

# Konzentrationen von SO<sub>2</sub>, NO<sub>2</sub>, O<sub>3</sub> und PM<sub>10</sub> aus dem Luftmessnetz des Umweltbundesamtes

## Oktober 2012

Basis der Statistik sind Halbstundenwerte kontinuierlich registrierender Messgeräte. Die 5-jährige Monatsstatistik berücksichtigt alle Halbstundenwerte aus dem jeweiligen Monat der vorangegangenen 5 Jahre.

Die Nachweisgrenzen sind: SO<sub>2</sub> 0.2 µg/m<sup>3</sup>, NO<sub>2</sub> 0.3 µg/m<sup>3</sup> Ozon 2 µg/m<sup>3</sup>. Die Messwerte der Gase und PM<sub>10</sub> sind auf 20 °C bezogen.

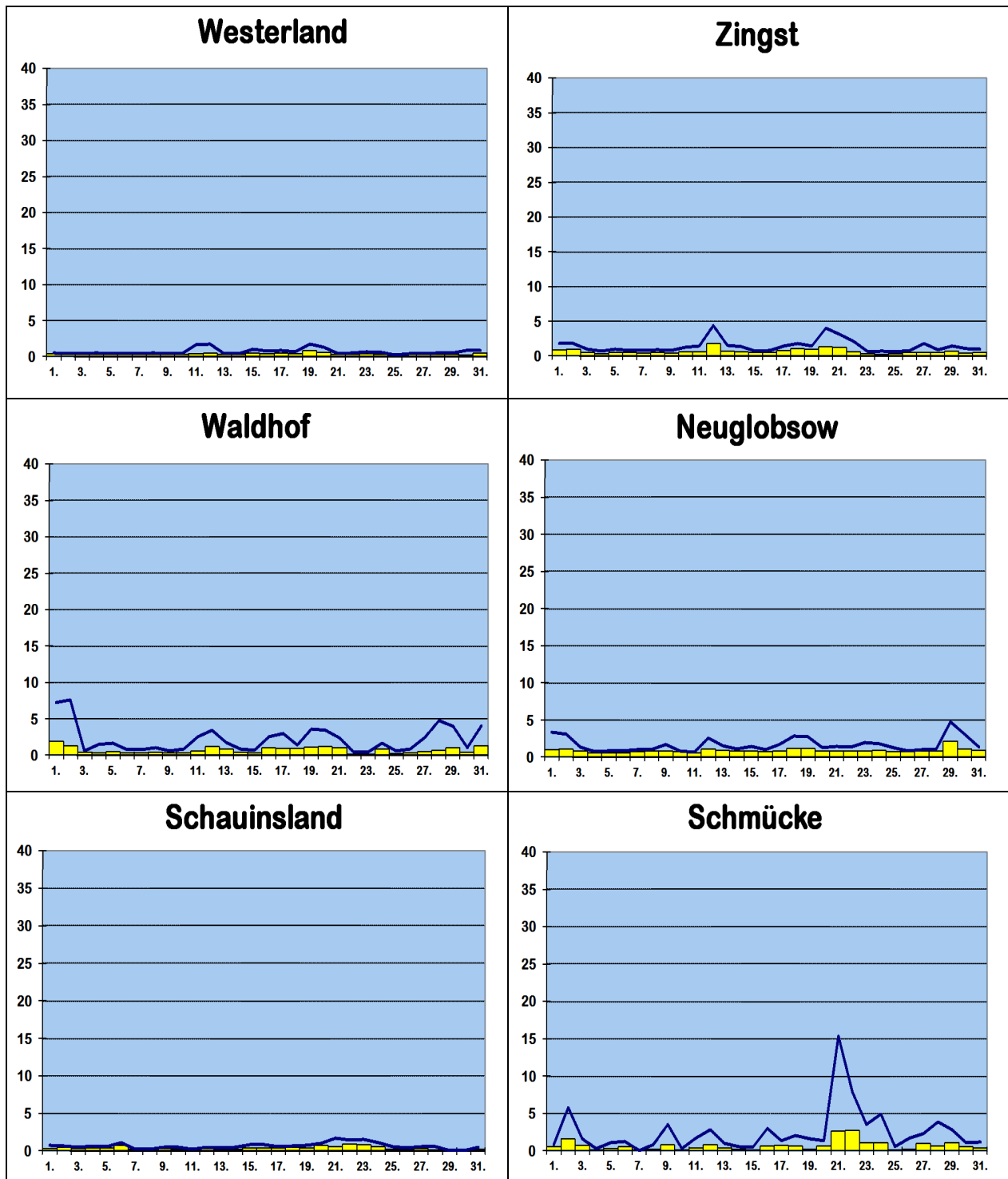
# Schwefeldioxid

in  $\mu\text{g}/\text{m}^3$ , bezogen auf 20 °C

|                 |                          | Westerland | Zingst | Neuglobsow | Waldhof | Schmücke | Schauinsland |
|-----------------|--------------------------|------------|--------|------------|---------|----------|--------------|
| Tagesmittel     | 1.                       | 0.4        | 0.9    | 1.0        | 1.9     | 0.5      | 0.3          |
|                 | 2.                       | 0.3        | 1.0    | 1.1        | 1.3     | 1.6      | 0.5          |
|                 | 3.                       | 0.3        | 0.5    | 0.8        | 0.4     | 0.7      | 0.3          |
|                 | 4.                       | 0.3        | 0.3    | 0.6        | 0.3     | 0.1      | 0.4          |
|                 | 5.                       | 0.3        | 0.5    | 0.6        | 0.5     | 0.3      | 0.4          |
|                 | 6.                       | 0.3        | 0.5    | 0.6        | 0.3     | 0.5      | 0.7          |
|                 | 7.                       | 0.3        | 0.4    | 0.7        | 0.3     | 0.1      | 0.2          |
|                 | 8.                       | 0.3        | 0.5    | 0.8        | 0.4     | 0.2      | 0.2          |
|                 | 9.                       | 0.3        | 0.4    | 0.8        | 0.3     | 0.8      | 0.3          |
|                 | 10.                      | 0.3        | 0.6    | 0.7        | 0.3     | 0.1      | 0.2          |
|                 | 11.                      | 0.4        | 0.6    | 0.6        | 0.6     | 0.4      | 0.3          |
|                 | 12.                      | 0.5        | 1.8    | 1.1        | 1.2     | 0.8      | 0.3          |
|                 | 13.                      | 0.3        | 0.7    | 0.9        | 0.8     | 0.4      | 0.2          |
|                 | 14.                      | 0.3        | 0.6    | 0.8        | 0.4     | 0.2      | 0.2          |
|                 | 15.                      | 0.5        | 0.5    | 0.8        | 0.3     | 0.1      | 0.4          |
