

# ZONNERAPPORT V.V.S. WERKGROEP ZON

Waarnemingsresultaten en nieuws voor zonnewaarnemers

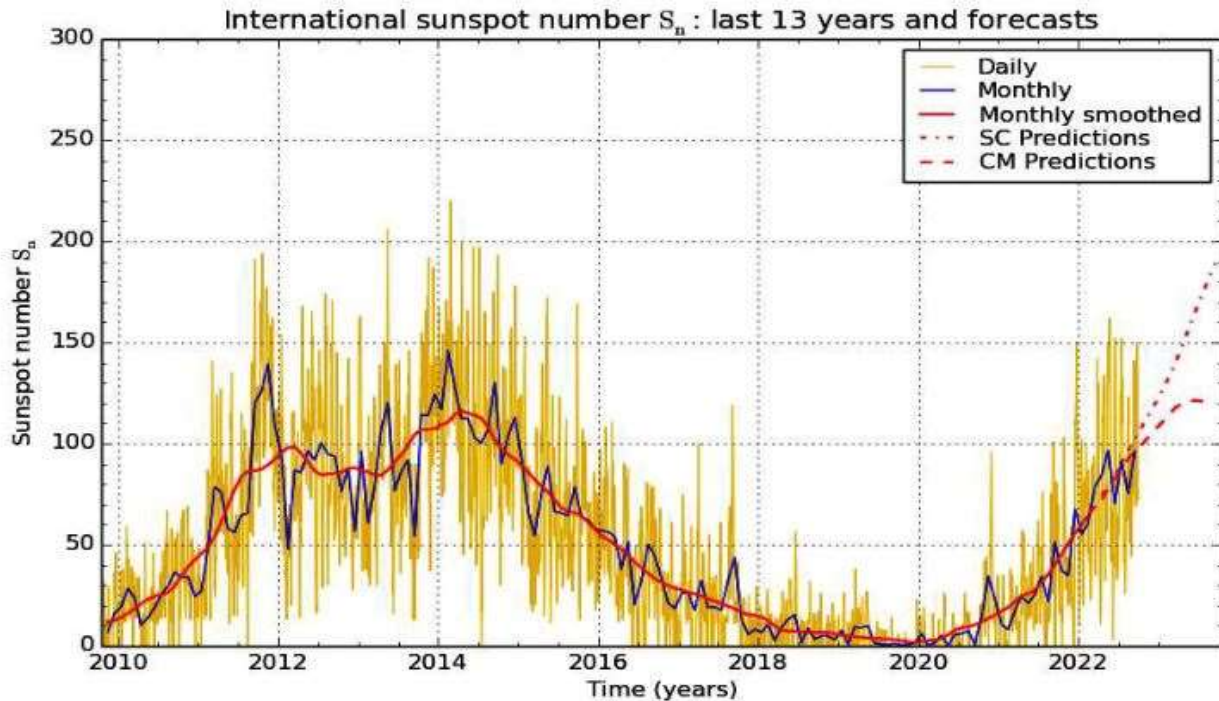
Jaargang : 27

Nummer: 316

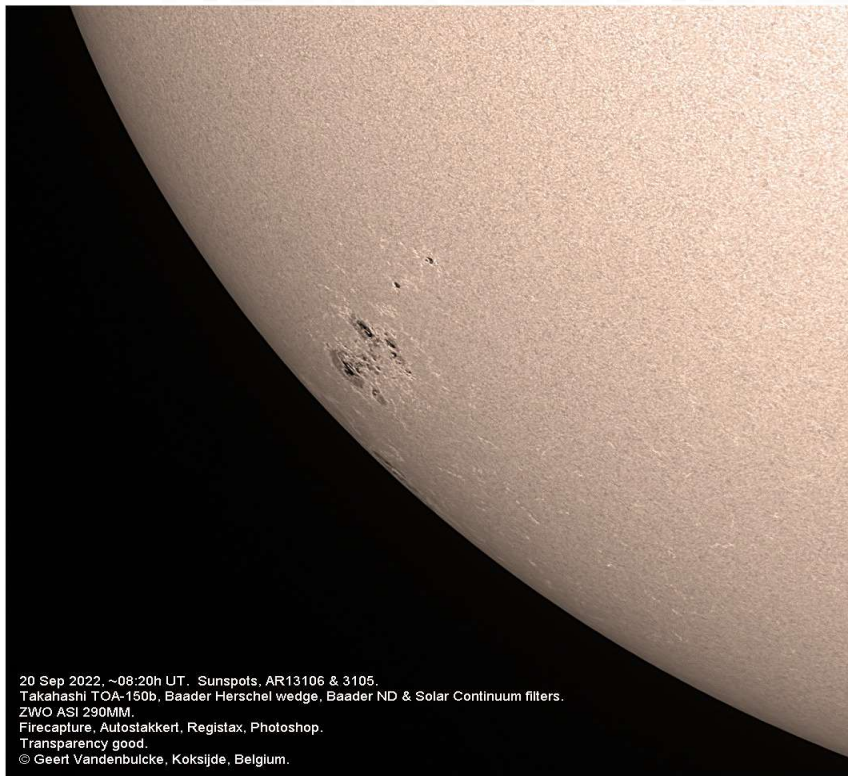
September 2022

Franky Dubois Poelkappellestraat 57 Langemark 8920

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SILSO graphics (<http://sidc.be/silso>) Royal Observatory of Belgium 2022 October 3



20 Sep 2022, ~08:20h UT. Sunspots, AR13106 & 3105.  
Takahashi TOA-150b, Baader Herschel wedge, Baader ND & Solar Continuum filters.  
ZWO ASI 290MM.  
Firecapture, Autostakker, Registax, Photoshop.  
Transparency good.  
© Geert Vandenbulcke, Koksijde, Belgium.

## Gemiddelden werkgroep zon September 2022

|                                |      |               |      |     |      |
|--------------------------------|------|---------------|------|-----|------|
| Groepen : N                    | 2,21 | Wolfgetal : N | 33   | RE' | 626  |
| S                              | 3,66 | S             | 60,7 | CV  | 71,8 |
| N+S                            | 5,86 | N+S           | 93,7 | SN  | 82,3 |
| 230 waarnemingen 15 waarnemers |      |               |      | IS  | 45,9 |

