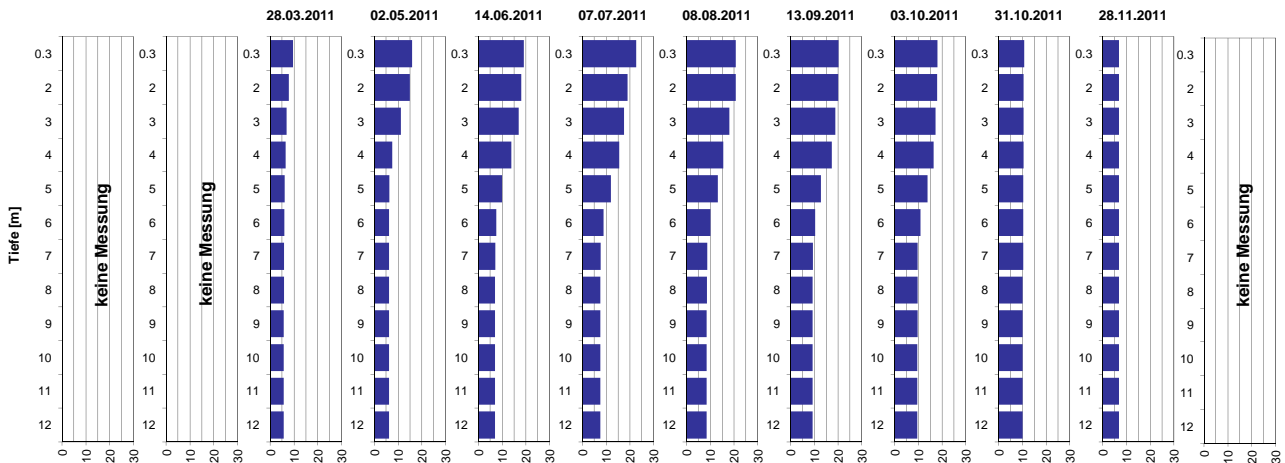


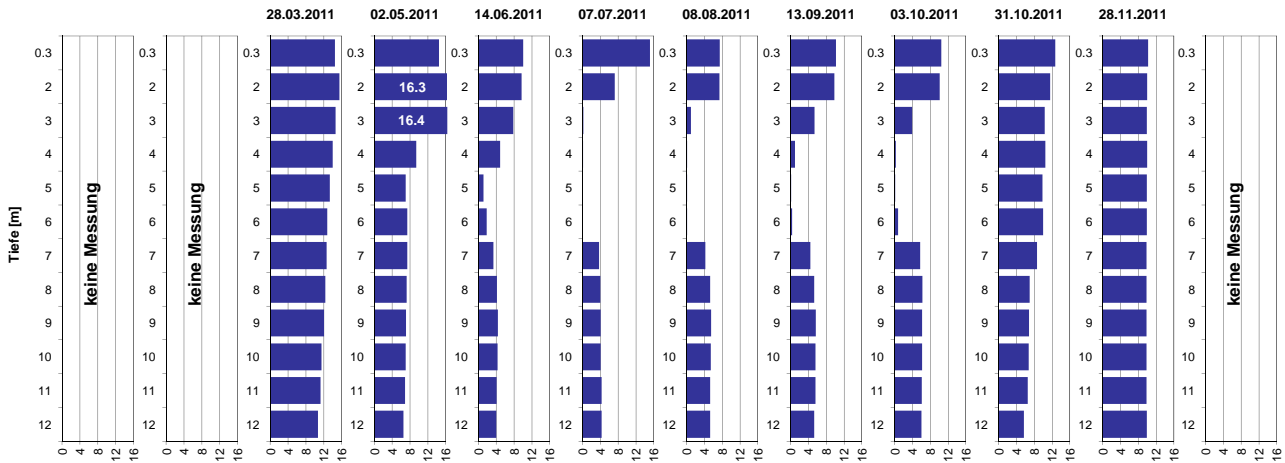
# Tiefenprofile Hüttnersee 2011

## Temperatur [°C]



| Tiefe [m] | 28.03.2011<br>Temp [°C] | 02.05.2011<br>Temp [°C] | 14.06.2011<br>Temp [°C] | 07.07.2011<br>Temp [°C] | 08.08.2011<br>Temp [°C] | 13.09.2011<br>Temp [°C] | 03.10.2011<br>Temp [°C] | 31.10.2011<br>Temp [°C] | 28.11.2011<br>Temp [°C] |
|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 0.3       | 9.5                     | 15.9                    | 19.1                    | 22.6                    | 20.8                    | 20.2                    | 18.0                    | 10.7                    | 6.8                     |
| 2.0       | 7.8                     | 14.9                    | 18.0                    | 19.0                    | 20.7                    | 20.1                    | 17.9                    | 10.5                    | 6.8                     |
| 3.0       | 6.8                     | 11.2                    | 16.9                    | 17.6                    | 18.0                    | 18.8                    | 17.3                    | 10.5                    | 6.8                     |
| 4.0       | 6.4                     | 7.5                     | 13.9                    | 15.4                    | 15.4                    | 17.4                    | 16.5                    | 10.4                    | 6.8                     |
| 5.0       | 6.1                     | 6.3                     | 9.9                     | 12.0                    | 13.2                    | 12.8                    | 13.9                    | 10.4                    | 6.8                     |
