

**Ambient Ground Vibration Measurements
at the Hanford, Washington LIGO Site**

Appendix A

LIGO-C950513-00-□

LIGO Site Time Series Plots

Time Series Plots

LIGO Northwest End

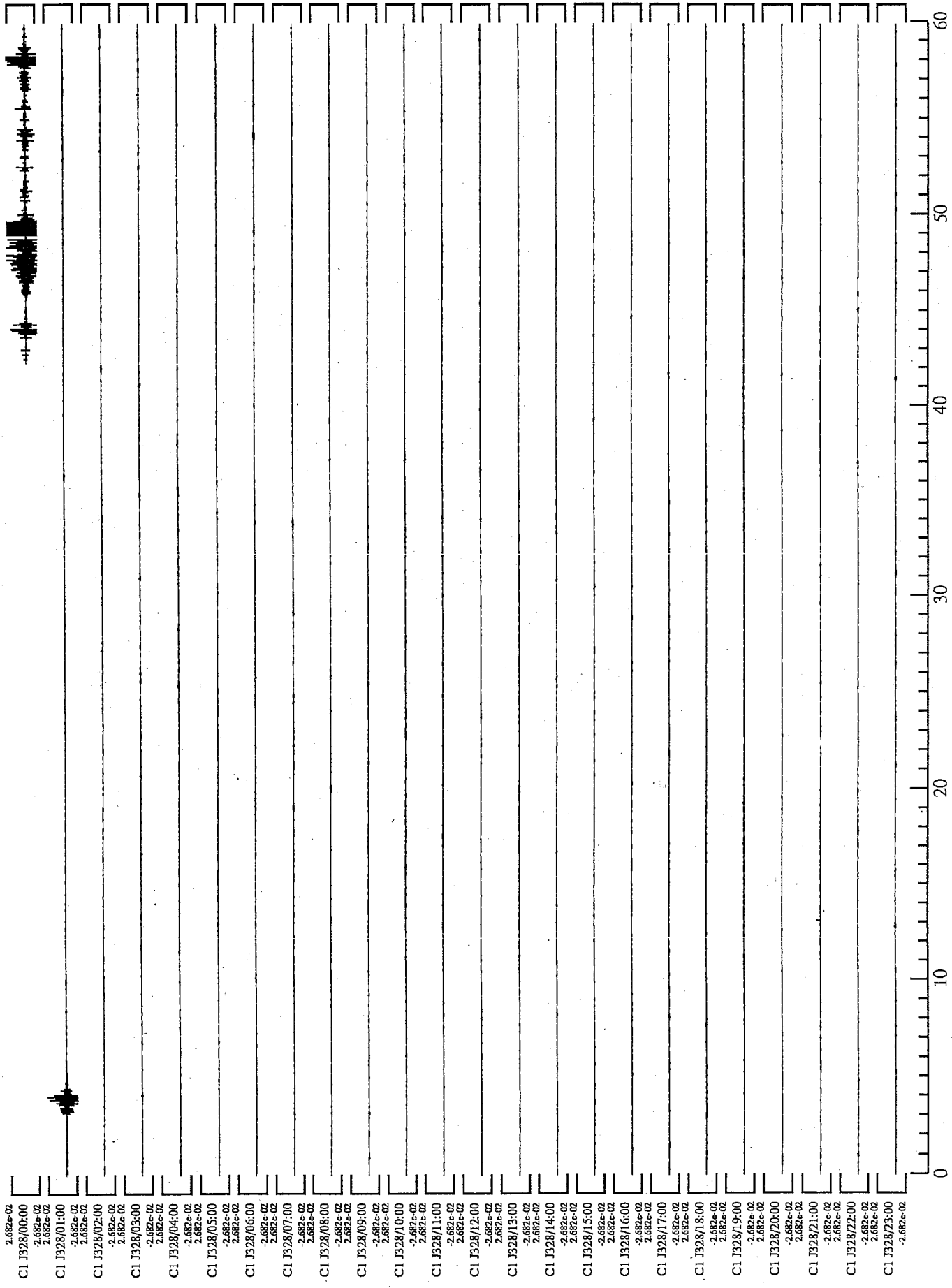
Day 328 Channel 1 - Vertical
Day 329 Channel 1 - Vertical
Day 330 Channel 1 - Vertical
Day 331 Channel 1 - Vertical
Day 332 Channel 1 - Vertical
Day 333 Channel 1 - Vertical
Day 334 Channel 1 - Vertical
Day 335 Channel 1 - Vertical

Day 328 Channel 2 - Northwest Horizontal
Day 329 Channel 2 - Northwest Horizontal
Day 330 Channel 2 - Northwest Horizontal
Day 331 Channel 2 - Northwest Horizontal
Day 332 Channel 2 - Northwest Horizontal
Day 333 Channel 2 - Northwest Horizontal
Day 334 Channel 2 - Northwest Horizontal
Day 335 Channel 2 - Northwest Horizontal

Day 328 Channel 3 - Southwest Horizontal
Day 329 Channel 3 - Southwest Horizontal
Day 330 Channel 3 - Southwest Horizontal
Day 331 Channel 3 - Southwest Horizontal
Day 332 Channel 3 - Southwest Horizontal
Day 333 Channel 3 - Southwest Horizontal
Day 334 Channel 3 - Southwest Horizontal
Day 335 Channel 3 - Southwest Horizontal

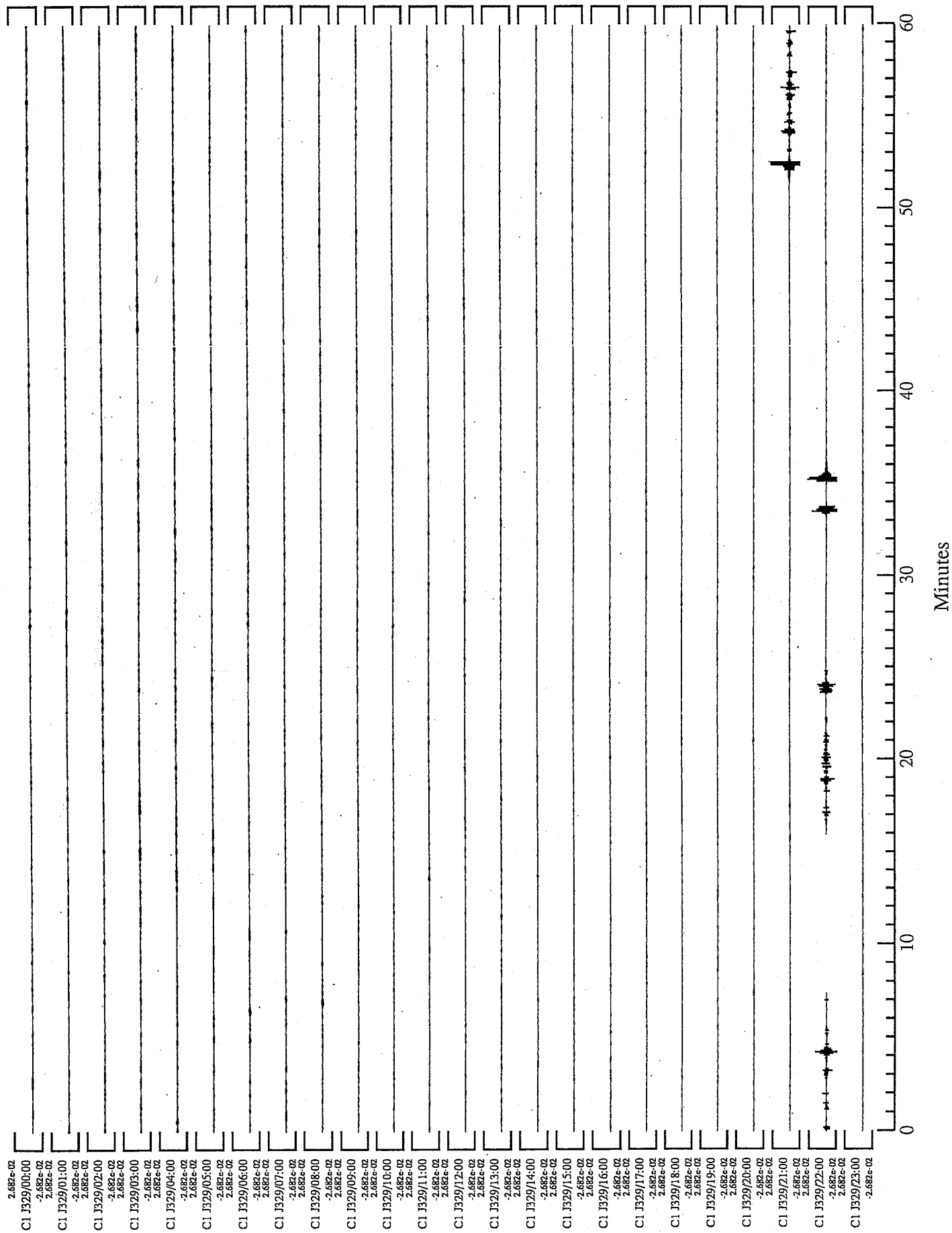
Day 328 Channel 4 - Infrasound Pressure
Day 329 Channel 4 - Infrasound Pressure
Day 330 Channel 4 - Infrasound Pressure
Day 331 Channel 4 - Infrasound Pressure
Day 332 Channel 4 - Infrasound Pressure
Day 333 Channel 4 - Infrasound Pressure
Day 334 Channel 4 - Infrasound Pressure
Day 335 Channel 4 - Infrasound Pressure

Decimation = 1234, DPI = 85, Scaled by manual



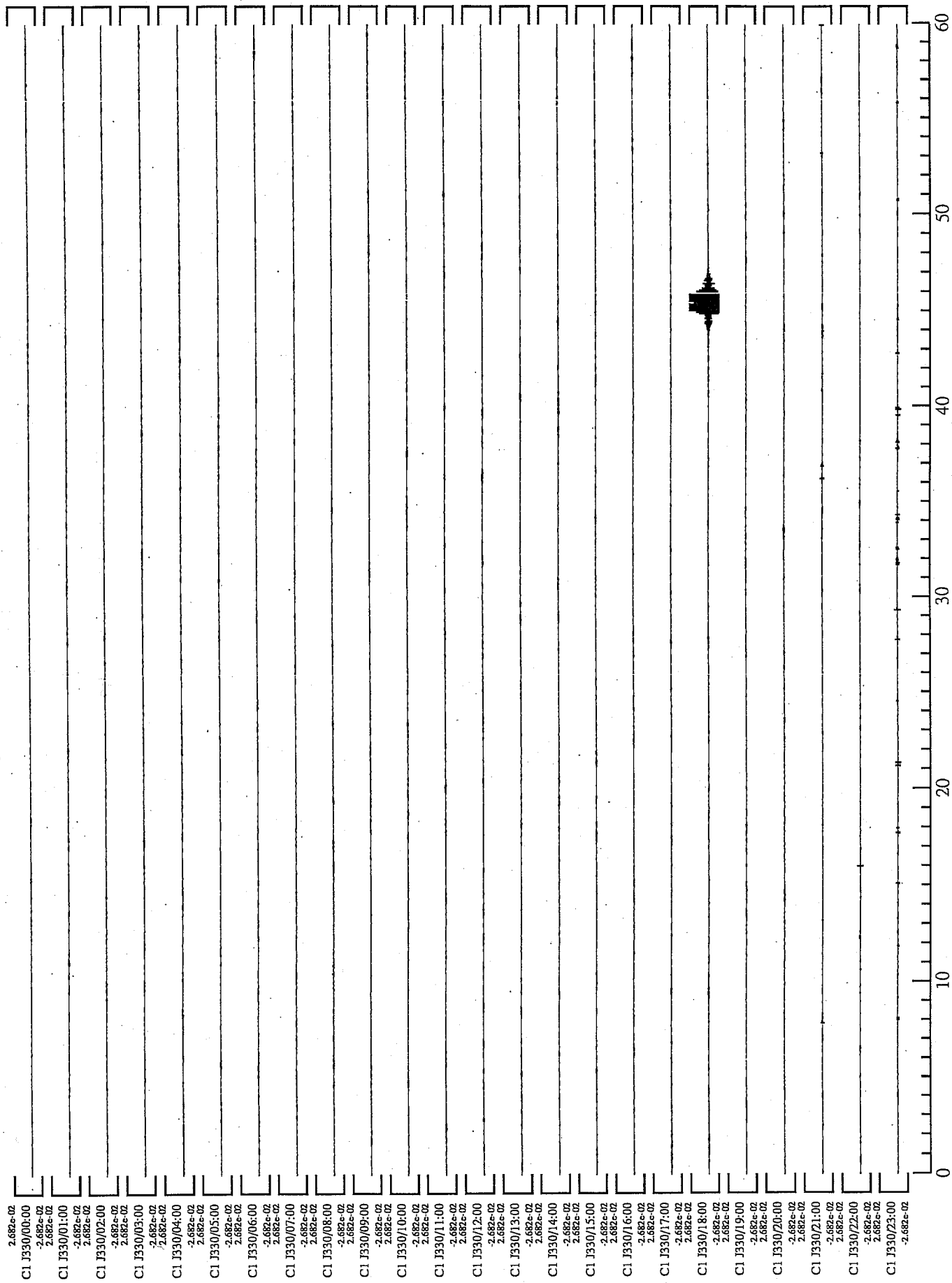
Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 8 / Start Time=1994:329:00:00
Decimation = 1234, DPI = 85, Scaled by manual



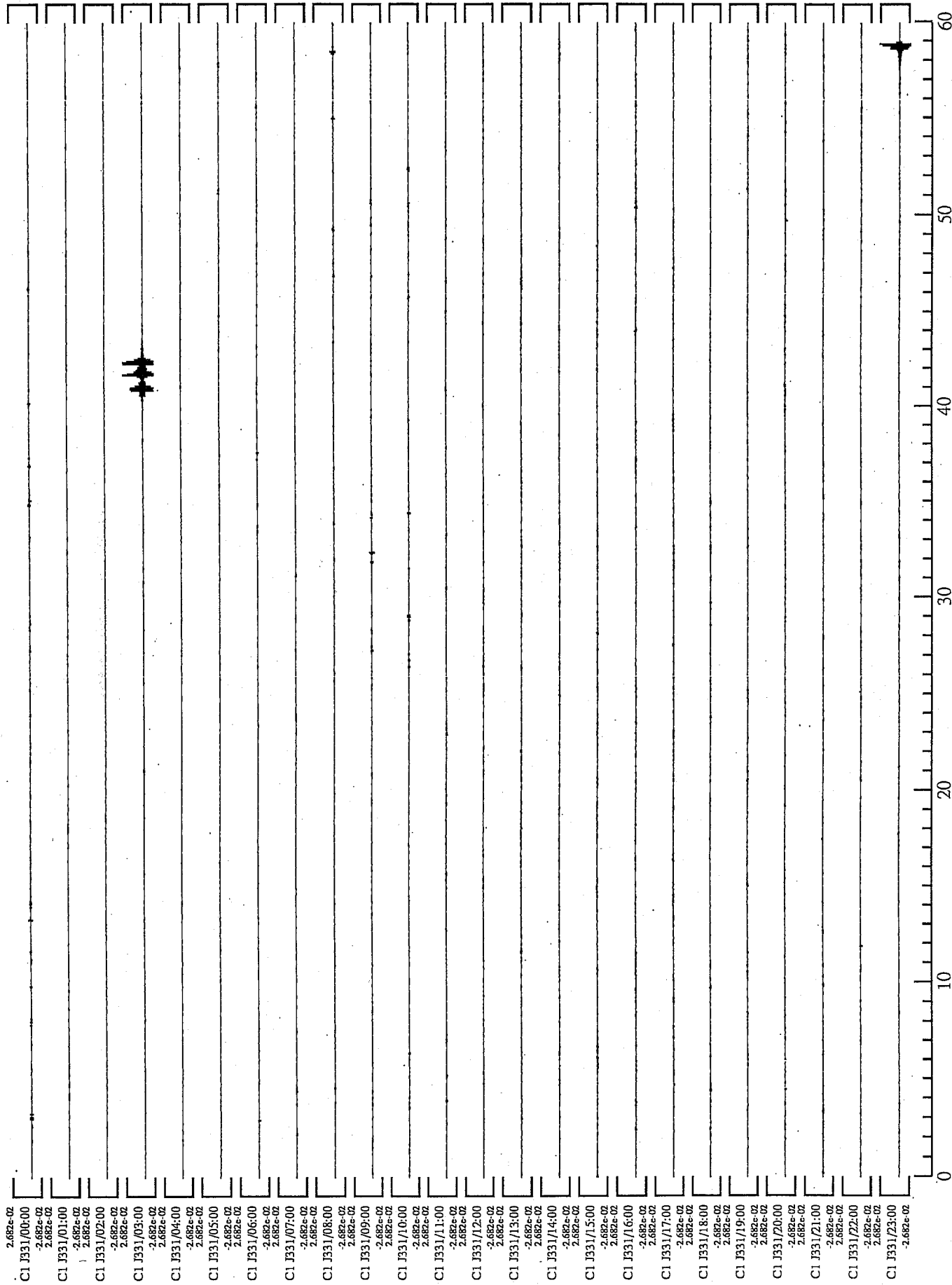
PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 8 / Start Time=1994:330:00:00

Decimation = 1234, DPI = 85, Scaled by manual

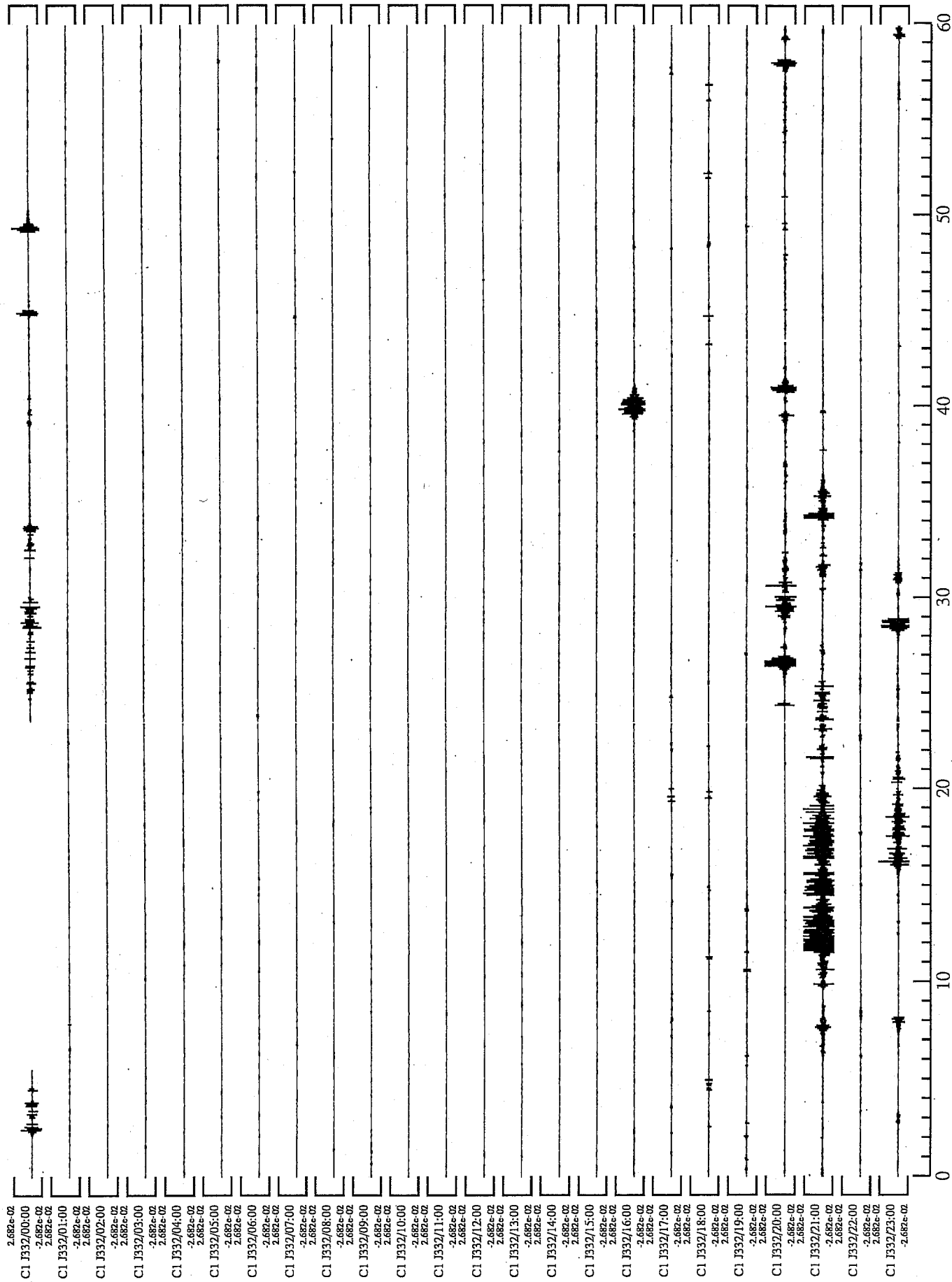


Minutes

Decimation = 1234, DPI = 85, Scaled by manual



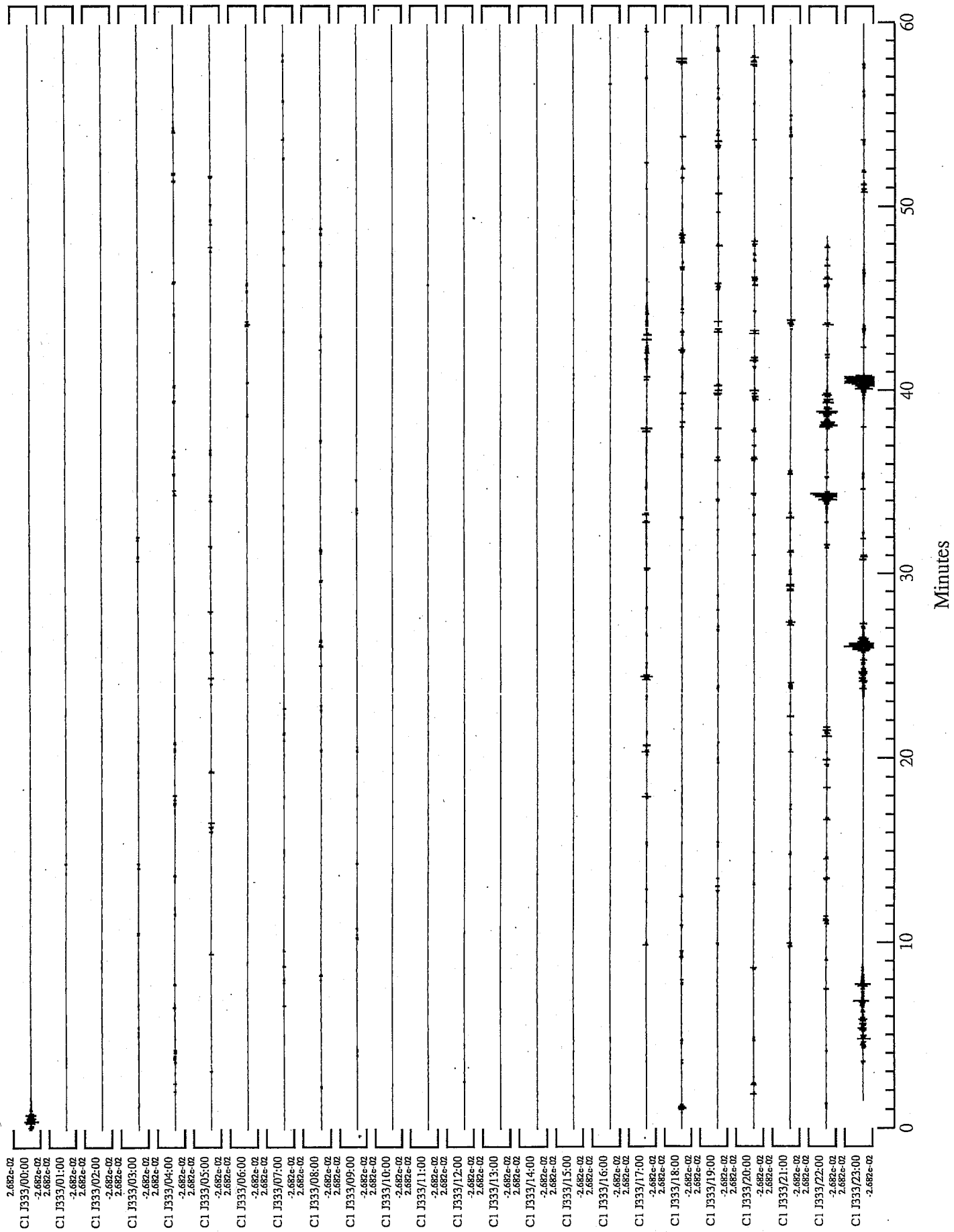
PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 8 / Start Time=1994:332:00:00
Decimation = 1234, DPI = 85, Scaled by manual



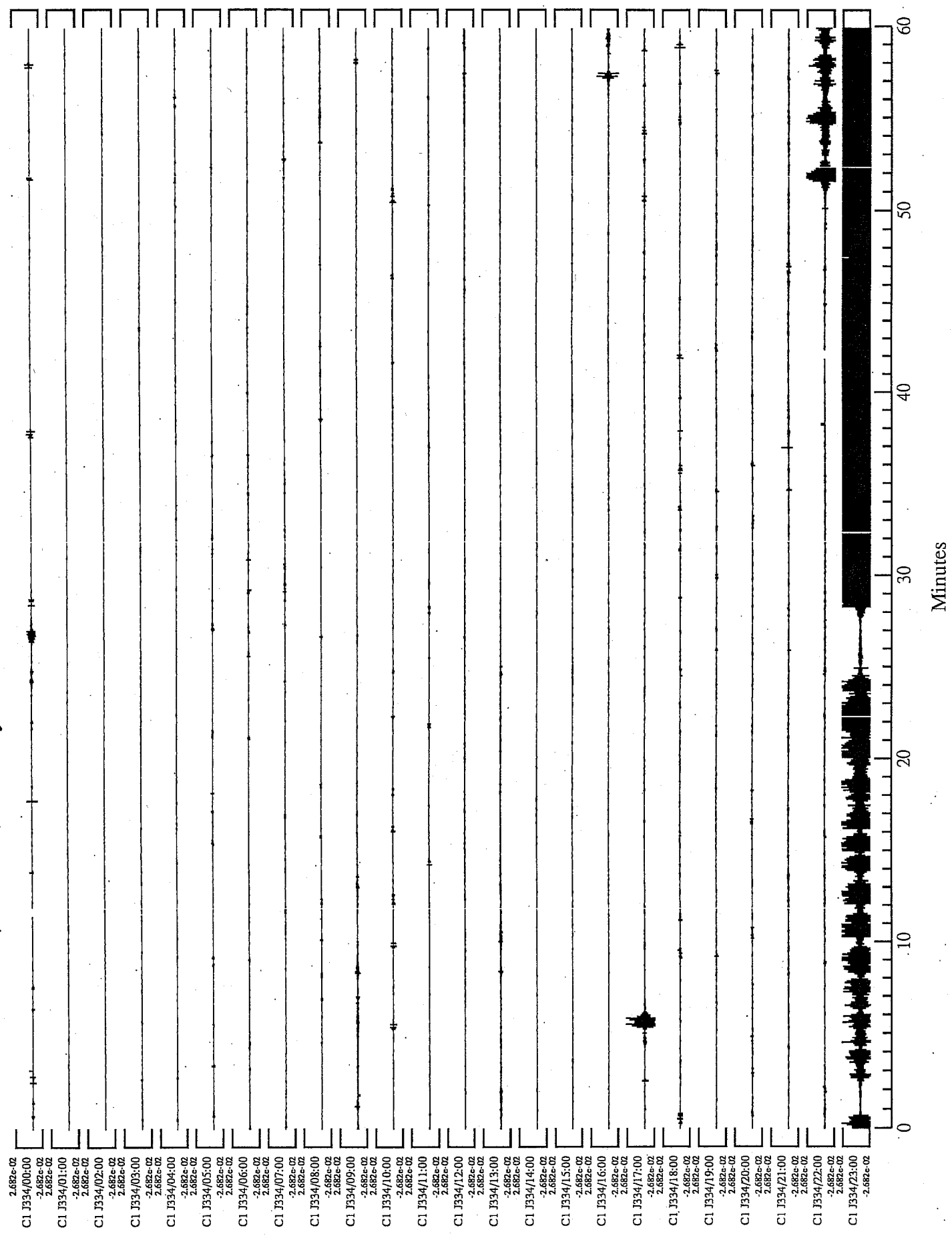
Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 8 / Start Time=1994:333:00:00

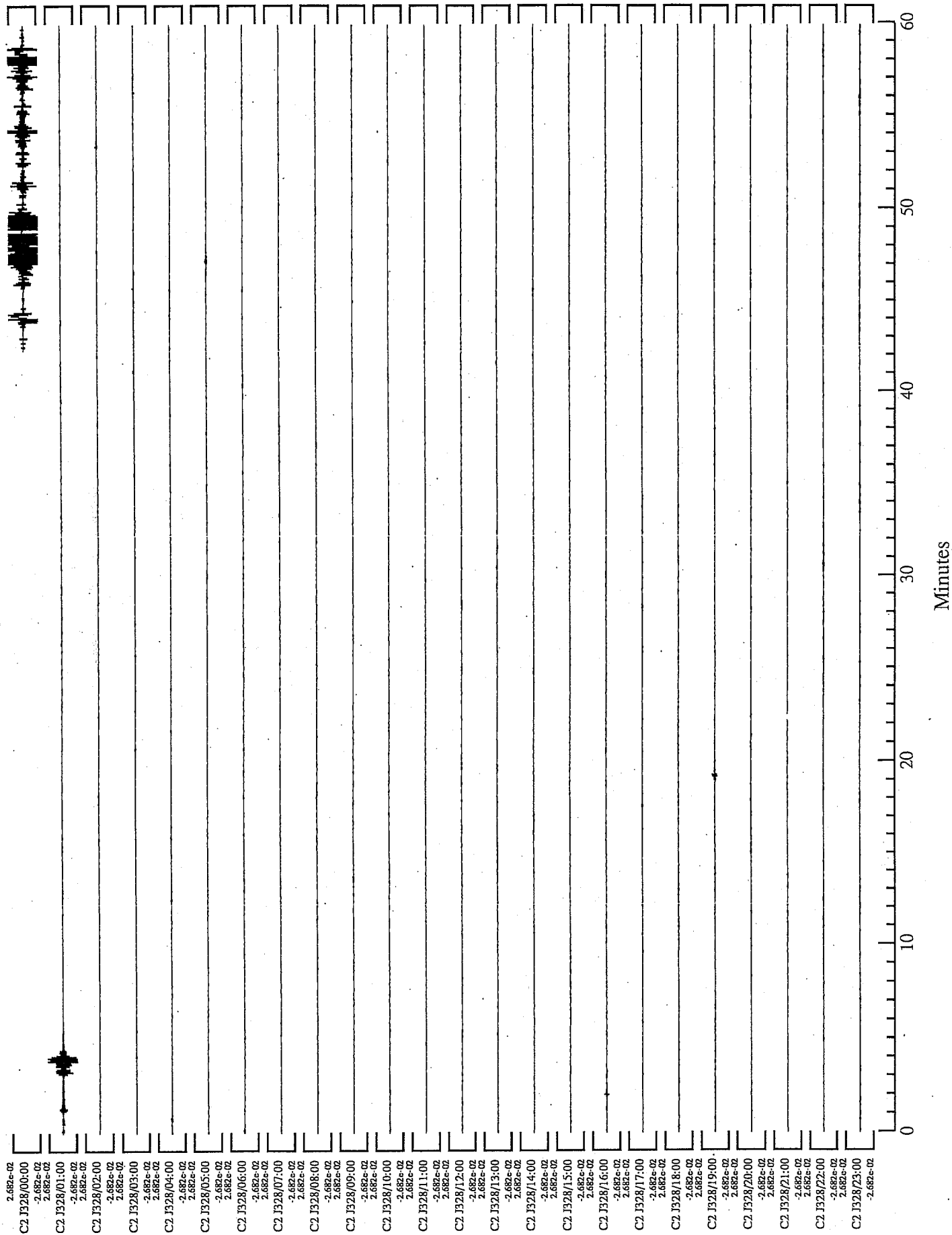
Decimation = 1234, DPI = 85, Scaled by manual



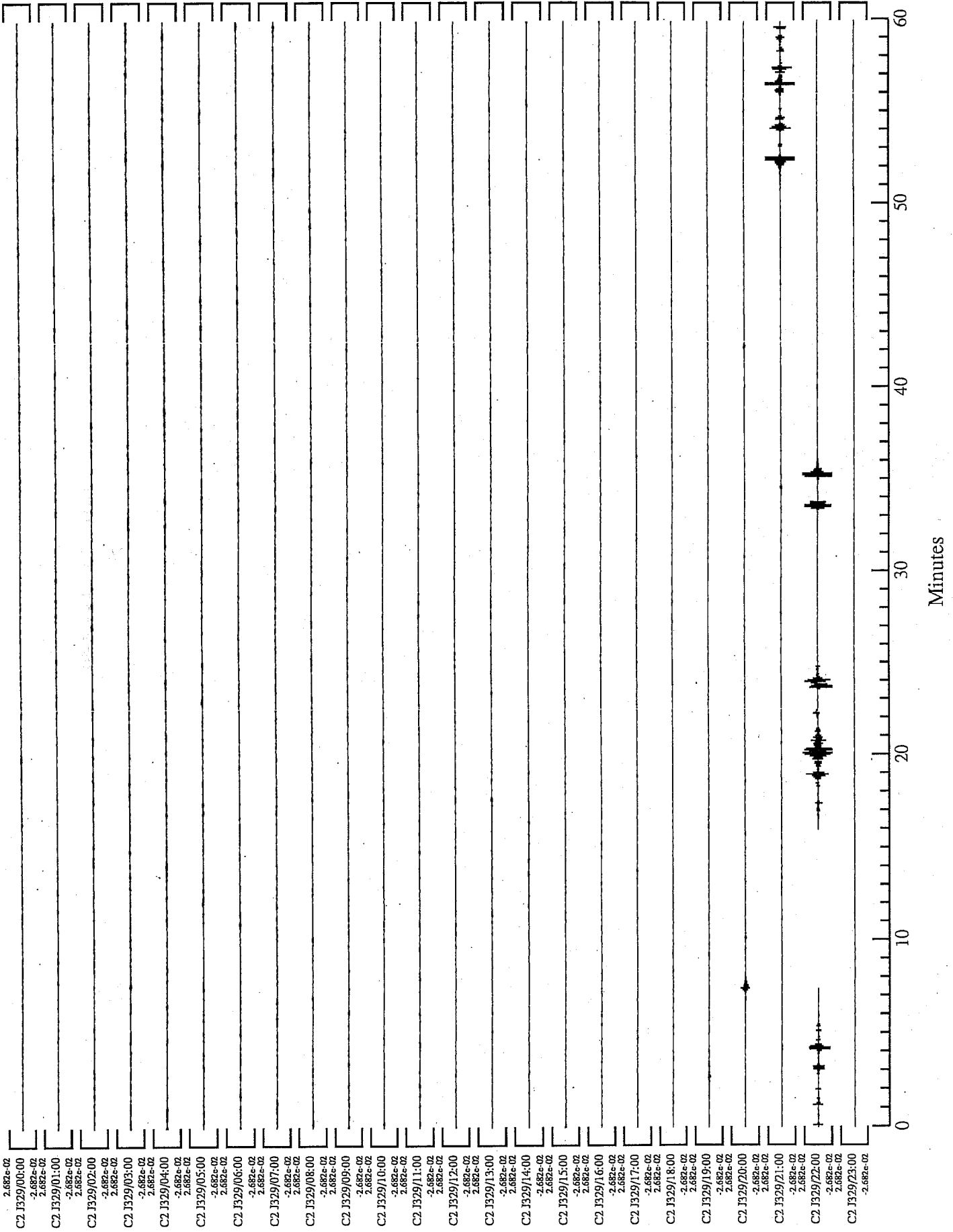
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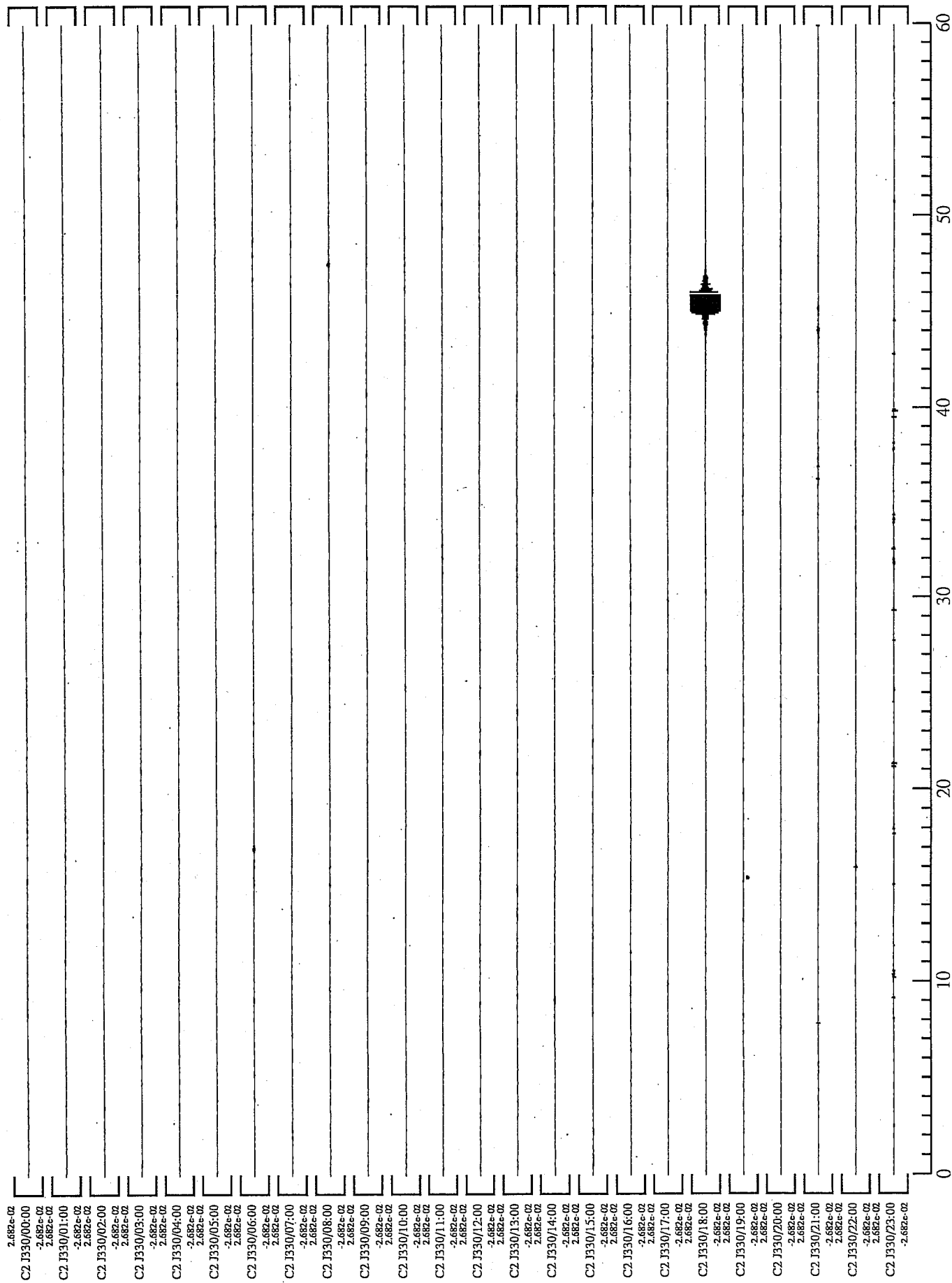
Decimation = 1234, DPI = 85, Scaled by manual



