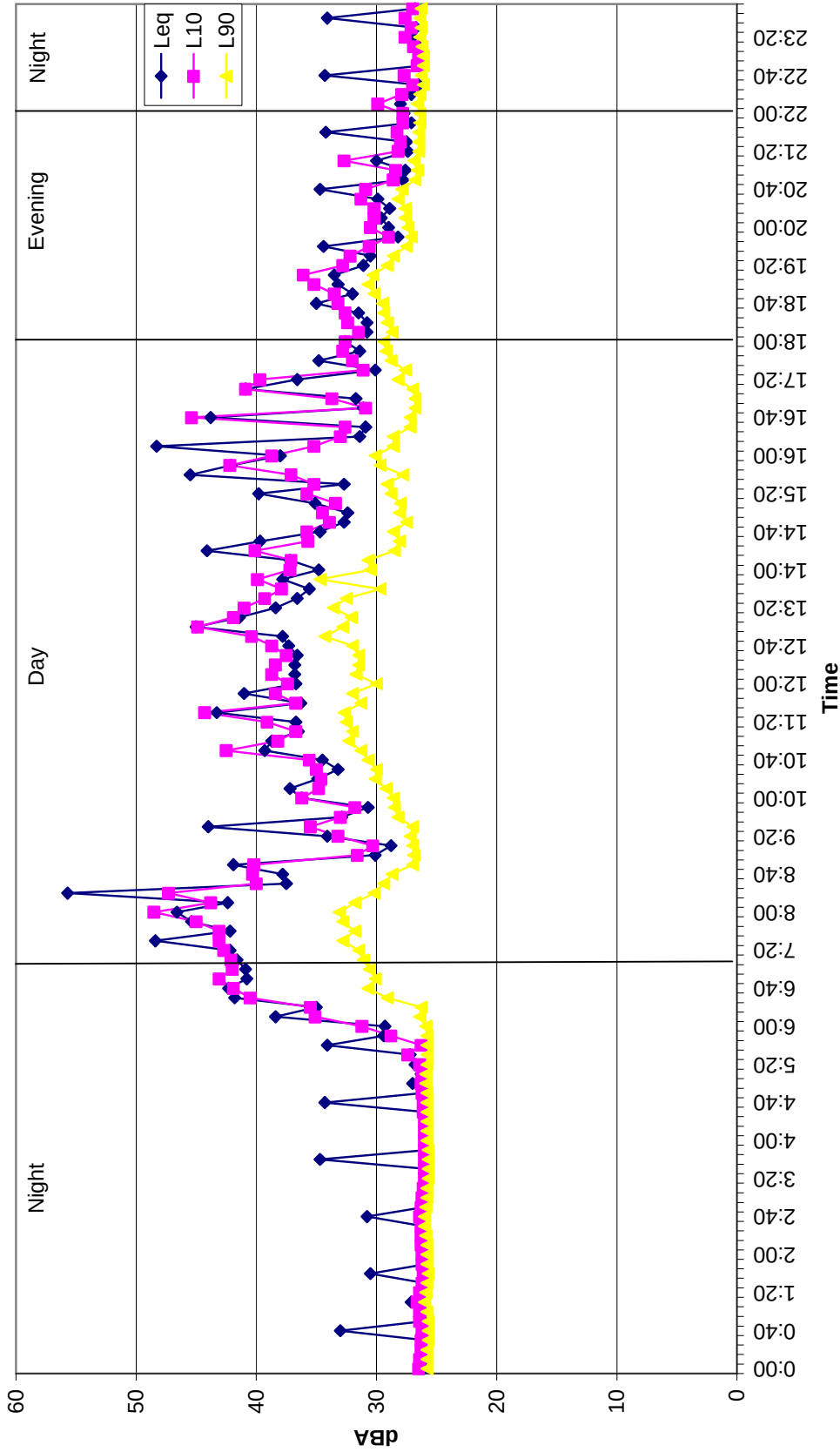
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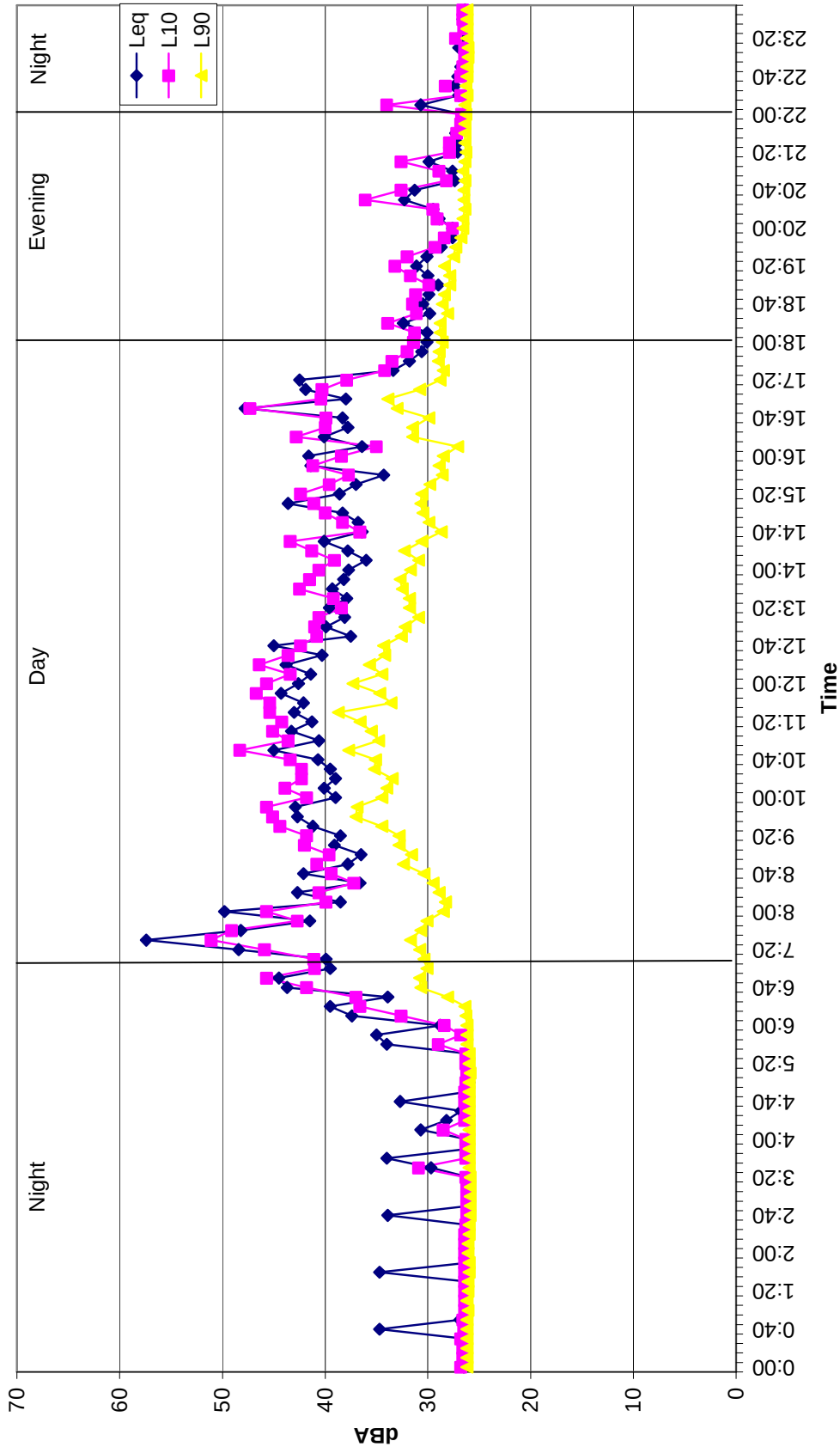
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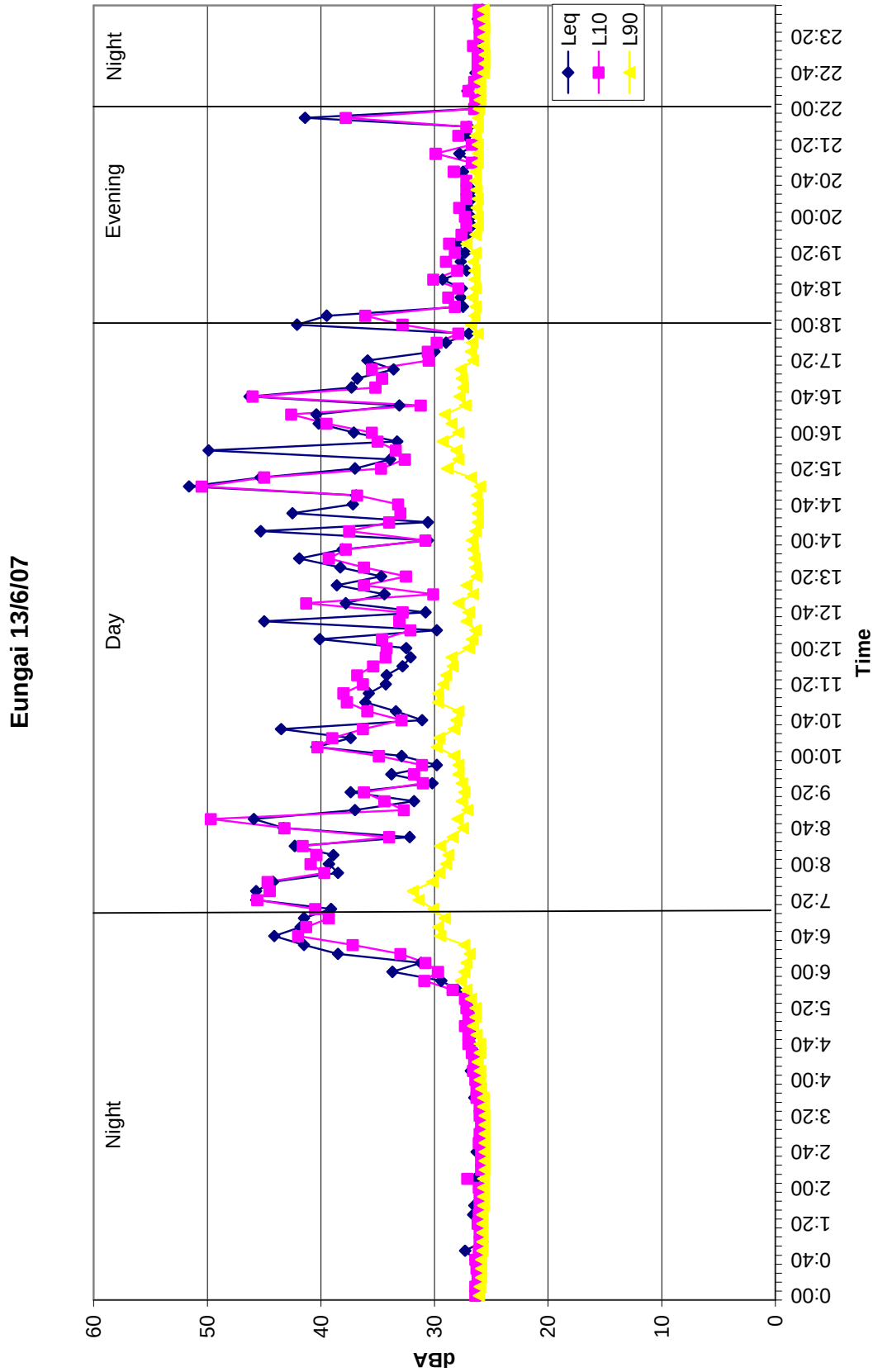


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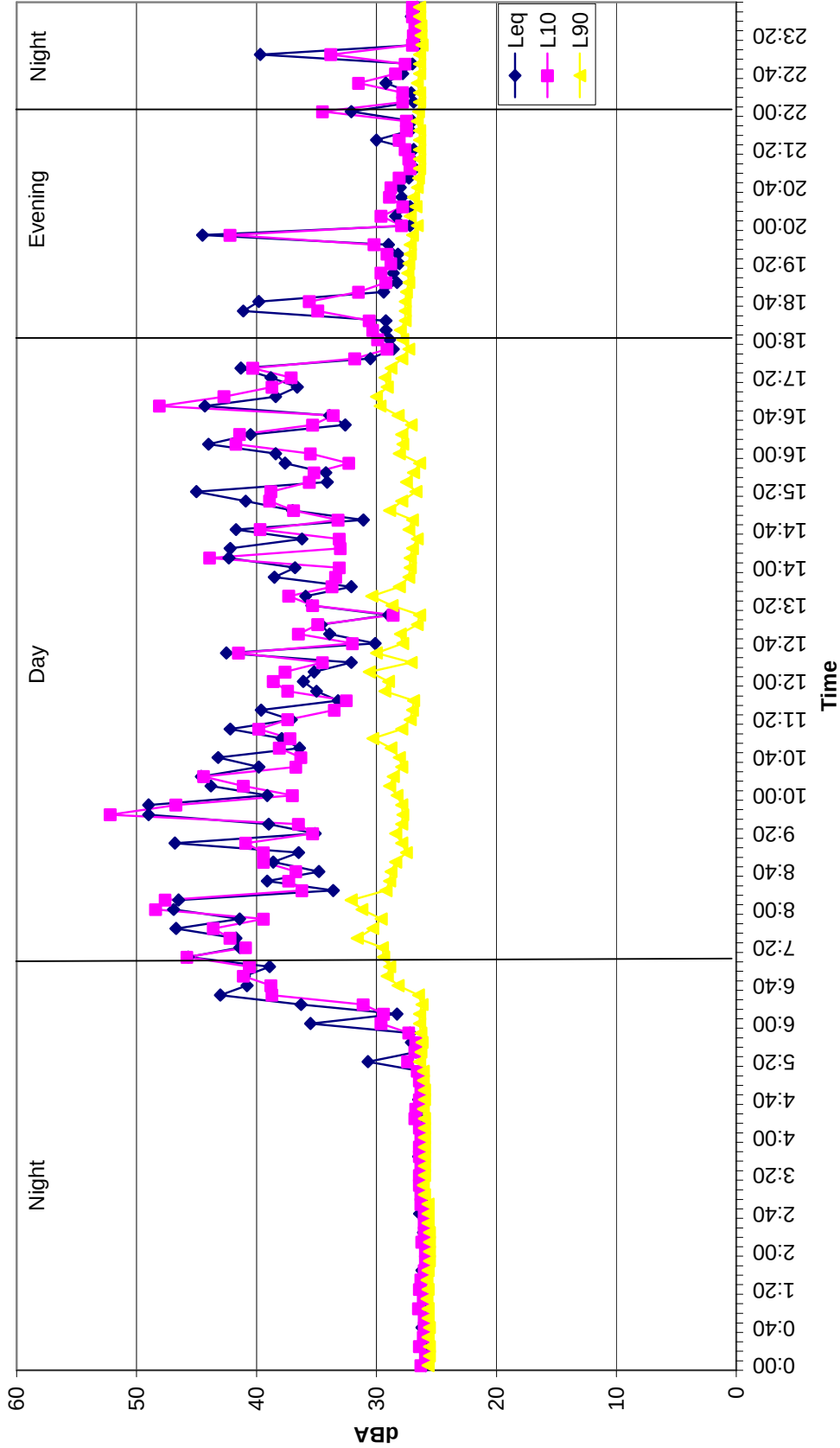


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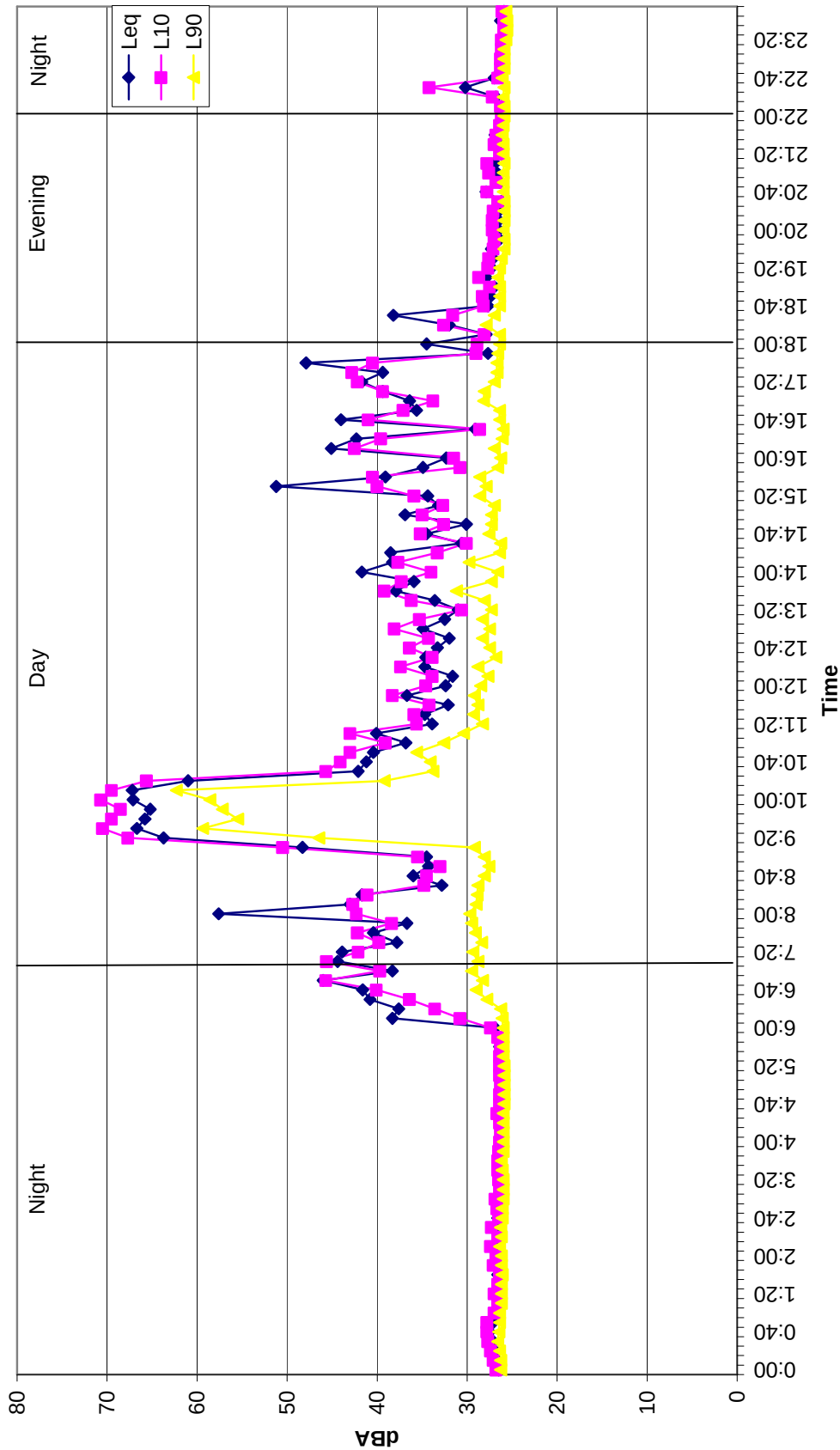




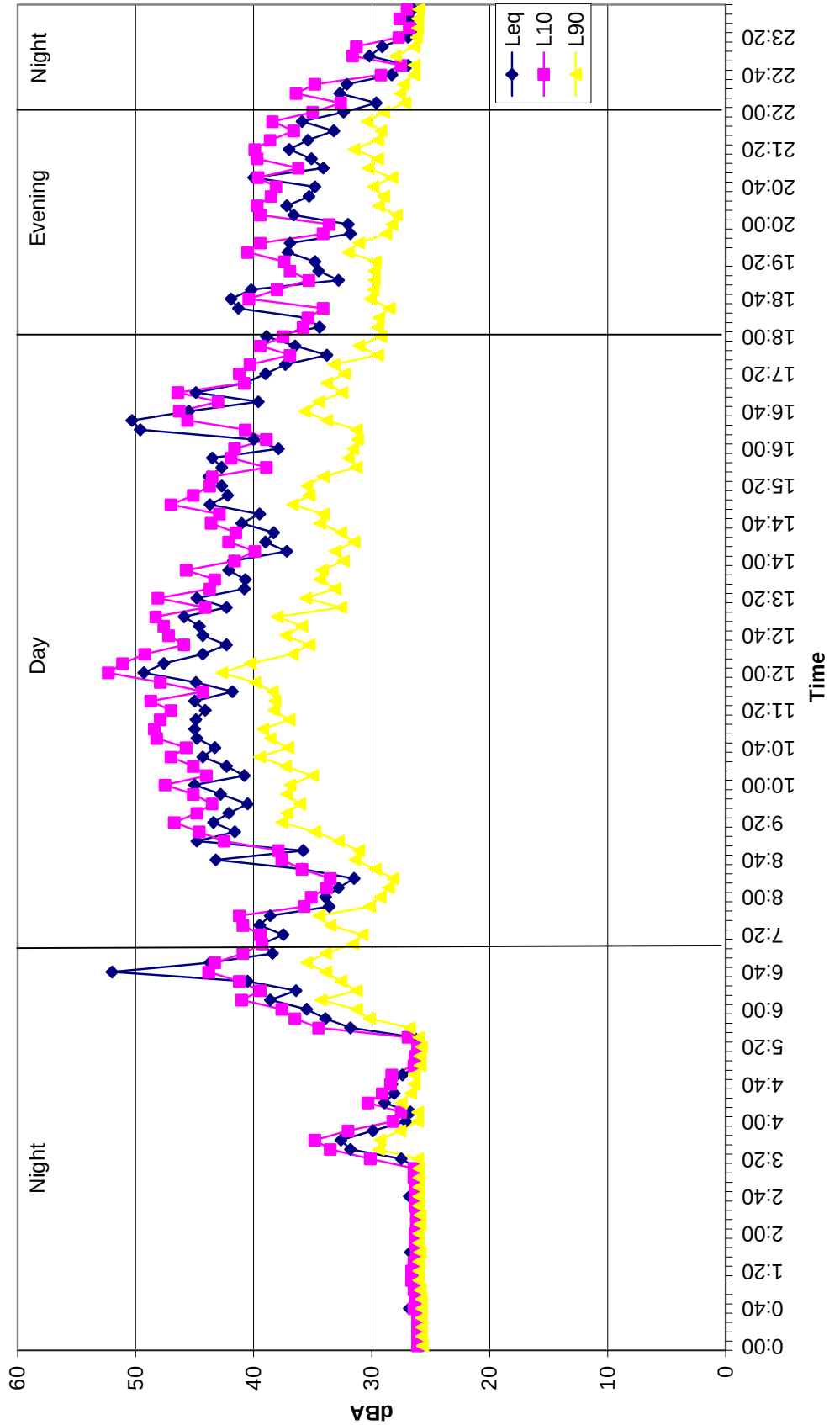
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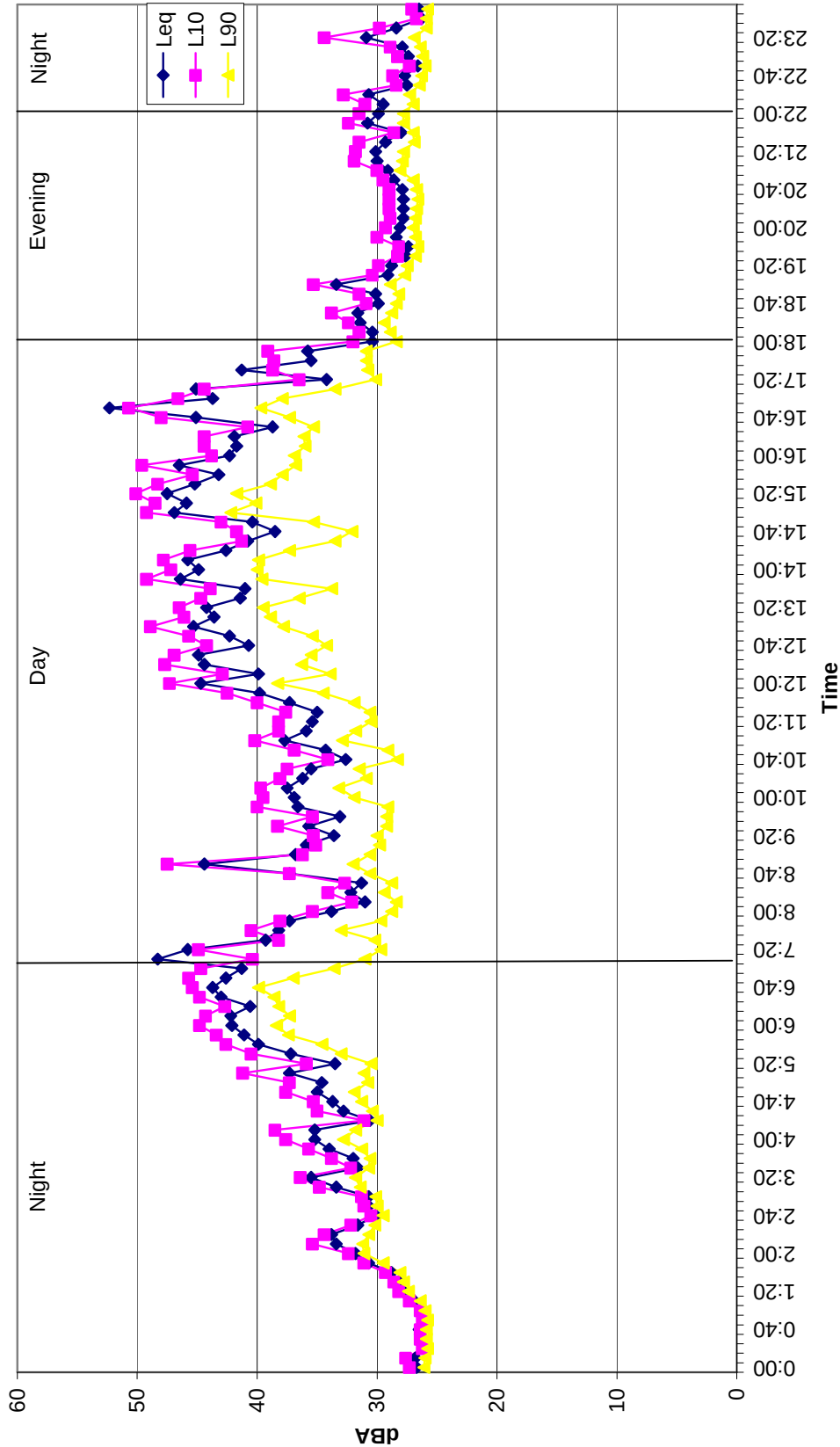
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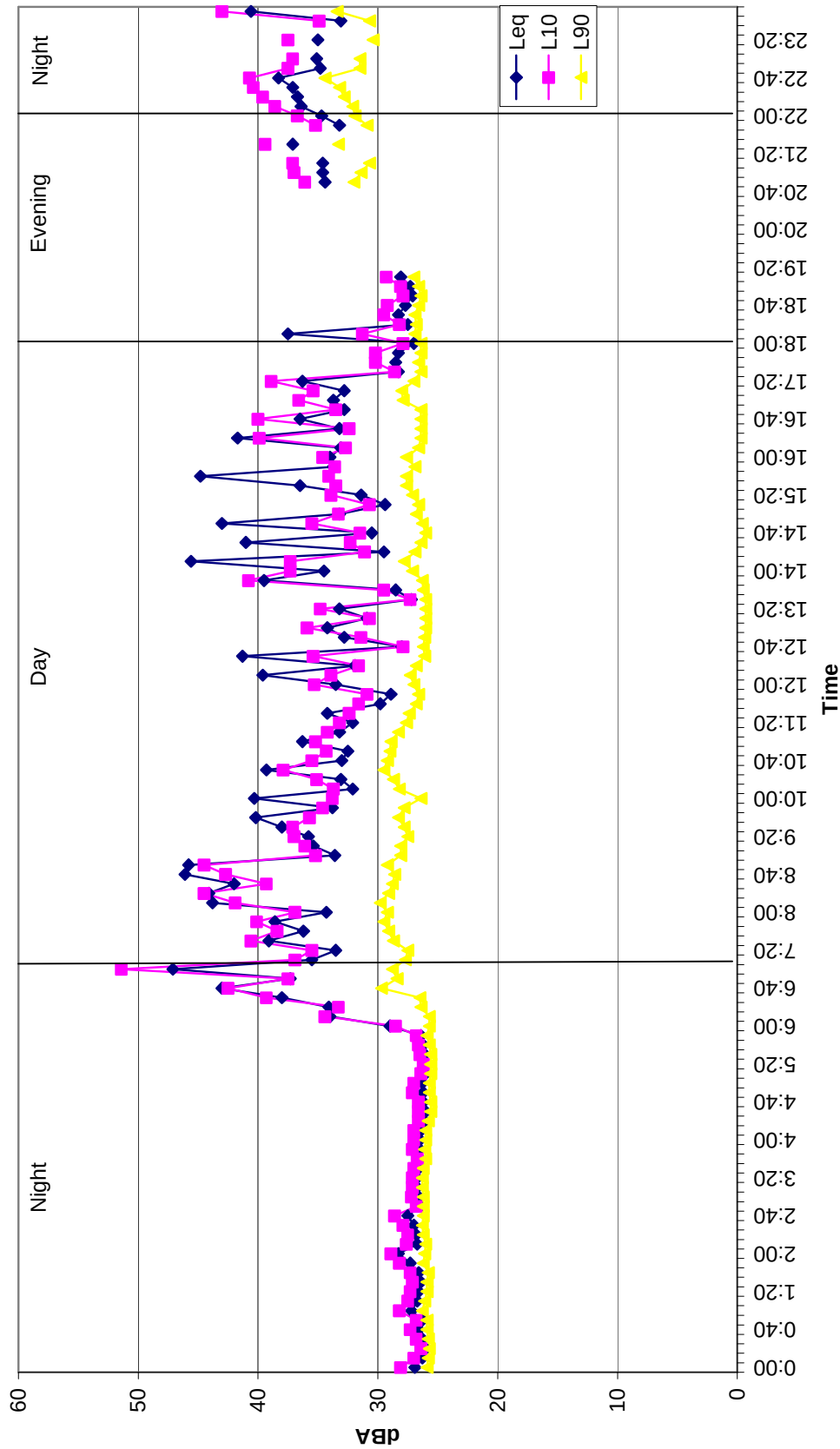
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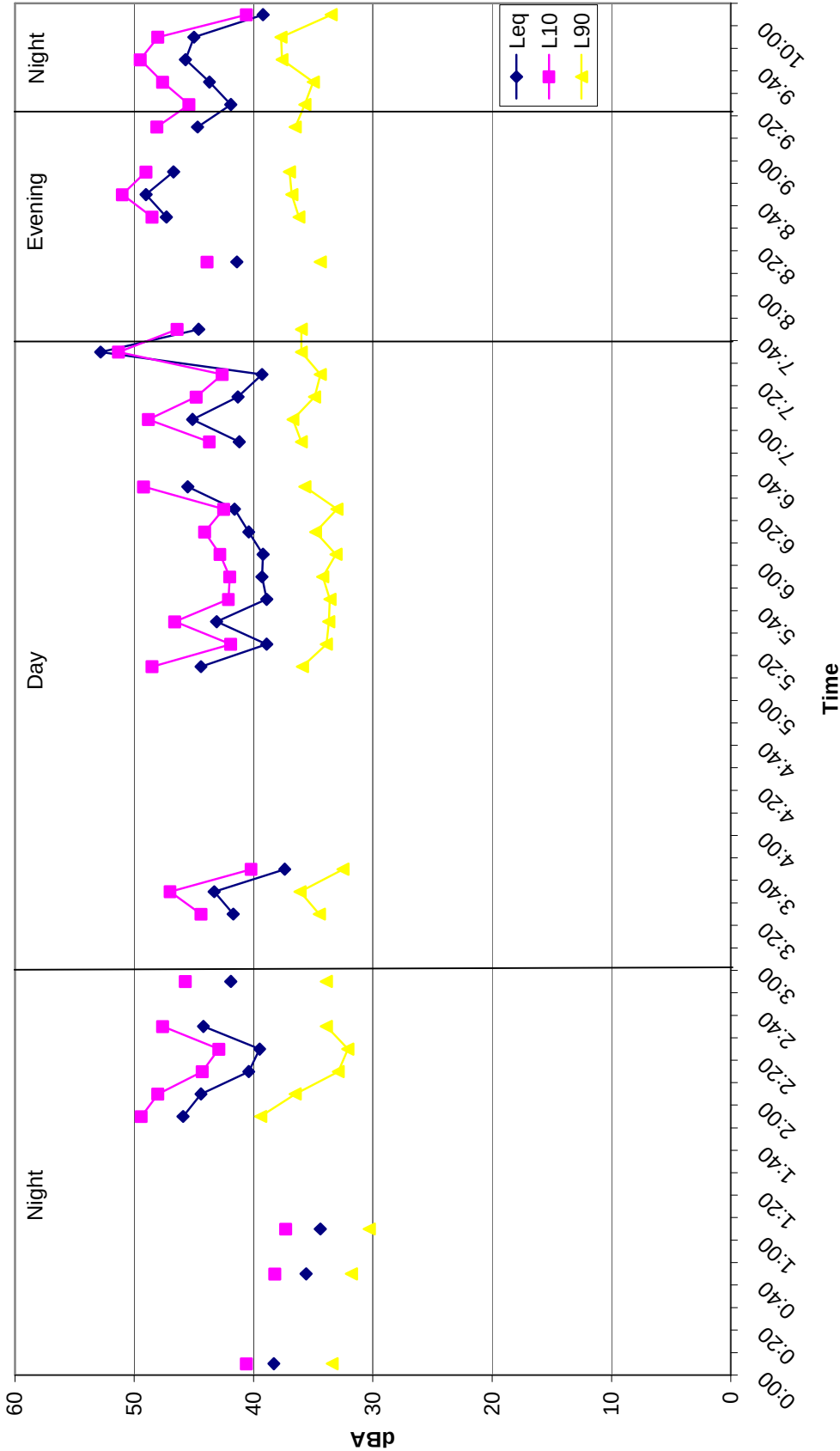
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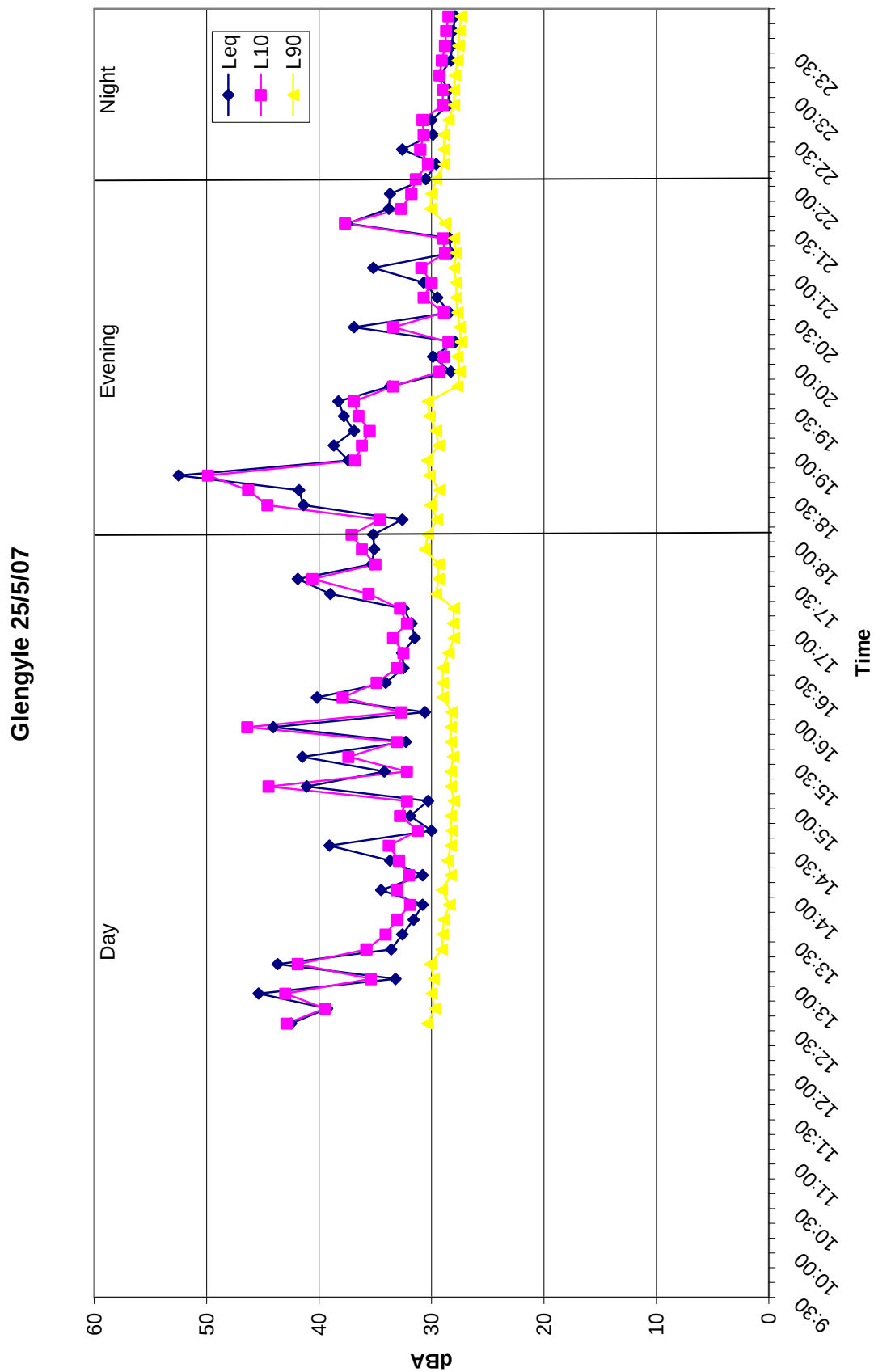


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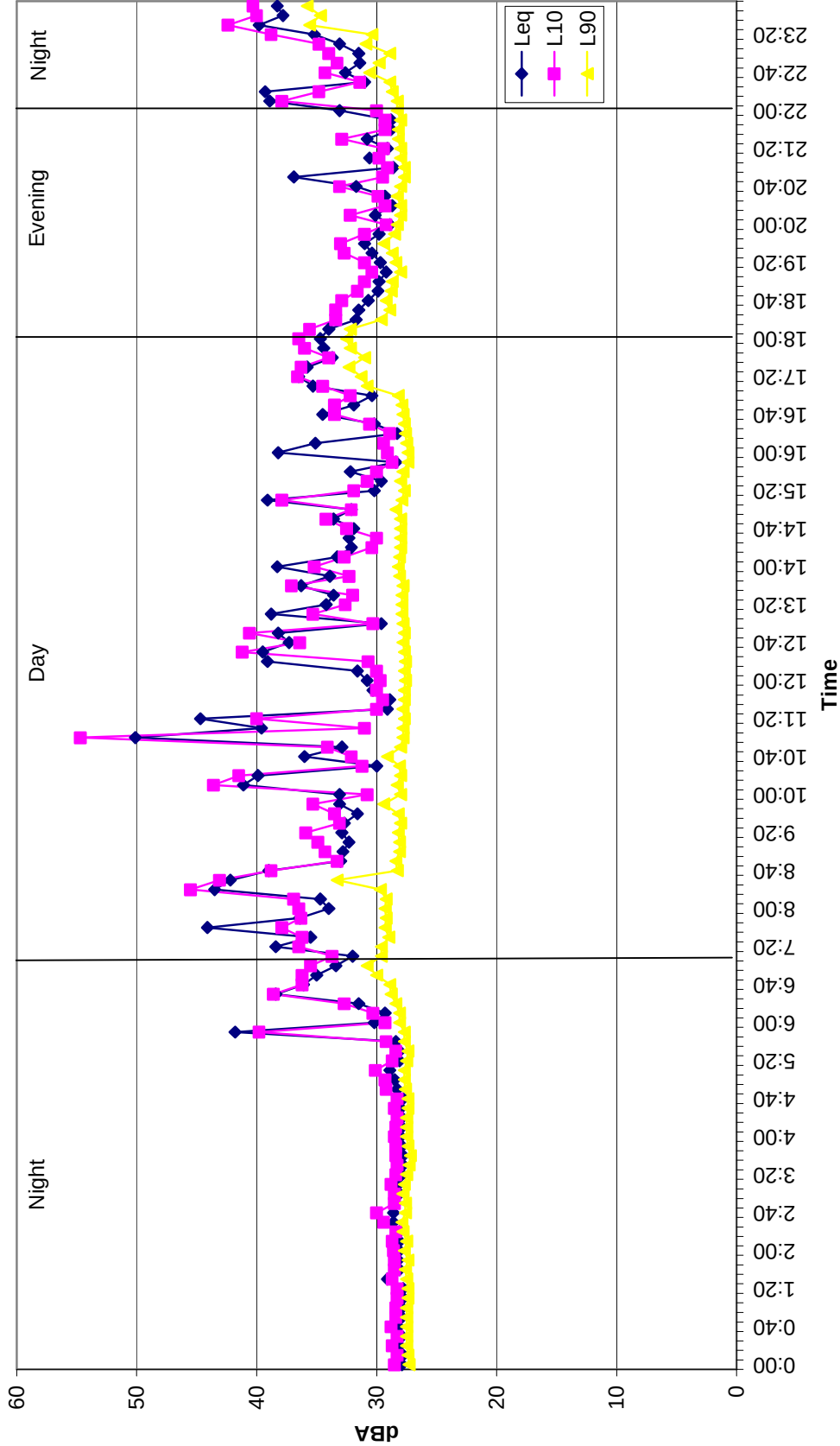


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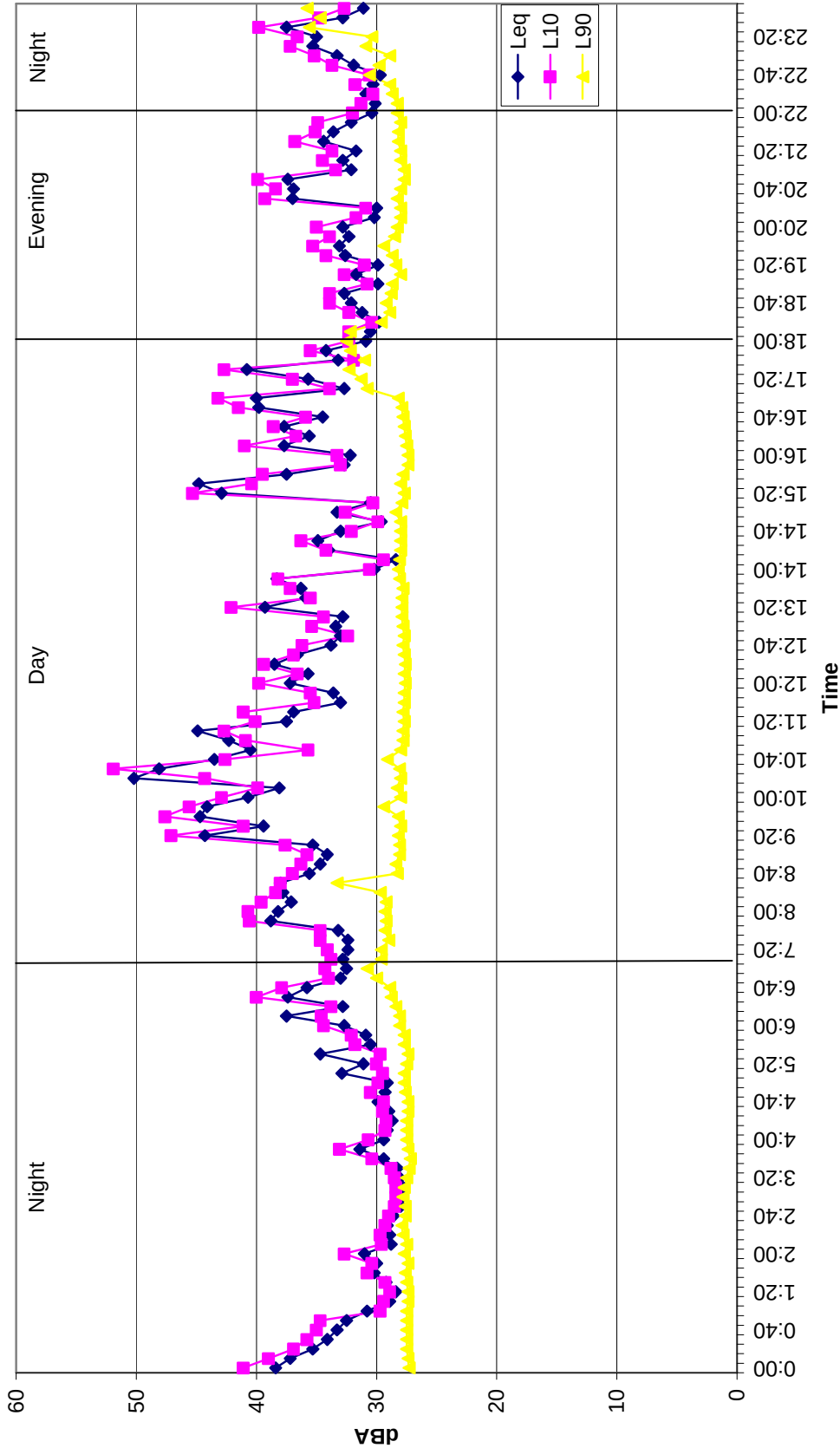