| 6.0       | 5.8                     | 6.1                     | 7.5                     | 8.8                     | 10.0                    | 10.4                    | 10.9                    | 10.3                    | 6.8                     |
| 7.0       | 5.7                     | 6.1                     | 7.1                     | 7.7                     | 8.7                     | 9.4                     | 9.7                     | 10.3                    | 6.8                     |
| 8.0       | 5.7                     | 6.1                     | 7.0                     | 7.5                     | 8.5                     | 9.3                     | 9.6                     | 10.1                    | 6.8                     |
| 9.0       | 5.7                     | 6.1                     | 7.0                     | 7.5                     | 8.5                     | 9.3                     | 9.6                     | 10.1                    | 6.8                     |
| 10.0      | 5.6                     | 6.1                     | 7.0                     | 7.5                     | 8.5                     | 9.3                     | 9.6                     | 10.1                    | 6.8                     |
| 11.0      | 5.6                     | 6.1                     | 7.0                     | 7.5                     | 8.5                     | 9.3                     | 9.6                     | 10.1                    | 6.8                     |
| 12.0      | 5.6                     | 6.1                     | 7.0                     | 7.5                     | 8.5                     | 9.2                     | 9.6                     | 10.0                    | 6.8                     |

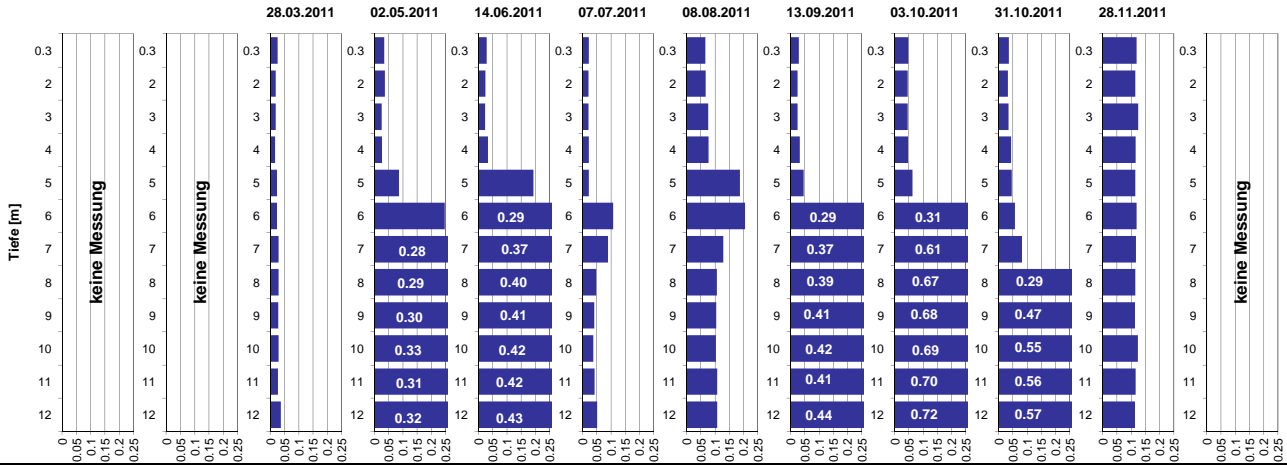
## Sauerstoff [mg O<sub>2</sub>/l]