Decimation = 1234, DPI = 85, Scaled by manual

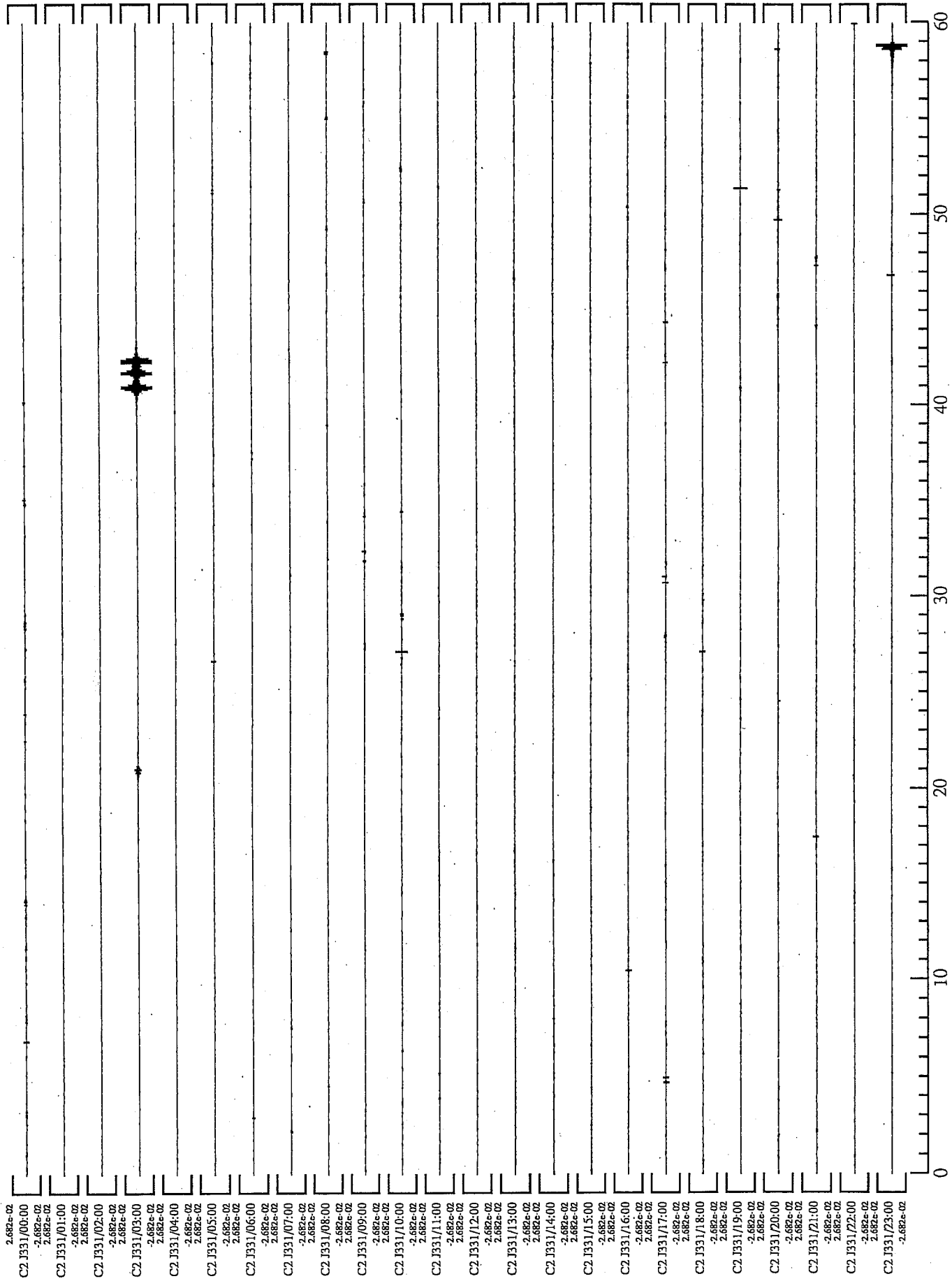


Decimation = 1234, DPI = 85, Scaled by manual



Minutes

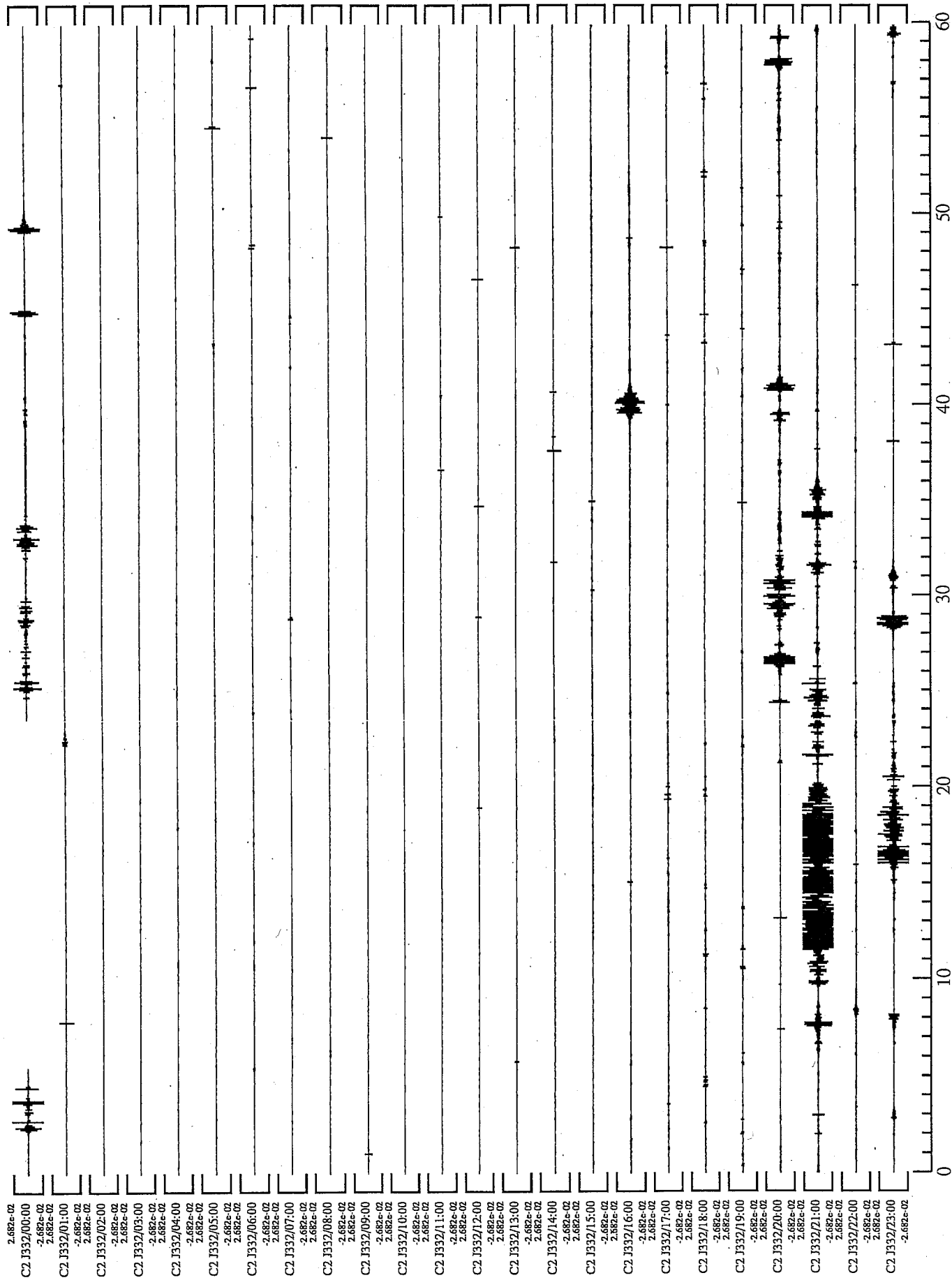
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 8 / Start Time=1994:332:00:00

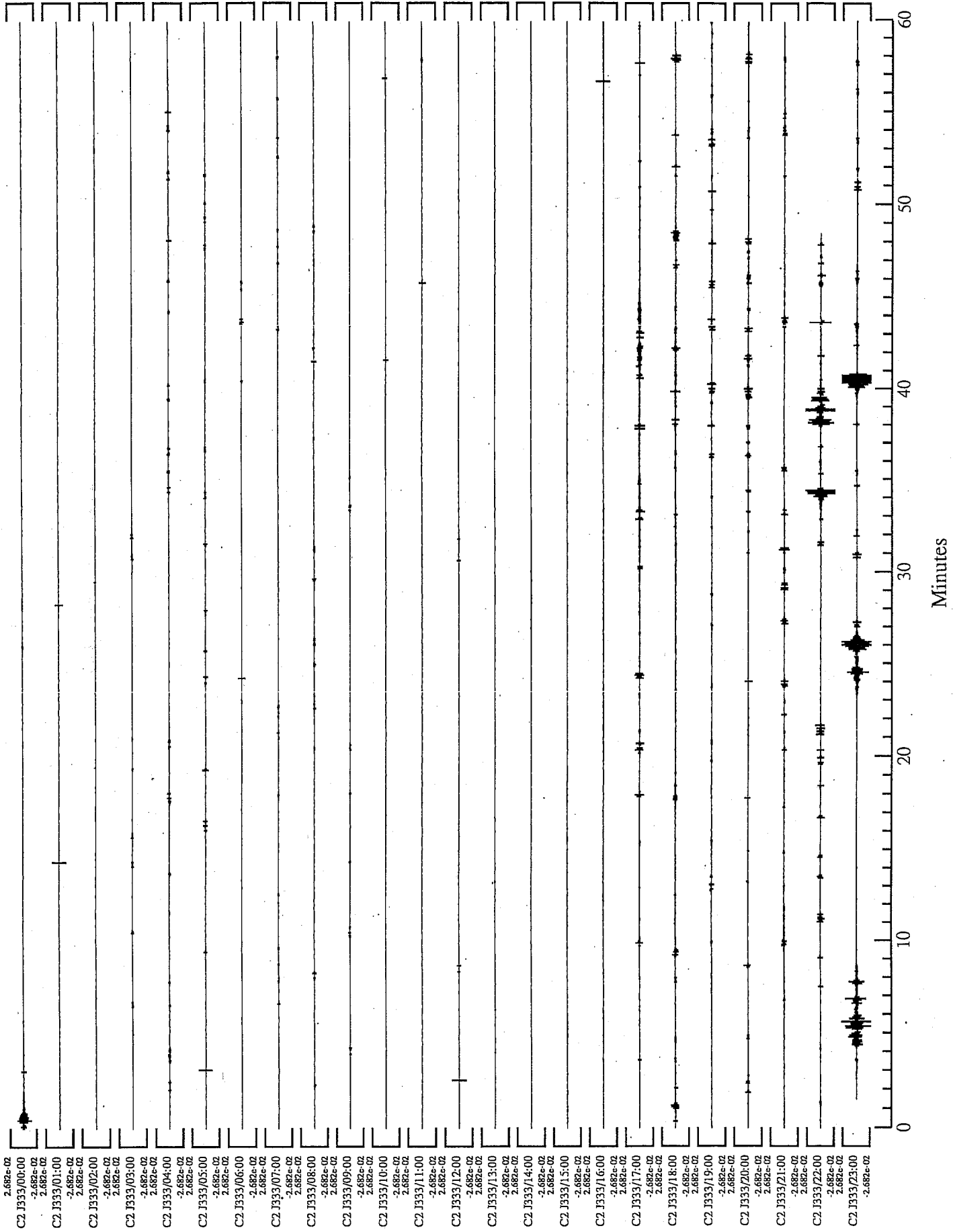
Decimation = 1234, DPI = 85, Scaled by manual



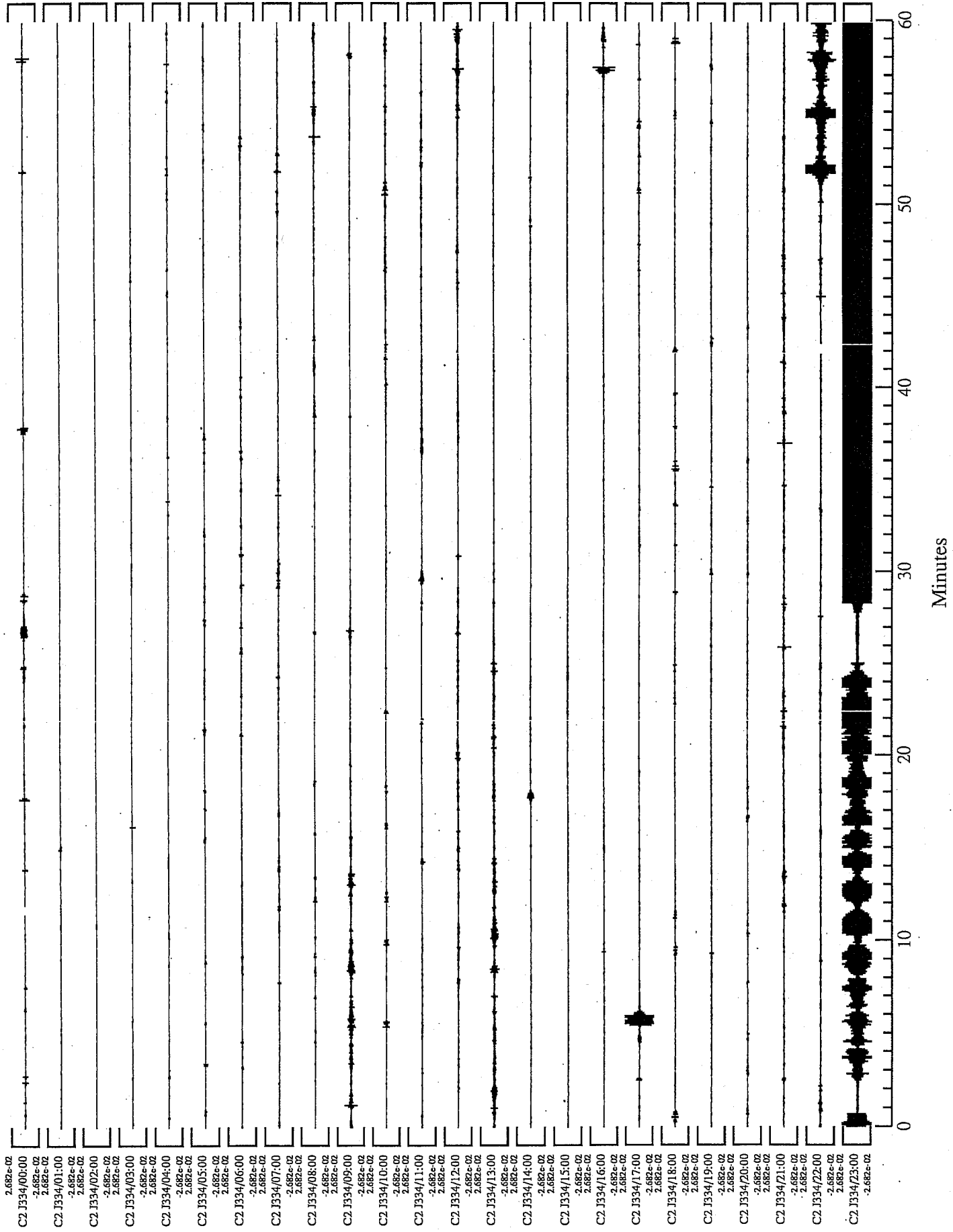
Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 8 / Start Time=1994:333:00:00

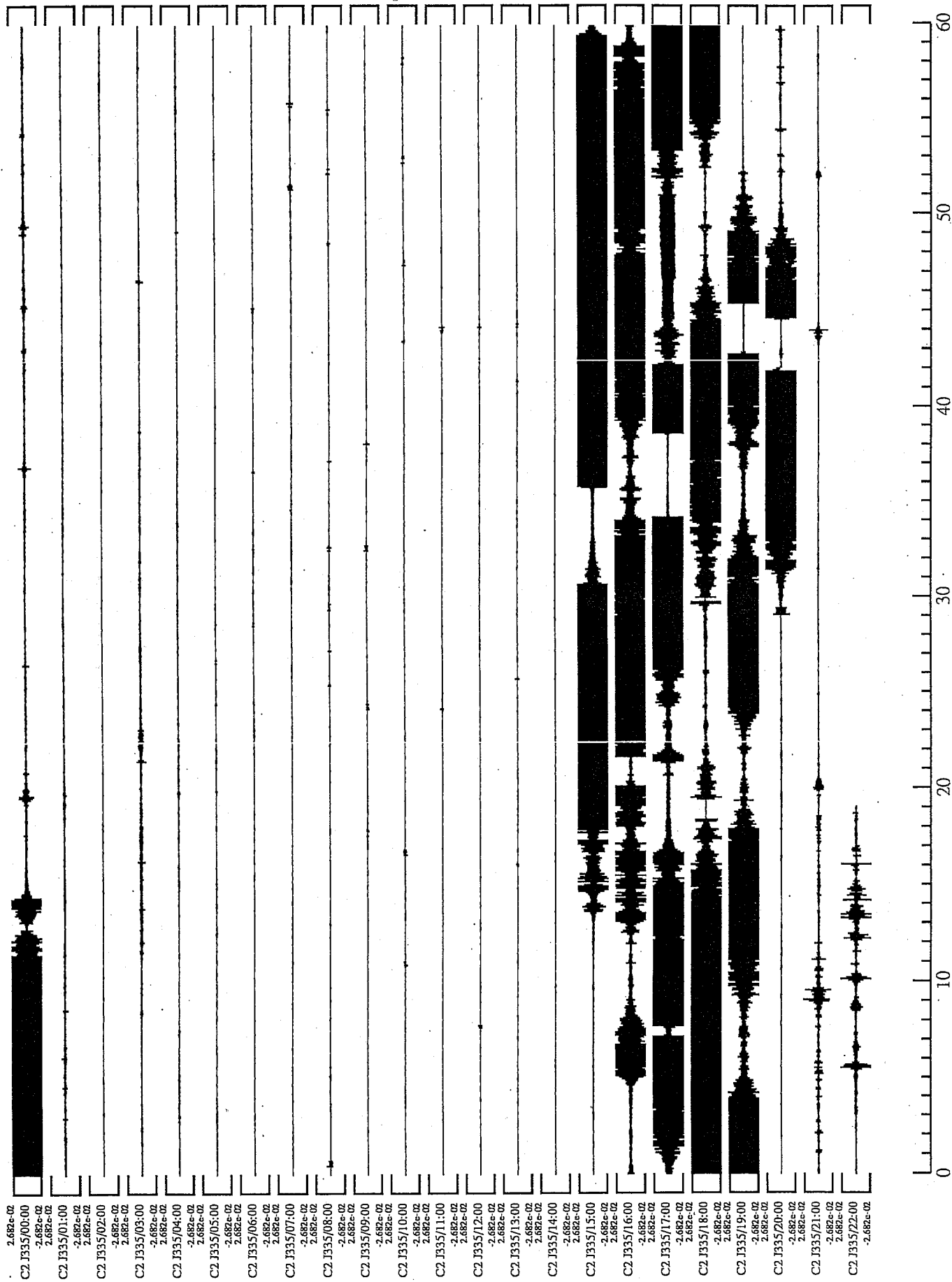
Decimation = 1234, DPI = 85, Scaled by manual



Decimation = 1234, DPI = 85, Scaled by manual

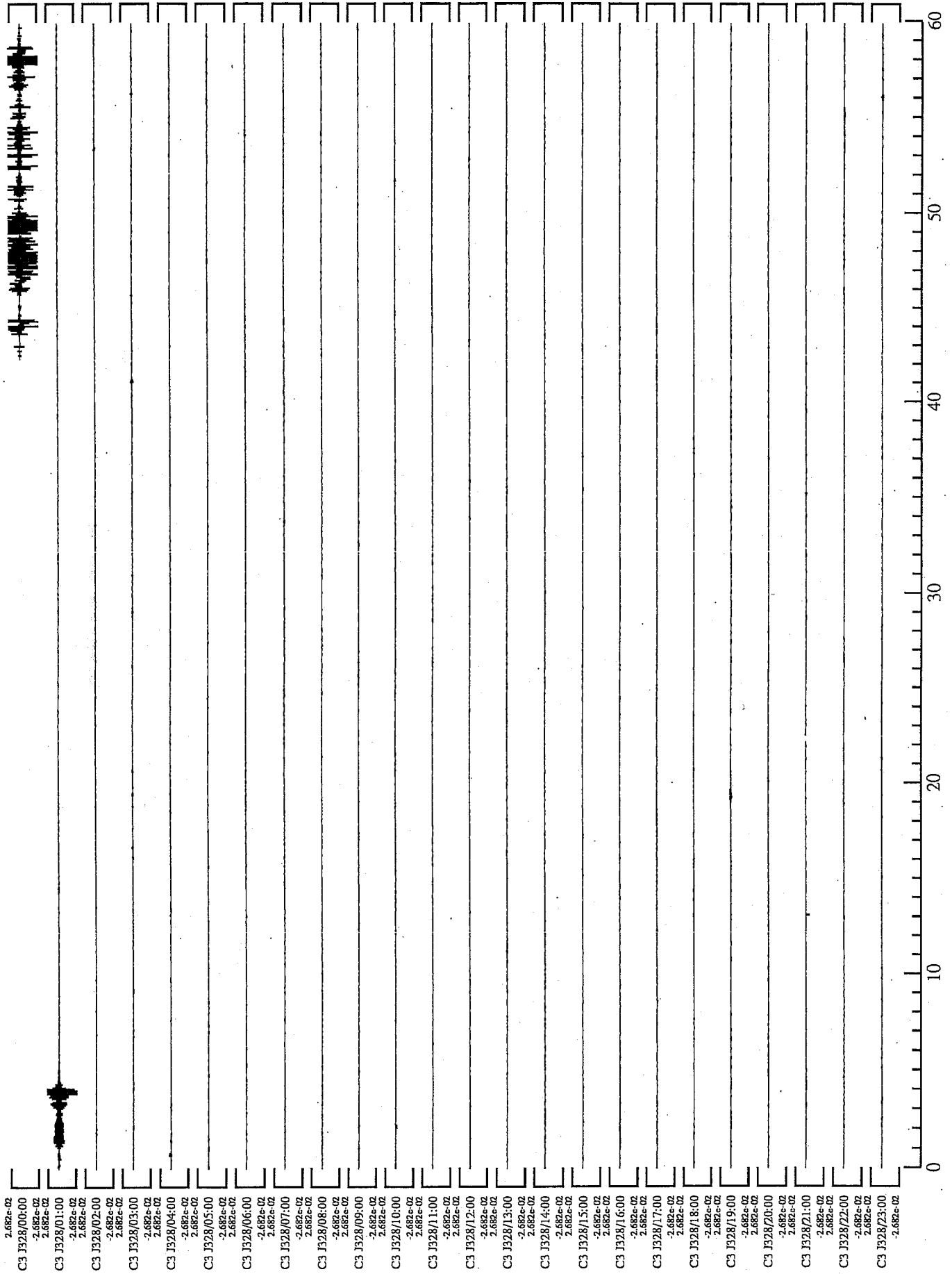


Decimation = 1234, DPI = 85, Scaled by manual



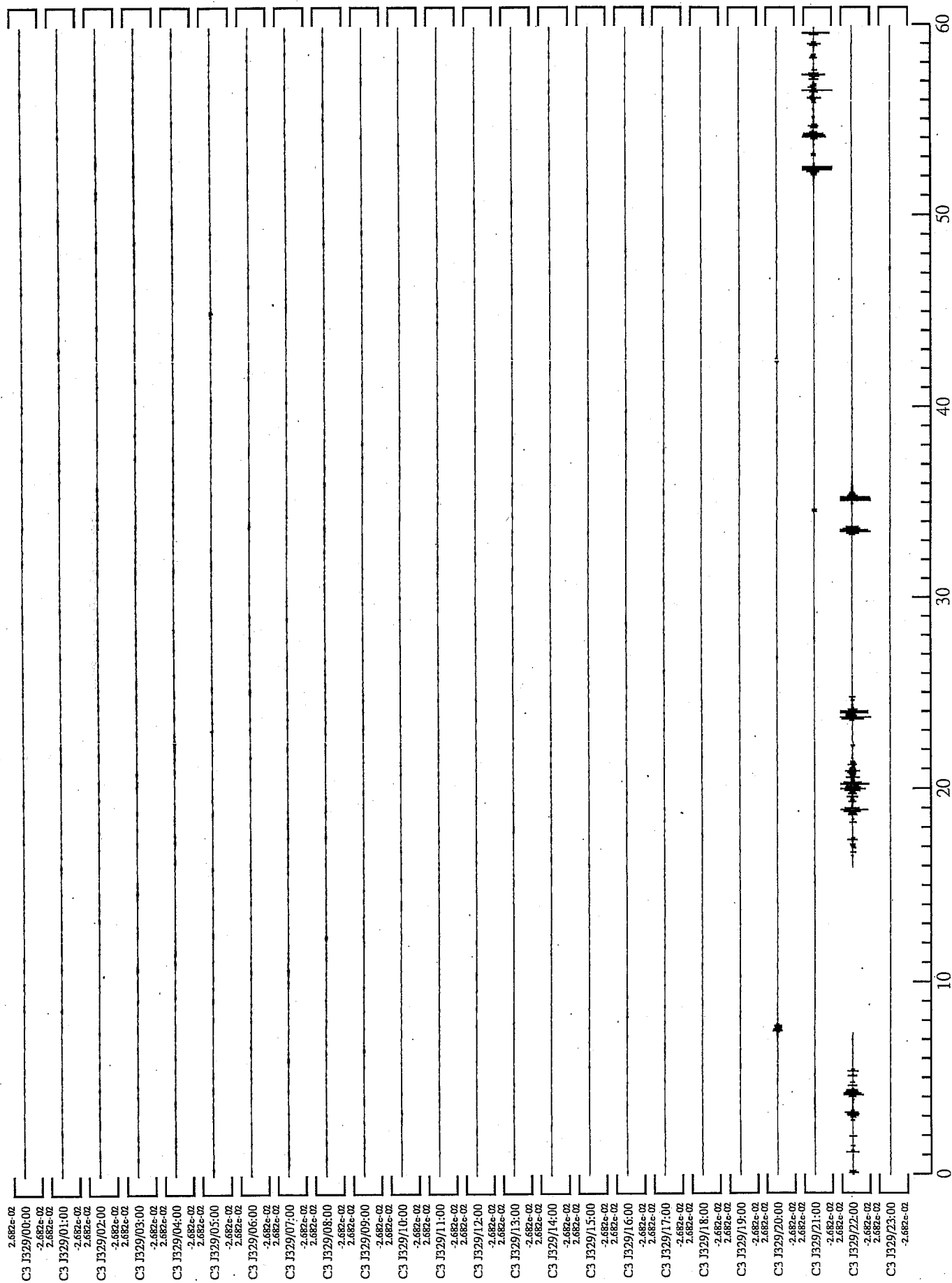
PSQL REFTEK DATA PLOT: DAS 0662 / Page 1 of 8 / Start Time=1994:328:00:00

Decimation = 1234, DPI = 85, Scaled by manual

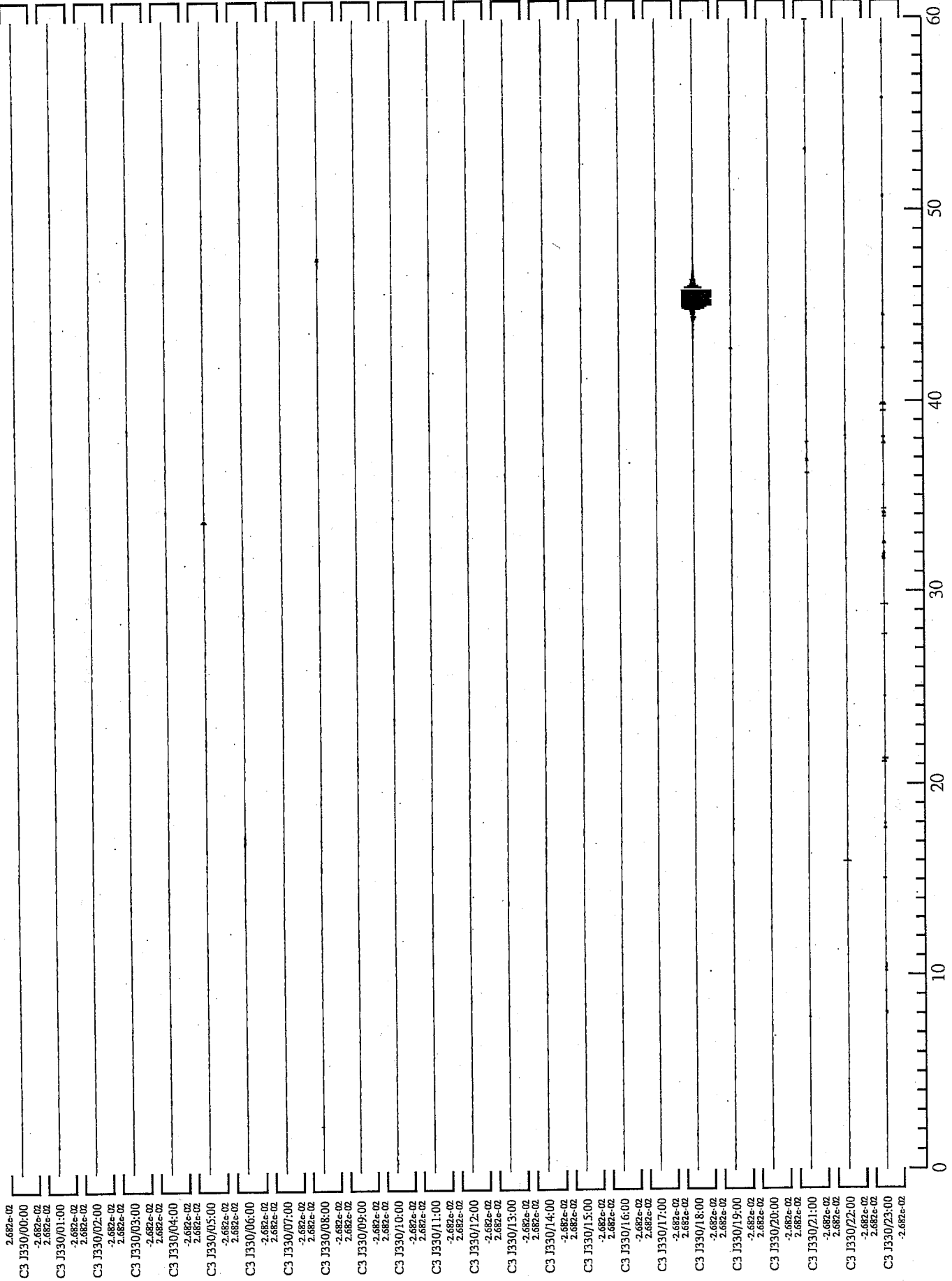


Minutes

Decimation = 1234, DPI = 85, Scaled by manual

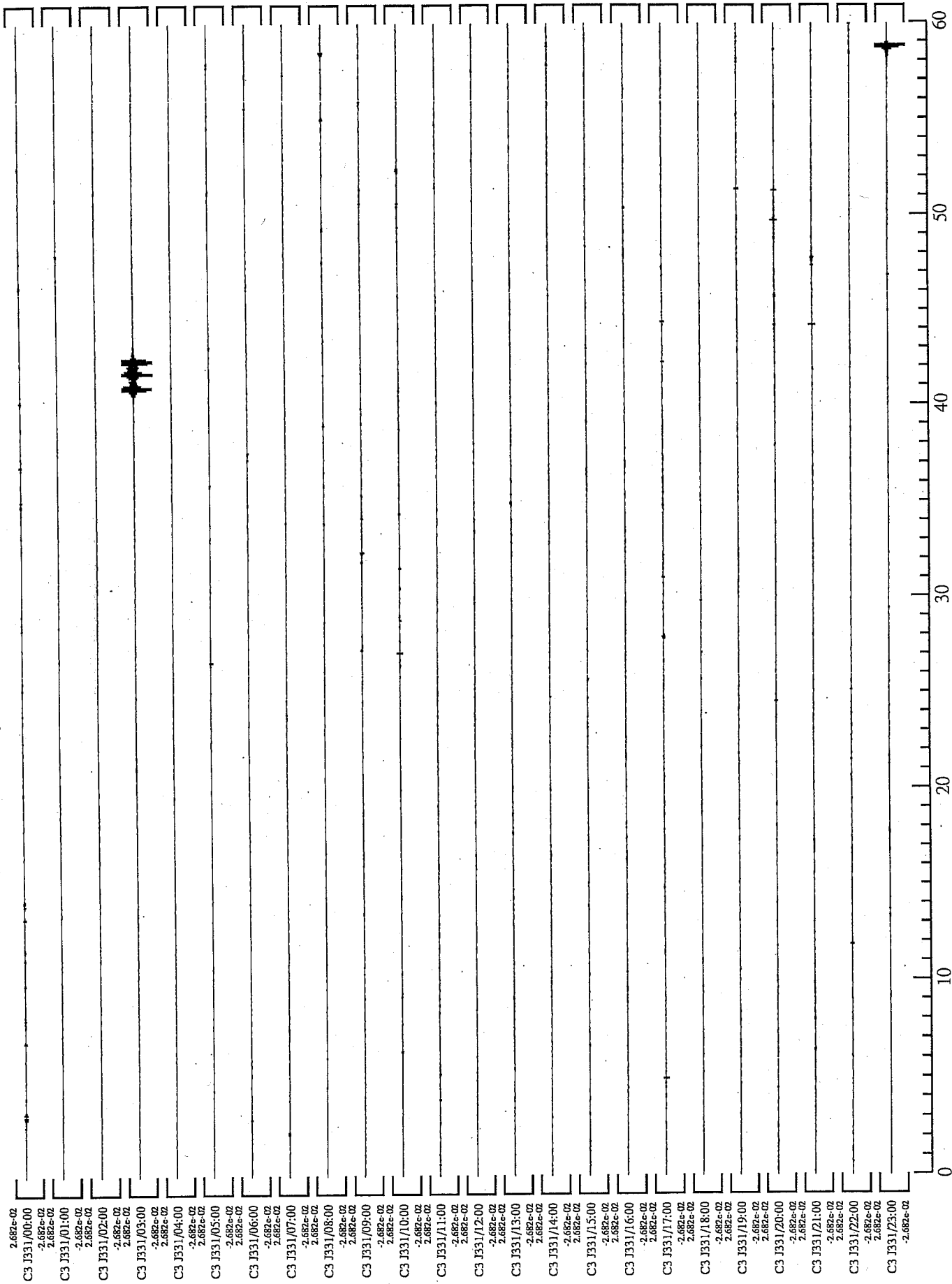


Decimation = 1234, DPI = 85, Scaled by manual



Minutes

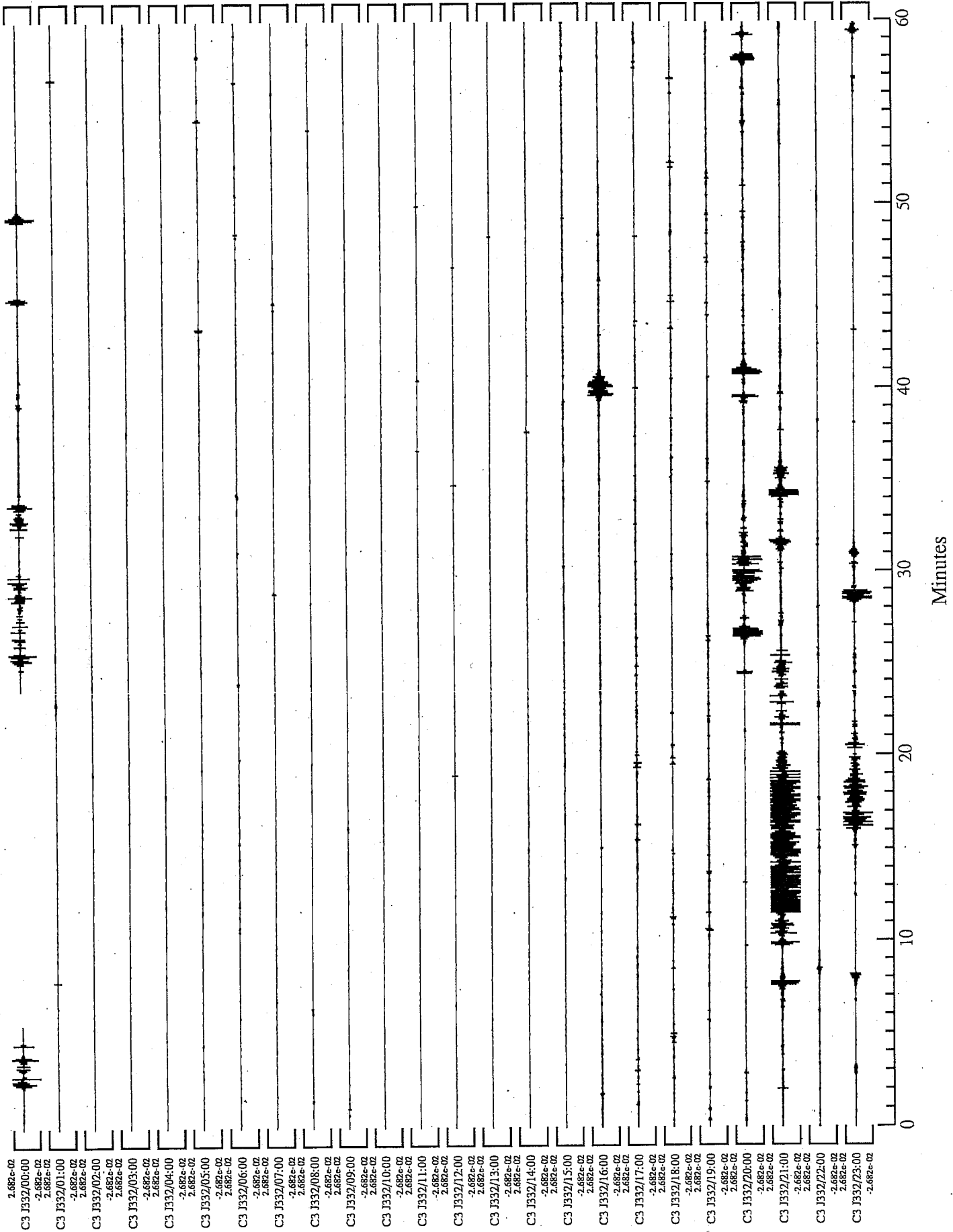
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

