

# Newsletter Belgian Solar Observers

Results and news for solar observers

Volume 10

Number 118

December 2005

Franky Dubois Poelkappellestraat 39 langemark 8920

Web site: <http://www.digilife.be/club/Franky.Dubois/werkgroep.htm> e-mail [astrosun@skynet.be](mailto:astrosun@skynet.be)

## Content Newsletter

Graphics and relative number for this month

Daily Wolfnumbers by the members

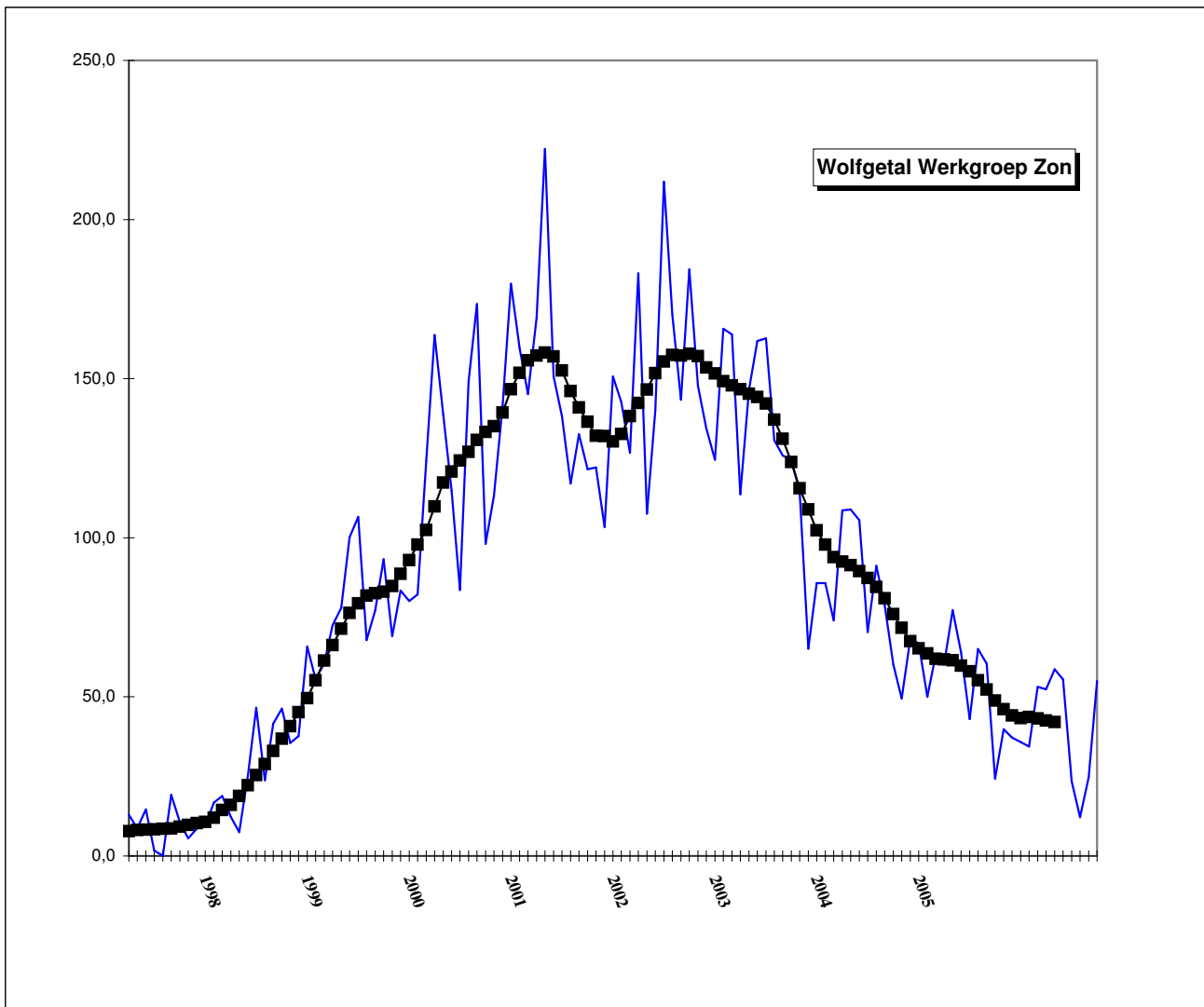
Monthly sunspot report

Polar faculae and CV numbers

Prominence numbers by the members

Monthly prominence report

Photo album and drawings



### Mean of december observations

|                  |              |      |          |     |      |           |       |
|------------------|--------------|------|----------|-----|------|-----------|-------|
| Groups :         | N            | 1,93 | Wolfnumb | N   | 25,5 | Beck :    | 335,2 |
|                  | S            | 2,21 |          | S   | 29,5 | <u>CV</u> | 56,2  |
|                  | N+S          | 4,14 |          | N+S | 55   |           |       |
| 180 observations | 21 observers |      |          |     |      |           |       |



# Sunspotnumbers VVS Belgium

Month: **December 2005**

| Day | GROUPS      |             |             | WOLFNUMBER  |             |             | RE'          | CV          | OBS        |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-------------|------------|
|     | N           | S           | N+S         | N           | S           | N+S         |              |             |            |
| 1   | 1           | 3           | 4           | 12,4        | 50          | 62,4        | 470          | 55          | 12         |
| 2   | 2           | 2           | 4           | 27          | 42          | 69          | 427          | 67          | 2          |
| 3   | 2           | 3           | 5           | 26          | 62          | 88          | 979          | 69          | 6          |
| 4   | 2           | 2           | 4           | 15,7        | 39,3        | 55          | 399          | 76          | 4          |
| 5   | 1           | 3           | 4           | 10,8        | 62,5        | 73,3        | 535          | 62          | 3          |
| 6   | 1           | 3           | 4           | 11          | 50,4        | 61,4        | 390          | 45          | 3          |
| 7   | 1           | 2           | 3           | 10,7        | 22,1        | 32,8        | 89           | 23          | 5          |
| 8   | 1           | 2           | 3           | 11,1        | 23,5        | 34,6        | 123          | 19          | 9          |
| 9   | 1           | 2           | 3           | 18,1        | 16,1        | 34,2        | 106          | 27          | 10         |
| 10  | 2           | 2           | 4           | 28,4        | 17          | 45,4        | 202          | 44          | 12         |