| Tiefe [m] | 28.03.2011<br>O2 [mg O <sub>2</sub> /l] | 02.05.2011<br>O2 [mg O <sub>2</sub> /l] | 14.06.2011<br>O2 [mg O <sub>2</sub> /l] | 07.07.2011<br>O2 [mg O <sub>2</sub> /l] | 08.08.2011<br>O2 [mg O <sub>2</sub> /l] | 13.09.2011<br>O2 [mg O <sub>2</sub> /l] | 03.10.2011<br>O2 [mg O <sub>2</sub> /l] | 31.10.2011<br>O2 [mg O <sub>2</sub> /l] | 28.11.2011<br>O2 [mg O <sub>2</sub> /l] |
|-----------|---|---|---|---|---|---|---|---|---|
| 0.3       | 14.5                                    | 14.5                                    | 10.0                                    | 15.2                                    | 7.5                                     | 10.2                                    | 10.5                                    | 12.7                                    | 10.2                                    |
| 2.0       | 15.5                                    | 16.3                                    | 9.7                                     | 7.3                                     | 7.4                                     | 9.8                                     | 10.1                                    | 11.5                                    | 10.0                                    |
| 3.0       | 14.7                                    | 16.4                                    | 7.8                                     | 0.2                                     | 1.0                                     | 5.4                                     | 3.9                                     | 10.4                                    | 9.9                                     |
| 4.0       | 14.0                                    | 9.4                                     | 4.8                                     | 0.1                                     | 0.1                                     | 1.0                                     | 0.3                                     | 10.5                                    | 9.9                                     |
| 5.0       | 13.4                                    | 7.1                                     | 1.1                                     | 0.1                                     | 0.1                                     | 0.1                                     | 0.1                                     | 9.8                                     | 9.9                                     |
| 6.0       | 12.8                                    | 7.4                                     | 1.9                                     | 0.1                                     | 0.1                                     | 0.3                                     | 0.8                                     | 9.9                                     | 9.9                                     |
| 7.0       | 12.6                                    | 7.4                                     | 3.4                                     | 3.7                                     | 4.2                                     | 4.4                                     | 5.7                                     | 8.6                                     | 9.9                                     |
| 8.0       | 12.4                                    | 7.3                                     | 4.1                                     | 4.0                                     | 5.3                                     | 5.3                                     | 6.2                                     | 7.0                                     | 9.9                                     |
| 9.0       | 12.1                                    | 7.1                                     | 4.4                                     | 4.1                                     | 5.5                                     | 5.7                                     | 6.2                                     | 6.8                                     | 9.8                                     |
| 10.0      | 11.5                                    | 7.0                                     | 4.3                                     | 4.1                                     | 5.5                                     | 5.6                                     | 6.1                                     | 6.7                                     | 9.9                                     |
| 11.0      | 11.3                                    | 6.9                                     | 4.0                                     | 4.3                                     | 5.3                                     | 5.6                                     | 6.1                                     | 6.5                                     | 9.8                                     |
| 12.0      | 10.7                                    | 6.5                                     | 4.0                                     | 4.3                                     | 5.3                                     | 5.3                                     | 6.0                                     | 5.7                                     | 9.9                                     |