|                 | 16.                      | 0.4        | 0.5    | 0.7        | 1.0     | 0.6      | 0.4          |
|                 | 17.                      | 0.5        | 0.8    | 0.8        | 0.9     | 0.7      | 0.4          |
|                 | 18.                      | 0.4        | 1.1    | 1.2        | 0.9     | 0.6      | 0.5          |
|                 | 19.                      | 0.8        | 1.0    | 1.2        | 1.1     | 0.2      | 0.4          |
|                 | 20.                      | 0.6        | 1.3    | 0.8        | 1.2     | 0.6      | 0.7          |
|                 | 21.                      | 0.3        | 1.2    | 0.8        | 1.0     | 2.6      | 0.6          |
|                 | 22.                      | 0.3        | 0.6    | 0.8        | 0.1     | 2.7      | 0.9          |
|                 | 23.                      | 0.4        | 0.3    | 0.8        | 0.1     | 1.1      | 0.8          |
|                 | 24.                      | 0.3        | 0.2    | 0.9        | 0.8     | 1.1      | 0.6          |
|                 | 25.                      | 0.2        | 0.3    | 0.7        | 0.2     | 0.1      | 0.2          |
|                 | 26.                      | 0.3        | 0.5    | 0.7        | 0.3     | 0.2      | 0.1          |
|                 | 27.                      | 0.3        | 0.5    | 0.8        | 0.5     | 1.0      | 0.3          |
|                 | 28.                      | 0.3        | 0.5    | 0.8        | 0.7     | 0.6      | 0.1          |
|                 | 29.                      | 0.3        | 0.7    | 2.1        | 1.0     | 1.1      | 0.1          |
|                 | 30.                      | 0.2        | 0.4    | 1.1        | 0.4     | 0.5      | 0.1          |
|                 | 31.                      | 0.5        | 0.5    | 0.9        | 1.3     | 0.4      | 0.2          |
| Monatsstatistik | Monatsmittel             | 0.4        | 0.7    | 0.9        | 0.7     | 0.7      | 0.4          |
|                 | Maximales Tagesmittel    | 0.8        | 1.8    | 2.1        | 1.9     | 2.7      | 0.9          |
|                 | Median                   | 0.3        | 0.5    | 0.7        | 0.4     | 0.4      | 0.3          |
|                 | 98-Perzentil             | 1.0        | 1.9    | 2.5        | 3.0     | 3.9      | 1.2          |
|                 | 5-jähr. Monatsmittel     | 1.0        | 1.4    | 1.4        | 1.5     | 1.3      | 0.8          |
|                 | 5-jähr. max. Tagesmittel | 3.8        | 5.9    | 3.9        | 4.1     | 9.2      | 2.4          |