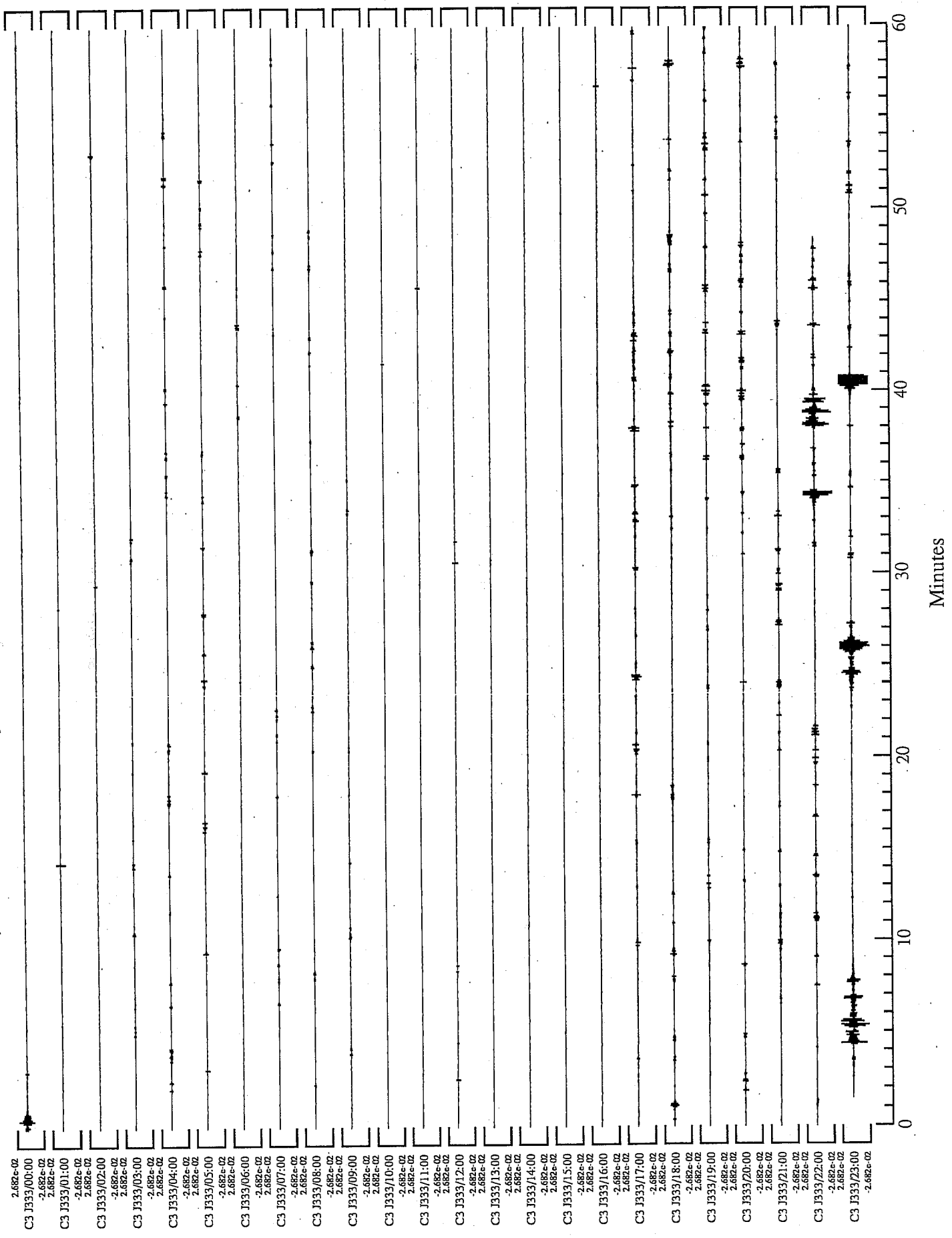
PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 8 / Start Time=1994:332:00:00

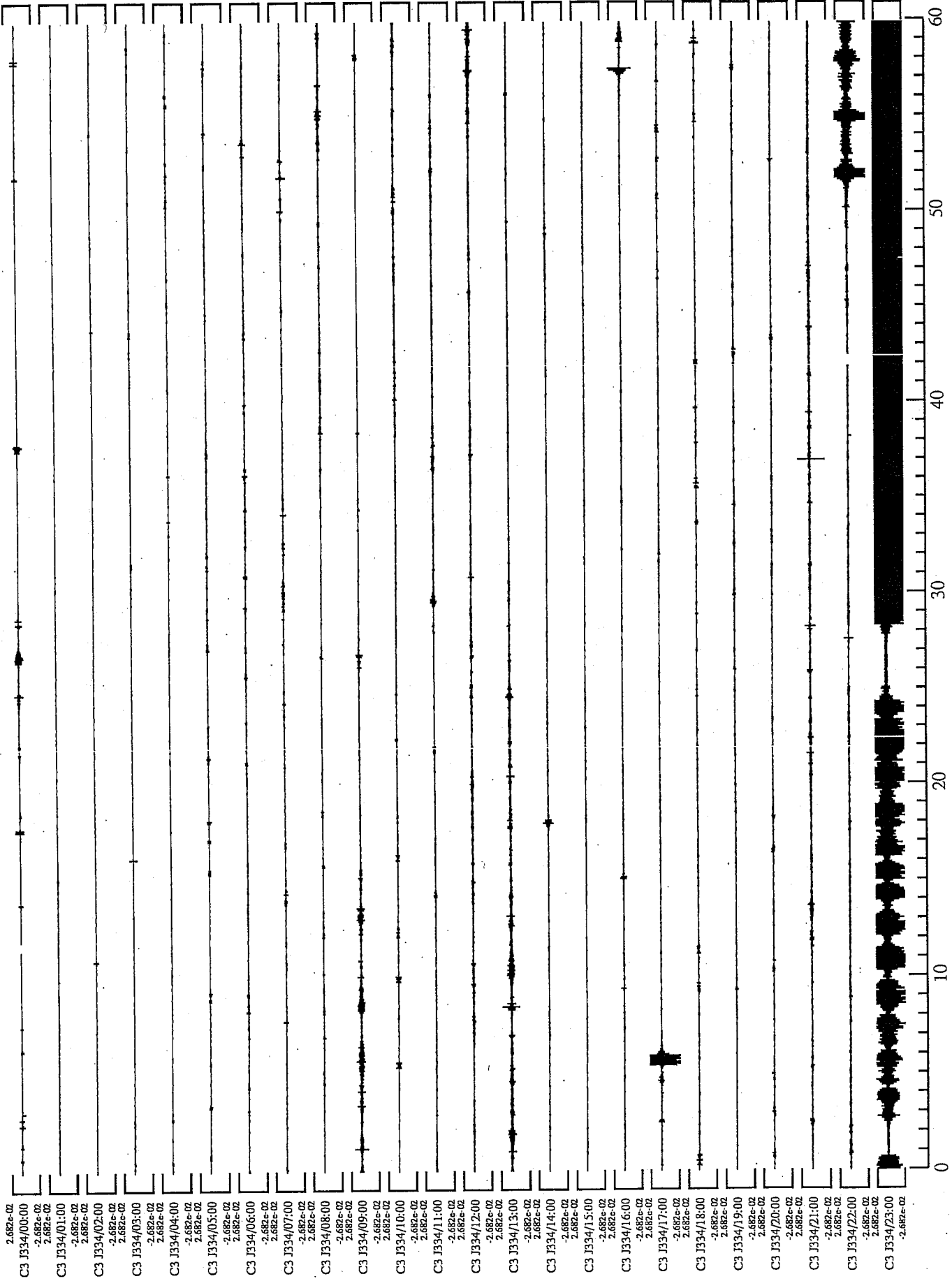
Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 8 / Start Time=1994:333:00:00

Decimation = 1234, DPI = 85, Scaled by manual

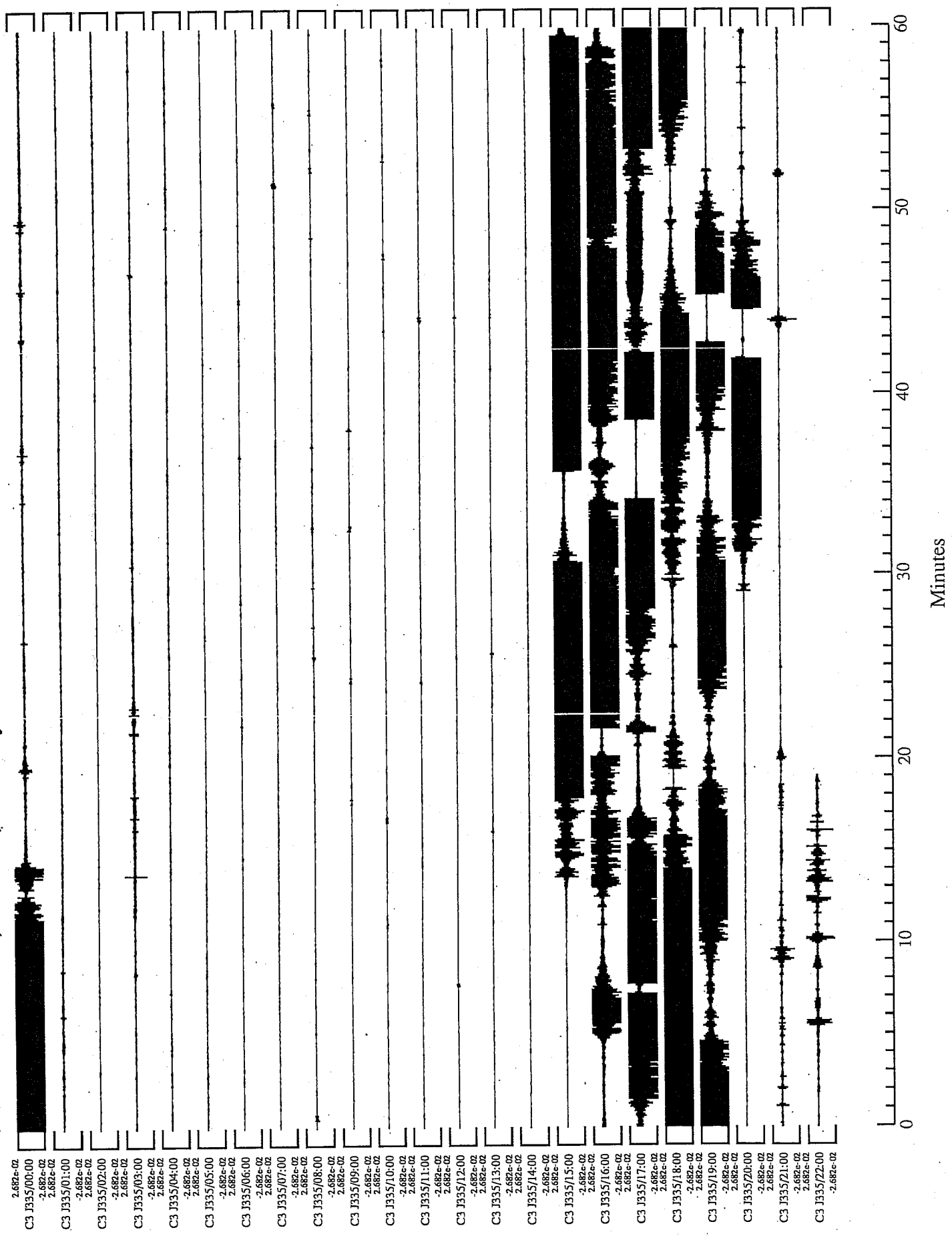




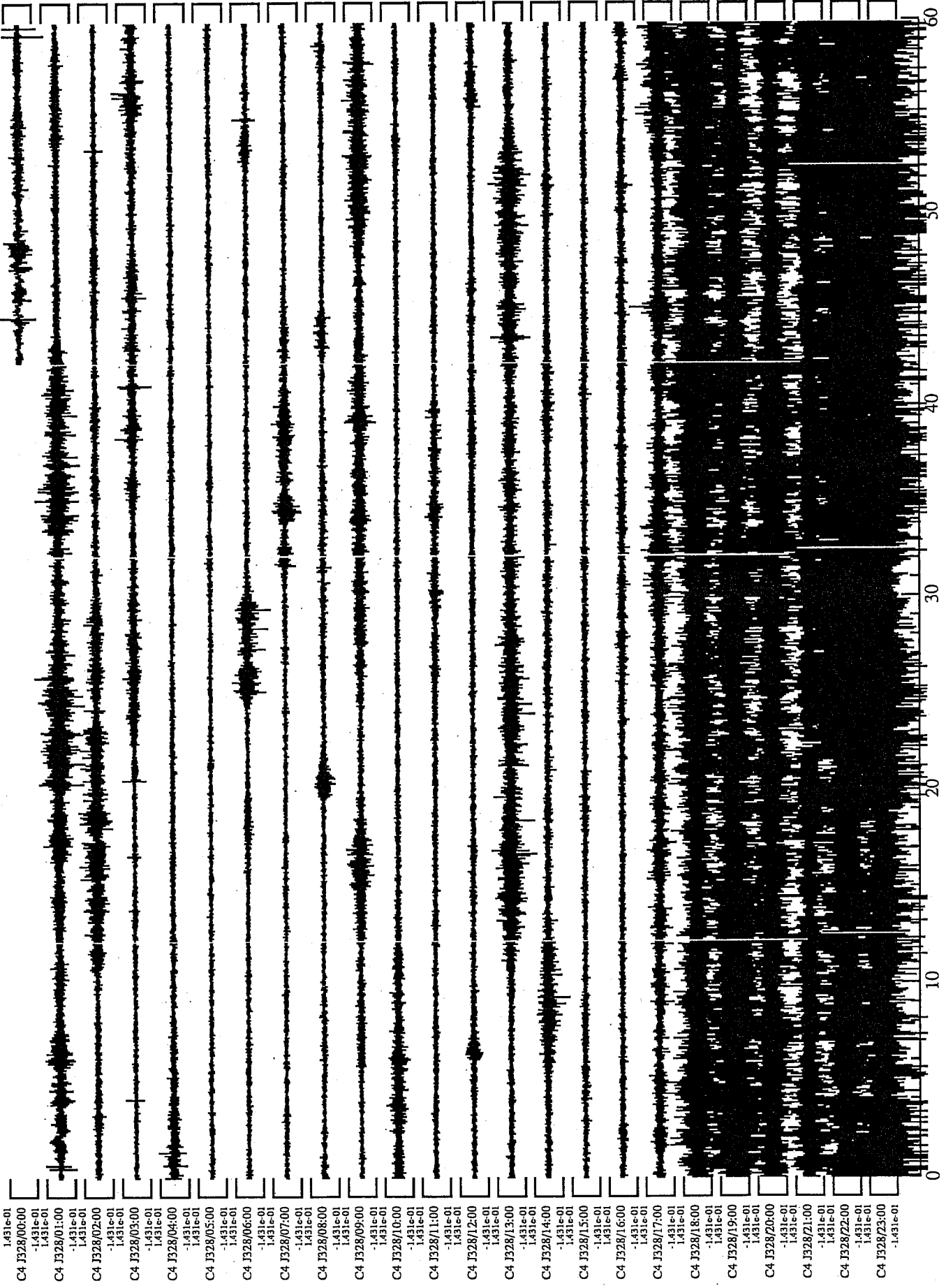
Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 8 of 8 / Start Time=1994:335:00:00

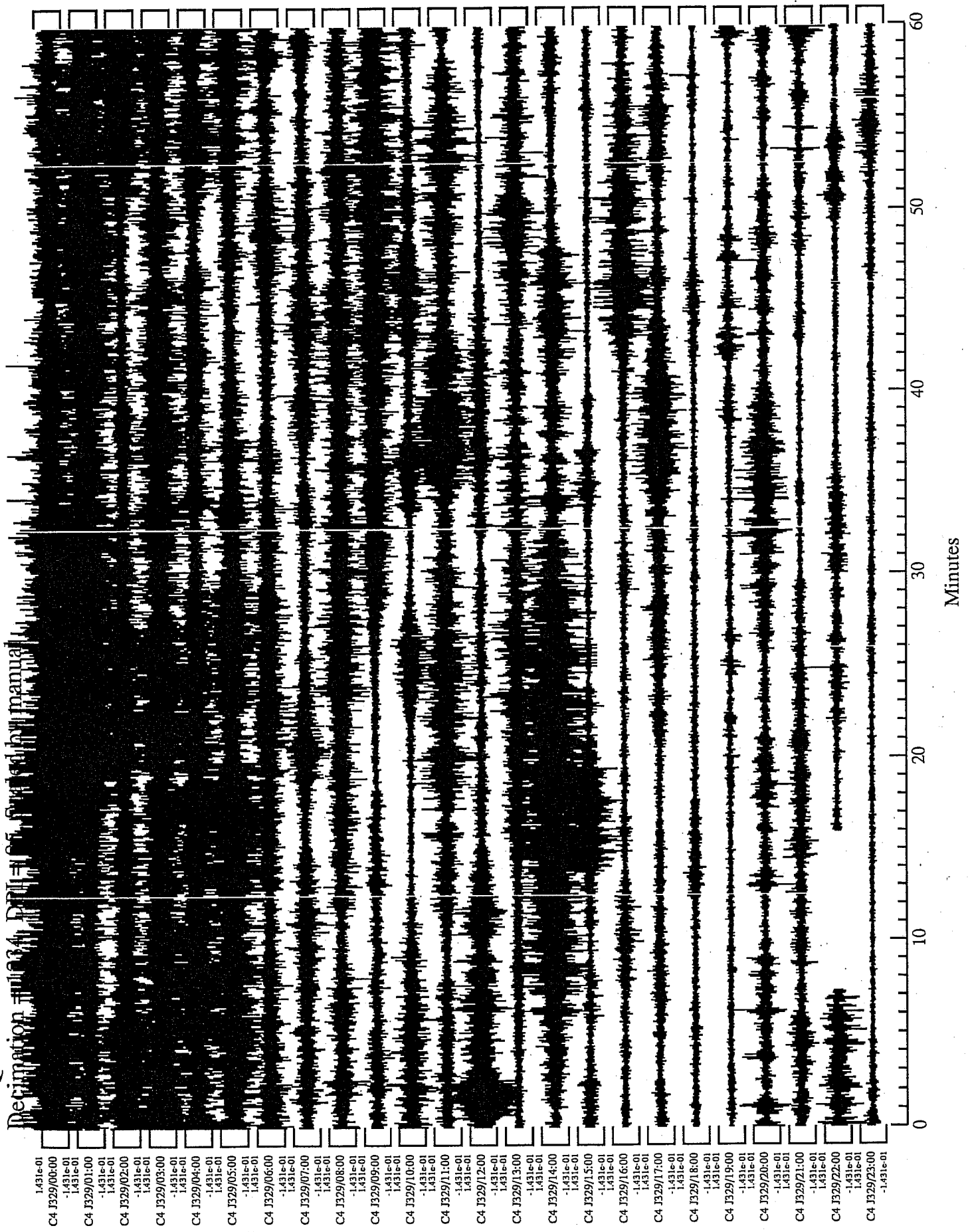
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Decimation = 1234, DPI = 85, Scaled by manual

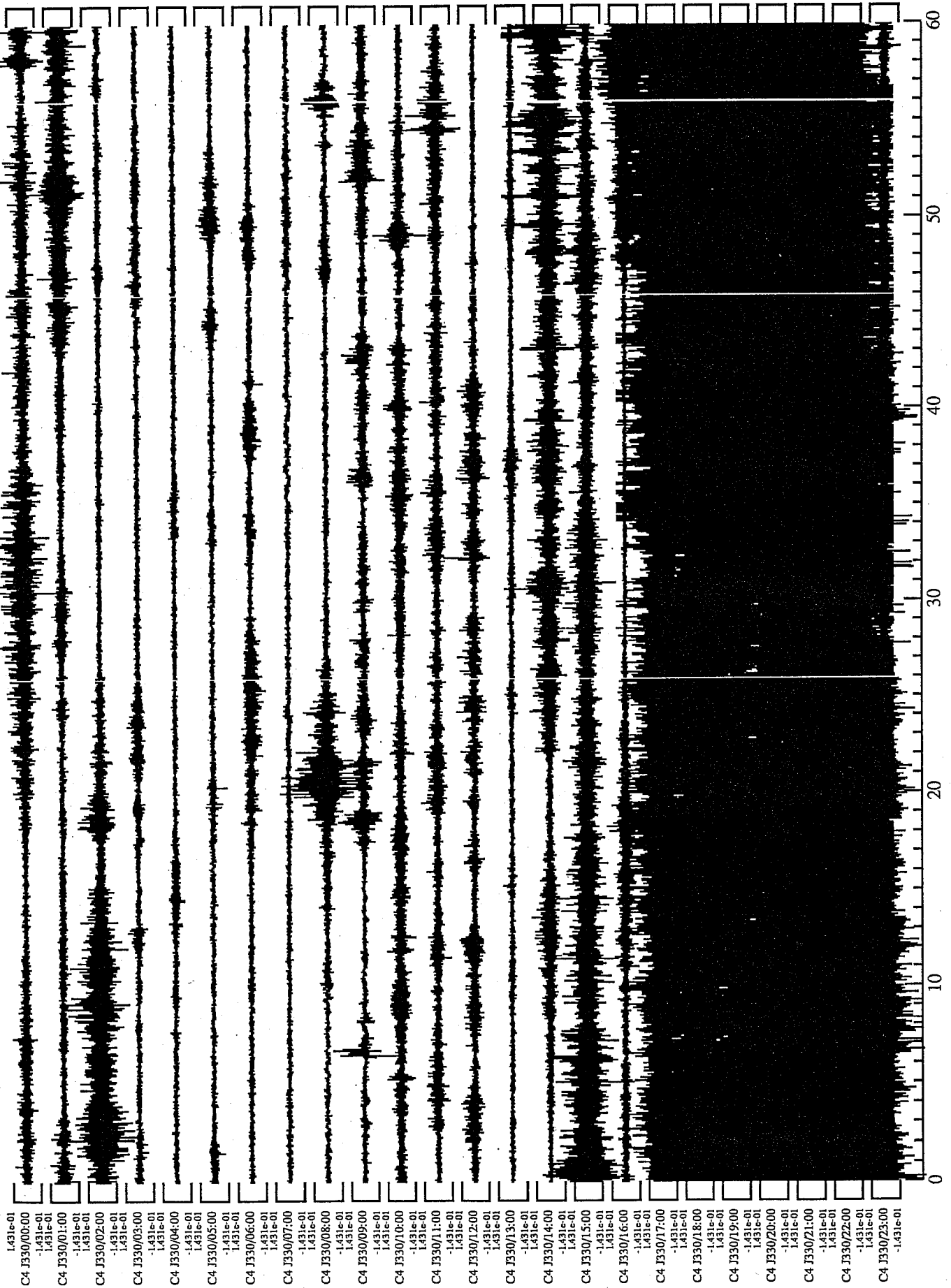


Minutes



PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 8 / Start Time=1994:330:00:00

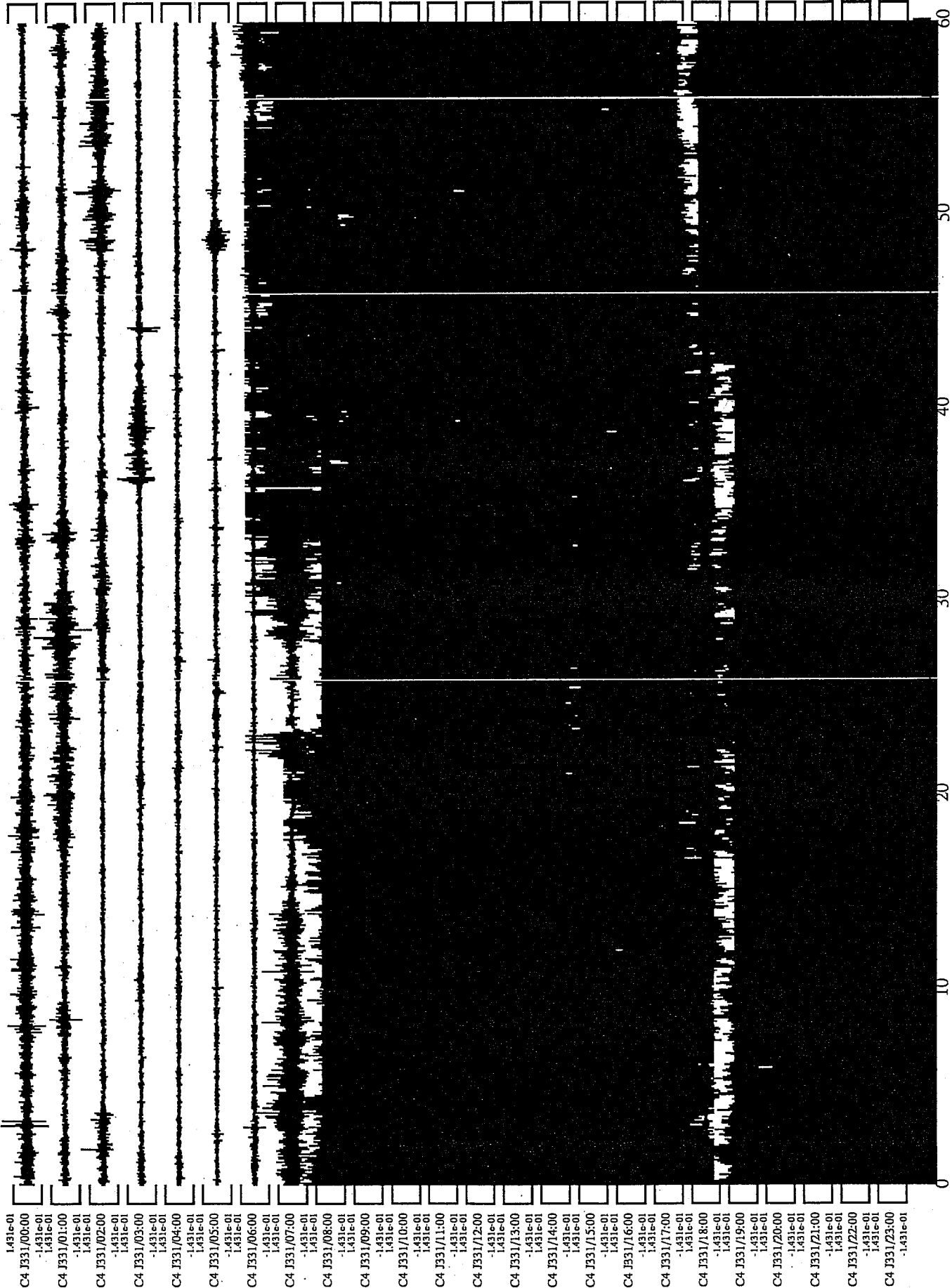
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 4 of 8 / Start Time=1994:331:00:00

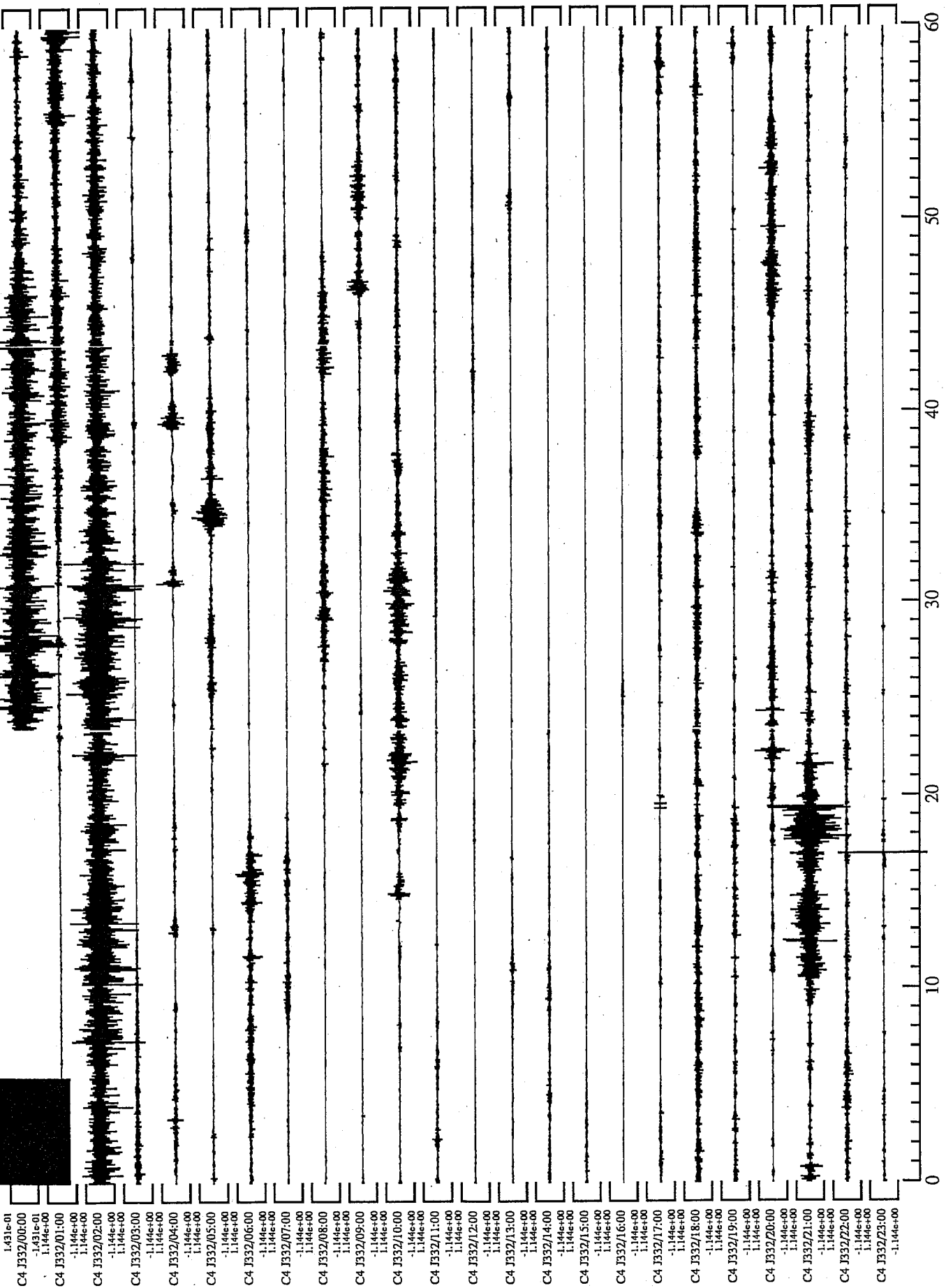
Decimation = 1234, DPI = 85, Scaled by manual



0 10 20 30 40 50 60

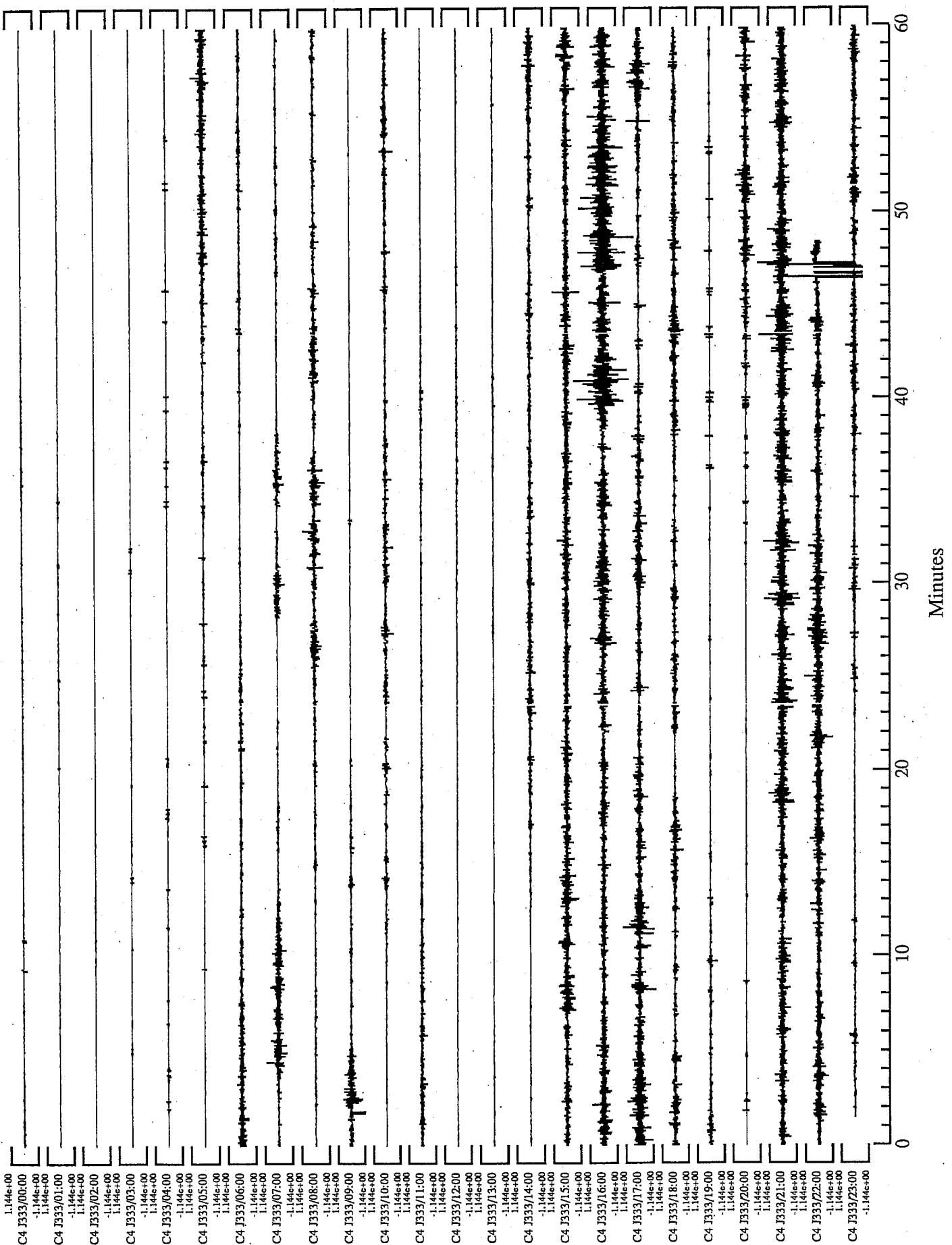
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DAS ID = 1234, DPI = 85, Scaled by manual

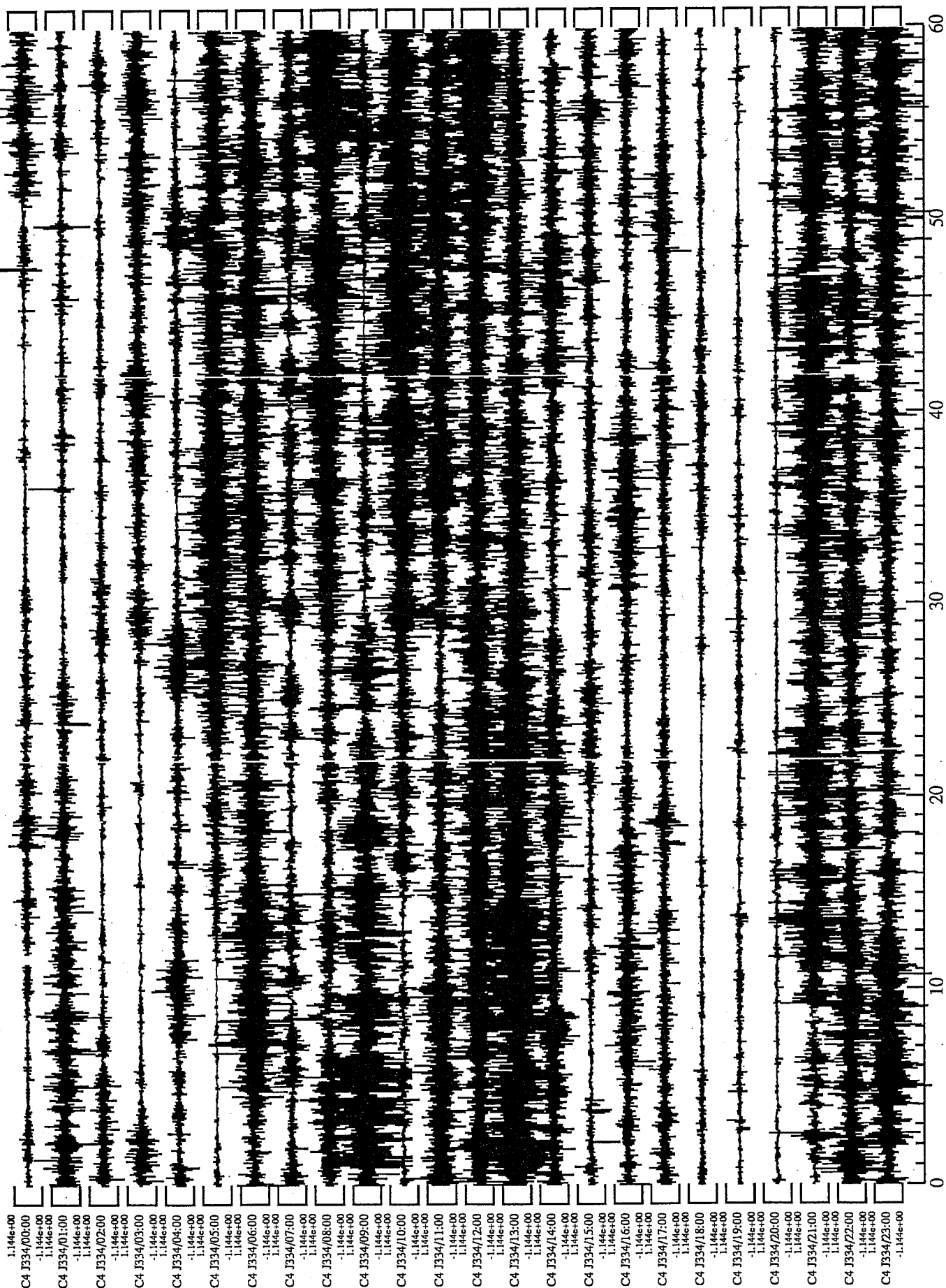


Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 8 / Start Time=1994:333:00:00
Decimation = 1234, DPI = 85, Scaled by manual