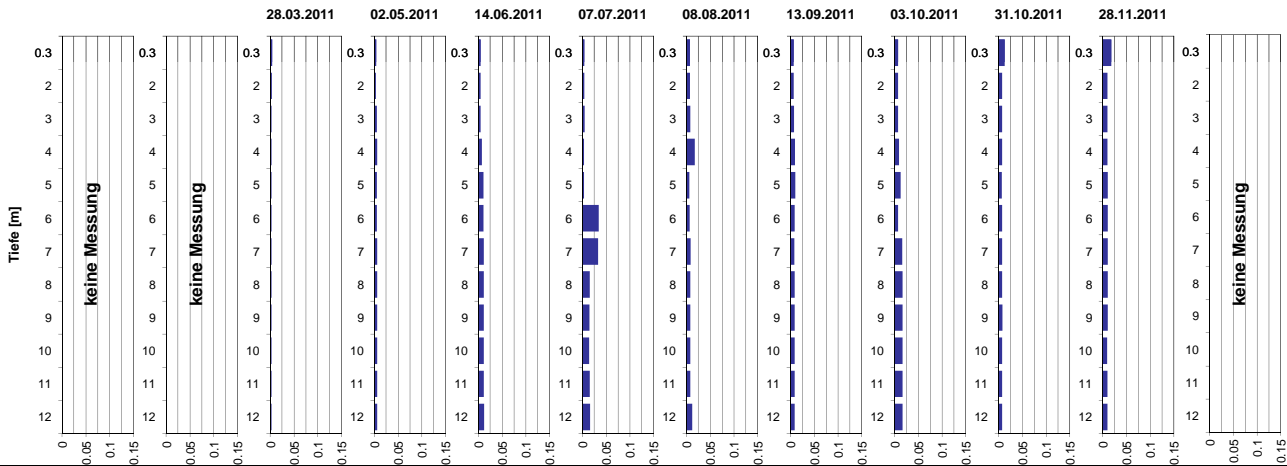
# Tiefenprofile Hüttnersee 2011

## Ammonium [mg NH<sub>4</sub>-N/l]



| Tiefe [m] | 28.03.2011<br>NH4-N<br>[mg N/l] | 02.05.2011<br>NH4-N<br>[mg N/l] | 14.06.2011<br>NH4-N<br>[mg N/l] | 07.07.2011<br>NH4-N<br>[mg N/l] | 08.08.2011<br>NH4-N<br>[mg N/l] | 13.09.2011<br>NH4-N<br>[mg N/l] | 03.10.2011<br>NH4-N<br>[mg N/l] | 31.10.2011<br>NH4-N<br>[mg N/l] | 28.11.2011<br>NH4-N<br>[mg N/l] |
|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 0.3       | keine Messung                   | 0.03                            | 0.03                            | 0.03                            | 0.02                            | 0.07                            | 0.03                            | 0.05                            | 0.12                            |
| 2.0       | keine Messung                   | 0.02                            | 0.04                            | 0.02                            | 0.02                            | 0.07                            | 0.02                            | 0.05                            | 0.11                            |
| 3.0       | keine Messung                   | 0.02                            | 0.03                            | 0.02                            | 0.02                            | 0.08                            | 0.05                            | 0.03                            | 0.12                            |
| 4.0       | keine Messung                   | 0.02                            | 0.03                            | 0.03                            | 0.02                            | 0.08                            | 0.05                            | 0.04                            | 0.12                            |
| 5.0       | keine Messung                   | 0.02                            | 0.09                            | 0.19                            | 0.02                            | 0.19                            | 0.06                            | 0.05                            | 0.11                            |
| 6.0       | keine Messung                   | 0.02                            | 0.25                            | 0.29                            | 0.11                            | 0.21                            | 0.31                            | 0.06                            | 0.12                            |
| 7.0       | keine Messung                   | 0.03                            | 0.28                            | 0.37                            | 0.09                            | 0.13                            | 0.37                            | 0.08                            | 0.12                            |
| 8.0       | keine Messung                   | 0.03                            | 0.29                            | 0.40                            | 0.05                            | 0.11                            | 0.39                            | 0.29                            | 0.11                            |
| 9.0       | keine Messung                   | 0.03                            | 0.30                            | 0.41                            | 0.04                            | 0.10                            | 0.68                            | 0.47                            | 0.11                            |
| 10.0      | keine Messung                   | 0.03                            | 0.33                            | 0.42                            | 0.04                            | 0.10                            | 0.69                            | 0.55                            | 0.12                            |
| 11.0      | keine Messung                   | 0.03                            | 0.31                            | 0.42                            | 0.04                            | 0.11                            | 0.41                            | 0.56                            | 0.12                            |
| 12.0      | keine Messung                   | 0.04                            | 0.32                            | 0.43                            | 0.05                            | 0.11                            | 0.44                            | 0.57                            | 0.11                            |

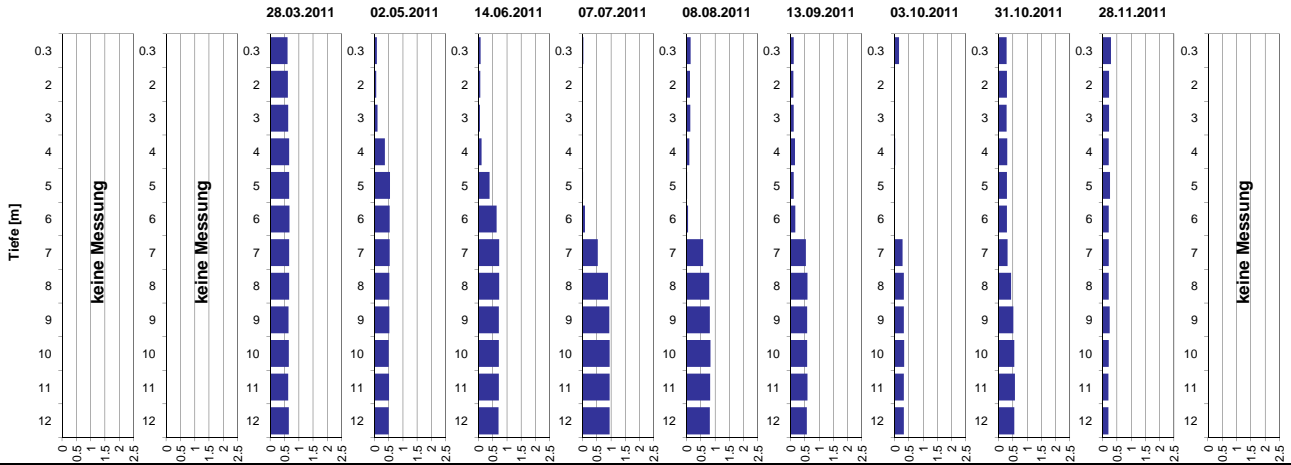
## Nitrit [mg NO<sub>2</sub>-N/l]



