

NIEUWSBRIEF V.V.S. WERKGROEP ZON

Waarnemingsresultaten en nieuws voor zonnewaarnemers

Jaargang : 22

Nummer: 256

Juni 2017

Franky Dubois Poelkappellestraat 57 Langemark 8920

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Gezamenlijk zonne-bijeenkomst 7 oktober 2017 !

Onder impuls van onze Nederlandse vrienden komen we nog eens samen op zaterdag 7 oktober 2017, de bijeenkomst gaat door in de gebouwen van de Koninglijke sterrenwacht van België in Ukkel.

Hierbij het voorlopige programma.

09.45 – 10.30: inloop met koffie, thee en een koekje

10.30 – 10.45: opening door Franky, Jan en Ton.

10.45 – 11.50: rondleiding langs de zonnetelescopen door Frédéric Clette (hoofd van SILSO), in het Engels.

11.50 – 12.00: lezing over Belgische werkgroep zon door Franky

12.10 – 12.30: Eclipsavonturen in de VS (Ruben)

12.30 – 13.30: lunchpauze en groepsfoto

13.40 – 14.40: lezing door KSB, Lezing toegezegd door Frédéric Clette over zonnewaarnemingen en het zonnevlekkengetal.

14.45 – 15.00: waarneembespreking KNVWS werkgroep zon door Nico en Ton.

15.00 – 15.20: korte pauze

15.20 – 15.40: SID- waarnemingen door Theo Dukers

15.40 – 16.00: 21 jaar poolfakkelwaarnemingen, Franky

16.00 – 16.20: radiowaarnemingen door Nico Heijblok

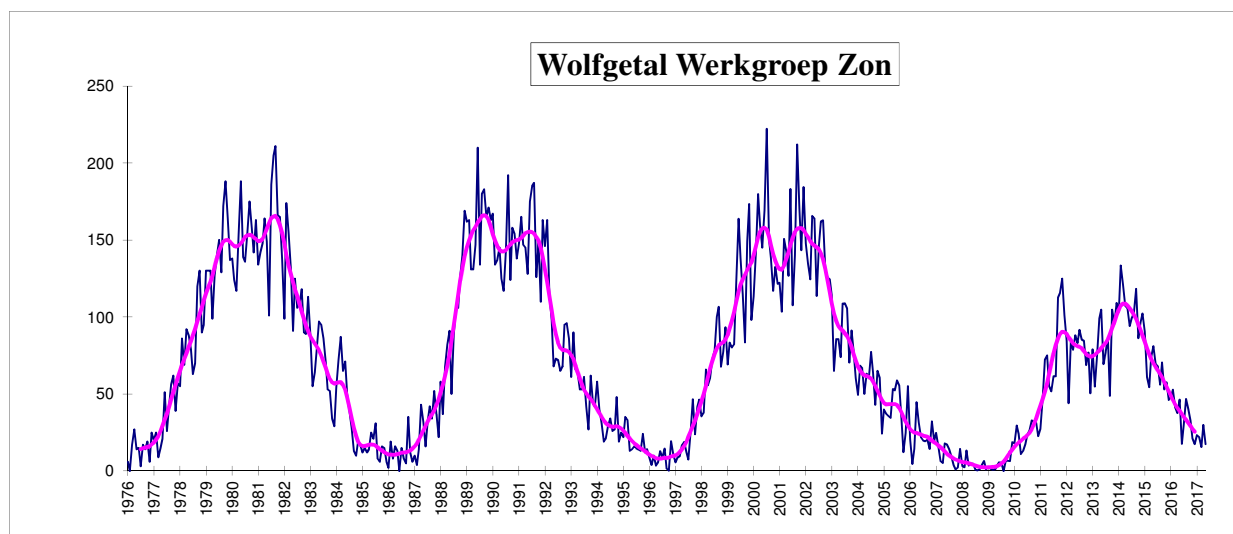
16.20 – 16.40: Een zonnecyclus H-alfa waarnemingen (Jan)

16.40 – 17.00: magnetometermetingen door Nico en Ton.

17.00 – 17.15: afsluiting door Jan, Franky en Ton.

Hou alvast deze datum vrij !

Opgepast: het programma kan eventueel nog lichtjes aangepast worden.



