

Onsala Space Observatory, Chalmers

Publication list 2011

Compiled by Magnus Thomasson

Some publications in refereed journals 2011 enabled by the Onsala infrastructure are recorded below.

[Astronomy: Onsala 20 m telescope \(single-dish\)](#)

[Astronomy: APEX \(only Swedish authors\)](#)

[Astronomy: VLBI \(only Swedish authors\)](#)

[Geoscience](#)

Astronomy: Onsala 20 m telescope (single-dish)

Discovery of interstellar anions in Cepheus and Auriga.

M. A. Cordiner, S. B. Charnley, J. V. Buckle, C. Walsh, and T. J. Millar.

The Astrophysical Journal Letters, 730:L18 (2011)

Gas-grain models for interstellar anion chemistry.

M. A. Cordiner and S. B. Charnley.

The Astrophysical Journal, 749:120 (2012)

37 GHz methanol masers: Horsemen of the apocalypse for the Class II methanol maser phase?

S. P. Ellingsen, S. L. Breen, A. M. Sobolev, M. A. Voronkov, J. L. Caswell, and N. Lo.

The Astrophysical Journal, 742:109 (2011)

Giving physical significance to the Hi-GAL data: determining the distance of cold dusty cores in the Milky Way.

D. Russeil, M. Pestalozzi, J. C. Mottram, S. Bontemps, L. D. Anderson, A. Zavagno, M. T. Beltrán, J. Bally, J. Brand, C. Brunt, R. Cesaroni, G. Joncas, D. Marshall, P. Martin, F. Massi, S. Molinari, T. Moore, A. Noriega-Crespo, L. Olmi, M. A. Thompson, M. Wienen, and F. Wyrowski.

Astron. Astrophys. 526, A151 (2011)

The chemical age of the Bok globule CB238.

Flavio Scappini, Claudio Codella, Cesare Cecchi-Pestellini, and Tommaso Gatti.

The Astronomical Journal, 142:70 (2011)

Observational tests of interstellar methanol formation.

E. S. Wirström, W. D. Geppert, Å. Hjalmarson, C. M. Persson, J. H. Black, P. Bergman, T. J. Millar, M. Hamberg, and E. Vigren.

Astron. Astrophys. 533, A24 (2011)

Astronomy: APEX (only Swedish authors)

Only publications with Swedish authors are listed here. For a complete list, see the ESO Telescope Bibliography “Telbib”, <http://telbib.eso.org/>.

Deuterated formaldehyde in ρ Ophiuchi A.

P. Bergman, B. Parise, R. Liseau, and B. Larsson.

Astron. Astrophys. 527, A39 (2011)

Detection of interstellar hydrogen peroxide.

P. Bergman, B. Parise, R. Liseau, B. Larsson, H. Olofsson, K. M. Menten, and R. Güsten.

Astron. Astrophys. 531, L8 (2011)

Herschel observations of the Herbig-Haro objects HH52-54.

P. Bjerkeli, R. Liseau, B. Nisini, M. Tafalla, M. Benedettini, P. Bergman, O. Dionatos, T. Giannini, G. Herczeg, K. Justtanont, B. Larsson, C. McCoey, M. Olberg, and A. O. H. Olofsson.

Astron. Astrophys. 533, A80 (2011)

A LABOCA survey of submillimeter galaxies behind galaxy clusters.

D. Johansson, H. Sigurdarson, and C. Horellou.

Astron. Astrophys. 527, A117 (2011)

A Herschel resolved far-infrared dust ring around HD 207129.

J. P. Marshall, T. Löhne, B. Montesinos, A. V. Krivov, C. Eiroa, O. Absil, G. Bryden, J. Maldonado, A. Mora, J. Sanz-Forcada, D. Ardila, J.-Ch. Augereau, A. Bayo, C. del Burgo, W. Danchi, S. Ertel, D. Fedele, M. Fridlund, J. Lebreton, B. M. González-García, R. Liseau, G. Meeus, S. Müller, G. L. Pilbratt, A. Roberge, K. Stapelfeldt, P. Thébault, G. J. White, and S. Wolf.

Astron. Astrophys. 529, A117 (2011)

Physical condition of the molecular gas at the centre of NGC1097.

N. Piñol-Ferrer, K. Fathi, A. Lundgren and G. van de Ven.

Mon. Not. R. Astron. Soc. 414, 529–537 (2011)

GRB091127/SN 2009nz and the VLT/X-shooter spectroscopy of its host galaxy: probing the faint end of the mass-metallicity relation.

S. D. Vergani, H. Flores, S. Covino, D. Fugazza, J. Gorosabel, A. J. Levan, M. Puech, R. Salvaterra, J. C. Tello, A. de Ugarte Postigo, P. D’Avanzo, V. D’Elia, M. Fernández, J. P. U. Fynbo, G. Ghirlanda, M. Jelínek, A. Lundgren, D. Malesani, E. Palazzi, S. Piranomonte, M. Rodrigues, R. Sánchez-Ramírez, V. Terrón, C. C. Thöne, L. A. Antonelli, S. Campana, A. J. Castro-Tirado, P. Goldoni, F. Hammer, J. Hjorth, P. Jakobsson, L. Kaper, A. Melandri, B. Milvang-Jensen, J. Sollerman, G. Tagliaferri, N. R. Tanvir, K. Wiersema, and R. A. M. J. Wijers.