| Tiefe [m] | 28.03.2011<br>NO2-N<br>[mg N/l] | 02.05.2011<br>NO2-N<br>[mg N/l] | 14.06.2011<br>NO2-N<br>[mg N/l] | 07.07.2011<br>NO2-N<br>[mg N/l] | 08.08.2011<br>NO2-N<br>[mg N/l] | 13.09.2011<br>NO2-N<br>[mg N/l] | 03.10.2011<br>NO2-N<br>[mg N/l] | 31.10.2011<br>NO2-N<br>[mg N/l] | 28.11.2011<br>NO2-N<br>[mg N/l] |
|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 0.3       | keine Messung                   | 0.004                           | 0.004                           | 0.005                           | 0.004                           | 0.007                           | 0.006                           | 0.007                           | 0.018                           |
| 2.0       | keine Messung                   | 0.003                           | 0.003                           | 0.004                           | 0.004                           | 0.007                           | 0.006                           | 0.007                           | 0.010                           |
| 3.0       | keine Messung                   | 0.003                           | 0.005                           | 0.004                           | 0.004                           | 0.008                           | 0.007                           | 0.007                           | 0.010                           |
| 4.0       | keine Messung                   | 0.002                           | 0.006                           | 0.007                           | 0.003                           | 0.017                           | 0.009                           | 0.007                           | 0.010                           |
| 5.0       | keine Messung                   | 0.003                           | 0.005                           | 0.011                           | 0.003                           | 0.006                           | 0.010                           | 0.007                           | 0.010                           |
| 6.0       | keine Messung                   | 0.002                           | 0.005                           | 0.010                           | 0.034                           | 0.007                           | 0.008                           | 0.007                           | 0.010                           |
| 7.0       | keine Messung                   | 0.003                           | 0.006                           | 0.011                           | 0.033                           | 0.008                           | 0.008                           | 0.007                           | 0.011                           |
| 8.0       | keine Messung                   | 0.003                           | 0.006                           | 0.011                           | 0.015                           | 0.008                           | 0.008                           | 0.007                           | 0.010                           |
| 9.0       | keine Messung                   | 0.002                           | 0.006                           | 0.011                           | 0.014                           | 0.008                           | 0.009                           | 0.008                           | 0.011                           |
| 10.0      | keine Messung                   | 0.002                           | 0.006                           | 0.011                           | 0.014                           | 0.008                           | 0.017                           | 0.007                           | 0.009                           |
| 11.0      | keine Messung                   | 0.002                           | 0.006                           | 0.011                           | 0.015                           | 0.008                           | 0.008                           | 0.007                           | 0.010                           |
| 12.0      | keine Messung                   | 0.003                           | 0.006                           | 0.012                           | 0.016                           | 0.012                           | 0.008                           | 0.007                           | 0.010                           |