| 11  | 2           | 2           | 4           | 30,3        | 23,3        | 53,6        | 341          | 61          | 12         |
| 12  | 2           | 2           | 4           | 31,5        | 17,5        | 49          | 348          | 61          | 2          |
| 13  | 2           | 2           | 4           | 31,7        | 21,8        | 53,5        |              |             | 4          |
| 14  | 1           | 2           | 3           | 21,9        | 26,7        | 48,6        | 421          | 63          | 9          |
| 15  | 1           | 2           | 3           | 14          | 28          | 42          |              |             | 1          |
| 16  |             |             |             |             |             |             |              |             |            |
| 17  | 1           | 2           | 3           | 14,7        | 21,4        | 36,1        | 169          | 55          | 10         |
| 18  | 1           | 2           | 3           | 13,3        | 26,7        | 40          | 775          | 41          | 13         |
| 19  | 1           | 3           | 4           | 14,3        | 37,3        | 51,6        | 446          | 76          | 6          |
| 20  | 1           | 2           | 3           | 11          | 33          | 44          | 297          | 96          | 1          |
| 21  | 3           | 2           | 5           | 41          | 27          | 68          |              |             | 1          |
| 22  |             |             |             |             |             |             |              |             |            |
| 23  |             |             |             |             |             |             |              |             |            |
| 24  | 3           | 3           | 6           | 42,9        | 25,7        | 68,6        | 448          | 89          | 5          |
| 25  | 2           | 2           | 4           | 31,7        | 21,1        | 52,8        | 233          | 57          | 14         |
| 26  | 4           | 2           | 6           | 48          | 23,2        | 71,2        | 266          | 61          | 11         |
| 27  | 4           | 2           | 6           | 49,6        | 25          | 74,6        | 221          | 59          | 5          |
| 28  | 3           | 2           | 5           | 40,5        | 15          | 55,5        | 130          | 42          | 6          |
| 29  | 3           | 2           | 5           | 41,6        | 26,5        | 68,1        | 281          | 62          | 7          |
| 30  | 3           | 2           | 5           | 32,8        | 19,2        | 52          | 161          |             | 3          |
| 31  | 3           | 2           | 5           | 31,4        | 22,6        | 54          | 124          | 38          | 4          |
|     | <b>1,93</b> | <b>2,21</b> | <b>4,14</b> | <b>25,5</b> | <b>29,5</b> | <b>55,0</b> | <b>335,2</b> | <b>56,2</b> | <b>180</b> |