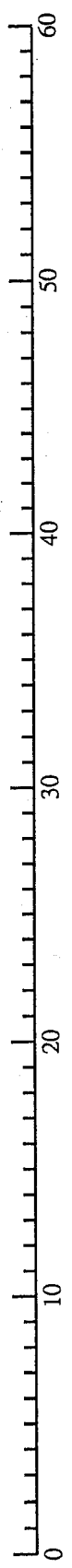
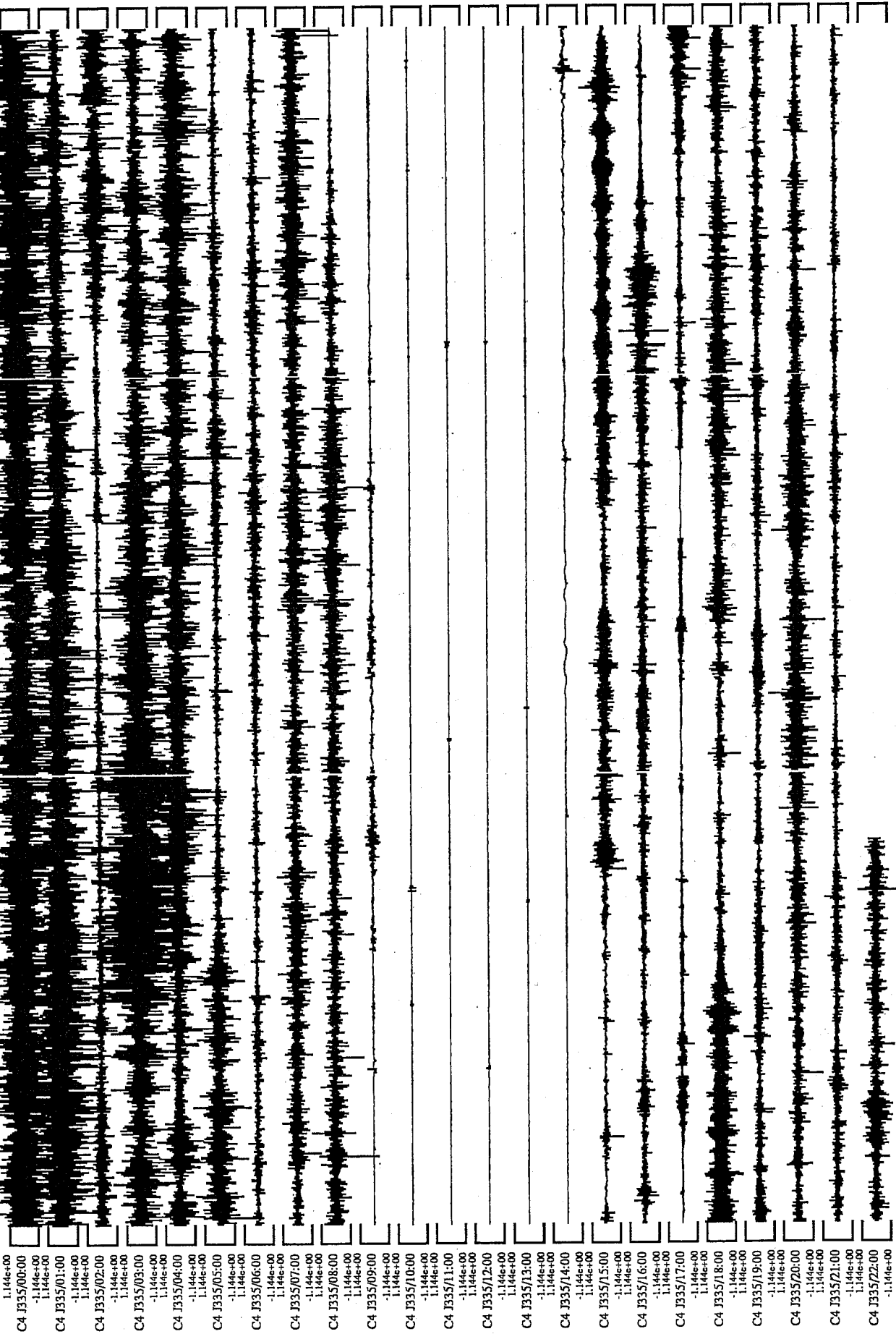
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 8 of 8 / Start Time=1994:335:00:00

Decimation # 1234, DPI = 85, Scaled by manual



Minutes

Time Series Plots

LIGO Southwest End

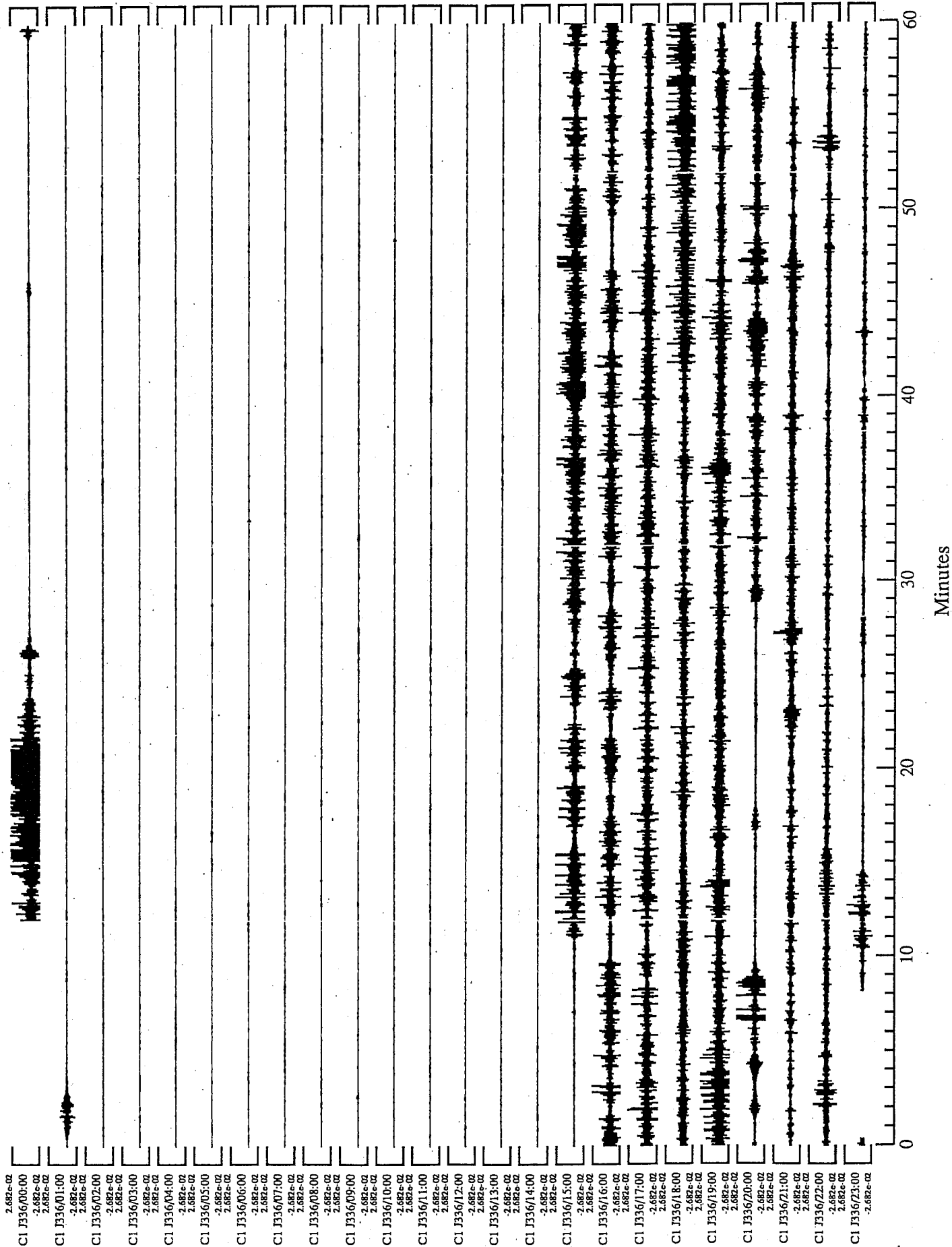
Day 336 Channel 1 - Vertical
Day 337 Channel 1 - Vertical
Day 338 Channel 1 - Vertical
Day 339 Channel 1 - Vertical
Day 340 Channel 1 - Vertical
Day 341 Channel 1 - Vertical

Day 336 Channel 2 - Northwest Horizontal
Day 337 Channel 2 - Northwest Horizontal
Day 338 Channel 2 - Northwest Horizontal
Day 339 Channel 2 - Northwest Horizontal
Day 340 Channel 2 - Northwest Horizontal
Day 341 Channel 2 - Northwest Horizontal

Day 336 Channel 3 - Southwest Horizontal
Day 337 Channel 3 - Southwest Horizontal
Day 338 Channel 3 - Southwest Horizontal
Day 339 Channel 3 - Southwest Horizontal
Day 340 Channel 3 - Southwest Horizontal
Day 341 Channel 3 - Southwest Horizontal

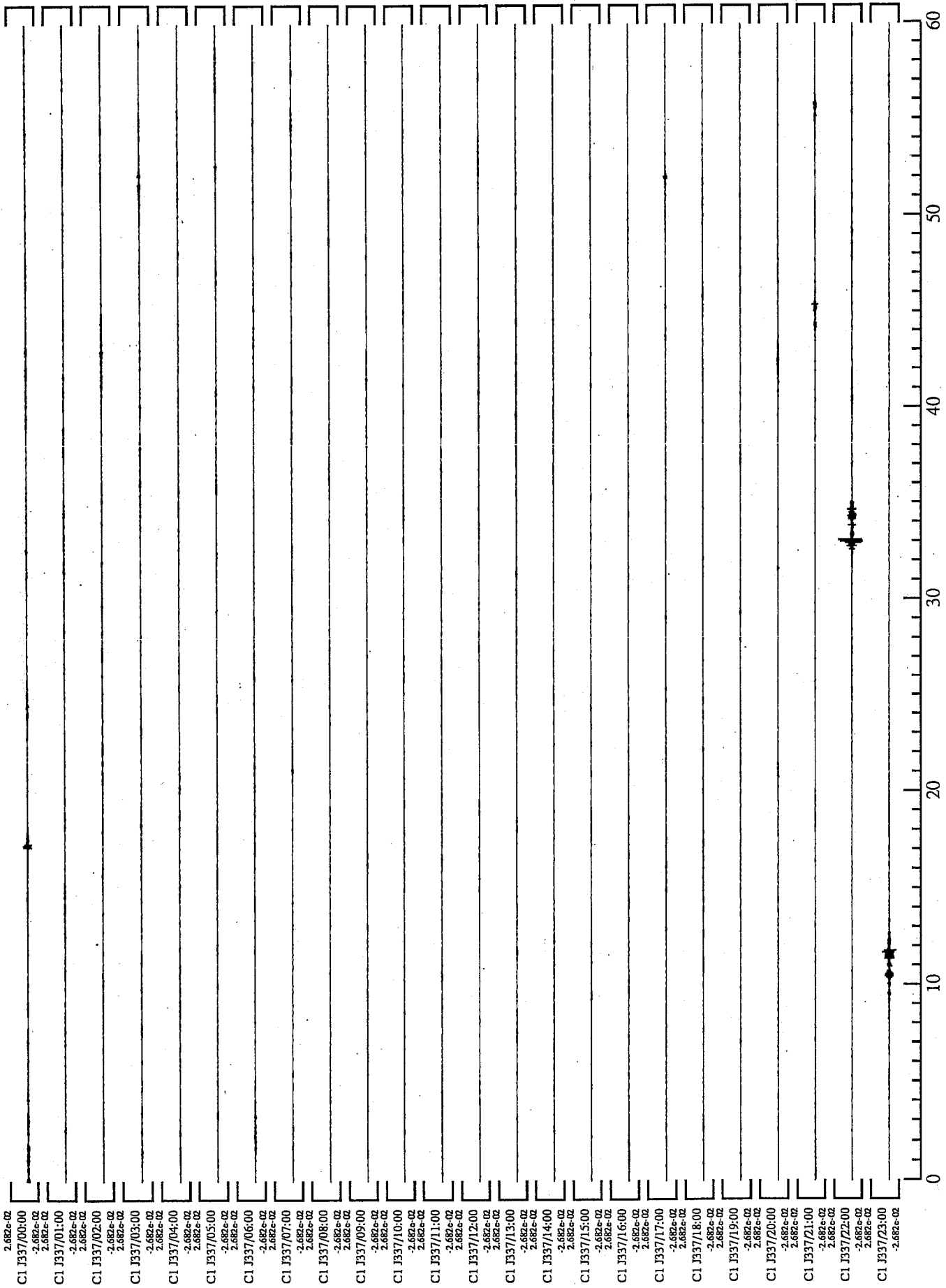
Day 336 Channel 4 - Infrasound Pressure
Day 337 Channel 4 - Infrasound Pressure
Day 338 Channel 4 - Infrasound Pressure
Day 339 Channel 4 - Infrasound Pressure
Day 340 Channel 4 - Infrasound Pressure
Day 341 Channel 4 - Infrasound Pressure

Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 6 / Start Time=1994:337:00:00

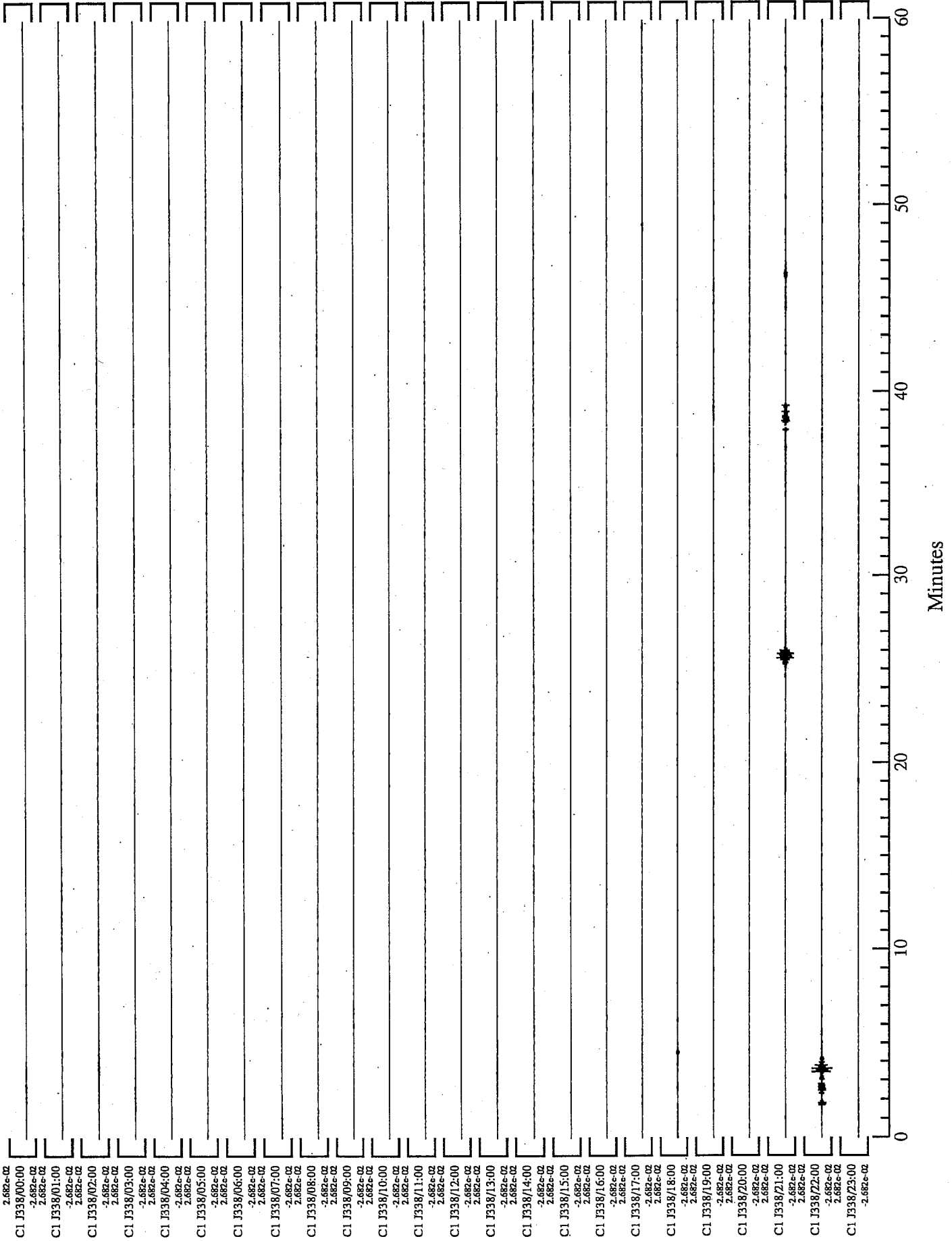
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

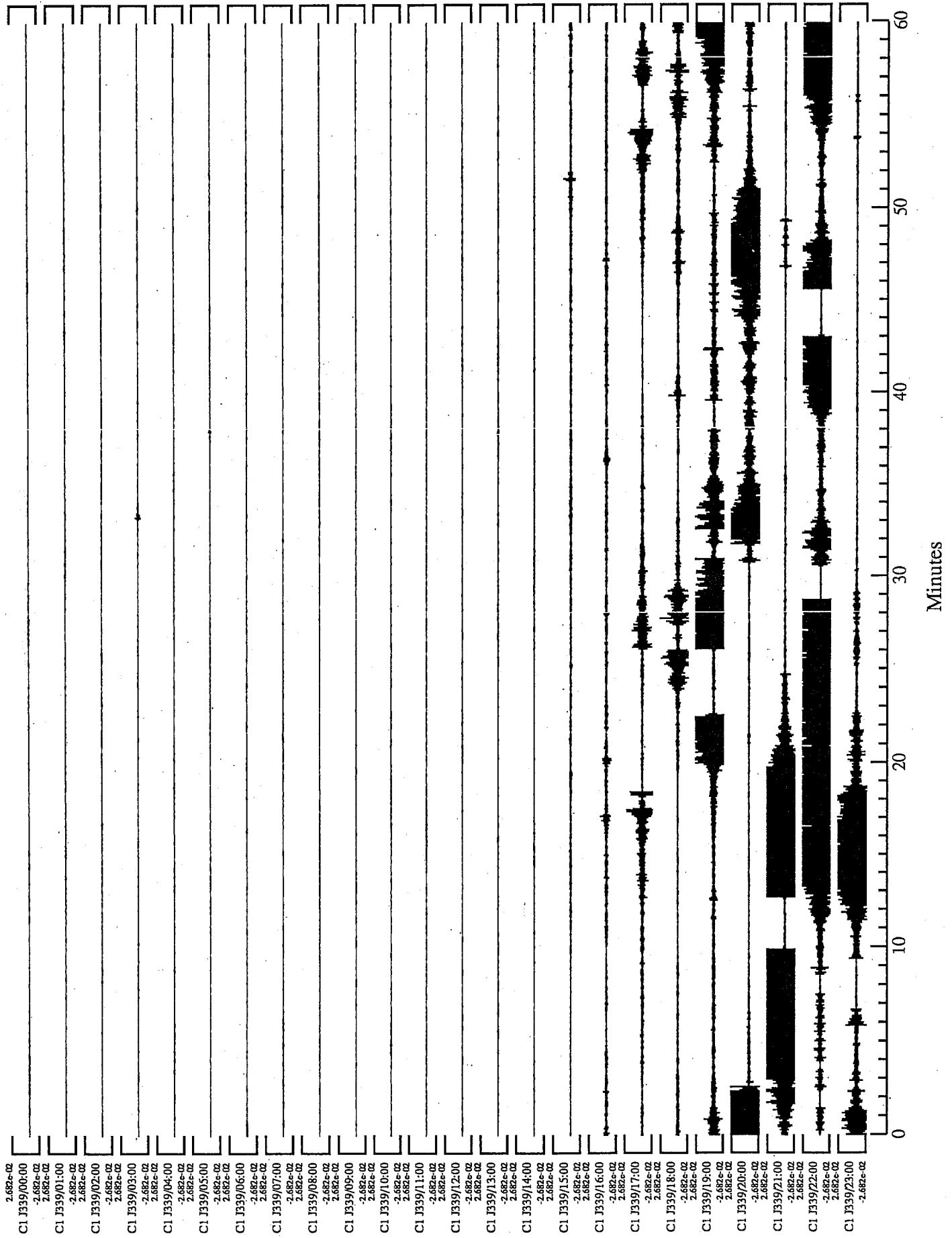
PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 6 / Start Time=1994:338:00:00

Decimation = 1234, DPI = 85, Scaled by manual



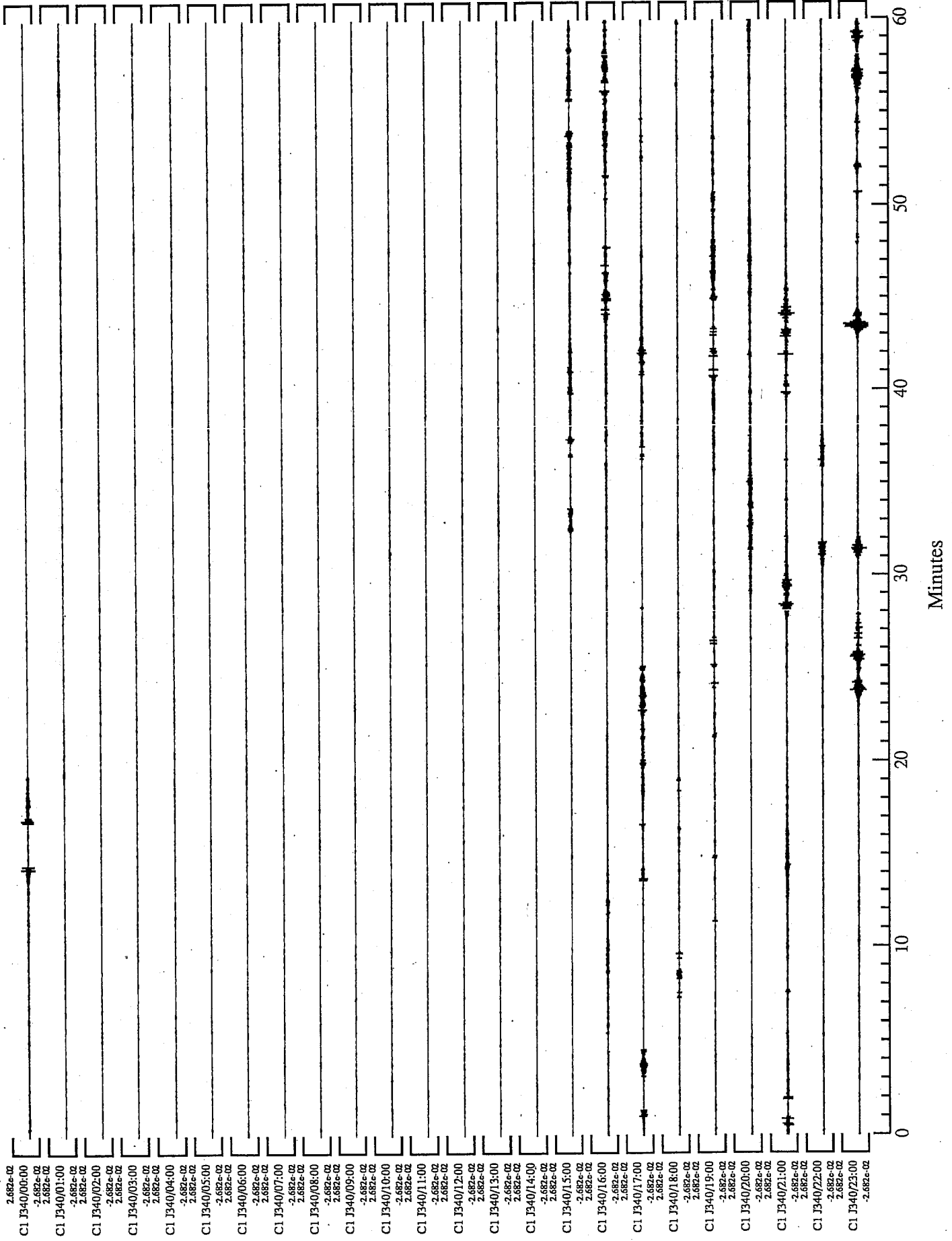
PSQL REFTEK DATA PLOT: DAS 0662 / Page 4 of 6 / Start Time=1994:339:00:00

Decimation = 1234, DPI = 85, Scaled by manual

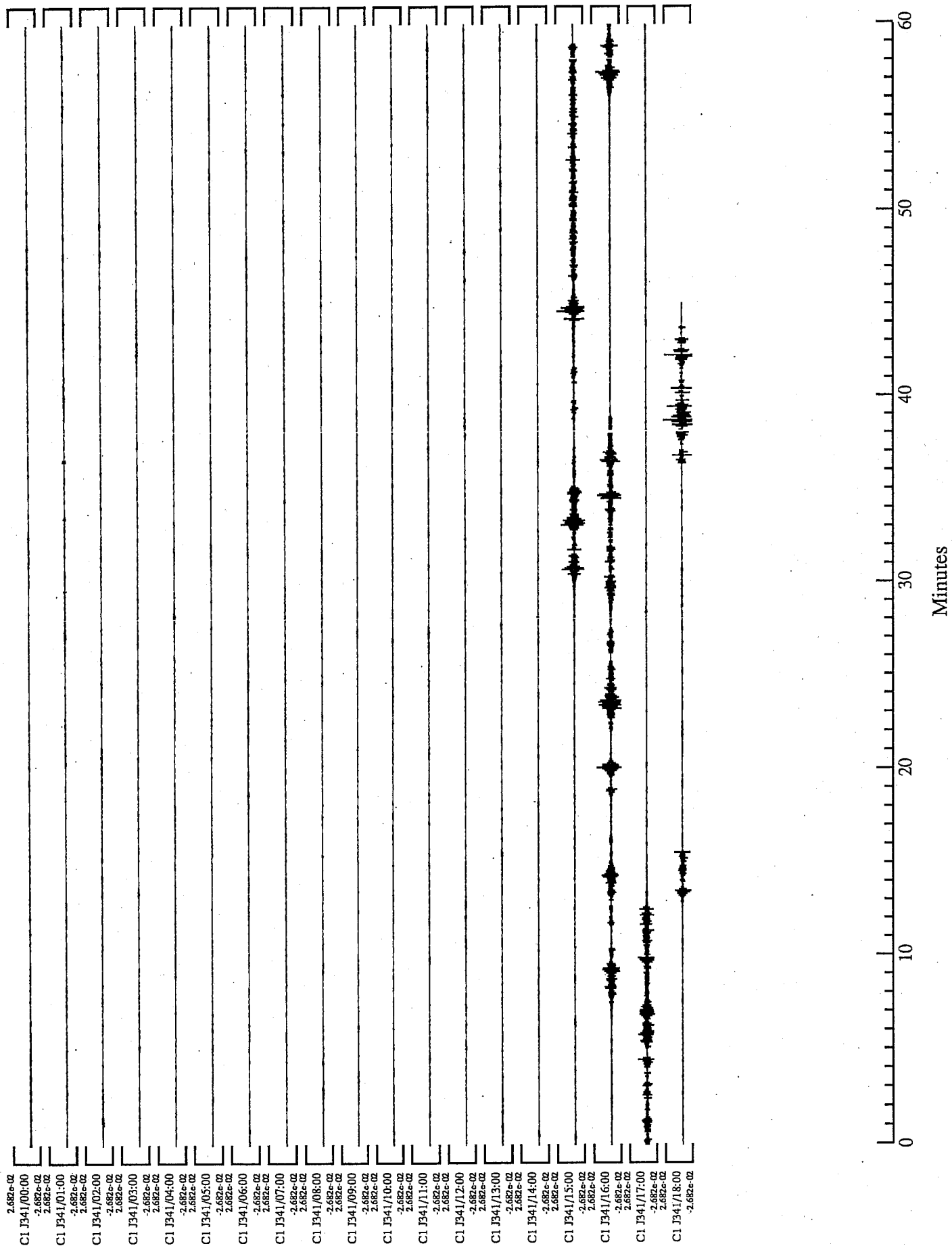


PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 6 / Start Time=1994:340:00:00

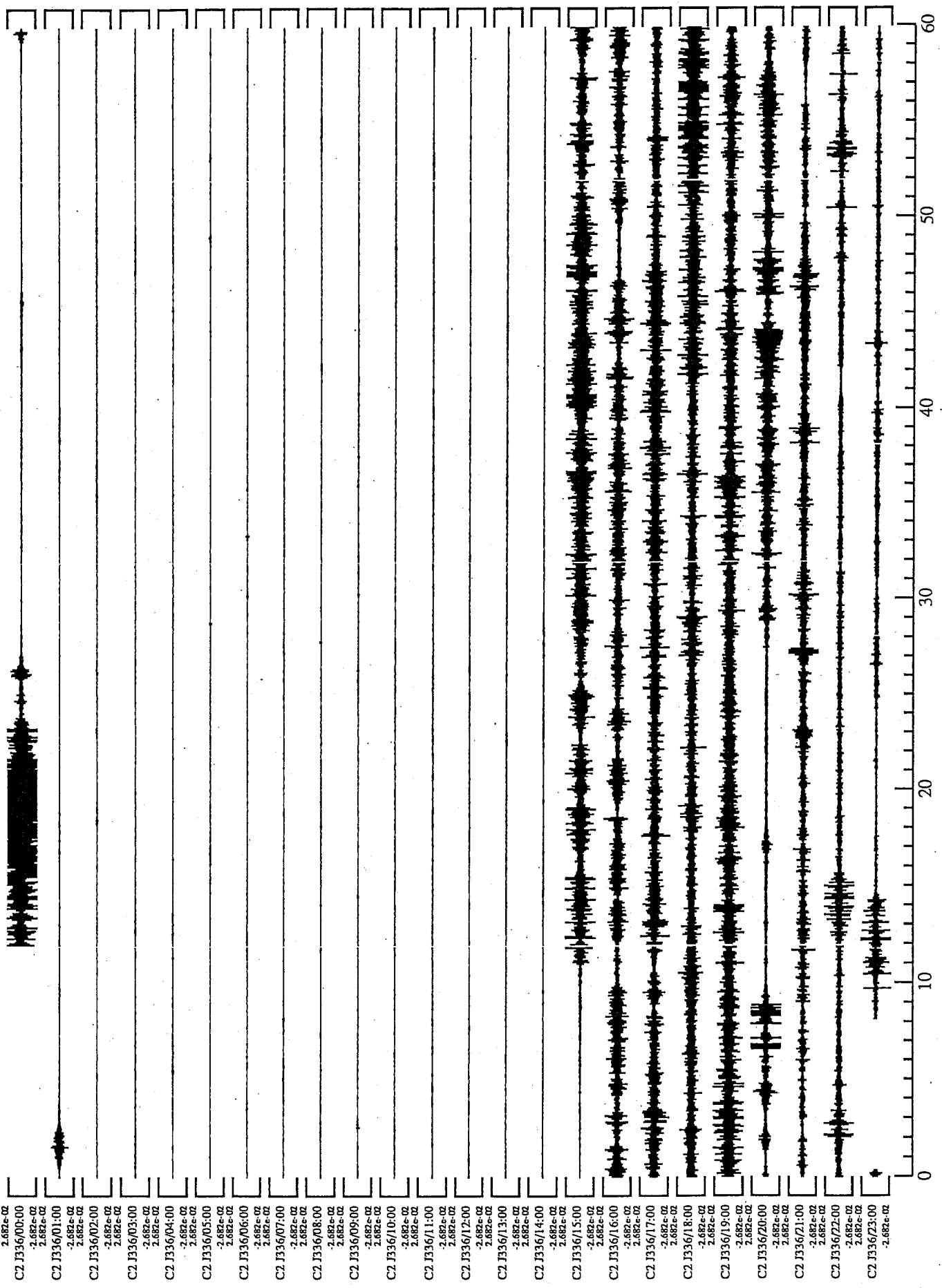
Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 6 / Start Time=1994:341:00:00
Decimation = 1234, DPI = 85, Scaled by manual



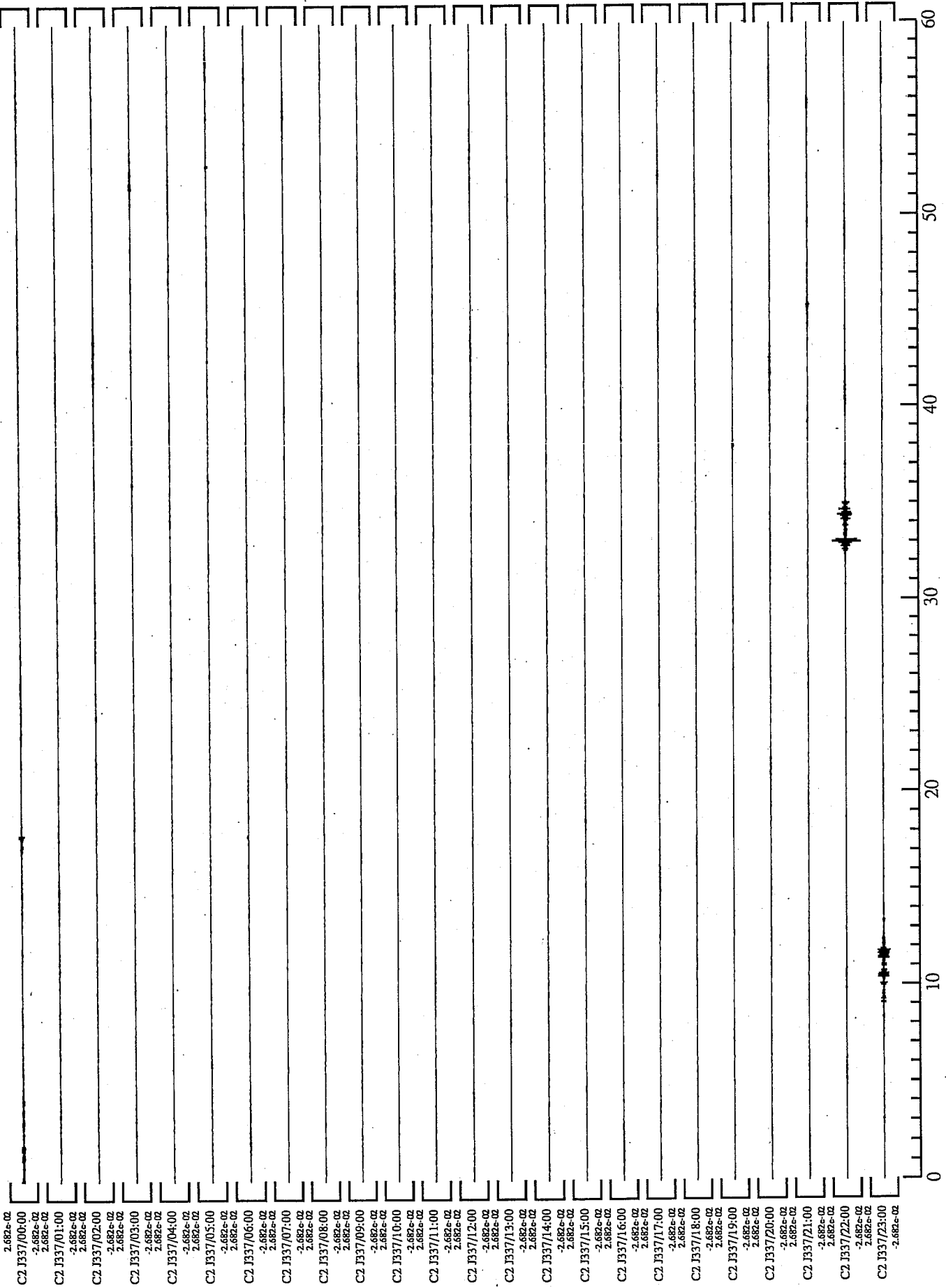
PSQL REFTEK DATA PLOT: DAS 0662 / Page 1 of 6 / Start Time=1994:336:00:00
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

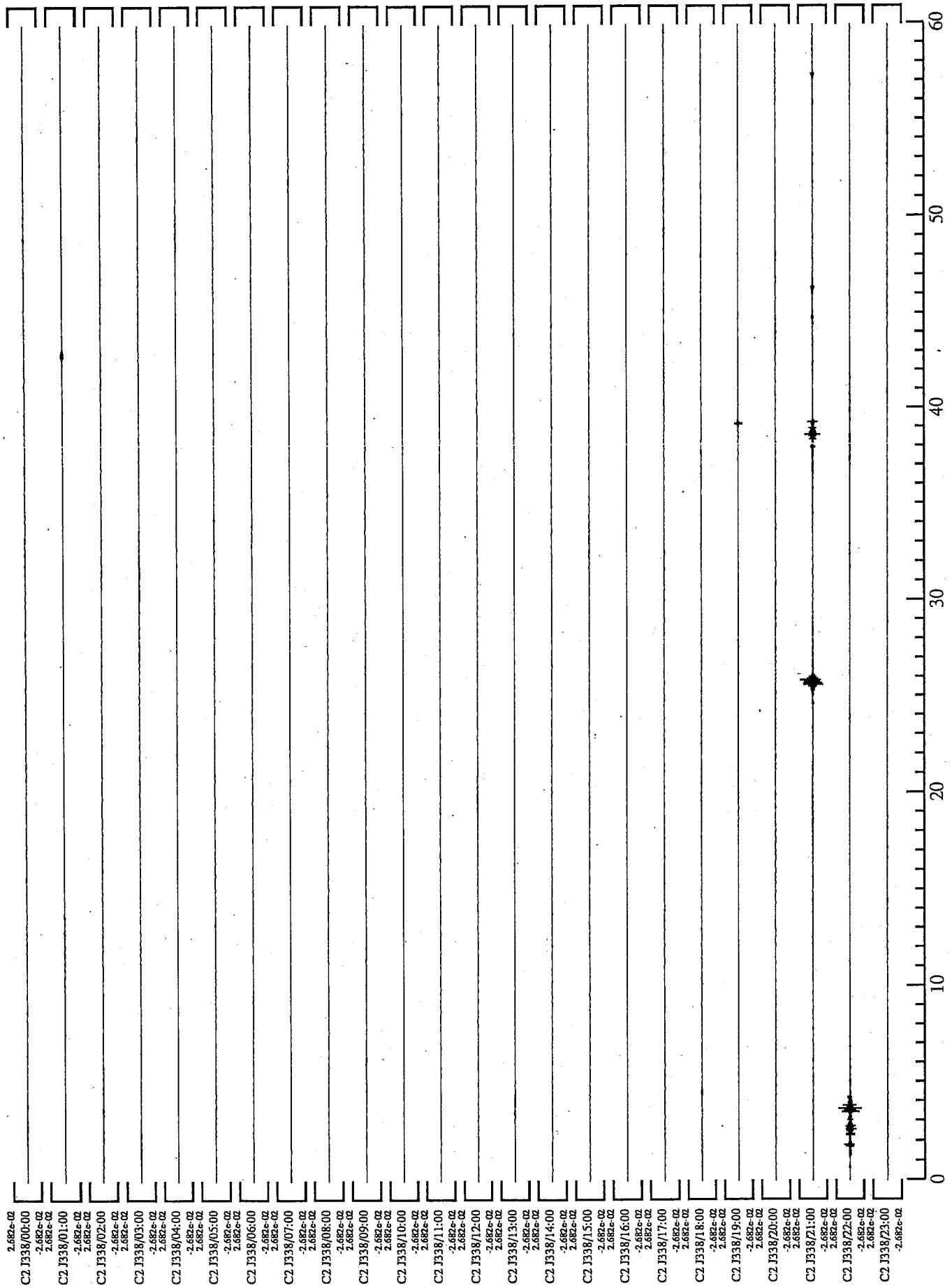
PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 6 / Start Time=1994:337:00:00