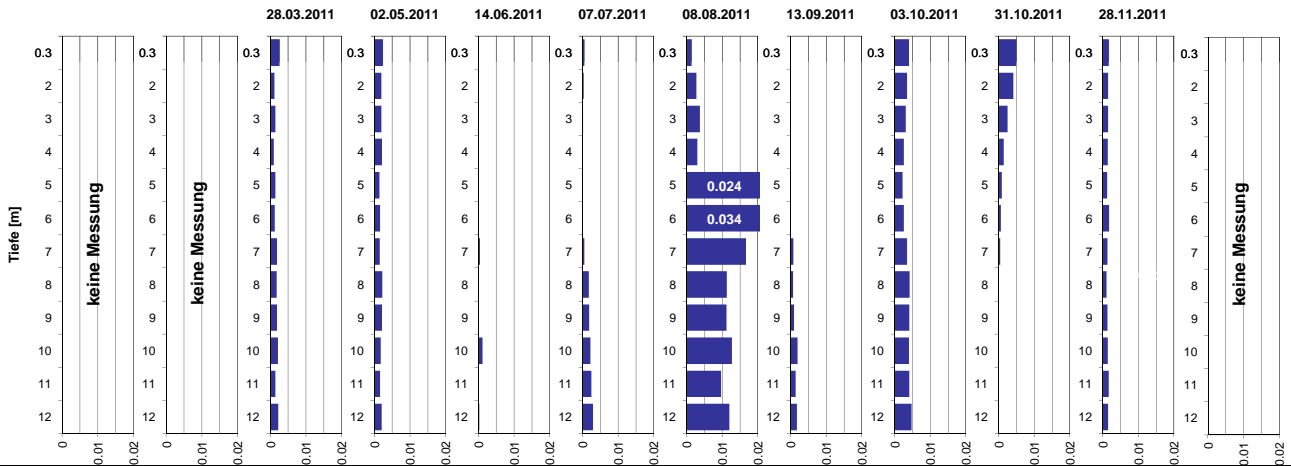
# Tiefenprofile Hüttnersee 2011

## Nitrat [mg NO<sub>3</sub>-N/l]



| Tiefe [m] | 28.03.2011<br>NO <sub>3</sub> -N<br>[mg N/l] | 02.05.2011<br>NO <sub>3</sub> -N<br>[mg N/l] | 14.06.2011<br>NO <sub>3</sub> -N<br>[mg N/l] | 07.07.2011<br>NO <sub>3</sub> -N<br>[mg N/l] | 08.08.2011<br>NO <sub>3</sub> -N<br>[mg N/l] | 13.09.2011<br>NO <sub>3</sub> -N<br>[mg N/l] | 03.10.2011<br>NO <sub>3</sub> -N<br>[mg N/l] | 31.10.2011<br>NO <sub>3</sub> -N<br>[mg N/l] | 28.11.2011<br>NO <sub>3</sub> -N<br>[mg N/l] |
|-----------|--|--|--|--|--|--|--|--|--|
| 0.3       | 0.6  | 0.1  | 0.1  | 0.0  | 0.1  | 0.1  | 0.2  | 0.3  | 0.3  |
| 2.0       | 0.6  | 0.1  | 0.1  | 0.0  | 0.1  | 0.1  | 0.0  | 0.3  | 0.2  |
| 3.0       | 0.6  | 0.1  | 0.1  | 0.0  | 0.1  | 0.1  | 0.0  | 0.3  | 0.2  |
| 4.0       | 0.7  | 0.4  | 0.1  | 0.0  | 0.1  | 0.1  | 0.0  | 0.3  | 0.2  |
| 5.0       | 0.7  | 0.5  | 0.4  | 0.0  | 0.0  | 0.1  | 0.0  | 0.3  | 0.3  |
| 6.0       | 0.7  | 0.5  | 0.6  | 0.1  | 0.0  | 0.2  | 0.0  | 0.3  | 0.2  |
| 7.0       | 0.7  | 0.5  | 0.7  | 0.5  | 0.6  | 0.5  | 0.3  | 0.3  | 0.2  |
| 8.0       | 0.7  | 0.5  | 0.7  | 0.9  | 0.8  | 0.6  | 0.3  | 0.4  | 0.2  |
| 9.0       | 0.6  | 0.5  | 0.7  | 0.9  | 0.8  | 0.6  | 0.3  | 0.5  | 0.2  |
| 10.0      | 0.6  | 0.5  | 0.7  | 0.9  | 0.8  | 0.6  | 0.3  | 0.5  | 0.2  |
| 11.0      | 0.6  | 0.5  | 0.7  | 1.0  | 0.8  | 0.6  | 0.3  | 0.6  | 0.2  |
| 12.0      | 0.6  | 0.5  | 0.7  | 0.9  | 0.8  | 0.6  | 0.3  | 0.6  | 0.2  |

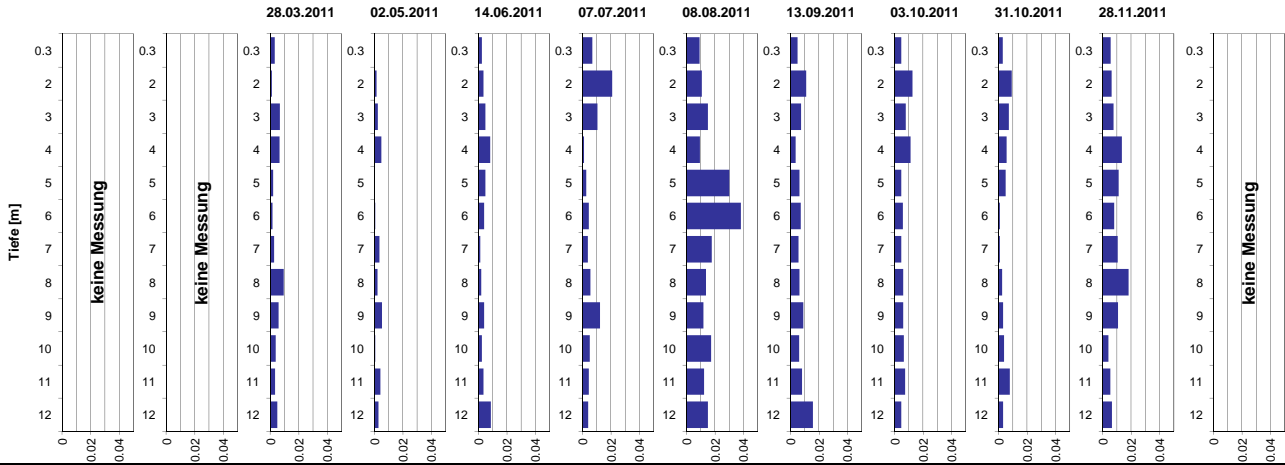
## Phosphat [mg PO<sub>4</sub>-P/l]