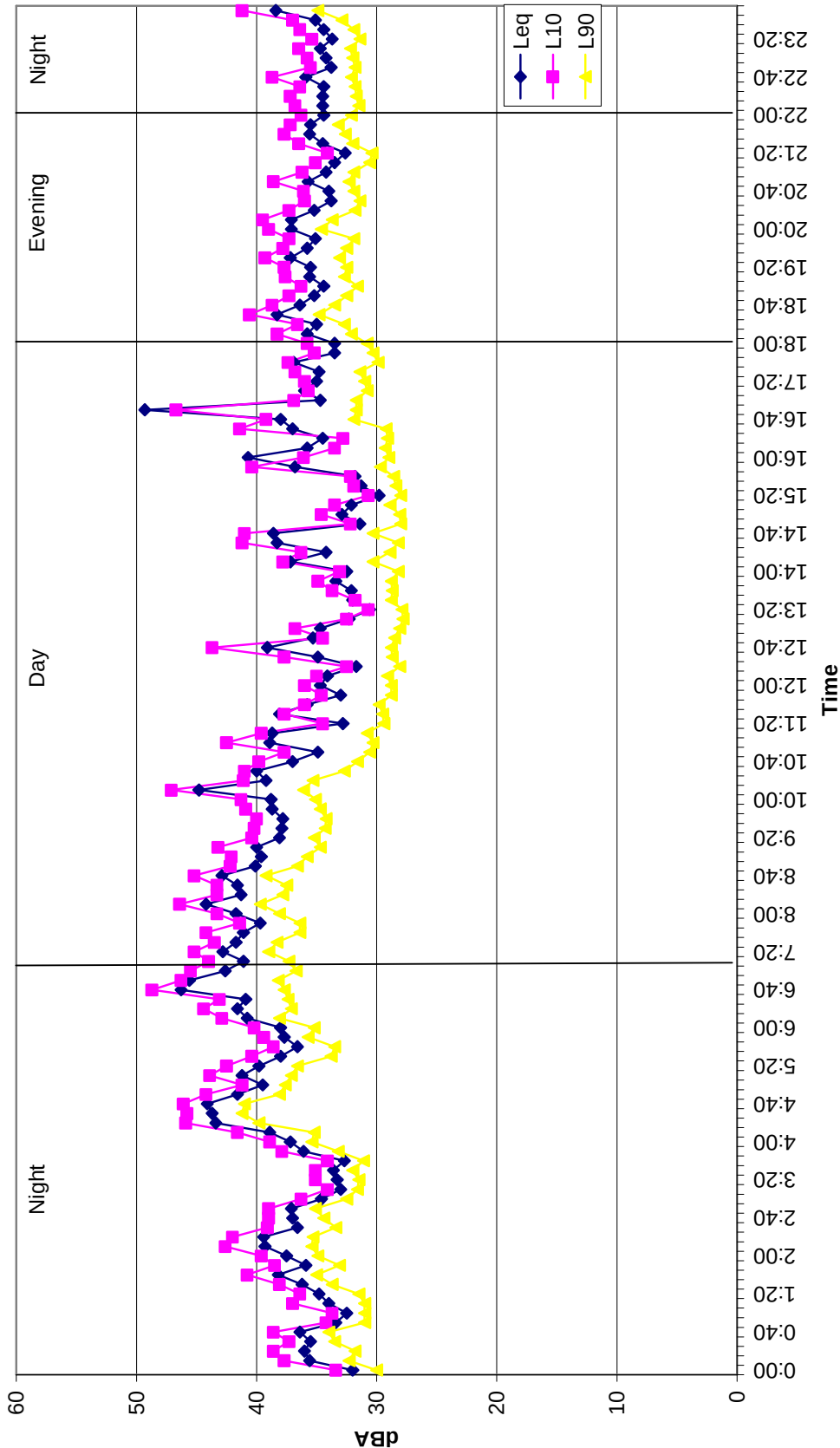
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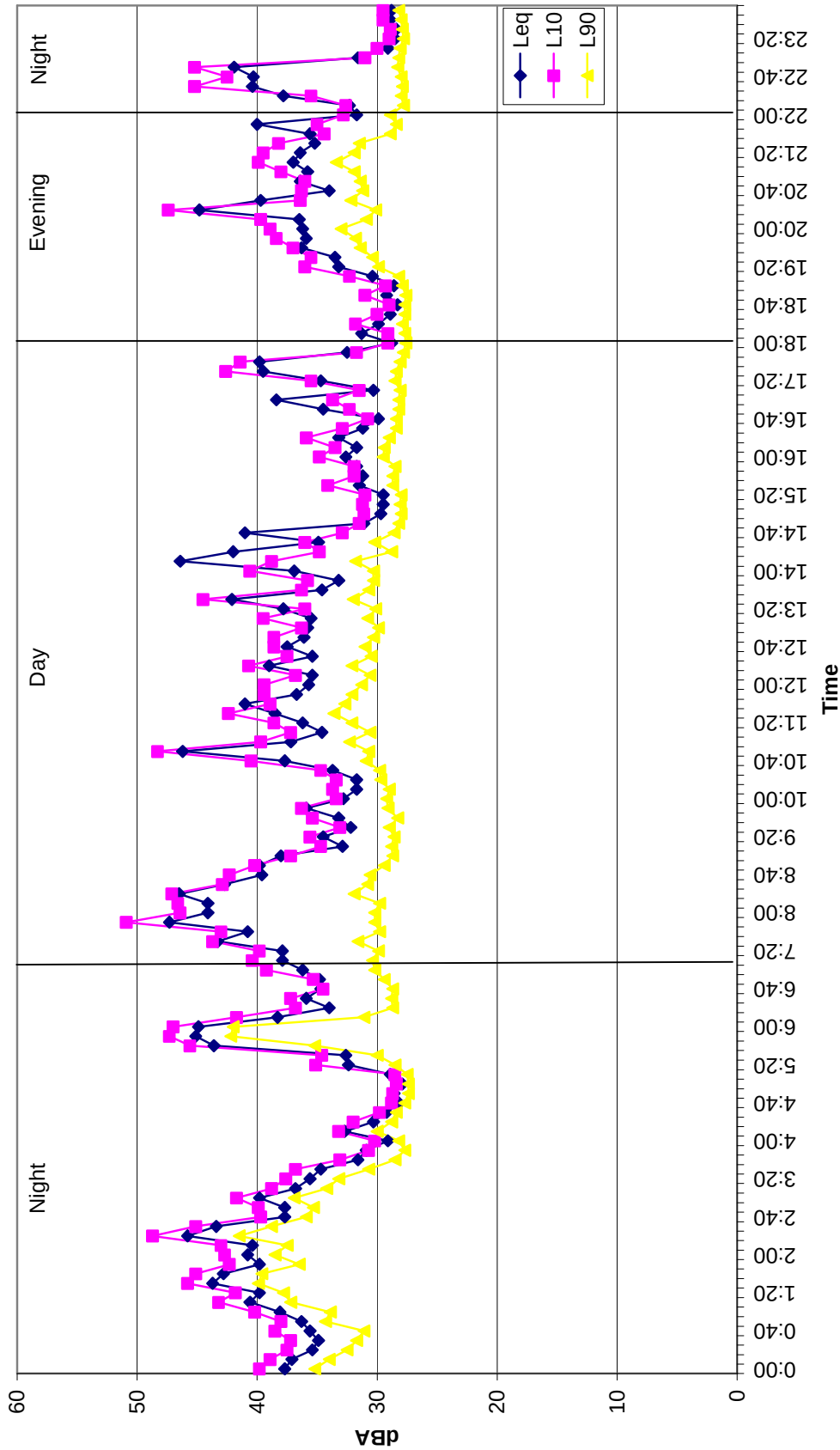
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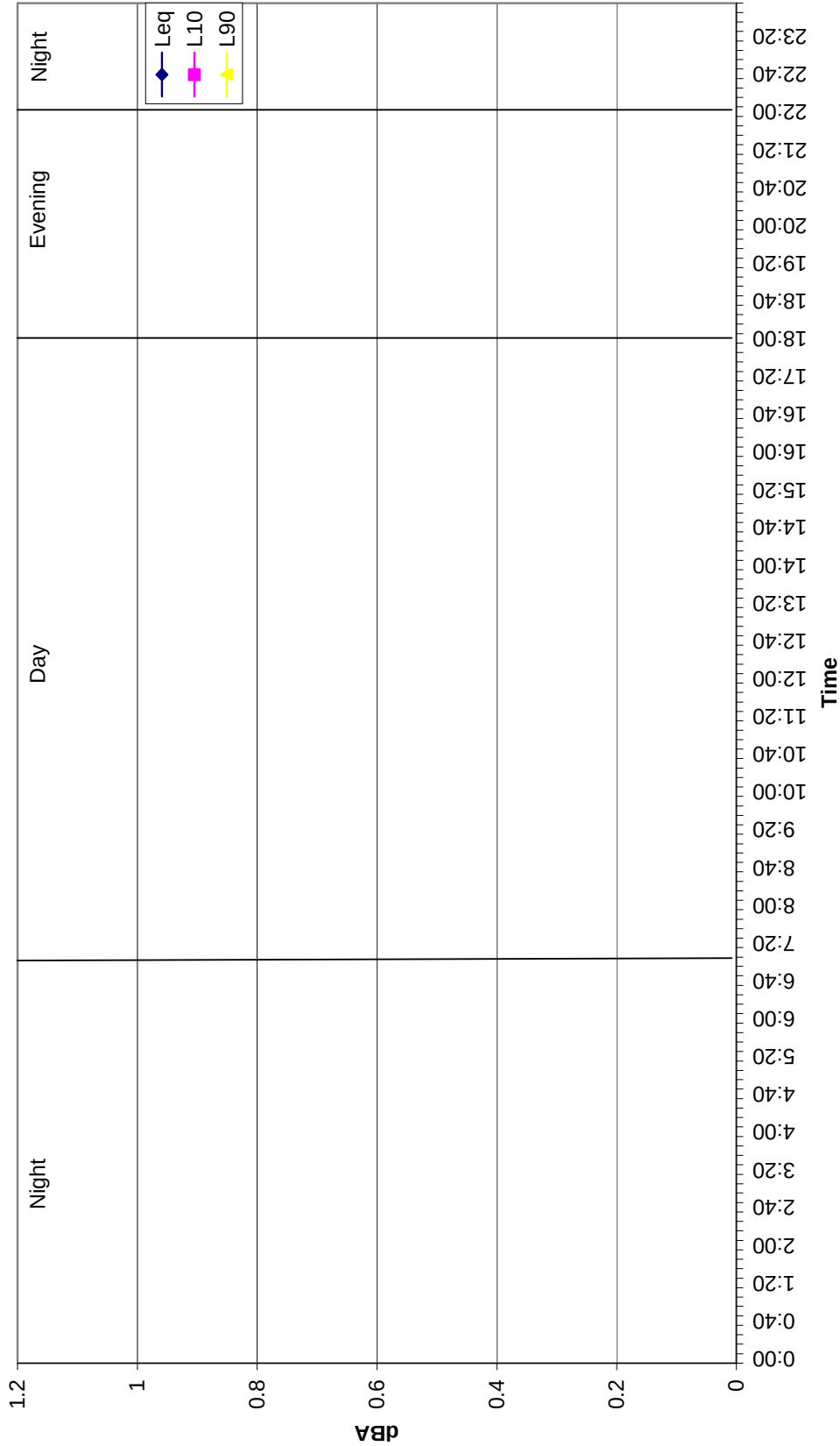
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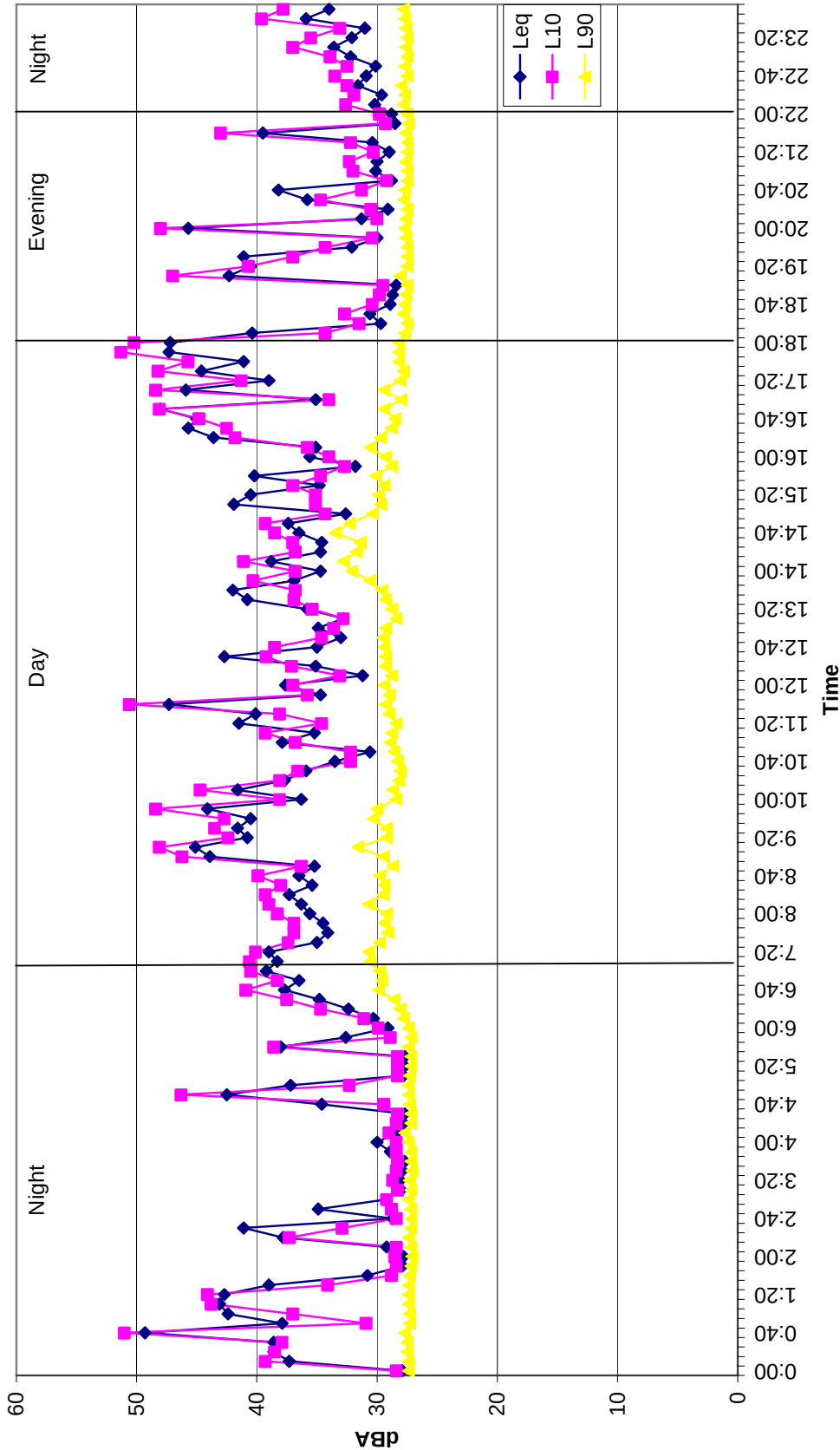
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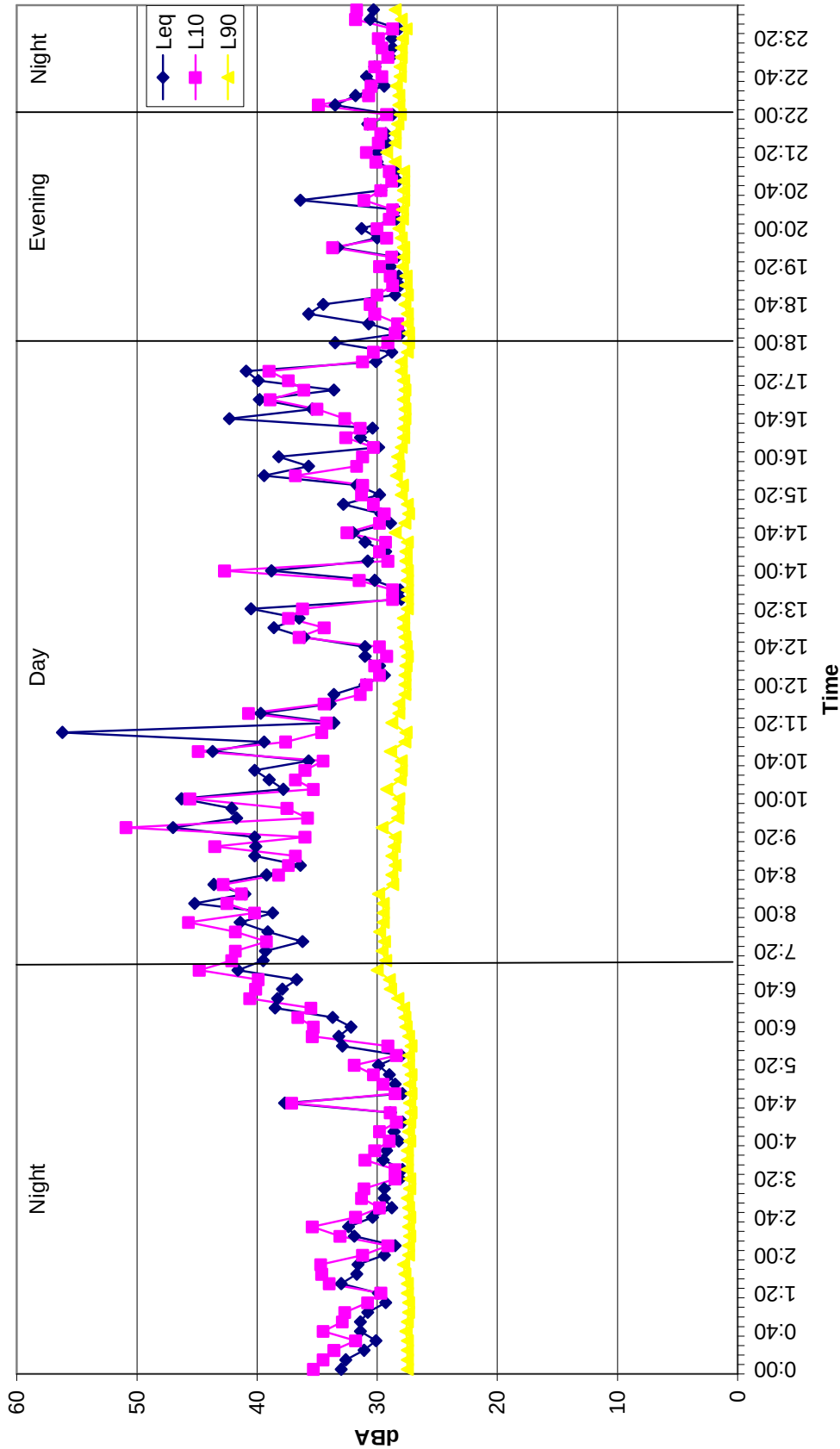
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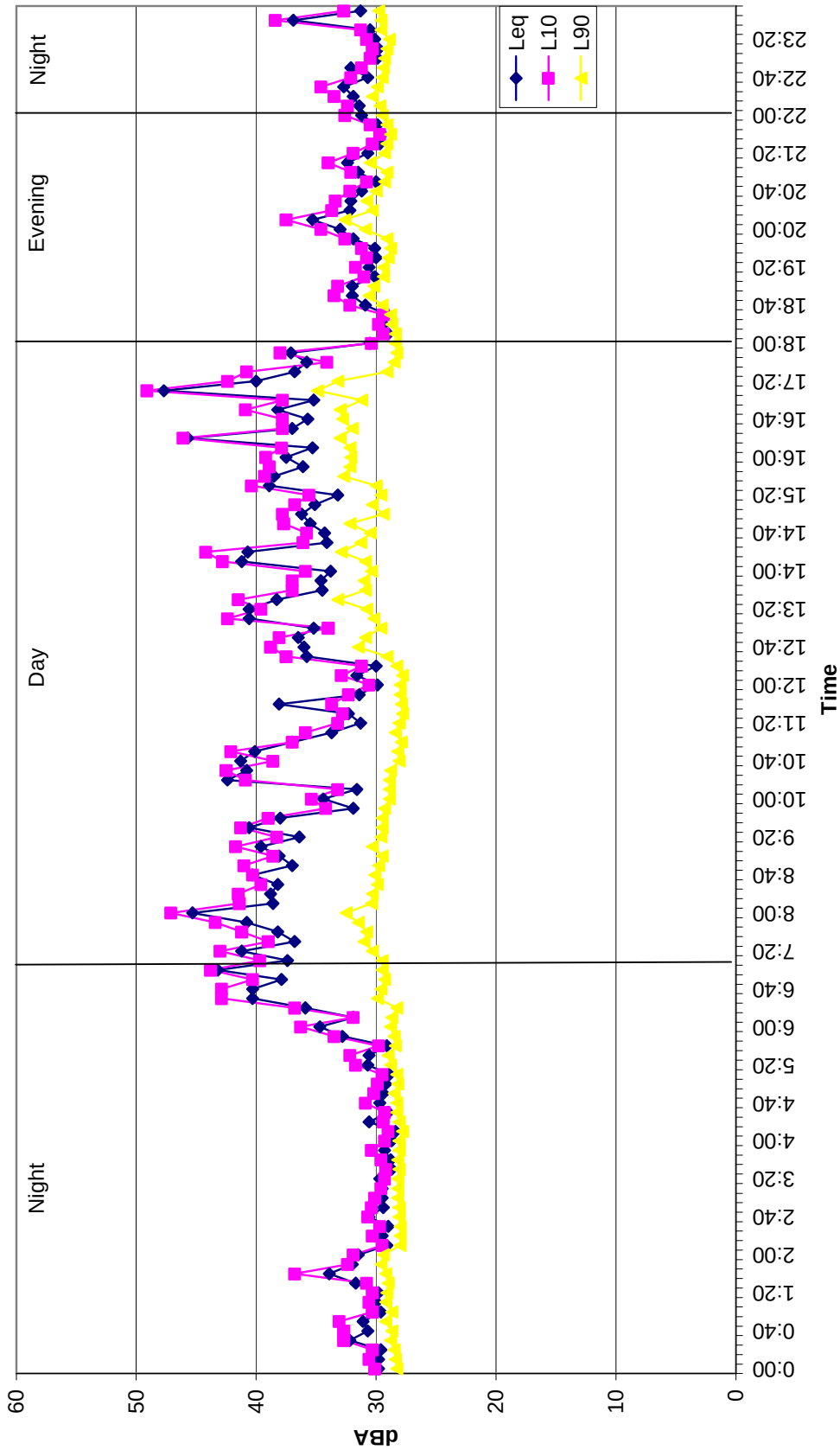
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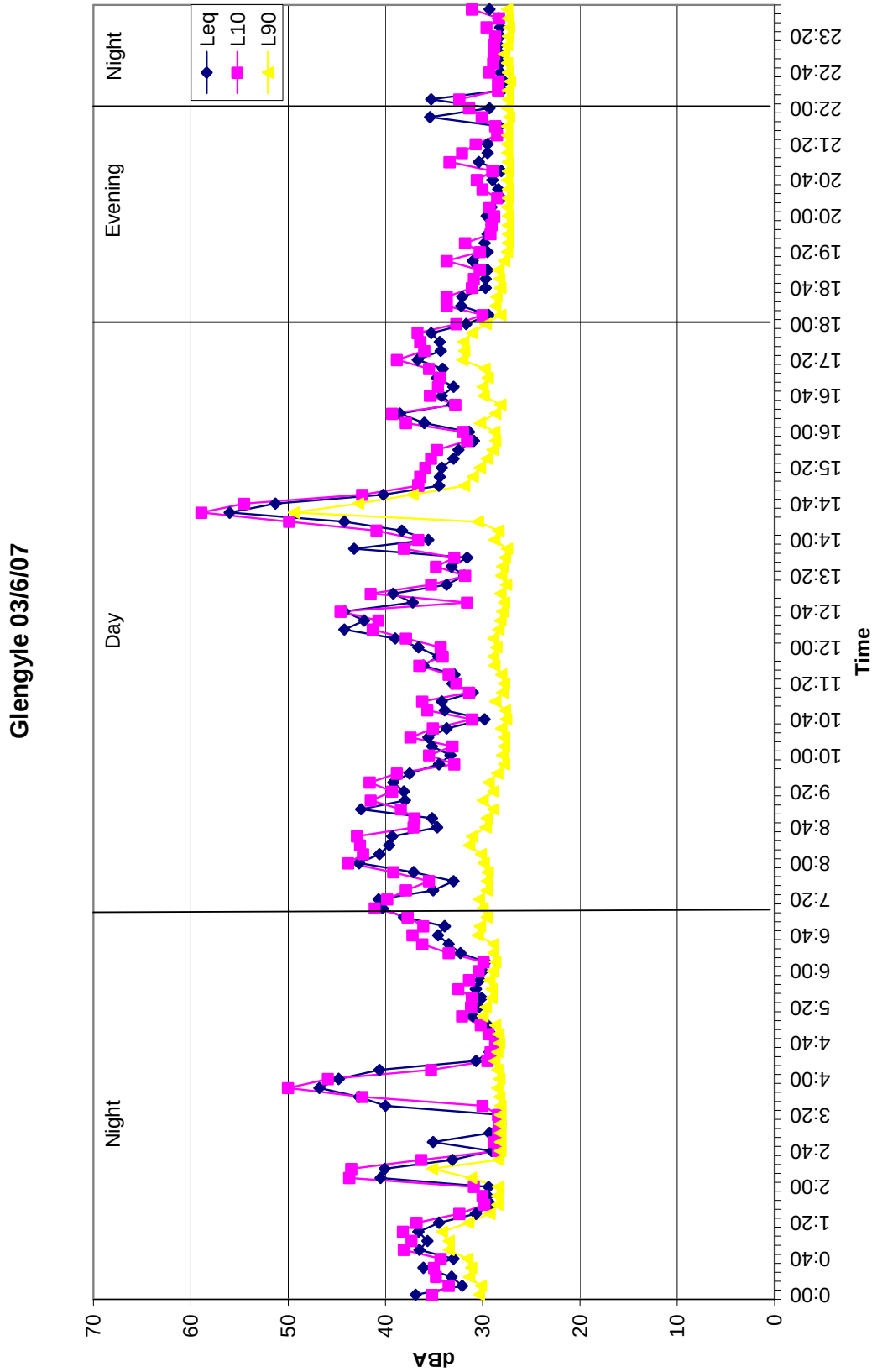


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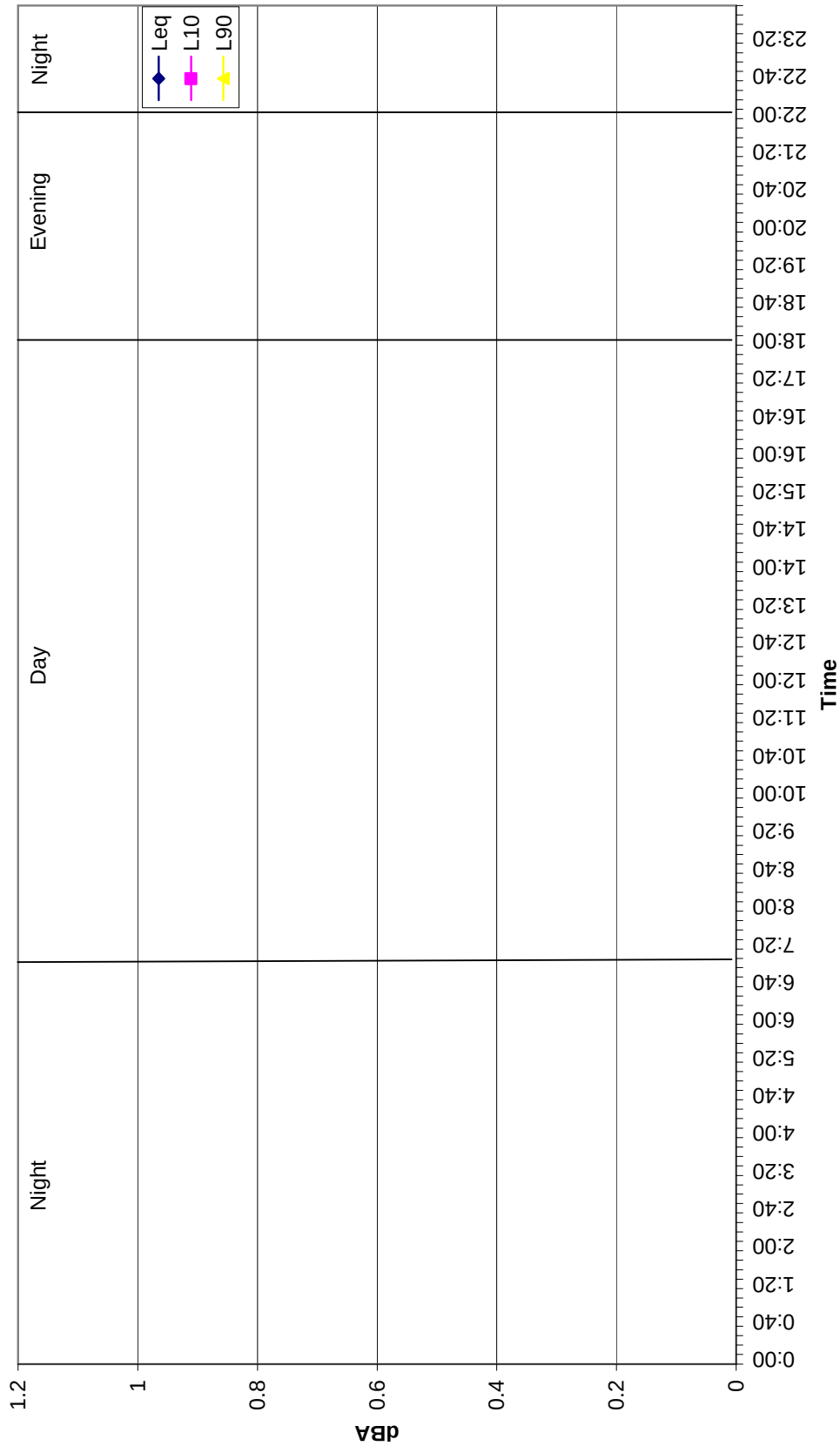


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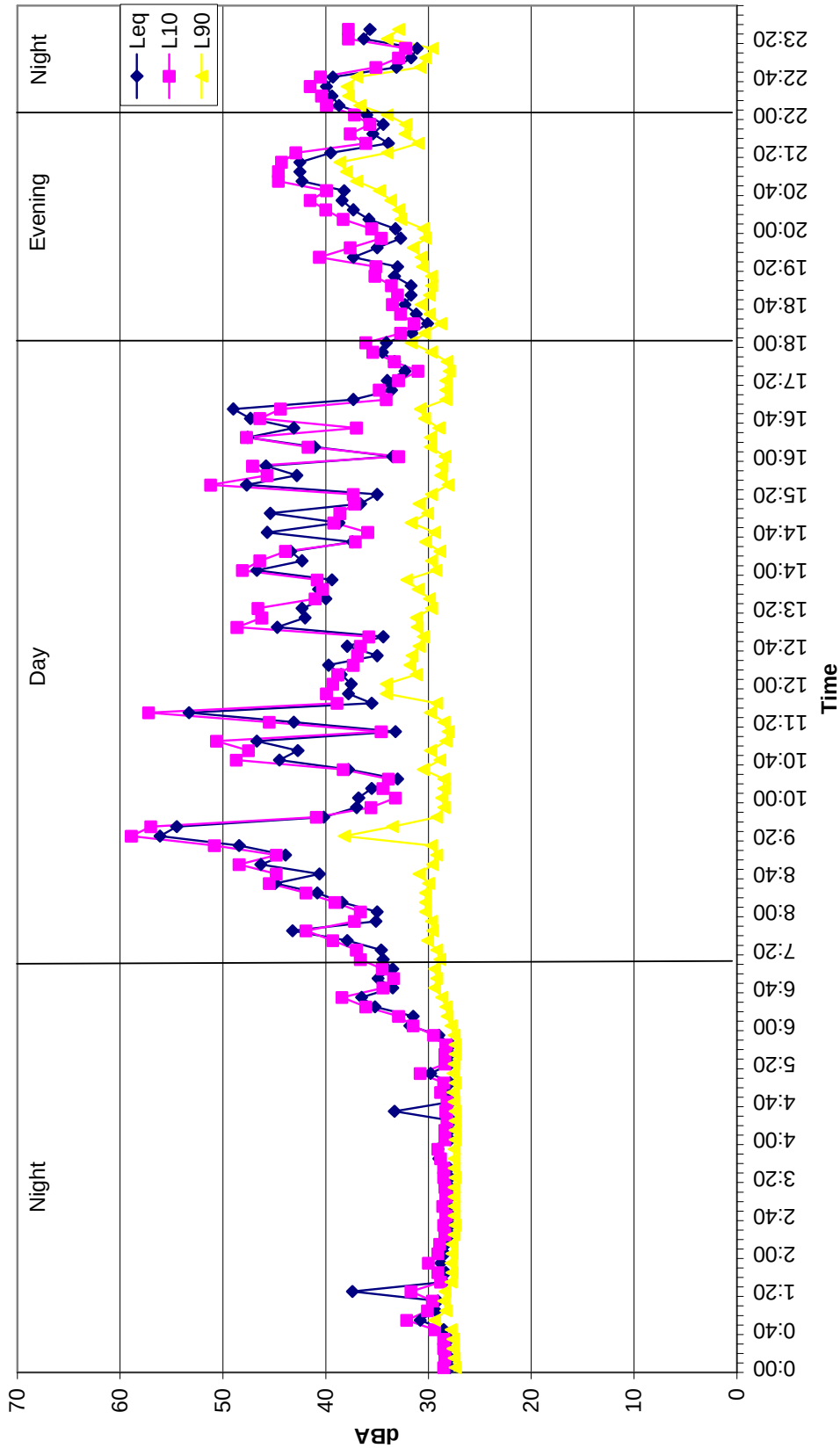




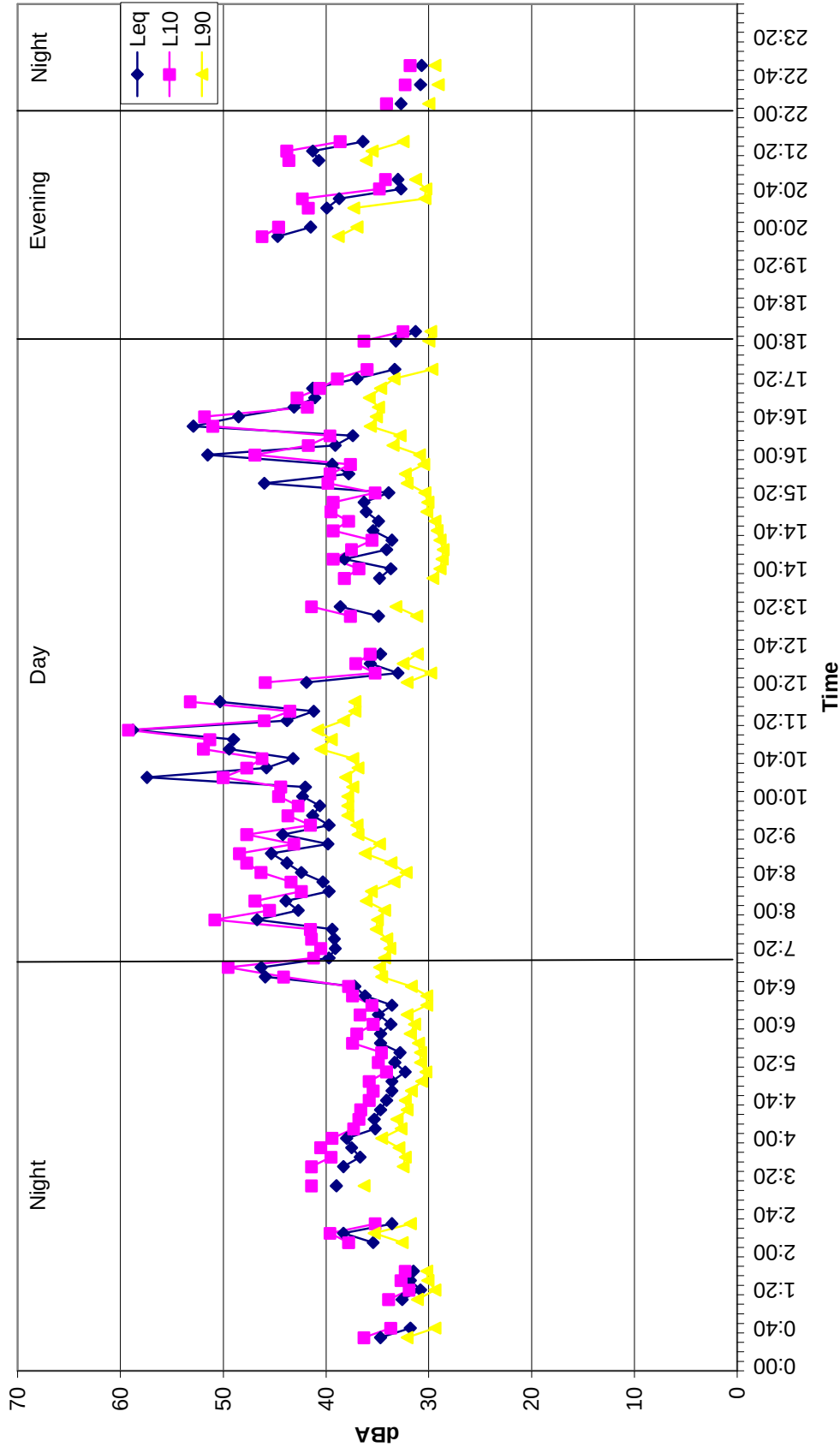
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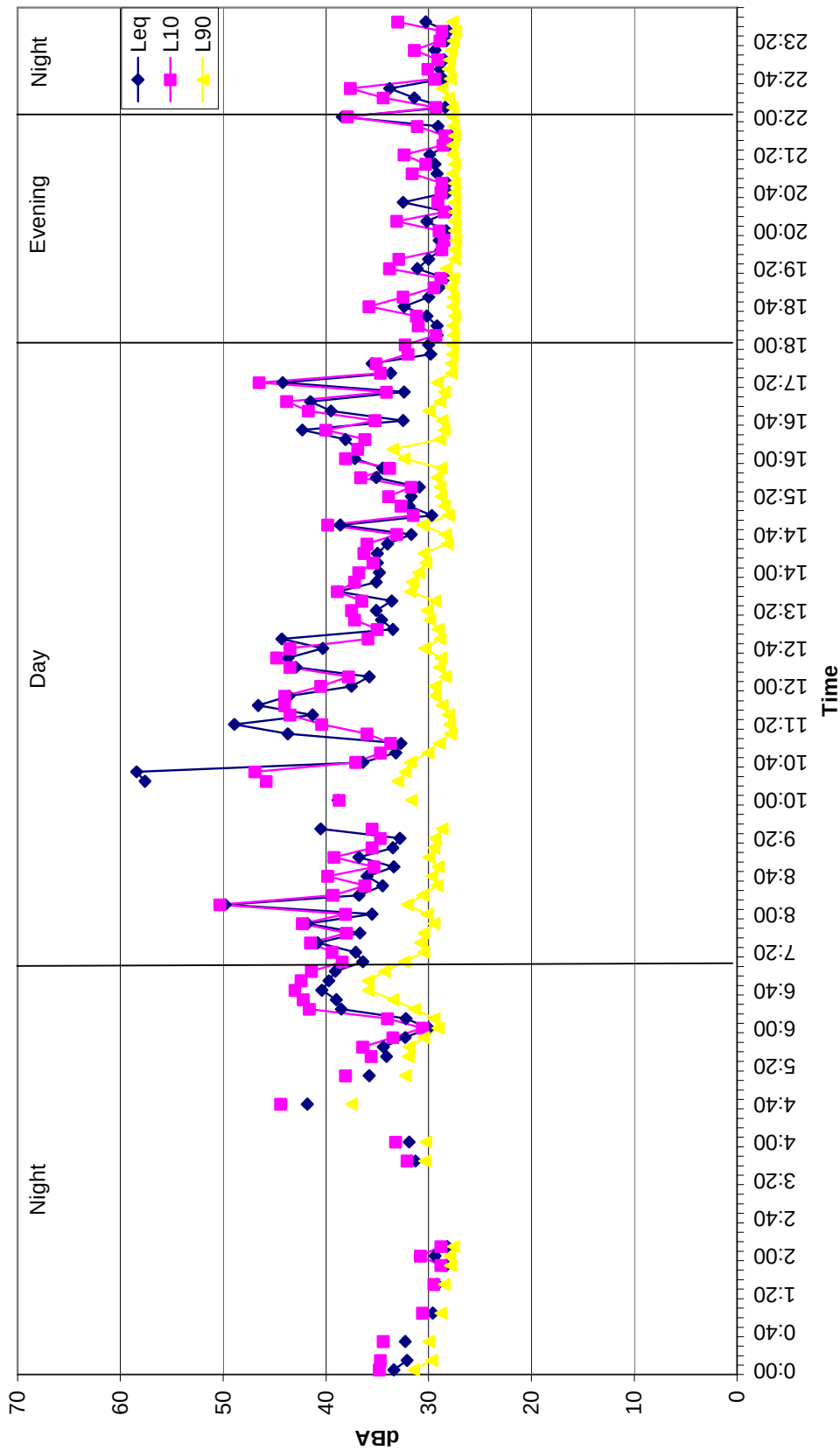
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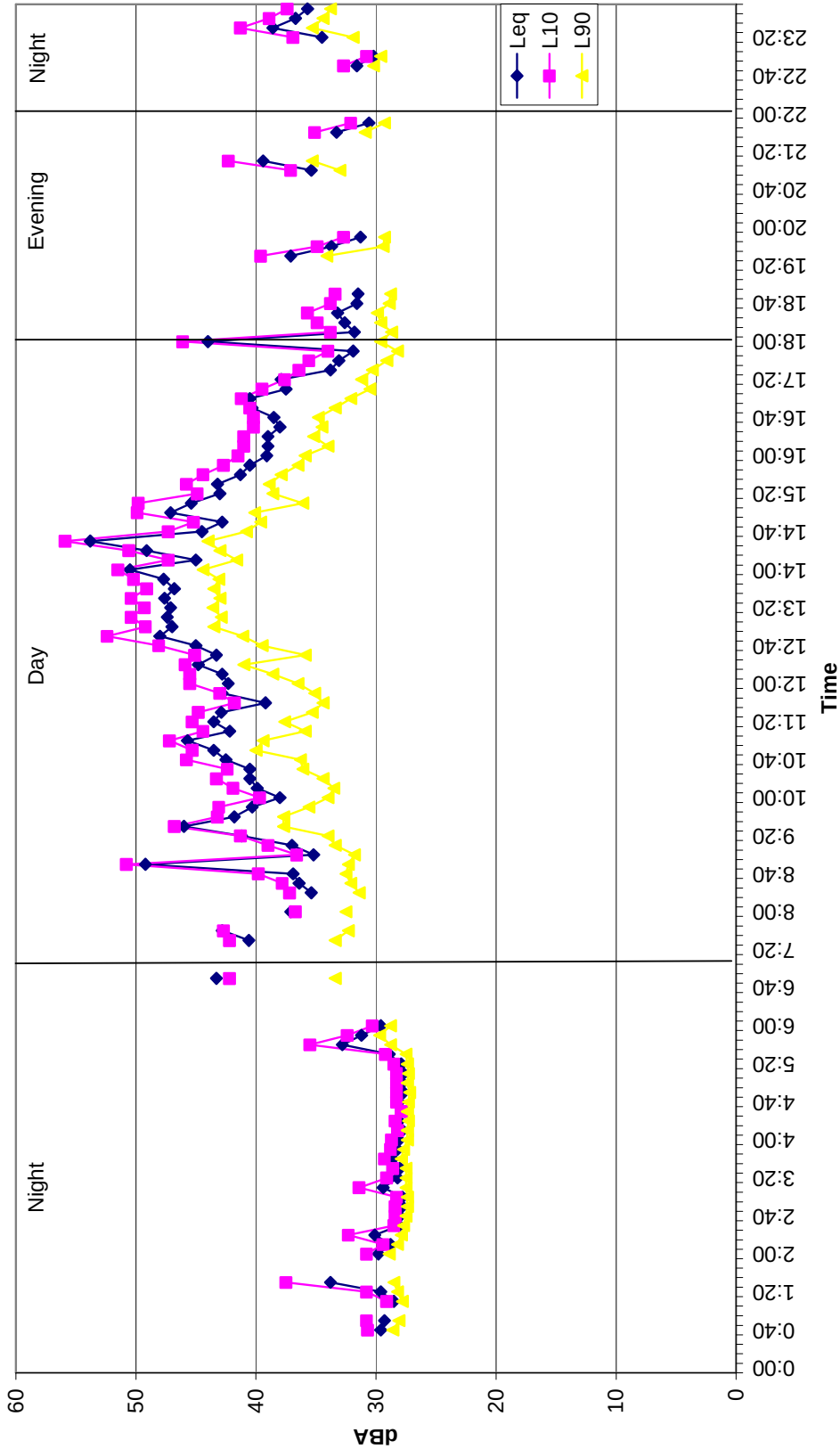
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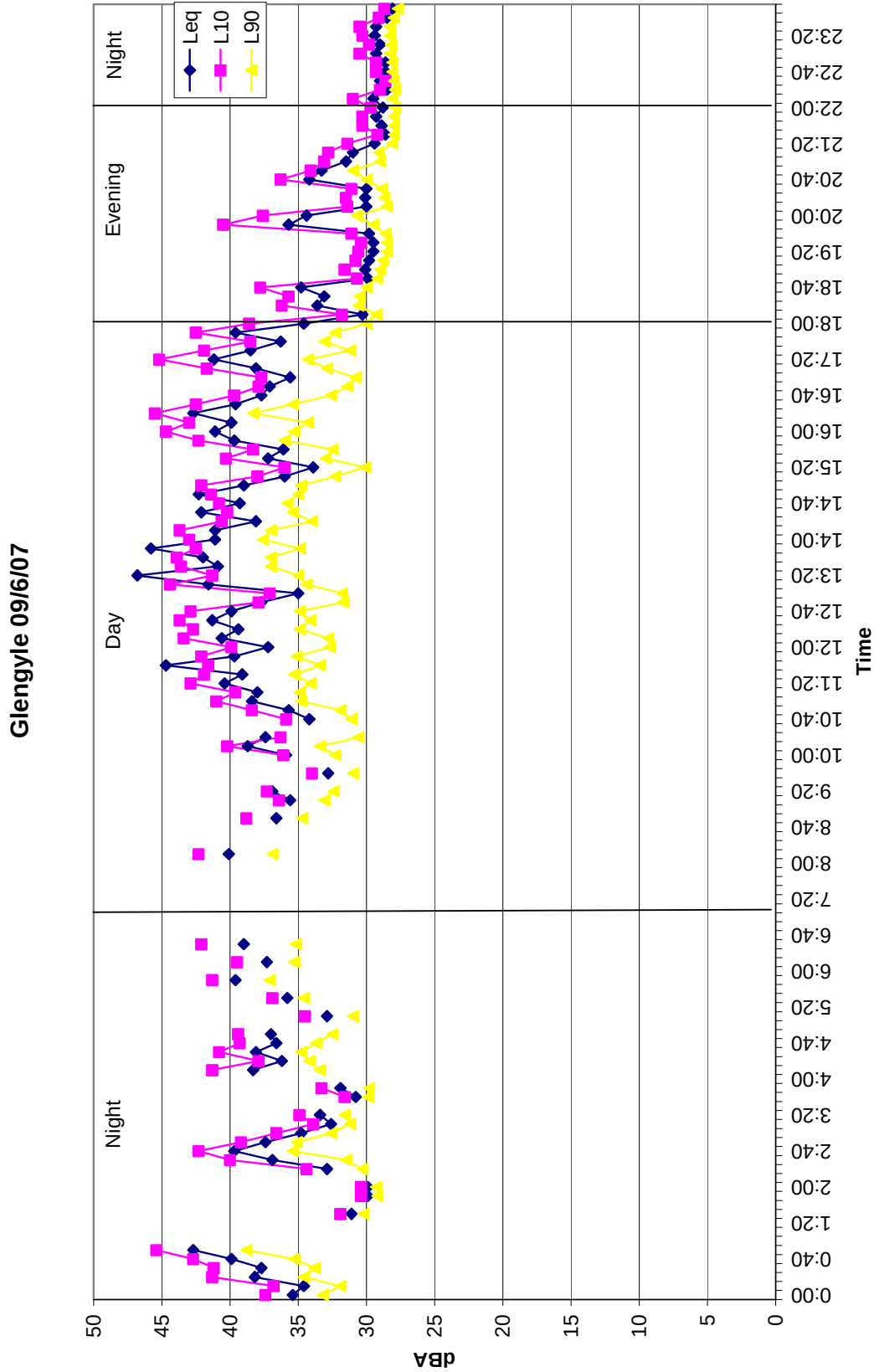


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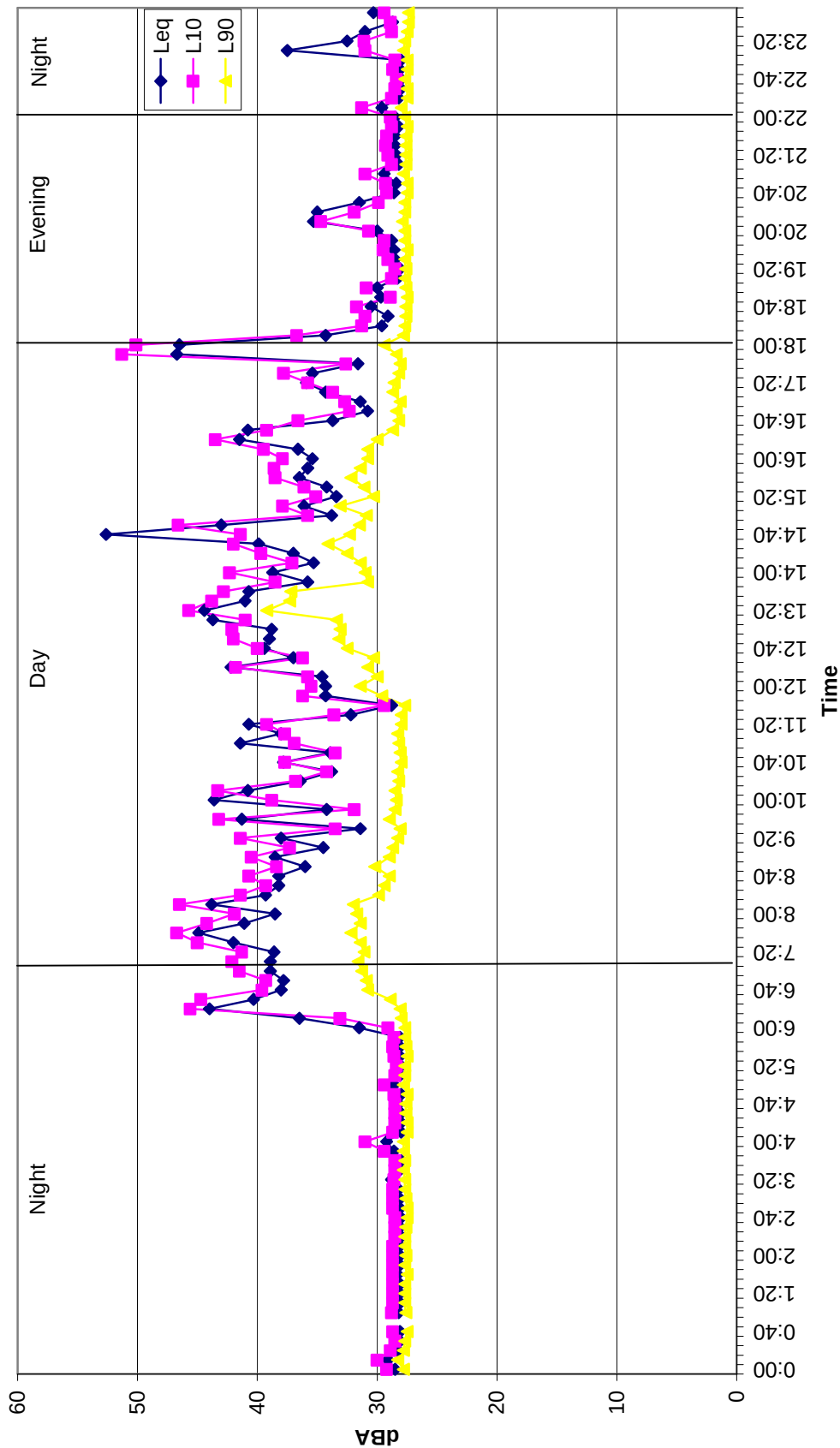


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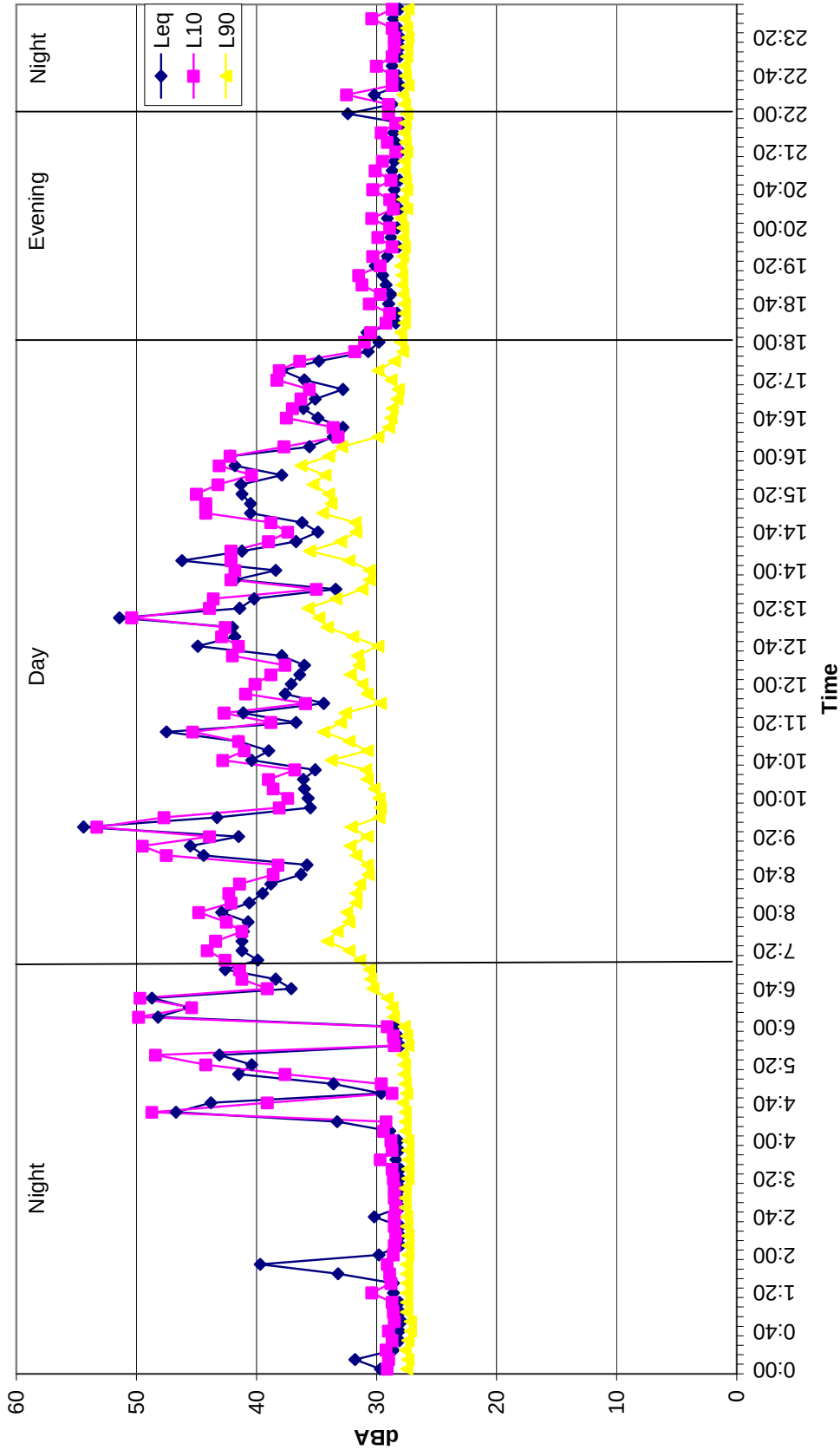