# Schwefeldioxid

in  $\mu\text{g}/\text{m}^3$ , bezogen auf 20 °C



Tagesmittel
  Tagesmaxima

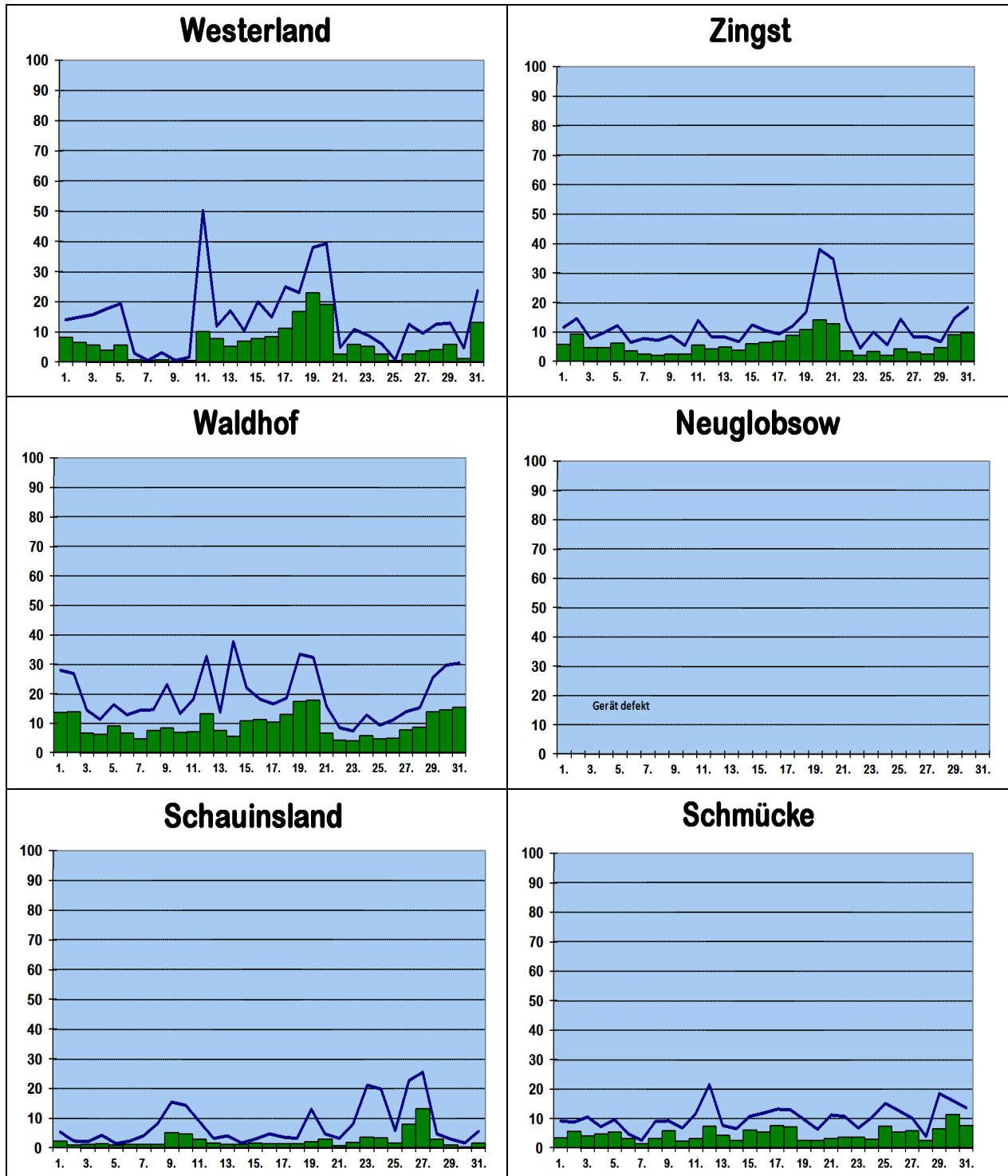
# Stickstoffdioxid

in  $\mu\text{g}/\text{m}^3$ , bezogen auf 20 °C

|                 |                          | Wester-<br>land | Zingst | Neu-<br>globsow | Waldhof | Schmücke | Schau-<br>insland |
|-----------------|--------------------------|-----------------|--------|-----------------|---------|----------|-------------------|
| Tagesmittel     | 1.                       | 8.3             | 5.9    | -               | 13.6    | 3.5      | 2.3               |
|                 | 2.                       | 6.5             | 9.2    | -               | 13.9    | 5.7      | 1.0               |
|                 | 3.                       | 5.6             | 4.7    | -               | 6.7     | 4.1      | 1.1               |
|                 | 4.                       | 3.9             | 4.6    | -               | 6.2     | 4.7      | 1.4               |
|                 | 5.                       | 5.6             | 6.2    | -               | 9.0     | 5.3      | 0.9               |
|                 | 6.                       | 0.7             | 3.7    | -               | 6.7     | 3.3      | 1.2               |
|                 | 7.                       | 0.5             | 2.5    | -               | 4.8     | 1.5      | 1.1               |
|                 | 8.                       | 0.7             | 2.1    | -               | 7.6     | 3.1      | 1.2               |
|                 | 9.                       | 0.4             | 2.5    | -               | 8.5     | 5.8      | 5.1               |
|                 | 10.                      | 0.6             | 2.6    | -               | 7.0     | 2.4      | 4.8               |
|                 | 11.                      | 10.1            | 5.6    | -               | 7.2     | 3.1      | 2.9               |
|                 | 12.                      | 7.8             | 4.3    | -               | 13.3    | 7.3      | 1.7               |
|                 | 13.                      | 5.3             | 5.0    | -               | 7.5     | 4.4      | 1.1               |
|                 | 14.                      | 6.9             | 3.9    | -               | 5.6     | 2.5      | 1.1               |
|                 | 15.                      | 7.8             | 6.0    | -               | 10.9    | 6.1      | 1.6               |
|                 | 16.                      | 8.5             | 6.5    | -               | 11.2    | 5.3      | 1.5               |
|                 | 17.                      | 11.2            | 6.8    | -               | 10.3    | 7.5      | 1.5               |