Gemiddelden werkgroep zon Juni 2017

| | | | | | |
|-------------|------|---------------|------|-----|------|
| Groepen : N | 1,33 | Wolfgetal : N | 19,6 | RE' | 117 |
| S | 0,00 | S | 0 | CV | 16,4 |
| N+S | 1,33 | N+S | 19,6 | SN | 19,4 |
| | | | | IS | 7,5 |

427 waarnemingen 22 waarnemers

Sunspotnumbers VVS Belgium

Month: June 2017

| Day | GROUPS | | | WOLFNUMBER | | | RE' | CV | SN | IS | OBS |
|-----|-------------|-------------|-------------|-------------|------------|-------------|--------------|-------------|-------------|------------|------------|
| | N | S | N+S | N | S | N+S | | | | | |
| 1 | 1 | 0 | 1 | 14,7 | 0 | 14,7 | 57 | 19 | 19 | 5,5 | 18 |
| 2 | 1 | 0 | 1 | 24,4 | 0 | 24,4 | 254 | 25,0 | 34,3 | 16,5 | 17 |
| 3 | 1 | 0 | 1 | 23,0 | 0 | 23,0 | 253 | 22,0 | 29,7 | 13,5 | 11 |
| 4 | 1 | 0 | 1 | 27,4 | 0 | 27,4 | 370 | 30 | 31 | 17 | 17 |
| 5 | 2 | 0 | 2 | 34,8 | 0 | 34,8 | 291 | 26 | 32 | 20 | 17 |
| 6 | 1 | 0 | 1 | 25,7 | 0 | 25,7 | 195 | 14 | 22 | 17 | 11 |
| 7 | 2 | 0 | 2 | 17,8 | 0 | 17,8 | 92 | 7 | 12 | 7 | 12 |
| 8 | 1 | 0 | 1 | 12,1 | 0 | 12,1 | 13 | 1 | 4 | 7 | 14 |
| 9 | 0 | 0 | 0 | 0,0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 10 | 0 | 0 | 0 | 0,0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| 11 | 0 | 0 | 0 | 0,0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 12 | 1 | 0 | 1 | 3,7 | 0 | 3,7 | 3 | 1 | 1 | 1 | 9 |
| 13 | 1 | 0 | 1 | 11,2 | 0 | 11,2 | 38 | 9 | 10 | 1 | 17 |
| 14 | 1 | 0 | 1 | 12,7 | 0 | 12,7 | 43 | 9 | 11 | 3 | 20 |
| 15 | 2 | 0 | 2 | 32,4 | 0 | 32,4 | 182 | 26 | 33 | 14 | 20 |
| 16 | 2 | 0 | 2 | 30,5 | 0 | 30,5 | 210 | 32 | 35 | 11 | 14 |
| 17 | 2 | 0 | 2 | 32,4 | 0 | 32,4 | 231 | 35 | 35 | 10 | 14 |
| 18 | 2 | 0 | 2 | 29,6 | 0 | 29,6 | 182 | 32 | 34 | 10 | 17 |
| 19 | 2 | 0 | 2 | 27,2 | 0 | 27,2 | 117 | 23 | 26 | 7 | 19 |
| 20 | 2 | 0 | 2 | 30,3 | 0 | 30,3 | 156 | 22 | 24 | 4 | 17 |
| 21 | 3 | 0 | 3 | 34,9 | 0 | 34,9 | 190 | 24,7 | 39,0 | 6,0 | 18 |
| 22 | 2 | 0 | 2 | 23,6 | 0 | 23,6 | 123 | 17,6 | 20,8 | 4,0 | 14 |
| 23 | 2 | 0 | 2 | 20,7 | 0 | 20,7 | 63 | 12,3 | 12,3 | 3,0 | 16 |
| 24 | 2 | 0 | 2 | 20,0 | 0 | 20,0 | 36 | | | | 2 |
| 25 | 1 | 0 | 1 | 19,0 | 0 | 19,0 | 74 | 16,0 | 19,5 | 8,0 | 12 |
| 26 | 1 | 0 | 1 | 20,1 | 0 | 20,1 | 100 | 16,7 | 19,3 | 11,5 | 15 |
| 27 | 1 | 0 | 1 | 20,1 | 0 | 20,1 | 144 | 24,0 | 27,7 | 10,5 | 8 |
| 28 | 1 | 0 | 1 | 14,6 | 0 | 14,6 | 35 | 11,3 | 13,7 | 7,0 | 10 |
| 29 | 1 | 0 | 1 | 12,4 | 0 | 12,4 | 21 | 11,0 | 11,0 | 3,0 | 10 |
| 30 | 1 | 0 | 1 | 11,4 | 0 | 11,4 | 39 | 10 | 10 | 1 | 10 |
| | 1,33 | 0,00 | 1,33 | 19,6 | 0,0 | 19,6 | 117,0 | 16,4 | 19,5 | 7,5 | 427 |