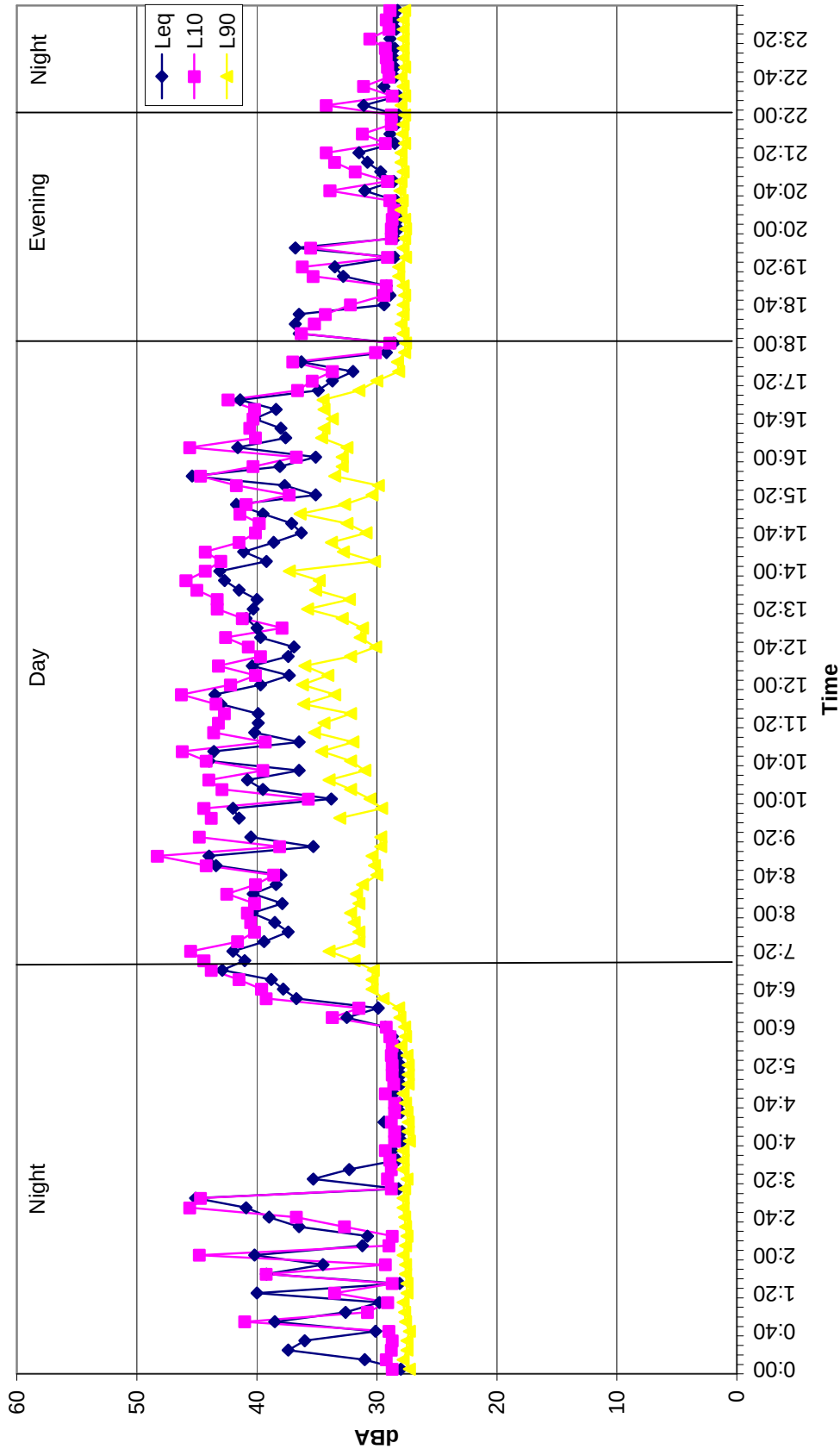
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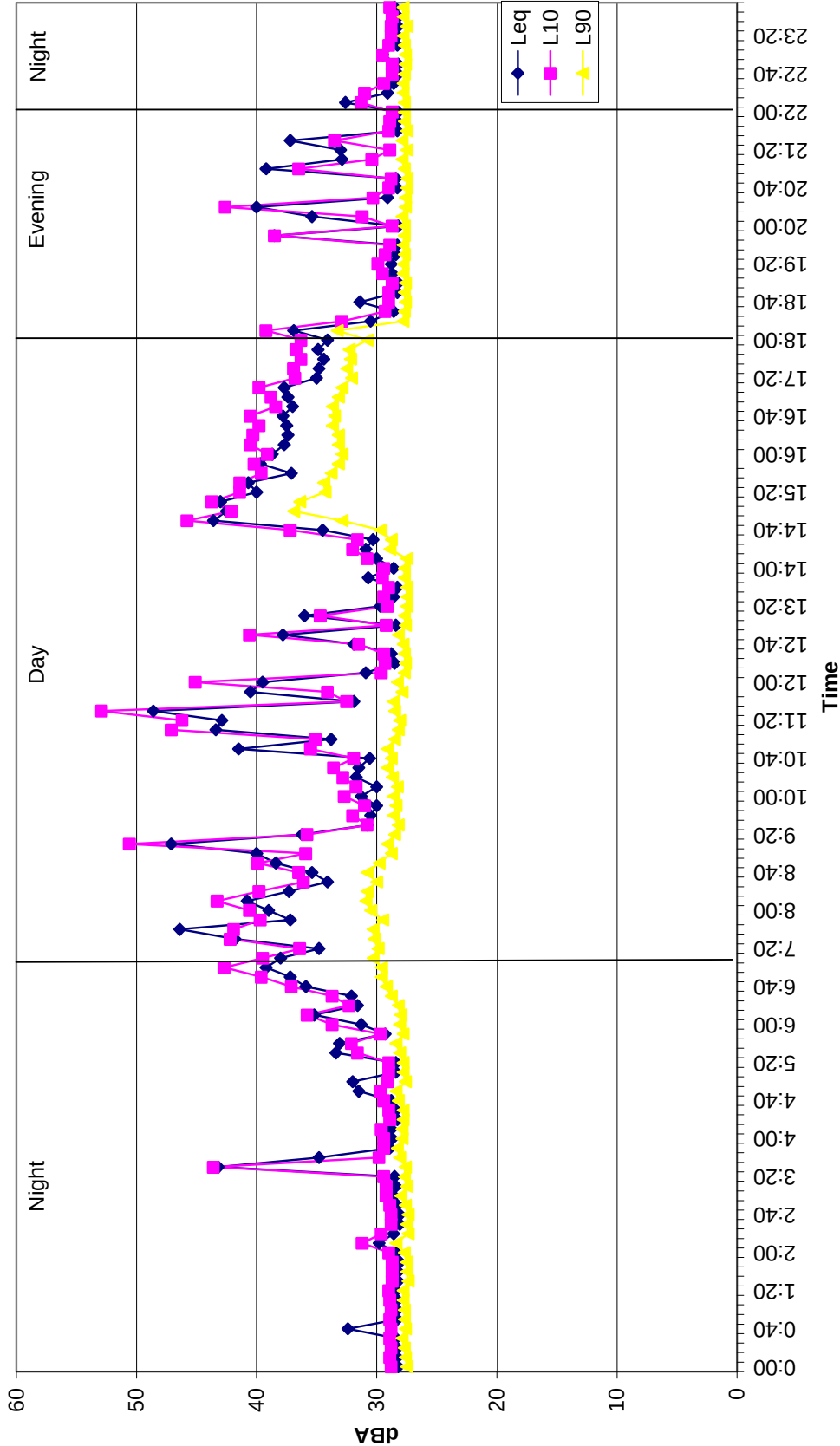
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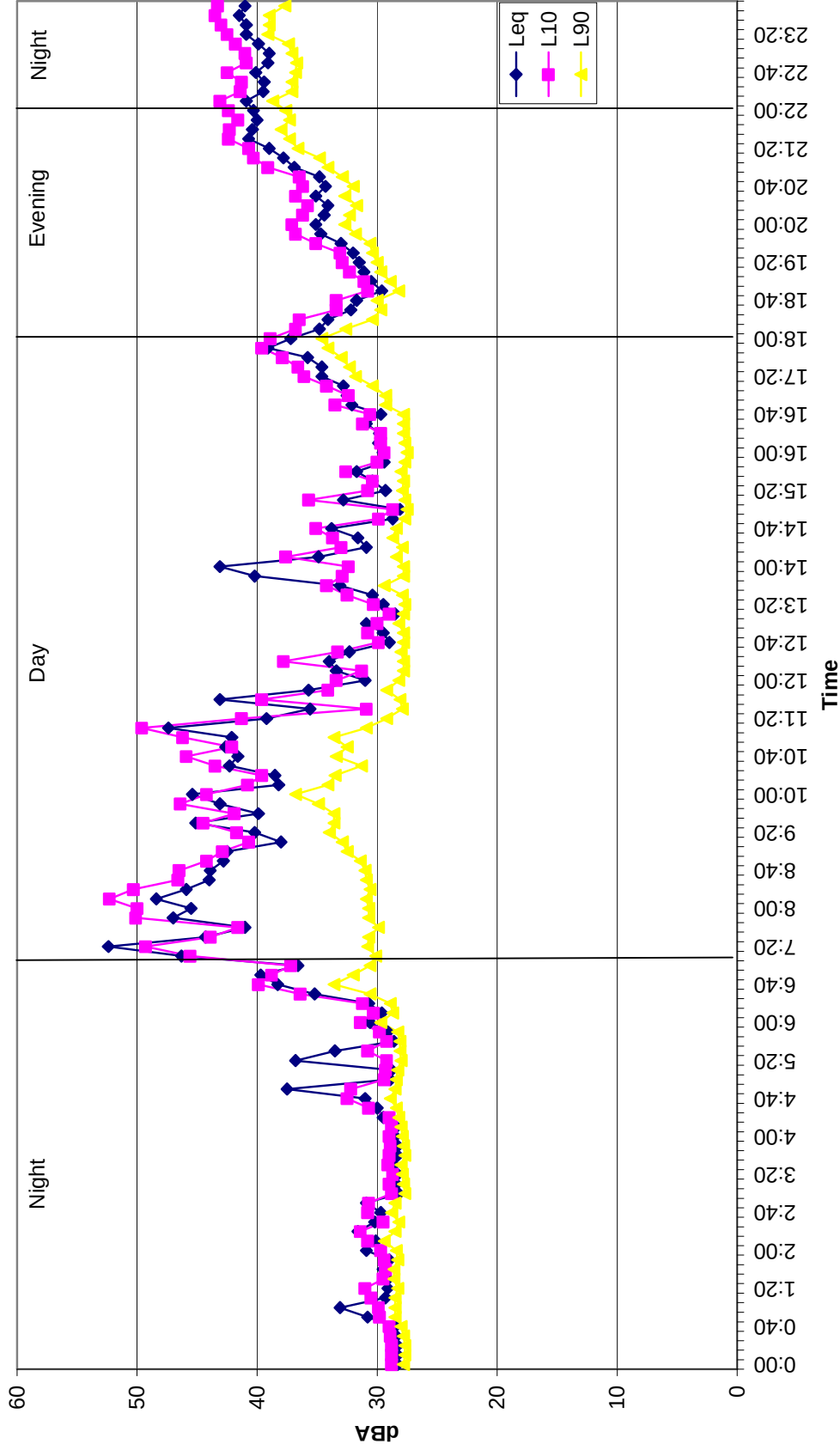
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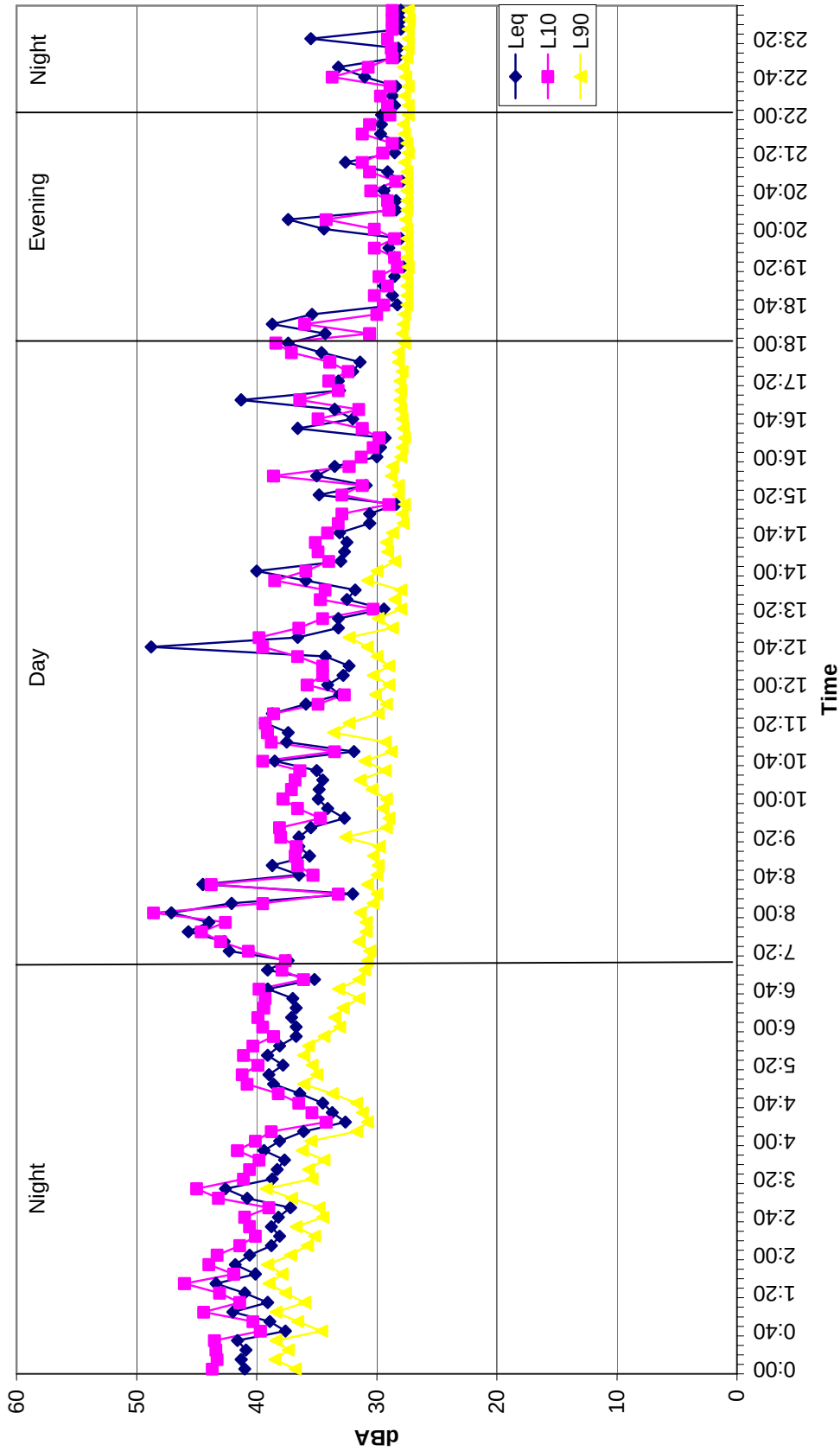
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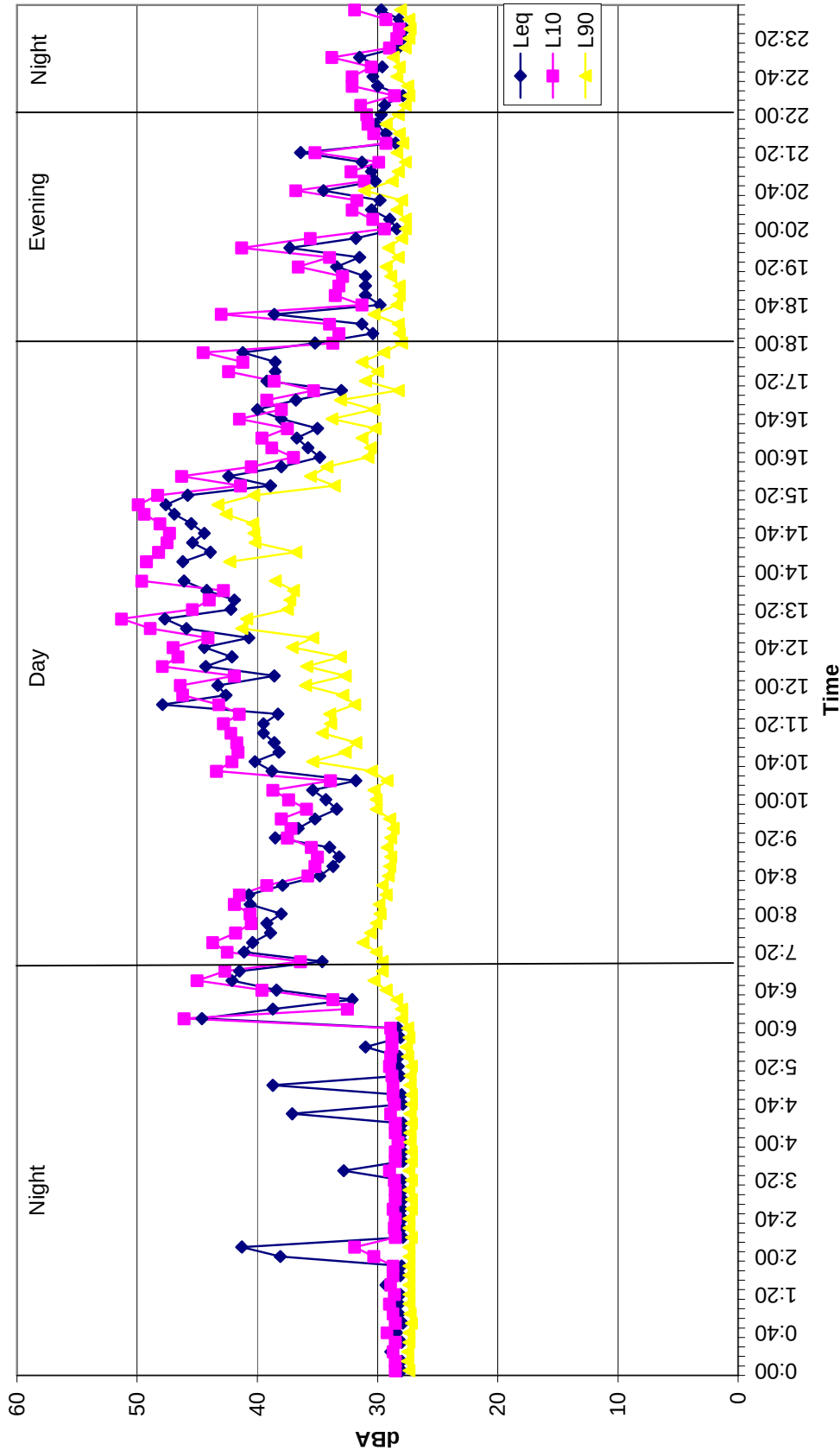
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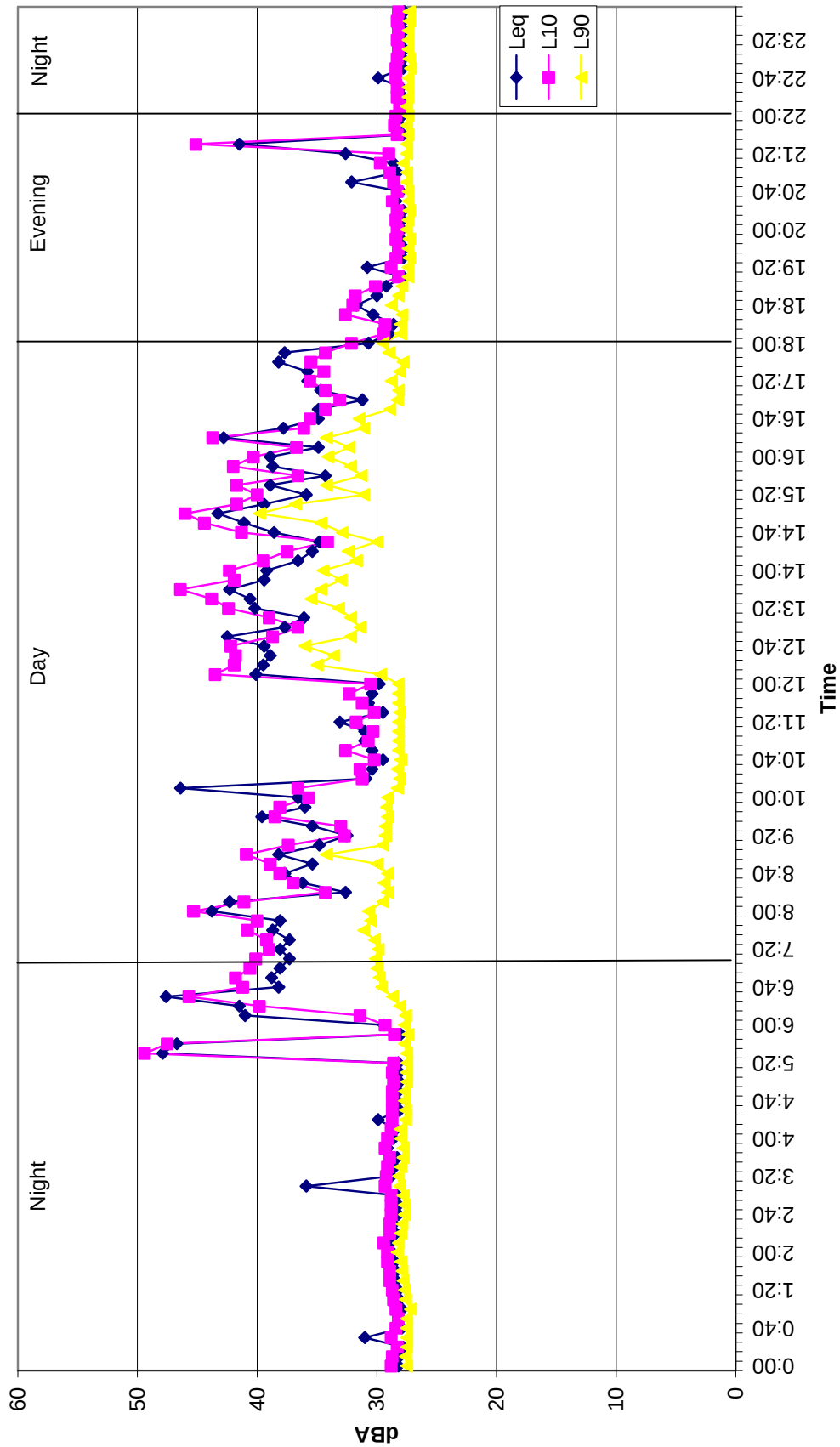
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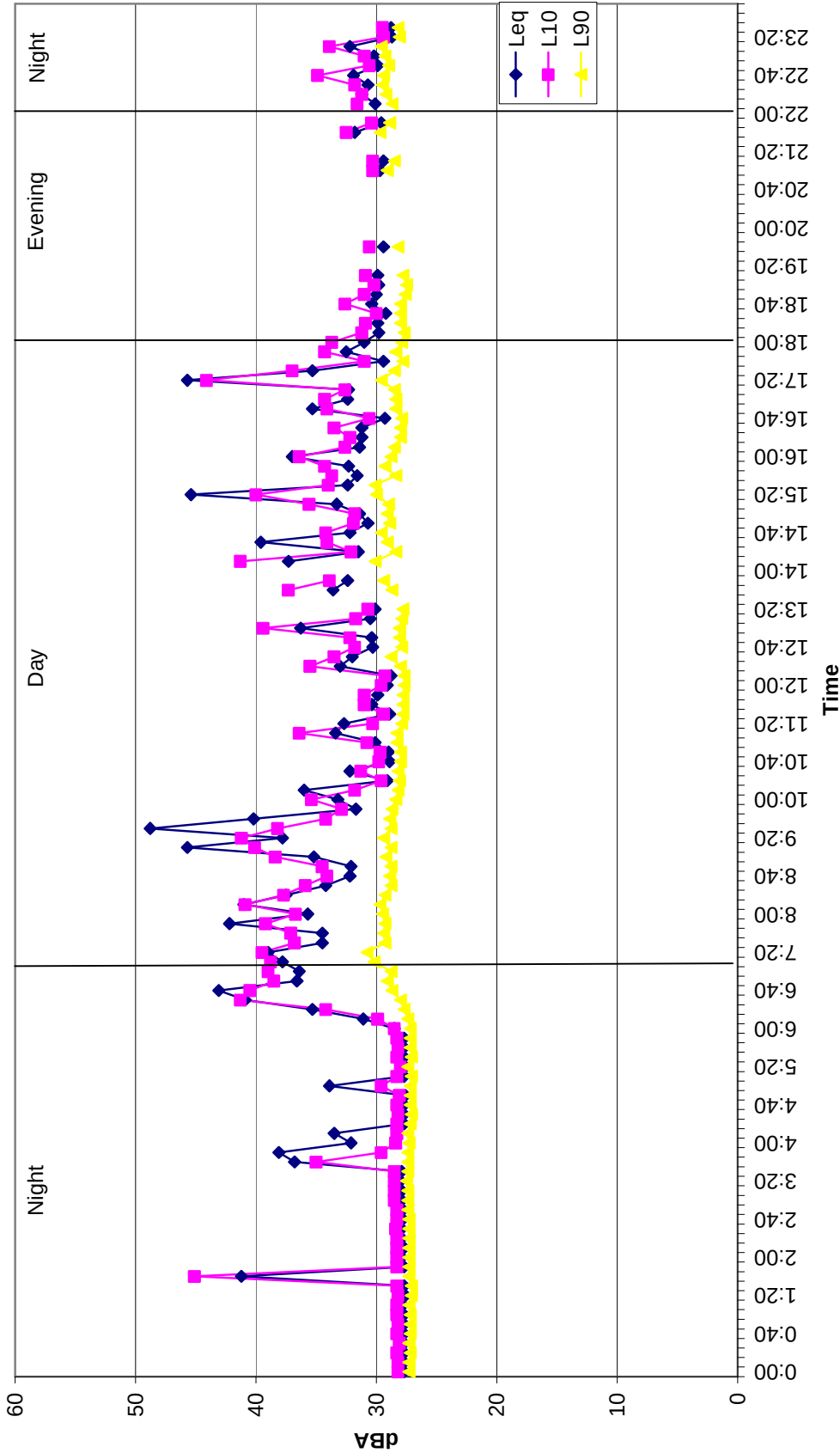
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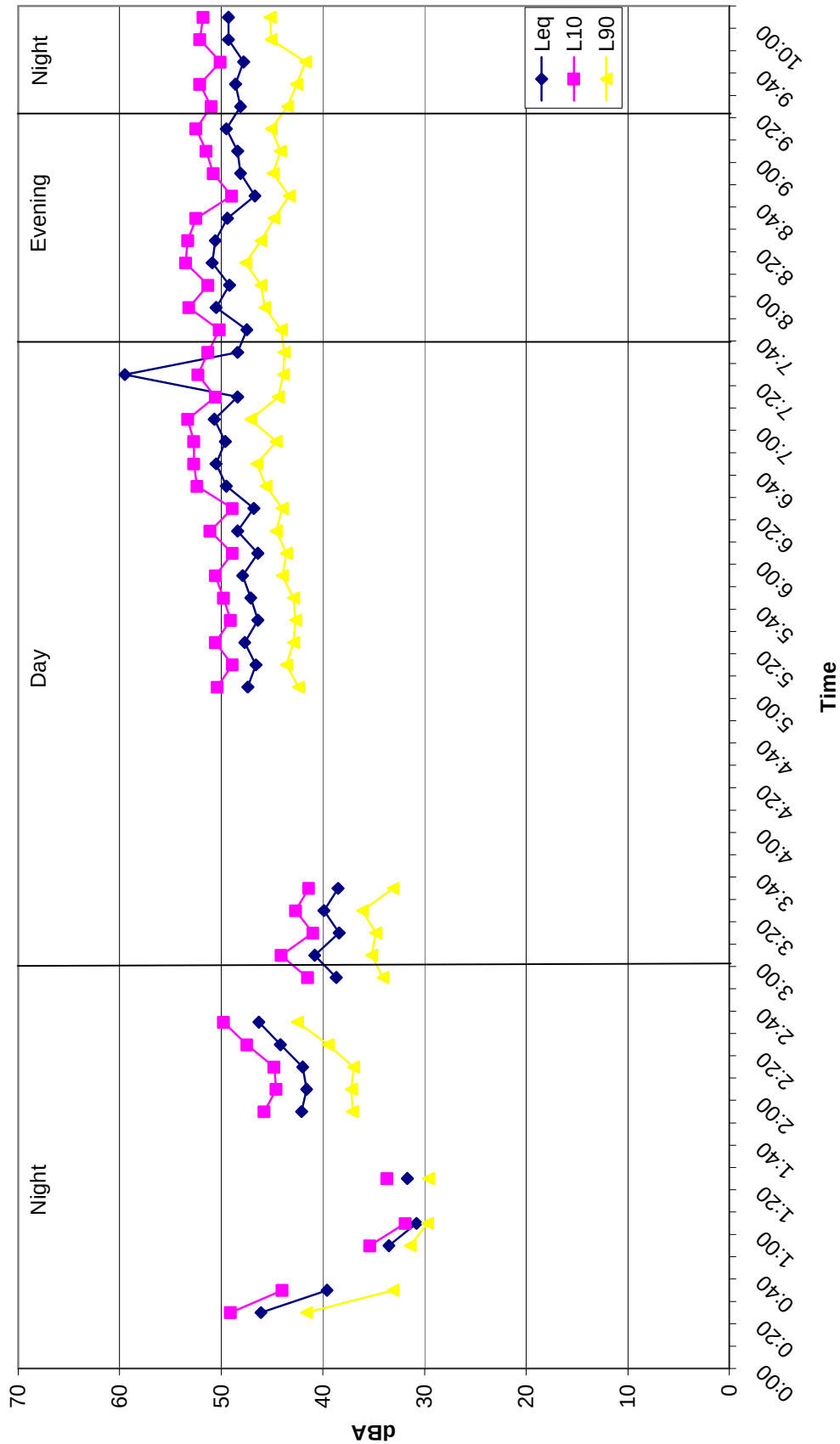
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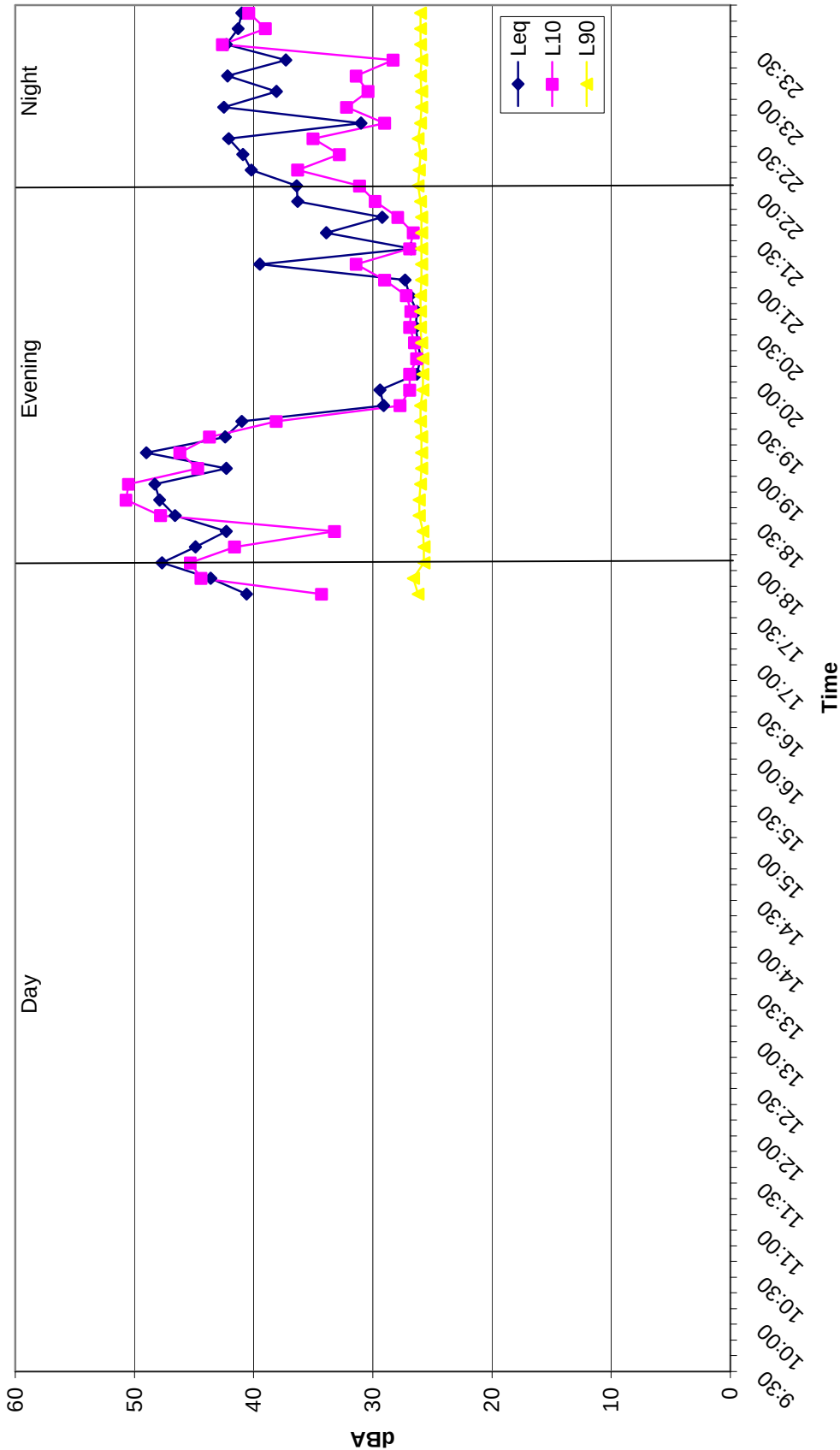
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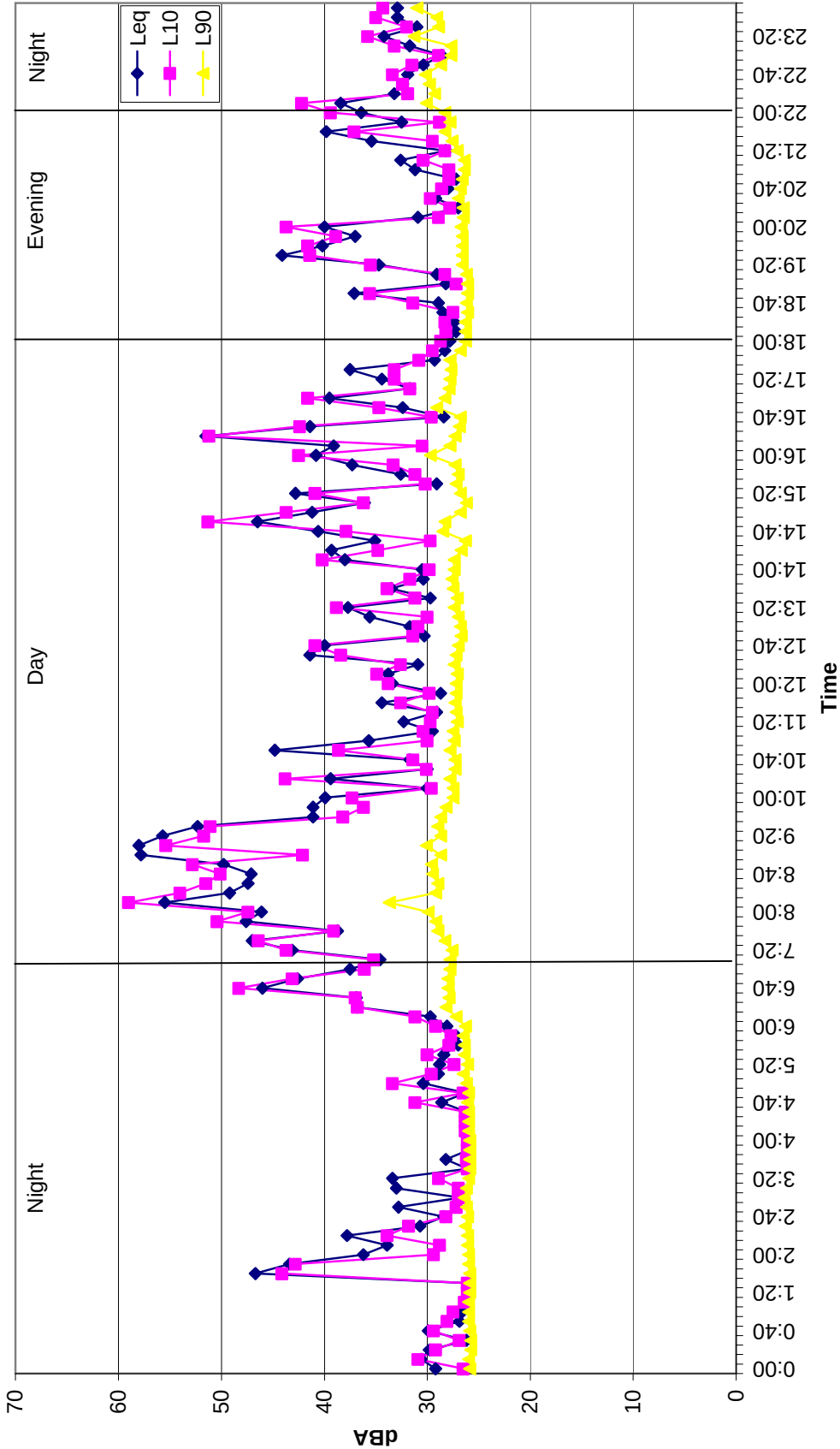
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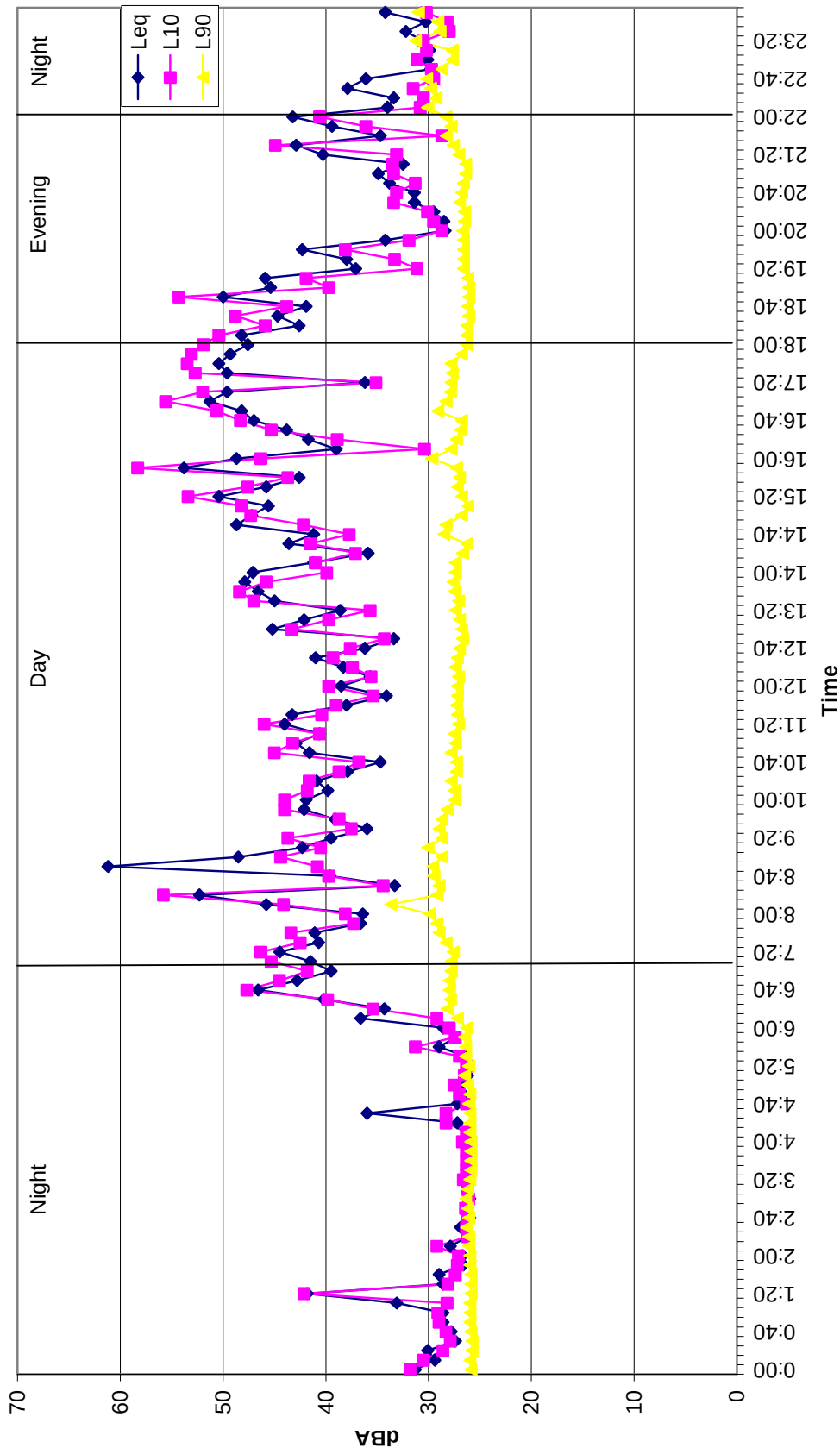
Rose Hill 25/5/07