|                 | 18.                      | 16.8            | 8.9    | -               | 13.0    | 7.1      | 1.5               |
|                 | 19.                      | 22.9            | 10.8   | -               | 17.4    | 2.5      | 2.0               |
|                 | 20.                      | 19.2            | 14.1   | -               | 17.9    | 2.6      | 2.9               |
|                 | 21.                      | 2.6             | 12.7   | -               | 6.6     | 3.1      | 0.8               |
|                 | 22.                      | 5.8             | 3.7    | -               | 4.3     | 3.7      | 1.9               |
|                 | 23.                      | 5.2             | 2.0    | -               | 4.1     | 3.7      | 3.7               |
|                 | 24.                      | 2.6             | 3.5    | -               | 5.9     | 2.9      | 3.3               |
|                 | 25.                      | 0.6             | 2.0    | -               | 4.7     | 7.3      | 1.7               |
|                 | 26.                      | 2.7             | 4.3    | -               | 4.9     | 5.4      | 7.9               |
|                 | 27.                      | 3.8             | 3.1    | -               | 7.7     | 5.9      | 13.3              |
|                 | 28.                      | 4.1             | 2.5    | -               | 8.6     | 2.6      | 3.0               |
|                 | 29.                      | 5.9             | 4.6    | -               | 13.9    | 6.4      | 1.0               |
|                 | 30.                      | 1.1             | 9.1    | -               | 14.5    | 11.4     | 0.4               |
|                 | 31.                      | 13.1            | 9.7    | -               | 15.4    | 7.6      | 1.7               |
| Monatsstatistik | Monatsmittel             | 6.3             | 5.6    | -               | 9.3     | 4.8      | 2.5               |
|                 | Maximales Tagesmittel    | 22.9            | 14.1   | -               | 17.9    | 11.4     | 13.3              |
|                 | Median                   | 3.4             | 4.6    | -               | 7.7     | 3.9      | 1.3               |
|                 | 98-Perzentil             | 33.5            | 15.1   | -               | 27.0    | 13.8     | 14.7              |
|                 | 5-jähr. Monatsmittel     | 0.0             | 6.5    | 5.7             | 8.8     | 6.4      | 2.8               |
|                 | 5-jähr. max. Tagesmittel | 27.3            | 19.5   | 16.3            | 23.7    | 17.3     | 12.0              |