Decimation = 1234, DPI = 85, Scaled by manual



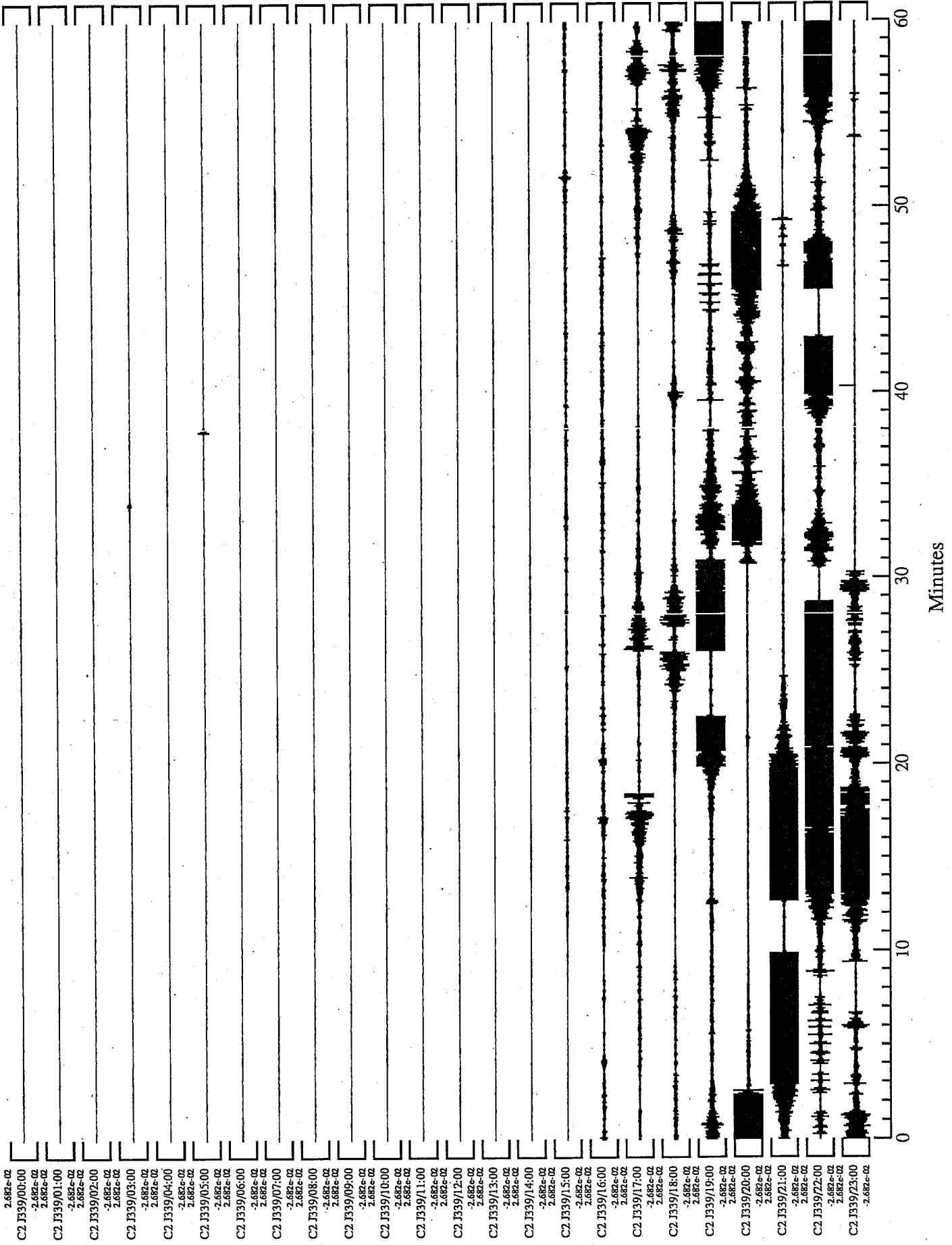
Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 6 / Start Time=1994:338:00:00
Decimation = 1234, DPI = 85, Scaled by manual



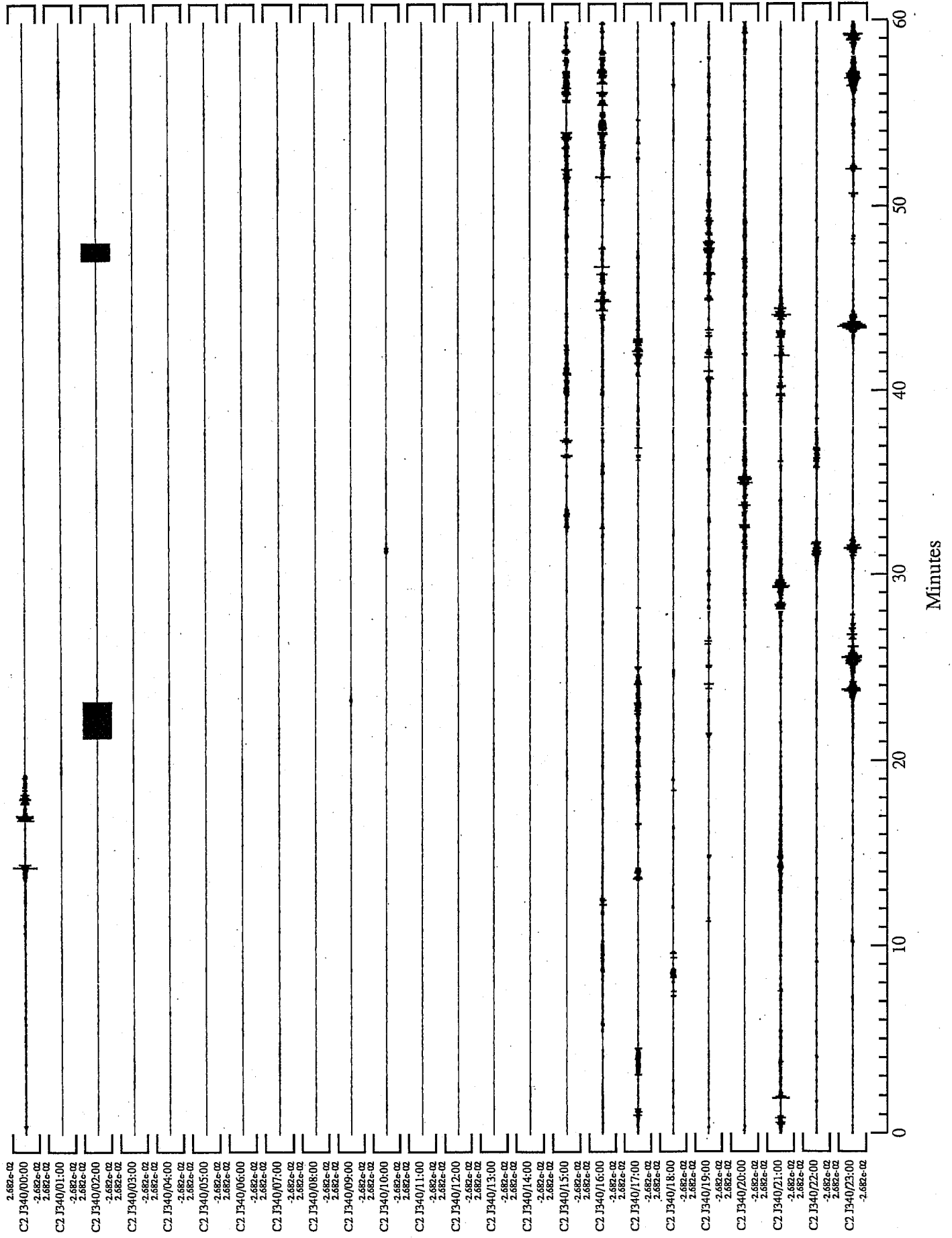
Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 4 of 6 / Start Time=1994:339:00:00
Decimation = 1234, DPI = 85, Scaled by manual

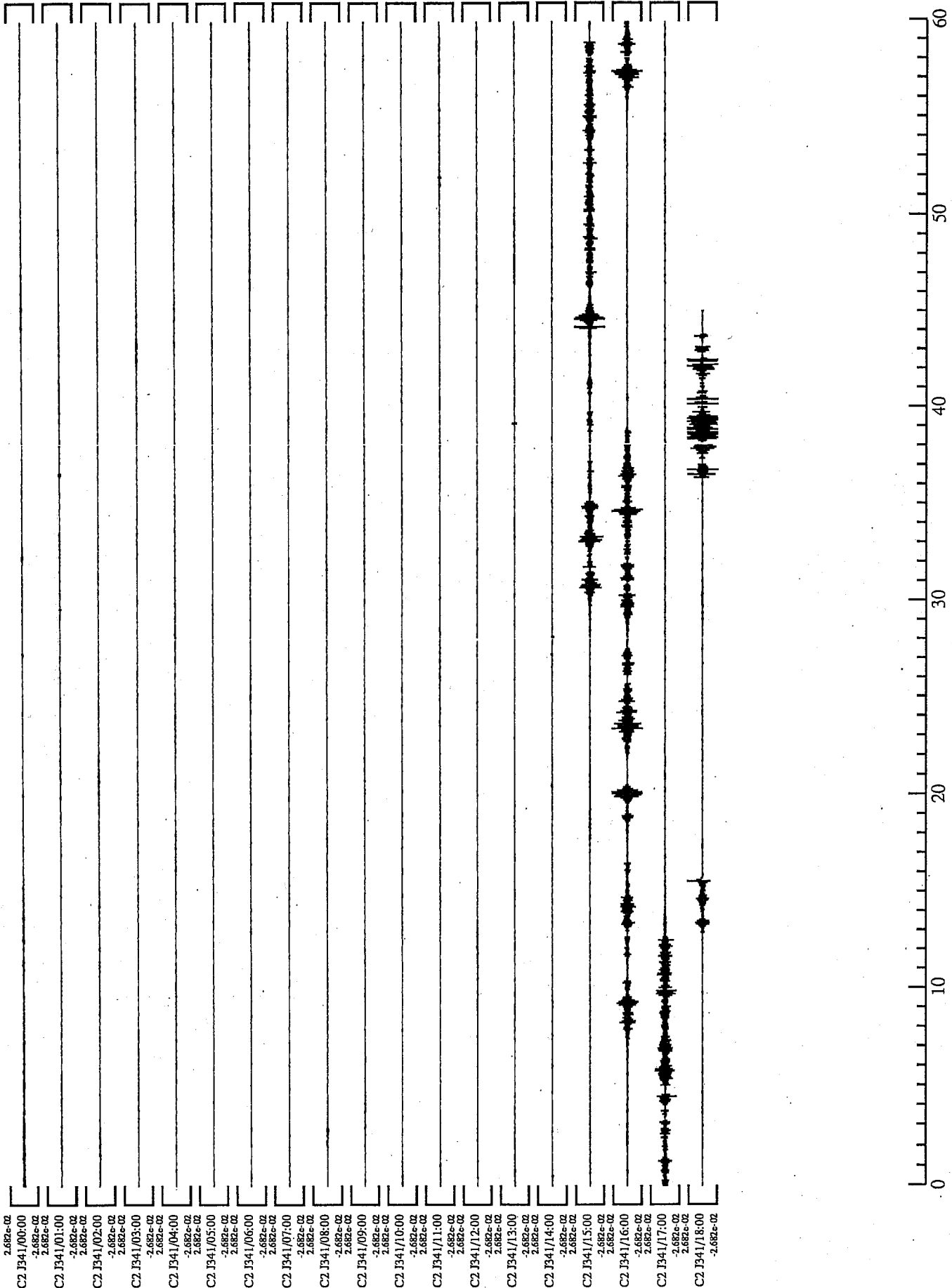


PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 6 / Start Time=1994:340:00:00

Decimation = 1234, DPI = 85, Scaled by manual



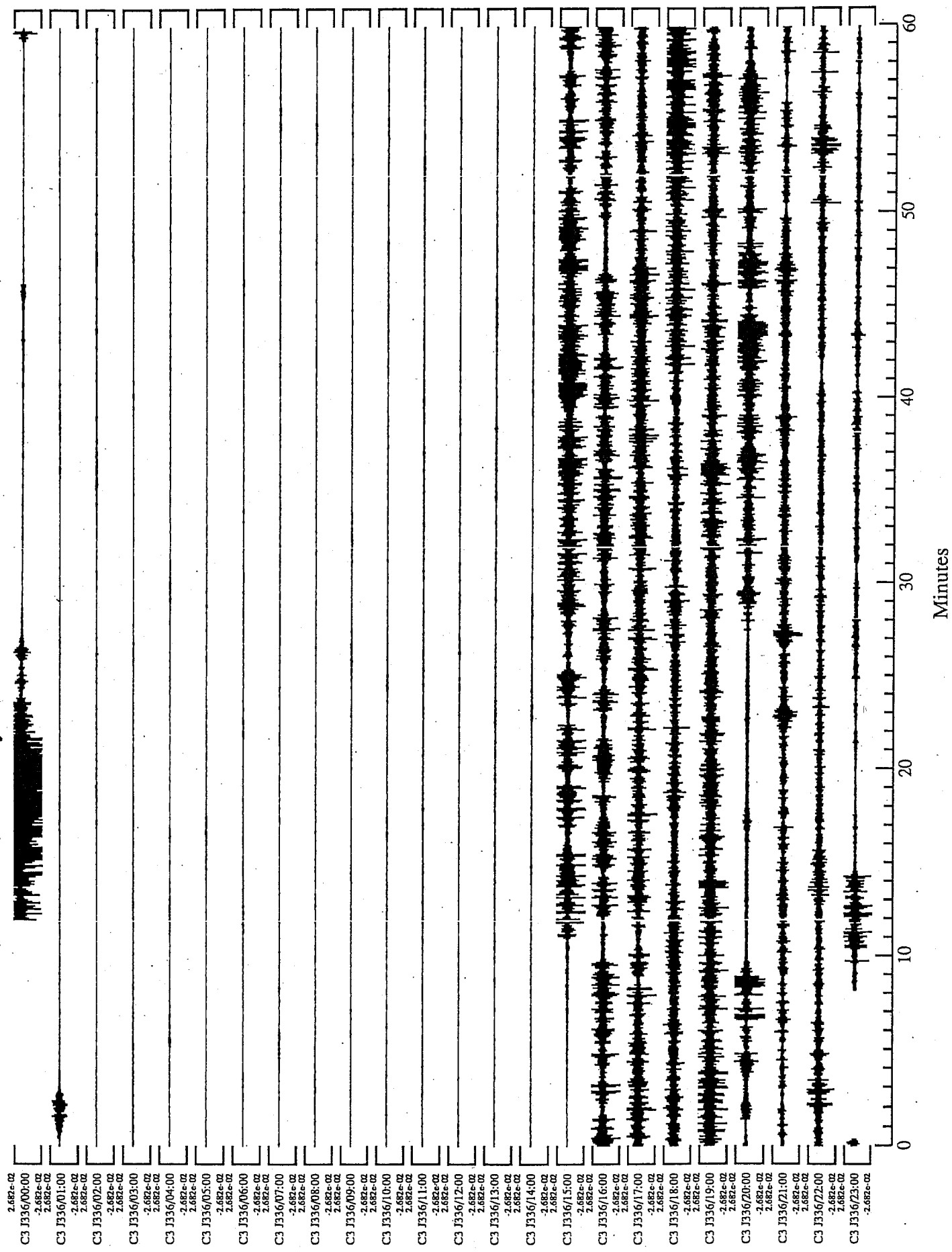
PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 6 / Start Time=1994:341:00:00
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 1 of 6 / Start Time=1994:336:00:00

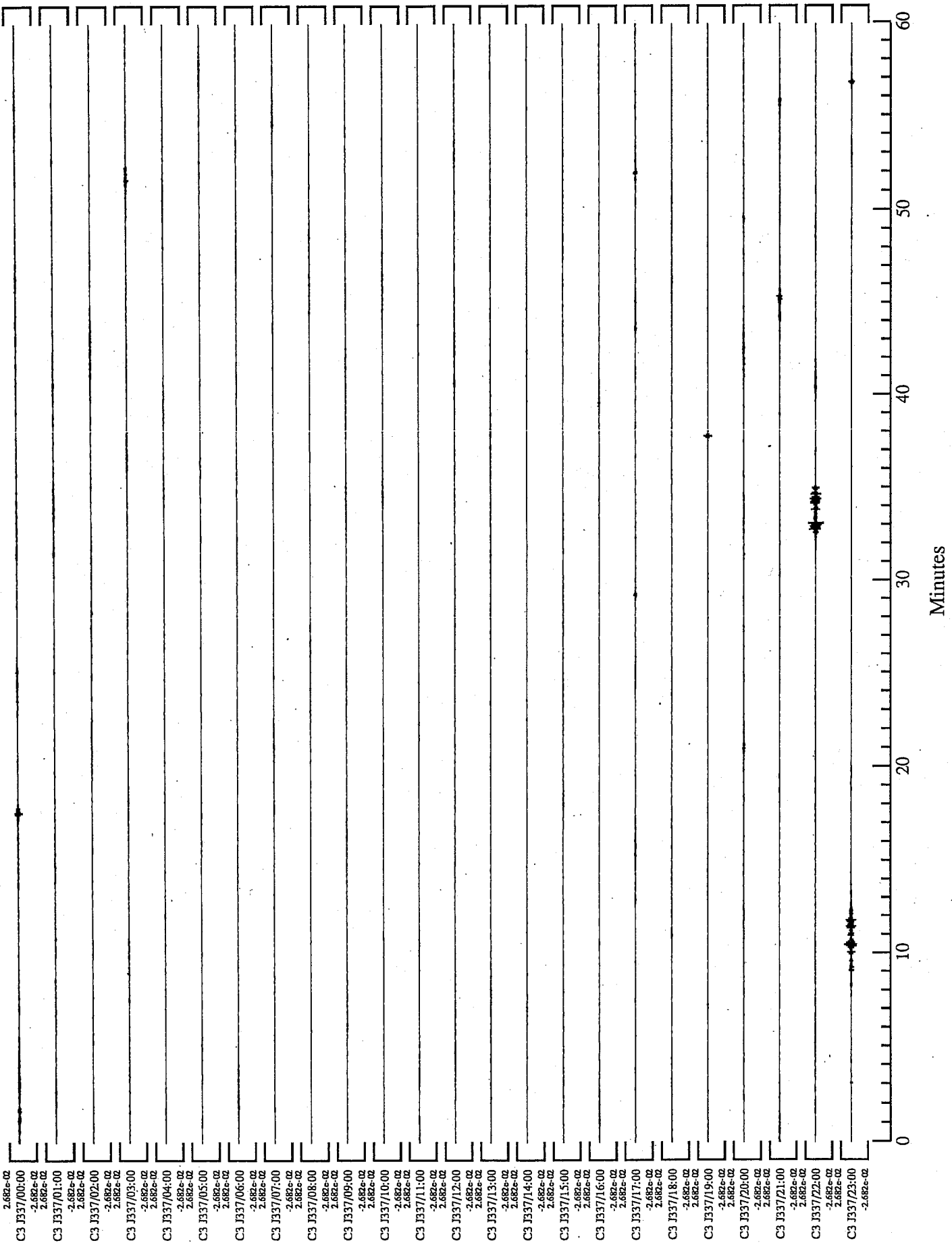
Decimation = 1234, DPI = 85, Scaled by manual



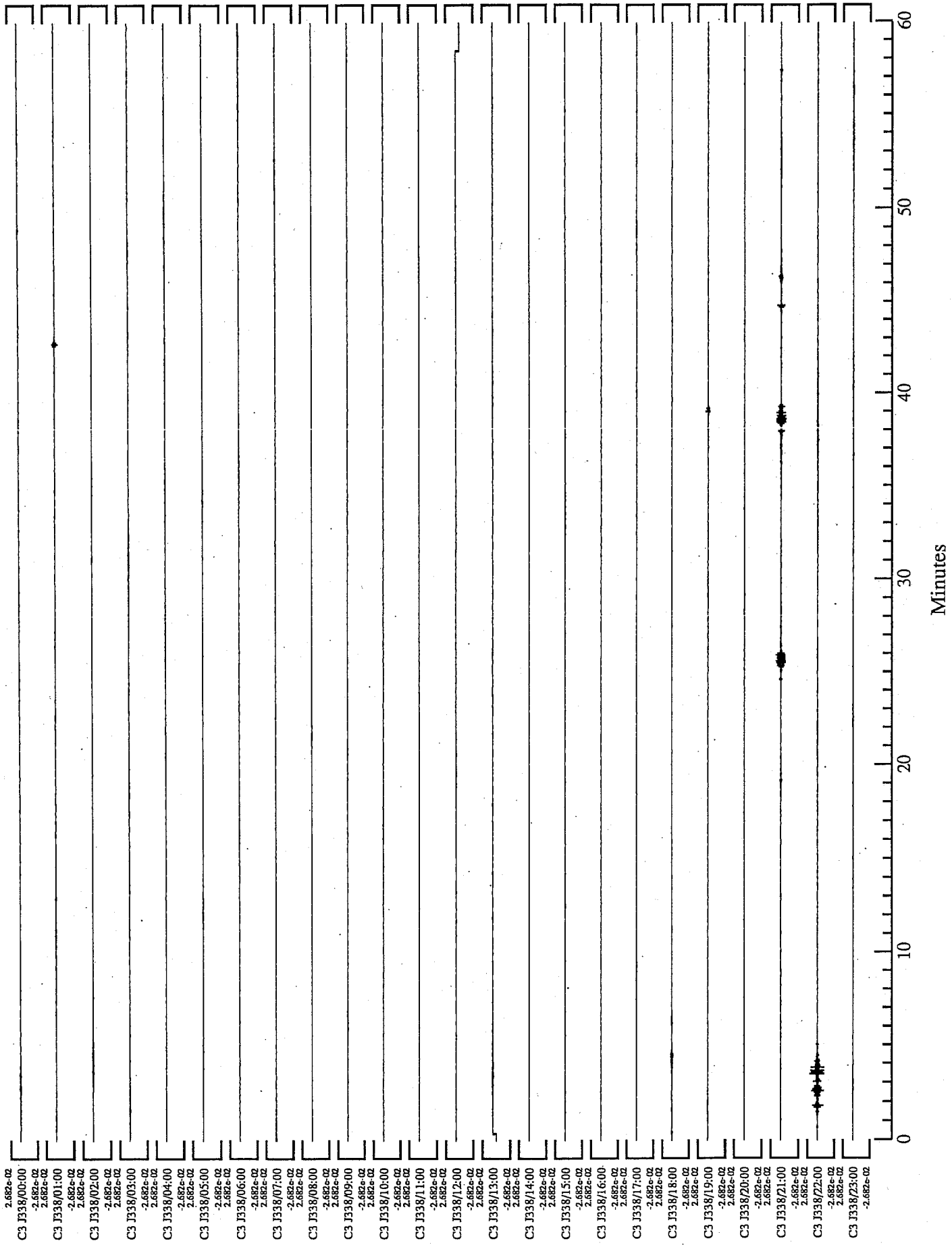
Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 6 / Start Time=1994:337:00:00

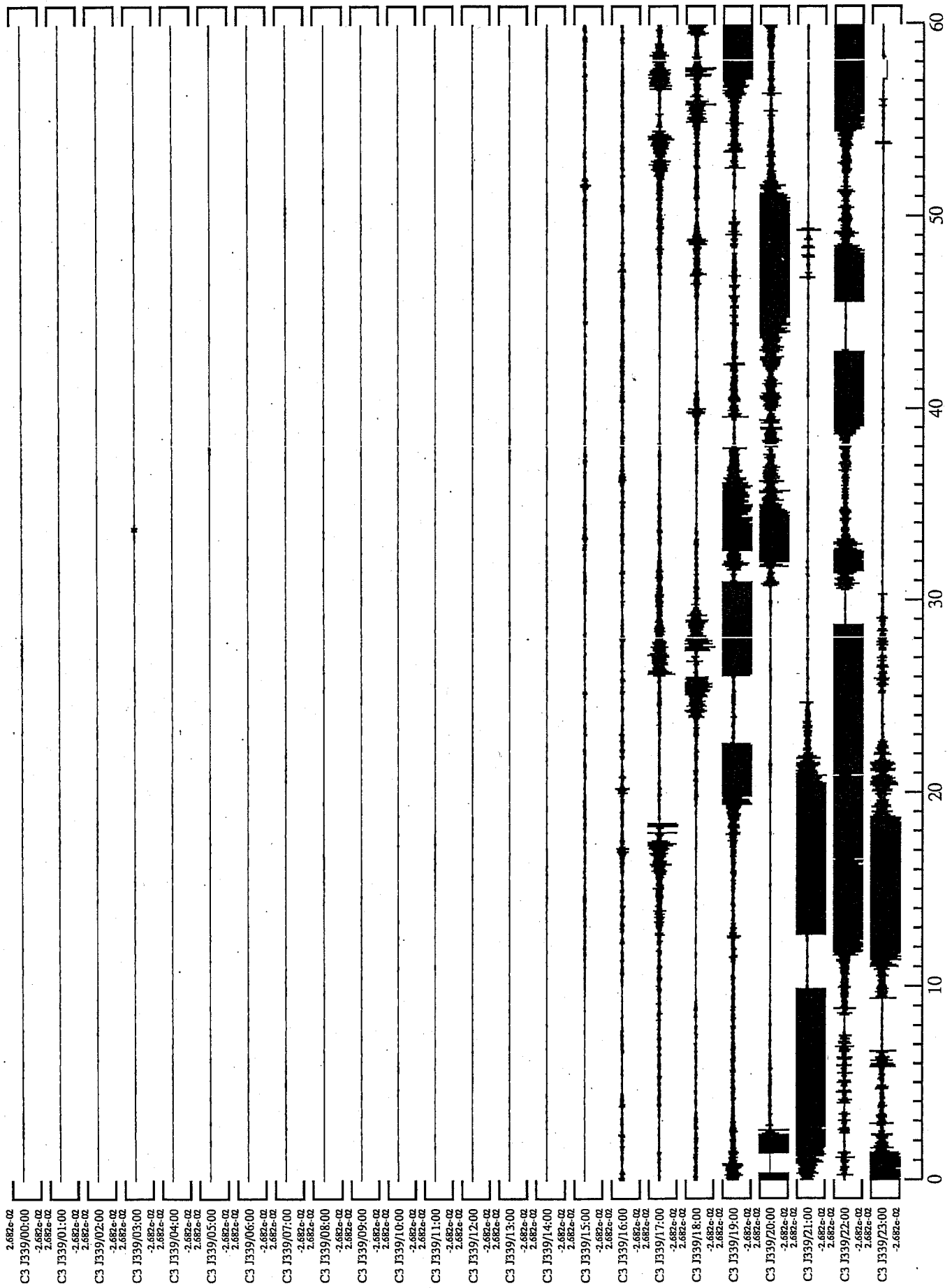
Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 6 / Start Time=1994:338:00:00
Decimation = 1234, DPI = 85, Scaled by manual

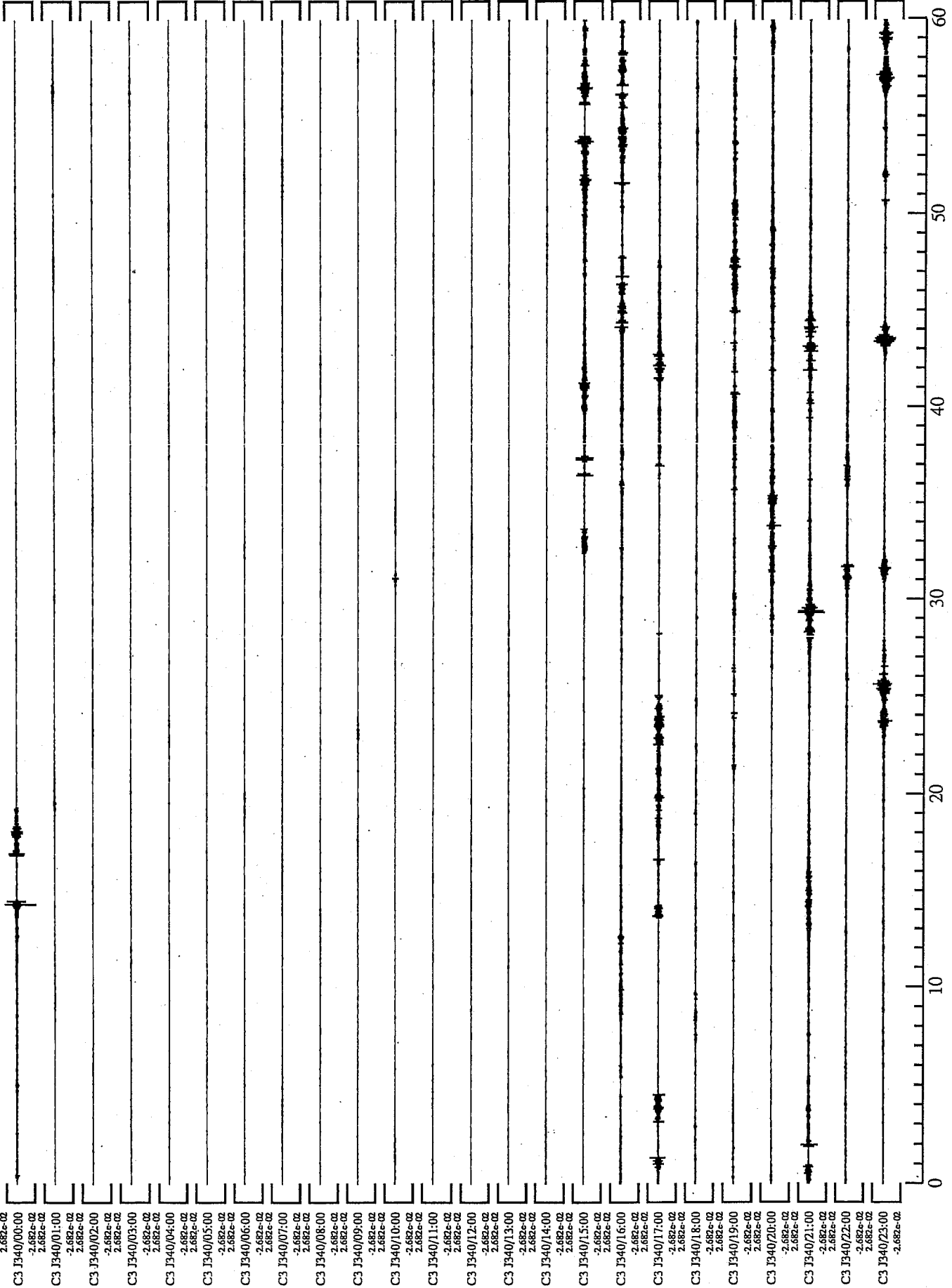


PSQL REFTEK DATA PLOT: DAS 0662 / Page 4 of 6 / Start Time=1994:339:00:00
Decimation = 1234, DPI = 85, Scaled by manual



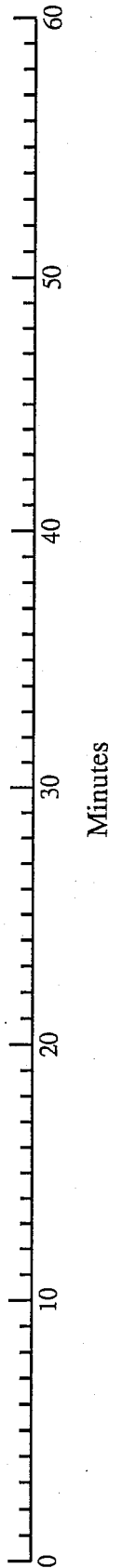
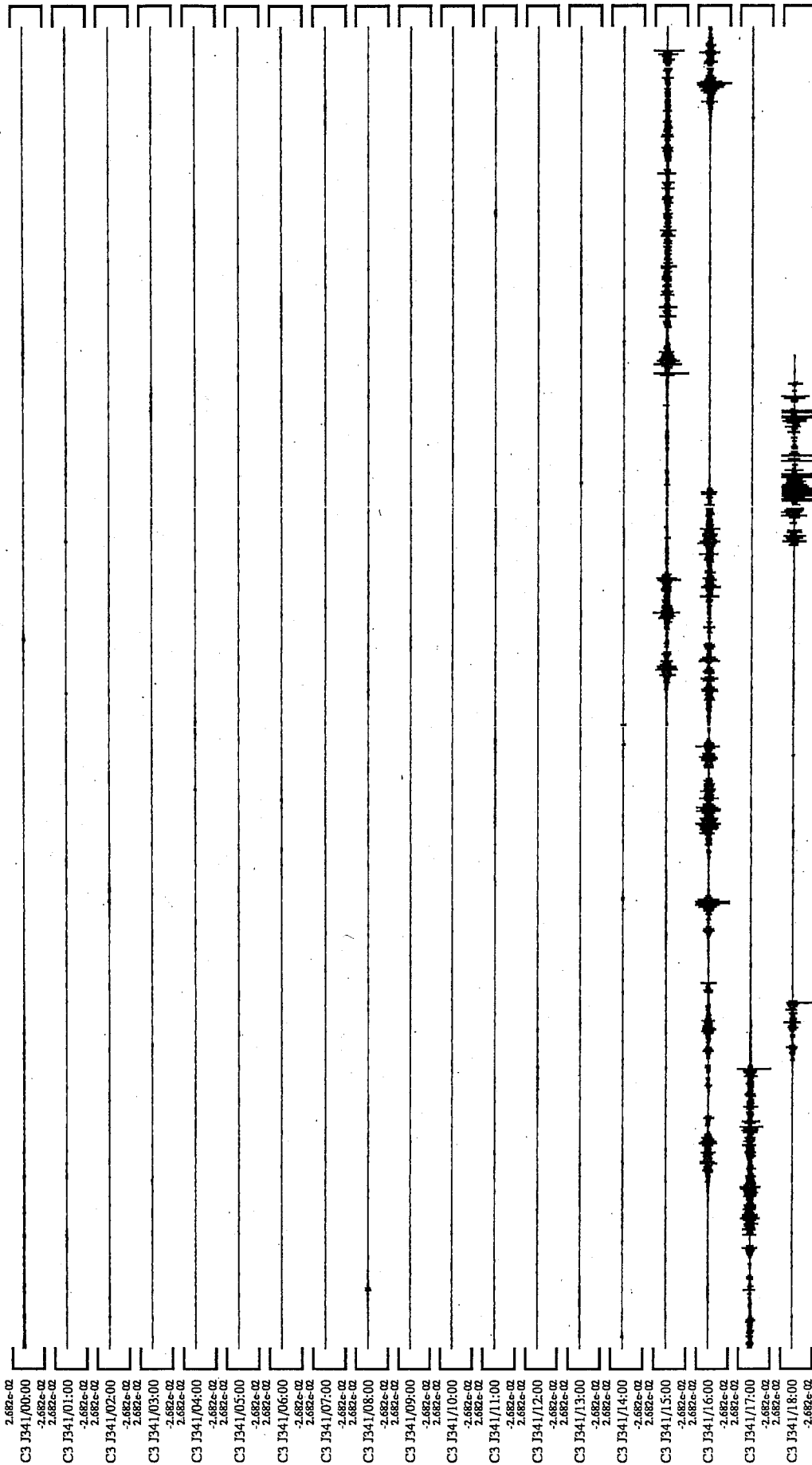
Minutes

Decimation = 1234, DPI = 85, Scaled by manual



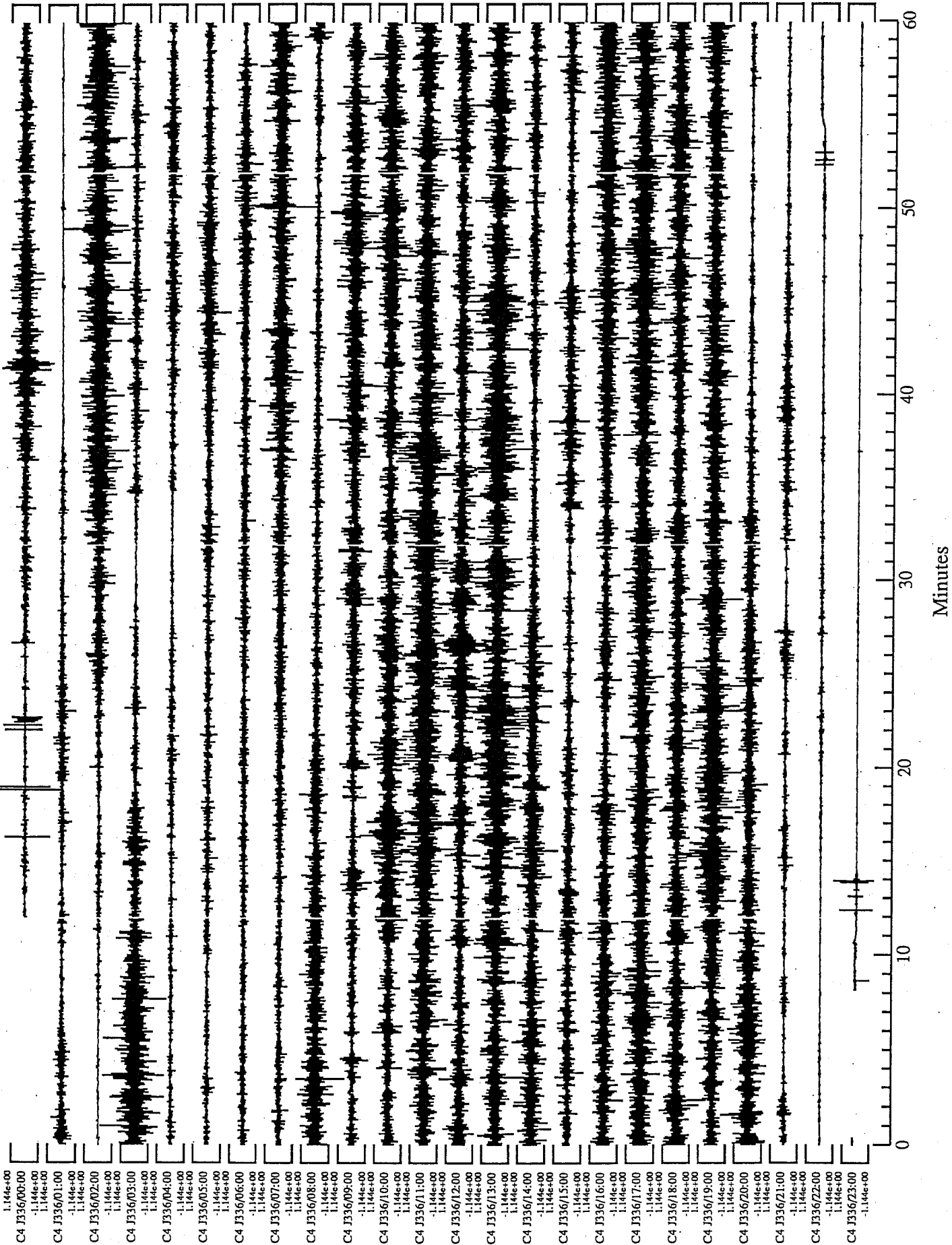
PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 6 / Start Time=1994:341:00:00