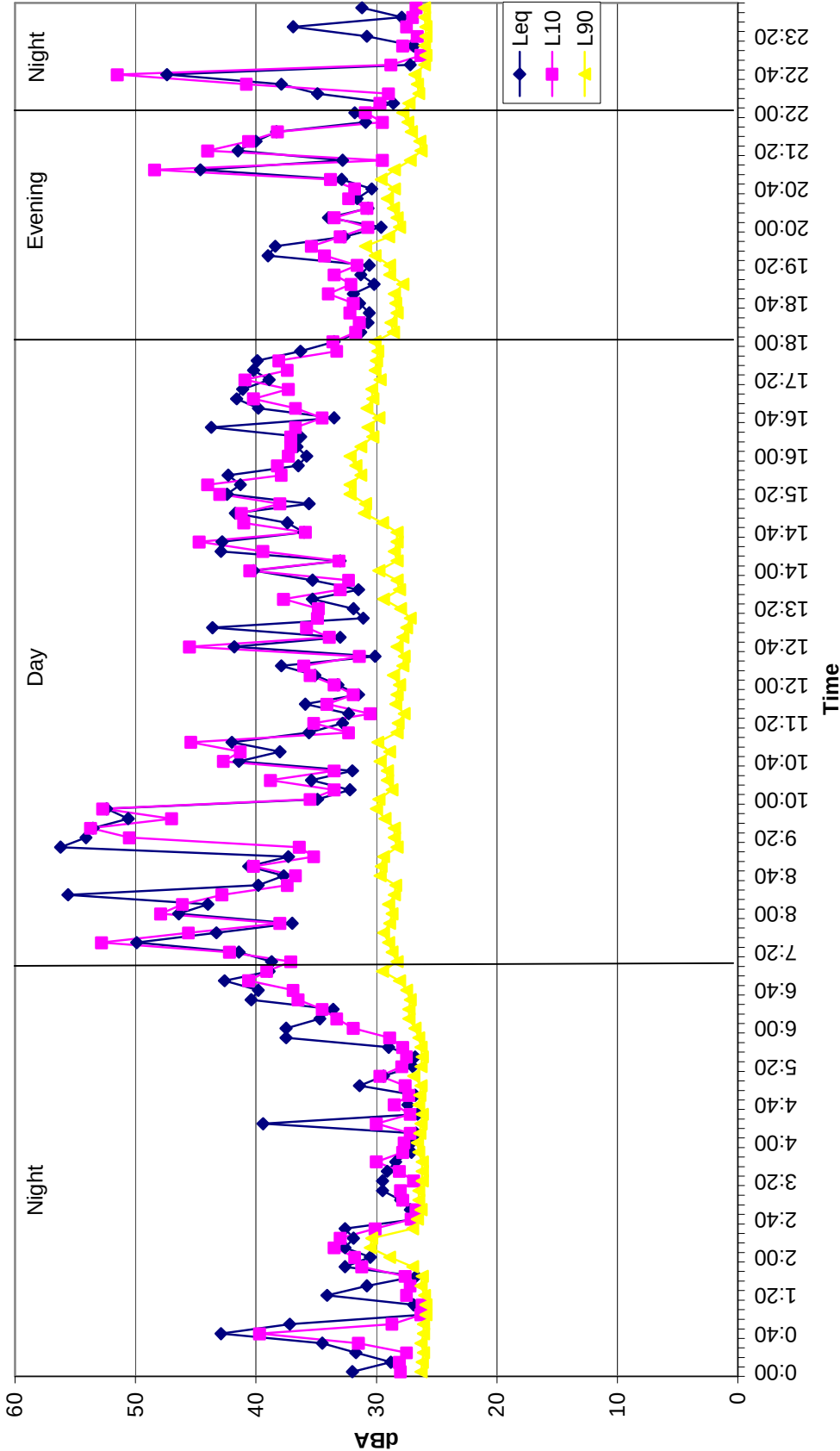
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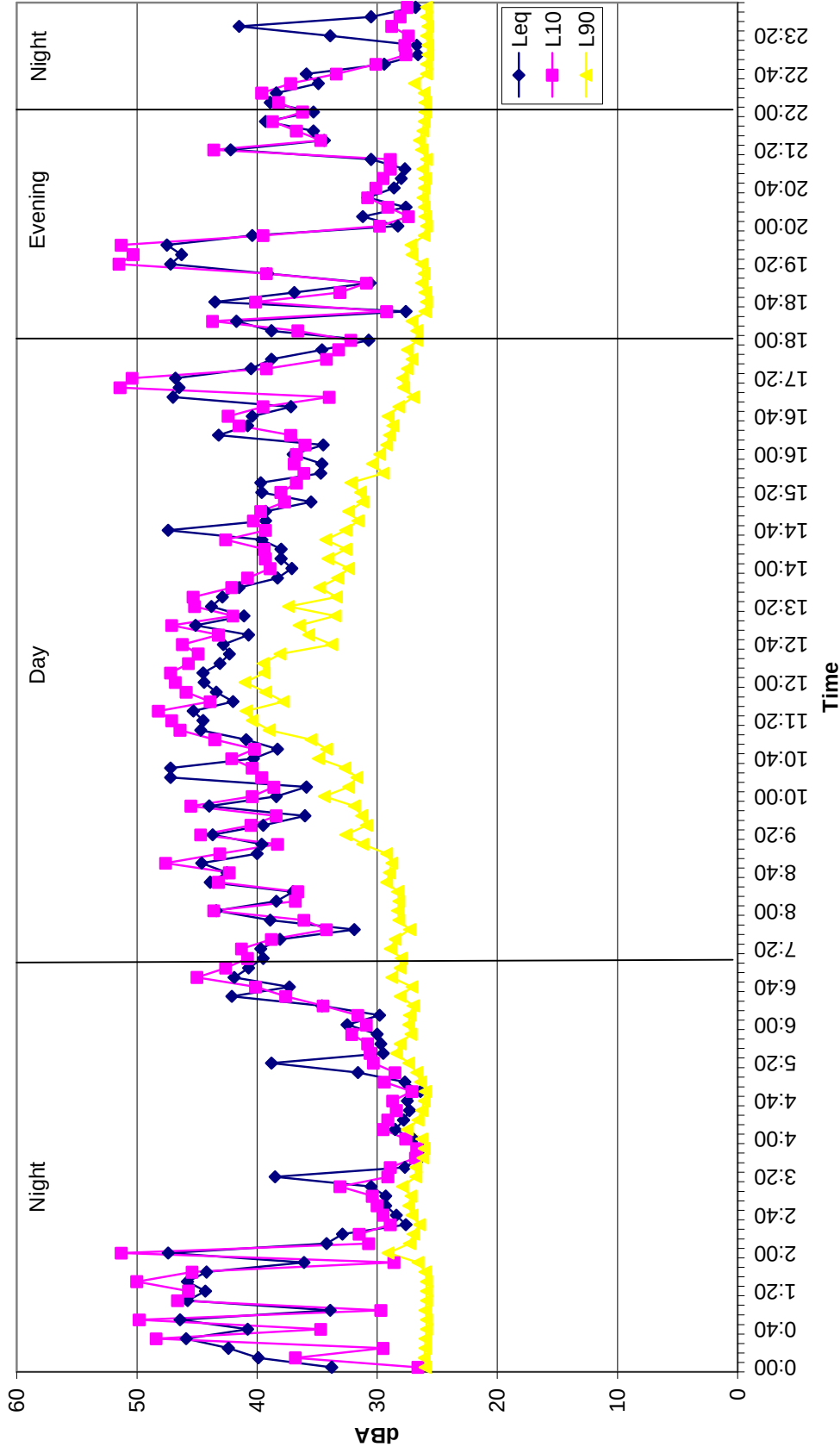
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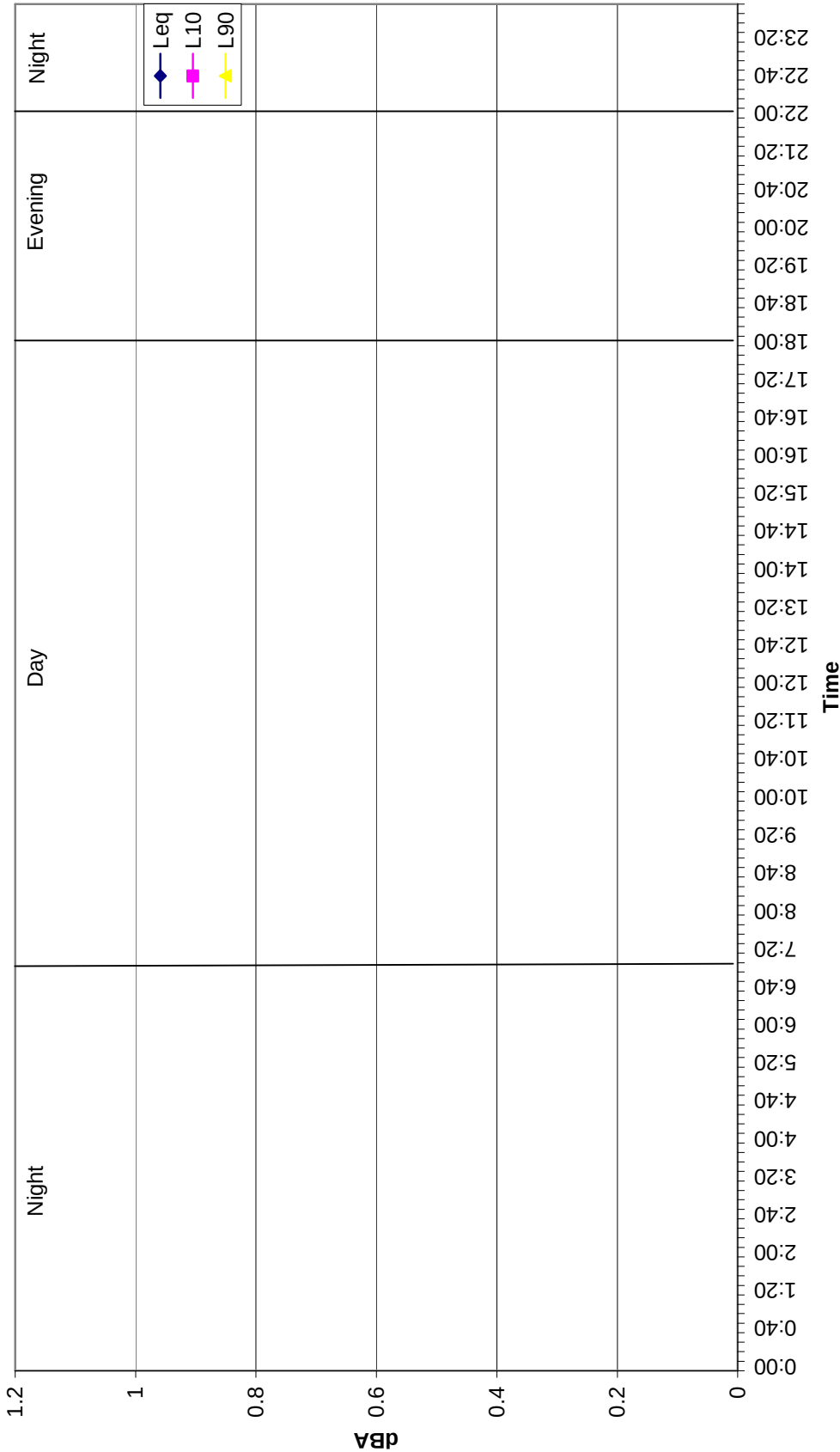
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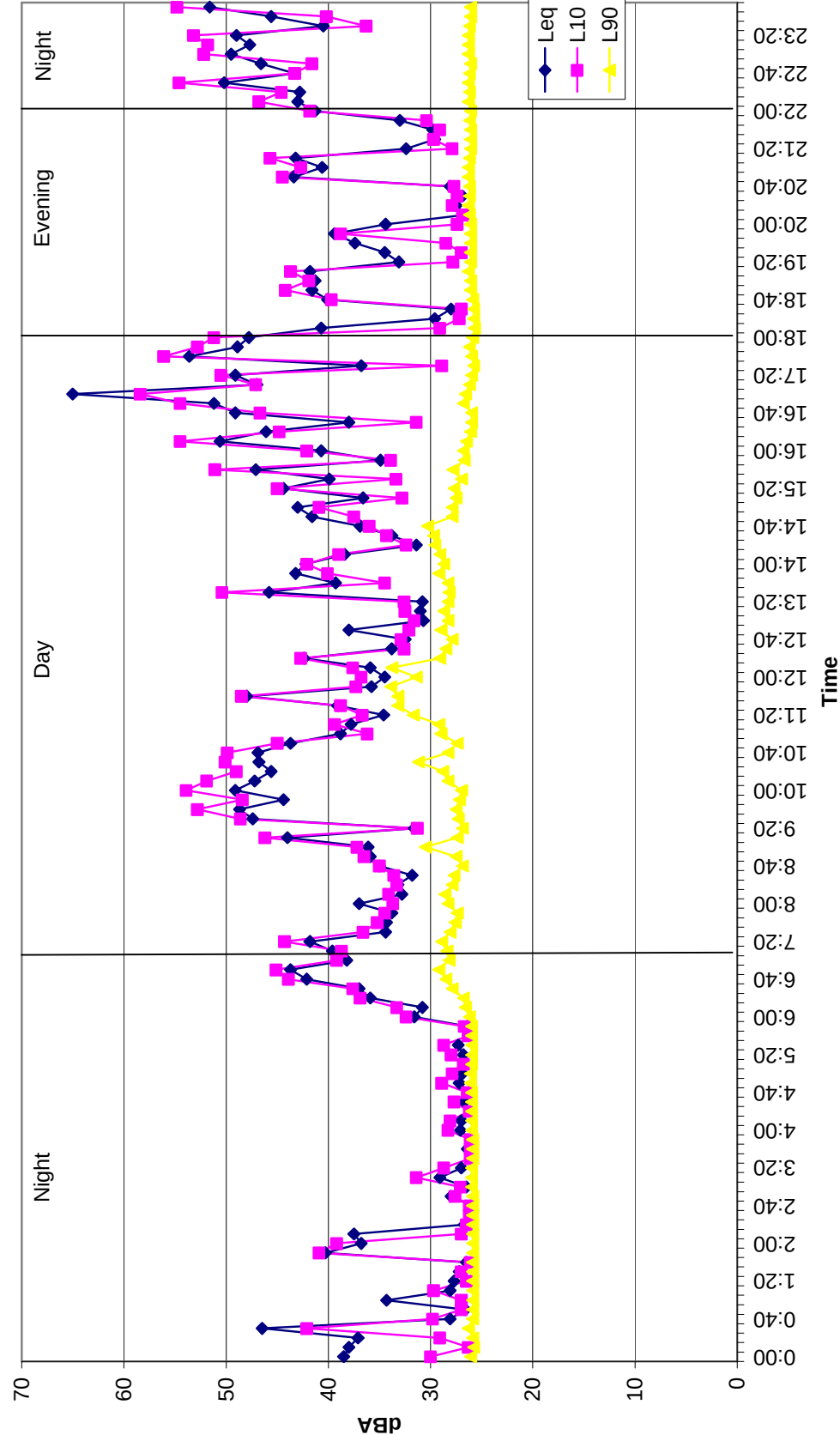
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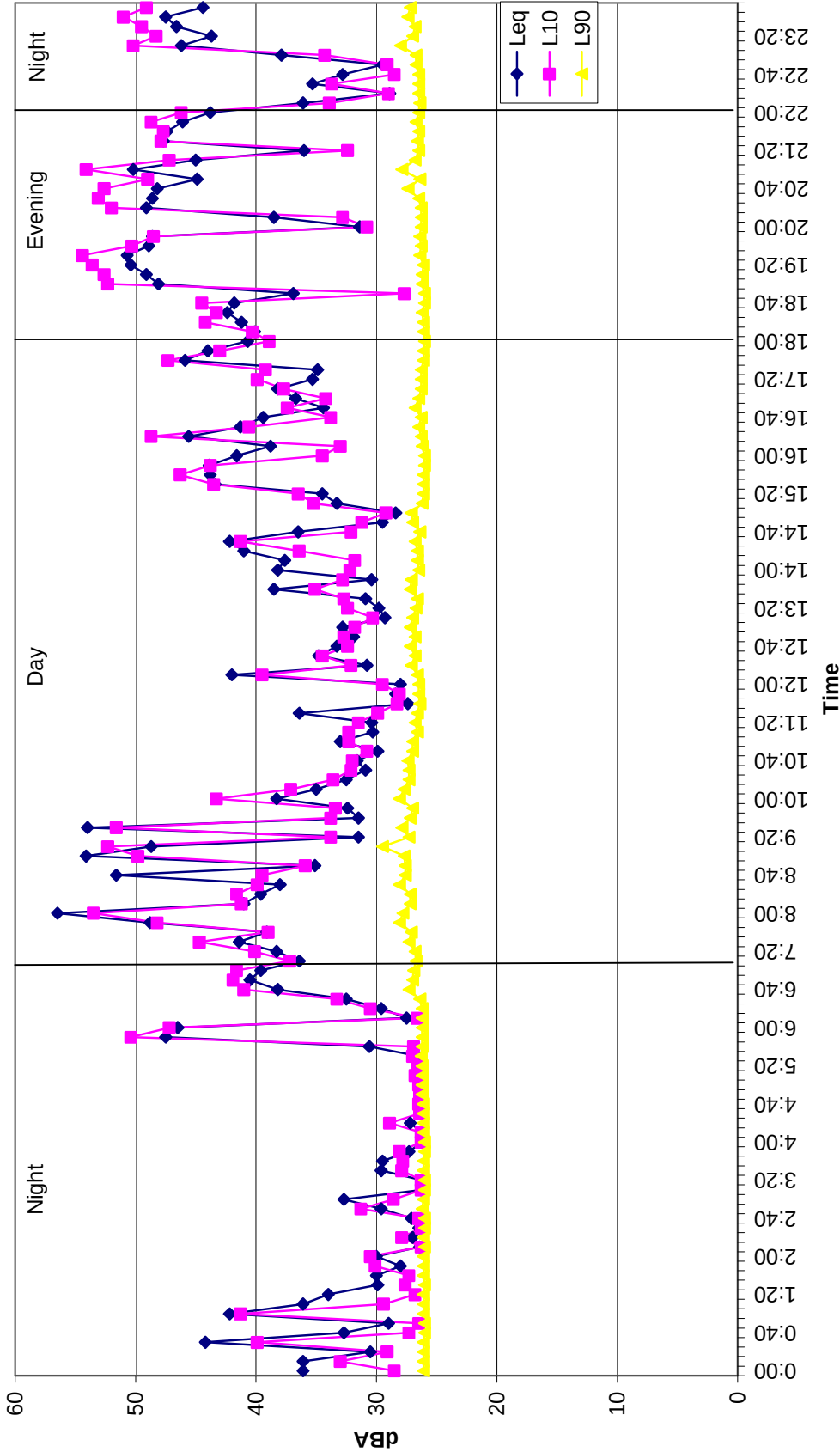
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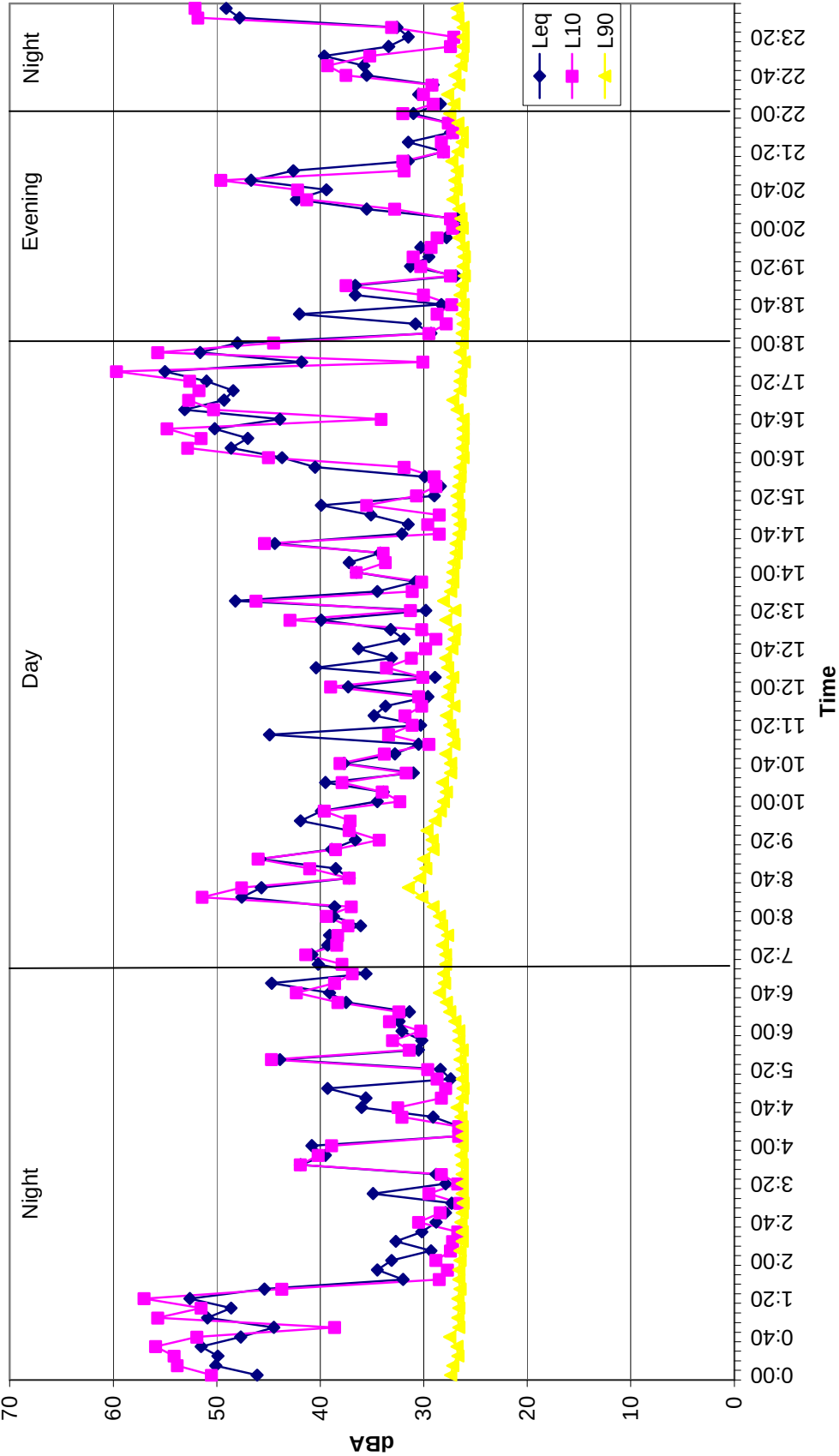
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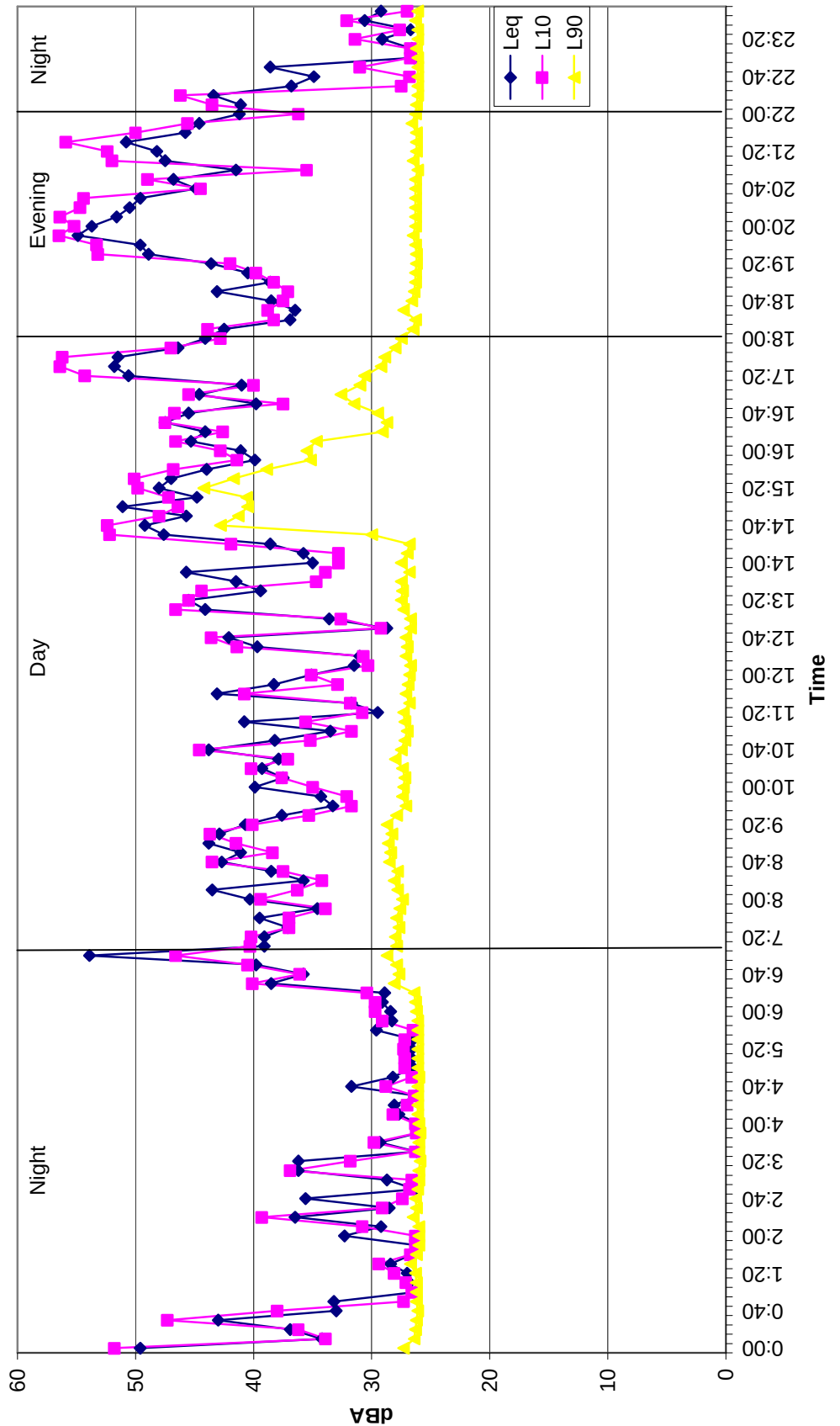
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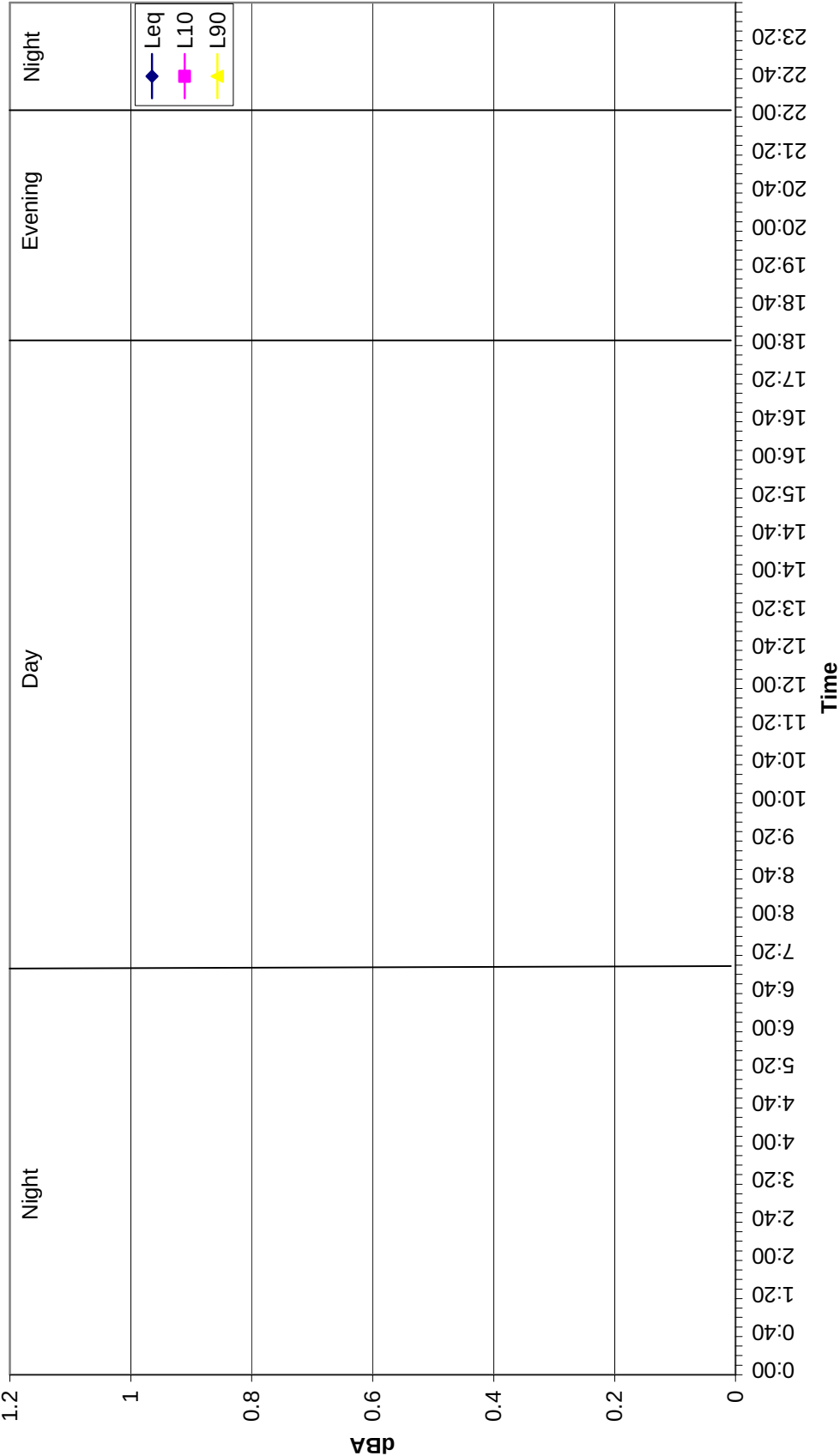
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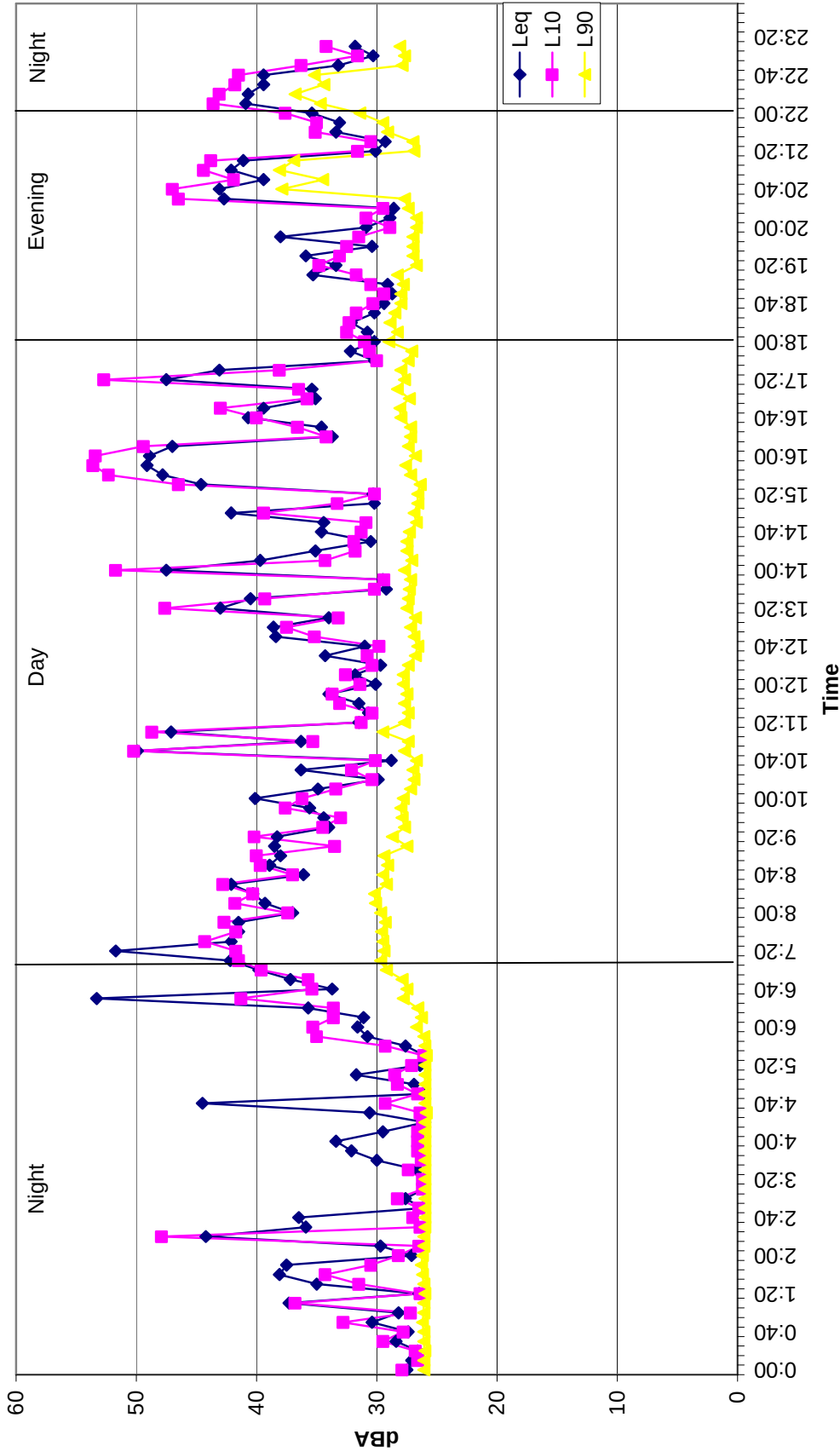
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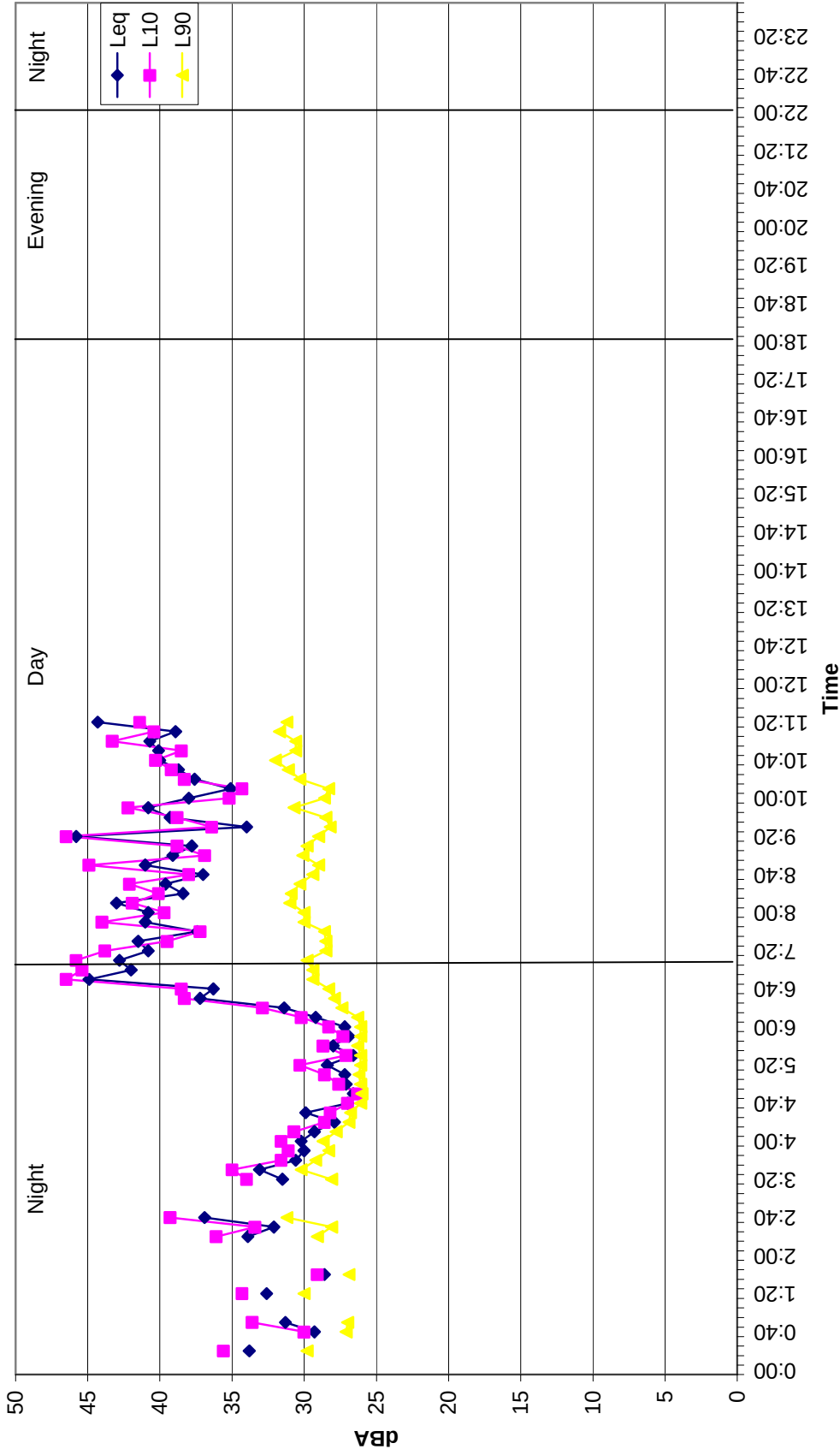
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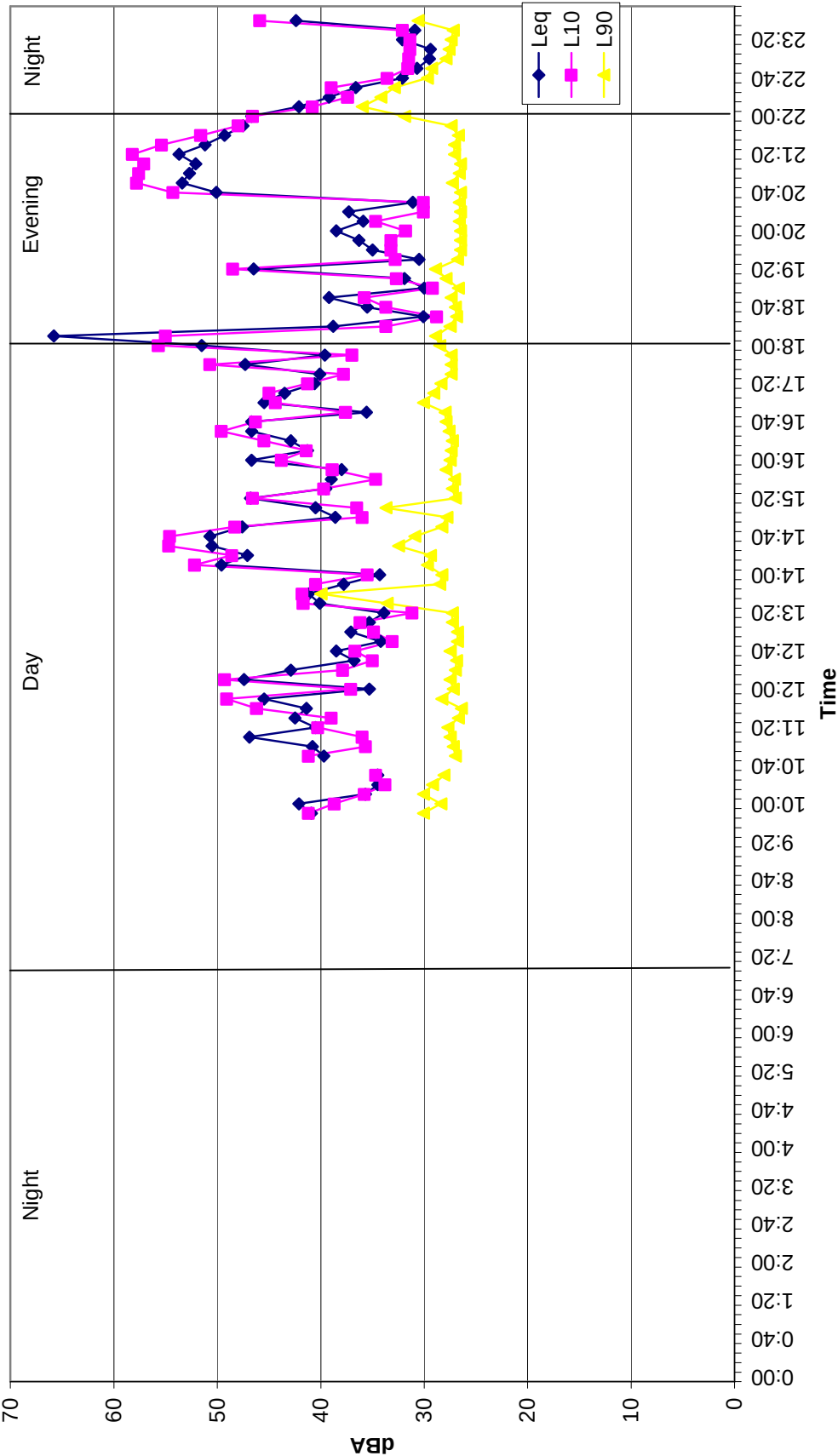
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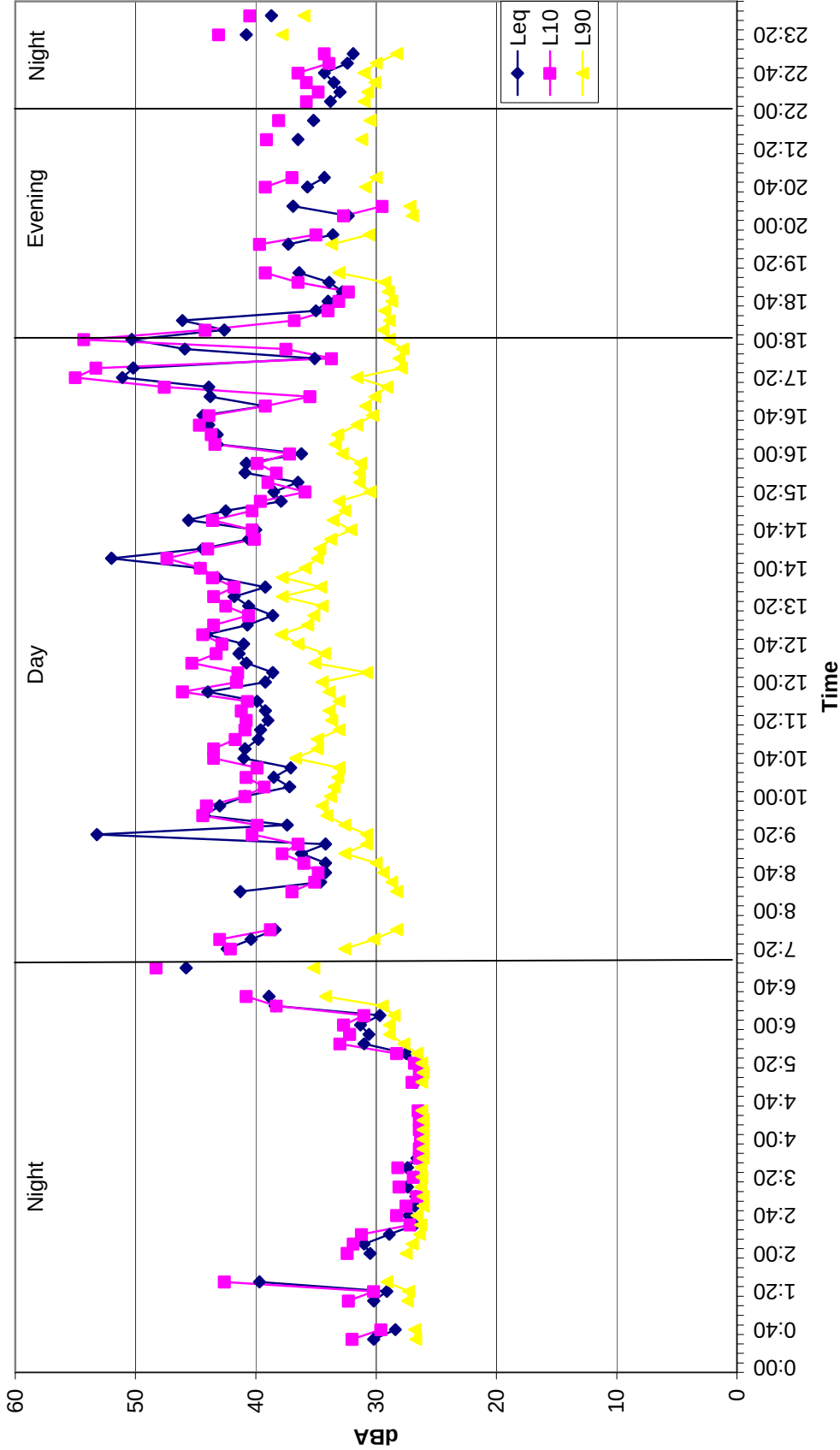