Monthly mean: **55** Covering: **28/31** Spotless days: **0**  
 Observations: **180** Number of observers: **21**

**V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS**

Poekapellestraat 39  
 B8920 Langemark  
 Belgium  
 e-mail : Franky.Dubois@digilife.be

**Observers:**

**Devriese ; De Ceuninck ; Janssens ; Publ obs Mira ; Bourgeois  
 De Backer; Dubois ; Gysel ; Kleber ; Deman ; Taillieu  
 Meeus ; Steen ; KSB ; Gabriel ; Claeys ; Devriese  
 Claes ; Verboven ; Van Loo ; Son ; Coeckelberghs**

### Cv numbers for December 2005

| Cv numbers for December 2005 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Mean |      |
|------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|
| Date                         | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   |      |
| O. Steen                     | 51 | 67 | 82 | 76 | 72 | 46 | 22 | 19 | 23 | 41 | 54 | 62 |    | 60 |    |    | 52 | 26 | 76 |    |    |    |    | 92 | 72 | 60 | 61 | 43 | 58 |    |      | 55,2 |
| L.Meeus                      |    |    |    |    |    |    |    |    |    |    | 45 |    |    |    |    |    |    |    |    |    |    |    |    |    | 65 |    |    |    |    |    |      | 55,0 |
| F.Dubois                     | 58 |    | 56 |    | 51 | 43 | 23 |    | 30 |    | 84 | 60 |    | 66 |    |    | 58 | 55 | 75 | 96 |    |    |    | 85 | 64 | 58 | 56 | 40 | 66 |    | 57   | 59,1 |
| J.Janssen                    |    |    |    |    |    |    |    |    |    | 47 |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 34 |    |    |    |    |    |      | 40,5 |
| J.Claes                      | 77 |    | 78 |    |    |    |    |    | 22 |    |    |    |    | 32 |    |    | 37 | 50 |    |    |    |    |    |    | 21 | 55 |    |    | 49 | 45 | 46,6 |      |

### Belgian Solar Observers

| Polar Faculae |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   | Month: December 2005 |  |  |  |  |  |
|---------------|-----------|-------|---|-----------|-------|-----|-----------|-------|---|---------|-------|---|--------|-------|---|-----------|-------|---|----------------------|--|--|--|--|--|
| Date          | Dubois    |       |   | Steen     |       |     | Deman     |       |   | Gabriel |       |   | Carels |       |   | Janssen   |       |   |                      |  |  |  |  |  |
|               | 125mm F20 |       |   | 102mm F15 |       |     | 150mm F15 |       |   |         |       |   |        |       |   | 200mm F10 |       |   |                      |  |  |  |  |  |
|               | North     | South | Q | North     | South | Q   | North     | South | Q | North   | South | Q | North  | South | Q | North     | South | Q |                      |  |  |  |  |  |
| 1             |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 2             |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 3             |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 4             |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 5             |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 6             |           |       |   | 5         | 1     | 3,5 | 5         | 11    |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 7             | 7         | 4     | 3 |           |       |     | 16        | 16    |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 8             |           |       |   | 3         | 2     | 3,5 |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 9             |           |       |   | 3         | 2     | 3   |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 10            |           |       |   | 5         | 4     | 3   |           |       |   |         |       |   |        |       |   | 8         | 4     | 3 |                      |  |  |  |  |  |
| 11            | 5         | 4     | 3 | 3         | 4     | 4   |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 12            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 13            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 14            |           |       |   | 2         | 1     | 3   |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 15            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 16            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 17            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 18            | 5         | 7     | 2 | 2         | 2     | 3   | 15        | 20    |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 19            |           |       |   | 2         | 3     | 3,5 |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 20            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 21            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 22            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 23            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 24            |           |       |   | 4         | 5     | 3,5 |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 25            |           |       |   | 4         | 4     | 3,5 | 6         | 15    |   |         |       |   |        |       |   | 4         | 7     | 3 |                      |  |  |  |  |  |
| 26            |           |       |   | 3         | 4     | 3   |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 27            | 6         | 4     | 3 | 2         | 1     | 4   |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 28            |           |       |   | 2         | 4     | 3,5 |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 29            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 30            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
| 31            |           |       |   |           |       |     |           |       |   |         |       |   |        |       |   |           |       |   |                      |  |  |  |  |  |
|               | 5,75      | 4,75  |   | 3,08      | 2,85  |     | 10,50     | 15,50 |   | #####   | ##### |   | #####  | ##### |   | 6,00      | 5,50  |   |                      |  |  |  |  |  |