# Stickstoffdioxid

in  $\mu\text{g}/\text{m}^3$ , bezogen auf 20 °C



■ Tagesmittel — Tagesmaxima

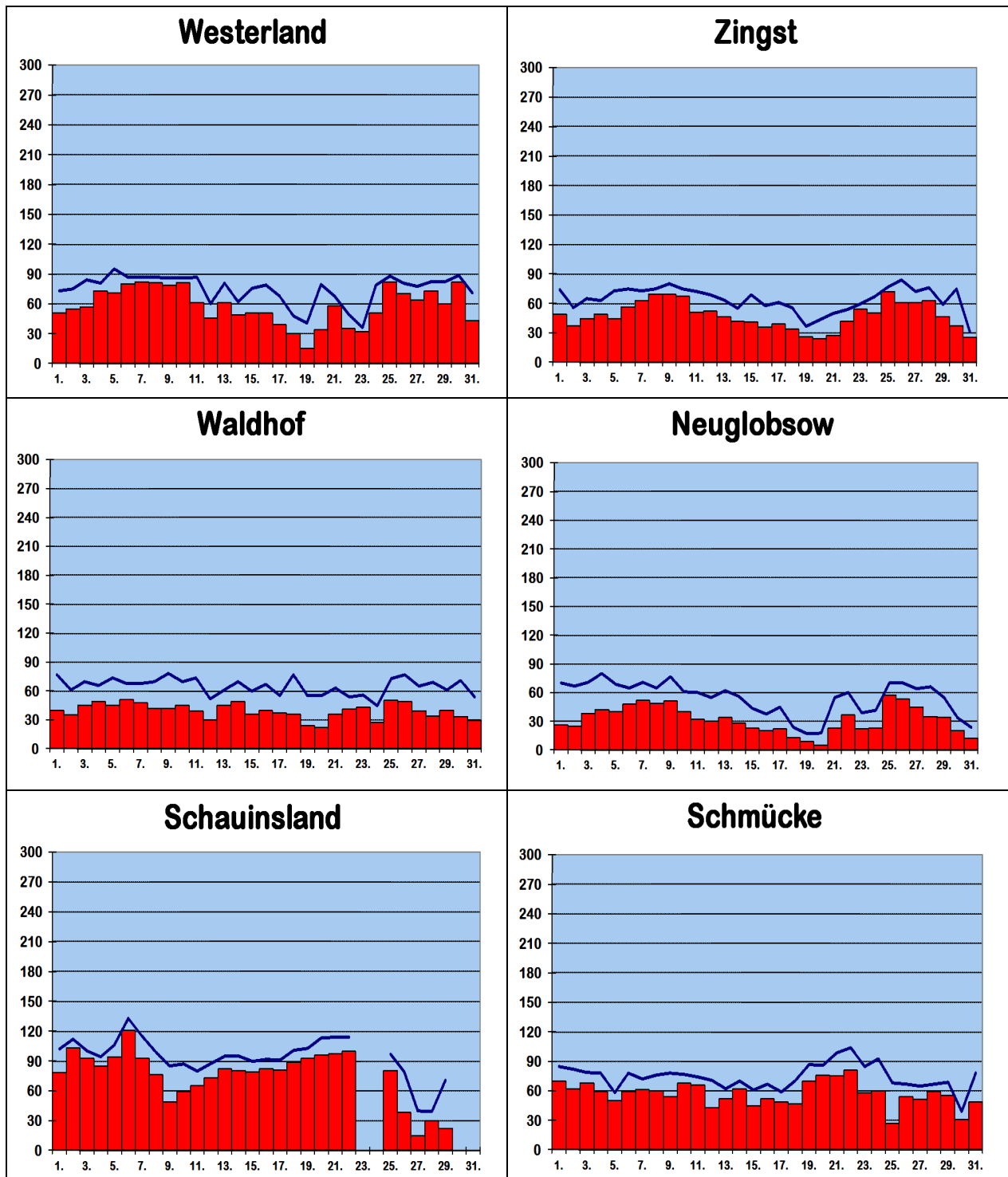
# Ozon

in  $\mu\text{g}/\text{m}^3$ , bezogen auf 20 °C

|                 |                                 | Westerland | Zingst    | Neuglobsow | Waldhof   | Schmücke   | Schauinsland |
|-----------------|---------------------------------|------------|-----------|------------|-----------|------------|--------------|
| Tagesmittel     | 1.                              | 51         | 49        | 26         | 40        | 70         | 78           |
|                 | 2.                              | 55         | 37        | 25         | 35        | 62         | 103          |
|                 | 3.                              | 57         | 44        | 38         | 45        | 68         | 93           |
|                 | 4.                              | 73         | 49        | 42         | 49        | 59         | 85           |
|                 | 5.                              | 71         | 44        | 40         | 45        | 50         | 94           |
|                 | 6.                              | 80         | 56        | 48         | 51        | 59         | 121          |
|                 | 7.                              | 82         | 63        | 52         | 48        | 61         | 93           |
|                 | 8.                              | 81         | 69        | 49         | 42        | 60         | 76           |
|                 | 9.                              | 79         | 69        | 51         | 42        | 54         | 49           |
|                 | 10.                             | 81         | 67        | 40         | 45        | 68         | 59           |
|                 | 11.                             | 61         | 51        | 32         | 39        | 66         | 65           |
|                 | 12.                             | 46         | 52        | 30         | 30        | 43         | 73           |
|                 | 13.                             | 61         | 46        | 34         | 45        | 52         | 82           |
|                 | 14.                             | 49         | 42        | 28         | 49        | 62         | 80           |
|                 | 15.                             | 51         | 41        | 23         | 36        | 45         | 79           |
|                 | 16.                             | 51         | 36        | 20         | 40        | 52         | 82           |
|                 | 17.                             | 39         | 39        | 22         | 37        | 49         | 81           |