| Tiefe [m] | 28.03.2011<br>PO <sub>4</sub> -P<br>[mg P/l] | 02.05.2011<br>PO <sub>4</sub> -P<br>[mg P/l] | 14.06.2011<br>PO <sub>4</sub> -P<br>[mg P/l] | 07.07.2011<br>PO <sub>4</sub> -P<br>[mg P/l] | 08.08.2011<br>PO <sub>4</sub> -P<br>[mg P/l] | 13.09.2011<br>PO <sub>4</sub> -P<br>[mg P/l] | 03.10.2011<br>PO <sub>4</sub> -P<br>[mg P/l] | 31.10.2011<br>PO <sub>4</sub> -P<br>[mg P/l] | 28.11.2011<br>PO <sub>4</sub> -P<br>[mg P/l] |
|-----------|--|--|--|--|--|--|--|--|--|
| 0.3       | 0.003  | 0.002  | 0.000  | 0.000  | 0.001  | 0.000  | 0.004  | 0.005  | 0.002  |
| 2.0       | 0.001  | 0.002  | 0.000  | 0.000  | 0.003  | 0.000  | 0.004  | 0.004  | 0.002  |
| 3.0       | 0.001  | 0.002  | 0.000  | 0.000  | 0.004  | 0.000  | 0.003  | 0.002  | 0.001  |
| 4.0       | 0.001  | 0.002  | 0.000  | 0.000  | 0.003  | 0.000  | 0.003  | 0.001  | 0.001  |
| 5.0       | 0.001  | 0.001  | 0.000  | 0.000  | 0.024  | 0.000  | 0.002  | 0.001  | 0.001  |
| 6.0       | 0.001  | 0.002  | 0.000  | 0.000  | 0.034  | 0.000  | 0.003  | 0.001  | 0.002  |
| 7.0       | 0.002  | 0.002  | 0.000  | 0.000  | 0.017  | 0.001  | 0.003  | 0.000  | 0.001  |
| 8.0       | 0.002  | 0.002  | 0.000  | 0.002  | 0.011  | 0.001  | 0.004  | 0.000  | 0.001  |
| 9.0       | 0.002  | 0.002  | 0.000  | 0.002  | 0.011  | 0.001  | 0.004  | 0.000  | 0.001  |
| 10.0      | 0.002  | 0.002  | 0.001  | 0.002  | 0.013  | 0.002  | 0.004  | 0.000  | 0.001  |
| 11.0      | 0.001  | 0.002  | 0.000  | 0.002  | 0.010  | 0.001  | 0.004  | 0.000  | 0.002  |
| 12.0      | 0.002  | 0.002  | 0.000  | 0.003  | 0.012  | 0.002  | 0.005  | 0.000  | 0.002  |