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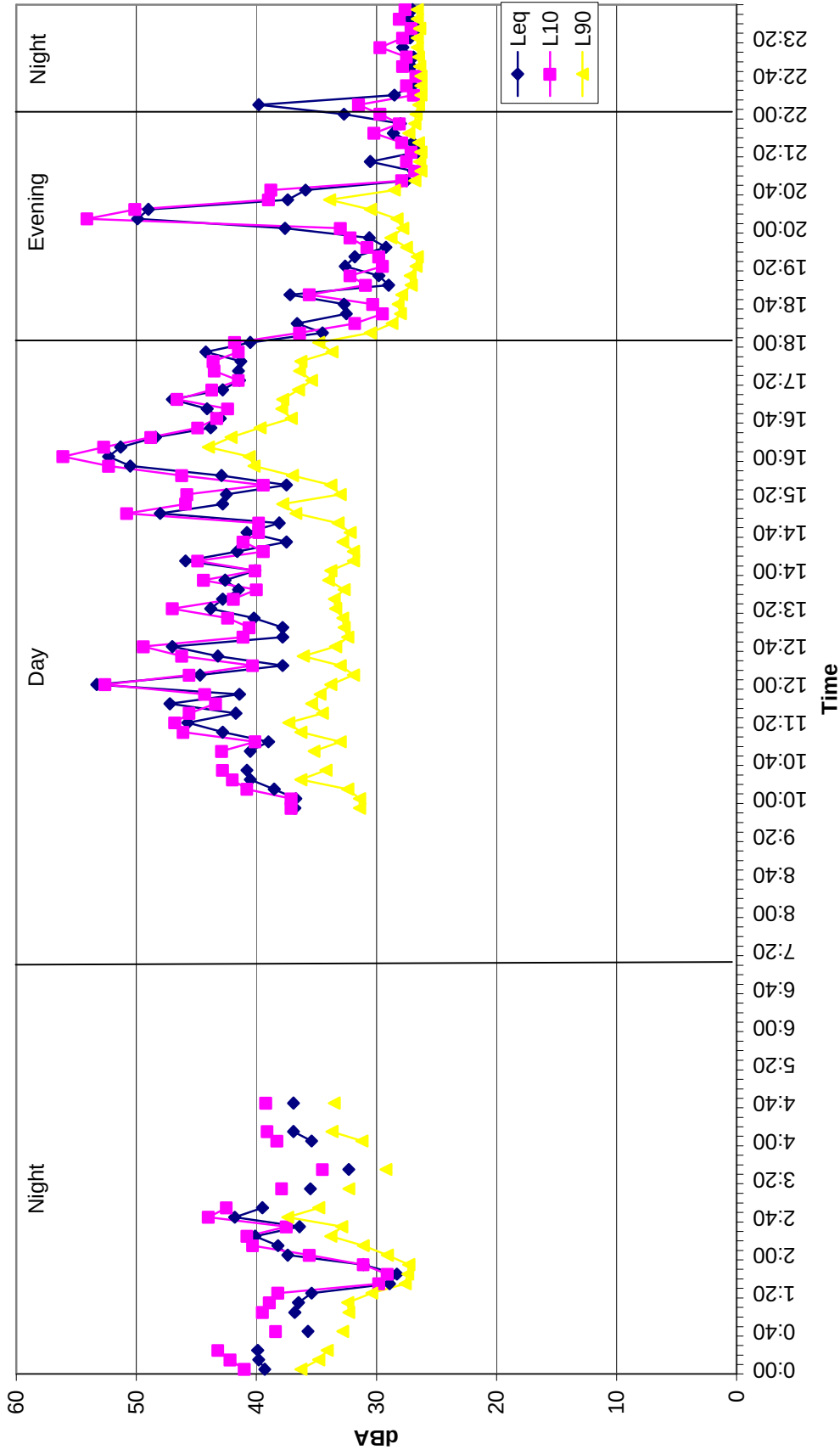
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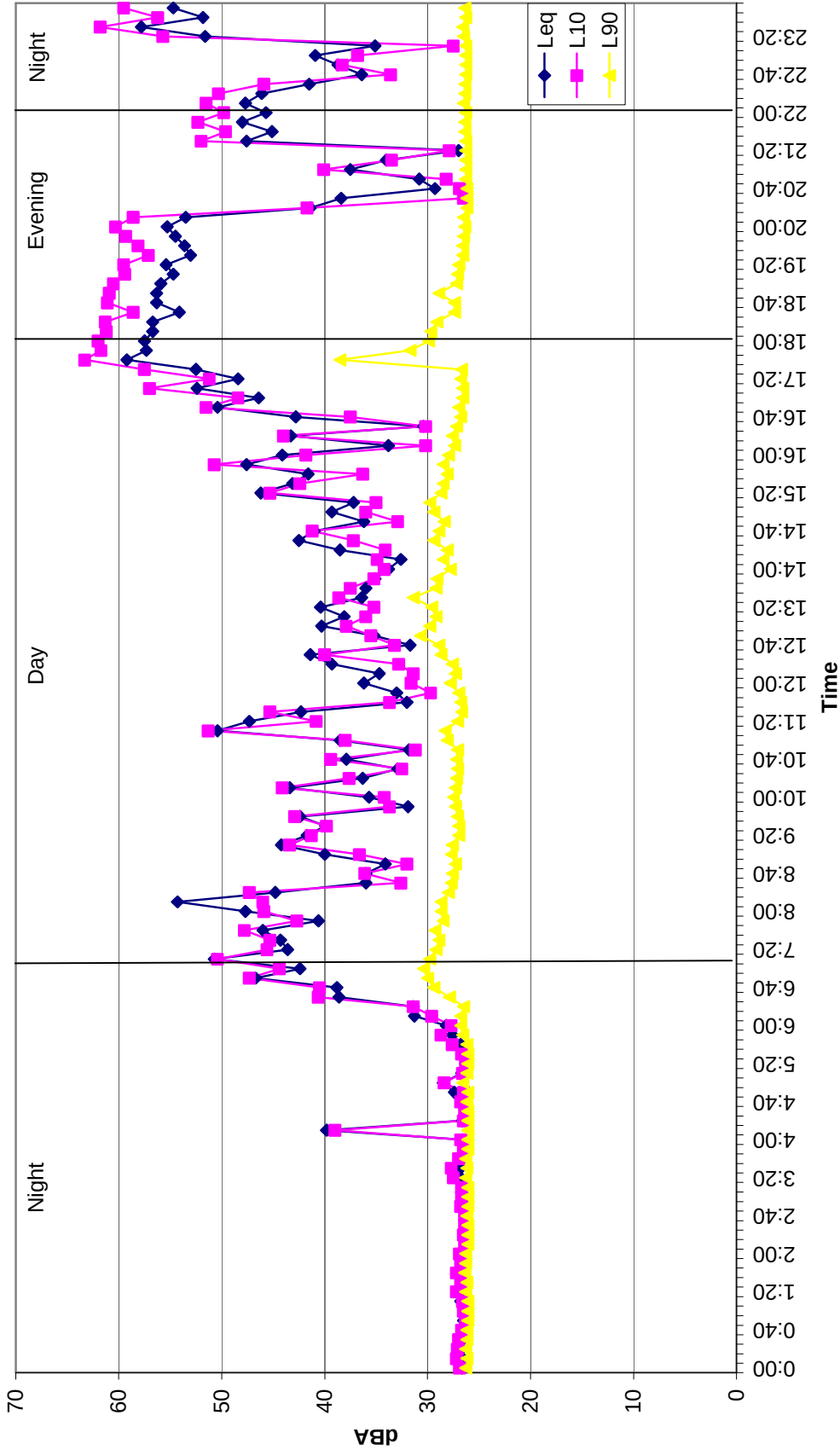
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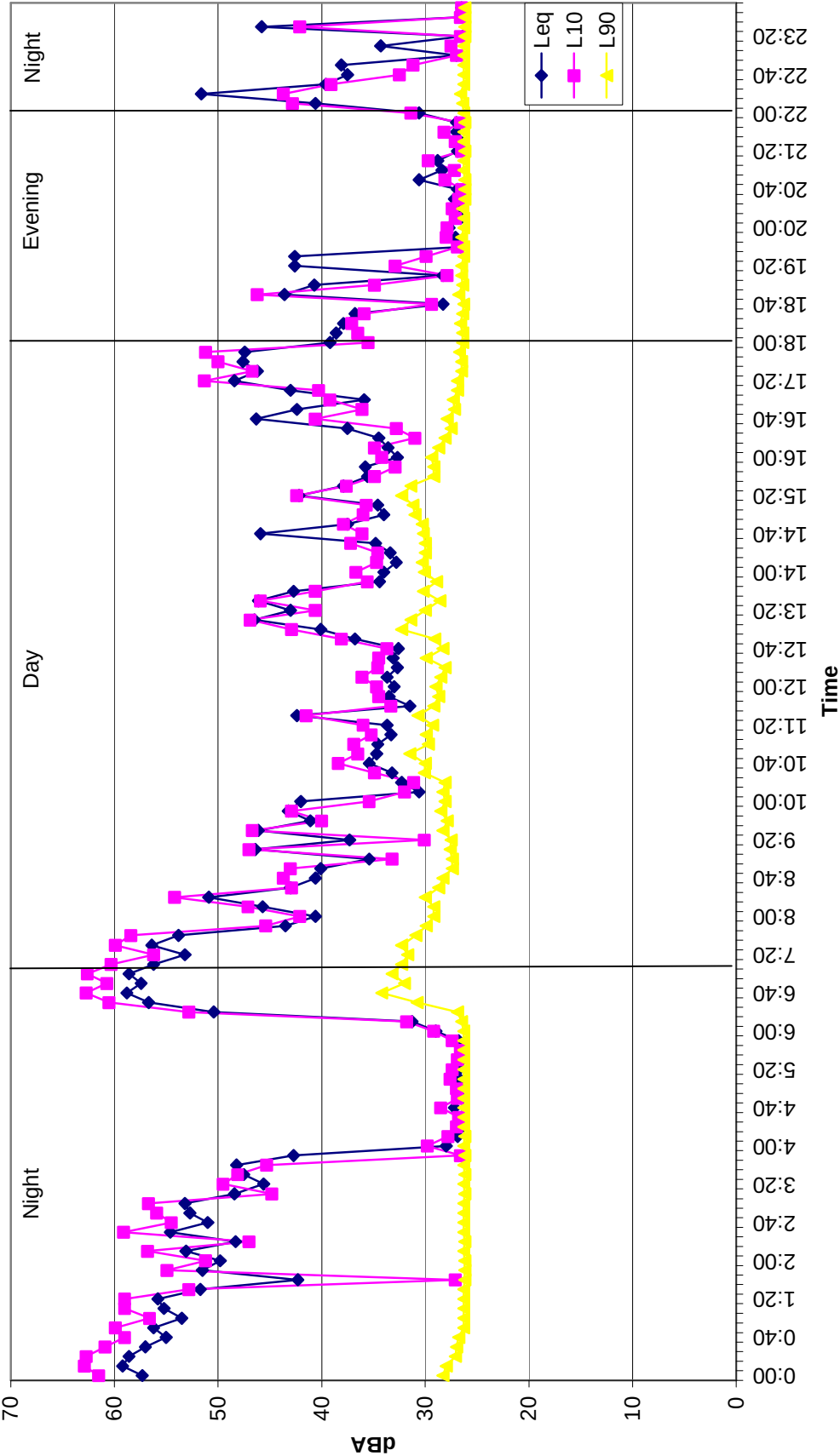
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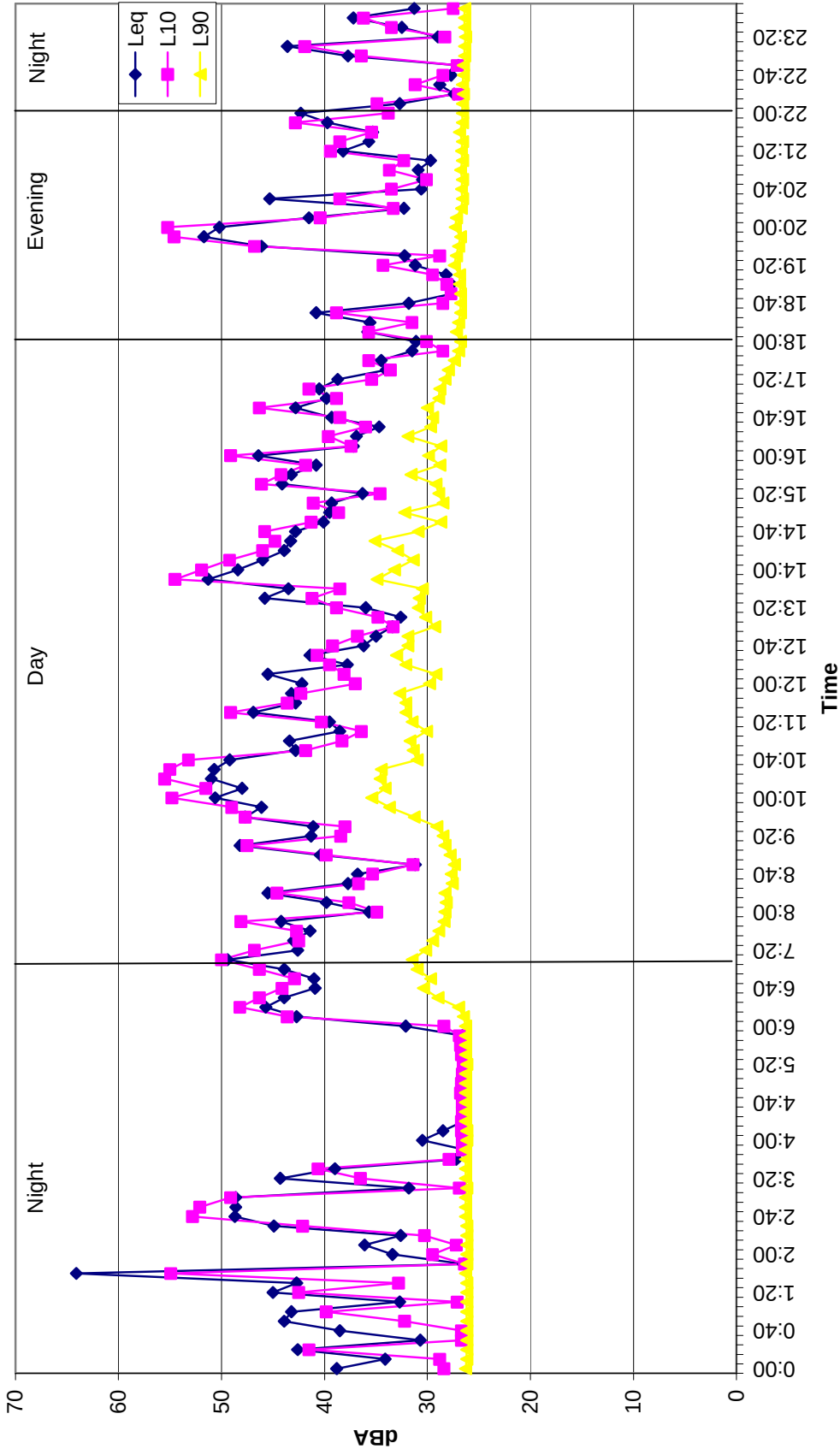
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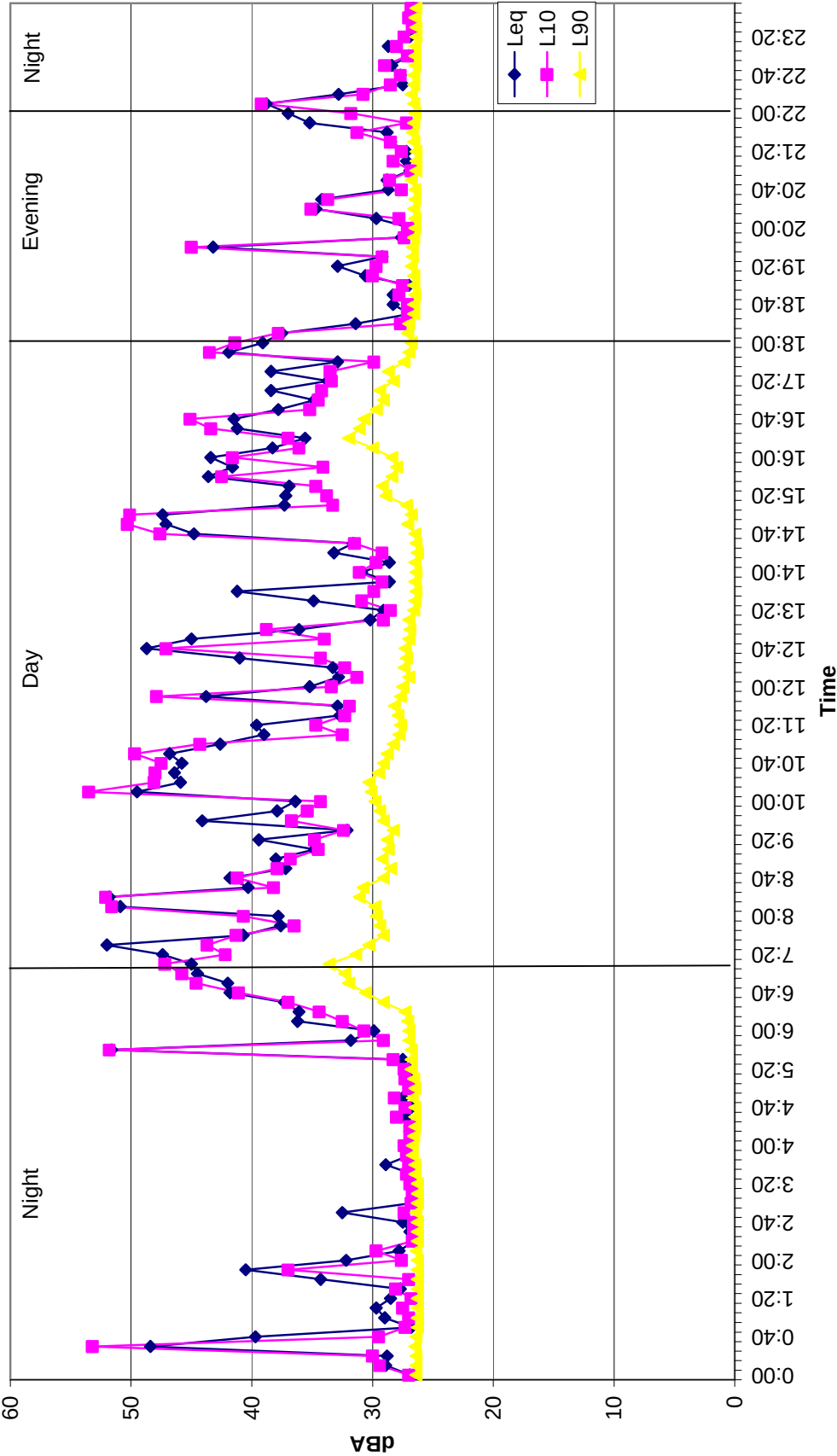
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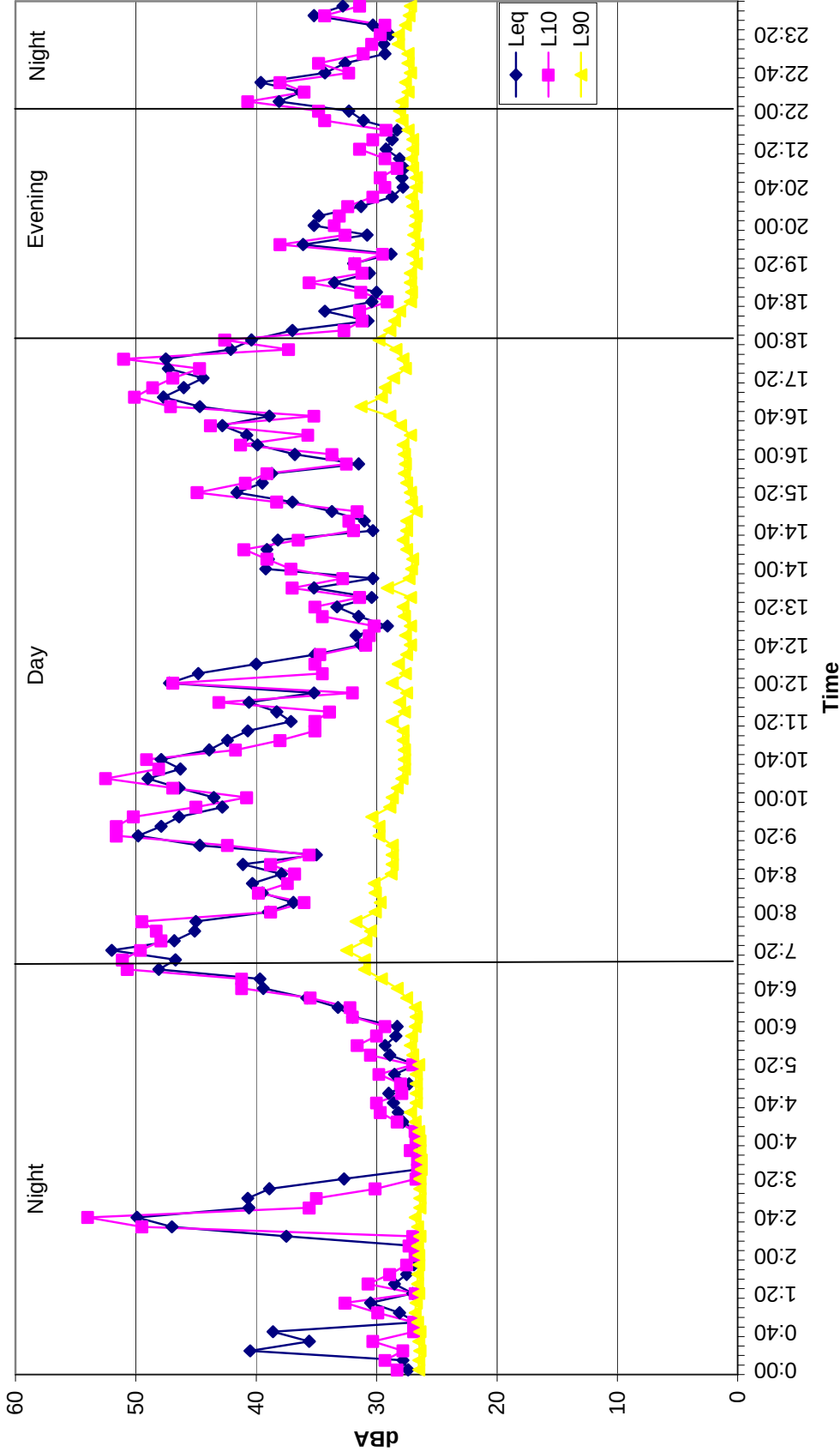
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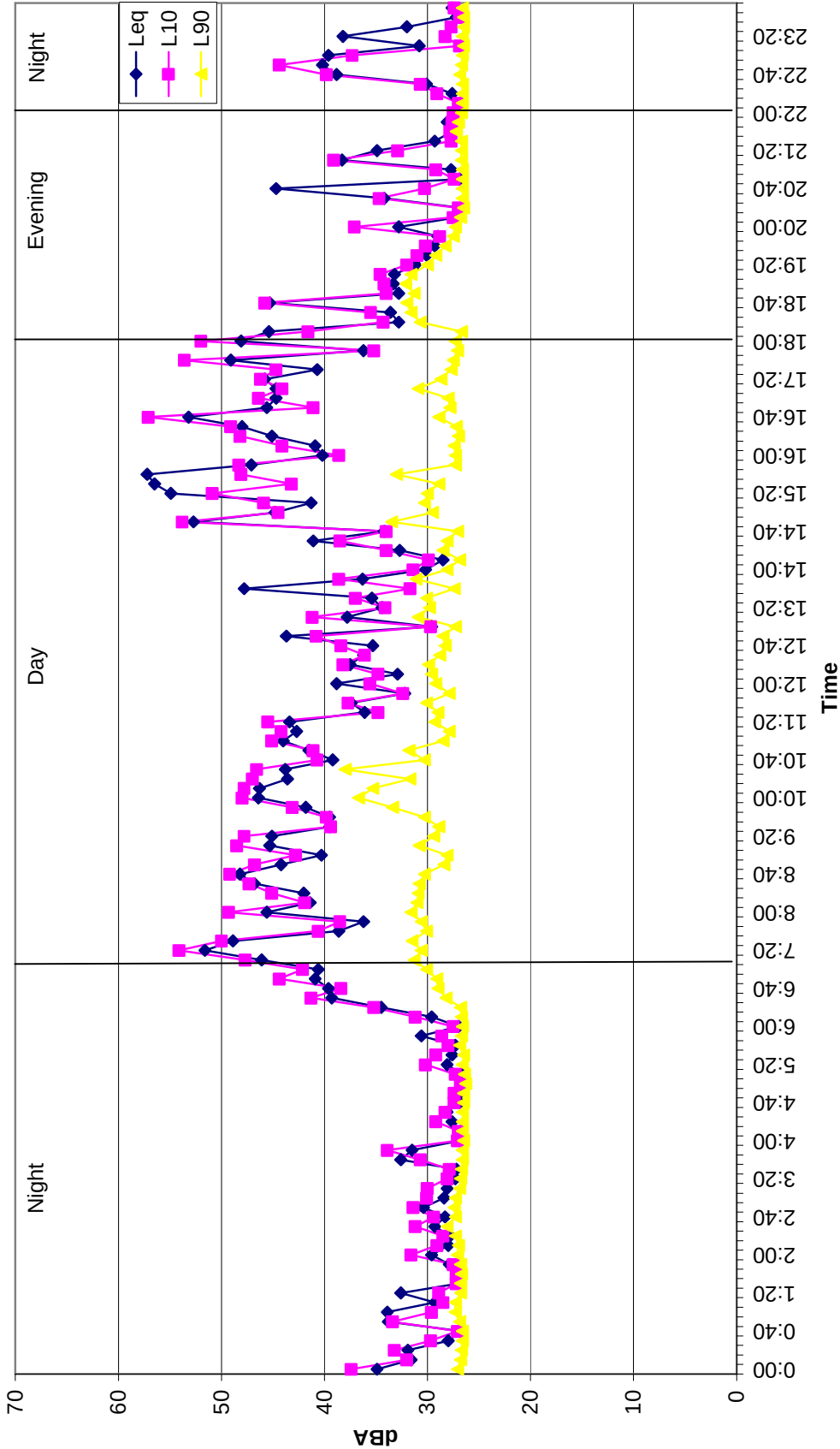
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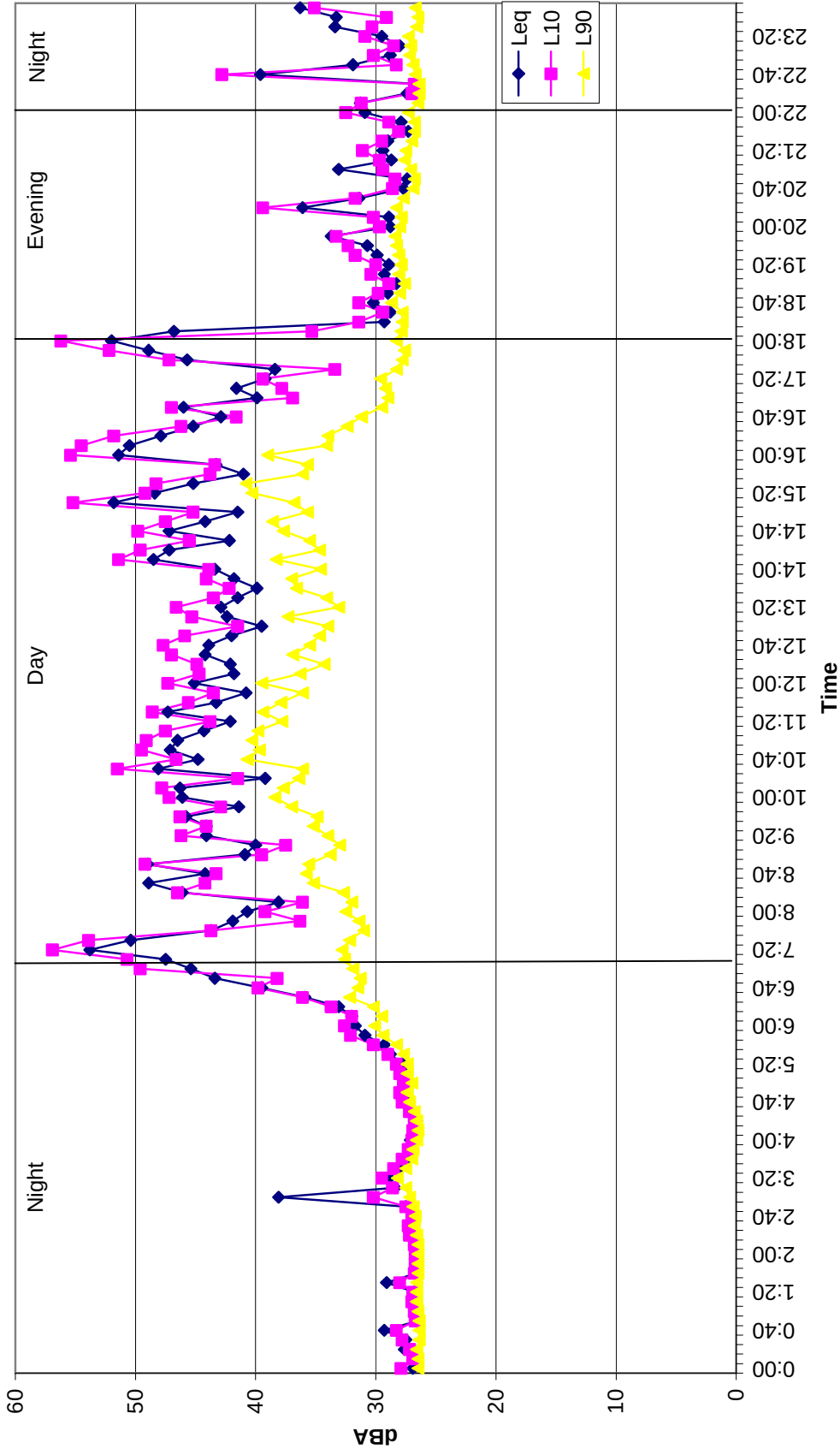
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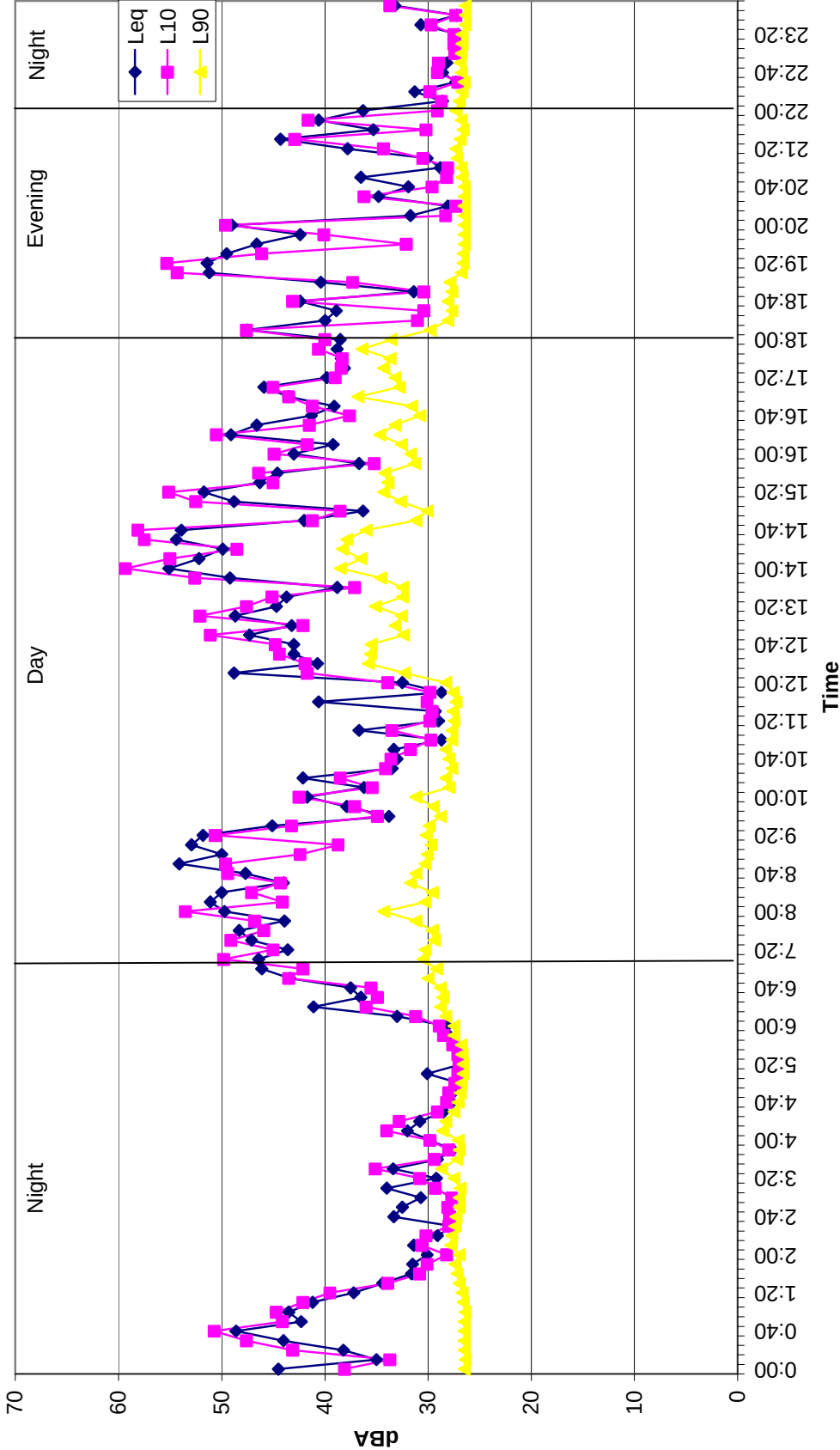
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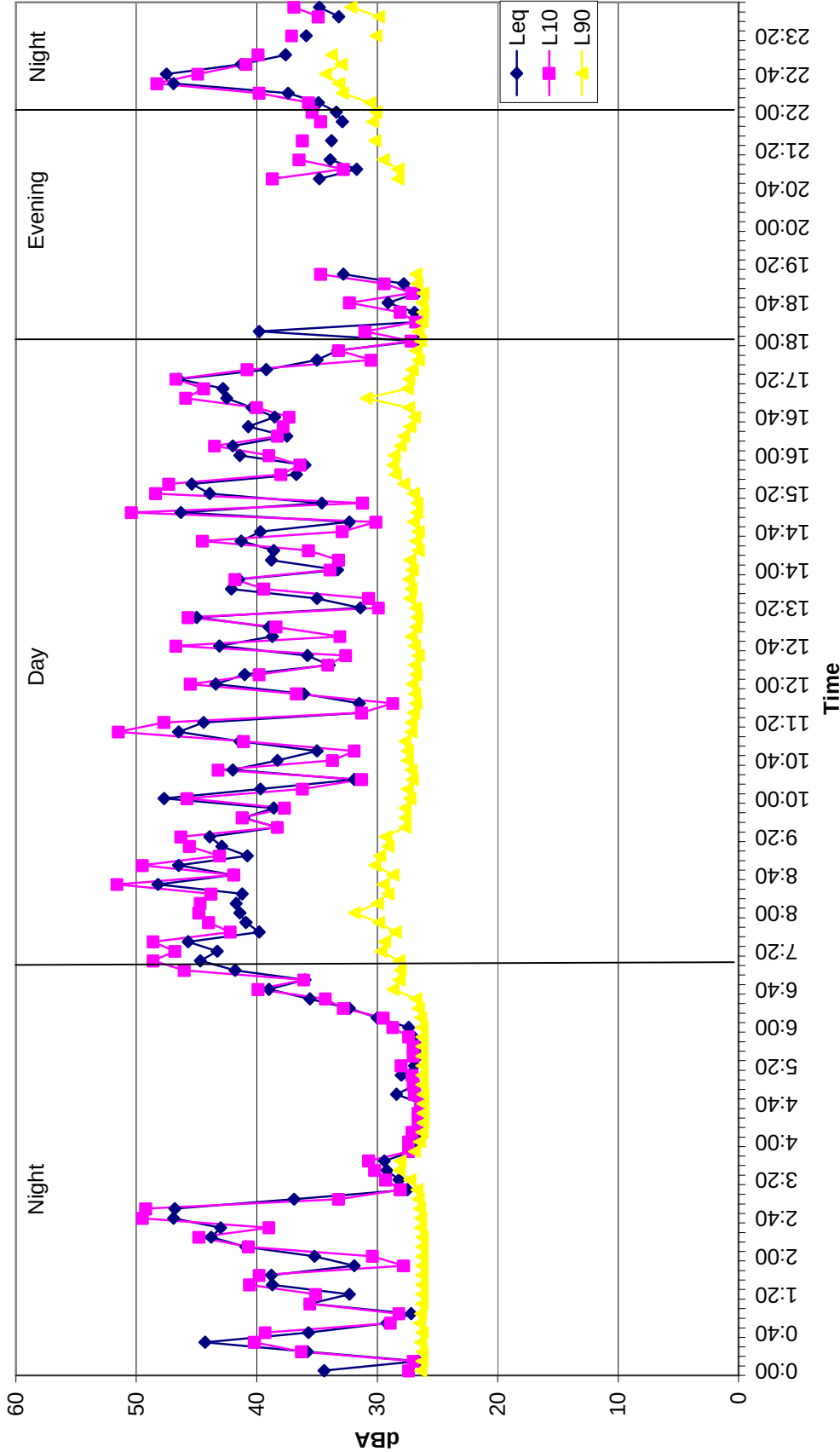
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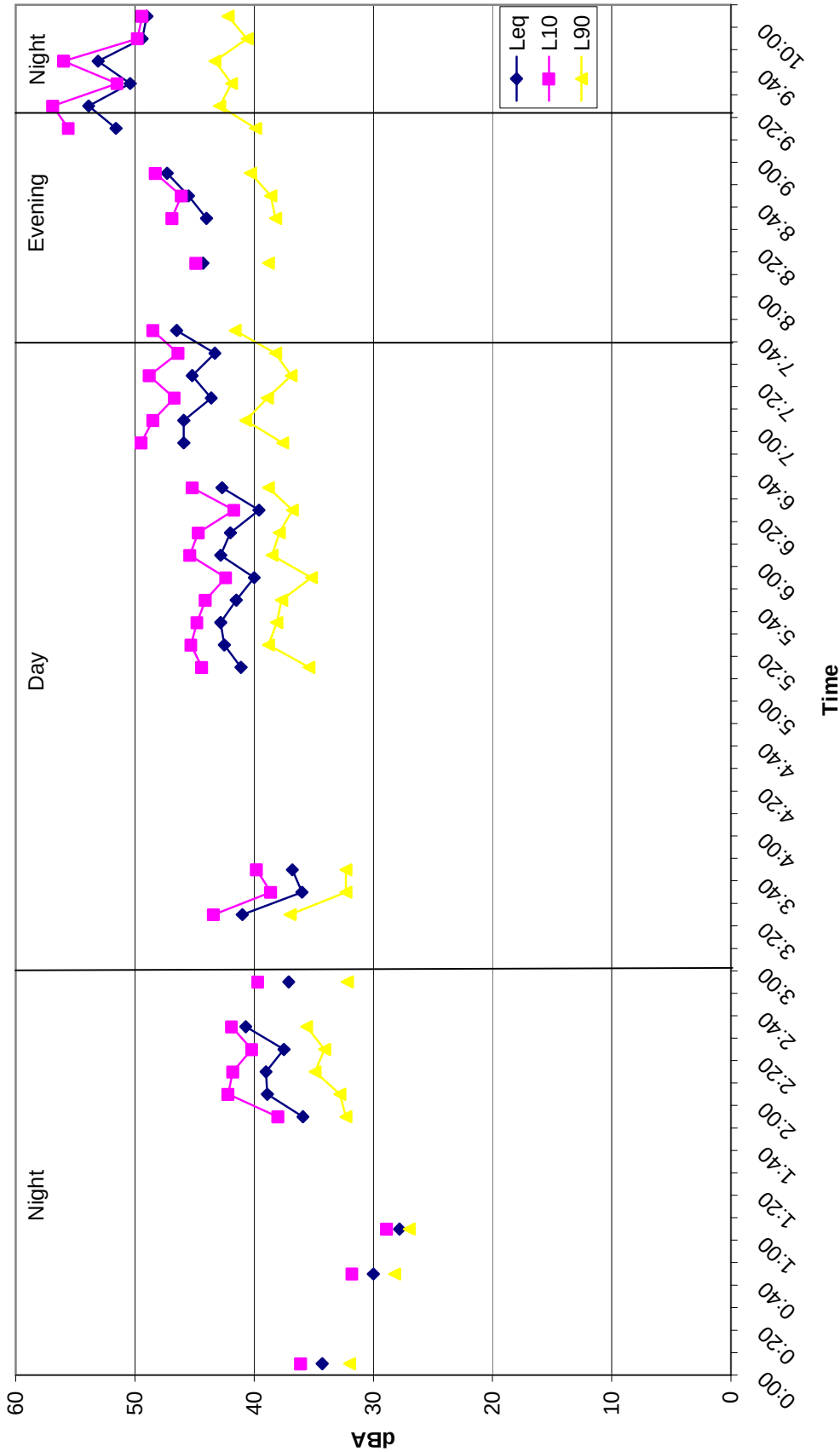
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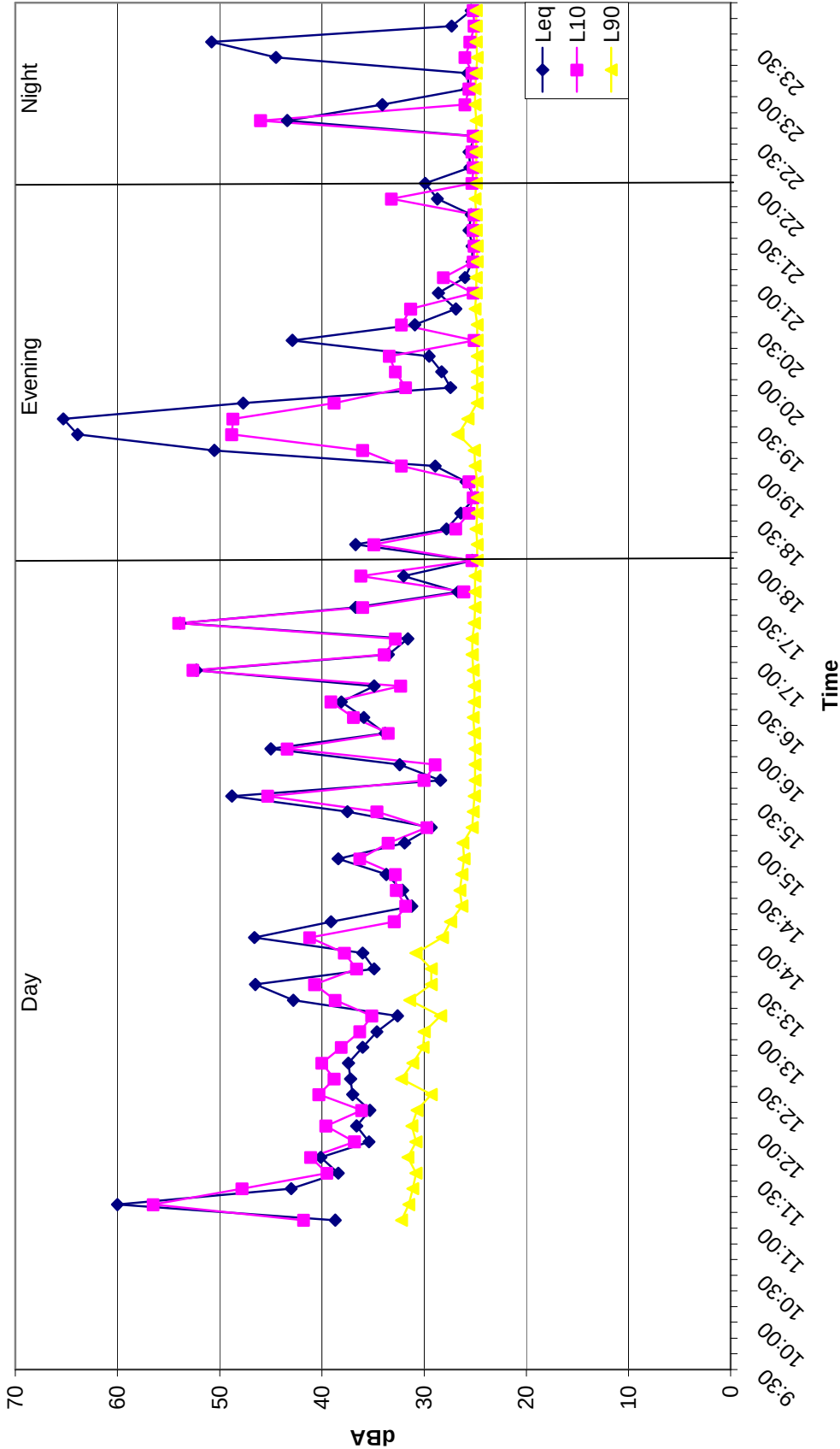
Rose Hill 18/6/07