|                 | 18.                             | 30         | 34        | 13         | 36        | 47         | 89           |
|                 | 19.                             | 15         | 26        | 9          | 24        | 70         | 93           |
|                 | 20.                             | 34         | 24        | 5          | 22        | 76         | 96           |
|                 | 21.                             | 58         | 27        | 23         | 36        | 75         | 97           |
|                 | 22.                             | 35         | 42        | 37         | 41        | 81         | 100          |
|                 | 23.                             | 32         | 54        | 22         | 43        | 58         | -            |
|                 | 24.                             | 51         | 50        | 23         | 27        | 60         | -            |
|                 | 25.                             | 82         | 72        | 57         | 50        | 27         | 80           |
|                 | 26.                             | 70         | 61        | 53         | 49        | 54         | 38           |
|                 | 27.                             | 64         | 61        | 45         | 39        | 51         | 15           |
|                 | 28.                             | 73         | 63        | 35         | 34        | 59         | 30           |
|                 | 29.                             | 60         | 46        | 34         | 40        | 55         | 22           |
|                 | 30.                             | 82         | 37        | 20         | 33        | 31         | -            |
|                 | 31.                             | 43         | 25        | 12         | 29        | 49         | -            |
| Monatsstatistik | <b>Monatsmittel</b>             | <b>58</b>  | <b>48</b> | <b>32</b>  | <b>39</b> | <b>57</b>  | <b>76</b>    |
|                 | <b>Maximales Tagesmittel</b>    | <b>82</b>  | <b>72</b> | <b>57</b>  | <b>51</b> | <b>81</b>  | <b>121</b>   |
|                 | <b>Median</b>                   | <b>62</b>  | <b>47</b> | <b>29</b>  | <b>39</b> | <b>58</b>  | <b>82</b>    |
|                 | <b>98-Perzentil</b>             | <b>86</b>  | <b>76</b> | <b>69</b>  | <b>71</b> | <b>88</b>  | <b>121</b>   |
|                 | <b>Max. 1-Stundenmittel</b>     | <b>95</b>  | <b>84</b> | <b>79</b>  | <b>77</b> | <b>103</b> | <b>133</b>   |
|                 | <b>5-jähr. Monatsmittel</b>     | <b>54</b>  | <b>45</b> | <b>33</b>  | <b>35</b> | <b>52</b>  | <b>73</b>    |
|                 | <b>5-jähr. max. Tagesmittel</b> | <b>91</b>  | <b>72</b> | <b>67</b>  | <b>73</b> | <b>111</b> | <b>121</b>   |