# SUNSPOTNUMBERS VVS BELGIUM

Month: **September 2022**

| Day | GROUPS      |             |             | WOLFNUMBER  |             |              |              |             |             |             |            |
|-----|-------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|-------------|-------------|------------|
|     | N           | S           | N+S         | N           | S           | N+S          | RE'          | CV          | SN          | IS          | OBS        |
| 1   | 1           | 4           | 5           | 8           | 55,1        | <b>63,5</b>  | 660          | 62          | 64          | 38,5        | 11         |
| 2   | 1           | 4           | 5           | 4           | 62,7        | <b>67,1</b>  | 613          | 59,0        | 55,0        | 34,0        | 10         |
| 3   | 1           | 3           | 4           | 10          | 51,8        | <b>61,5</b>  | 504          | 73          | 53          | 33          | 11         |
| 4   | 1           | 3           | 4           | 12          | 58,6        | <b>70,4</b>  | 624          | 77          | 73          | 36          | 11         |
| 5   | 2           | 4           | 6           | 21          | 59,5        | <b>80,8</b>  | 369          | 76          | 50          | 23          | 10         |
| 6   | 3           | 3           | 6           | 40          | 42,7        | <b>83,0</b>  | 213          | 38          | 38          | 23          | 9          |
| 7   | 4           | 3           | 7           | 55          | 41,0        | <b>95,8</b>  | 301          | 49          | 56          | 39          | 9          |
| 8   | 4           | 3           | 7           | 60          | 32,7        | <b>92,6</b>  | 319          | 53          | 51          | 38          | 9          |
| 9   | 5           | 2           | 7           | 71          | 23,8        | <b>95,0</b>  | 369          | 47          | 71          | 41          | 8          |
| 10  | 5           | 3           | 8           | 77          | 35,6        | <b>112,9</b> | 401          | 59          | 55          | 44          | 8          |
| 11  | 5           | 3           | 8           | 87          | 39,8        | <b>126,4</b> | 628          | 99          | 88          | 63          | 9          |
| 12  | 5           | 4           | 9           | 86          | 57,7        | <b>143,9</b> | 924          | 92          | 124         | 80          | 10         |
| 13  | 3           | 4           | 7           | 51,1        | 53,2        | <b>104,3</b> | 720          | 66          |             |             | 3          |
| 14  | 1           | 5           | 6           | 27,0        | 66,0        | <b>93,0</b>  | 598          | 65          |             |             | 1          |
| 15  | 2           | 5           | 7           | 37,4        | 66,3        | <b>103,7</b> | 475          | 71          | 92          | 44          | 9          |
| 16  | 1           | 5           | 6           | 16,3        | 75,7        | <b>92,0</b>  | 531          | 96          | 96          | 37          | 6          |
| 17  | 1           | 5           | 6           | 2,1         | 79,8        | <b>81,9</b>  | 519          | 65          | 68          | 45          | 8          |
| 18  | 0           | 4           | 4           | 0,0         | 69,3        | <b>69,3</b>  | 698          | 72          | 85          | 46          | 9          |
| 19  | 0           | 5           | 5           | 0,0         | 72,6        | <b>72,6</b>  | 603          | 67          | 68          | 35          | 10         |
| 20  | 0           | 5           | 5           | 0,0         | 72,1        | <b>72,1</b>  | 644          | 81          | 95          | 36          | 10         |
| 21  | 0           | 5           | 5           | 0,0         | 86,9        | <b>86,9</b>  | 677          | 106         | 99          | 51          | 9          |
| 22  | 1           | 4           | 5           | 20,3        | 87,2        | <b>107,6</b> | 717          | 100         | 102         | 65          | 10         |
| 23  |             |             |             |             |             |              |              |             |             |             |            |
| 24  | 2           | 4           | 6           | 39          | 111,5       | <b>150,5</b> |              |             |             |             | 2          |
| 25  | 3           | 3           | 6           | 46,7        | 83,6        | <b>130,3</b> | 1461         | 118,8       | 159,0       | 89          | 8          |
| 26  | 3           | 3           | 6           | 39,0        | 93,5        | <b>132,5</b> | 1635         | 70,0        | 155,0       | 88,0        | 2          |
| 27  | 3           | 3           | 6           | 38,2        | 64,5        | <b>102,7</b> | 916          | 75          | 109         | 63          | 6          |
| 28  | 2           | 3           | 5           | 34,4        | 46,6        | <b>81,0</b>  | 675          | 65,8        | 100,0       | 42,5        | 9          |
| 29  | 2           | 2           | 4           | 29,9        | 36,1        | <b>66,0</b>  | 432          | 63,3        | 69,0        | 34          | 8          |
| 30  | 3           | 2           | 5           | 43,4        | 33,6        | <b>77,0</b>  | 291          | 49          | 66          | 27          | 5          |
|     | <b>2,21</b> | <b>3,66</b> | <b>5,86</b> | <b>33,0</b> | <b>60,7</b> | <b>93,7</b>  | <b>625,6</b> | <b>71,8</b> | <b>82,3</b> | <b>45,9</b> | <b>230</b> |

Monthly mean:

**93,7**

Covering:

**29/30**

Spotless days:

**0**

Observations:

**230**

Number of observers:

**15**

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

Poekapellestraat 57

B8920 Langemark

Belgium

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Observers:

E.De Ceuninck ; J.Janssens ; J.Bourgeois ; I. Demeulenaere; R.Verboven; A.T. Son

H. De Backer; F.Dubois ; B.Taillieu ; J.Carels ; G.Verbanck; D Laurent

O.Steen ; KSB ; L.Claeys ; J.De Wit; J. Neys; H.Coeckelberghs ; D.Van Hessche

# Wolfgetallen Werkgroep Zon

Maand: September 2022

| Dag | SIDC |      |     | A.T. Son |    |      |     | J. Bourgeois |   |    |      | L. Claeys |    | H. Coeckelberghs |    |     | E. De Ceuninck |    |      |      | J. De Wit |    | H. Debacker |     |      |     | I. Demeulenaere |      |    | KSB |    |    |
|-----|------|------|-----|----------|----|------|-----|--------------|---|----|------|-----------|----|------------------|----|-----|----------------|----|------|------|-----------|----|-------------|-----|------|-----|-----------------|------|----|-----|----|----|
|     | R    | Date | Ré  | R        | Ré | Date | R   | Ré           | R | Ré | Date | R         | Ré | Date             | R  | Ré  | CV             | SN | Date | R    | Date      | R  | Ré          | CV  | Date | R   | Ré              | Date | R  | Ré  |    |    |
| 1   | 62   | 1    |     |          |    | 1    | 70  | 1018         |   |    | 1    | 51        |    | 1                | 34 | 362 |                | 1  | 85   | 774  | 81        | 36 | 1           | 62  | 1    | 55  | 566             | 67   | 1  | 64  |    |    |
| 2   | 64   | 2    |     |          |    | 2    | 47  | 735          |   |    | 2    | 75        |    | 2                |    |     |                | 2  | 73   | 681  | 69        | 42 | 2           | 73  | 2    | 79  | 427             | 68   | 2  | 59  |    |    |
| 3   | 69   | 3    |     |          |    | 3    | 62  | 860          |   |    | 3    | 78        |    | 3                | 30 | 377 |                | 3  | 48   | 474  | 89        | 49 | 3           | 72  | 3    | 62  | 357             | 66   | 3  | 71  |    |    |
| 4   | 72   | 4    |     |          |    | 4    | 84  | 1088         |   |    | 4    | 71        |    | 4                |    |     |                | 4  | 61   | 486  | 85        | 45 | 4           | 70  | 4    | 72  | 466             | 73   | 4  | 72  |    |    |
| 5   | 84   | 5    |     |          |    | 5    | 94  | 736          |   |    | 5    | 76        |    | 5                |    |     |                | 5  | 70   | 348  | 70        | 47 | 5           | 86  | 5    | 87  | 290             | 70   | 5  | 90  |    |    |
| 6   | 75   | 6    |     |          |    | 6    | 53  | 283          |   |    | 6    | 73        |    | 6                |    |     |                | 6  | ##   | 306  | 50        | 28 | 6           | 6   | 6    | 98  | 129             | 35   | 6  | 104 |    |    |
| 7   | 97   | 7    |     |          |    | 7    | 88  | 408          |   |    | 7    | 78        |    | 7                |    |     |                | 7  | ##   | 238  | 49        | 31 | 7           | 96  | 7    | 92  | 229             | 50   | 7  | 103 |    |    |
| 8   | 97   | 8    |     |          |    | 8    | 97  | 424          |   |    | 8    |           |    | 8                |    |     |                | 8  | 96   | 281  | 54        | 21 | 8           | 96  | 8    | 85  | 322             | 54   | 8  | 106 |    |    |
| 9   | 102  | 9    |     |          |    | 9    | 117 | 485          |   |    | 9    | 72        |    | 9                |    |     |                | 9  |      |      |           |    | 9           | 96  | 9    | 98  | 360             | 59   | 9  | 80  |    |    |
| 10  | 117  | 10   |     |          |    | 10   | 133 | 583          |   |    | 10   | ##        |    | 10               | ## |     |                | 10 | ##   | 359  | 67        | 27 | 10          | 10  | 10   | 110 | 383             | 68   | 10 | 109 |    |    |
| 11  | 129  | 11   |     |          |    | 11   |     |              |   |    | 11   | ##        |    | 11               | ## |     |                | 11 | ##   | 601  | 98        | 47 | 11          | 132 | 11   | 114 | 449             | 58   | 11 | 130 |    |    |
| 12  | 141  | 12   |     |          |    | 12   | 105 | 644          |   |    | 12   | ##        |    | 12               | ## |     |                | 12 | ##   | 875  | 113       | 51 | 12          | 140 | 12   | 135 | 985             | 73   | 12 | 168 |    |    |
| 13  | 117  | 13   |     |          |    | 13   |     |              |   |    | 13   |           |    | 13               |    |     |                | 13 |      |      |           |    | 13          | 111 | 13   | 110 | 774             | 57   | 13 | 12  |    |    |