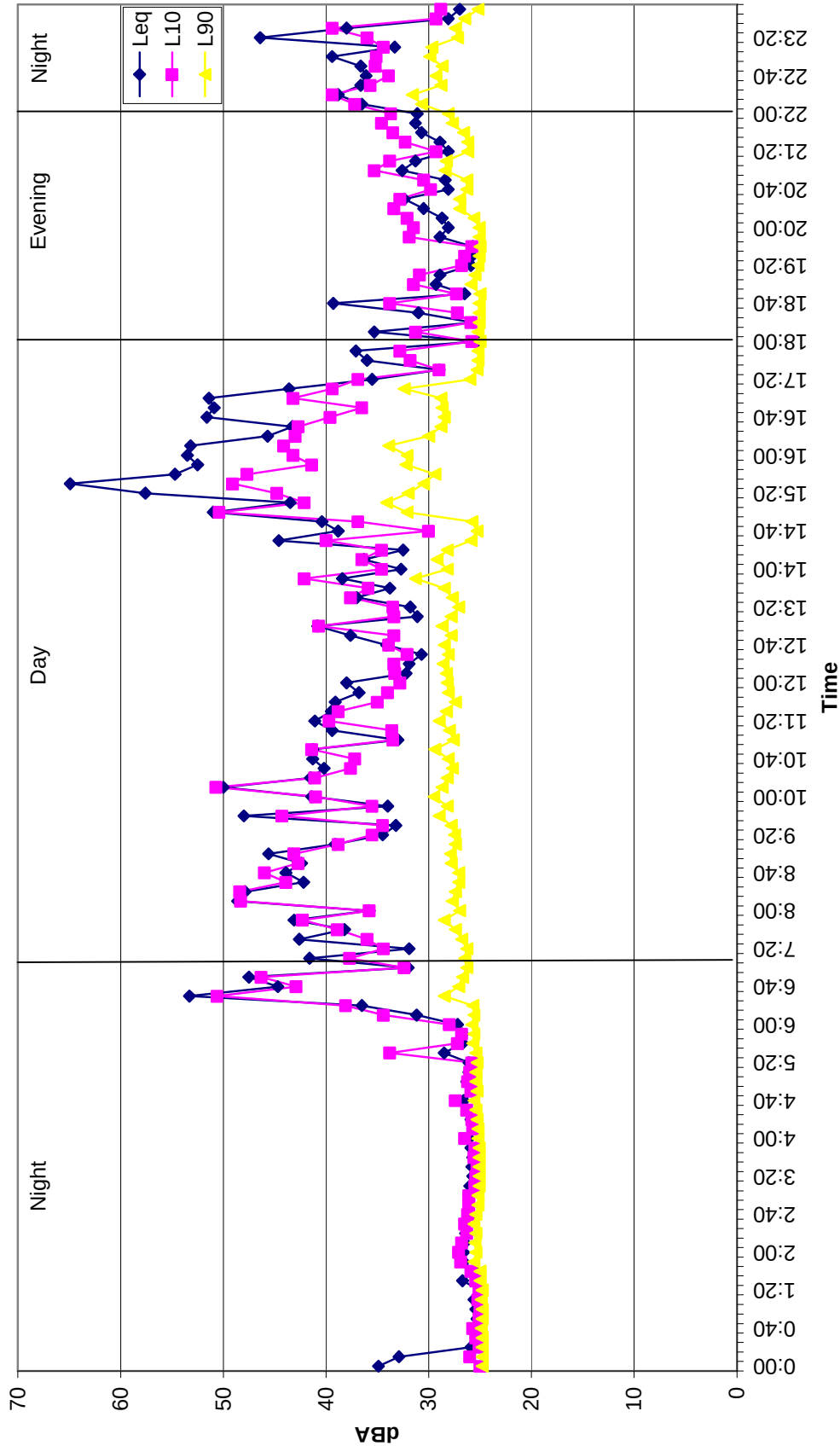
Rose Hill 19/6/07

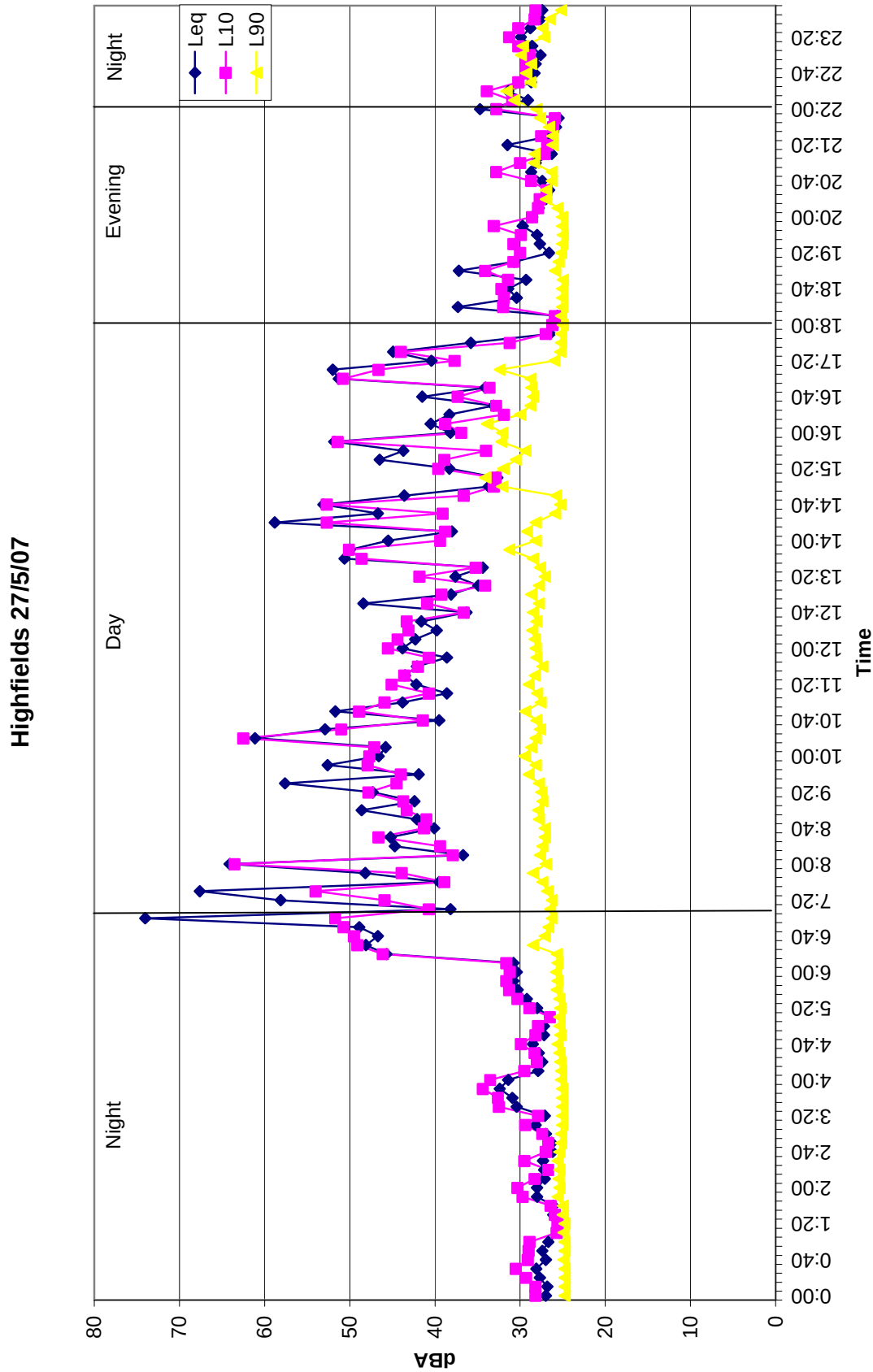


Highfields 25/5/07

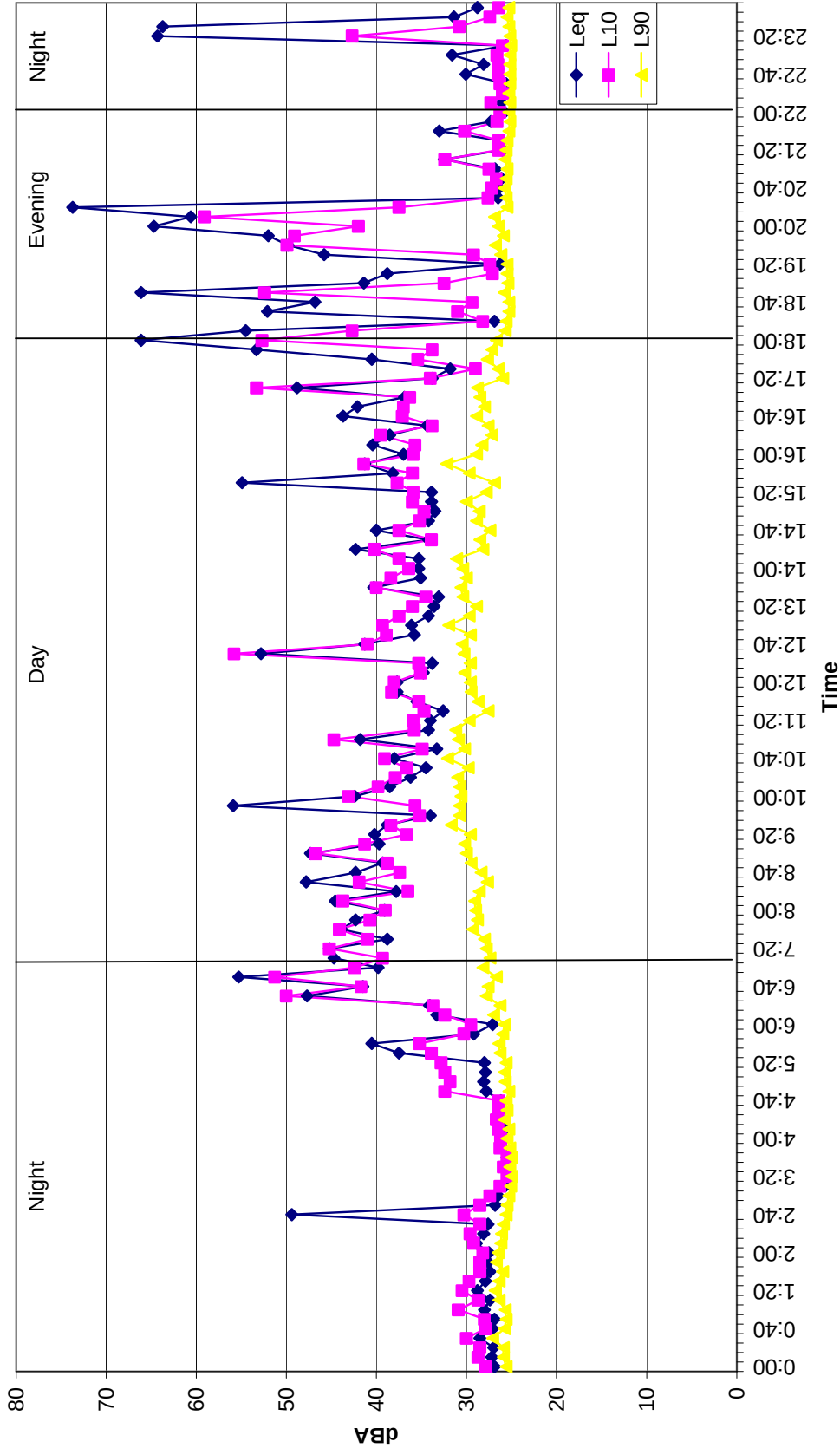


Highfields 26/5/07

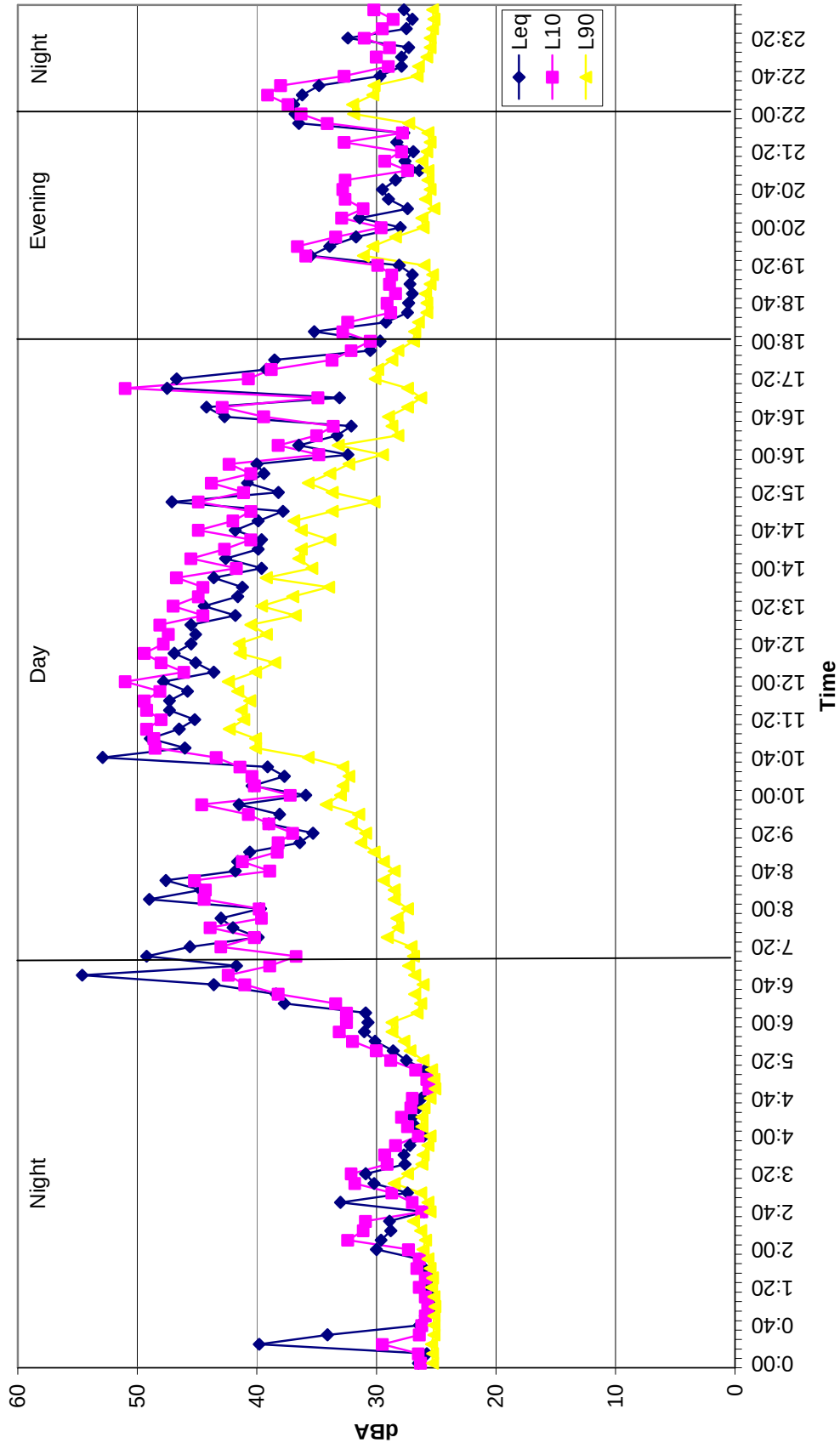




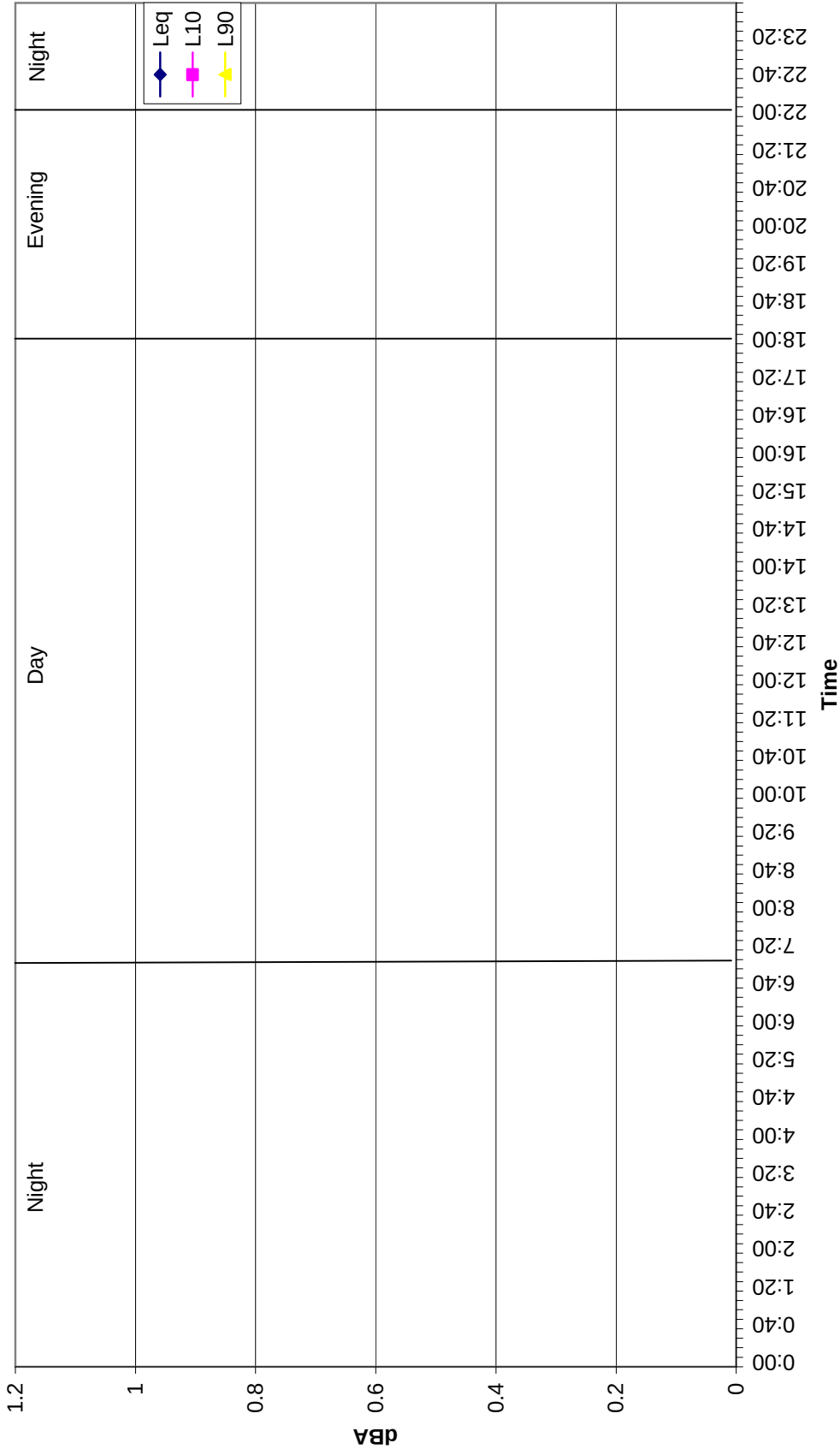
Highfields 28/5/07



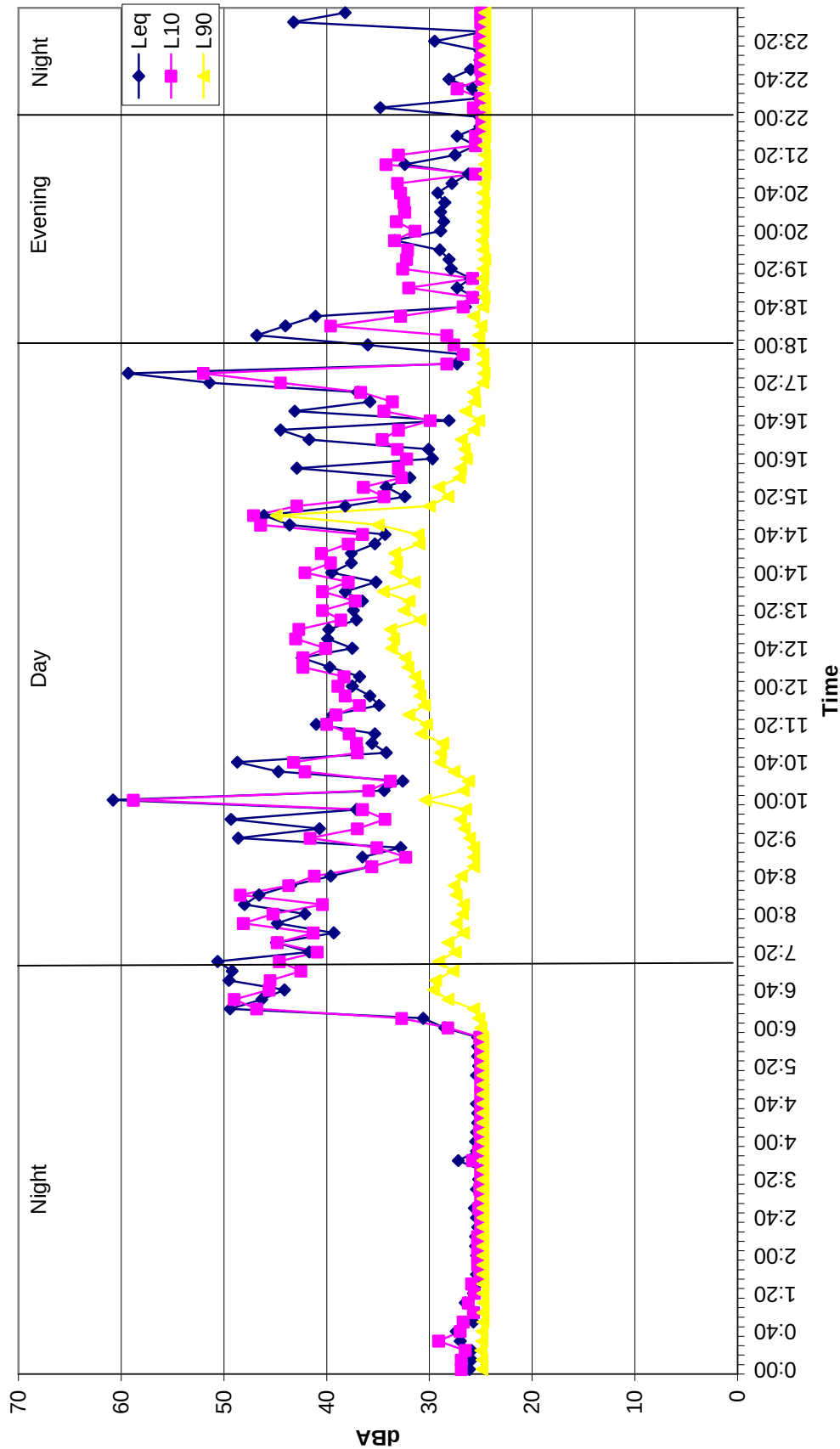
Highfields 29/5/07



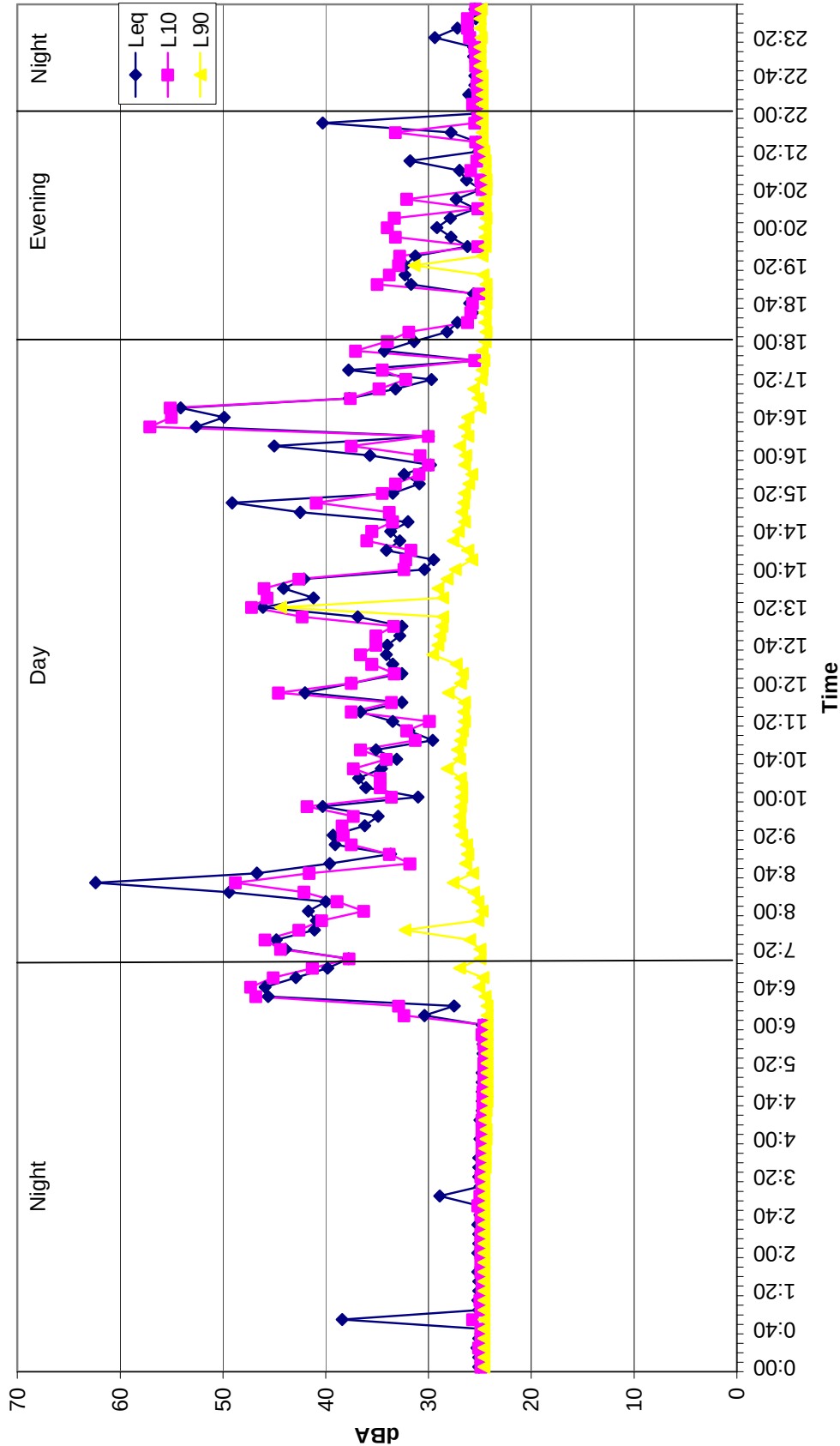
Highfields 30/5/07

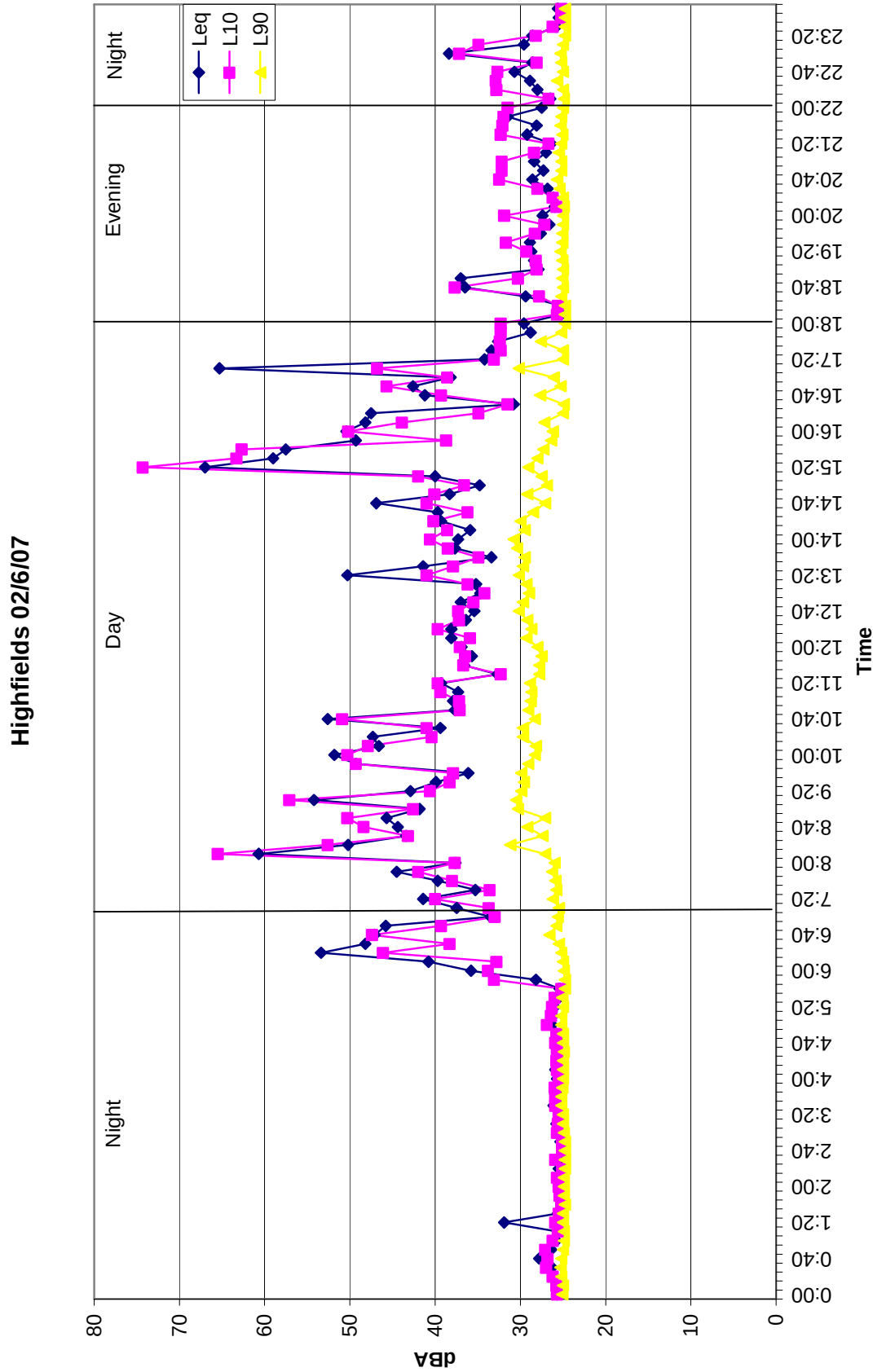


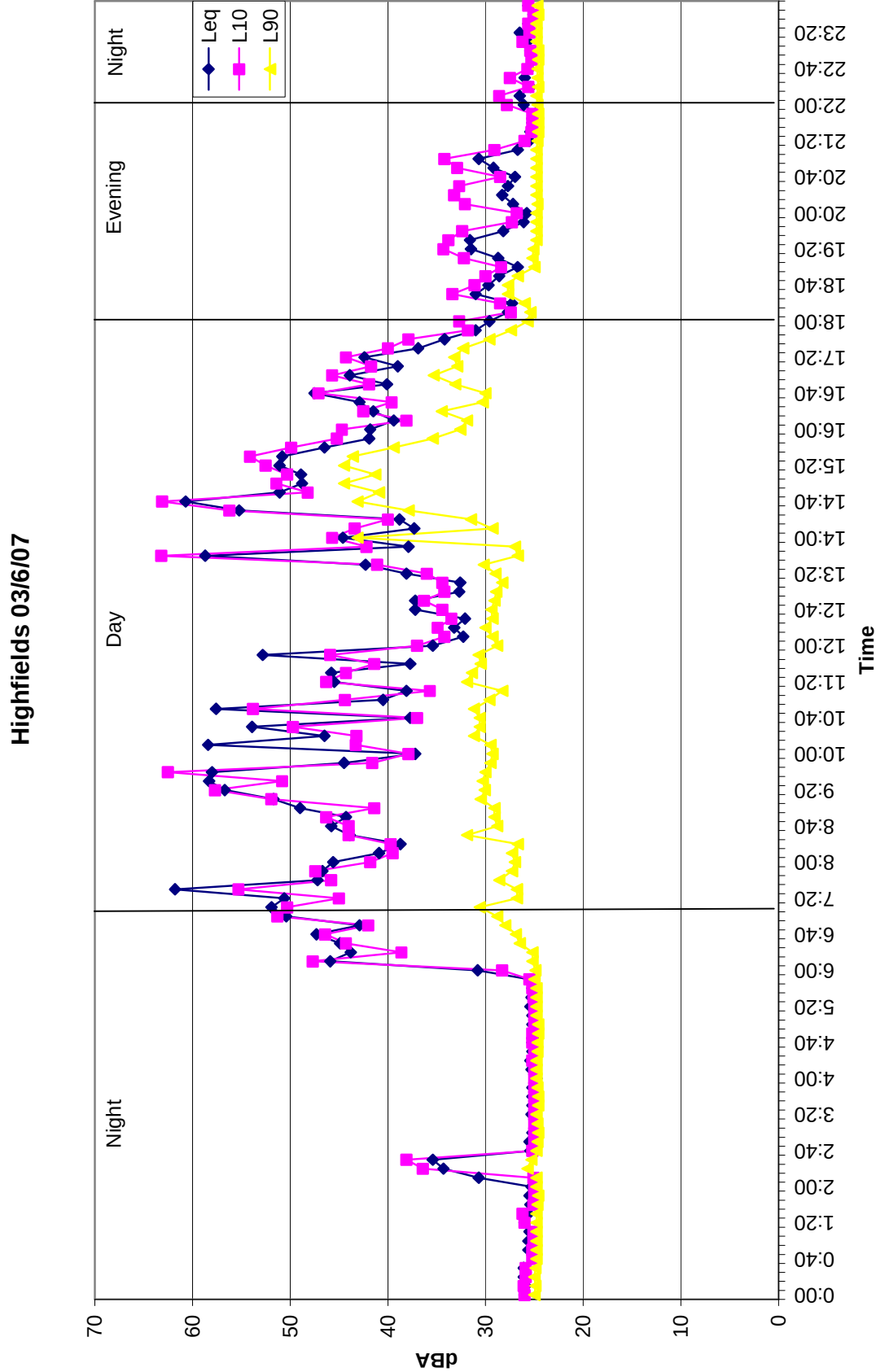
Highfields 31/5/07



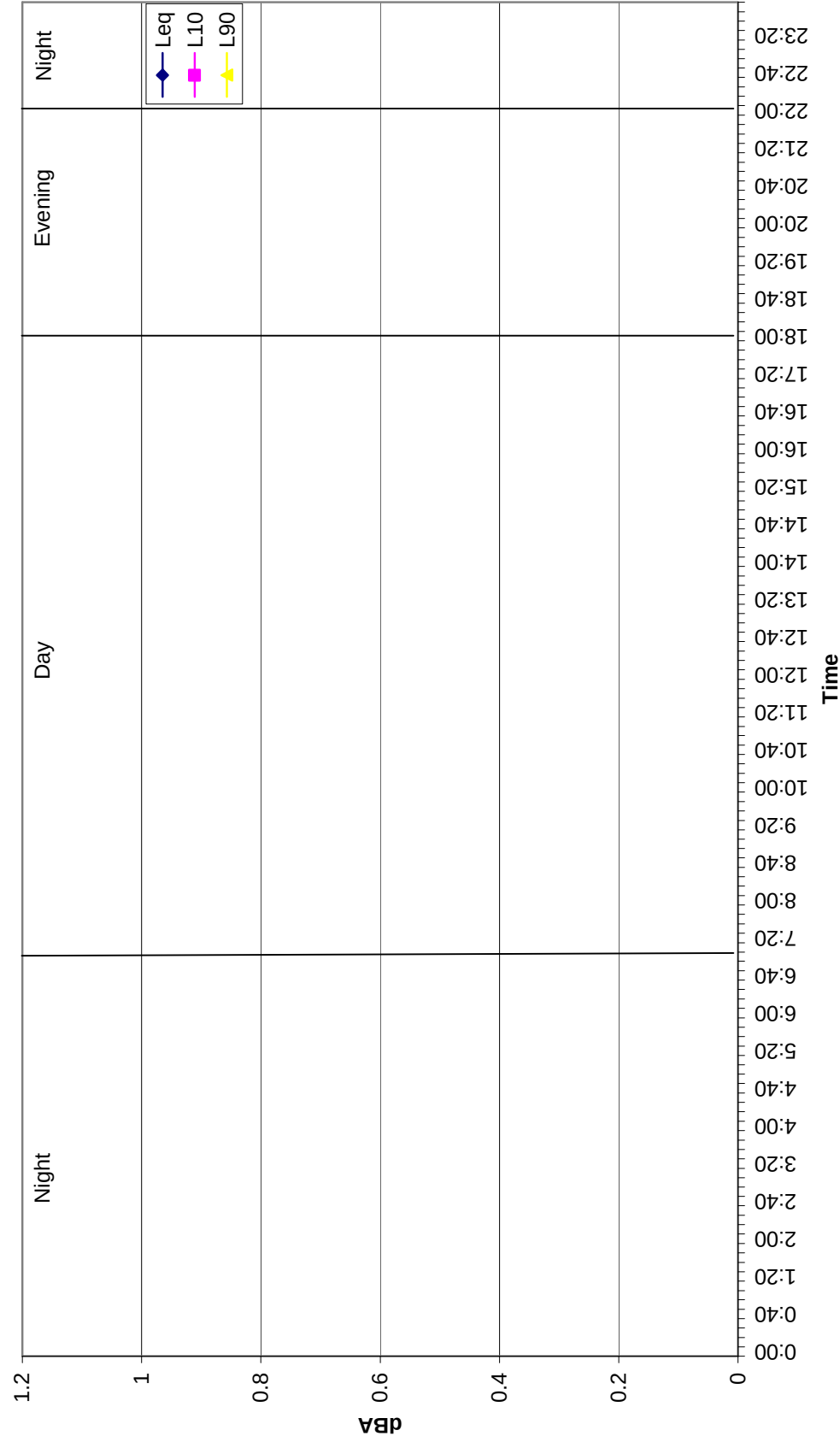
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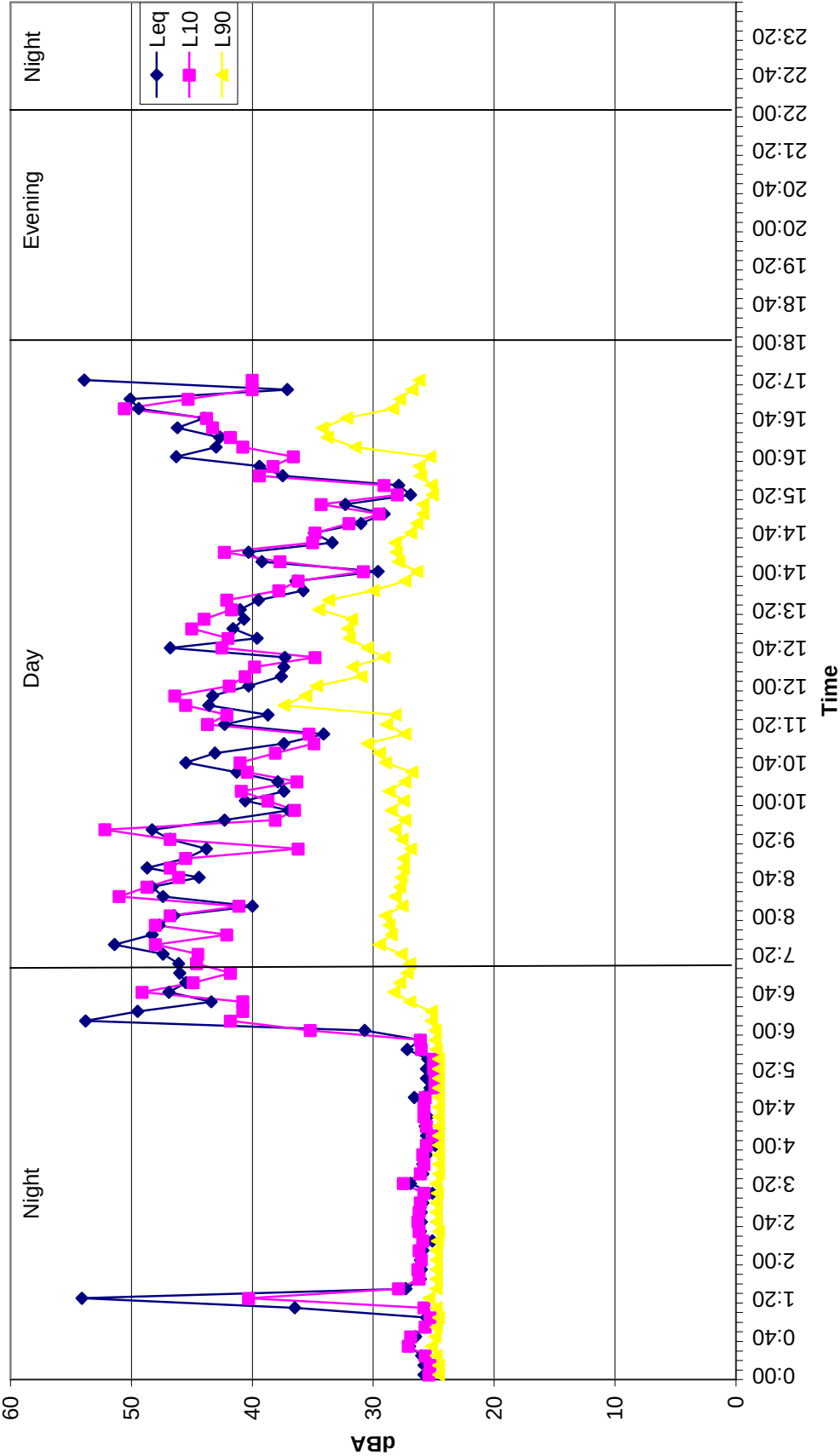




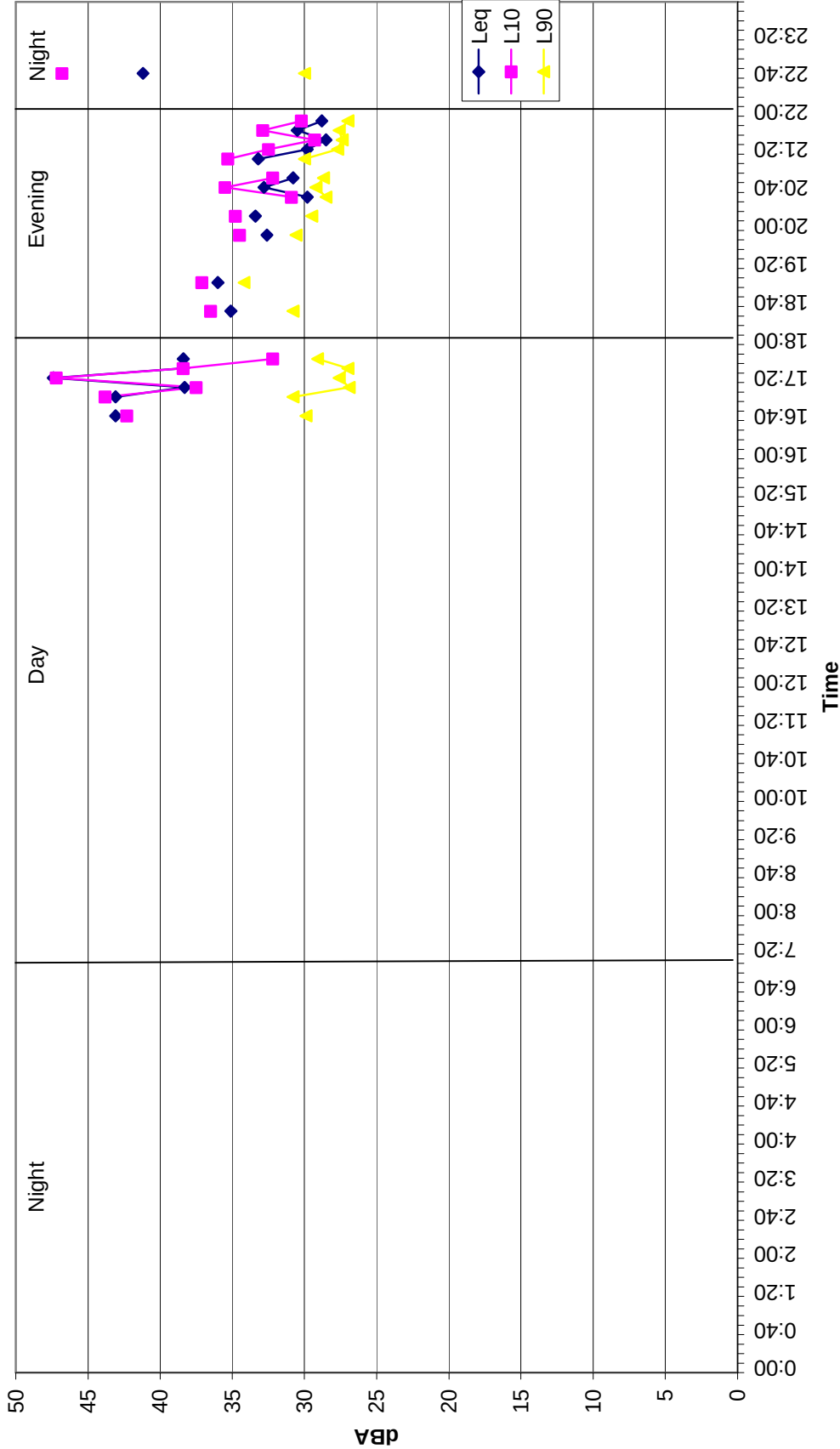
Highfields 04/6/07



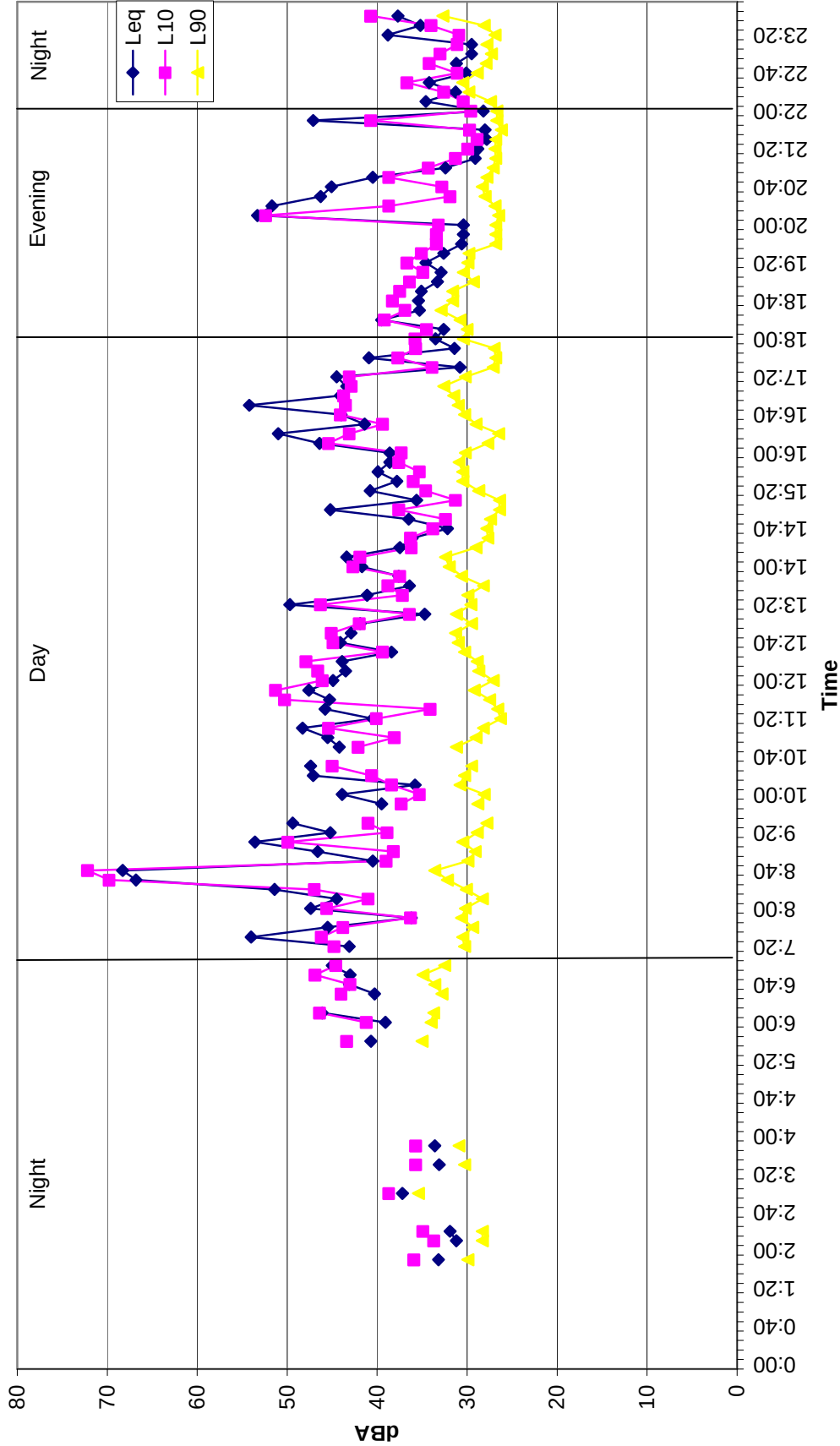
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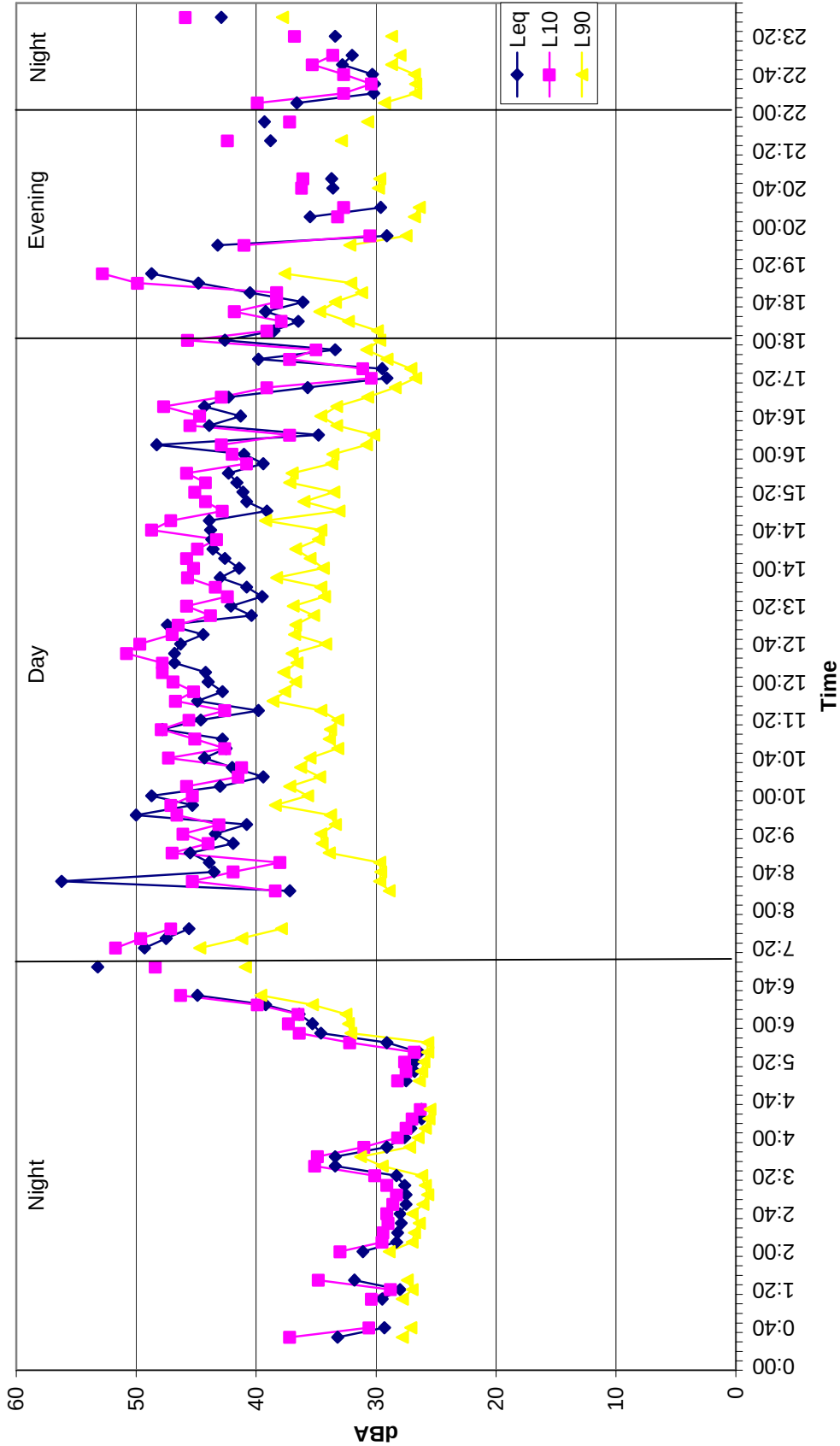
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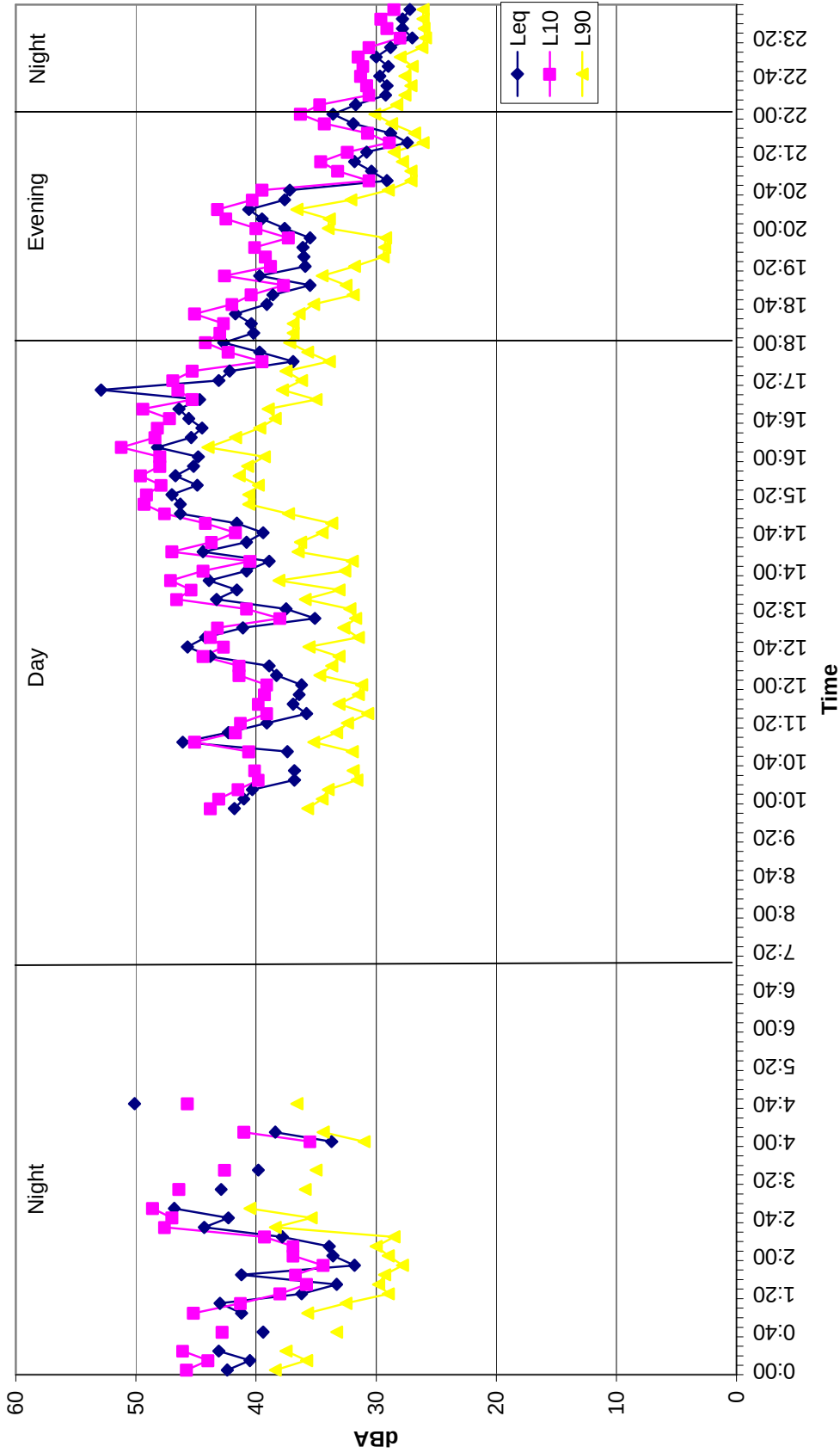
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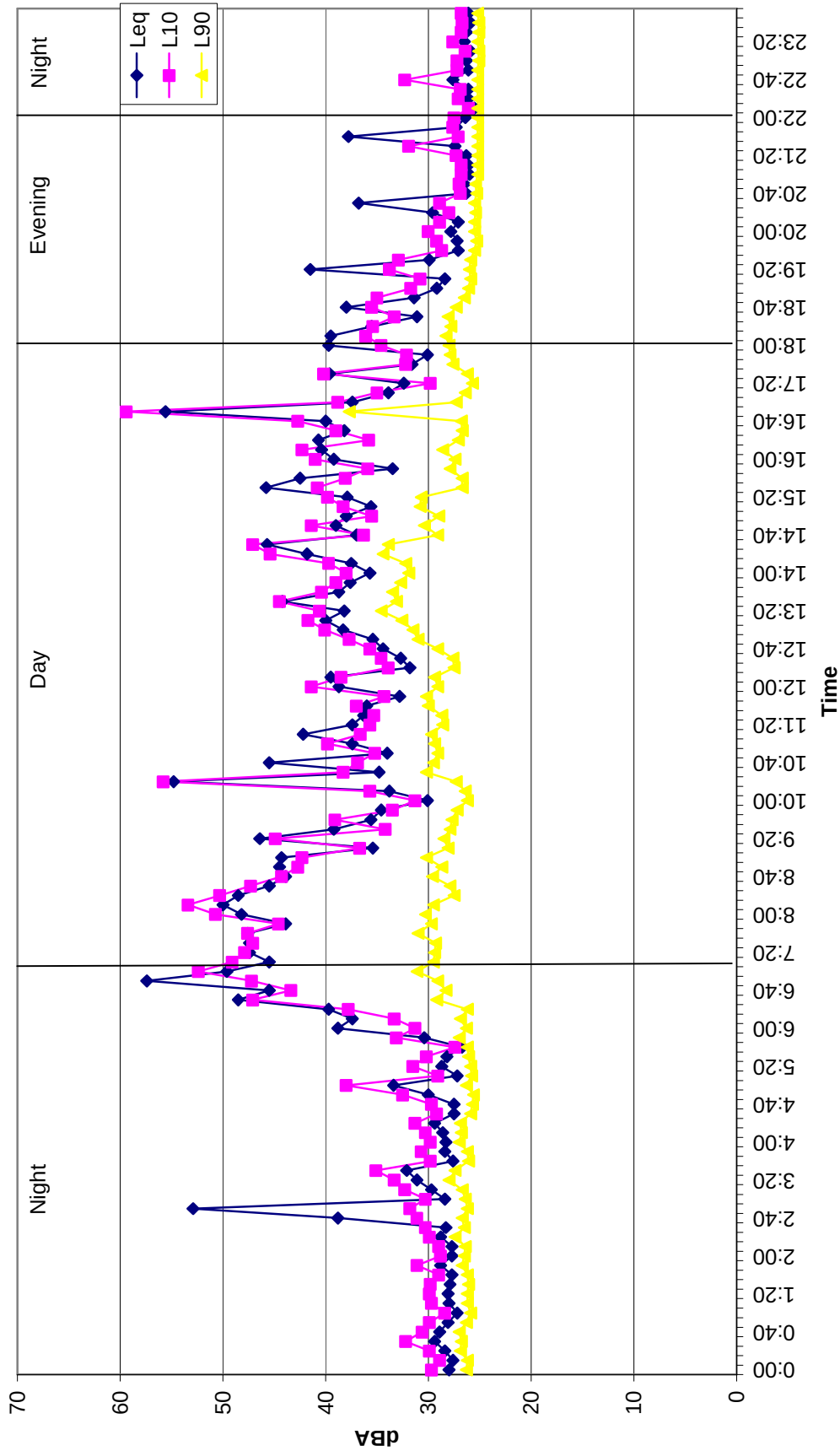
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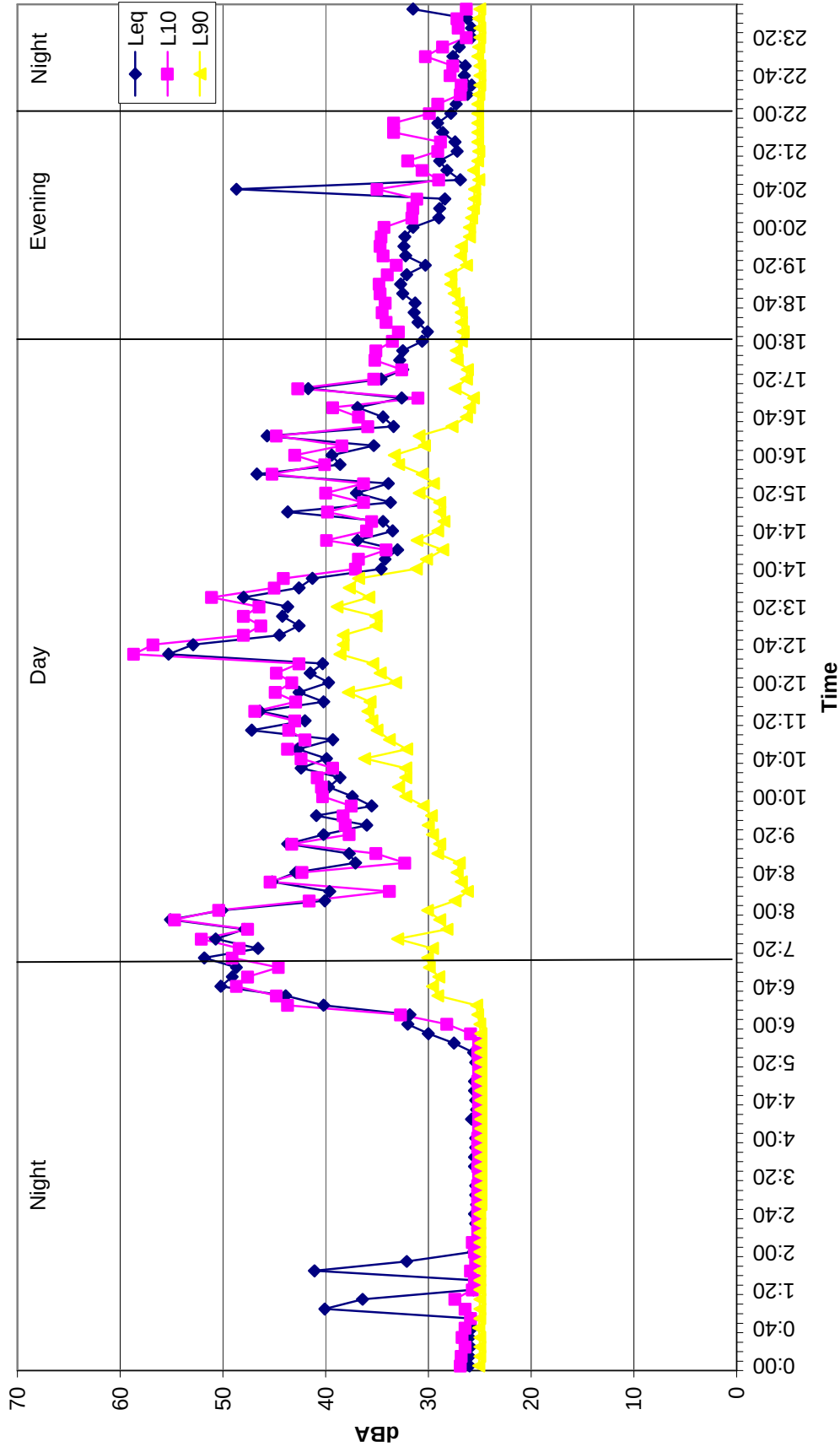
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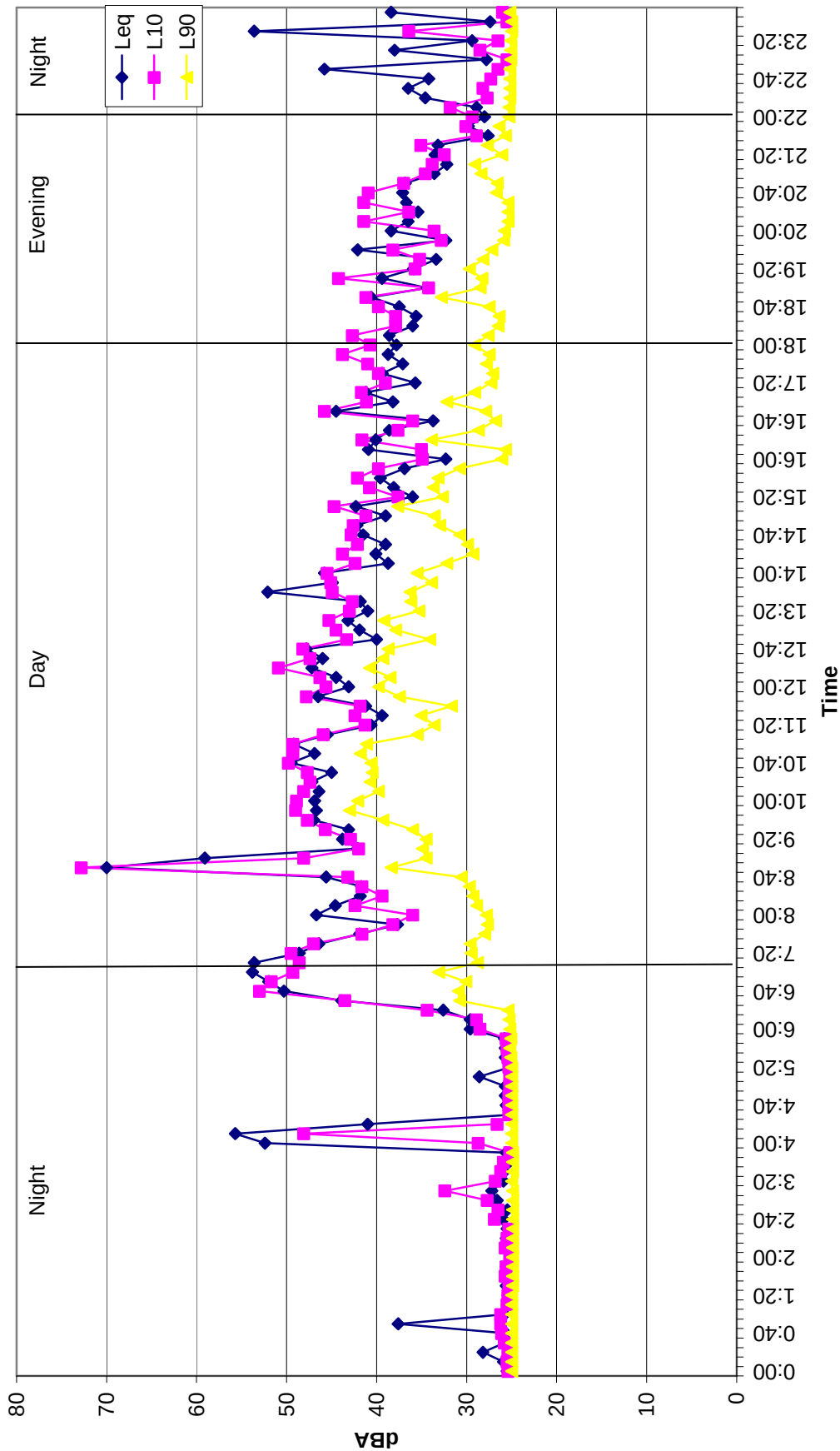
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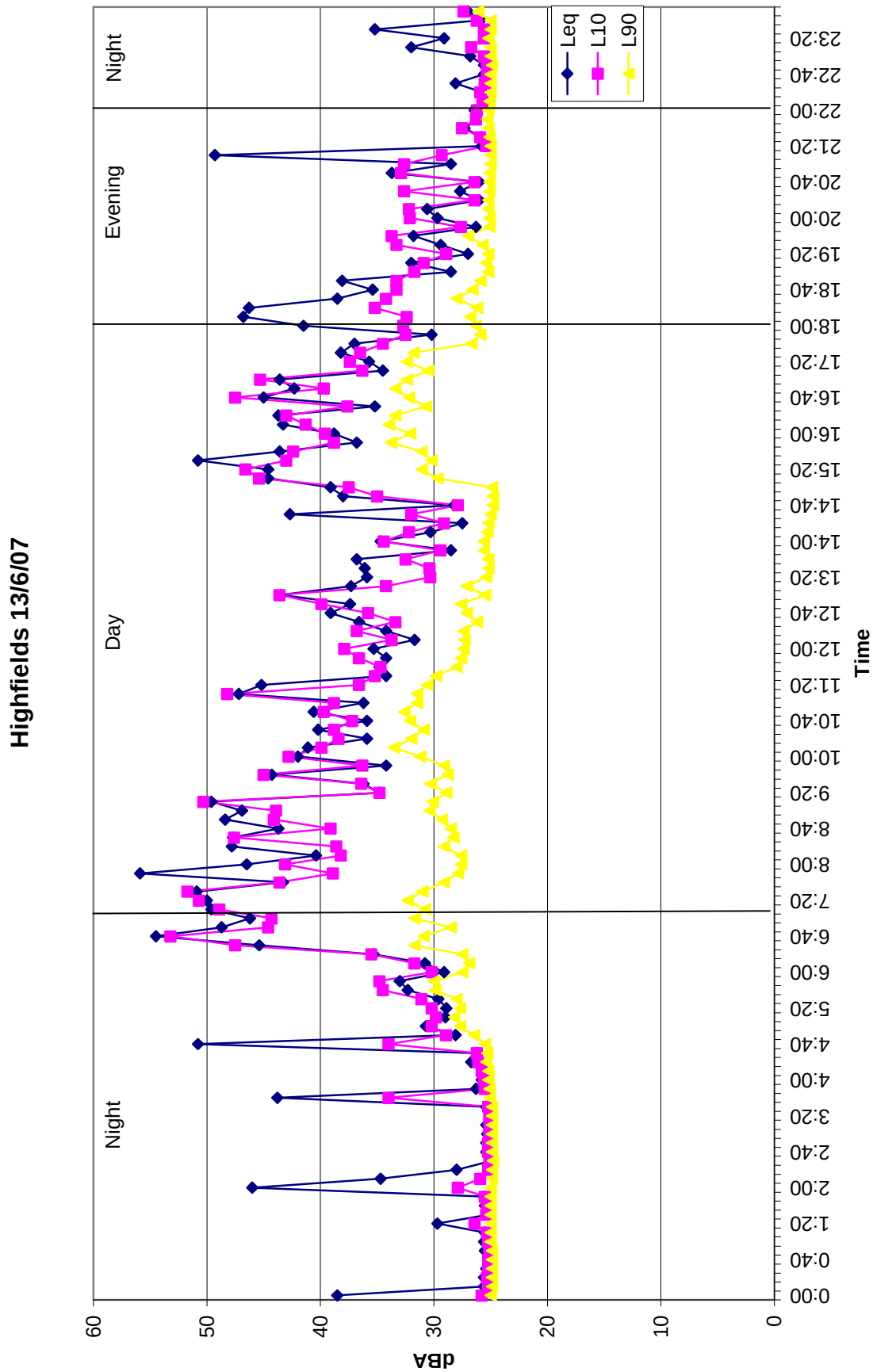