Decimation = 1234, DPI = 85, Scaled by manual



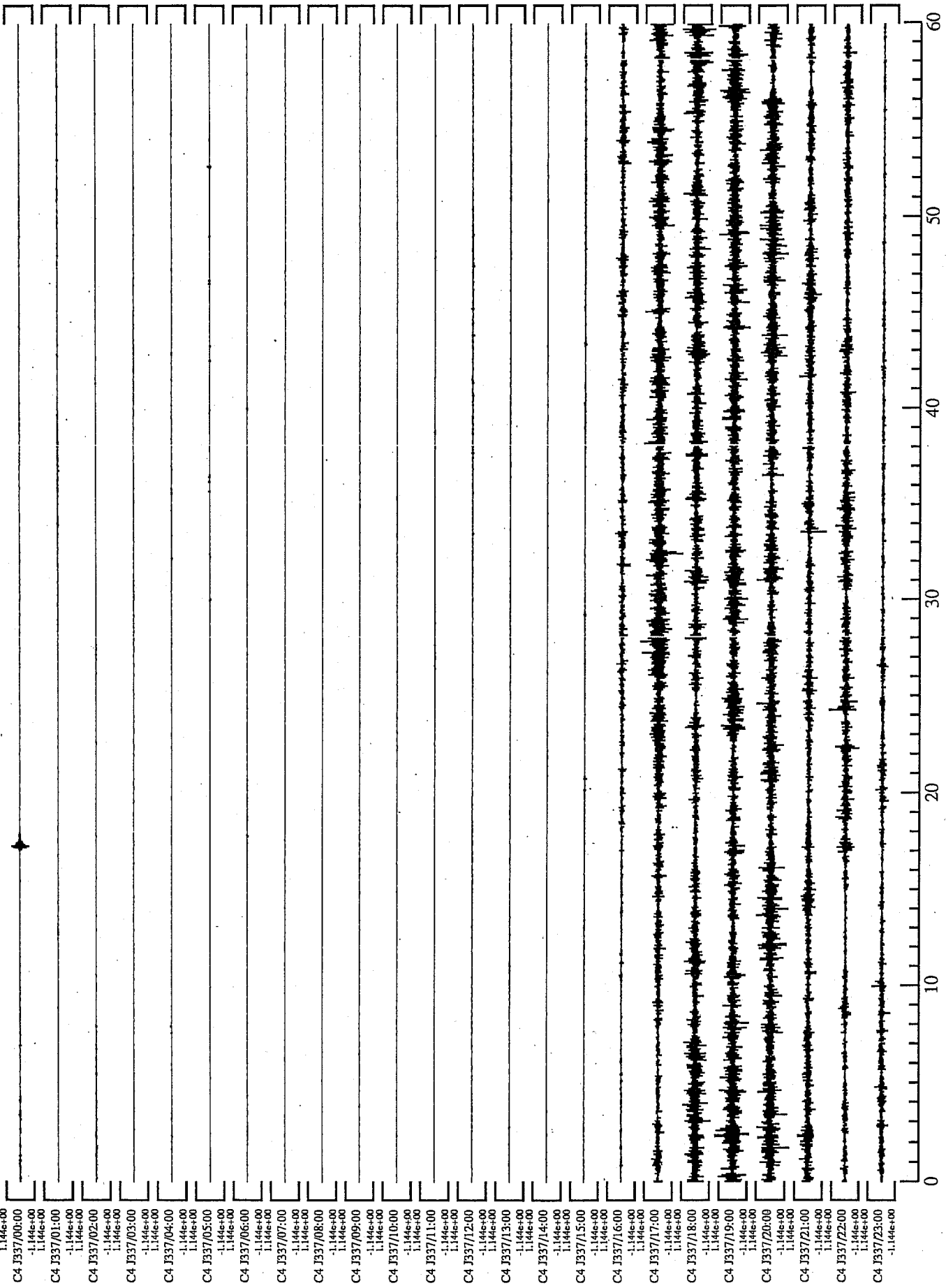
PSQL REFTEK DATA PLOT: DAS 0662 / Page 1 of 6 / Start Time=1994:336:00:00

Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 6 / Start Time=1994:337:00:00

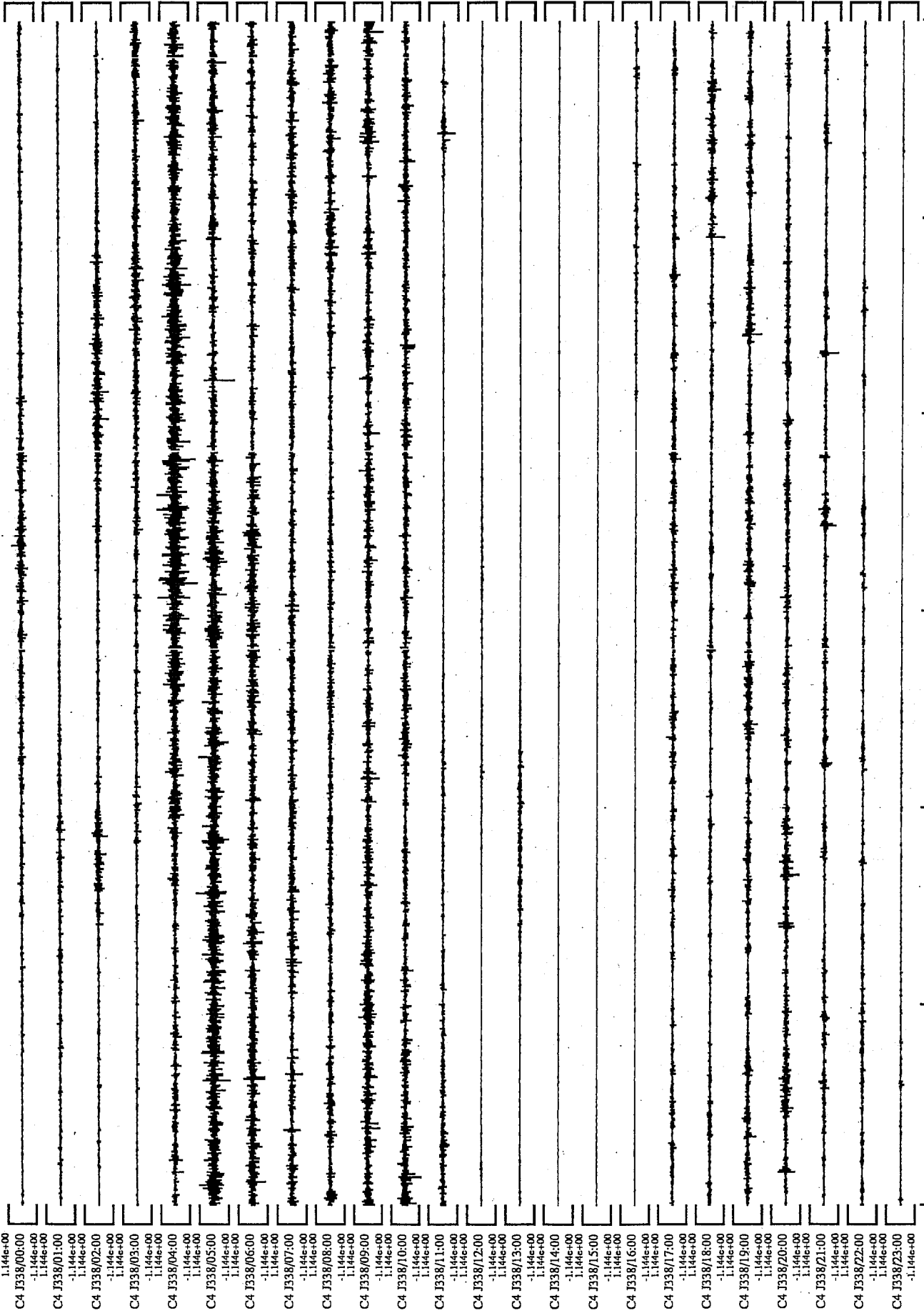
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 6 / Start Time=1994:338:00:00

Decimation = 1234, DPI = 85, Scaled by manual

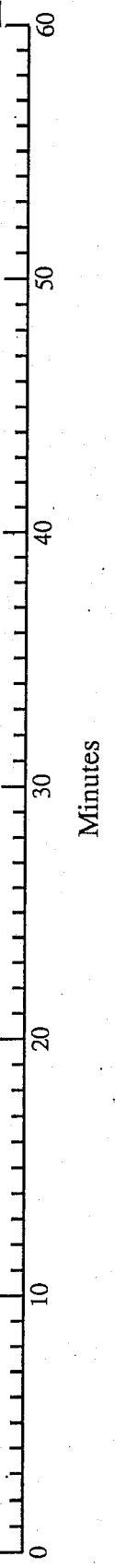
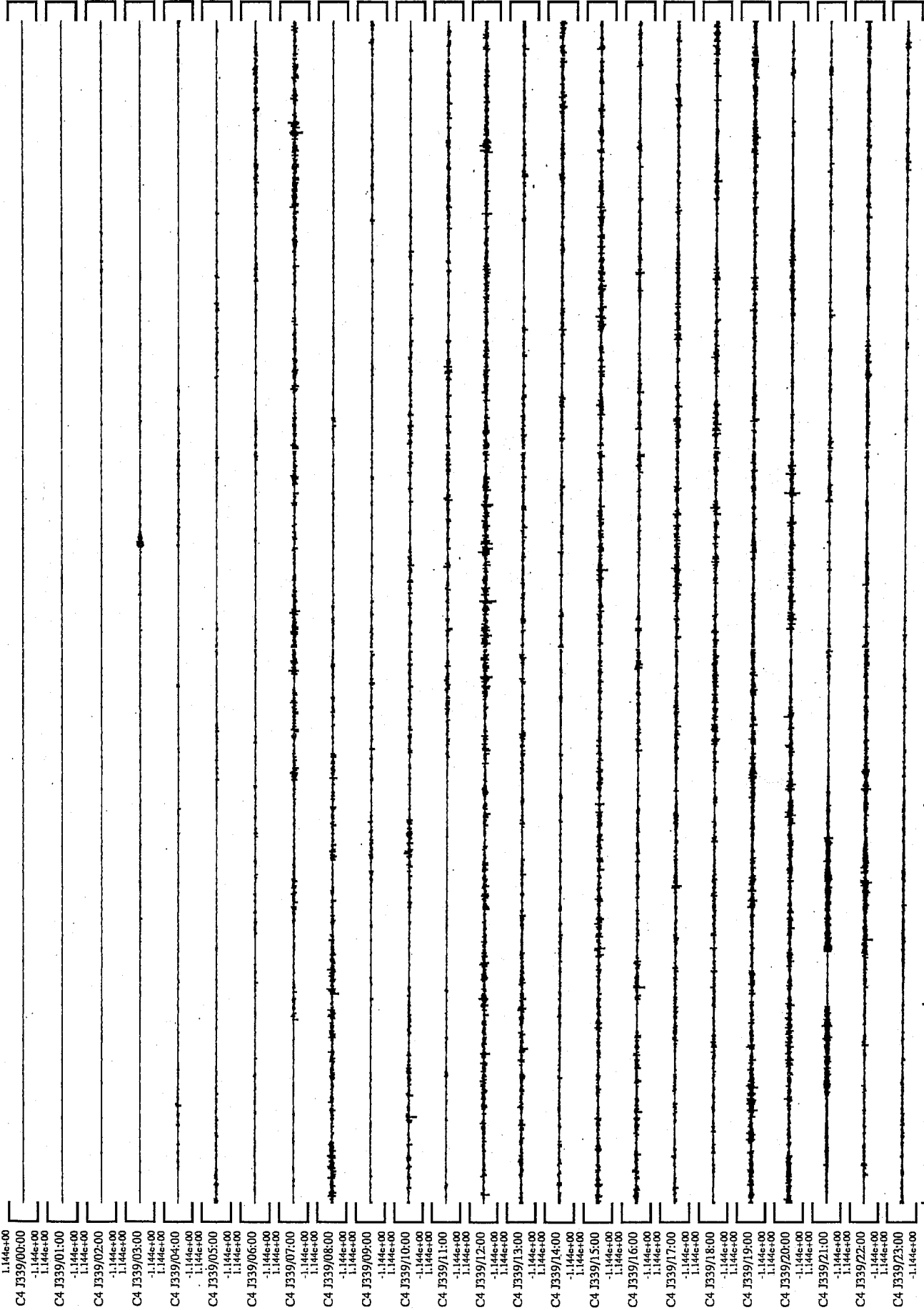


0 10 20 30 40 50 60

Minutes

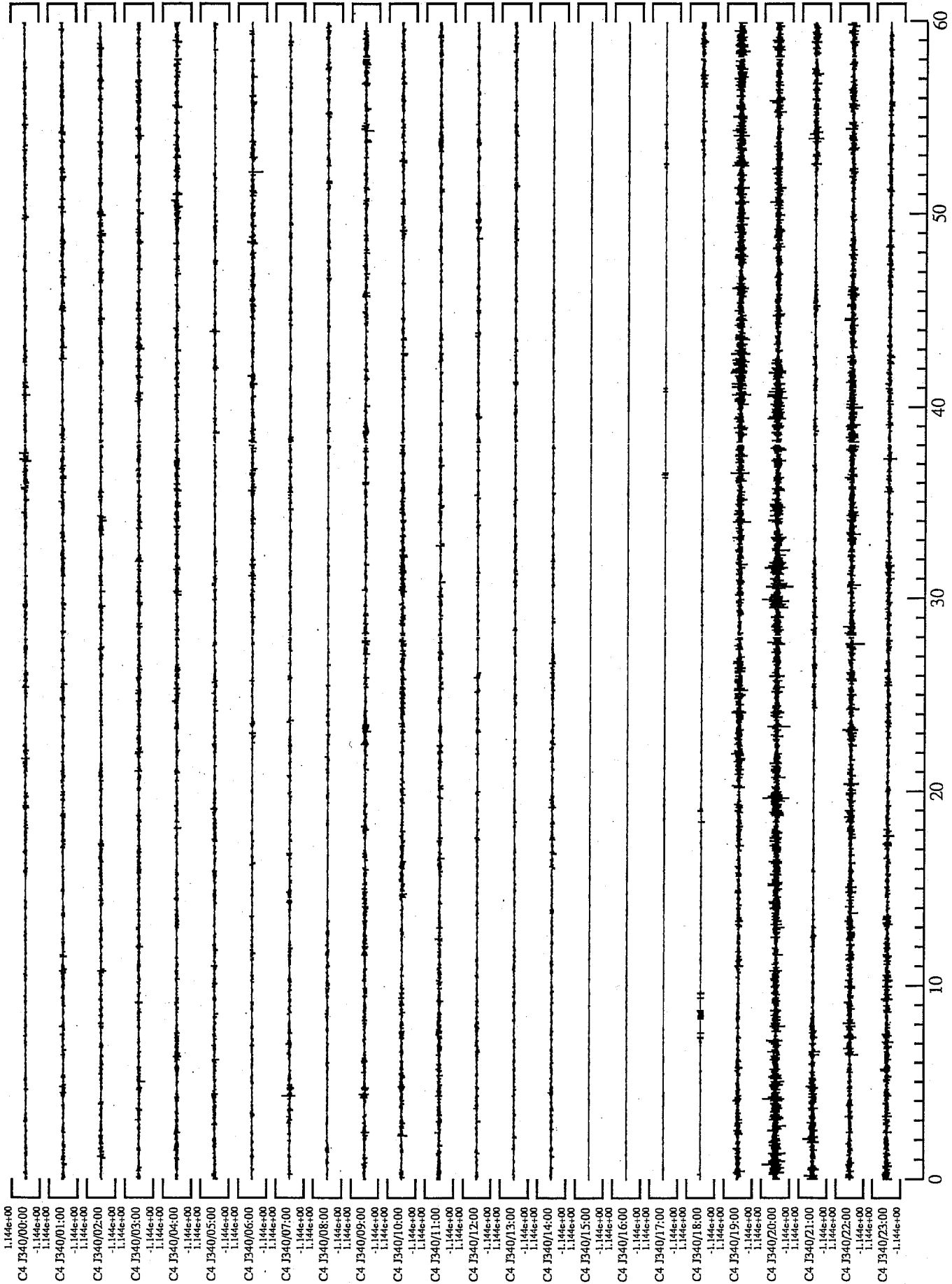
PSQL REFTEK DATA PLOT: DAS 0662 / Page 4 of 6 / Start Time=1994:339:00:00

Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 6 / Start Time=1994:340:00:00

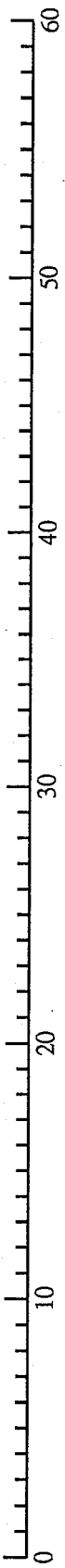
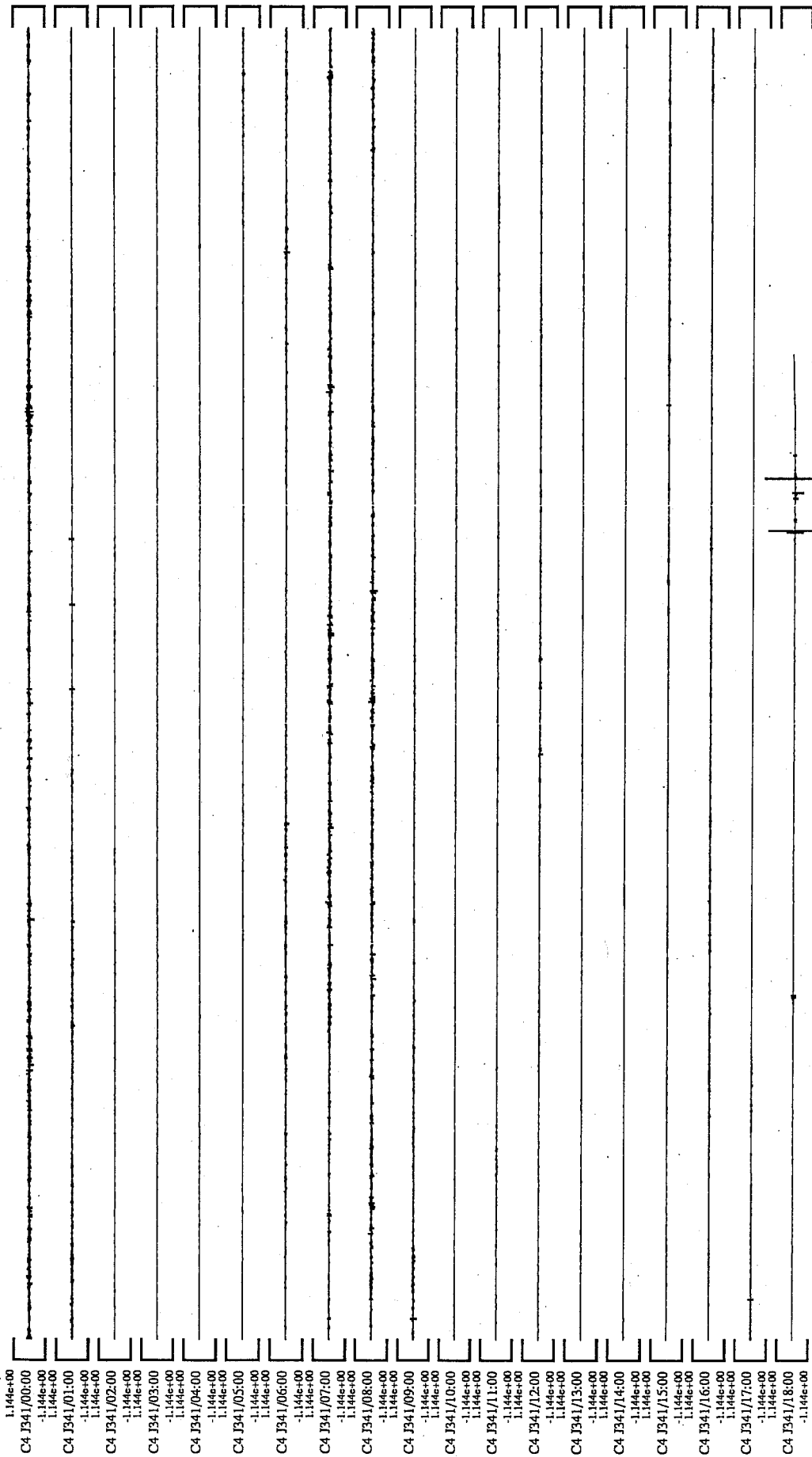
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 6 / Start Time=1994:341:00:00

Decimation = 1234, DPI = 85, Scaled by manual



Minutes

Time Series Plots

LIGO Corner

Day 341 Channel 1 - Vertical (short segment)

Day 342 Channel 1 - Vertical

Day 343 Channel 1 - Vertical

Day 344 Channel 1 - Vertical

Day 345 Channel 1 - Vertical

Day 346 Channel 1 - Vertical

Day 347 Channel 1 - Vertical

Day 348 Channel 1 - Vertical

Day 341 Channel 2 - Northwest Horizontal (short segment)

Day 342 Channel 2 - Northwest Horizontal

Day 343 Channel 2 - Northwest Horizontal

Day 344 Channel 2 - Northwest Horizontal

Day 345 Channel 2 - Northwest Horizontal

Day 346 Channel 2 - Northwest Horizontal

Day 347 Channel 2 - Northwest Horizontal

Day 348 Channel 2 - Northwest Horizontal

Day 341 Channel 3 - Southwest Horizontal (short segment)

Day 342 Channel 3 - Southwest Horizontal

Day 343 Channel 3 - Southwest Horizontal

Day 344 Channel 3 - Southwest Horizontal

Day 345 Channel 3 - Southwest Horizontal

Day 346 Channel 3 - Southwest Horizontal

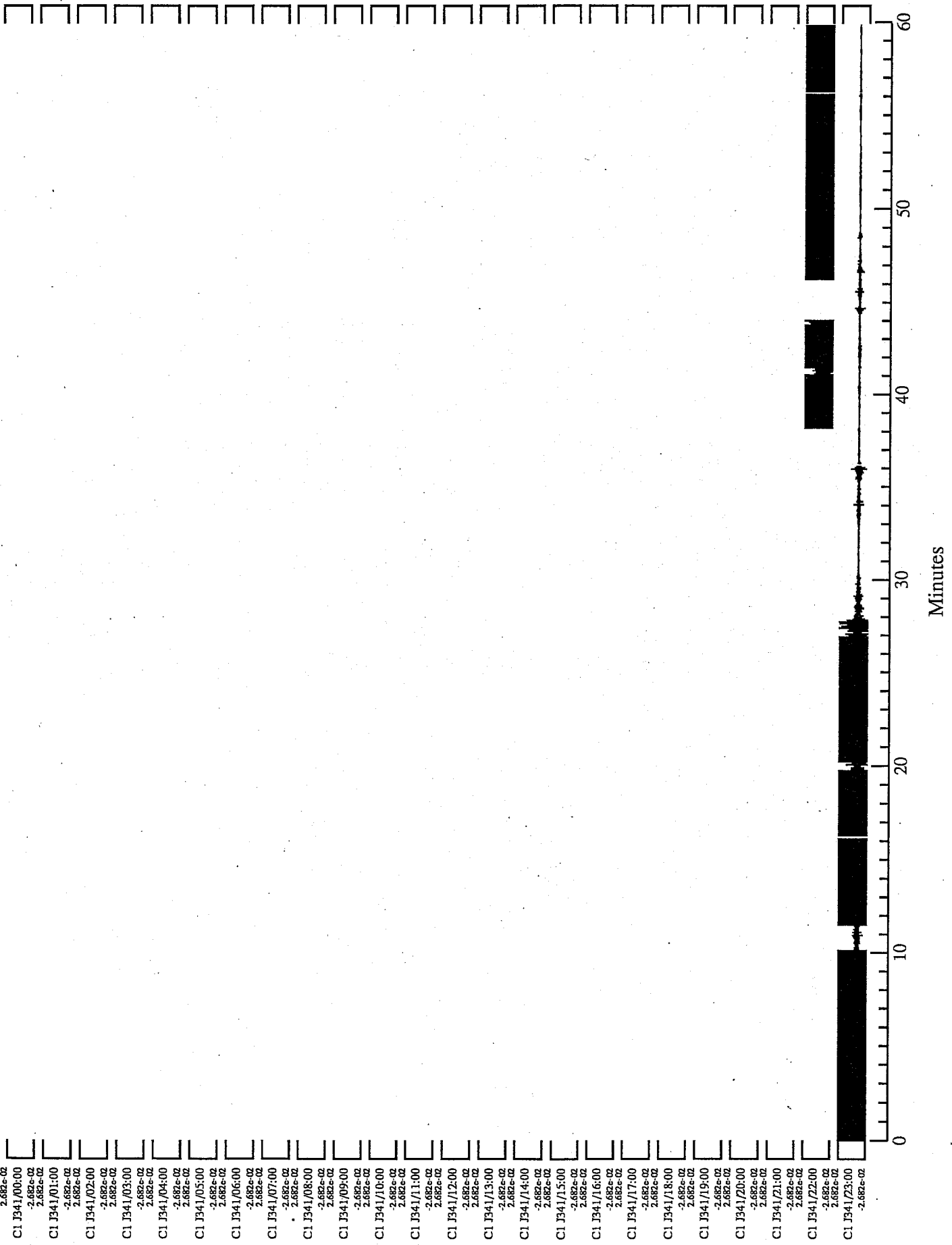
Day 347 Channel 3 - Southwest Horizontal

Day 348 Channel 3 - Southwest Horizontal

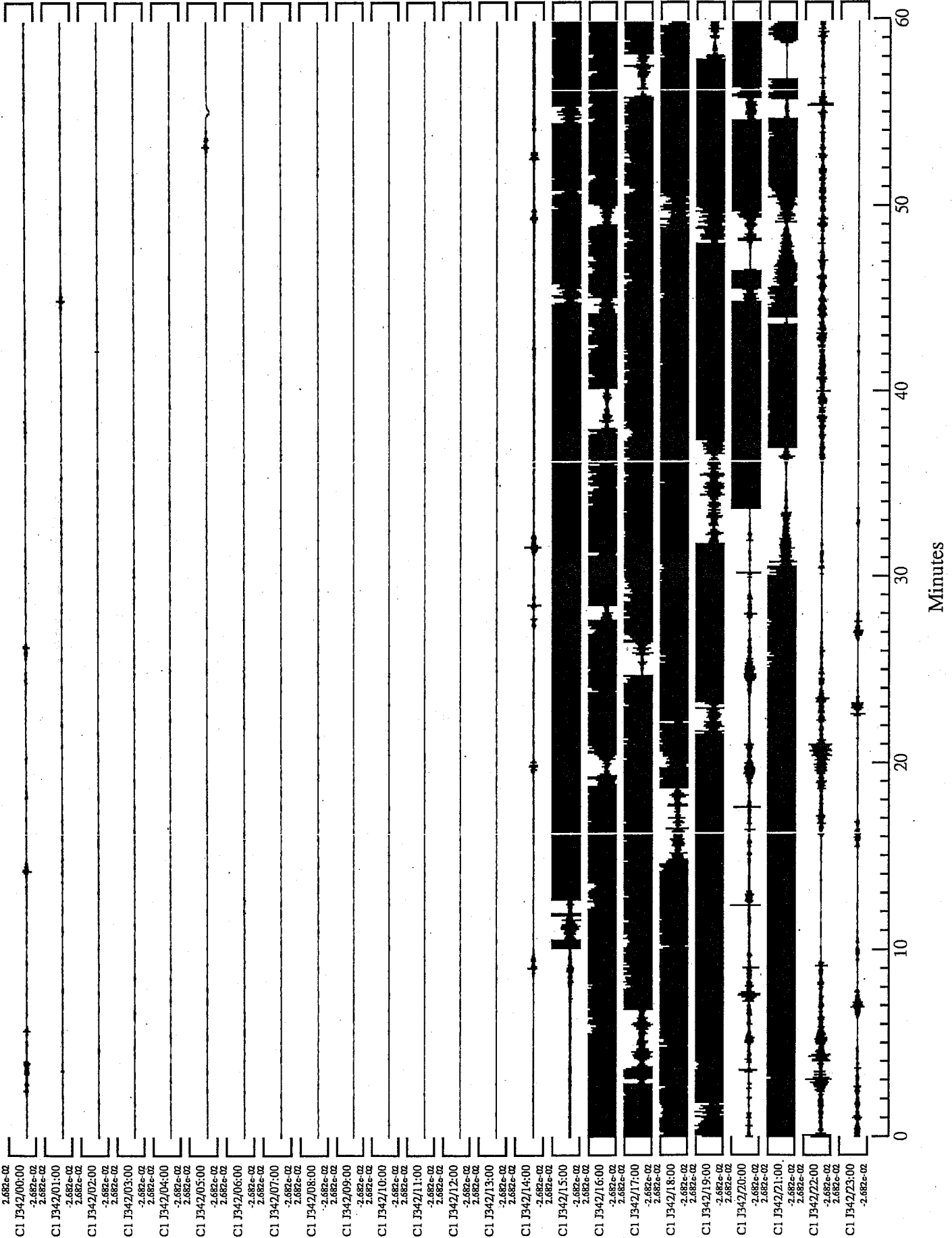
Day 347 Channel 4 - Infrasound Pressure

Day 348 Channel 4 - Infrasound Pressure

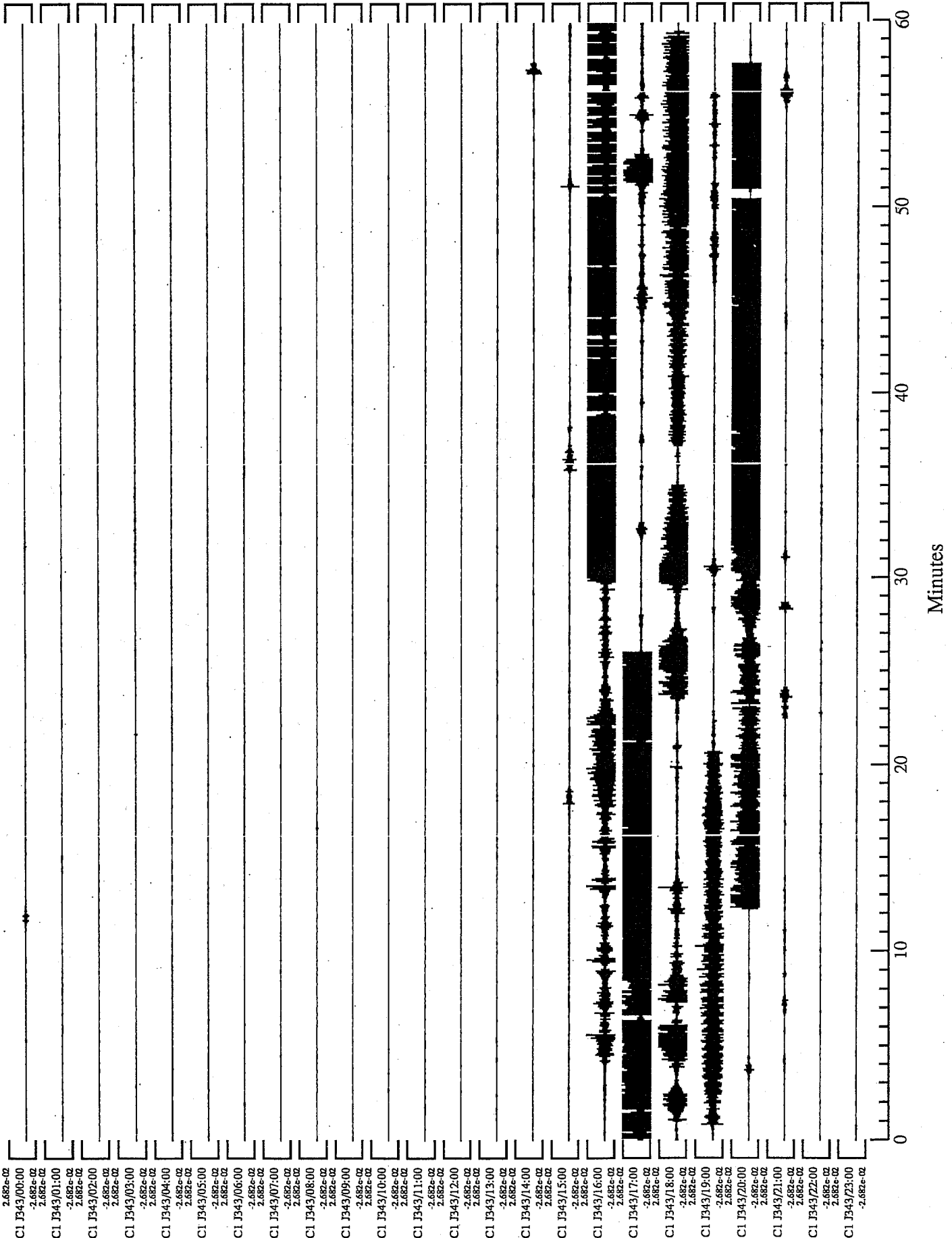
Decimation = 1234, DPI = 85, Scaled by manual



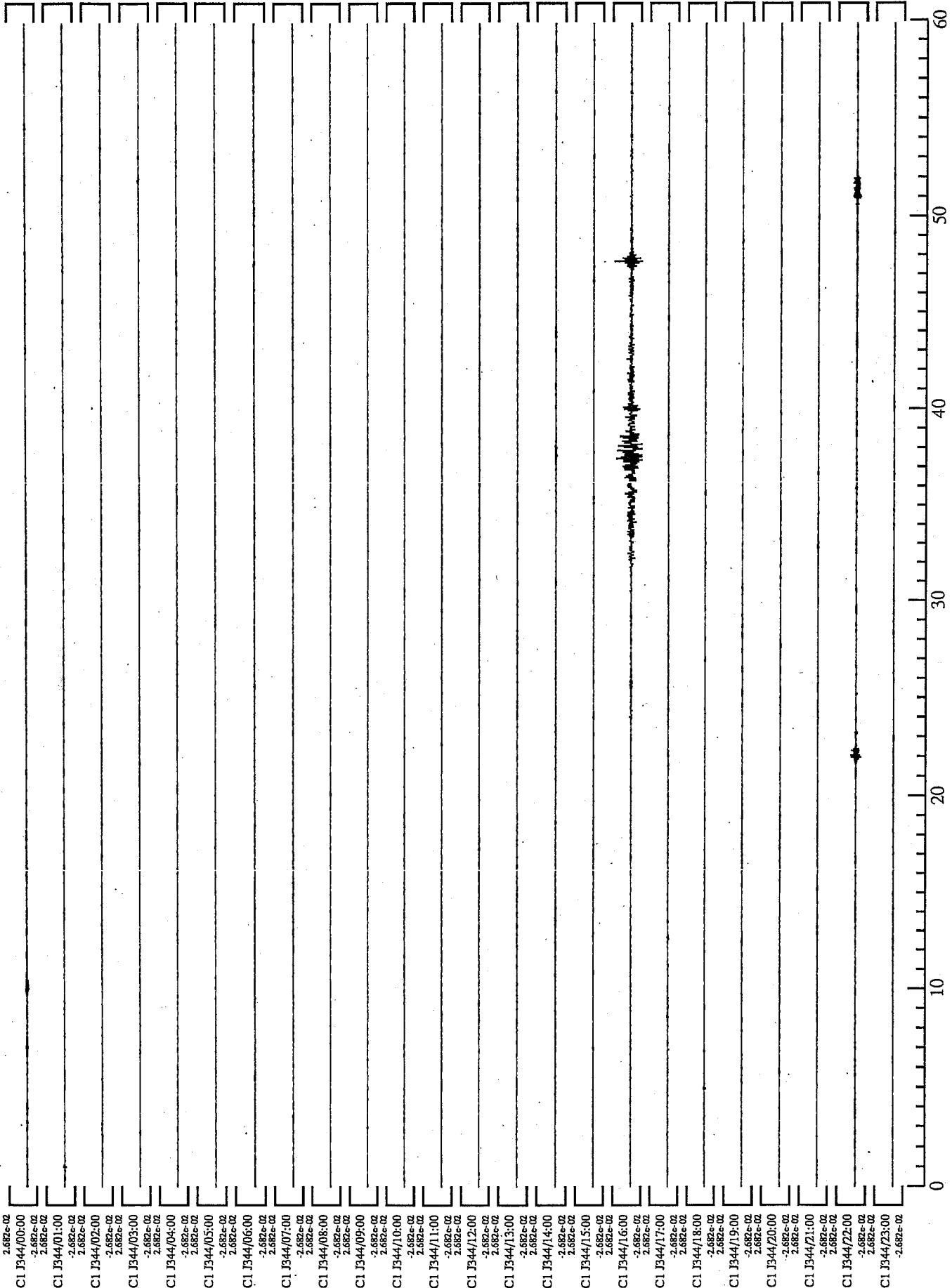
PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 8 / Start Time=1994:342:00:00
Decimation = 1234, DPI = 85; Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 8 / Start Time=1994:343:00:00
Decimation = 1234, DPI = 85, Scaled by manual

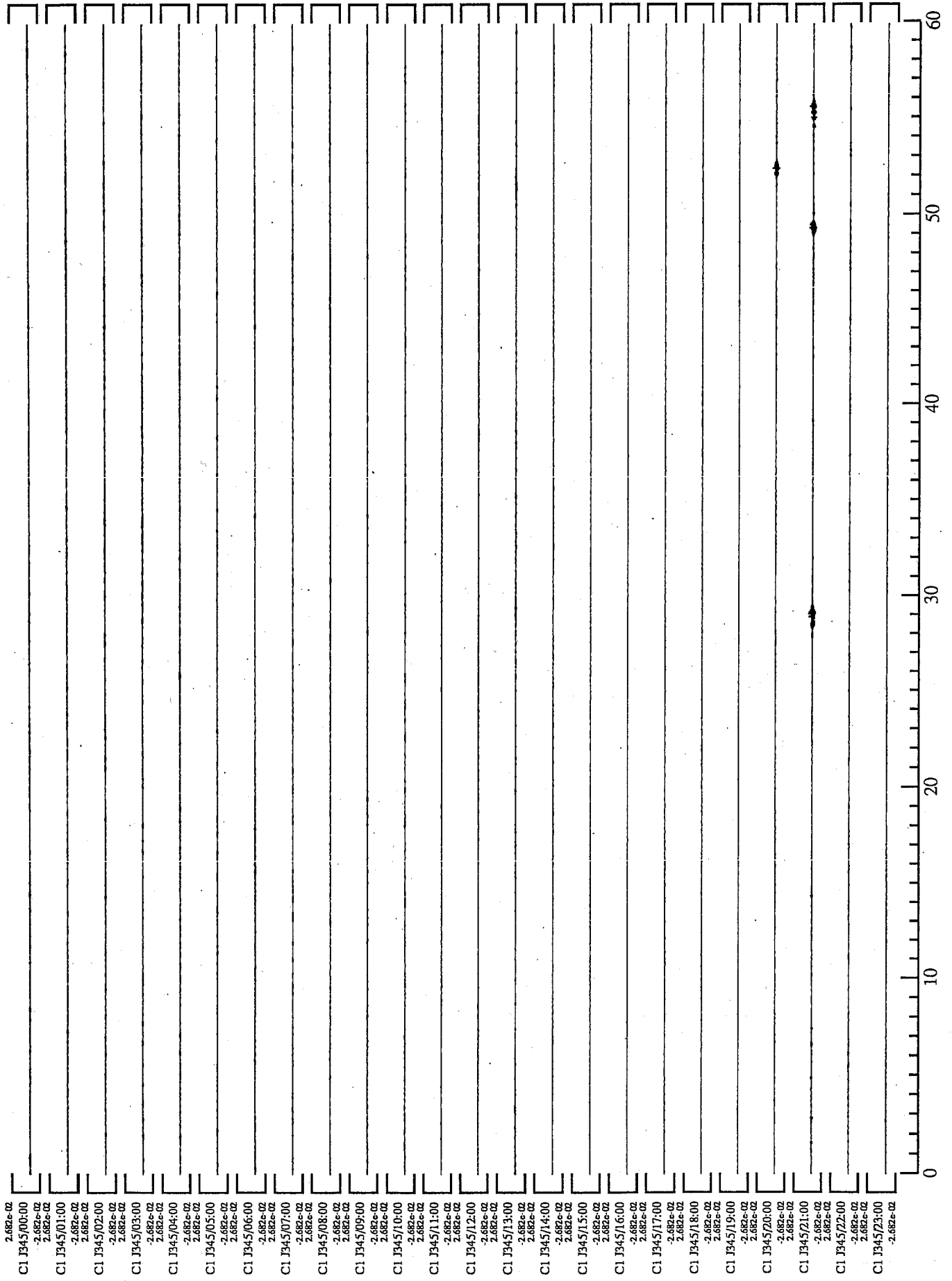


PSQL REFTEK DATA PLOT: DAS 0662 / Page 4 of 8 / Start Time=1994:344:00:00
Decimation = 1234, DPI = 85, Scaled by manual



