## **Accepted Manuscript**

Factors affecting the <sup>7</sup>Be surface concentration and its extremely high occurrences over the Scandinavian Peninsula during autumn and winter

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PII: S0045-6535(18)30254-6

DOI: 10.1016/j.chemosphere.2018.02.052

Reference: CHEM 20810

To appear in: Chemosphere

Received Date: 10 November 2017

Revised Date: 04 February 2018

Accepted Date: 08 February 2018

Please cite this article as: J. Ajtić, E. Brattich, D. Sarvan, V. Djurdjevic, M.A. Hernández-Ceballos, Factors affecting the <sup>7</sup>Be surface concentration and its extremely high occurrences over the Scandinavian Peninsula during autumn and winter, *Chemosphere* (2018), doi: 10.1016/j. chemosphere.2018.02.052

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## ACCEPTED MANUSCRIPT

| 1  | Factors affecting the <sup>7</sup> Be surface concentration and its extremely high occurrences over the  |
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| 2  | Scandinavian Peninsula during autumn and winter  |
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| 18 |  |
| 19 | Abstract   |
| 20 | Relationships between the beryllium-7 activity concentrations in surface air and meteorological  |
| 21 | parameters (temperature, atmospheric pressure, and precipitation), teleconnection indices (Arctic  |
| 22 | Oscillation, North Atlantic Oscillation, and Scandinavian pattern) and number of sunspots are  |
| 23 | investigated using two multivariate statistical techniques: hierarchical cluster and factor analysis.  |
| 24 | The beryllium-7 surface measurements over 1995–2011, at four sampling sites located in the   |
| 25 | Scandinavian Peninsula, are obtained from the Radioactivity Environmental Monitoring Database.   |

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