# Ozon

in  $\mu\text{g}/\text{m}^3$ , bezogen auf 20 °C



■ Tagesmittel — Tagesmaxima

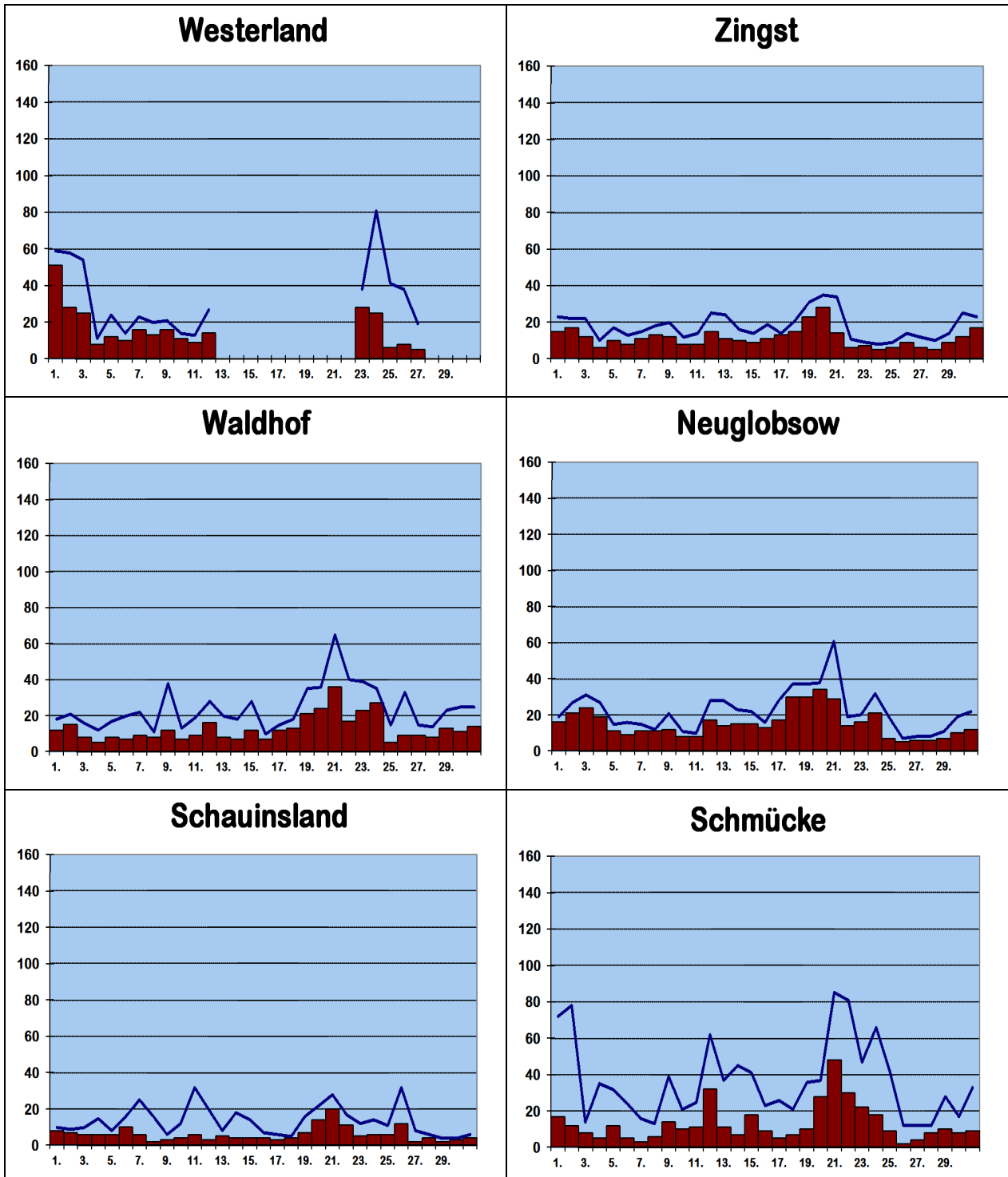
# Feinstaub PM<sub>10</sub>

in µg/m<sup>3</sup>, bezogen auf 20 °C

|                 |                                 | Wester-<br>land | Zingst | Neu-<br>globow | Waldhof | Schmücke | Schau-<br>insland |
|-----------------|---------------------------------|-----------------|--------|----------------|---------|----------|-------------------|
| Tagesmittel     | 1.                              | 51              | 15     | 16             | 12      | 17       | 8                 |
|                 | 2.                              | 28              | 17     | 21             | 15      | 12       | 7                 |
|                 | 3.                              | 25              | 12     | 24             | 8       | 8        | 6                 |
|                 | 4.                              | 8               | 6      | 19             | 5       | 5        | 6                 |
|                 | 5.                              | 12              | 10     | 11             | 8       | 12       | 6                 |
|                 | 6.                              | 10              | 8      | 9              | 7       | 5        | 10                |
|                 | 7.                              | 16              | 11     | 11             | 9       | 3        | 6                 |
|                 | 8.                              | 13              | 13     | 11             | 8       | 6        | 2                 |
|                 | 9.                              | 16              | 12     | 12             | 12      | 14       | 3                 |
|                 | 10.                             | 11              | 8      | 8              | 7       | 10       | 4                 |
|                 | 11.                             | 9               | 8      | 8              | 9       | 11       | 6                 |
|                 | 12.                             | 14              | 15     | 17             | 16      | 32       | 3                 |
|                 | 13.                             | -               | 11     | 14             | 8       | 11       | 5                 |
|                 | 14.                             | -               | 10     | 15             | 7       | 7        | 4                 |
|                 | 15.                             | -               | 9      | 15             | 12      | 18       | 4                 |
|                 | 16.                             | -               | 11     | 13             | 7       | 9        | 4                 |
|                 | 17.                             | -               | 13     | 17             | 12      | 5        | 3                 |