Monthly mean:

19,6

Covering:

30/30

Spotless days:

3

Observations:

427

Number of observers:

22

V.V.S. BELGIUM SOLAR SECTION FRANKY DUBOIS

Poekapellestraat 57

B8920 Langemark

Belgium

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Observers:

E.De Ceuninck ; J.Janssens ; Publ obs Mira ; J.Bourgeois ; R.Dezeure ; F.Feys

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

L.Meeus ; O.Steen ; KSB ; L.Claeys ; B.Thooris ; G.Gubbels ; J.De Wit ; J. Neys

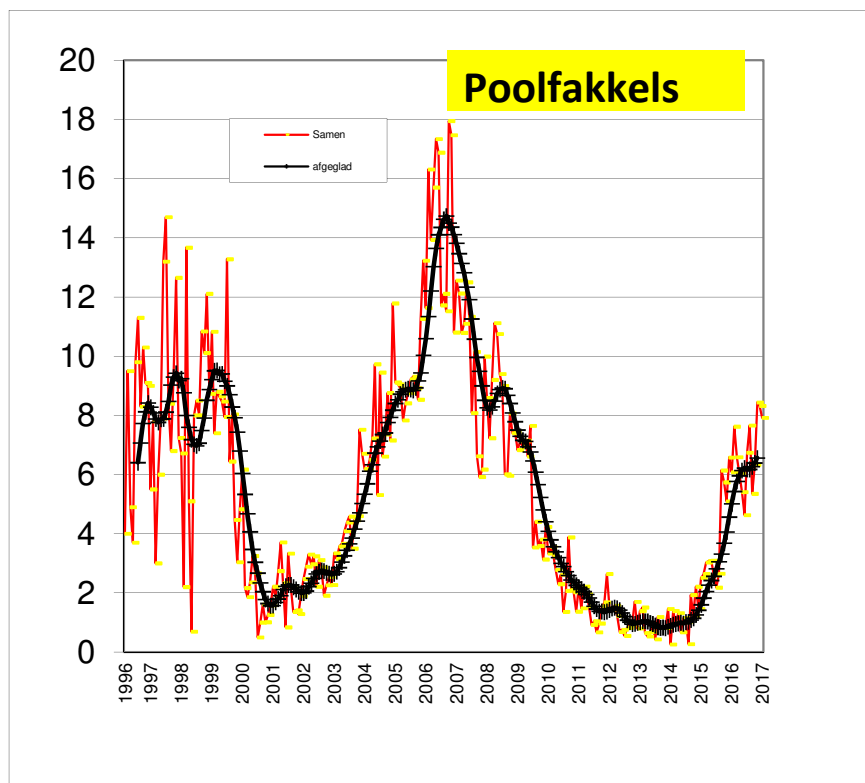
R.Verboven ; F. Van Loo ; A.T.Son ; H.Coeckelberghs ; D.Van Hessche ; I. Demeulenaere