Highfields 11/6/07

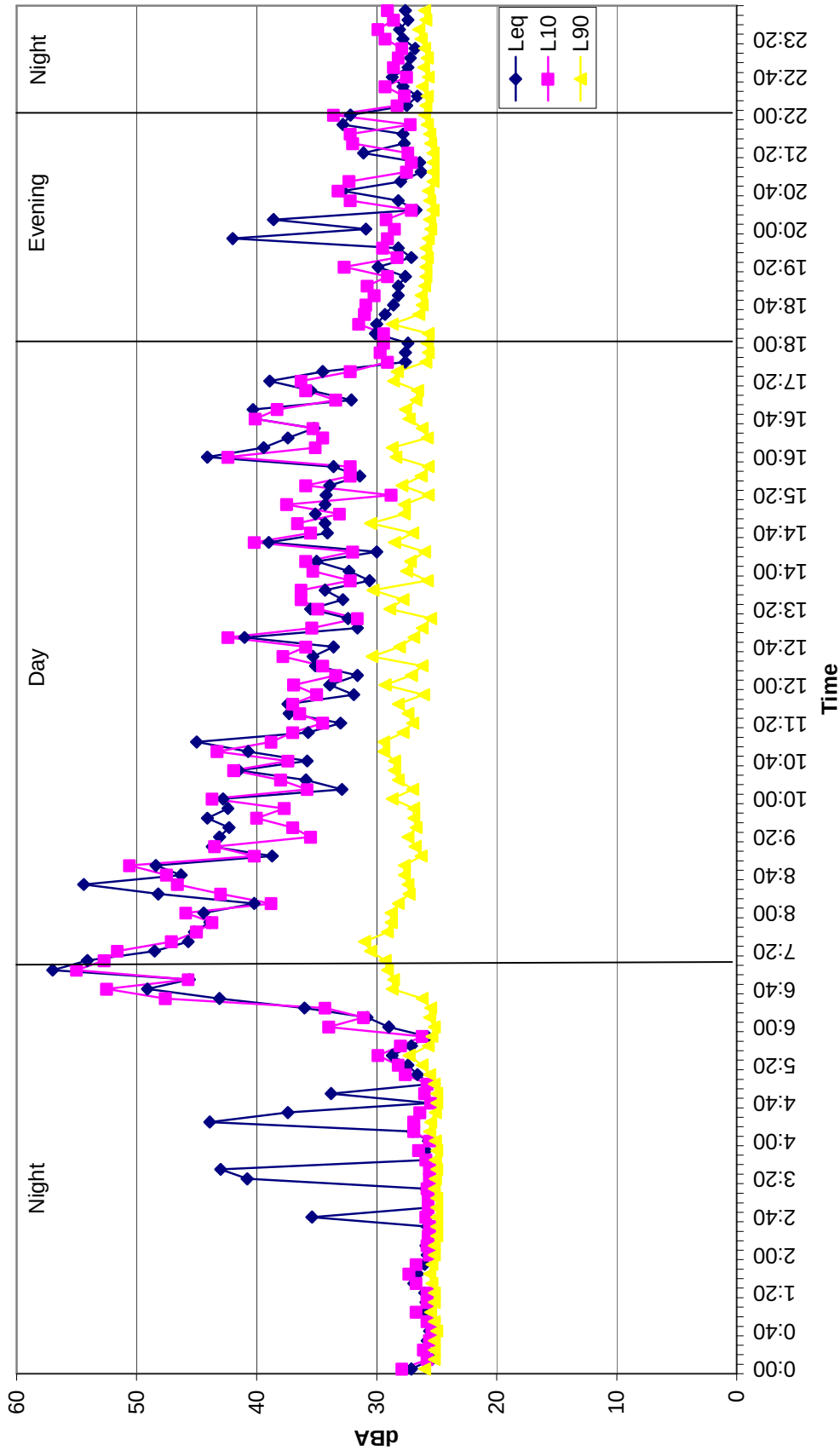


Highfields 12/6/07

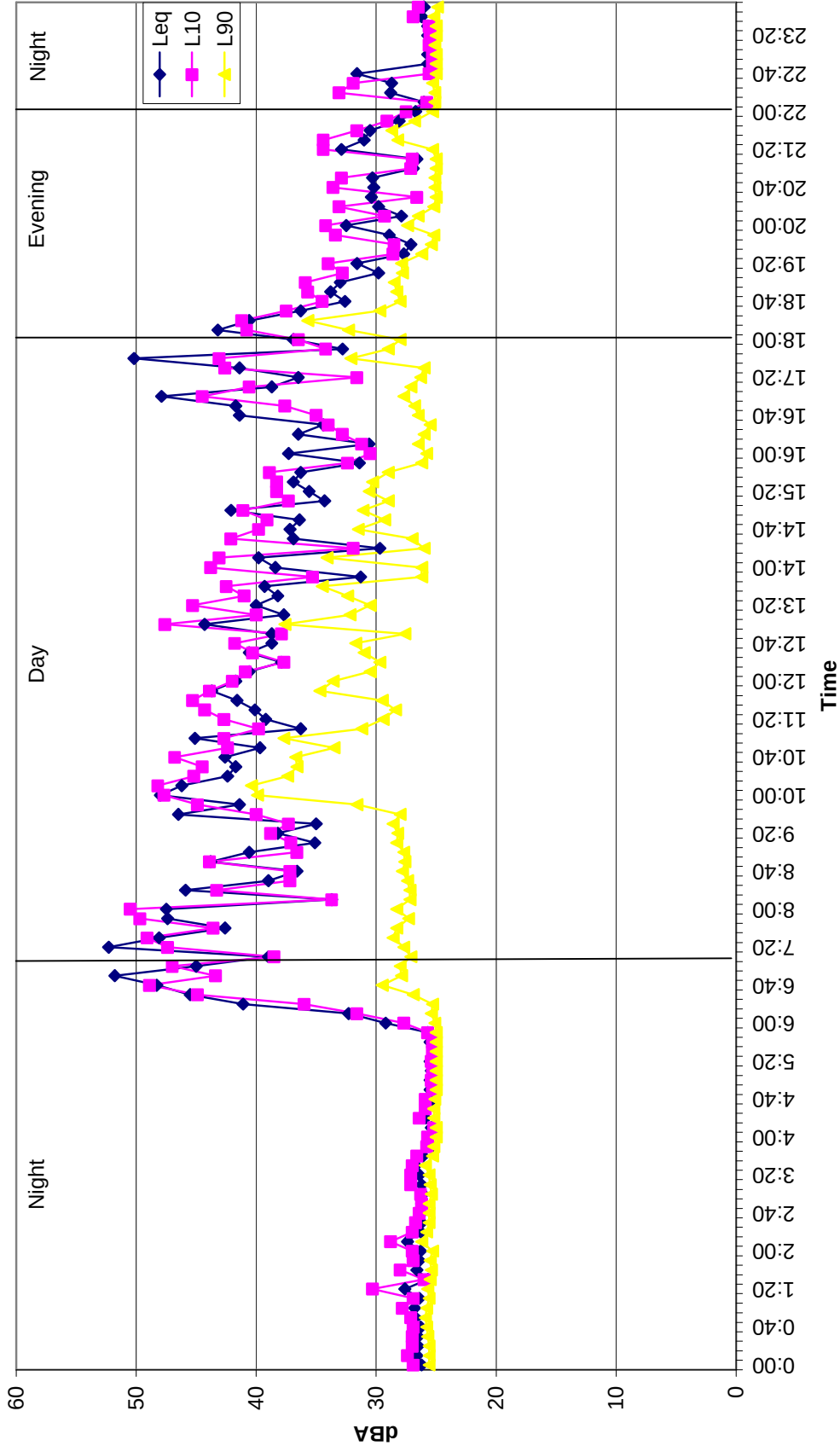




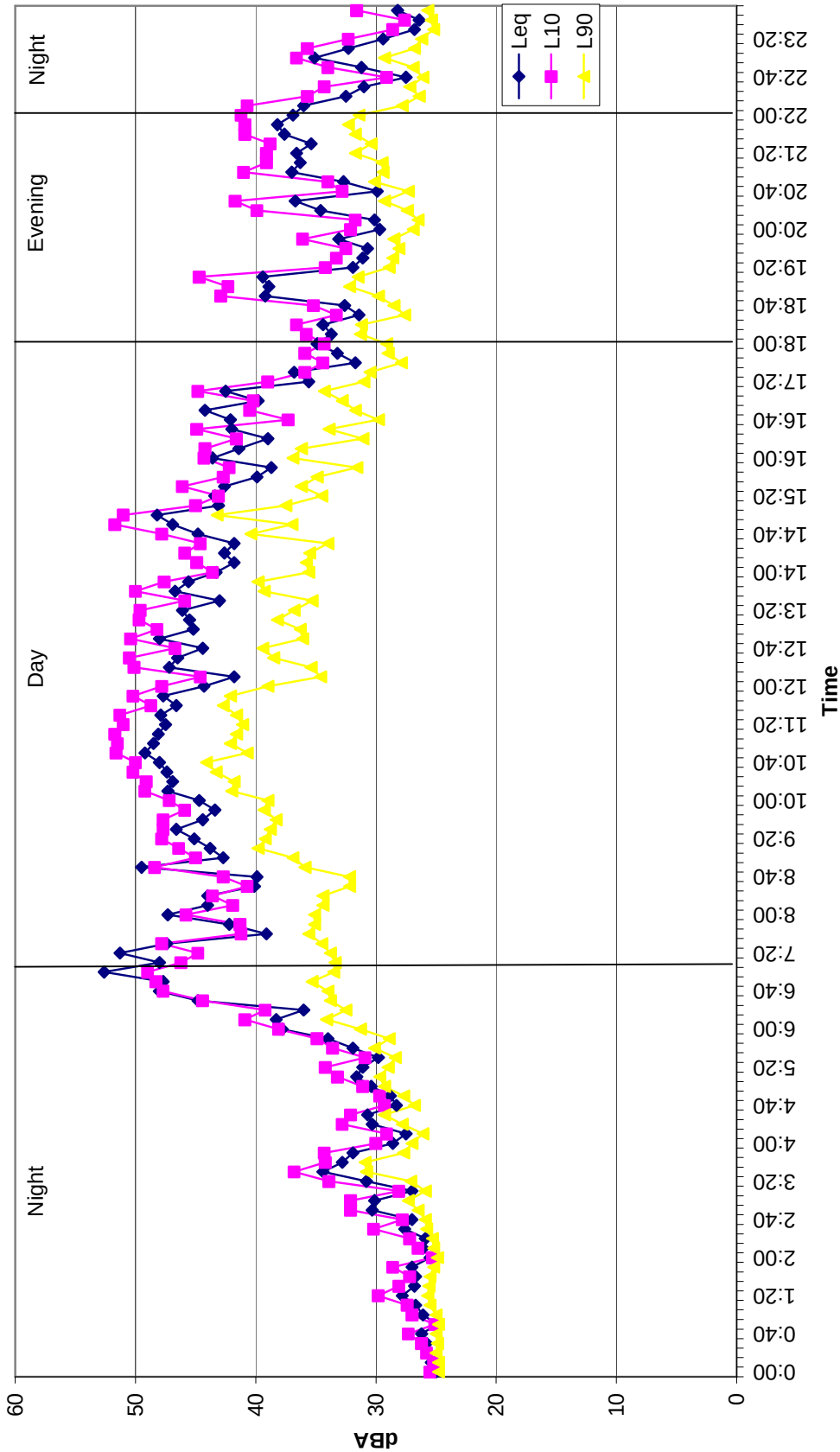
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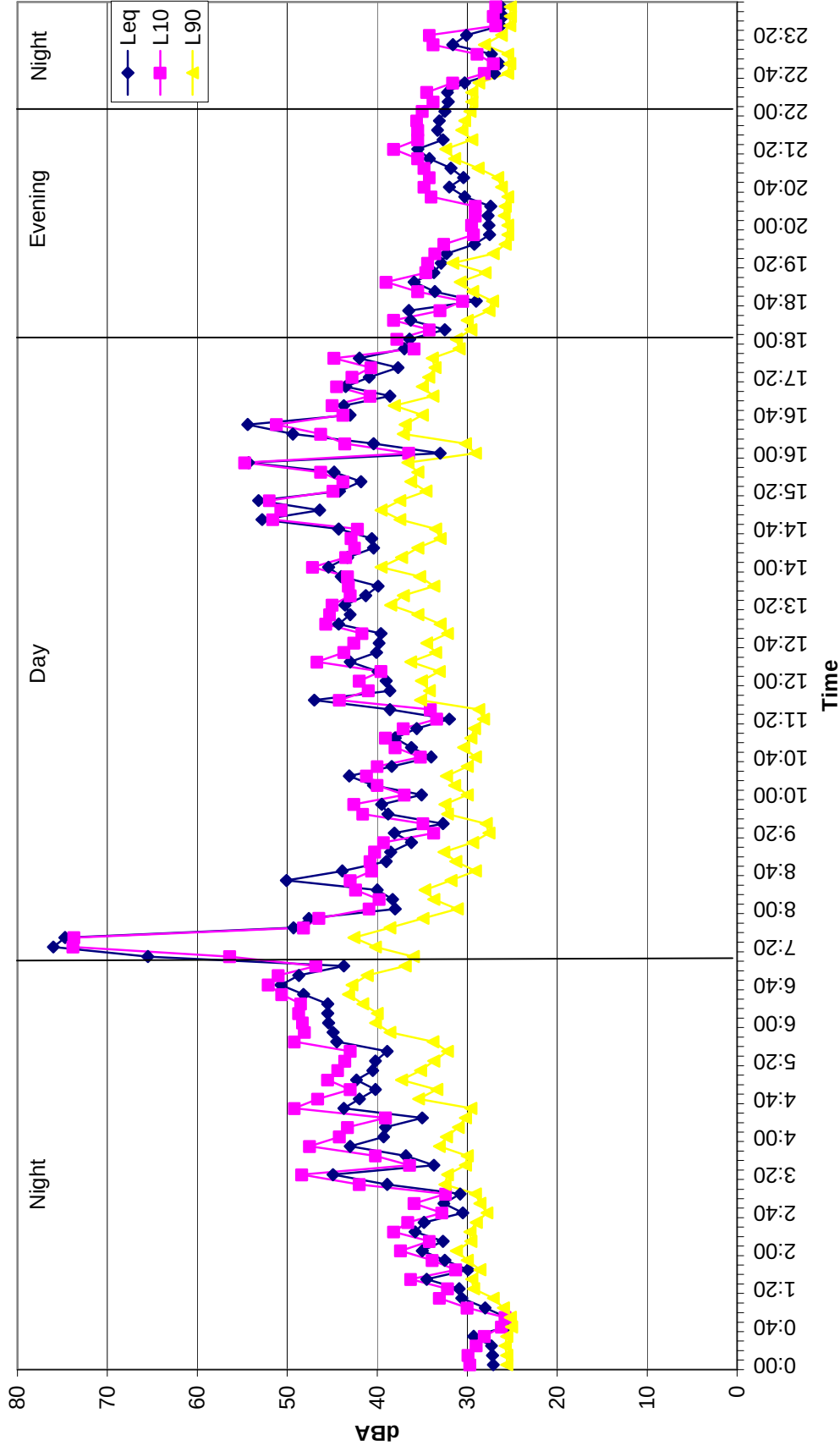
Highfields 15/6/07



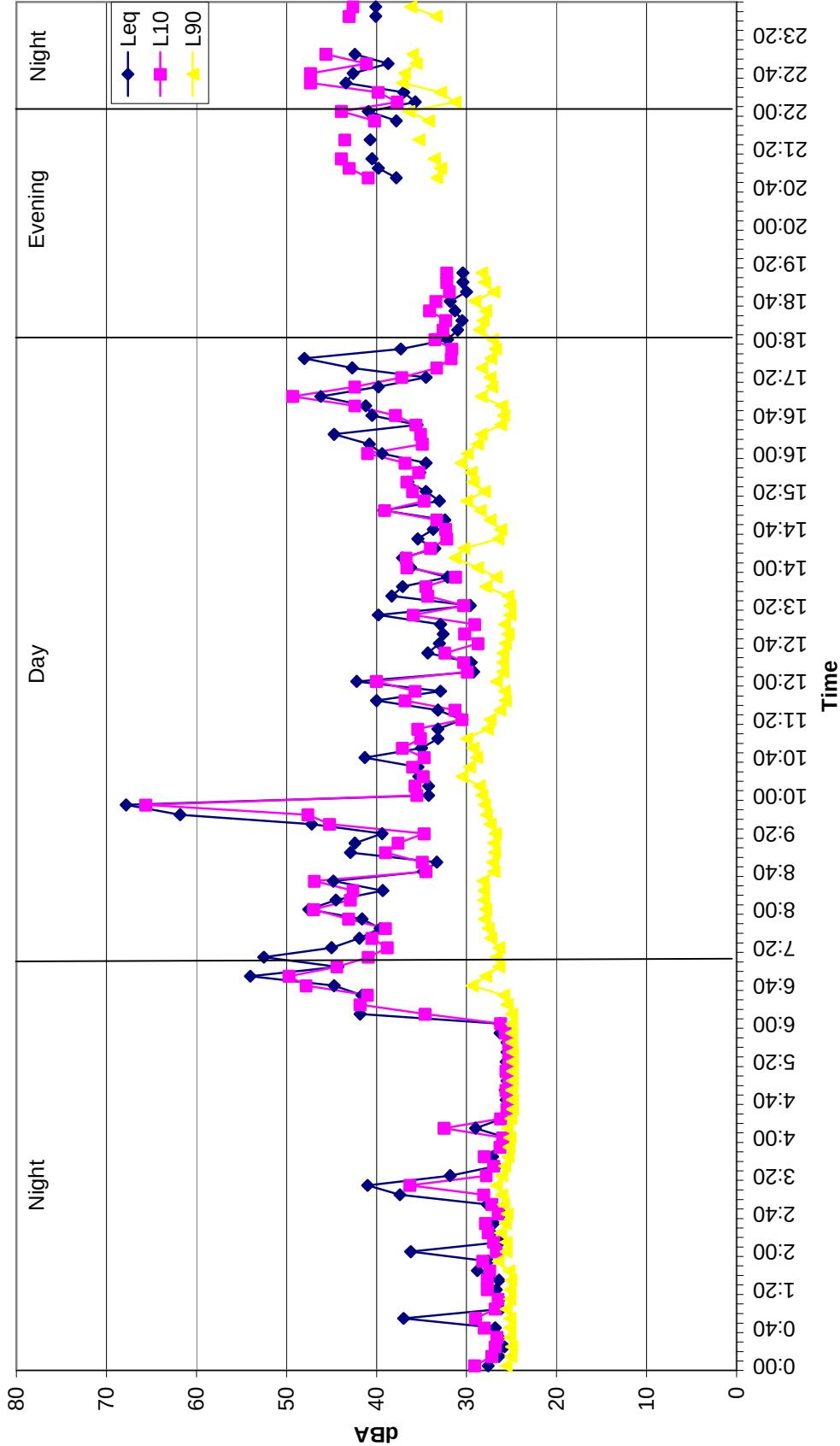
Highfields 16/6/07



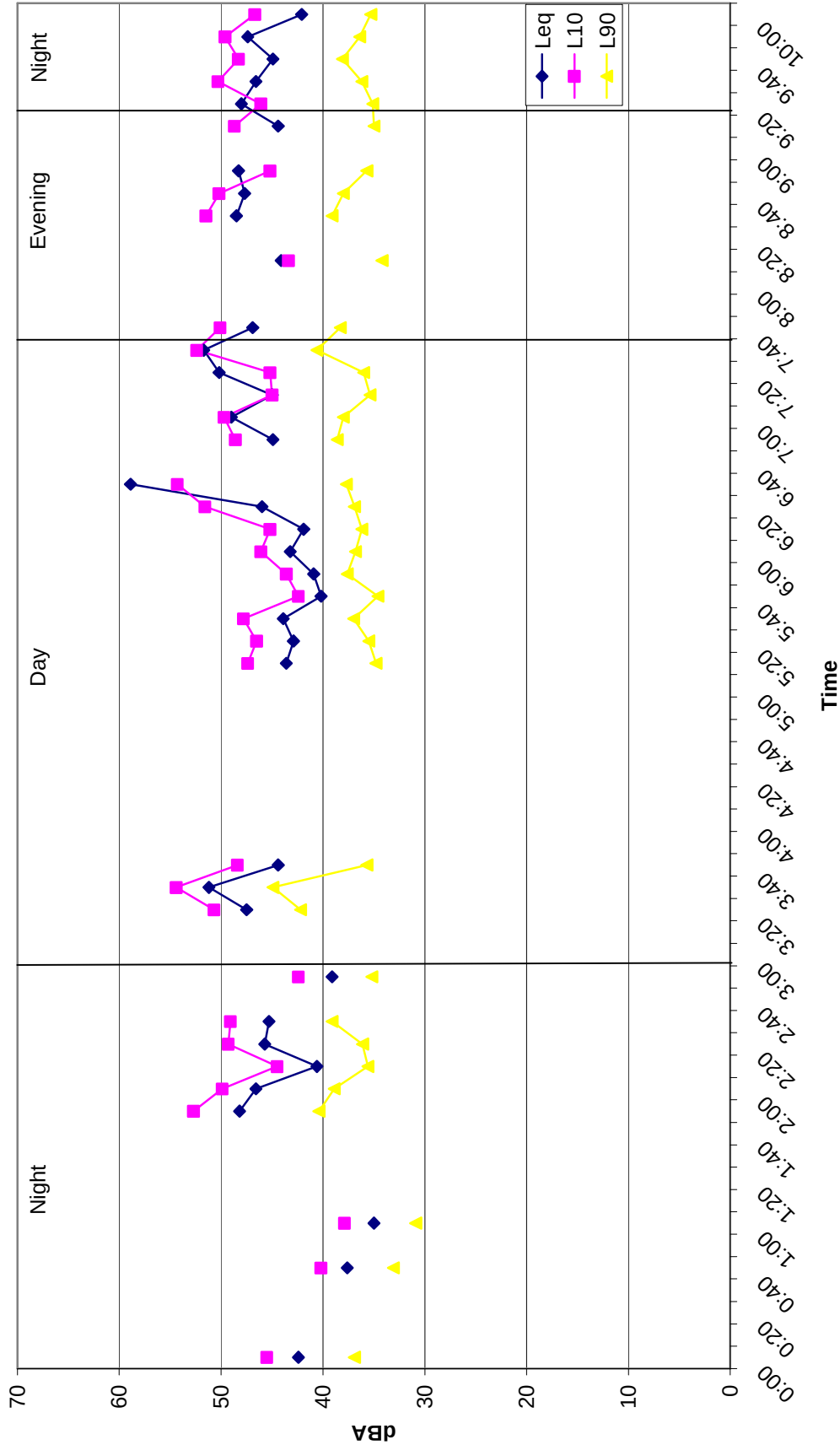
Highfields 17/6/07



Highfields 18/6/07



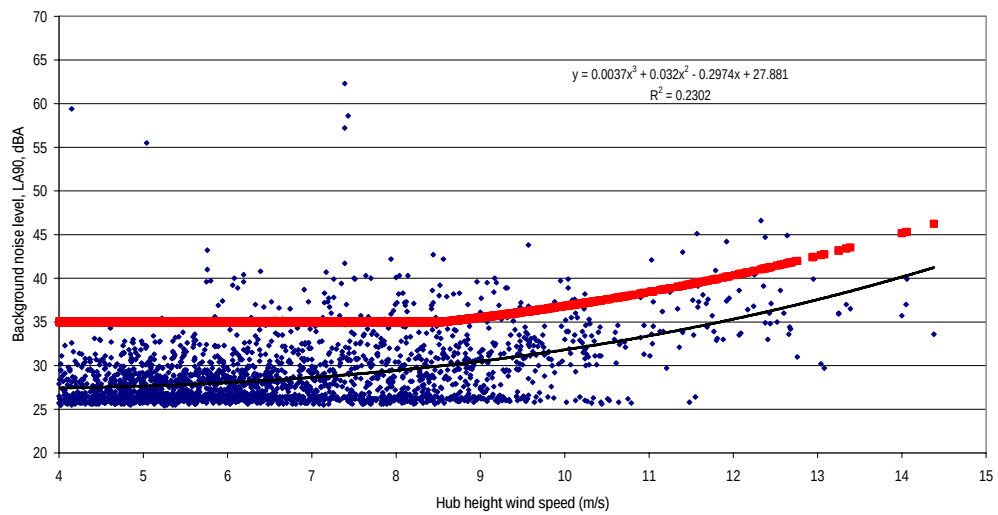
Highfields 19/6/07



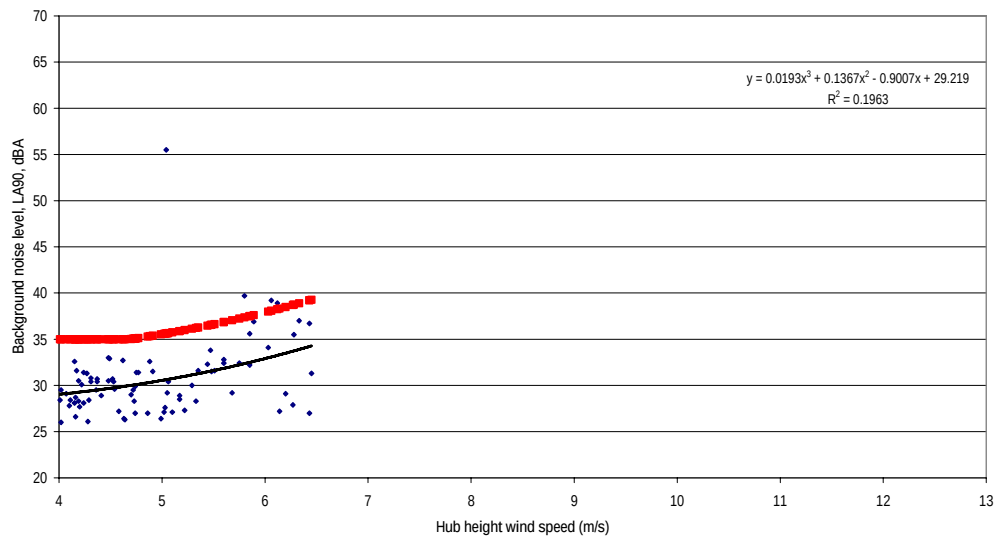
Appendix D

Noise Regression and Criterion Curves

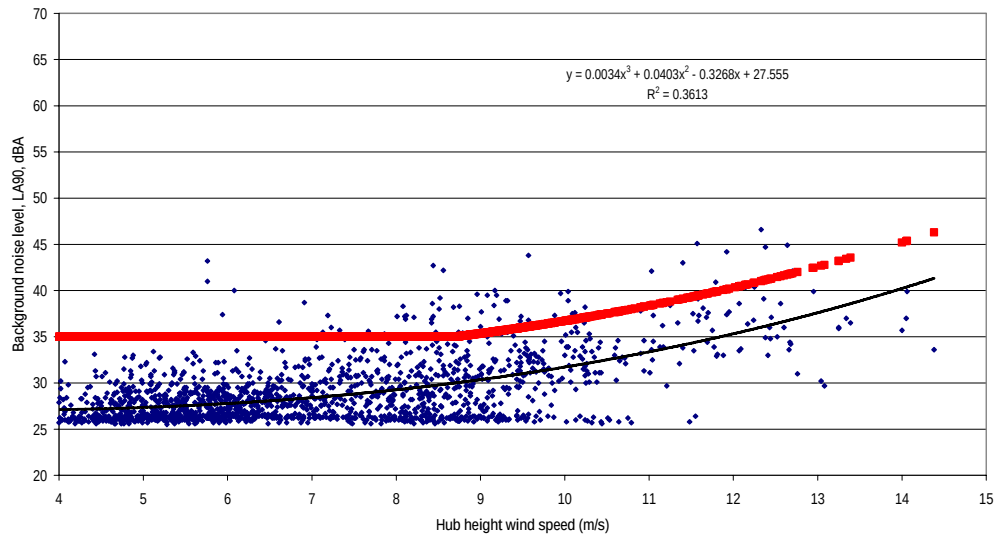
Background noise versus hub height wind speed at Eungai
3128 points



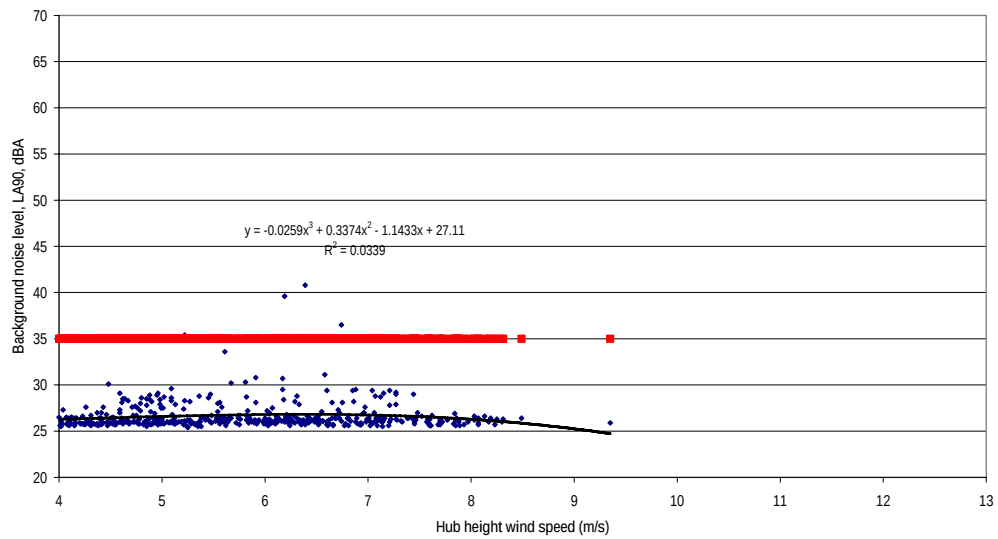
Background noise versus hub height wind speed at Eungai
Stability Category B



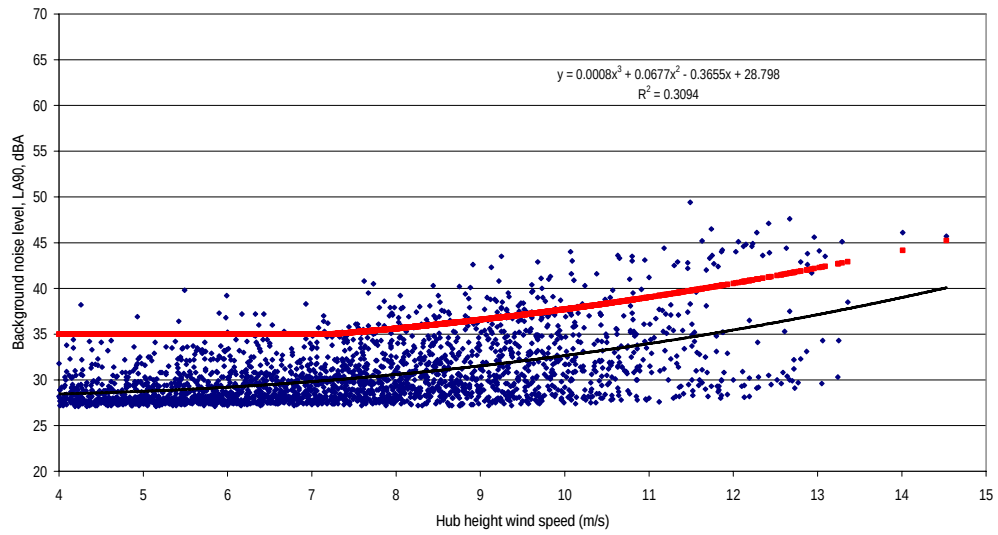
Background noise versus hub height wind speed at Eungai
Stability Category D



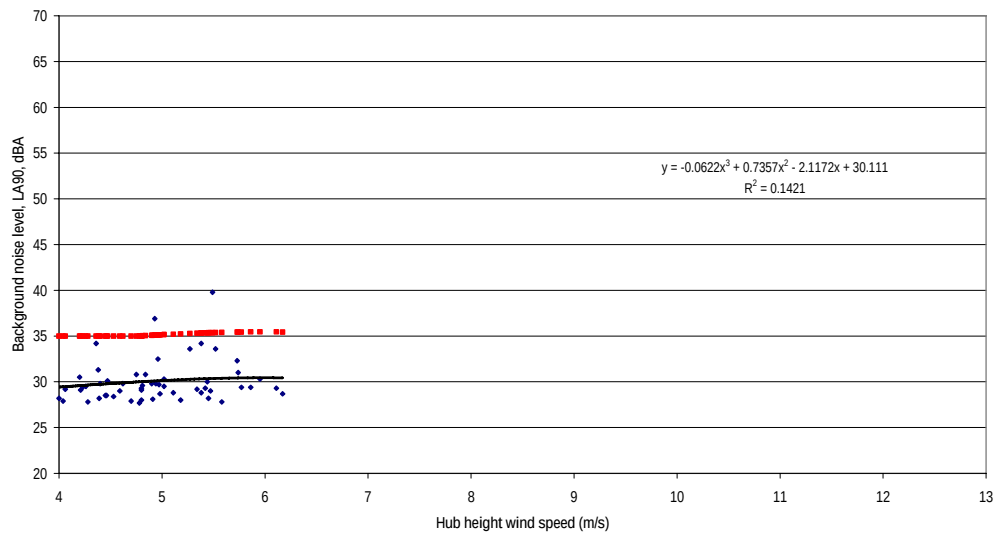
Background noise versus hub height wind speed at Eungai
Stability Category E



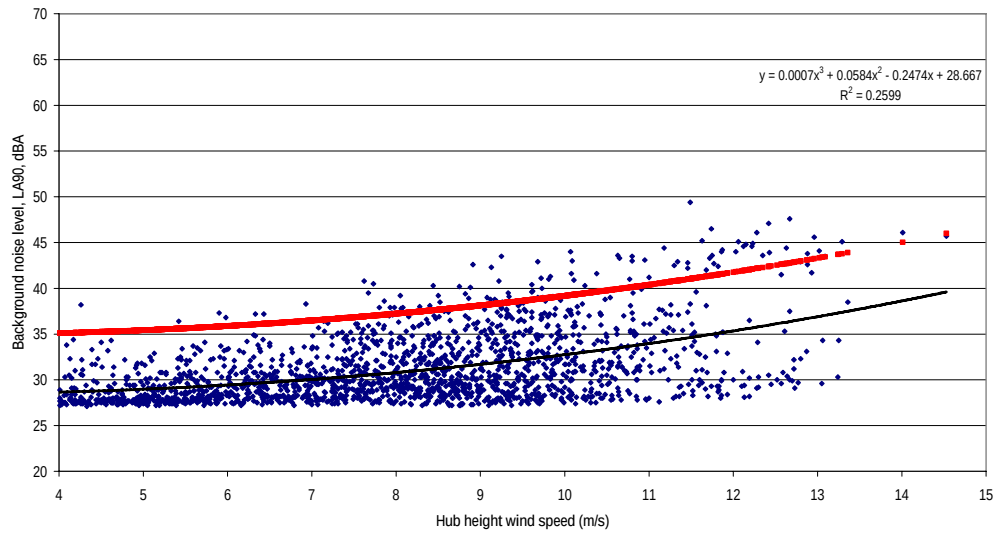
Background noise versus hub height wind speed for Glengyle
3135 points



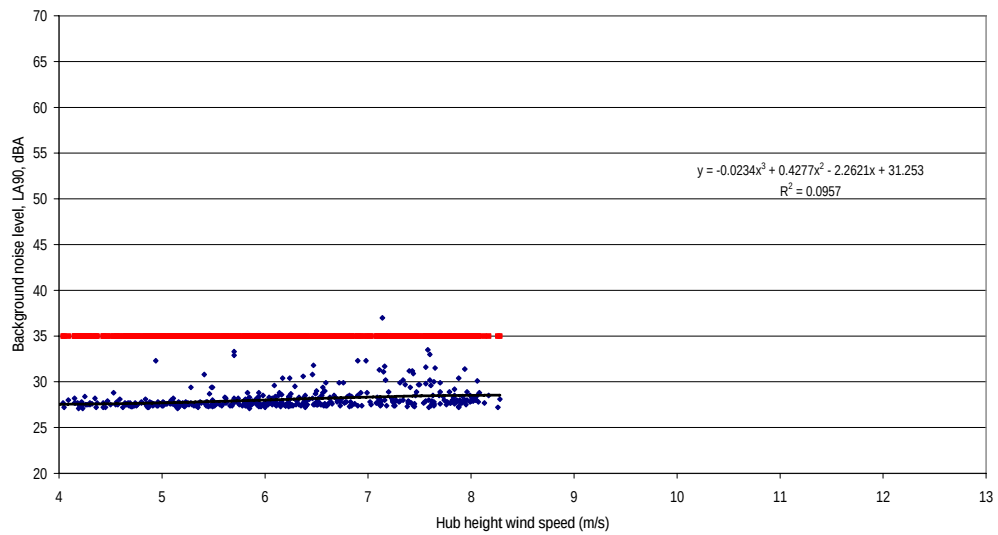
Background noise versus hub height wind speed for Glengyle
Stability Criterion B



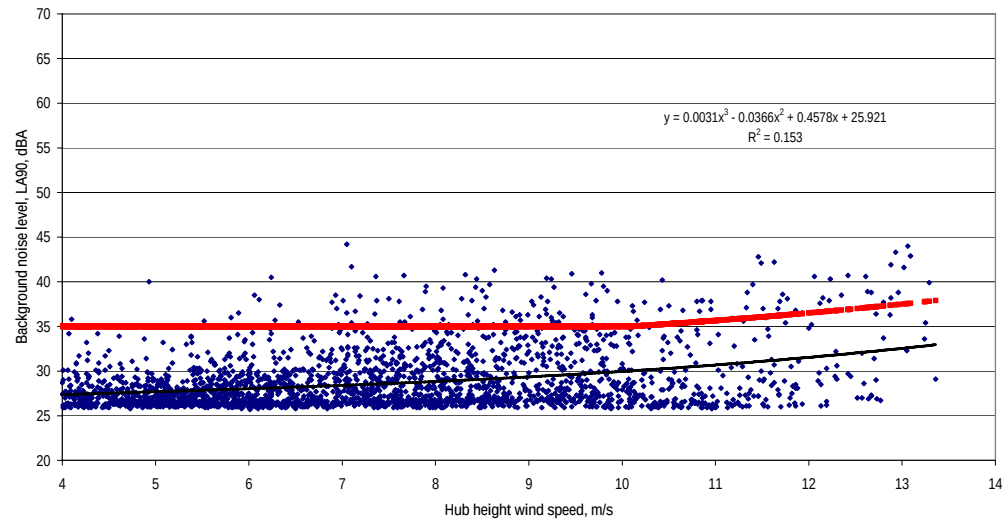
Background noise versus hub height wind speed for Glengyle
Stability Criterion D



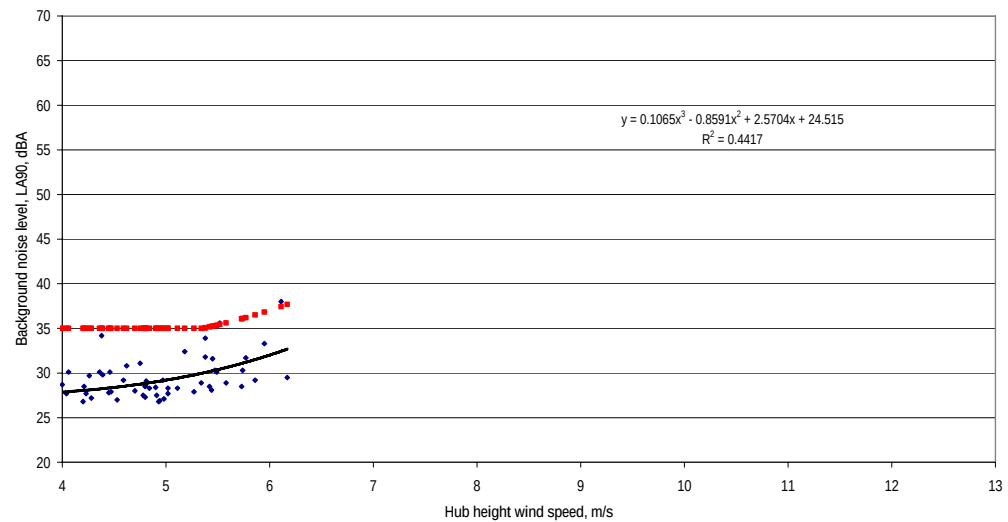
Background noise versus hub height wind speed for Glengyle
Stability Criterion E



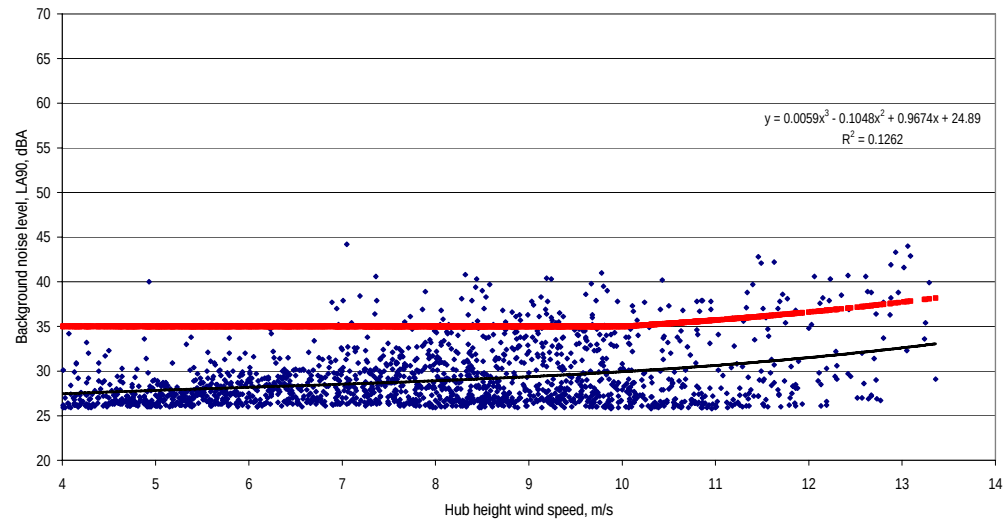
Background noise versus hub height wind speed at Rose Hill B
3012 points



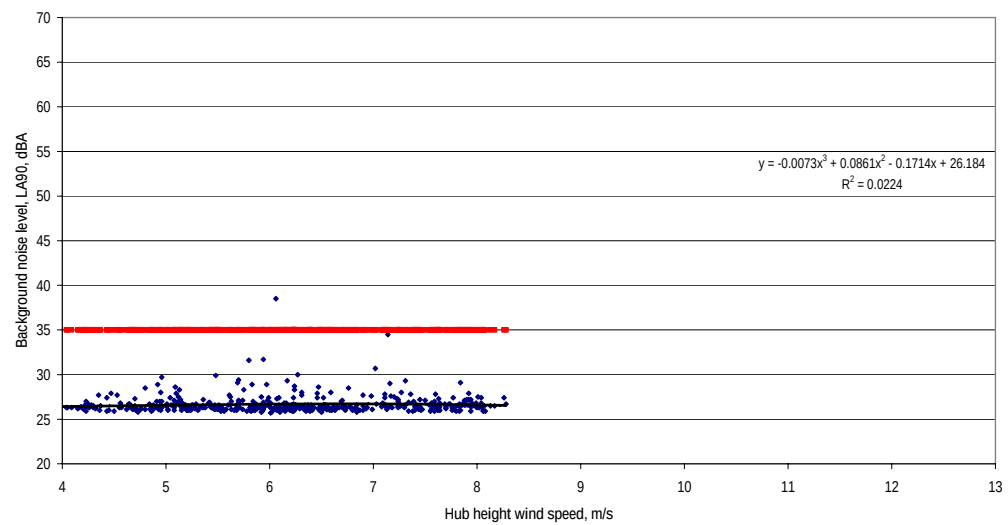
Background noise versus hub height wind speed at Rose Hill B
Stability Criterion B



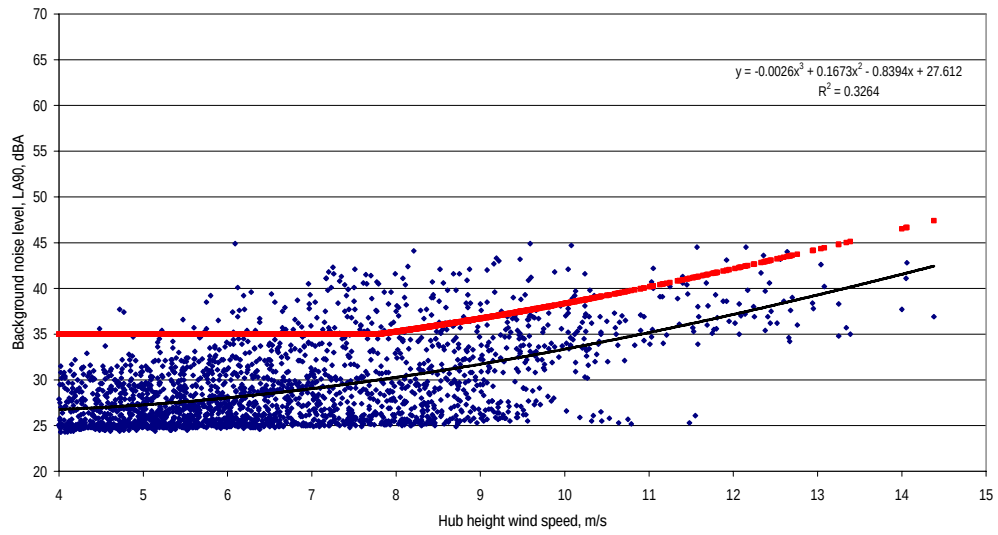
Background noise versus hub height wind speed at Rose Hill B
Stability Criterion D



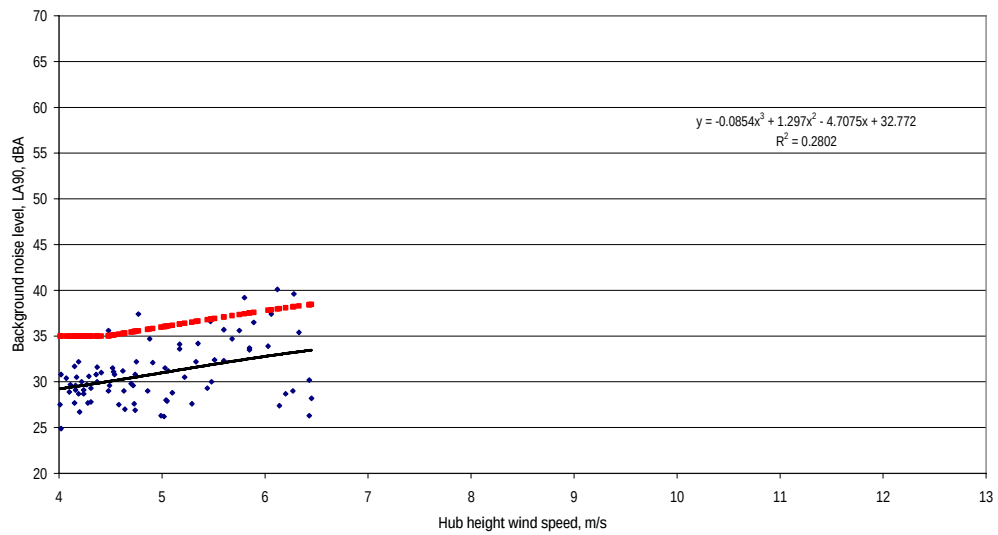
Background noise versus hub height wind speed at Rose Hill B
Stability Criterion E



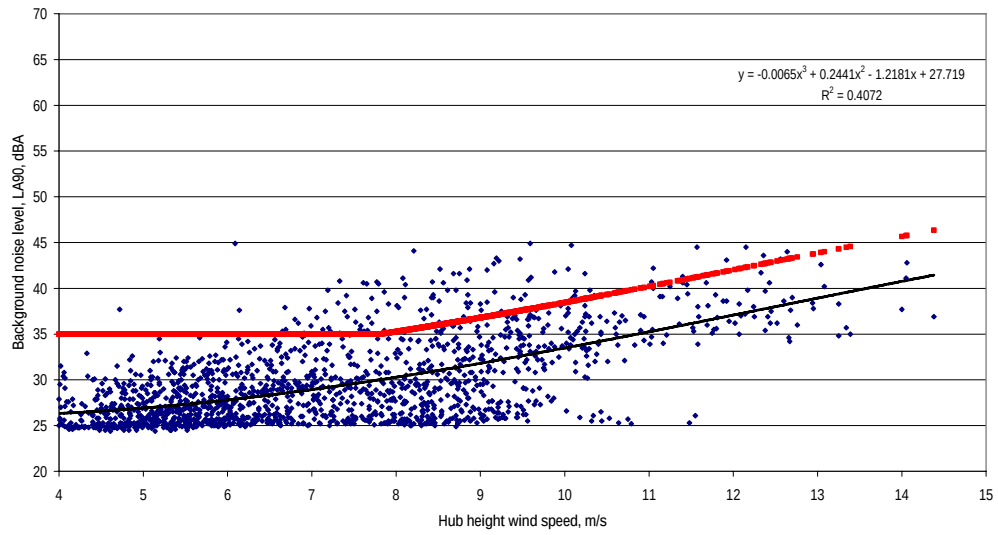
Background noise versus hub height wind at Highfields
3005 points



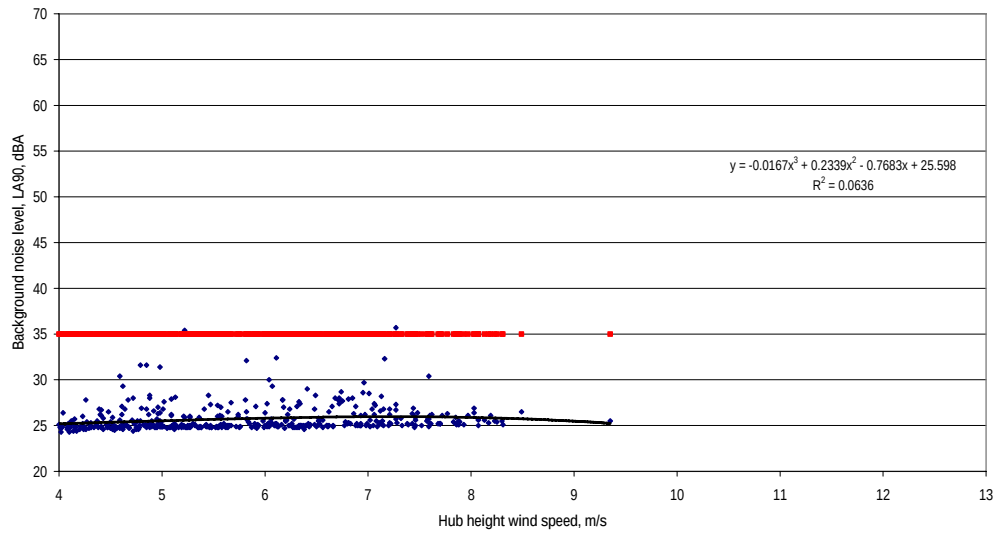
Background noise versus hub height wind at Highfields
Stability Criterion B



Background noise versus hub height wind at Highfields
Stability Criterion D



Background noise versus hub height wind at Highfields
Stability Criterion E



Appendix E

Noise Curves [Ref 1]

2.3 Estimated Noise Curves V90 - 3.0 MW

2.3.1 Estimated noise curve V90 - 3.0 MW, 50 Hz, mode 0 - 109.4 dB (A)

Sound Power Level at Hub Height: Noise mode 0		
Conditions for Sound Power Level:	Measurement standard IEC 61400-11 ed. 2 2002 Wind shear: 0.16 Max. turbulence at 10 meter height: 16% Inflow angle (vertical): $0 \pm 2^\circ$ Air density: 1.225 kg/m^3	
Hub Height	80m	105m
L_{WA} @ 4 m/s (10 m above ground) [dBA]	97.0	98.2
Wind speed at hh [m/sec]	5.6	5.8
L_{WA} @ 5 m/s (10 m above ground) [dBA]	102	103.0
Wind speed at hh [m/sec]	7.0	7.3
L_{WA} @ 6 m/s (10 m above ground) [dBA]	105.8	106.5
Wind speed at hh [m/sec]	8.4	8.7
L_{WA} @ 7 m/s (10 m above ground) [dBA]	108.2	108.6
Wind speed at hh [m/sec]	9.8	10.2
L_{WA} @ 8 m/s (10 m above ground) [dBA]	109.3	109.4
Wind speed at hh [m/sec]	11.2	11.7
L_{WA} @ 9 m/s (10 m above ground) [dBA]	109.4	109.0
Wind speed at hh [m/sec]	12.6	13.1
L_{WA} @ 10 m/s (10 m above ground) [dBA]	106.7	106.3
Wind speed at hh [m/sec]	14.0	14.6
L_{WA} @ 11 m/s (10 m above ground) [dBA]	105.9	105.8
Wind speed at hh [m/sec]	15.3	16.0
L_{WA} @ 12 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	16.7	17.5
L_{WA} @ 13 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	18.1	18.9

For the avoidance of doubt, this General Specification is not, and does not contain, any guarantee, warranty and/or verification of the noise emissions (including, without limitation, the noise emission verification method). Any guarantee, warranty and/or verification of the noise emissions (including, without limitation, the noise emission verification method) must be agreed to separately in writing.