| 14  | 91   | 14   |     |          |    | 14   |     |              |   |    | 14   |           |    | 14               |    |     |                | 14 |      |      |           |    | 14          |     | 14   | 93  | 598             | 65   | 14 | 14  |    |    |
| 15  | 102  | 15   |     |          |    | 15   |     |              |   |    | 15   | ##        |    | 15               |    |     |                | 15 | 99   | 455  | 87        | 70 | 15          | 89  | 15   | 107 | 570             | 68   | 15 | 130 |    |    |
| 16  | 92   | 16   |     |          |    | 16   |     |              |   |    | 16   |           |    | 16               | ## |     |                | 16 | ##   | 561  | 114       | 77 | 16          | 101 | 16   | 82  | 565             | 74   | 16 | 107 |    |    |
| 17  | 85   | 17   |     |          |    | 17   | 67  | 554          |   |    | 17   | 93        |    | 17               |    |     |                | 17 | 90   | 596  | 63        | 45 | 17          | 87  | 17   | 89  | 382             | 76   | 17 | 17  |    |    |
| 18  | 73   | 18   |     |          |    | 18   | 44  | 432          |   |    | 18   | 74        |    | 18               |    |     |                | 18 | 74   | 717  | 103       | 59 | 18          | 63  | 18   |     |                 |      | 18 | 60  |    |    |
| 19  | 71   | 19   |     |          |    | 19   | 59  | 565          |   |    | 19   | 62        |    | 19               |    |     |                | 19 | 89   | 564  | 92        | 49 | 19          | 65  | 19   | 67  | 577             | 70   | 19 | 69  |    |    |
| 20  | 69   | 20   |     |          |    | 20   | 67  | 704          |   |    | 20   | 68        |    | 20               |    |     |                | 20 | 78   | 579  | 106       | 64 | 20          | 58  | 20   | 85  | 766             | 88   | 20 | 71  |    |    |
| 21  | 83   | 21   |     |          |    | 21   | 90  | 628          |   |    | 21   | 76        |    | 21               |    |     |                | 21 | 93   | 745  | 122       | 66 | 21          | 83  | 21   | 83  | 522             | 109  | 21 | 82  |    |    |
| 22  | 106  | 22   |     |          |    | 22   | 123 | 772          |   |    | 22   |           |    | 22               | ## |     |                | 22 | ##   | 290  | 130       | 72 | 22          | 108 | 22   | 98  | 706             | 128  | 22 | 118 |    |    |
| 23  | 131  | 23   |     |          |    | 23   |     |              |   |    | 23   |           |    | 23               |    |     |                | 23 |      |      |           |    | 23          |     | 23   |     |                 |      |    | 23  | 23 |    |
| 24  | 150  | 24   |     |          |    | 24   |     |              |   |    | 24   |           |    | 24               |    |     |                | 24 |      |      |           |    | 24          | 138 | 24   |     |                 |      |    | 24  | 24 |    |
| 25  | 134  | 25   |     |          |    | 25   | 138 | 1310         |   |    | 25   | ##        |    | 25               |    |     |                | 25 |      |      |           |    | 25          | 135 | 25   | 141 | ###             | 144  | 25 | 134 |    |    |
| 26  | 134  | 26   |     |          |    | 26   | 122 | 1097         |   |    | 26   |           |    | 26               |    |     |                | 26 |      |      |           |    | 26          |     | 26   |     |                 |      | 26 | 26  |    |    |
| 27  | 109  | 27   |     |          |    | 27   | 90  | 900          |   |    | 27   |           |    | 27               |    |     |                | 27 |      |      |           |    | 27          | 109 | 27   | 99  | 859             | 109  | 27 | 112 |    |    |
| 28  | 86   | 28   |     |          |    | 28   | 95  | 645          |   |    | 28   | 95        |    | 28               |    |     |                | 28 |      |      |           |    | 28          | 85  | 28   | 72  | 610             | 96   | 28 | 75  |    |    |
| 29  | 72   | 29   |     |          |    | 29   | 62  | 460          |   |    | 29   | 72        |    | 29               |    |     |                | 29 |      |      |           |    | 29          | 72  | 29   | 67  | 415             | 92   | 29 | 57  |    |    |
| 30  | 76   | 30   |     |          |    | 30   | 65  | 249          |   |    | 30   |           |    | 30               |    |     |                | 30 |      |      |           |    | 30          | 78  | 30   | 73  | 263             | 42   | 30 | 96  |    |    |
| #   | 96,3 |      | ### | ###      |    | 85,7 | 677 |              |   |    | 86   |           |    | 32               |    |     |                | 94 | 523  | 86,4 | 49        |    | 92,2        |     |      | 91  | 553             | 75   |    | ### |    | 94 |