## VVS Belgian Solar Observers Prominence number Rp

Month : December 2005

| Day | J. Janssens |       |     |    |    |     | F. Dubois |     |     |     |      |       | E. De Ceunick |       |      |      |    |     | L. Meeus |   |      |       |     |    |
|-----|-------------|-------|-----|----|----|-----|-----------|-----|-----|-----|------|-------|---------------|-------|------|------|----|-----|----------|---|------|-------|-----|----|
|     | time        | Q     | W   | H  | e  | Rp  | time      | Q   | W   | H   | e    | Rp    | tim           | Q     | W    | H    | e  | Rp  | time     | Q | W    | H     | e   | Rp |
| 1   |             |       |     |    |    |     | 12,40     | 3   | 3   | 5   | 6    | 56    |               |       |      |      |    |     |          |   |      |       |     |    |
| 2   |             |       |     |    |    |     |           |     |     |     |      |       | 14,15         | 2     | 2,5  | 7    | 13 | 83  |          |   |      |       |     |    |
| 3   |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 4   |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 5   |             |       |     |    |    |     |           |     |     |     |      |       | 9,30          | 1     | 2,5  | 7    | 10 | 80  |          |   |      |       |     |    |
| 6   |             |       |     |    |    |     | 9,55      | 3   | 2,5 | 4   | 10   | 50    | 10,30         | 2     | 2,5  | 6    | 11 | 71  |          |   |      |       |     |    |
| 7   |             |       |     |    |    |     |           |     |     |     |      |       | 14,45         | 1     | 2,5  | 8    | 14 | 94  |          |   |      |       |     |    |
| 8   |             |       |     |    |    |     |           |     |     |     |      |       | 12,30         | 2     | 2,5  | 6    | 8  | 68  |          |   |      |       |     |    |
| 9   |             |       |     |    |    |     | 9,51      | 3   | 2,5 | 4   | 6    | 46    | 10,30         | 2     | 2,5  | 6    | 8  | 68  |          |   |      |       |     |    |
| 10  | 9,00        | 3     | 2   | 6  | 8  | 68  |           |     |     |     |      |       | 10,50         | 2     | 3    | 7    | 15 | 85  |          |   |      |       |     |    |
| 11  |             |       |     |    |    |     | 10,28     | 3   | 2   | 10  | 19   | 119   | 10,15         | 1     | 3    | 11   | 15 | 125 | 3        | 3 | 8    | 22    | 102 |    |
| 12  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 13  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 14  |             |       |     |    |    |     | 10,38     | 2   | 2   | 6   | 9    | 69    | 10,30         | 2     | 2,5  | 6    | 9  | 69  |          |   |      |       |     |    |
| 15  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 16  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 17  | 9,00        | 2     | 2,5 | 6  | 10 | 70  | 10,10     | 2   | 2,5 | 5   | 8    | 58    | 10,00         | 1     | 3    | 6    | 13 | 73  |          |   |      |       |     |    |
| 18  |             |       |     |    |    |     | 9,52      | 3   | 3   | 5   | 7    | 57    | 11,25         | 3     | 2    | 9    | 11 | 101 |          |   |      |       |     |    |
| 19  |             |       |     |    |    |     |           |     |     |     |      |       | 11,30         | 1     | 3    | 5    | 6  | 56  |          |   |      |       |     |    |
| 20  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 21  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 22  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 23  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 24  |             |       |     |    |    |     | 10,53     | 3   | 2   | 6   | 6    | 66    | 11,00         | 3     | 2,5  | 6    | 17 | 77  |          |   |      |       |     |    |
| 25  | 10,20       | 3     | 2,5 | 9  | 15 | 105 |           |     |     |     |      |       | 10,00         | 2     | 2,5  | 6    | 13 | 73  |          |   |      |       |     |    |
| 26  |             |       |     |    |    |     | 13,28     | 3   | 3   | 7   | 10   | 80    | 10,45         | 2     | 2,5  | 7    | 15 | 85  |          |   |      |       |     |    |
| 27  |             |       |     |    |    |     | 10,22     | 3   | 3   | 6   | 8    | 68    | 10,00         | 2     | 2    | 7    | 12 | 82  |          |   |      |       |     |    |
| 28  |             |       |     |    |    |     |           |     |     |     |      |       | 13,18         | 2     | 2,5  | 6    | 9  | 69  |          |   |      |       |     |    |
| 29  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 30  |             |       |     |    |    |     |           |     |     |     |      |       |               |       |      |      |    |     |          |   |      |       |     |    |
| 31  |             |       |     |    |    |     |           |     |     |     |      |       | 15,15         | 1     | 3    | 6    | 12 | 72  |          |   |      |       |     |    |
| 3   | 2,667       | 2,333 | 7   | 11 | 81 | 10  | 2,8       | 2,6 | 5,8 | 8,9 | 66,9 | 1,778 | 2,583         | 6,778 | 11,7 | 79,5 | 1  | 3,0 | 3,0      | 8 | 22,0 | 102,0 |     |    |