Belgian Solar Observers

Polar Faculae

Month: June 2017

| Date | Dubois 125mm F20 | | | Steen 102mm F15 | | | T.Spaninks 127mm F15 | | | G.Gubbels 114mm F7,8 | | | J.Carels | | | Janssen 200mmF10 | | |
|------|---------------------|-------|---|--------------------|-------|-----|-------------------------|-------|---|-------------------------|-------|---|----------|-------|---|---------------------|-------|---|
| | North | South | Q | North | South | Q | North | South | Q | North | South | Q | North | South | Q | North | South | Q |
| | 1 | | | | 2 | 5 | 3,5 | 0 | 0 | 4 | | | | | | | | |
| 2 | 11 | 7 | 4 | 4 | 3 | 4 | | | | | | | | | | 3 | 6 | 4 |
| 3 | | | | | | | 1 | 0 | 4 | | | | | | | | | |
| 4 | 4 | 10 | 3 | 4 | 2 | 3,5 | 1 | 0 | 4 | | | | | | | | | |
| 5 | 4 | 8 | 3 | 4 | 2 | 4 | 0 | 0 | 4 | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | 3 | 8 | 4 | 3 | 7 | 3,5 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | 7 | 5 | 3 | | | | | | | | | | | | | | | |
| 10 | 2 | 8 | 3 | | | | 0 | 0 | 3 | | | | | | | 4 | 9 | 4 |
| 11 | 4 | 7 | 4 | 2 | 3 | 3,5 | 0 | 0 | 4 | | | | | | 2 | 8 | 4 | |
| 12 | | | | 4 | 6 | 3,5 | 0 | 2 | 4 | | | | | | | | | |
| 13 | 6 | 7 | 4 | 3 | 8 | 4,0 | 0 | 1 | 4 | | | | | | 2 | 11 | 4 | |
| 14 | 9 | 11 | 4 | 3 | 6 | 4 | 0 | 0 | 4 | | | | | | | | | |
| 15 | | | | 3 | 4 | 3,5 | 0 | 0 | 4 | | | | | | | | | |
| 16 | | | | 3 | 5 | 3,5 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | |
| 18 | | | | 4 | 7 | 4,0 | 0 | 0 | 5 | | | | | | 2 | 5 | 4 | |
| 19 | 4 | 8 | 3 | 1 | 3 | 4,0 | 0 | 0 | 5 | | | | | | | | | |
| 20 | | | | 2 | 6 | 3 | 0 | 0 | 5 | | | | | | | | | |
| 21 | | | | 3 | 5 | 3,5 | 0 | 0 | 5 | | | | | | | | | |
| 22 | | | | 2 | 4 | 3,0 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | 0 | 0 | 3 | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | |
| | 5,40 | 7,90 | | 2,94 | 4,75 | | 0,1 | 0,2 | | ##### | ##### | | ##### | ##### | | 2,60 | 7,80 | |