|                 | 18.                             | -               | 15     | 30             | 13      | 7        | 4                 |
|                 | 19.                             | -               | 23     | 30             | 21      | 10       | 7                 |
|                 | 20.                             | -               | 28     | 34             | 24      | 28       | 14                |
|                 | 21.                             | -               | 14     | 29             | 36      | 48       | 20                |
|                 | 22.                             | -               | 6      | 14             | 17      | 30       | 11                |
|                 | 23.                             | 28              | 7      | 16             | 23      | 22       | 5                 |
|                 | 24.                             | 25              | 5      | 21             | 27      | 18       | 6                 |
|                 | 25.                             | 6               | 6      | 7              | 5       | 9        | 6                 |
|                 | 26.                             | 8               | 9      | 5              | 9       | 2        | 12                |
|                 | 27.                             | 5               | 6      | 6              | 9       | 4        | 2                 |
|                 | 28.                             | -               | 5      | 6              | 8       | 8        | 4                 |
|                 | 29.                             | -               | 9      | 7              | 13      | 10       | 2                 |
|                 | 30.                             | -               | 12     | 10             | 11      | 8        | 3                 |
|                 | 31.                             | -               | 17     | 12             | 14      | 9        | 4                 |
| Monatsstatistik | <b>Monatsmittel</b>             | -               | 11     | 15             | 13      | 13       | 6                 |
|                 | <b>Maximales Tagesmittel</b>    | -               | 28     | 34             | 36      | 48       | 20                |
|                 | <b>Median</b>                   | -               | 10     | 13             | 10      | 8        | 5                 |
|                 | <b>98-Perzentil</b>             | -               | 29     | 37             | 36      | 62       | 24                |
|                 | <b>5-jähr. Monatsmittel</b>     | 17              | 14     | 15             | 16      | 11       | 9                 |
|                 | <b>5-jähr. max. Tagesmittel</b> | 53              | 42     | 41             | 39      | 31       | 30                |



# PM<sub>10</sub> in µg/m<sup>3</sup>, bezogen auf 20 °C



■ Tagesmittel — Tagesmaxima