| Day | O. Steen |       |       |       |       |     | H. Coekelberghs |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
|-----|----------|-------|-------|-------|-------|-----|-----------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
|     | time     | Q     | W     | H     | e     | Rp  | time            | Q   | W     | H     | e     | Rp    | tim   | Q     | W     | H     | e     | Rp    | time  | Q     | W     | H     | e     | Rp |
| 1   |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 2   |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 3   | 13,25    | 3     | 2,5   | 6     | 9     | 69  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 4   |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 5   |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 6   |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 7   | 9,45     | 3     | 2,5   | 7     | 12    | 82  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 8   | 14,20    | 3     | 2,5   | 5     | 8     | 58  | 4               | 3   | 2     | 4     | 24    |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 9   | 13,45    | 3     | 2,5   | 6     | 10    | 70  | 4               | 3   | 6     | 9     | 69    |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 10  | 11,10    | 3     | 2,5   | 8     | 15    | 95  | 3               | 3   | 2     | 2     | 22    |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 11  | 9,15     | 3,5   | 2,5   | 10    | 24    | 124 | 3               | 3   | 6     | 12    | 72    |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 12  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 13  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 14  | 9,15     | 3     | 2,5   | 6     | 9     | 69  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 15  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 16  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 17  | 9,30     | 2,5   | 2,5   | 6     | 10    | 70  | 3               | 3   | 5     | 7     | 57    |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 18  | 10,00    | 3     | 2,5   | 6     | 11    | 71  | 2               | 3   | 2     | 3     | 23    |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 19  | 14,10    | 3,5   | 2,5   | 6     | 8     | 68  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 20  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 21  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 22  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 23  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 24  | 10,55    | 3,5   | 2     | 6     | 13    | 73  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 25  | 12,55    | 3,5   | 2     | 8     | 17    | 97  | 3               | 3   | 3     | 3     | 33    |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 26  | 12,45    | 3,5   | 2     | 6     | 15    | 75  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 27  | 9,15     | 3     | 2,5   | 7     | 12    | 82  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 28  | 13,30    | 3,5   | 2,5   | 7     | 10    | 80  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 29  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 30  |          |       |       |       |       |     |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 31  | 10,25    | 3     | 3     | 6     | 10    | 70  |                 |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| 16  | 3,156    | 2,438 | 6,625 | 12,06 | 78,31 | 7   | 3,1             | 3,0 | 3,714 | 5,714 | 42,86 | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### | ##### |    |