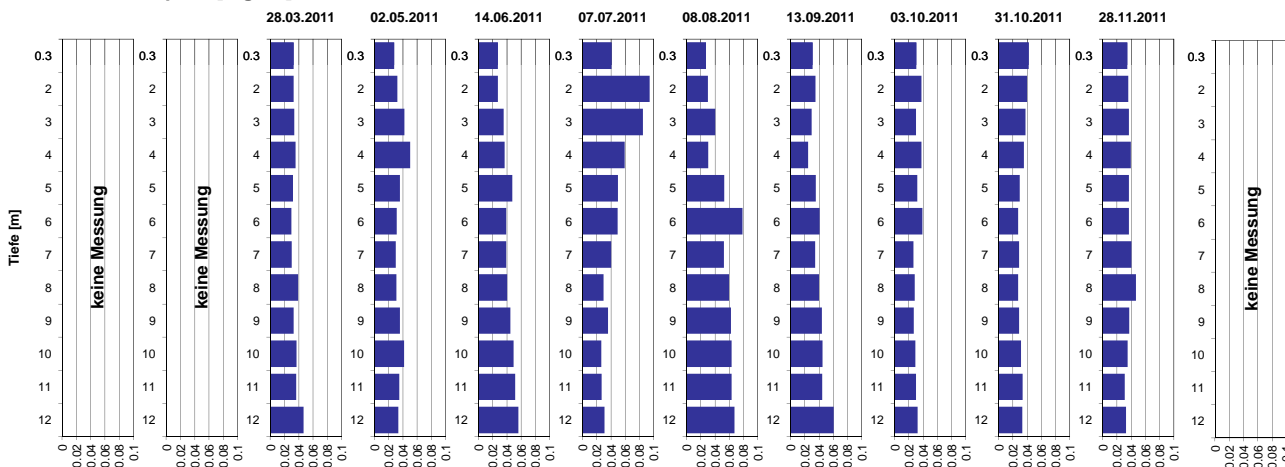
# Tiefenprofile Hüttnersee 2011

## Gelöster Phosphor [mg P/l]



| Tiefe [m] | 28.03.2011<br>P-gel<br>[mg P/l] | 02.05.2011<br>P-gel<br>[mg P/l] | 14.06.2011<br>P-gel<br>[mg P/l] | 07.07.2011<br>P-gel<br>[mg P/l] | 08.08.2011<br>P-gel<br>[mg P/l] | 13.09.2011<br>P-gel<br>[mg P/l] | 03.10.2011<br>P-gel<br>[mg P/l] | 31.10.2011<br>P-gel<br>[mg P/l] | 28.11.2011<br>P-gel<br>[mg P/l] |
|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 0.3       | 0.003                           | 0.000                           | 0.002                           | 0.007                           | 0.009                           | 0.005                           | 0.005                           | 0.003                           | 0.005                           |
| 2.0       | 0.001                           | 0.001                           | 0.003                           | 0.021                           | 0.011                           | 0.011                           | 0.012                           | 0.009                           | 0.006                           |
| 3.0       | 0.007                           | 0.002                           | 0.005                           | 0.010                           | 0.015                           | 0.007                           | 0.008                           | 0.007                           | 0.008                           |
| 4.0       | 0.006                           | 0.005                           | 0.008                           | 0.001                           | 0.009                           | 0.003                           | 0.011                           | 0.005                           | 0.013                           |
| 5.0       | 0.002                           | 0.000                           | 0.005                           | 0.003                           | 0.030                           | 0.006                           | 0.005                           | 0.005                           | 0.011                           |
| 6.0       | 0.002                           | 0.001                           | 0.004                           | 0.004                           | 0.038                           | 0.007                           | 0.006                           | 0.001                           | 0.008                           |
| 7.0       | 0.003                           | 0.004                           | 0.001                           | 0.004                           | 0.018                           | 0.006                           | 0.005                           | 0.001                           | 0.011                           |
| 8.0       | 0.009                           | 0.002                           | 0.002                           | 0.006                           | 0.014                           | 0.006                           | 0.006                           | 0.002                           | 0.018                           |
| 9.0       | 0.006                           | 0.005                           | 0.004                           | 0.012                           | 0.012                           | 0.009                           | 0.006                           | 0.003                           | 0.011                           |
| 10.0      | 0.004                           | 0.001                           | 0.002                           | 0.005                           | 0.017                           | 0.006                           | 0.006                           | 0.004                           | 0.004                           |
| 11.0      | 0.003                           | 0.004                           | 0.003                           | 0.004                           | 0.012                           | 0.008                           | 0.007                           | 0.008                           | 0.005                           |
| 12.0      | 0.005                           | 0.003                           | 0.009                           | 0.004                           | 0.015                           | 0.016                           | 0.005                           | 0.003                           | 0.006                           |

## Gesamt-Phosphor [mg P/l]



| Tiefe [m] | 28.03.2011<br>P-tot<br>[mg P/l] | 02.05.2011<br>P-tot<br>[mg P/l] | 14.06.2011<br>P-tot<br>[mg P/l] | 07.07.2011<br>P-tot<br>[mg P/l] | 08.08.2011<br>P-tot<br>[mg P/l] | 13.09.2011<br>P-tot<br>[mg P/l] | 03.10.2011<br>P-tot<br>[mg P/l] | 31.10.2011<br>P-tot<br>[mg P/l] | 28.11.2011<br>P-tot<br>[mg P/l] |
|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 0.3       | 0.033                           | 0.028                           | 0.027                           | 0.041                           | 0.027                           | 0.031                           | 0.030                           | 0.042                           | 0.034                           |
| 2.0       | 0.032                           | 0.032                           | 0.027                           | 0.094                           | 0.030                           | 0.035                           | 0.037                           | 0.040                           | 0.036                           |
| 3.0       | 0.034                           | 0.042                           | 0.035                           | 0.085                           | 0.040                           | 0.029                           | 0.030                           | 0.037                           | 0.037                           |
| 4.0       | 0.036                           | 0.050                           | 0.037                           | 0.059                           | 0.031                           | 0.025                           | 0.037                           | 0.035                           | 0.040                           |
| 5.0       | 0.032                           | 0.036                           | 0.048                           | 0.050                           | 0.053                           | 0.035                           | 0.032                           | 0.030                           | 0.036                           |
| 6.0       | 0.030                           | 0.032                           | 0.039                           | 0.049                           | 0.079                           | 0.041                           | 0.039                           | 0.027                           | 0.037                           |
| 7.0       | 0.030                           | 0.030                           | 0.039                           | 0.040                           | 0.052                           | 0.034                           | 0.026                           | 0.029                           | 0.040                           |
| 8.0       | 0.039                           | 0.031                           | 0.040                           | 0.030                           | 0.060                           | 0.040                           | 0.028                           | 0.027                           | 0.047                           |
| 9.0       | 0.033                           | 0.036                           | 0.045                           | 0.036                           | 0.062                           | 0.044                           | 0.027                           | 0.029                           | 0.037                           |
| 10.0      | 0.037                           | 0.042                           | 0.050                           | 0.026                           | 0.063                           | 0.045                           | 0.029                           | 0.031                           | 0.035                           |
| 11.0      | 0.036                           | 0.035                           | 0.051                           | 0.027                           | 0.063                           | 0.044                           | 0.030                           | 0.034                           | 0.031                           |
| 12.0      | 0.047                           | 0.034                           | 0.056                           | 0.031                           | 0.067                           | 0.060                           | 0.032                           | 0.033                           | 0.033                           |