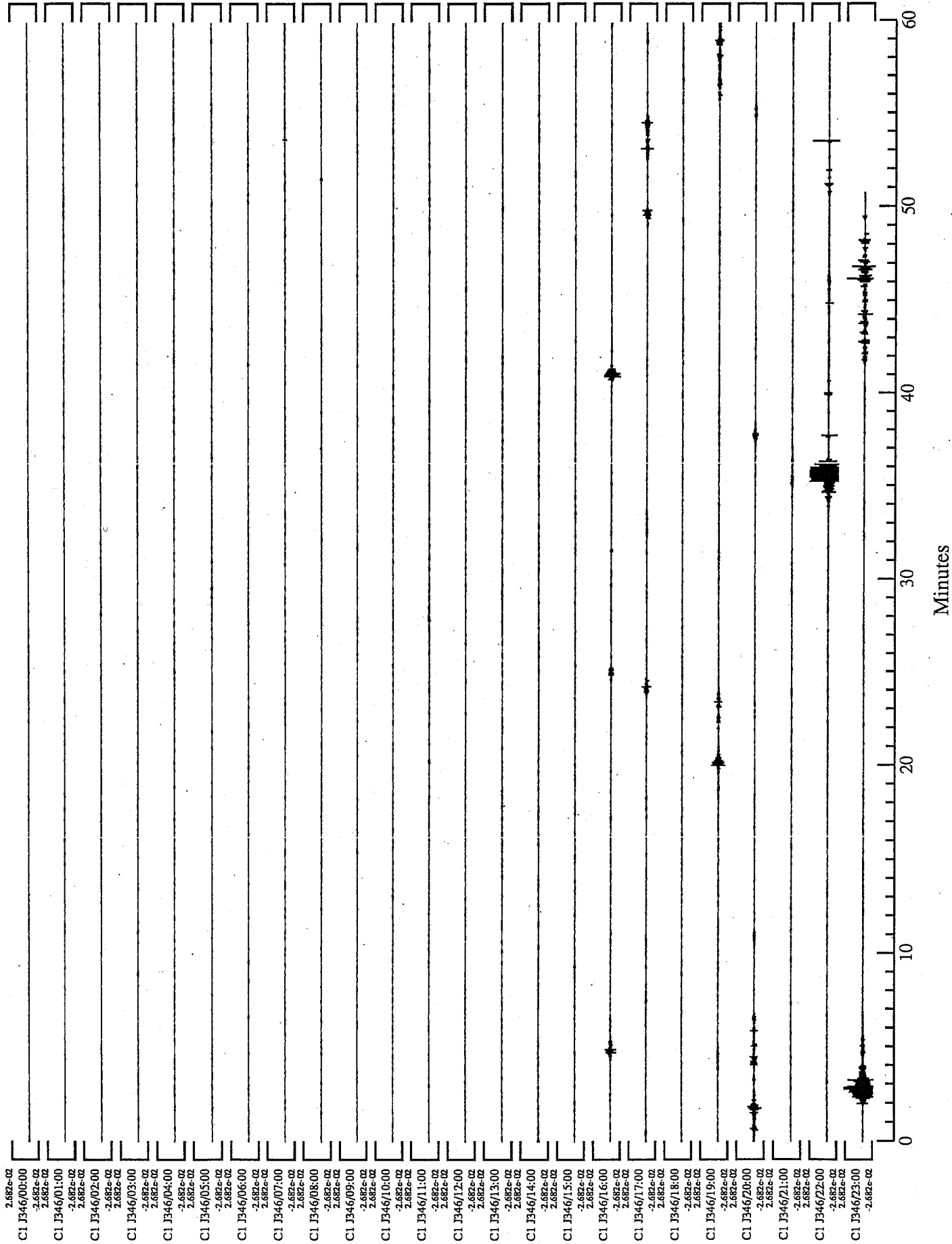
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PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 8 / Start Time=1994:345:00:00
Decimation = 1234, DPI = 85, Scaled by manual

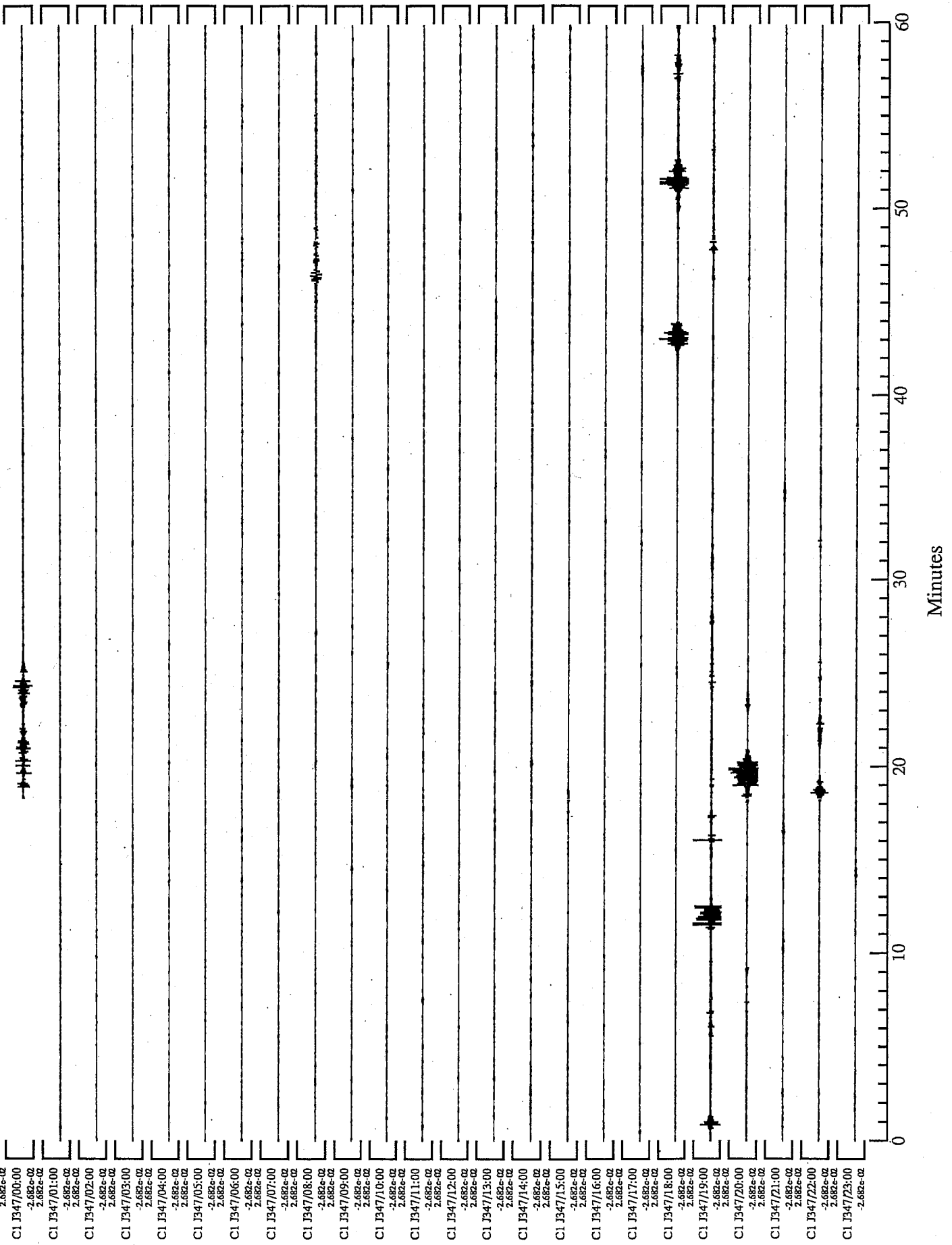


PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 8 / Start Time=1994:346:00:00

Decimation = 1234, DPI = 85, Scaled by manual

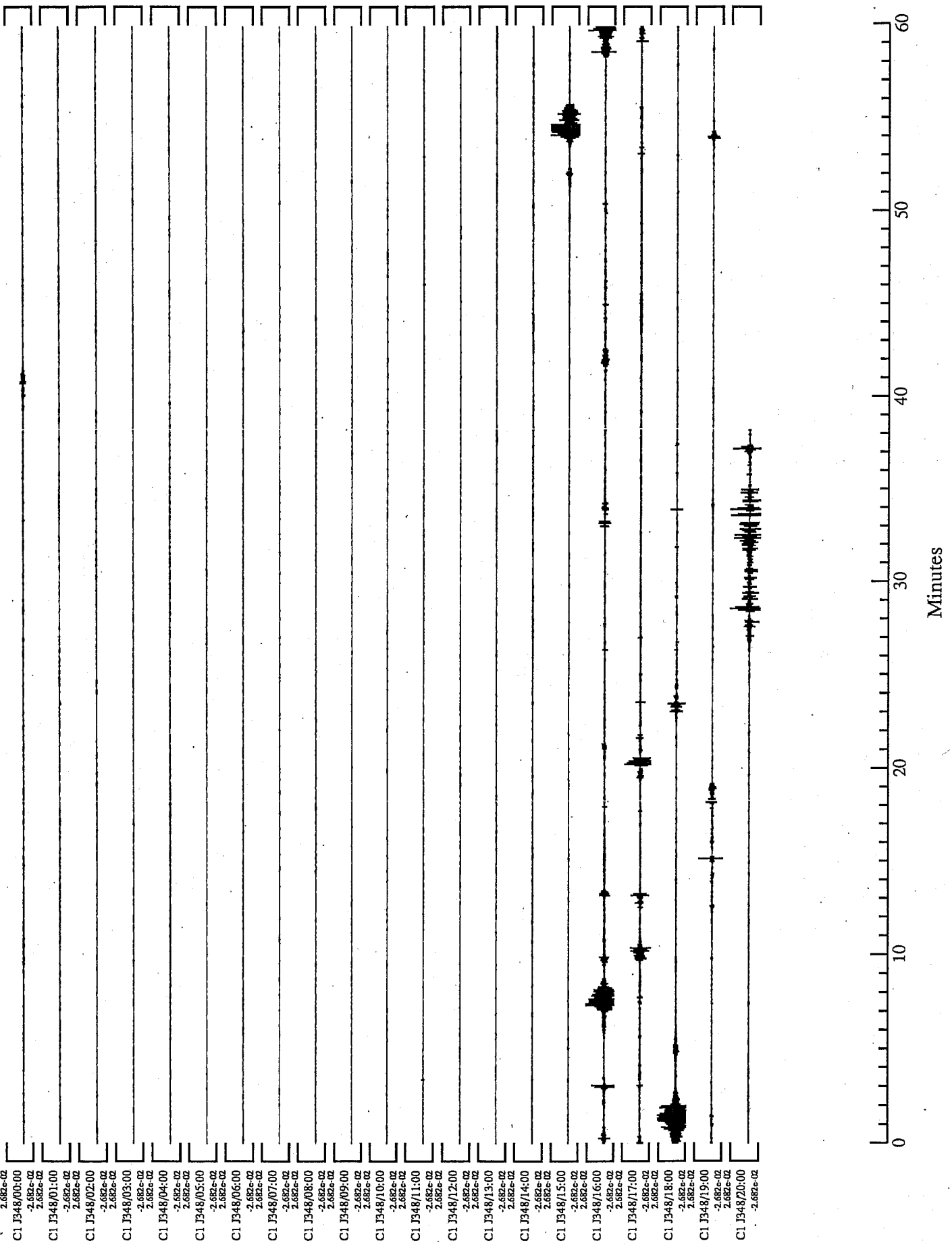


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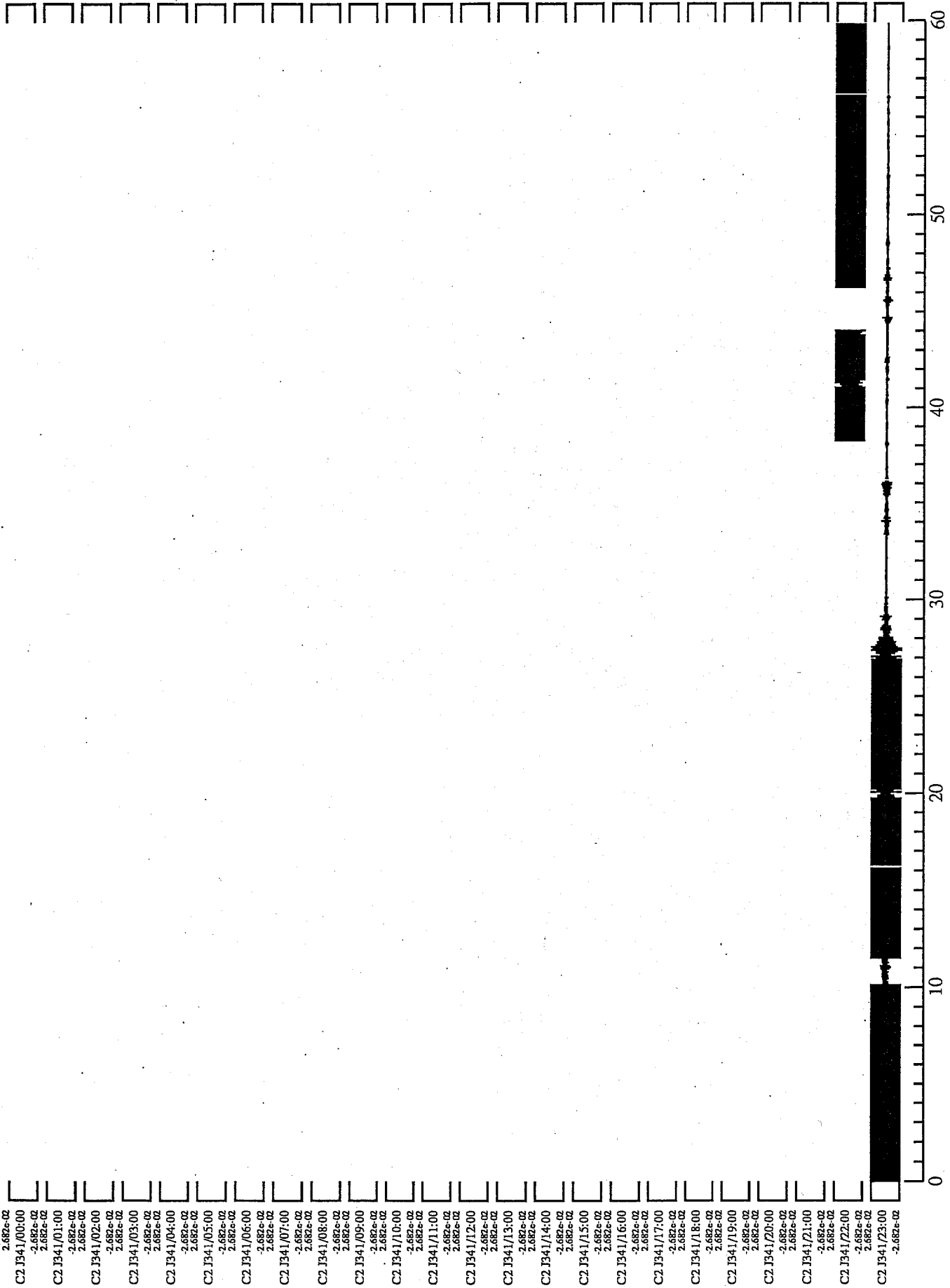
PSQL REFTEK DATA PLOT: DAS 0662 / Page 8 of 8 / Start Time=1994:348:00:00

Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 1 of 8 / Start Time=1994:341:00:00

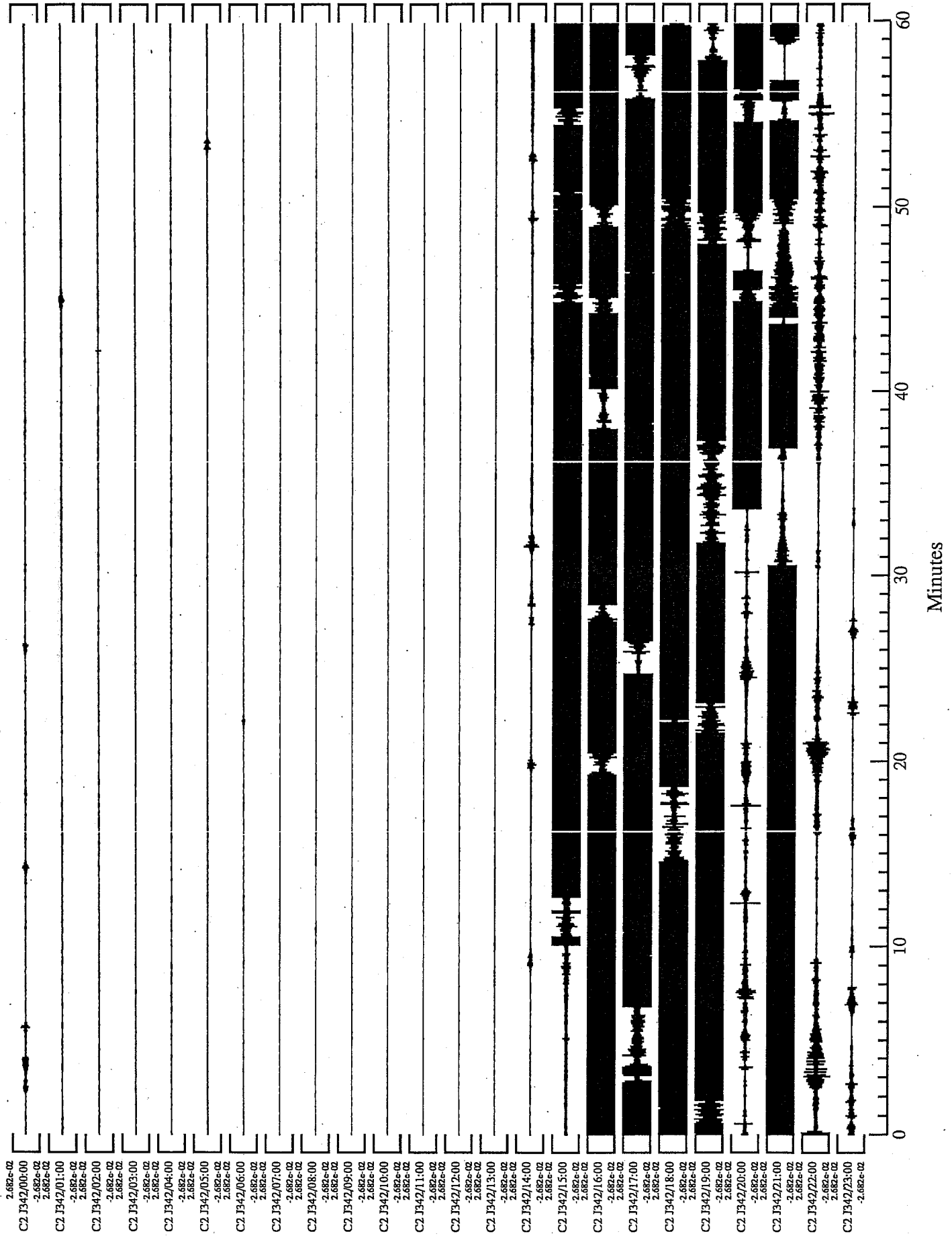
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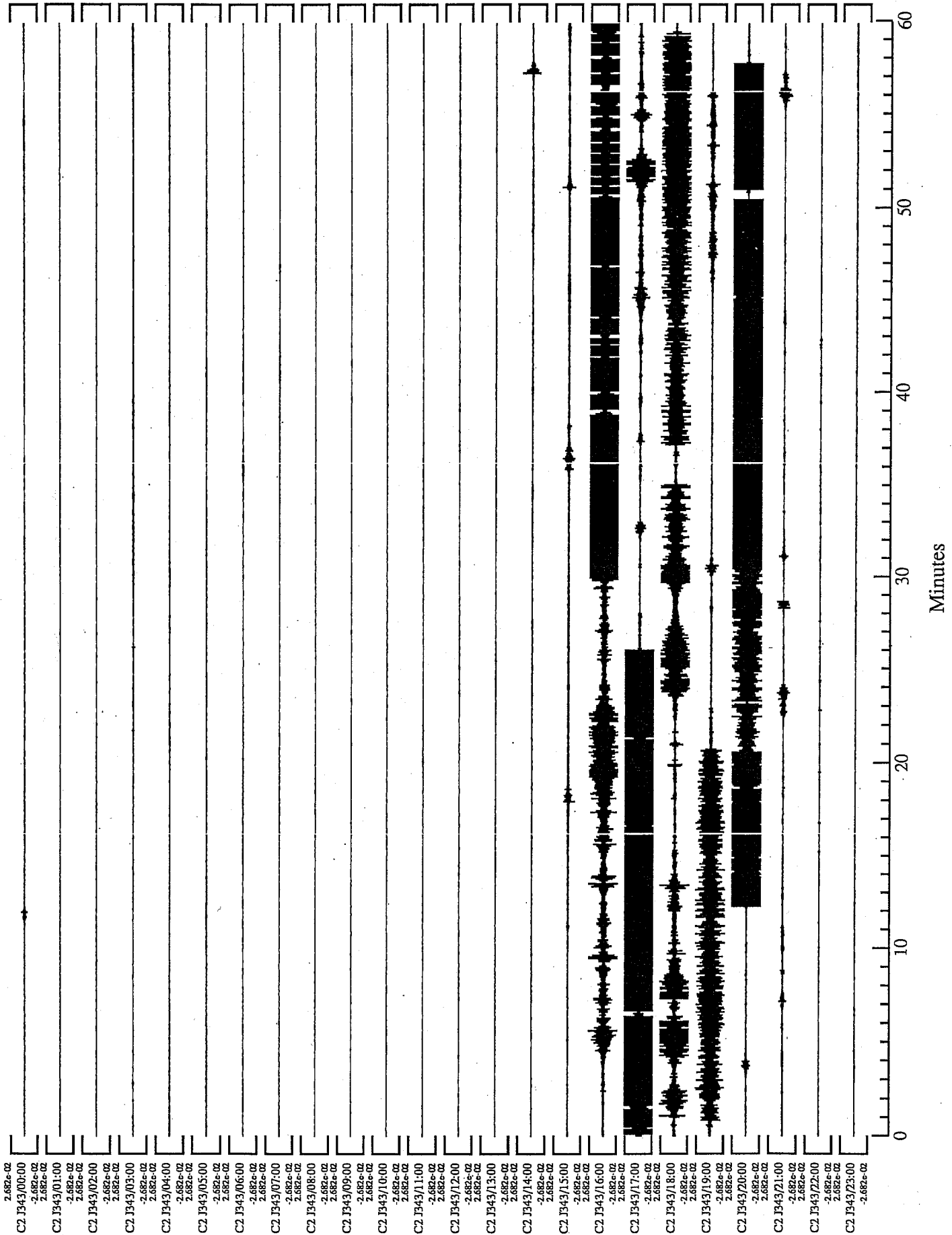
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PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 8 / Start Time=1994:342:00:00

Decimation = 1234, DPI = 85, Scaled by manual

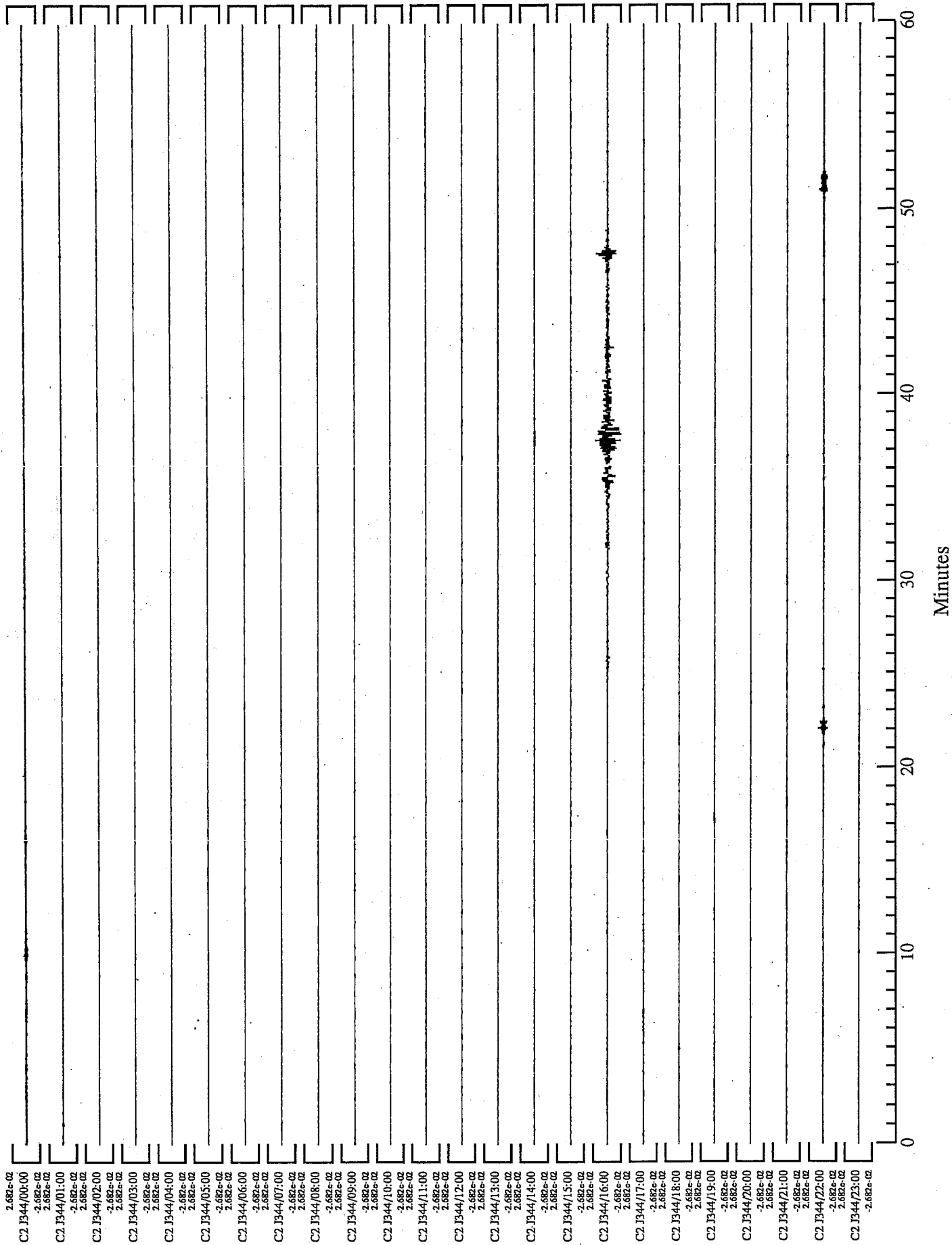


PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 8 / Start Time=1994:343:00:00
Decimation = 1234, DPI = 85, Scaled by manual



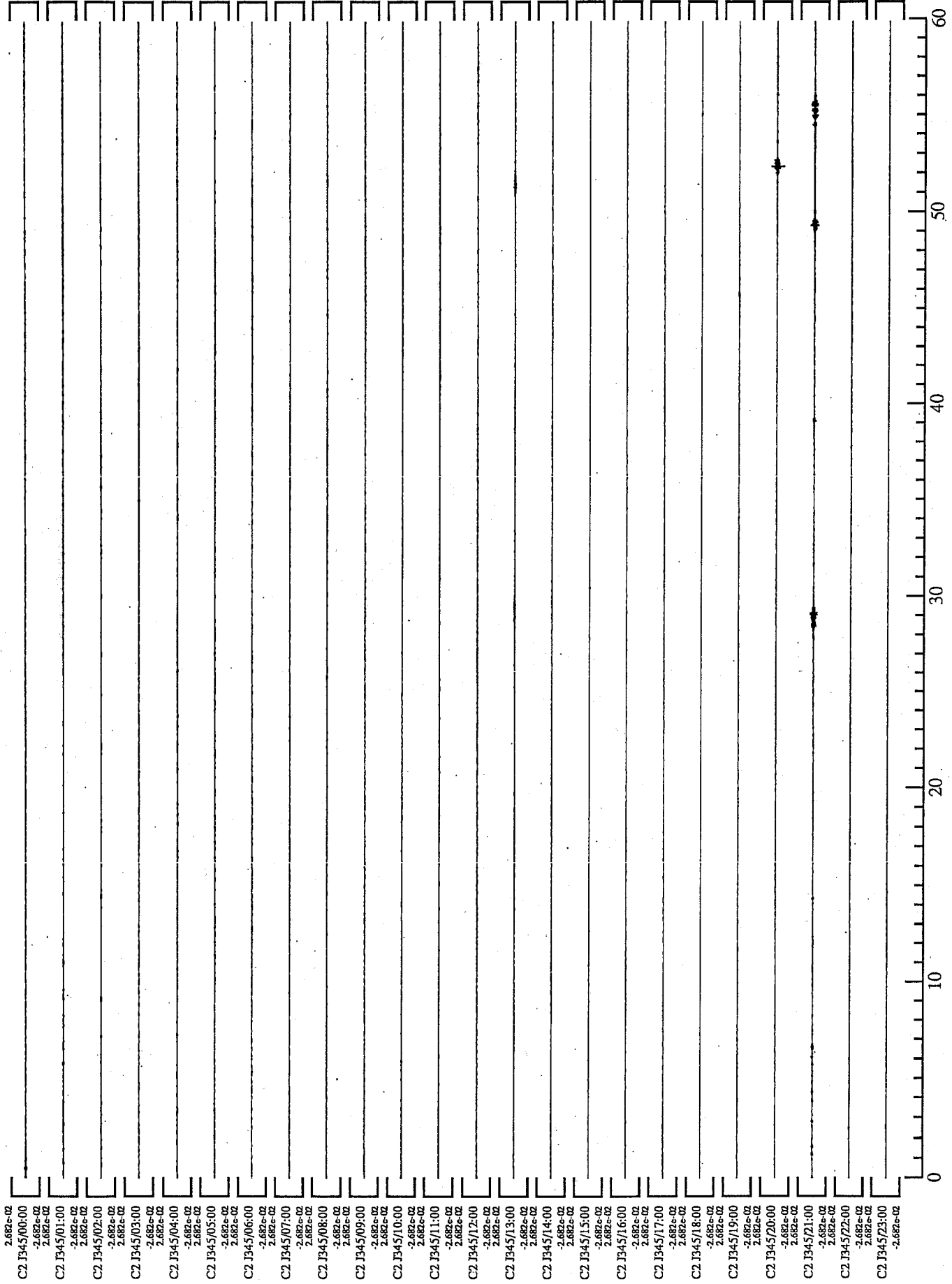
PSQL REFTEK DATA PLOT: DAS 0662 / Page 4 of 8 / Start Time=1994:344:00:00

Decimation = 1234, DPI = 85, Scaled by manual



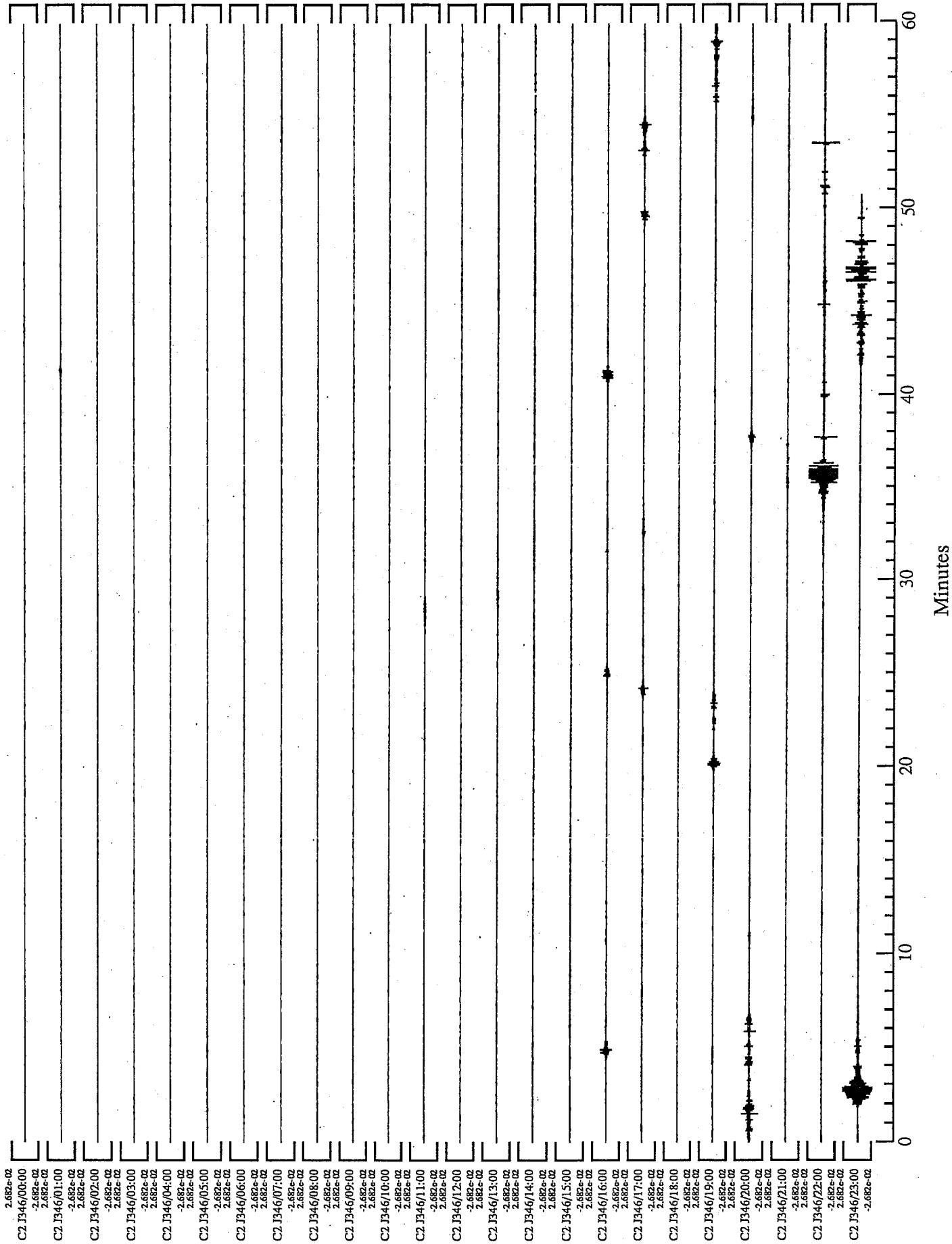
PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 8 / Start Time=1994:345:00:00

Decimation = 1234, DPI = 85, Scaled by manual



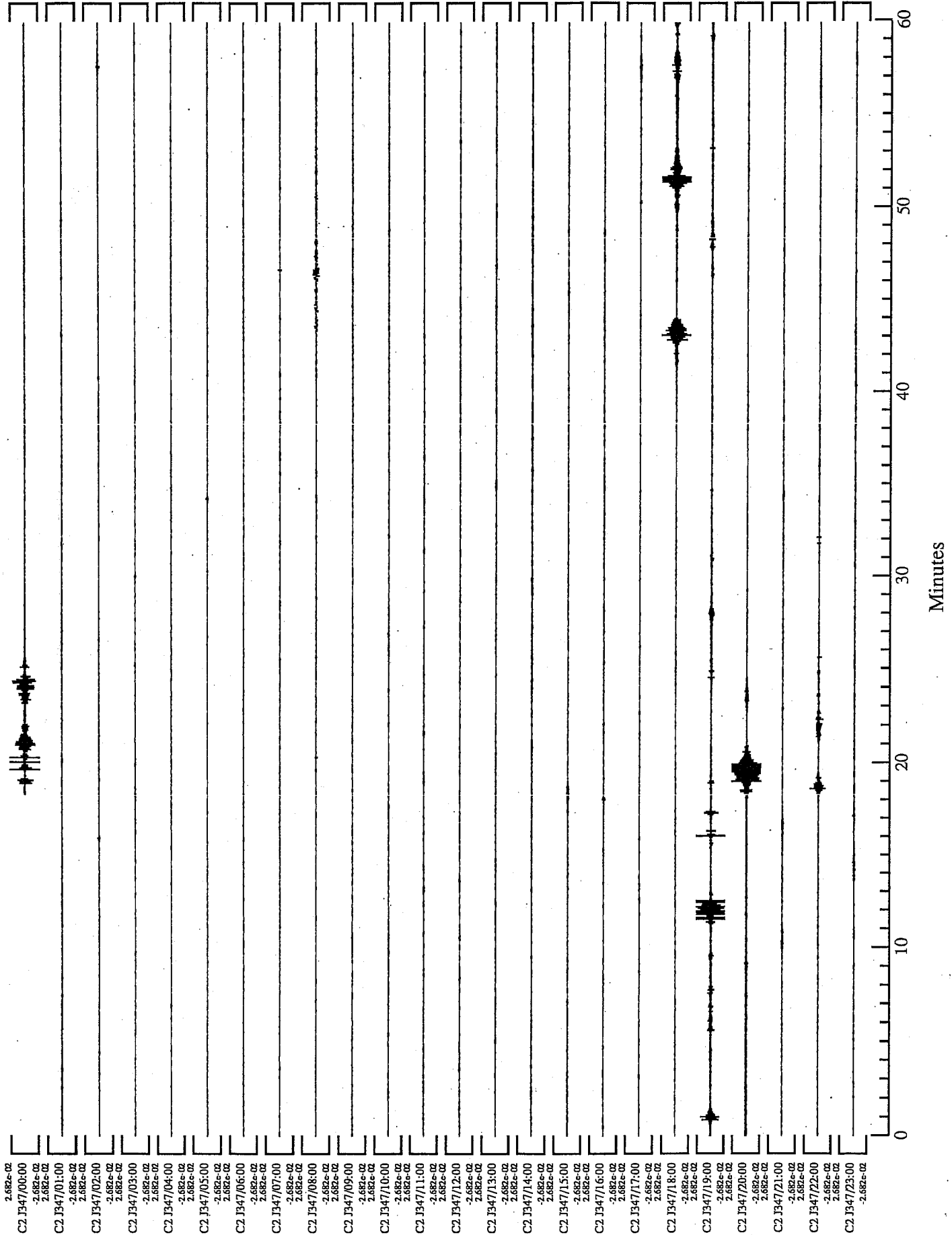
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Decimation = 1234, DPI = 85, Scaled by manual