**Time** : Beginning of observation

**Q** : Seeing scale SIDC

**W** : transparency scale of Wedel , see <http://members.chello.be/j.janssens/>

**H** : number of prominence groups at the limb

**e** : total of individual prominences at the limb

**Rp** : H\*10+e

More info at : <http://members.chello.be/j.janssens/>

# Prominence number Rp

## Belgian solar observers

Month: December 2005

| Day | GROUPS      |             | WOLFNUMBER |             |             |           | OBS |
|-----|-------------|-------------|------------|-------------|-------------|-----------|-----|
|     | Q           | Wedel       | H          | e           | Rp          |           |     |
| 1   | 3           | 3           | 5          | 6           | 56          | 1         |     |
| 2   | 2           | 2,5         | 7          | 13          | 83          | 1         |     |
| 3   | 3           | 2,5         | 6          | 9           | 69          | 1         |     |
| 4   |             |             |            |             |             |           |     |
| 5   | 1           | 2,5         | 7          | 10          | 80          | 1         |     |
| 6   | 2,5         | 2,5         | 5          | 10,5        | 60,5        | 2         |     |
| 7   | 2           | 2,5         | 7,5        | 13          | 88          | 2         |     |
| 8   | 3           | 3           | 4,3        | 6,7         | 49,7        | 3         |     |
| 9   | 3           | 2,6         | 5,5        | 8,3         | 63,3        | 4         |     |
| 10  | 2,8         | 2,6         | 5,8        | 10          | 67,5        | 4         |     |
| 11  | 2,7         | 2,7         | 9          | 18,4        | 108,4       | 5         |     |
| 12  |             |             |            |             |             |           |     |
| 13  |             |             |            |             |             |           |     |
| 14  | 2,3         | 2,3         | 6          | 9           | 69          | 3         |     |
| 15  |             |             |            |             |             |           |     |
| 16  |             |             |            |             |             |           |     |
| 17  | 2,1         | 2,7         | 5,6        | 9,6         | 65,6        | 5         |     |
| 18  | 2,8         | 2,6         | 5,5        | 8           | 63          | 4         |     |
| 19  | 2,3         | 2,8         | 5,5        | 7           | 62          | 2         |     |
| 20  |             |             |            |             |             |           |     |
| 21  |             |             |            |             |             |           |     |
| 22  |             |             |            |             |             |           |     |
| 23  |             |             |            |             |             |           |     |
| 24  | 3,2         | 2,2         | 6          | 12          | 72          | 3         |     |
| 25  | 2,9         | 2,5         | 6,5        | 12          | 77          | 4         |     |
| 26  | 2,8         | 2,5         | 6,7        | 13,3        | 80,3        | 3         |     |
| 27  | 2,7         | 2,5         | 6,7        | 10,7        | 77,7        | 3         |     |
| 28  | 2,8         | 2,5         | 6,5        | 9,5         | 74,5        | 2         |     |
| 29  |             |             |            |             |             |           |     |
| 30  |             |             |            |             |             |           |     |
| 31  | 3           | 3           | 6          | 10          | 70          | 1         |     |
|     | <b>2,60</b> | <b>2,60</b> | <b>6,2</b> | <b>10,3</b> | <b>71,8</b> | <b>54</b> |     |

Monthly mean: **71,8**    Covering: **20/31**  
 Observations: **54**    Number of observers: **6**