| Dag | SIDC |      |      | F. Dubois |      |      |      | J. Janssens |      |    | D. Laurent |      |      |      | J. Neys |    |      |      | O. Steen |     |     |      | B. Tailieu |    |     |     |     |      |      |     |       |     |     |
|-----|------|------|------|-----------|------|------|------|-------------|------|----|------------|------|------|------|---------|----|------|------|----------|-----|-----|------|------------|----|-----|-----|-----|------|------|-----|-------|-----|-----|
|     | R    | Date | Ré   | R         | Ré   | CV   | SN   | IS          | Date | R  | Ré         | CV   | Date | R    | Ré      | CV | SN   | Date | R        | Ré  | CV  | SN   | Date       | R  | Ré  | CV  | SN  | Date | R    | Ré  |       |     |     |
| 1   | 62   | 1    |      | 82        | 686  | 46   | 88   | 35          | 1    |    |            | 1    | 45   | 353  | 68      | 54 | 1    | 1    |          |     |     |      | 1          |    |     |     |     | 1    | 61   |     |       |     |     |
| 2   | 64   | 2    |      | 70        | 697  | 46   | 68   | 34          | 2    | 45 |            | 2    | 66   | 527  | 67      |    | 2    | 2    |          |     |     |      | 2          |    |     |     |     | 2    | 62   |     |       |     |     |
| 3   | 69   | 3    |      | 66        | 548  | 55   | 49   | 29          | 3    |    |            | 3    | 60   | 398  | 70      |    | 3    | 3    |          |     |     |      | 3          |    |     |     |     | 3    |      |     |       |     |     |
| 4   | 72   | 4    |      | 72        | 755  | 78   | 69   | 35          | 4    |    |            | 4    | 66   | 464  | 65      |    | 4    | 4    |          |     |     |      | 4          |    |     |     |     | 4    | 60   |     |       |     |     |
| 5   | 84   | 5    |      | 69        | 247  | 80   | 47   | 23          | 5    |    |            | 5    | 83   | 309  | 80      |    | 5    | 5    |          |     |     |      | 5          |    |     |     |     | 5    | 85   |     |       |     |     |
| 6   | 75   | 6    |      | 78        | 261  | 37   | 45   | 23          | 6    |    |            | 6    | 75   | 125  | 37      |    | 6    | 6    |          |     |     |      | 6          |    |     |     |     | 6    | 80   |     |       |     |     |
| 7   | 97   | 7    |      | 104       | 379  | 34   | 70   | 39          | 7    |    |            | 7    | 7    |      |         |    | 7    | 7    |          |     |     |      | 7          |    |     |     |     | 7    | 123  |     |       |     |     |
| 8   | 97   | 8    |      | 94        | 315  | 39   | 61   | 38          | 8    |    |            | 8    | 86   | 284  | 51      |    | 8    | 8    |          |     |     |      | 8          |    |     |     |     | 8    | 94   |     |       |     |     |
| 9   | 102  | 9    |      | 106       | 331  | 40   | 71   | 41          | 9    |    |            | 9    | 87   | 300  | 42      |    | 9    | 9    |          |     |     |      | 9          |    |     |     |     | 9    | 104  |     |       |     |     |
| 10  | 117  | 10   |      | 117       | 408  | 53   | 82   | 44          | 10   |    |            | 10   | 100  | 272  | 46      |    | 10   | 10   |          |     |     |      | 10         |    |     |     |     | 10   | 106  |     |       |     |     |
| 11  | 129  | 11   |      | 132       | 856  | 67   | 112  | 57          | 11   |    |            | 11   | 110  | 581  | 77      |    | 11   | 11   |          |     |     |      | 11         |    |     |     |     | 11   | 123  |     |       |     |     |
| 12  | 141  | 12   |      | 155       | ###  | 83   | 151  | 83          | 12   |    |            | 12   | 112  | 784  | 79      |    | 12   | 12   |          |     |     |      | 12         |    |     |     |     | 12   | 161  |     |       |     |     |
| 13  | 117  | 13   |      |           |      |      |      |             | 13   |    |            | 13   | 92   | 666  | 74      |    | 13   | 13   |          |     |     |      | 13         |    |     |     |     | 13   |      |     |       |     |     |
| 14  | 91   | 14   |      |           |      |      |      |             | 14   |    |            | 14   |      |      |         |    | 14   | 14   |          |     |     |      | 14         |    |     |     |     | 14   |      |     |       |     |     |
| 15  | 102  | 15   |      | 110       | 615  | 70   | 117  | 47          | 15   |    |            | 15   | 78   | 290  | 69      |    | 15   | 15   |          |     |     |      | 15         |    |     |     |     | 15   | 118  |     |       |     |     |