Astron. Astrophys. 535, A127 (2011)

The LABOCA survey of the Extended Chandra Deep Field-South: a photometric redshift survey of submillimetre galaxies.

J. L. Wardlow, Ian Smail, K. E. K. Coppin, D. M. Alexander, W. N. Brandt, A. L. R. Danielson, B. Luo, A. M. Swinbank, F. Walter, A. Weiß, Y. Q. Xue, S. Zibetti, F. Bertoldi, A. D. Biggs, S. C. Chapman, H. Dannerbauer, J. S. Dunlop, E. Gawiser, R. J. Ivison, K. K. Knudsen, A. Kovács, C. G. Lacey, K. M. Menten, N. Padilla, H.-W. Rix and P. P. van der Werf.
Mon. Not. R. Astron. Soc. 415, 1479 (2011)

Astronomy: VLBI (only Swedish authors)

Only publications with Swedish authors are listed here.

Dipping in Cygnus X-2 in a multi-wavelength campaign due to absorption of extended ADC emission.

M. Bałucńska-Church, N. S. Schulz, J. Wilms, A. Gibiec, M. Hanke, R. E. Spencer, A. Rushton, and M. J. Church.
Astron. Astrophys. 530, A102 (2011)

Resolution of the compact radio continuum sources in Arp220.

Fabien Batejat, John E. Conway, Rossa Hurley, Rodrigo Parra, Philip J. Diamond, Colin J. Lonsdale, and Carol J. Lonsdale.
The Astrophysical Journal, 740:95 (2011)

Geoscience

ITRF2008: an improved solution of the international terrestrial reference frame.

Z. Altamimi, X. Collilieux, L. Metivier.
Journal of Geodesy 85(8) 457-473 (2011)

Assessment of periodic sub-diurnal Earth rotation variations at tidal frequencies through transformation of VLBI normal equation systems.

T. Artz, S. Tesmer, A. Nothnagel.
Journal of Geodesy 85(9) p. 565-584, (2011)

Effects on geodetic VLBI measurements due to polarization leakage in S/X receivers.

A. Bertarini, A. L. Roy, B. Corey, R. C. Walker, W. Alef.
Journal of Geodesy 85(10), 715-721 (2011)

Systematic differences between VTEC obtained by different space-geodetic techniques during CONT08.

D. Deterring, R. Heinkelmann, M. Schmidt.
Journal of Geodesy 85(7), 443-451 (2011)

Use of atmospheric angular momentum forecasts for UT1 predictions: analyses over CONT08.

D. Gambis, D. A. Salstein, S. Lambert.
Journal of Geodesy 86(7), 435-441 (2011)

VLBI-derived troposphere parameters during CONT08.

R. Heinkelmann, J. Böhm, S. Bolotin, G. Engelhardt, R. Haas, R. Lanotte, D. S. MacMillan, M. Negusini, E. Skurikhina, O. Titov, H. Schuh.

Journal of Geodesy 85(7), 377-393, doi: 10.1007/s00190-011-0459-x (2011)

Monitoring coastal sea level using reflected GNSS signals.

J. Löfgren, R. Haas, J. M. Johansson.

Advances in Space Research 47(2) p. 213-220 (2011)

Three months of local sea level derived from reflected GNSS signals.

J. Löfgren, R. Haas, H.-G. Scherneck, and M. S. Bos.

Radio Science. 46, RS0C05 (2011)

Universal time from VLBI single-baseline observations during CONT08.

T. Nilsson, J. Böhm, and H. Schuh.

Journal of Geodesy 85(7), 415-423 (2011)

The Impact of Microwave Absorber and Radome Geometries on Ground-Based GNSS Measurements of Coordinates and Atmospheric Water Vapour.

T. Ning, J. M. Johansson, G. Elgered.

Advances in Space Research 47 (2) p. 186-196 (2011)

Combination methods of tropospheric time series.

R. Pacione, B. Pace, H. Vedel, S. de Haan, R. Lanotte, F. Vespe.

Advances in Space Research 47(2) 323-335 (2011)

Height bias and scale effect induced by antenna gravitational deformations in geodetic VLBI data analysis,

P. Sarti, C. Abbondanza, L. Petrov, M. Negusini.

Journal of Geodesy 85(1), 1-8, DOI: 10.1007/s00190-010-0410-6 (2011)

High-resolution atmospheric angular momentum functions related to Earth rotation parameters during CONT08.

M. Schindelegger, J. Böhm, D. Salstein, and H. Schuh.

Journal of Geodesy 85(7) 425-433 (2011)

Multi-technique comparison of troposphere zenith delays and gradients during CONT08.

K. Teke, J. Böhm, T. Nilsson, H. Schuh, P. Steigenberger, R. Dach, R. Heinkelmann,

P. Willis, R. Haas, S. Garcia-Espada, T. Hobiger, R. Ichikawa, S. Shimizu.

Journal of Geodesy 85(7), p. 395-413 (2011)