**V.V.S. BELGIUM SOLAR SECTION    FRANKY DUBOIS**

Poekapellestraat 39  
 B8920 Langemark  
 Belgium  
 e-mail : astrosun@skynet.be

**Observers:**

Steen ; Dubois ; Meeus ; De Ceuninck ; Coeckelberghs ; Janssens

Q : Seeing scale SIDC

W : transparency scale of Wedel , see <http://members.chello.be/j.janssens/>

H : number of prominence groups at the limb

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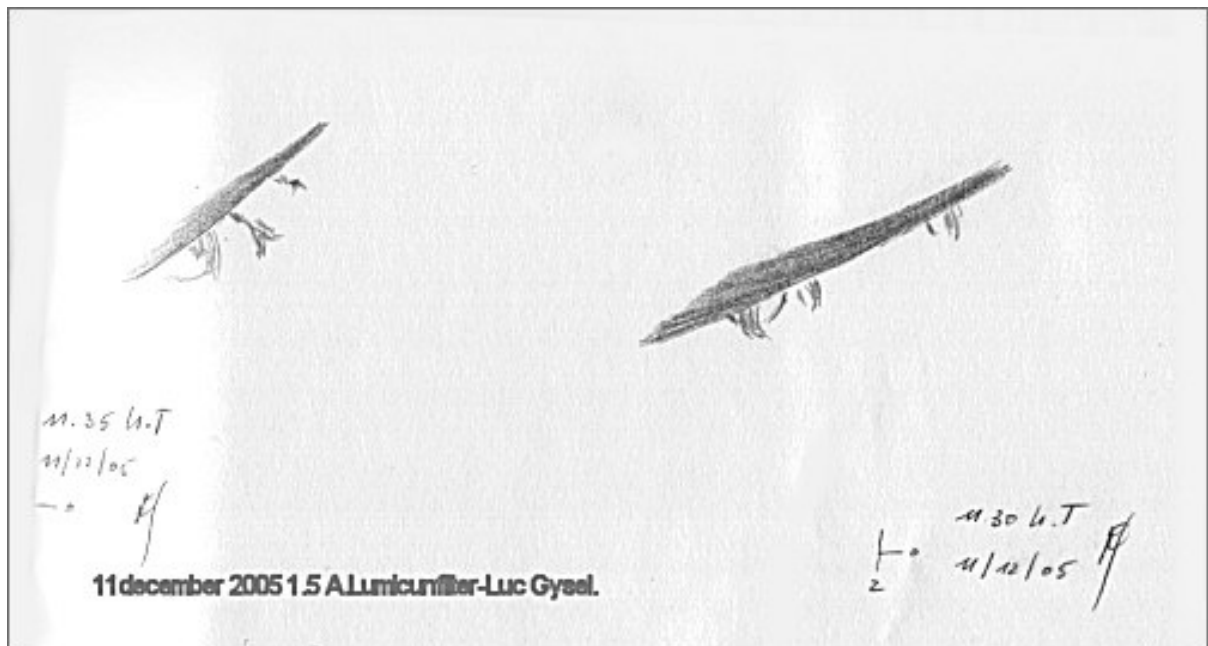
Rp :  $H \cdot 10 + e$