| 16  | 92   | 16   |      | 82        | 563  | 82   | 114  | 37          | 16   |    |            | 16   | 73   | 435  | 112     |    | 16   | 16   |          |     |     |      | 16         |    |     |     |     | 16   |      |     |       |     |     |
| 17  | 85   | 17   |      | 90        | 612  | 49   | 82   | 45          | 17   |    |            | 17   | 77   | 562  | 60      |    | 17   | 17   |          |     |     |      | 17         |    |     |     |     | 17   |      |     |       |     |     |
| 18  | 73   | 18   |      | 93        | 830  | 55   | 83   | 48          | 18   |    |            | 18   | 68   | 637  | 76      |    | 18   | 18   |          |     |     |      | 18         |    |     |     |     | 18   | 68   |     |       |     |     |
| 19  | 71   | 19   |      | 80        | 673  | 46   | 69   | 33          | 19   |    |            | 19   | 74   | 578  | 83      |    | 19   | 19   |          |     |     |      | 19         |    |     |     |     | 19   | 68   |     |       |     |     |
| 20  | 69   | 20   |      | 70        | 664  | 66   | 112  | 33          | 20   |    |            | 20   | 72   | 381  | 66      |    | 20   | 20   |          |     |     |      | 20         |    |     |     |     | 20   | 76   |     |       |     |     |
| 21  | 83   | 21   |      | 92        | 707  | 75   | 107  | 47          | 21   |    |            | 21   |      |      |         |    | 21   | 21   |          |     |     |      | 21         |    |     |     |     | 21   | 83   |     |       |     |     |
| 22  | 106  | 22   |      | 107       | 860  | 69   | 92   | 62          | 22   | 90 |            | 22   | 87   | 556  | 85      |    | 22   | 22   |          |     |     |      | 22         |    |     |     |     | 22   | 97   |     |       |     |     |
| 23  | 131  | 23   |      |           |      |      |      |             | 23   |    |            | 23   |      |      |         |    | 23   | 23   |          |     |     |      | 23         |    |     |     |     | 23   |      |     |       |     |     |
| 24  | 150  | 24   |      |           |      |      |      |             | 24   |    |            | 24   |      |      |         |    | 24   | 24   |          |     |     |      | 24         |    |     |     |     | 24   | 163  |     |       |     |     |
| 25  | 134  | 25   |      | 153       | ###  | 102  | 185  | 89          | 25   |    |            | 25   | 113  | ###  | 98      |    | 25   | 25   |          |     |     |      | 25         |    |     |     |     | 25   |      |     |       |     |     |
| 26  | 134  | 26   |      | 143       | ###  | 70   | 155  | 88          | 26   |    |            | 26   |      |      |         |    | 26   | 26   |          |     |     |      | 26         |    |     |     |     | 26   |      |     |       |     |     |
| 27  | 109  | 27   |      | 118       | ###  | 53   | 109  | 63          | 27   |    |            | 27   | 88   | 652  | 62      |    | 27   | 27   |          |     |     |      | 27         |    |     |     |     | 27   |      |     |       |     |     |
| 28  | 86   | 28   |      | 80        | 799  | 70   | 101  | 44          | 28   | 46 |            | 28   | 68   | 561  | 57      |    | 28   | 28   |          |     |     |      | 28         |    |     |     |     | 28   |      |     |       |     |     |
| 29  | 72   | 29   |      | 79        | 541  | 52   | 72   | 34          | 29   |    |            | 29   | 63   | 429  | 46      |    | 29   | 29   |          |     |     |      | 29         |    |     |     |     | 29   |      |     |       |     |     |
| 30  | 76   | 30   |      | 73        | 362  | 55   | 66   | 27          | 30   |    |            | 30   |      |      |         |    | 30   | 30   |          |     |     |      | 30         |    |     |     |     | 30   |      |     |       |     |     |
| #   | 96,3 |      | 96,7 | 744       | 60,5 | 91,4 | 45,3 |             | 60,3 |    |            | 81,7 | ###  | 68,3 | ###     |    | 68,7 | ###  | ###      | ### | ### | 67,6 |            | ## | ### | ### | ### | ###  | 96,2 | ### | ##### | ### | ### |

| Dag | SIDC |        |  | R. Verboven |  |  |  | G. Verbanck |  |  |  | J. Carels |  |  |  |
|-----|------|--------|--|-------------|--|--|--|-------------|--|--|--|-----------|--|--|--|
|     | R    | Date</ |  |             |  |  |  |             |  |  |  |           |  |  |  |