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**A comment on the paper 'Solar activity and its influence
on climate' Author C. de Jager Published in
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Mijnbouw, 87-3, pp 207213, 3 2008**

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1 A comment on the paper 'Solar activity and its influence on climate'

2 Author C. de Jager

3 Published in Netherlands Journal of Geosciences-Geologie en Mijnbouw, 87-3, pp 207-213,
4 2008

5
6 by Christine Amory-Mazaudier and J-P. Legrand

7 Netherlands Journal of Geosciences-Geologie en Mijnbouw, [88-3] 177, 2009

8
9 The purpose of this comment is not to criticize the results obtained by Dr C. de Jager, and
10 we agree for example with his prediction of the next sunspot cycle amplitude – 68 with
11 $\sigma=17$.

12 We just want to recall the necessity to keep scientific memory in order to maintain the
13 common knowledge. We consider that the work of Dr C. de Jager is based on the results
14 obtained by Ohm, Legrand and Simon:

- 15 1. Ohl (1966) who pointed out the empirical connection that allows to predict the
16 amplitude of the next sunspot solar cycle from the values of the aa index (Mayaud
17 1972) at the time of the magnetic minima which appears during the minima of the
18 sunspot solar cycle or one year later.
- 19 2. Legrand and Simon (1980-1992) who analyzed the data of ten solar cycles in
20 order to study the relation between solar and geomagnetic activities and explain
21 Ohl's results. Among other facts, they showed that recurrent magnetic activity
22 (related to the divergence of the poloidal solar field) at the end of the sunspot cycles
23 produced by stable solar wind jets was connected to the maximum of the following
24 sunspot solar cycle. This is another aspect of the Ohl's relation.

25 We think it is of essential importance that articles using the above results should contain
26 references to these following papers:

27 Ohl, A., T., 1966, Forecast of sunspot maximum number of cycle 20, *Solnice Danie*, 12:84-
28 85.

29 Legrand, J.P. and Simon, P.A., 1981, Ten Cycles of Solar geomagnetic Activity, *Solar*
30 *Physics*, 70/173-195.

31 Legrand, J.P. and Simon, P.A., 1989, Solar cycle and geomagnetic activity: A review for
32 Geophysicists, Part I. The contributions to geomagnetic activity of shock waves and of the
33 solar wind, *Annales Geophysicae*, 7 (6):565-578.

34 Legrand, J.P. and Simon, P.A., 1989, Solar cycle and geomagnetic activity: A review for
35 Geophysicists, Part II. The solar sources of geomagnetic activity and their links with
36 sunspot cycle activity, *Annales Geophysicae*, 7 (6):579-596.

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