More info at : <http://members.chello.be/j.janssens/>



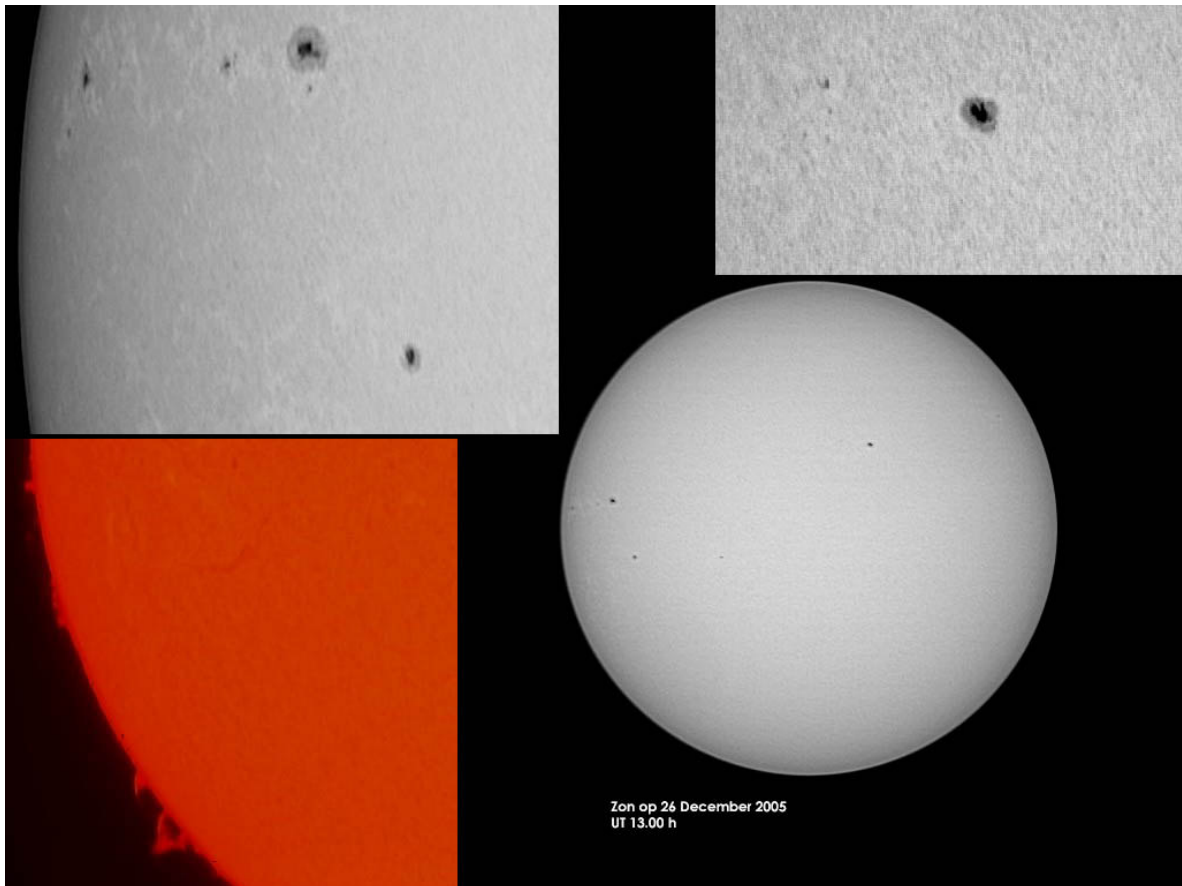
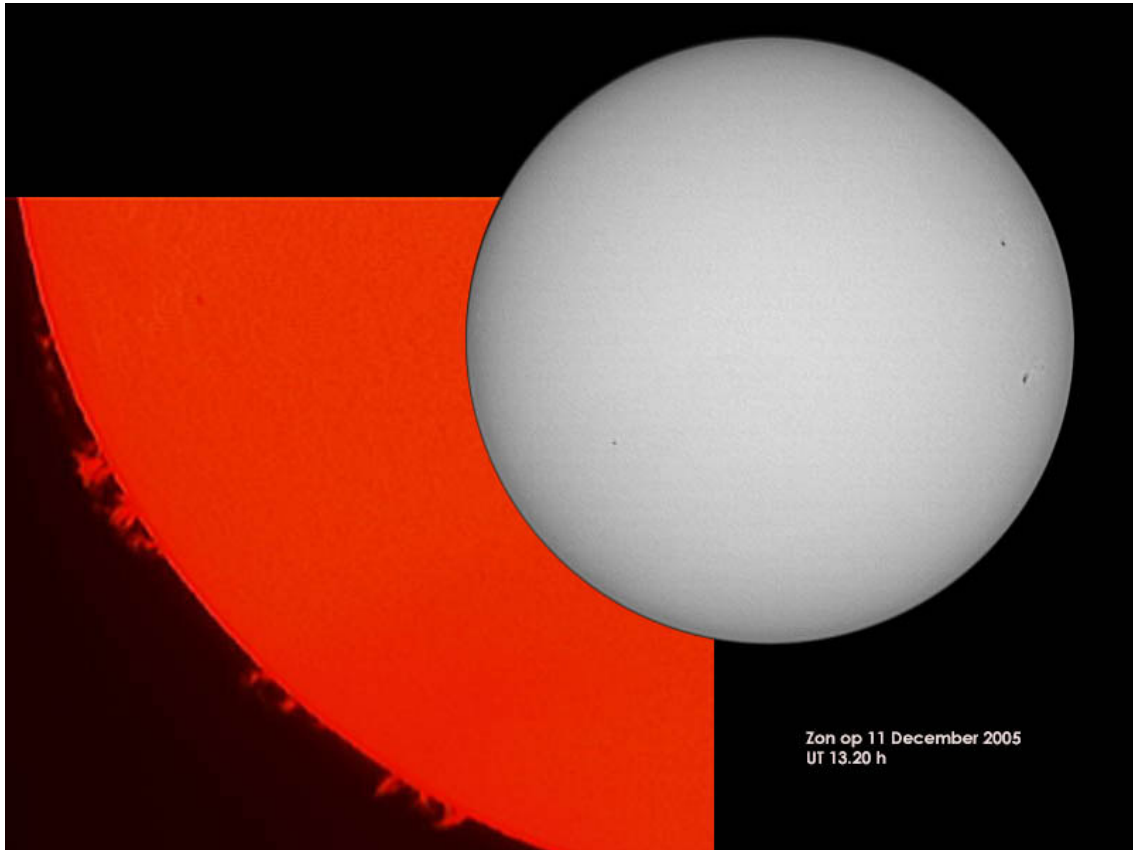
**Home made observatory dome and refractor for solar observations  
Edwin De Ceuninck Jonkershove Belgium**





Pictures by Rik Blondeel Grimbergen Belgium





**Pictures by Rik Blondeel Grimbergen Belgium**