2.3.2 Estimated noise curve V90 - 3.0 MW, 50 Hz, mode 1 - 107.8 dB (A)

Sound Power Level at Hub Height: Noise mode 1		
Conditions for Sound Power Level:	Measurement standard IEC 61400-11 ed. 2 2002 Wind shear: 0.16 Max. turbulence at 10 meter height: 16% Inflow angle (vertical): $0 \pm 2^\circ$ Air density: 1.225 kg/m ³	
Hub Height	80m	105m
L _{WA} @ 4 m/s (10 m above ground) [dBA]	97.0	98.2
Wind speed at hh [m/sec]	5.6	5.8
L _{WA} @ 5 m/s (10 m above ground) [dBA]	102	103.0
Wind speed at hh [m/sec]	7.0	7.3
L _{WA} @ 6 m/s (10 m above ground) [dBA]	105.8	106.5
Wind speed at hh [m/sec]	8.4	8.7
L _{WA} @ 7 m/s (10 m above ground) [dBA]	107.7	107.8
Wind speed at hh [m/sec]	9.8	10.2
L _{WA} @ 8 m/s (10 m above ground) [dBA]	107.8	107.8
Wind speed at hh [m/sec]	11.2	11.7
L _{WA} @ 9 m/s (10 m above ground) [dBA]	107.8	107.7
Wind speed at hh [m/sec]	12.6	13.1
L _{WA} @ 10 m/s (10 m above ground) [dBA]	106.7	106.3
Wind speed at hh [m/sec]	14.0	14.6
L _{WA} @ 11 m/s (10 m above ground) [dBA]	105.9	105.8
Wind speed at hh [m/sec]	15.3	16.0
L _{WA} @ 12 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	16.7	17.5
L _{WA} @ 13 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	18.1	18.9

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2.3.3 Estimated noise curve V90 - 3.0 MW, 50 Hz, mode 2 - 106.8 dB (A)

Sound Power Level at Hub Height: Noise mode 2		
Conditions for Sound Power Level:	Measurement standard IEC 61400-11 ed. 2 2002 Wind shear: 0.16 Max. turbulence at 10 meter height: 16% Inflow angle (vertical): $0 \pm 2^\circ$ Air density: 1.225 kg/m ³	
Hub Height	80m	105m
L _{WA} @ 4 m/s (10 m above ground) [dBA]	97.0	98.2
Wind speed at hh [m/sec]	5.6	5.8
L _{WA} @ 5 m/s (10 m above ground) [dBA]	102	103.0
Wind speed at hh [m/sec]	7.0	7.3
L _{WA} @ 6 m/s (10 m above ground) [dBA]	105.6	106.3
Wind speed at hh [m/sec]	8.4	8.7
L _{WA} @ 7 m/s (10 m above ground) [dBA]	106.8	106.8
Wind speed at hh [m/sec]	9.8	10.2
L _{WA} @ 8 m/s (10 m above ground) [dBA]	106.8	106.8
Wind speed at hh [m/sec]	11.2	11.7
L _{WA} @ 9 m/s (10 m above ground) [dBA]	106.8	106.8
Wind speed at hh [m/sec]	12.6	13.1
L _{WA} @ 10 m/s (10 m above ground) [dBA]	106.8	106.3
Wind speed at hh [m/sec]	14.0	14.6
L _{WA} @ 11 m/s (10 m above ground) [dBA]	105.9	105.8
Wind speed at hh [m/sec]	15.3	16.0
L _{WA} @ 12 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	16.7	17.5
L _{WA} @ 13 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	18.1	18.9

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2.3.4 Estimated noise curve V90 - 3.0 MW, 50 Hz, mode 3 - 104.4 dB (A)

Sound Power Level at Hub Height: Noise mode 3		
Conditions for Sound Power Level:	Measurement standard IEC 61400-11 ed. 2 2002 Wind shear: 0.16 Max. turbulence at 10 meter height: 16% Inflow angle (vertical): $0 \pm 2^\circ$ Air density: 1.225 kg/m^3	
Hub Height	80m	105m
L _{WA} @ 4 m/s (10 m above ground) [dBA]	97.0	98.2
Wind speed at hh [m/sec]	5.6	5.8
L _{WA} @ 5 m/s (10 m above ground) [dBA]	102.0	102.9
Wind speed at hh [m/sec]	7.0	7.3
L _{WA} @ 6 m/s (10 m above ground) [dBA]	104.4	104.4
Wind speed at hh [m/sec]	8.4	8.7
L _{WA} @ 7 m/s (10 m above ground) [dBA]	104.4	104.4
Wind speed at hh [m/sec]	9.8	10.2
L _{WA} @ 8 m/s (10 m above ground) [dBA]	104.4	104.4
Wind speed at hh [m/sec]	11.2	11.7
L _{WA} @ 9 m/s (10 m above ground) [dBA]	104.4	104.4
Wind speed at hh [m/sec]	12.6	13.1
L _{WA} @ 10 m/s (10 m above ground) [dBA]	104.4	104.4
Wind speed at hh [m/sec]	14.0	14.6
L _{WA} @ 11 m/s (10 m above ground) [dBA]	104.9	105.8
Wind speed at hh [m/sec]	15.3	16.0
L _{WA} @ 12 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	16.7	17.5
L _{WA} @ 13 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	18.1	18.9

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2.3.5 Estimated noise curve V90 - 3.0 MW, 50 Hz, mode 4 - 102.8 dB (A)

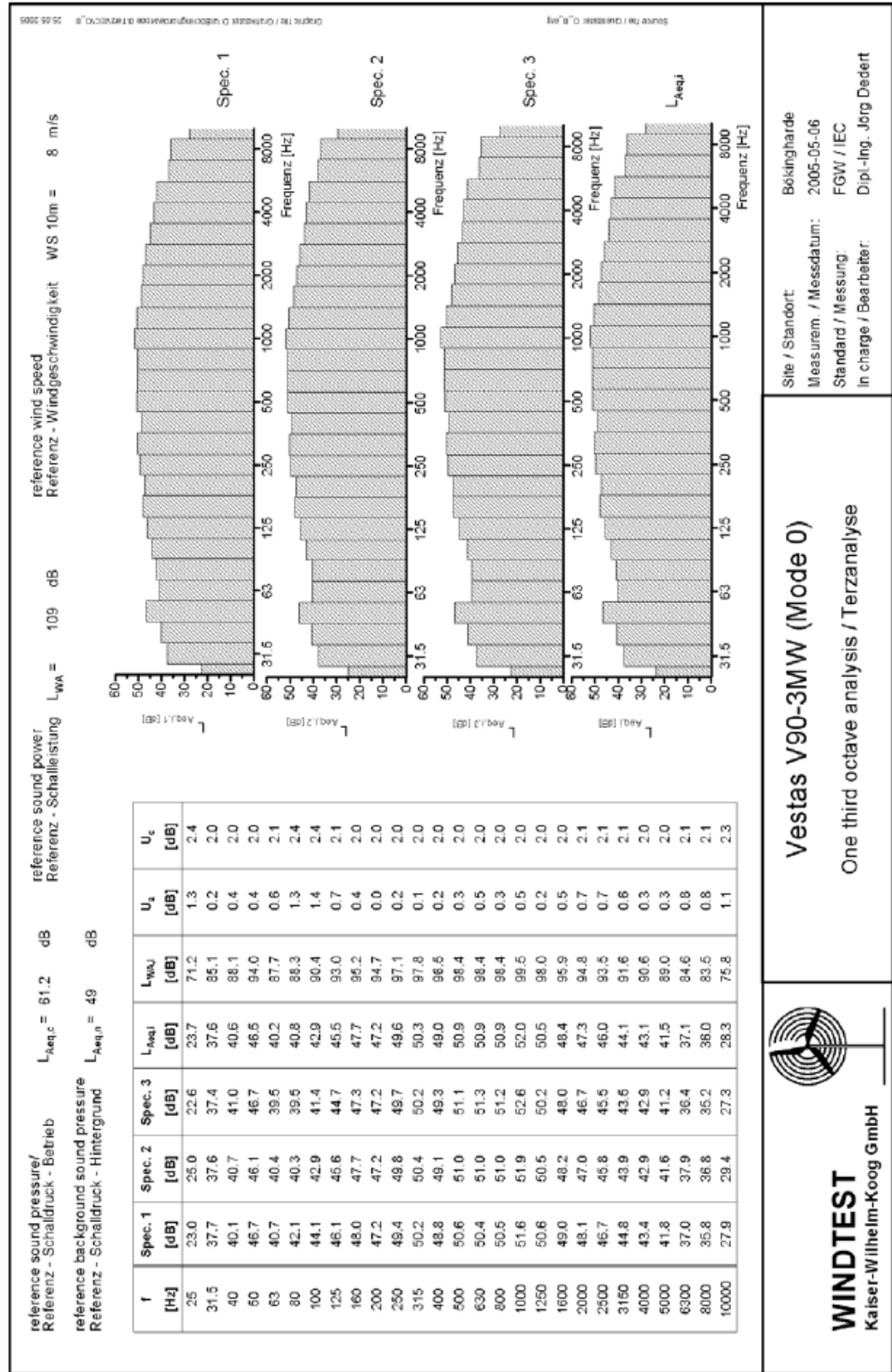
Sound Power Level at Hub Height: Noise mode 4		
Conditions for Sound Power Level:	Measurement standard IEC 61400-11 ed. 2 2002 Wind shear: 0.16 Max. turbulence at 10 meter height: 16% Inflow angle (vertical): $0 \pm 2^\circ$ Air density: 1.225 kg/m^3	
Hub Height	80m	105m
L_{wA} @ 4 m/s (10 m above ground) [dBA]	97.0	98.2
Wind speed at hh [m/sec]	5.6	5.8
L_{wA} @ 5 m/s (10 m above ground) [dBA]	102.0	102.4
Wind speed at hh [m/sec]	7.0	7.3
L_{wA} @ 6 m/s (10 m above ground) [dBA]	102.8	102.8
Wind speed at hh [m/sec]	8.4	8.7
L_{wA} @ 7 m/s (10 m above ground) [dBA]	102.8	102.8
Wind speed at hh [m/sec]	9.8	10.2
L_{wA} @ 8 m/s (10 m above ground) [dBA]	102.8	102.8
Wind speed at hh [m/sec]	11.2	11.7
L_{wA} @ 9 m/s (10 m above ground) [dBA]	102.8	102.8
Wind speed at hh [m/sec]	12.6	13.1
L_{wA} @ 10 m/s (10 m above ground) [dBA]	102.8	102.8
Wind speed at hh [m/sec]	14.0	14.6
L_{wA} @ 11 m/s (10 m above ground) [dBA]	102.8	103.6
Wind speed at hh [m/sec]	15.3	16.0
L_{wA} @ 12 m/s (10 m above ground) [dBA]	105.0	105.7
Wind speed at hh [m/sec]	16.7	17.5
L_{wA} @ 13 m/s (10 m above ground) [dBA]	105.7	105.7
Wind speed at hh [m/sec]	18.1	18.9

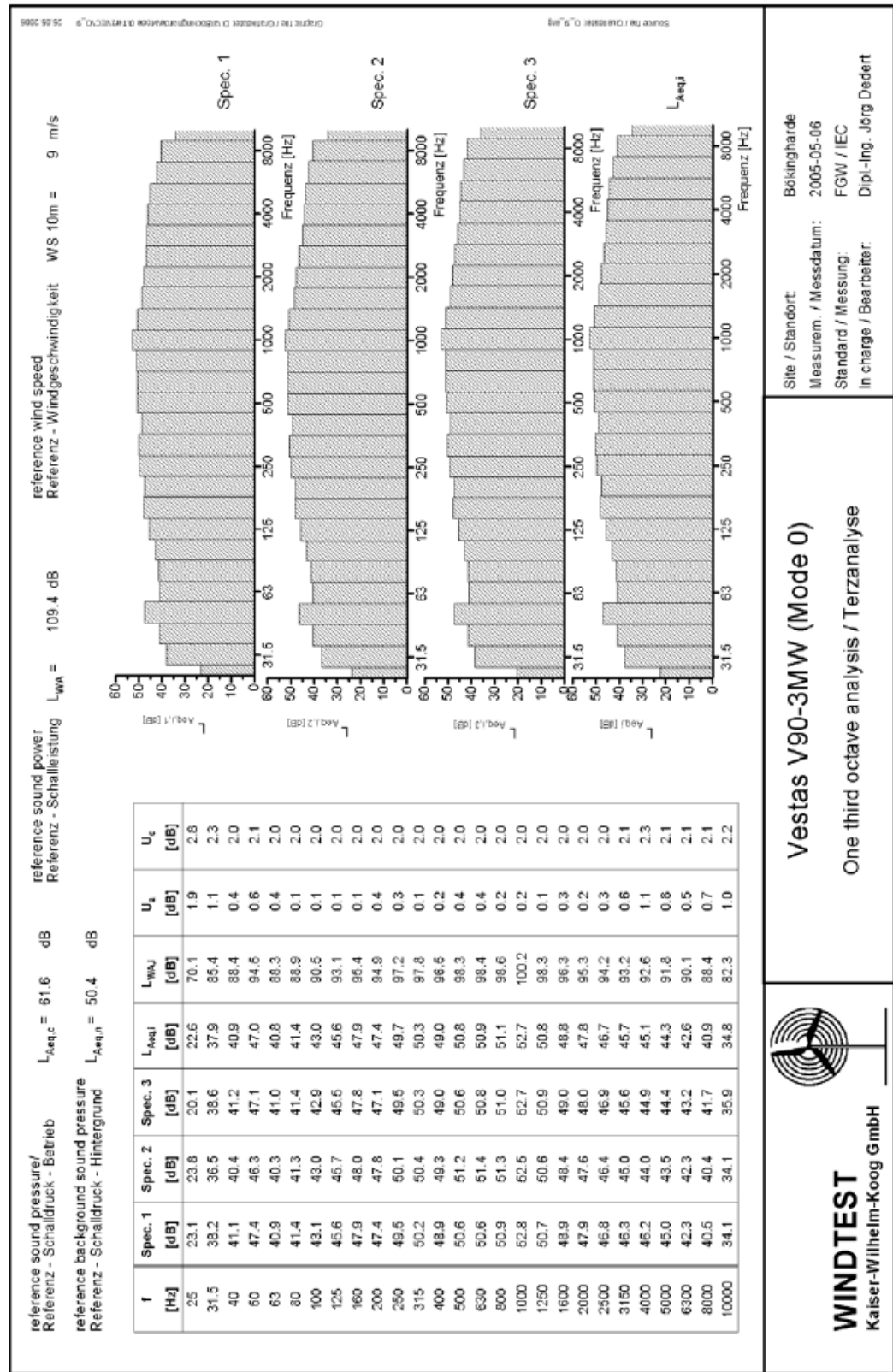
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Spectral Noise Data at Various Wind Speeds (at 10 meters) for Mode 0 [Ref 2]

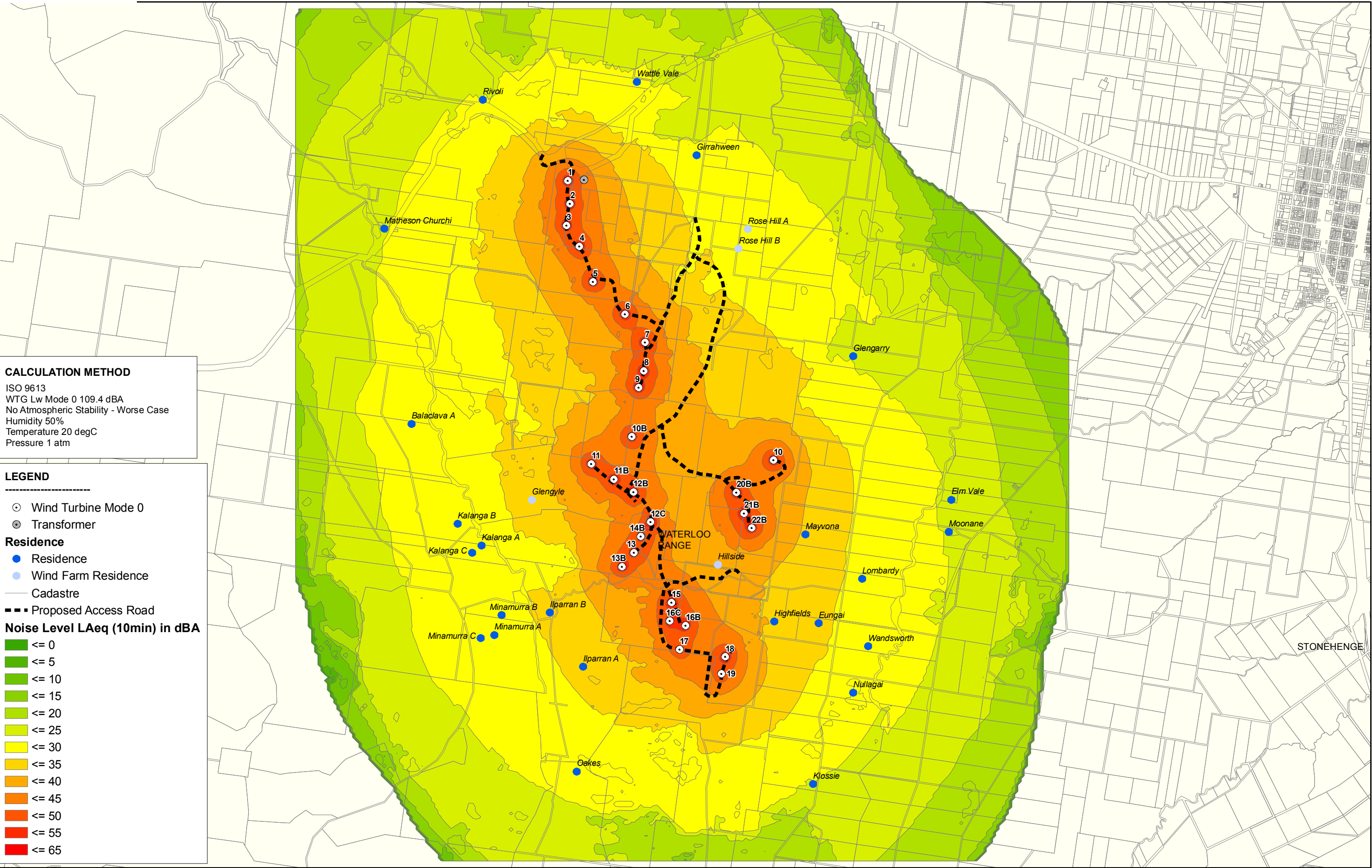






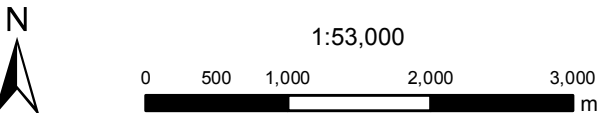






CALCULATION METHOD
ISO 9613
WTG Lw Mode 0 109.4 dBA
No Atmospheric Stability - Worse Case
Humidity 50%
Temperature 20 degC
Pressure 1 atm

- LEGEND**
- Wind Turbine Mode 0
 - Transformer
 - Residence**
 - Residence
 - Wind Farm Residence
 - Cadastre
 - Proposed Access Road
 - Noise Level L_{Aeq} (10min) in dBA**
 - ≤ 0
 - ≤ 5
 - ≤ 10
 - ≤ 15
 - ≤ 20
 - ≤ 25
 - ≤ 30
 - ≤ 35
 - ≤ 40
 - ≤ 45
 - ≤ 50
 - ≤ 55
 - ≤ 65



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Data Sources
Projection
Datum
Complied

Connell Wagner
Geoscience Australia
Lambert Conformal Conic
Geocentric Datum of Australia 1994
30/10/07

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The contractor shall satisfy all service authority requirements and obtain all service authority approvals prior to undertaking any excavation.

CALCULATION METHOD

ISO 9613
WTG Lw/105.1 dBA
Stability Class B
Humidity 50%
Temperature 20 degC
Pressure 1 atm

LEGEND

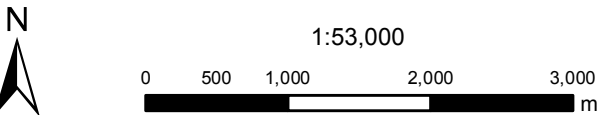
- Wind Turbine Mode 0
- Transformer

Residence

- Residence
- Wind Farm Residence
- Cadastre
- Proposed Access Road

Noise Level LAeq (10min) in dBA

- <= 0
- <= 5
- <= 10
- <= 15
- <= 20
- <= 25
- <= 30
- <= 35
- <= 40
- <= 45
- <= 50
- <= 55
- <= 65



Produced By
Data Sources
Projection
Datum
Complied

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Geoscience Australia
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Geocentric Datum of Australia 1994
30/10/07

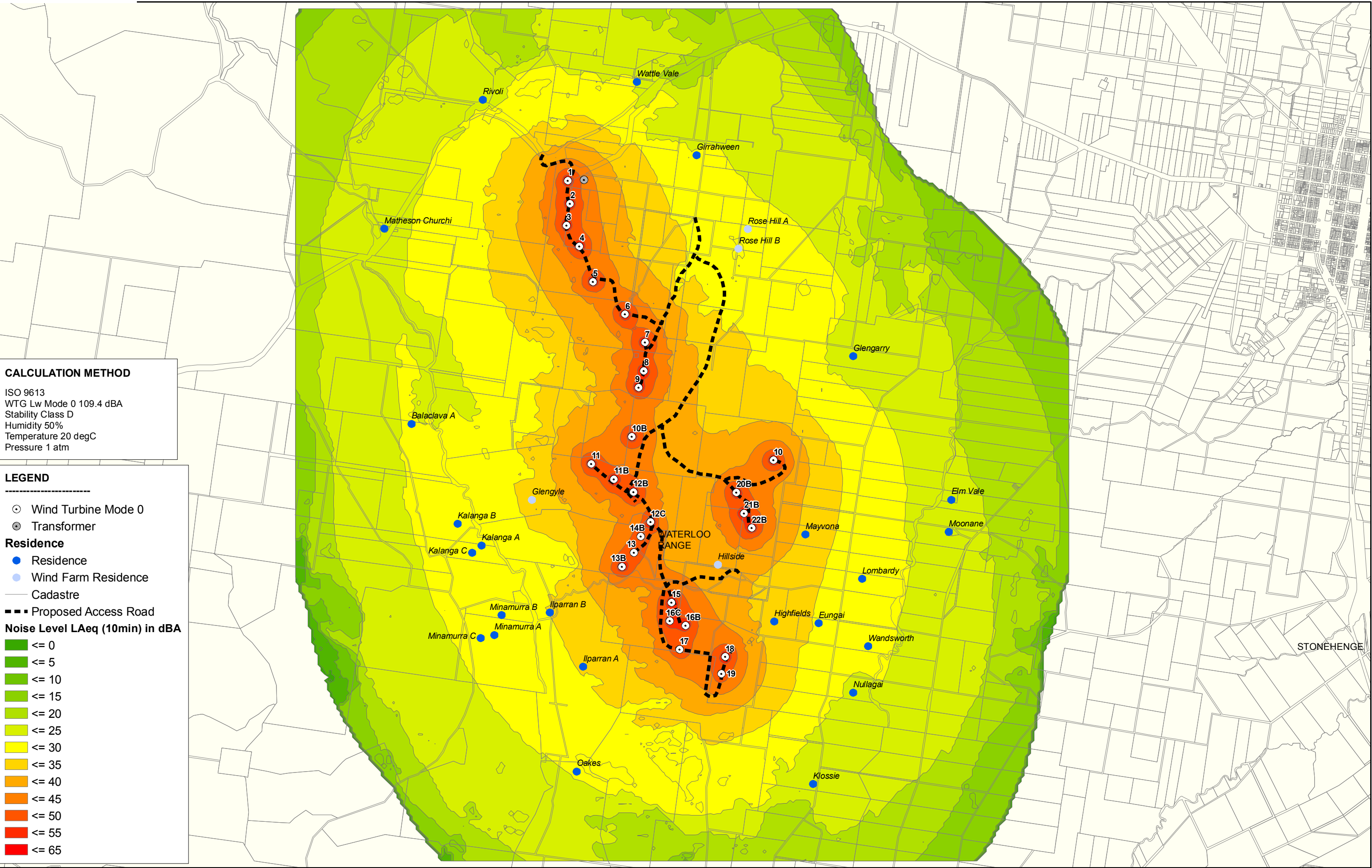
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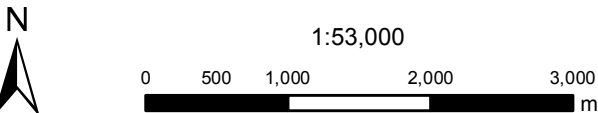


CALCULATION METHOD

ISO 9613
WTG Lw Mode 0 109.4 dBA
Stability Class D
Humidity 50%
Temperature 20 degC
Pressure 1 atm

LEGEND

- Wind Turbine Mode 0
- Transformer
- Residence**
- Residence
- Wind Farm Residence
- Cadastre
- Proposed Access Road
- Noise Level LAeq (10min) in dBA**
- <= 0
- <= 5
- <= 10
- <= 15
- <= 20
- <= 25
- <= 30
- <= 35
- <= 40
- <= 45
- <= 50
- <= 55
- <= 65



1:53,000

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30/10/07

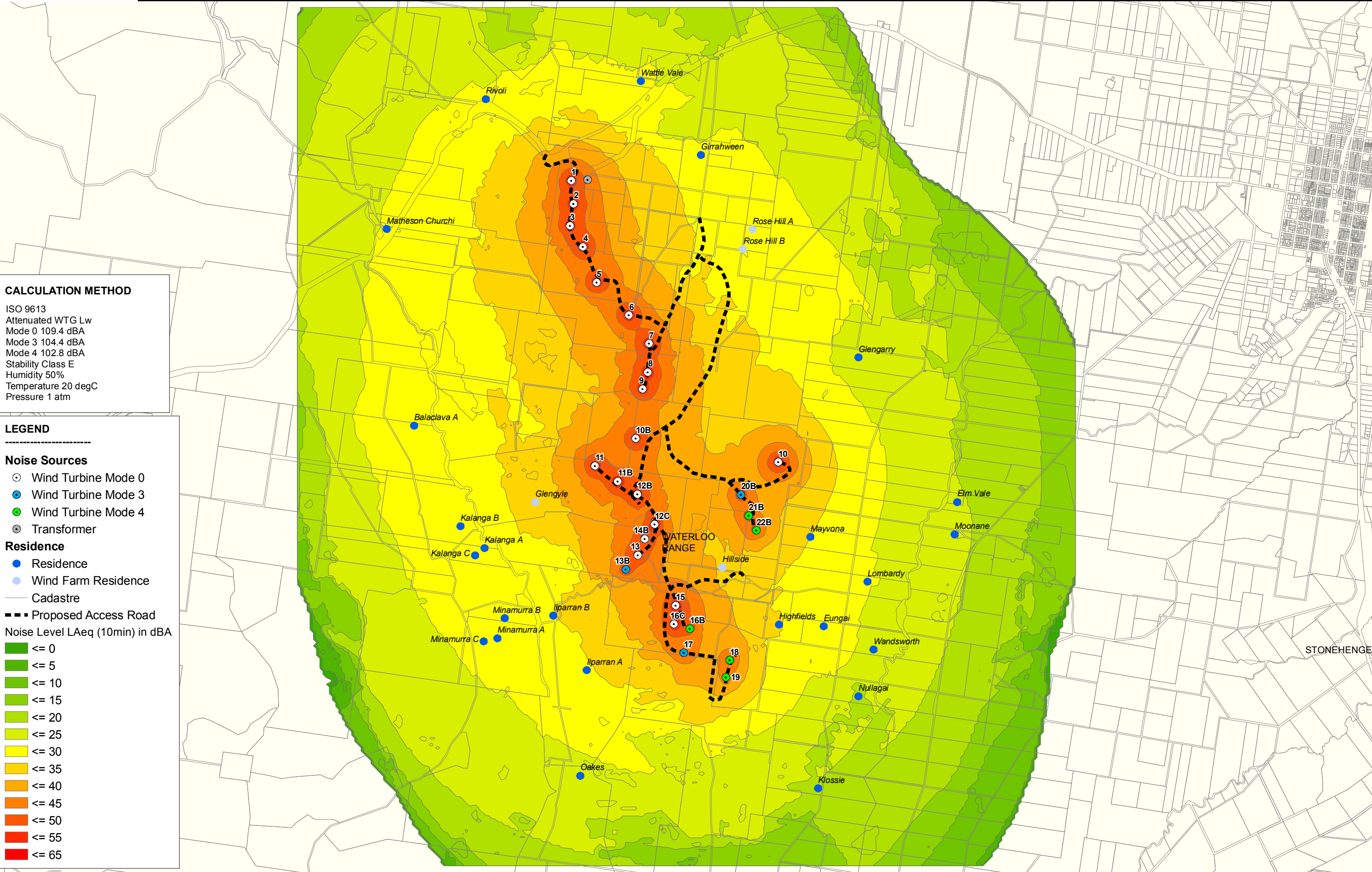
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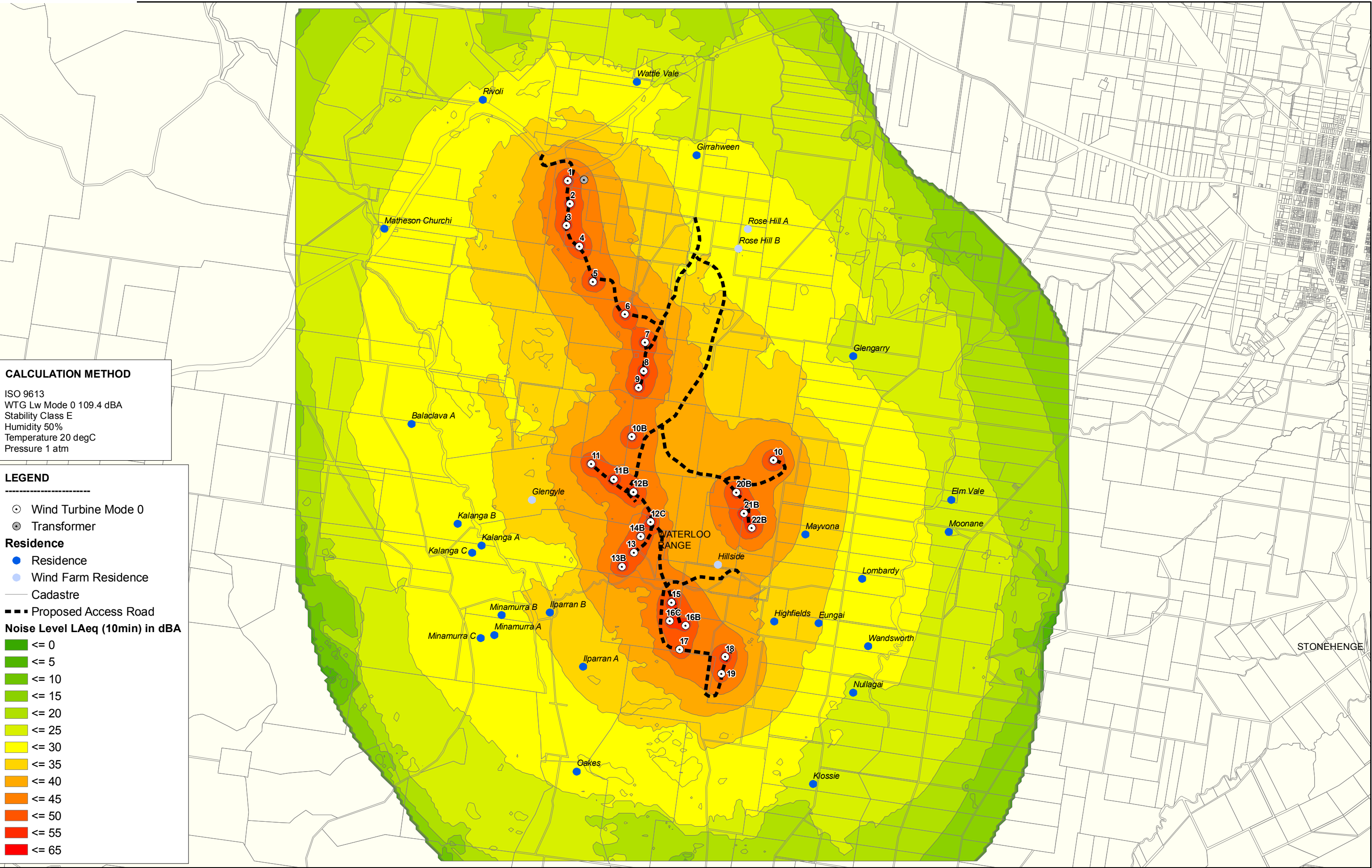
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CALCULATION METHOD

ISO 9613
WTG Lw Mode 0 109.4 dBA
Stability Class E
Humidity 50%
Temperature 20 degC
Pressure 1 atm

LEGEND

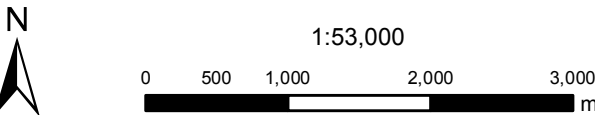
- Wind Turbine Mode 0
- Transformer

Residence

- Residence
- Wind Farm Residence
- Cadastral
- Proposed Access Road

Noise Level LAeq (10min) in dBA

- <= 0
- <= 5
- <= 10
- <= 15
- <= 20
- <= 25
- <= 30
- <= 35
- <= 40
- <= 45
- <= 50
- <= 55
- <= 65



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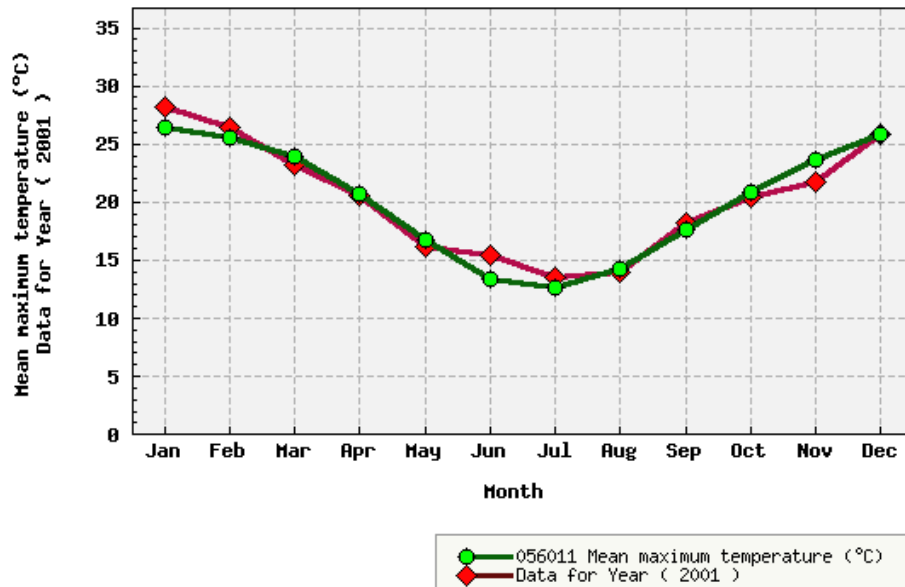
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Australian Climate Statistics

Location: 056011 GLEN INNES POST OFFICE

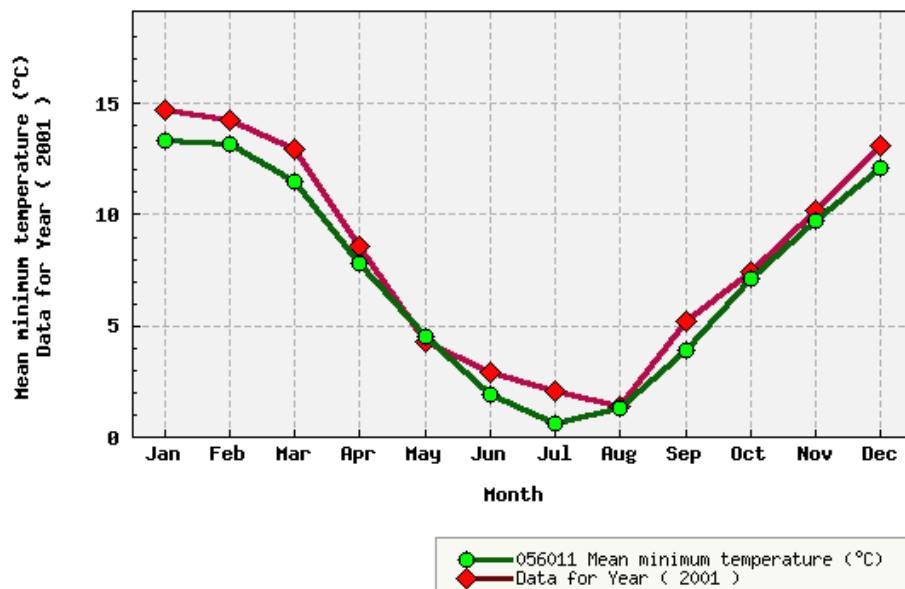


Australian Government
Bureau of Meteorology

Created on Mon 26 Nov 2007 09:35 AM EST

Australian Climate Statistics

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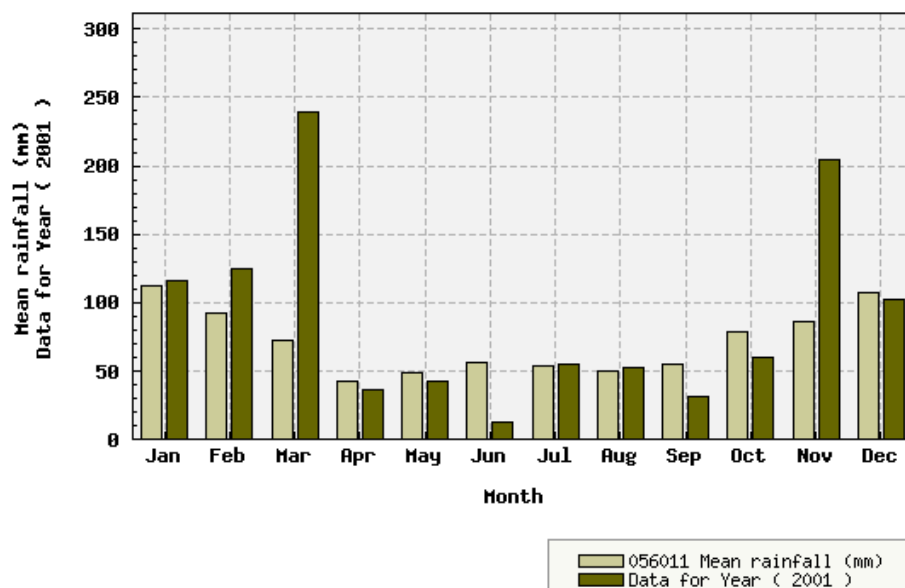


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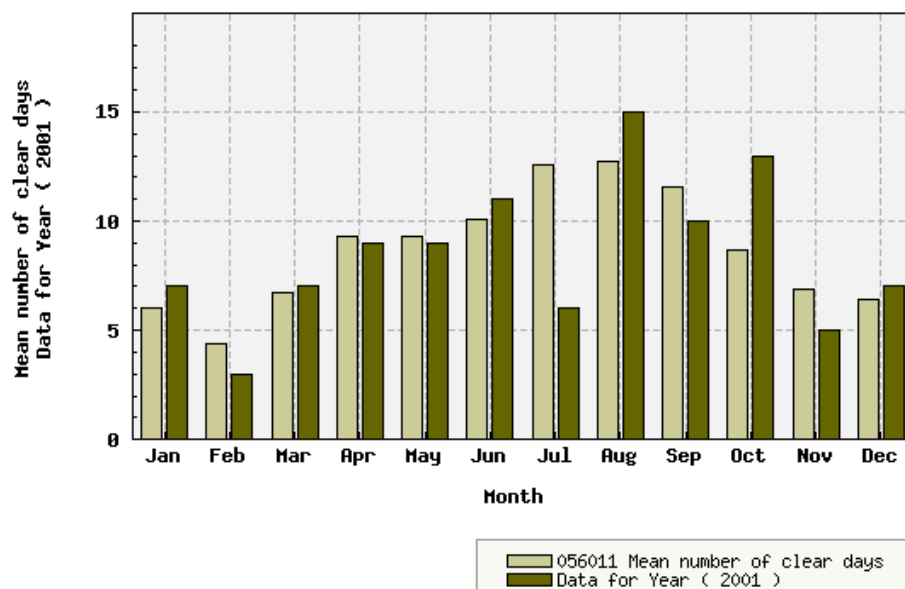


Australian Government
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Australian Climate Statistics

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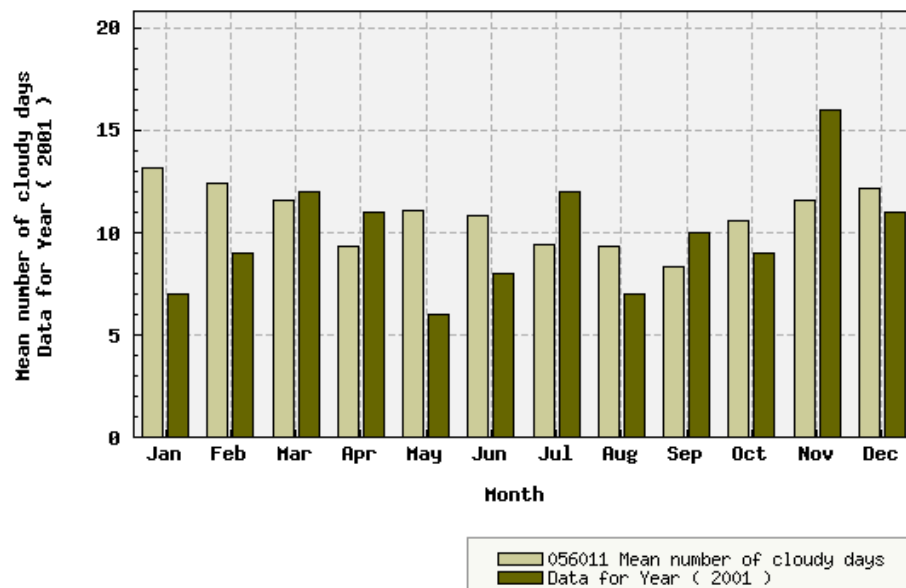


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Australian Climate Statistics

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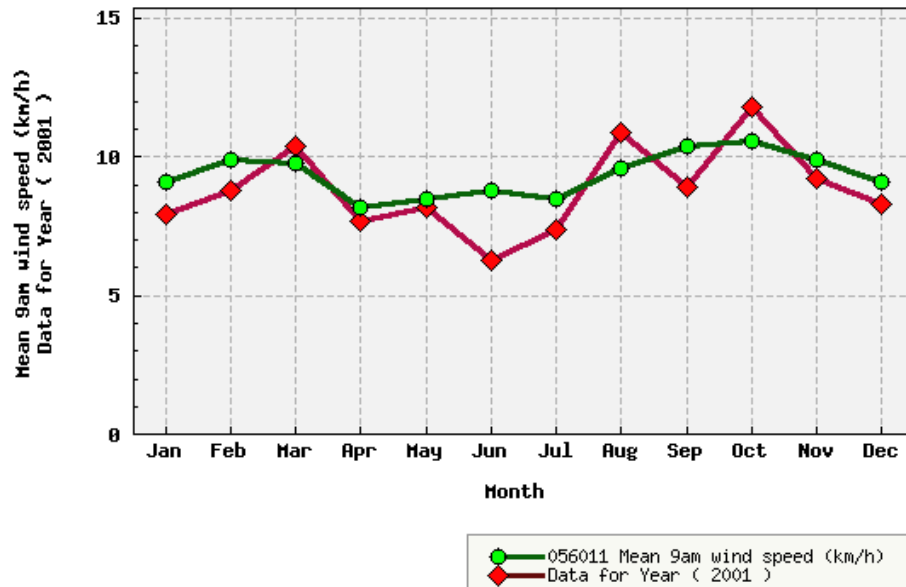


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Australian Climate Statistics

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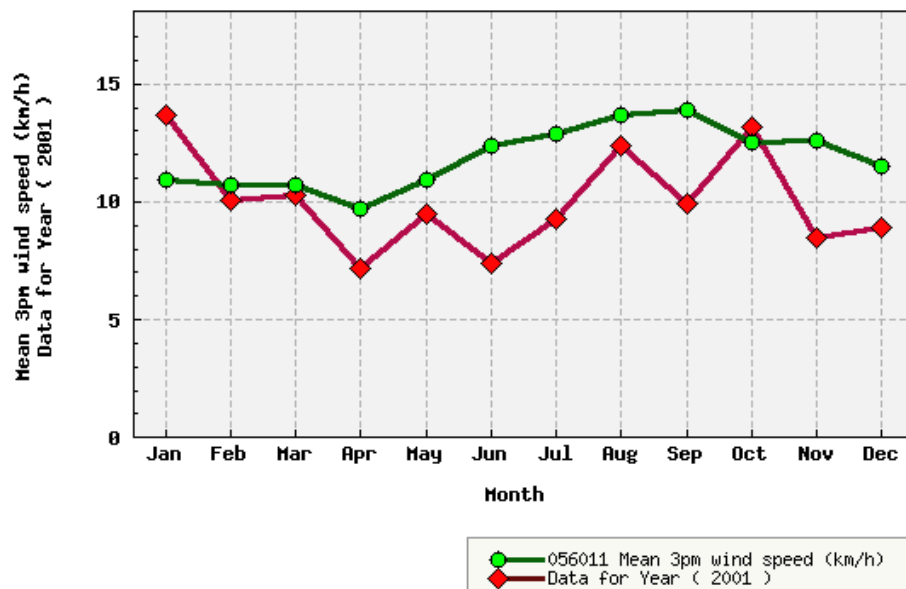


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