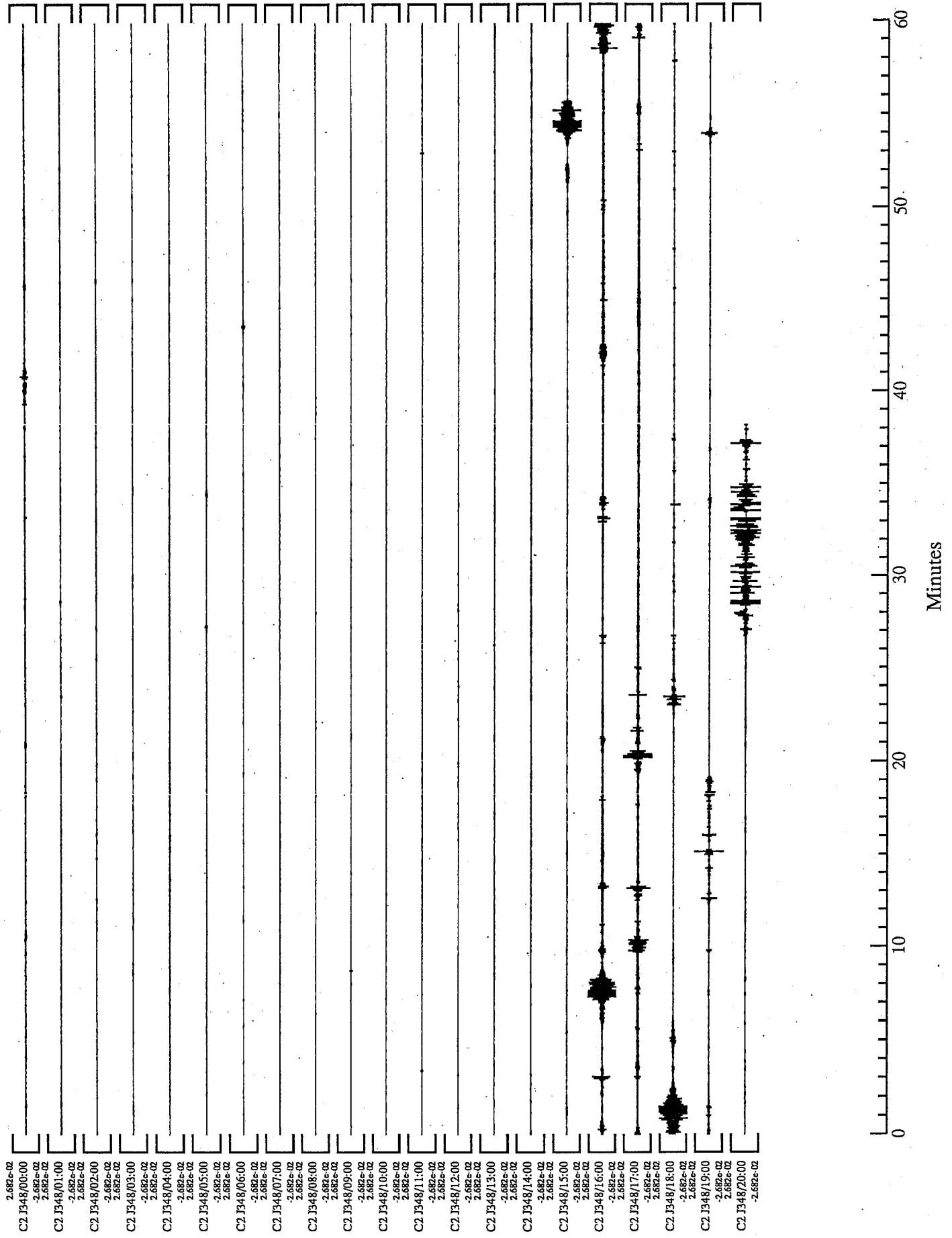


PSQL REFTEK DATA PLOT: DAS 0662 / Page 7 of 8 / Start Time=1994:347:00:00

Decimation = 1234, DPI = 85, Scaled by manual

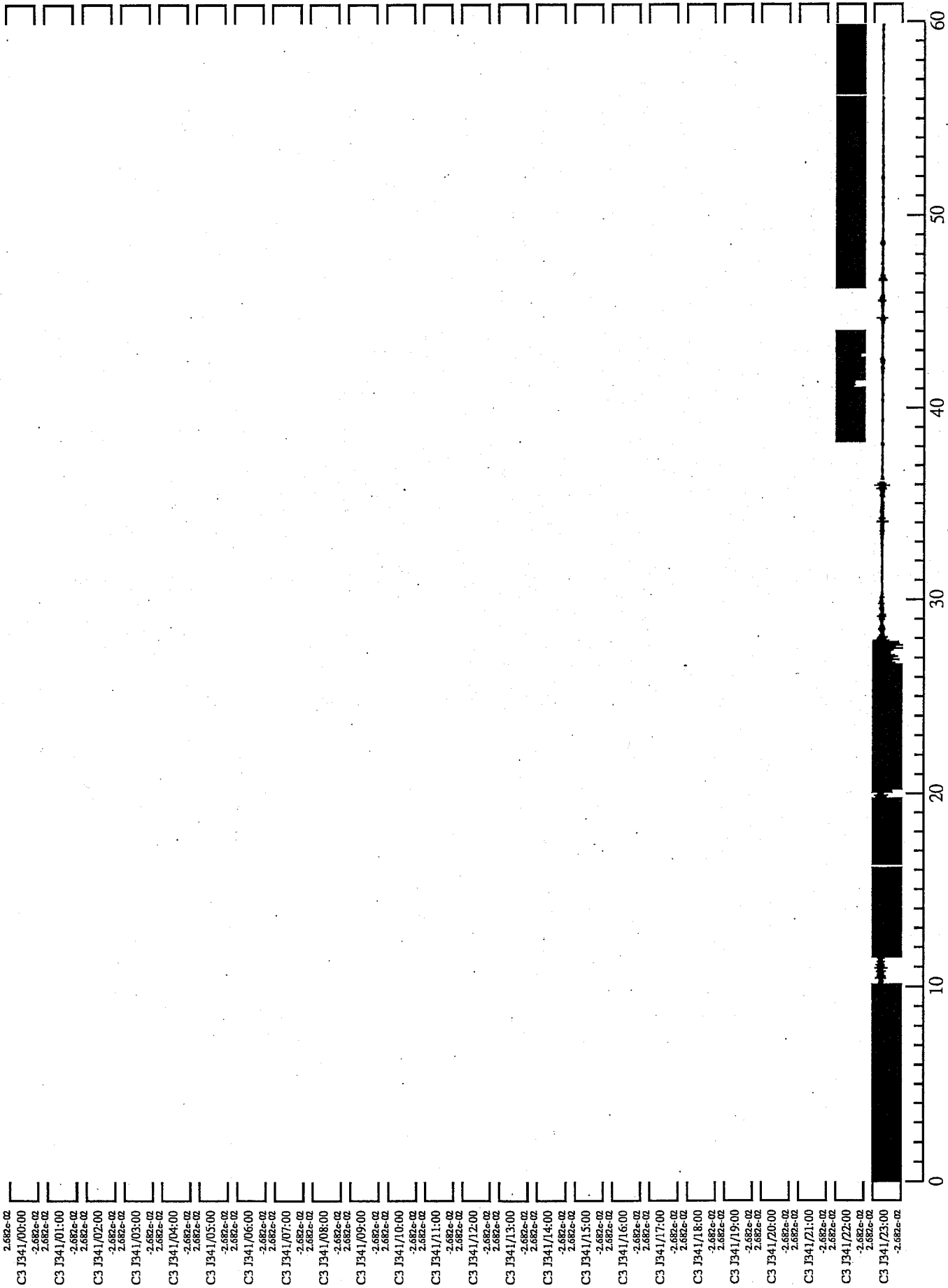


PSQL REFTEK DATA PLOT: DAS 0662 / Page 8 of 8 / Start Time=1994:348:00:00
Decimation = 1234, DPI = 85, Scaled by manual



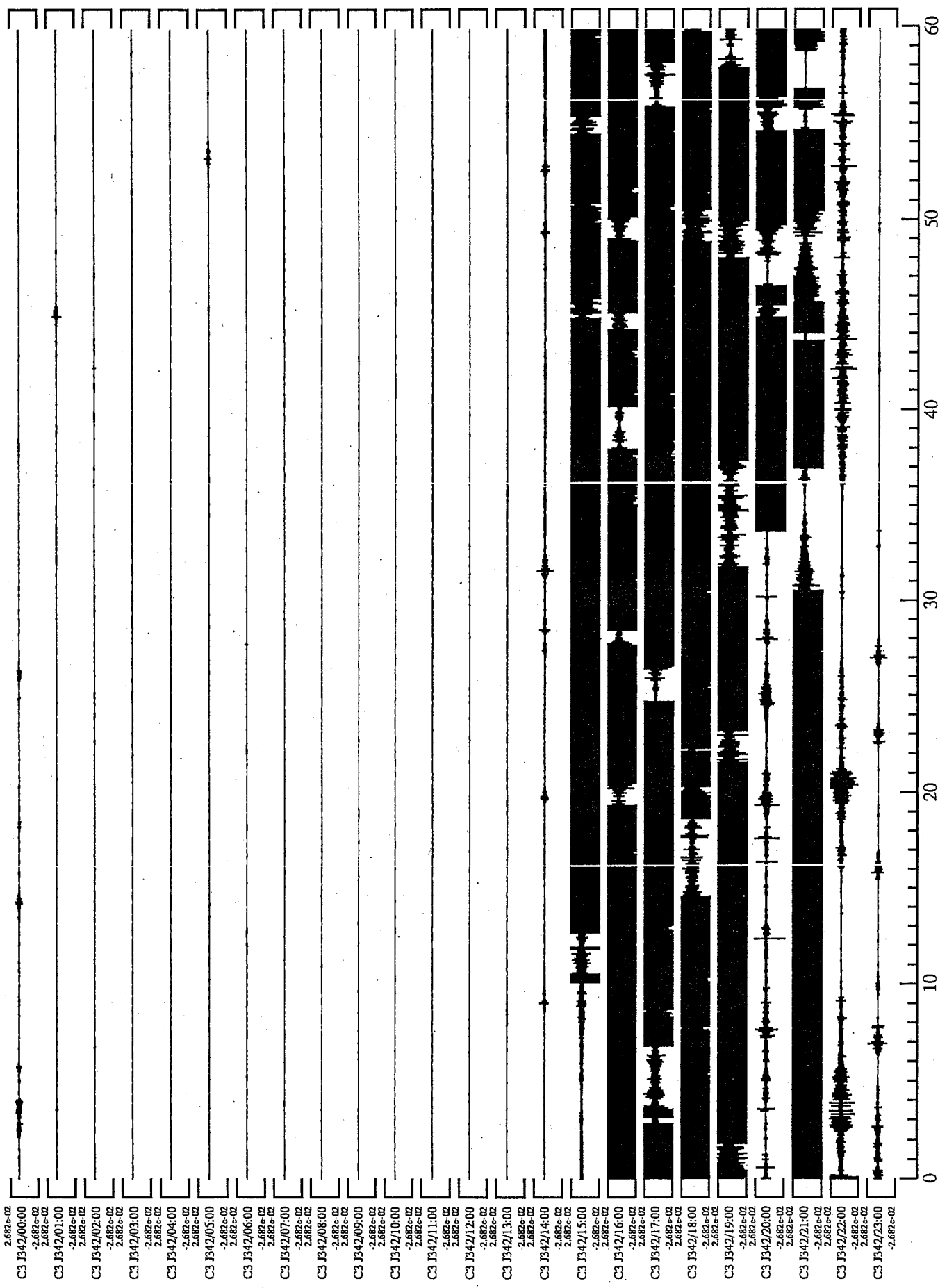
PSQL REFTEK DATA PLOT: DAS 0662 / Page 1 of 8 / Start Time=1994:341:00:00

Decimation = 1234, DPI = 85, Scaled by manual

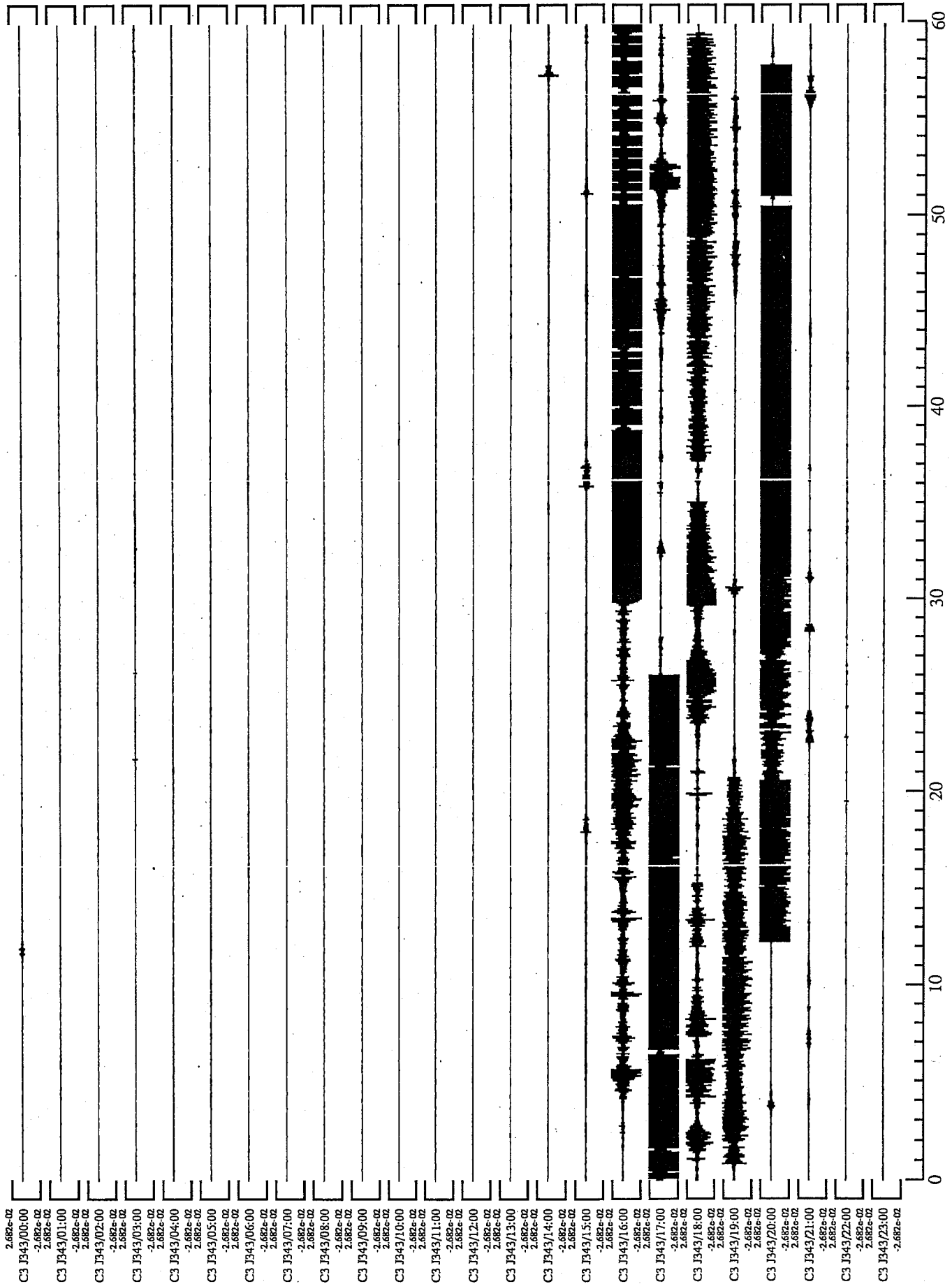


Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 8 / Start Time=1994:342:00:00
Decimation = 1234, DPI = 85, Scaled by manual



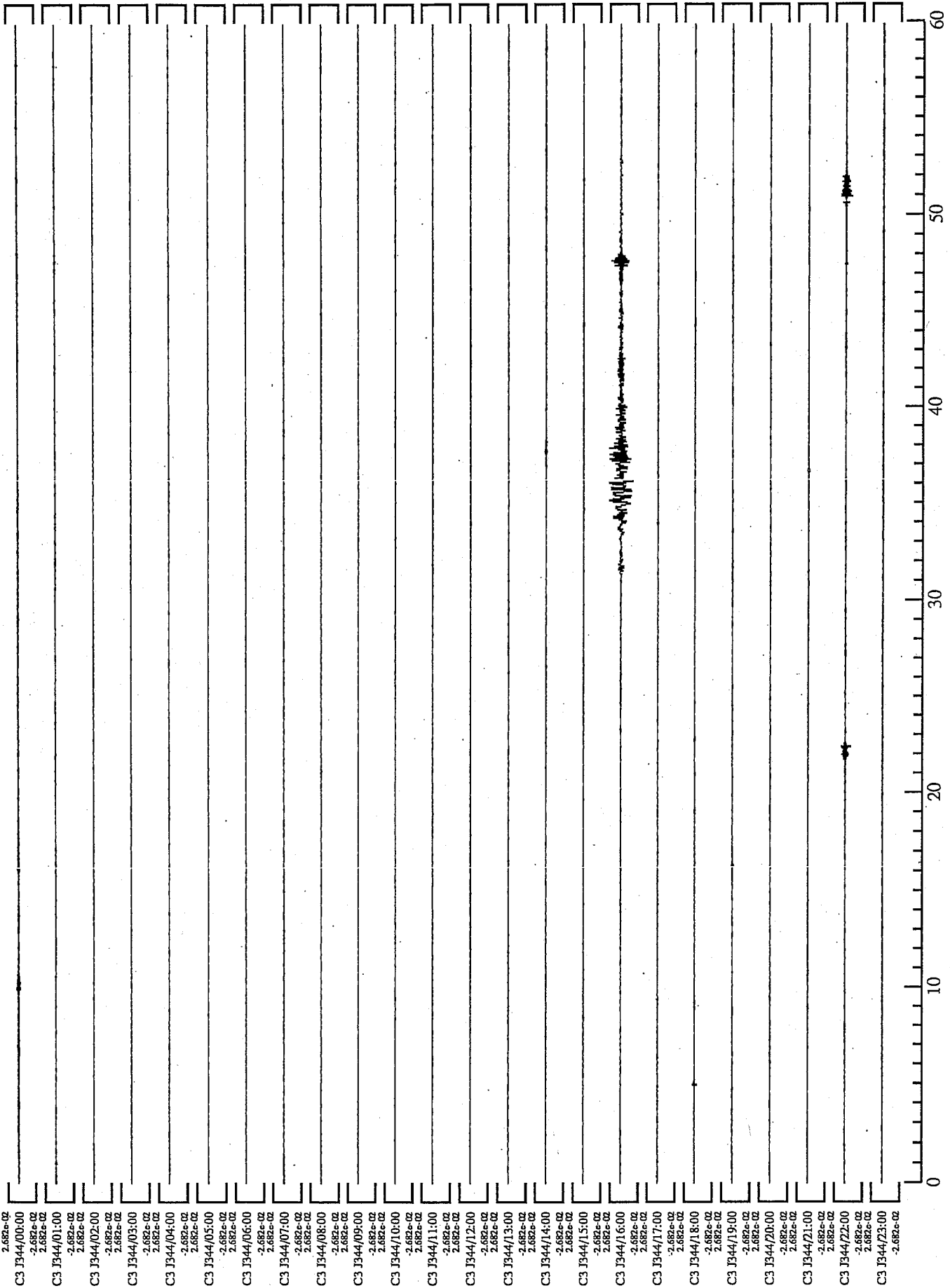
PSQL REFTEK DATA PLOT: DAS 0662 / Page 3 of 8 / Start Time=1994:343:00:00
Decimation = 1234, DPI = 85, Scaled by manual



Minutes

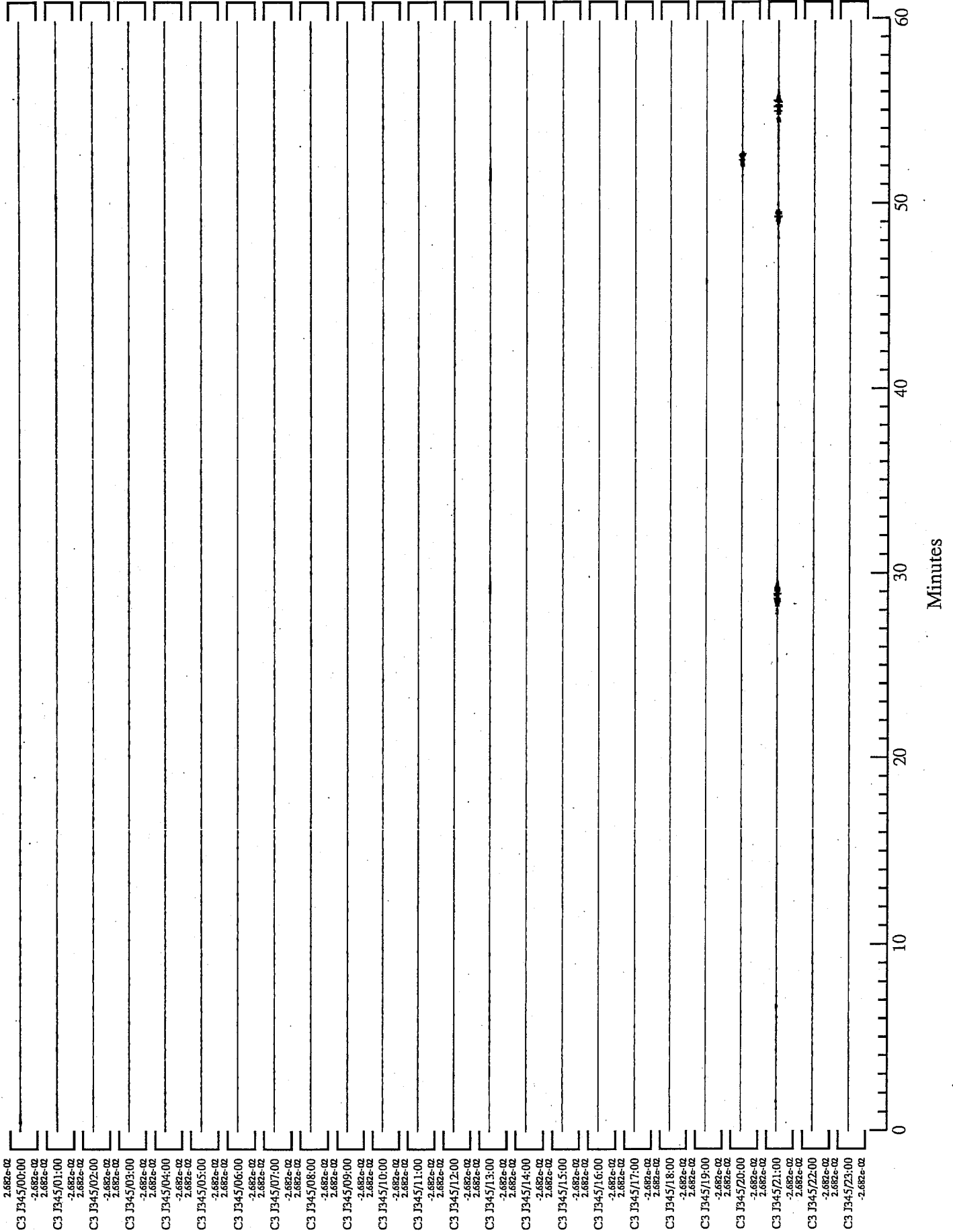
PSQL REFTEK DATA PLOT: DAS 0662 / Page 4 of 8 / Start Time=1994:344:00:00

Decimation = 1234, DPI = 85, Scaled by manual

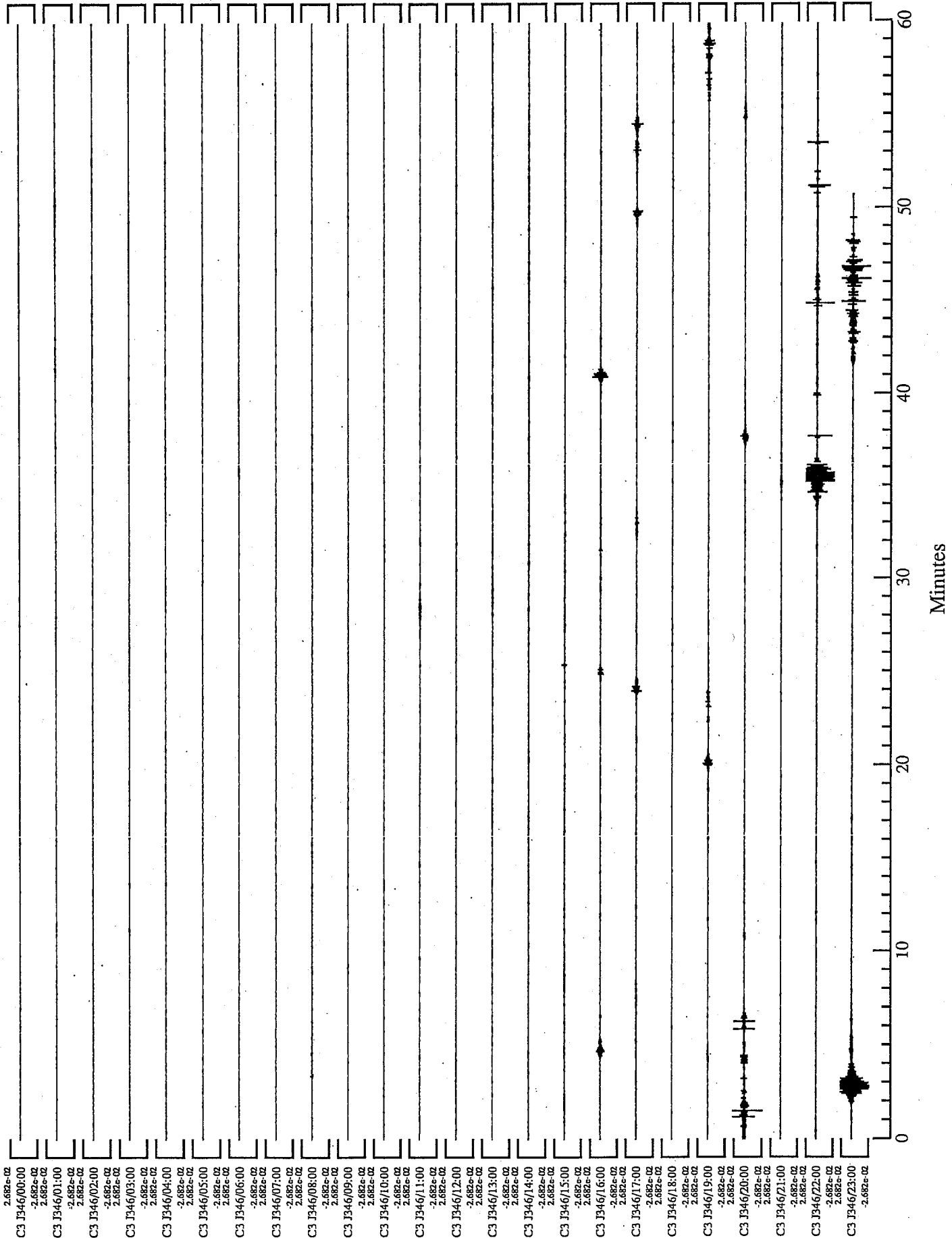


Minutes

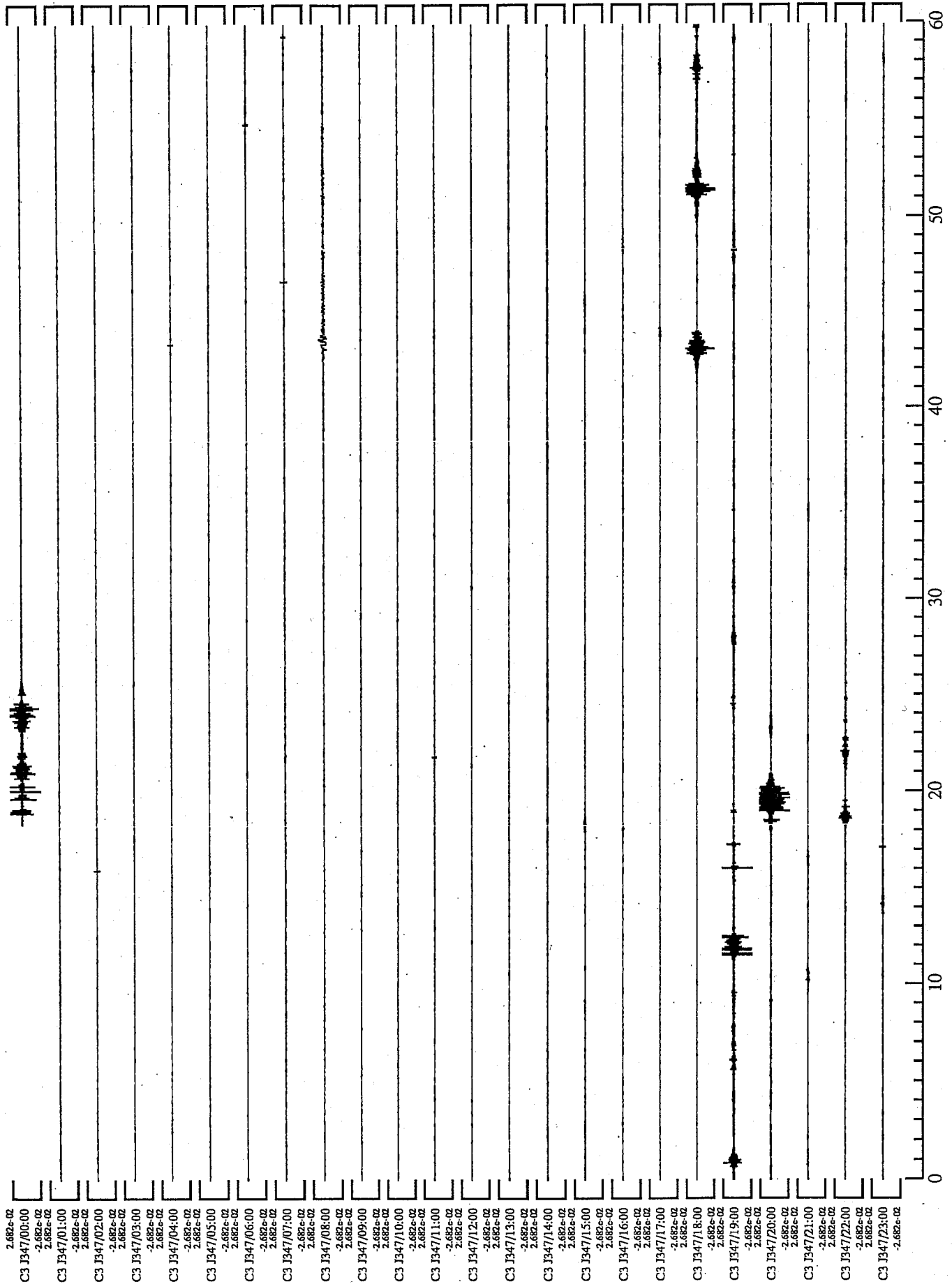
PSQL REFTEK DATA PLOT: DAS 0662 / Page 5 of 8 / Start Time=1994:345:00:00
Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 6 of 8 / Start Time=1994:346:00:00
Decimation = 1234, DPI = 85, Scaled by manual

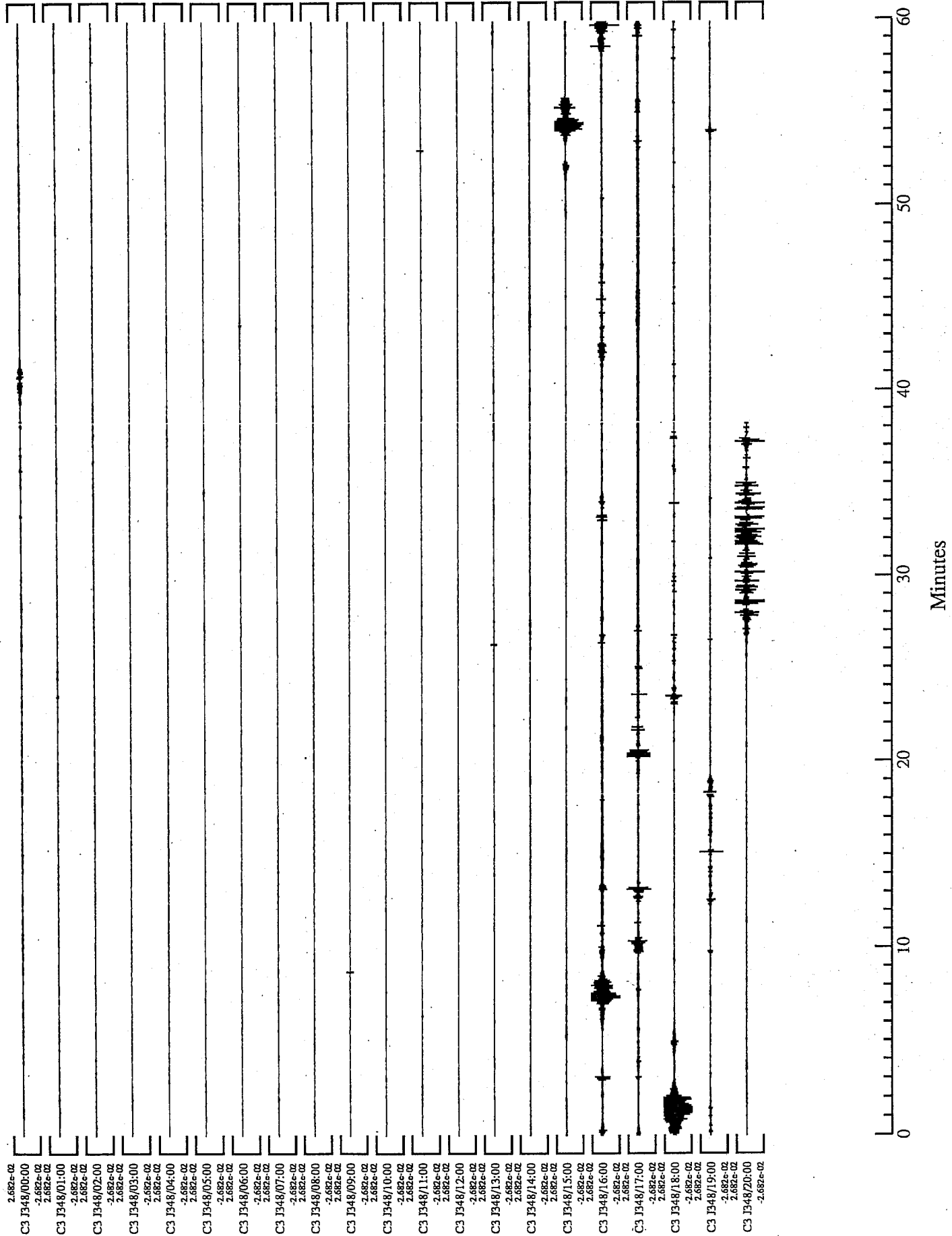


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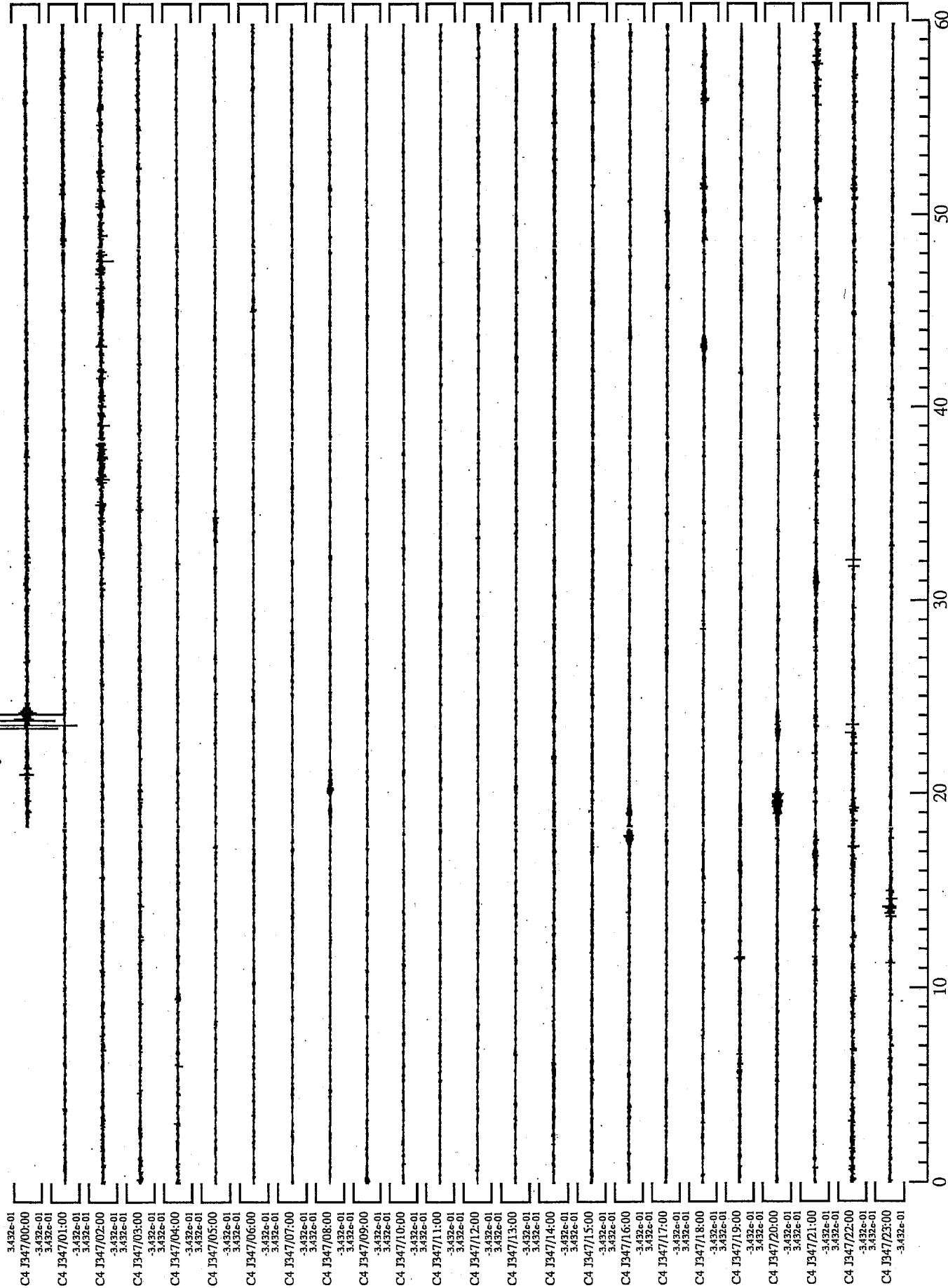
Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 8 of 8 / Start Time=1994:348:00:00
Decimation = 1234, DPI = 85, Scaled by manual



PSQL REFTEK DATA PLOT: DAS 0662 / Page 1 of 2 / Start Time=1994:347:00:00

Decimation = 1234, DPI = 85, Scaled by manual



Minutes

PSQL REFTEK DATA PLOT: DAS 0662 / Page 2 of 2 / Start Time=1994:348:00:00
Decimation = 1234, DPI = 85, Scaled by manual