VVS Belgian Solar Observers Prominence number Rp

| Month : June 2017 | | | | | | | | | | | | | | | | | | | | |
|-------------------|-------------|------|------|------|------|----|-----|---------------|------|------|------|----|------|------|----------|------|------|---|----|-----|
| Day | J. Janssens | | | | | | PST | E. DeCeuninck | | | | | | PST | O. Steen | | | | | |
| | time | Q | W | H | e | Rp | | time | Q | W | H | e | Rp | | time | Q | W | H | e | Rp |
| 1 | | | | | | | | 11,25 | 3 | 2,5 | 7 | 14 | 84 | | 6,35 | 4 | 2 | 9 | 13 | 103 |
| 2 | 0,27 | 4 | 1,5 | 3 | 5 | 35 | | 10,05 | 3 | 3 | 7 | 8 | 78 | | 5,55 | 4 | 2 | 6 | 6 | 66 |
| 3 | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | 11,15 | 3,5 | 2,5 | 5 | 8 | 58 | | 7,10 | 3,5 | 2 | 6 | 6 | 66 |
| 5 | | | | | | | | 10,55 | 3 | 3 | 6 | 10 | 70 | | 6,45 | 4 | 2 | 6 | 8 | 68 |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | 7,10 | 3,5 | 2 | 8 | 10 | 90 |
| 8 | | | | | | | | 14,31 | 2,1 | 3,5 | 7 | 7 | 77 | | 17,00 | 3 | 2 | 7 | 7 | 77 |
| 9 | | | | | | | | 11,05 | 3 | 3 | 6 | 9 | 69 | | 8,00 | 3 | 2 | 7 | 9 | 79 |
| 10 | 0,28 | 3,5 | 2 | 2 | 2 | 22 | | 12,45 | 3,1 | 3 | 4 | 5 | 45 | | 10,15 | 3 | 2 | 3 | 3 | 33 |
| 11 | 0,27 | 4 | 2,5 | 1 | 1 | 11 | | 11,45 | 2 | 3 | 6 | 9 | 69 | | 7,40 | 3,5 | 2 | 3 | 4 | 34 |
| 12 | | | | | | | | | | | | | | | 8,45 | 3,5 | 2 | 4 | 5 | 45 |
| 13 | 6:40 | 4 | 1,5 | 3 | 5 | 35 | | 12,05 | 4 | 1,5 | 6 | 6 | 66 | | 7,35 | 4 | 2 | 6 | 6 | 66 |
| 14 | | | | | | | | 11,35 | 3 | 2,5 | 4 | 5 | 45 | | 7,30 | 4 | 2 | 6 | 7 | 67 |
| 15 | | | | | | | | 12,05 | 3,2 | 2,5 | 10 | 14 | 114 | | 6,10 | 3,5 | 2 | 8 | 9 | 89 |
| 16 | | | | | | | | 11,35 | 3,1 | 3 | 6 | 8 | 68 | | 7,30 | 3,5 | 2 | 5 | 6 | 56 |
| 17 | | | | | | | | 10,35 | 3 | 2,5 | 7 | 8 | 78 | | 13,00 | 3 | 2 | 5 | 5 | 55 |
| 18 | 6:45 | 4 | 1 | 4 | 6 | 46 | | 8,45 | 3,2 | 2,5 | 6 | 8 | 68 | | 7,05 | 4 | 2 | 8 | 9 | 89 |
| 19 | | | | | | | | 11,45 | 2,3 | 3,5 | 6 | 8 | 68 | | 8,10 | 4 | 2 | 6 | 6 | 66 |
| 20 | | | | | | | | 11,45 | 2,7 | 3,2 | 9 | 10 | 100 | | 6,20 | 4 | 2 | 6 | 6 | 66 |
| 21 | | | | | | | | 12,05 | 2,5 | 3,5 | 5 | 8 | 58 | | 7,05 | 3,5 | 2 | 6 | 6 | 66 |
| 22 | | | | | | | | | | | | | | | 6,20 | 3 | 2 | 7 | 7 | 77 |
| 23 | | | | | | | | 11,45 | 2,5 | 3 | 3 | 3 | 33 | | 13,20 | 3 | 3 | 5 | 5 | 55 |
| 24 | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | 9,55 | 3,5 | 2,5 | 5 | 5 | 55 | | | | | | | |
| 26 | | | | | | | | 11,45 | 2,8 | 3,2 | 8 | 12 | 92 | | 12,15 | 3,5 | 2 | 6 | 8 | 68 |
| 27 | | | | | | | | 12,05 | 2,5 | 3,5 | 6 | 11 | 71 | | | | | | | |
| 28 | | | | | | | | | | | | | | | 14,50 | 3,5 | 2 | 4 | 6 | 46 |
| 29 | | | | | | | | 16,15 | 2,1 | 3,5 | 4 | 5 | 45 | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | |
| 5 | 3,90 | 1,70 | 2,60 | 3,80 | 29,8 | 22 | 3,0 | 3,00 | 6,05 | 8,23 | 68,7 | 23 | 3,54 | 2,04 | 5,96 | 6,83 | 66,4 | | | |

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 : $H \cdot 10 + e$

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

| N.O.A.A. | ZICHTBAAR | | N.O.A.A. | | MAX | MAX | classificatie | | | | | | |
|----------|-----------|----------|----------|--------|------|--------|---------------|-----|-----|-----|-----|-----|-----|
| Regio | van | tot | breedte | lengte | AREA | LENGTE | Macintosh | | | | | | |
| 12661 | 31-05-17 | 08-06-17 | N06 | 213 | 0200 | 12 | HRX | CAI | DAO | EAO | CAO | HAX | AXX |
| 12662 | 13-06-17 | 24-06-17 | N12 | 52 | 0170 | 03 | HSX | HRX | AXX | | | | |
| 12663 | 15-06-17 | 21-06-17 | N13 | 92 | 0100 | 10 | DSO | CSO | HSX | | | | |
| 12664 | 20-06-17 | 02-07-17 | N18 | 314 | 0100 | 07 | CSO | HSX | CSO | DSI | CSO | HSX | |