Dr. Tonie M. van Dam
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Employment History:

2002-present	Professor, University of Utah, College of Mines and Earth Science Department of Geology and Geophysics
2019-2020	Professor, Interdisciplinary Center for Security and Trust; Head of Remote Sensing Group
2018-2019	Vice President for Strategic Projects
2017-2018	Vice-President – Doctoral Education and Training, International Relations, and Gender
2016-2019	Chargée de mission – Doctoral Education and Training and International Relations
2013-2019	Professor, Faculté des Sciences, de la Technologie et de la Communication, University of Luxembourg
2006-2013	Associate Professor, Faculté des Sciences, de la Technologie et de la Communication, University of Luxembourg
2000-2006	Research Geophysicist, European Center for Geodynamics and Seismology
1993-2000	Research Geophysicist, Geosciences Laboratory NOAA/NGS
1991-1993	Post-doc, MIT

Honors
- Fellow, American Geophysical Union, 2019
- Bowie Lecturer, American Geophysical Union, 2017
- Grand Prix en Sciences de l'Institut Grand-ducal, Science Geologiques/Prix Feidt (2017)
- European Geosciences Union's Vening Meinesz Medal (2019).
- Higher Education Academy Fellow (2014).

Education:
- Ph.D., Geophysics, University of Colorado, Boulder, CO, 1991, Thesis title: "Atmospheric Load Response of the Solid Earth and Oceans"
- BS, Phyics and Geology, Mary Washington College (now Mary Washington University), Fredricksburg, VA 1982
- Top Management Program (40) Leadership Foundation, 2017.

Memberships
- American Geophysical Union:
  - Member: 1983-present
- European Geophysical Society
  - Member: 1997-present
- American Geophysical Union:
  - Member: 1983-present
- International Association of Geodesy:
  - 1994-present

Service to the Community

- American Geophysical Union:
    - Geodesy Section Secretary: 1998-2000; 2010-2012
- European Geophysical Society
    - Geodesy Section, President: 2004-2007
    - Geodesy Section, Program Chair: 2004-2007
- International Earth Rotation Service
    - Directing Board: 2005 to present
    - Global Geophysical Fluids Center, Chair: 2005 to present
    - Special-Bureau for loading, Chair: 2001-2015; Co-Chair 2015-present
- International Union of Geodesy and Geophysics
    - Luxembourg National Committee Secretary: 2002-present
    - Luxembourg International Association of Cryospheric Science Correspondent: 2008-present
    - Secretary Union Commission on Climatic and Environmental Change
- International Association of Geodesy
    - President Commission 1, Reference Frames, 2011 – 2015
    - Representative to the IUGG Commission on Global Change
- Associate Editor Studia Geophysica et Geodaetica, 2010 – present
- Associate Editor Journal of Geodesy: 2015 – present
- UNAVCO Board of Directors: 2007-2008; 2019-2021

Refereed Publications

Tonie van Dam is author of 100 papers, 86 in peer-reviewed scientific journals, 34 of which have been published in AGU journals.

Li, C., S. Huang, Q. Chen, T. van Dam, H.S. Fok, Q. Zhao, W. Wu, and X. Wang, Quantitative Evaluation of Environmental Loading Induced Displacement Products for Correcting GNSS Time Series in CMONOC, Remote Sensing*, 12, 594*, doi:10.3390/rs12040594, 2020.

Bevis, M. + 18 authors including T. van Dam, Accelerating changes in ice mass within Greenland, and the ice sheet's sensitivity to atmospheric forcing, PNAS*, 116*, doi.org/10.1073/pnas.1806562116, 2019.

Jäggi, A. + 30 authors including T. van Dam, European Gravity Service for Improved Emergency Management (EGSIEM)—from concept to implementation, Geophysical Journal International, 218, https://doi.org/10.1093/gji/ggz238, 2019.

Prevost, P., Chanard, K., Fleitout, L, Calais, E. Walwer, D., van Dam, T., & Ghil. M., Data-adaptive spatio-temporal filtering of GRACE data, Geophysical Journal International 219, doi.org/10.1093/gji/ggz409, 2019.

Zhang, B., L. Liu, Khan, S.A., van Dam, T., Bjørk, A.A., Peings, Y., Zhang, E., Bevis, M., Yao, Y., Noël, Geodetic and model data reveal different spatio-temporal patterns of transient mass changes over Greenland from 2007 to 2017, EPSL, 515, doi.org/10.1016/j.epsl.2019.03.028, 2019.

van Dam, T., Chen, J., & Meyrath, T.. Geodetic Observations as a Monitor of Climate Change. In T. Beer, J. Li, & K. Alverson (Eds.), *Global Change and Future Earth: The Geoscience Perspective* (Special Publications of the International Union of Geodesy and Geophysics, pp. 72-88). Cambridge: Cambridge University Press. doi:10.1017/9781316761489.009, 2018.

Chen, Q., Poropat, L., Zhang, L., Dobslaw, H., Weigelt, T. van Dam, Validation of the EGSIEM GRACE Gravity Fields Using GNSS Coordinate Timeseries and In-Situ Ocean Bottom Pressure Records, Remote Sensing, 10, **doi.org/10.3390/rs10121976**, 2018.

Zhang, B., Liu, L., Khan, S. A., van Dam, T., Zhang, E., & Yao, Y. (2017), Transient

variations in glacial mass near Upernavik Isstrøm (west Greenland) detected by the combined use of GPS and GRACE data. J. Geophys. Res.: Solid Earth, 122. https://doi.org/10.1002/2017JB014529, 2017.
Meyrath, T., T. van Dam, X. Collilieux, and P Rebischung, Seasonal low-degree changes in terrestrial water mass load from global GNSS measurements, J. Geod., 91, doi: DOI 10.1007/s00190-017-1028-8, 2017.
Abbondanza, C., T. M. Chin, R. Gross, M.B. Heflin, J.W. Parker, B.S. Soja, T. van Dam, T. and X. Wu., JTRF2014, The JPL Kalman Filter and Smoother Realization of the International Terrestrial Reference System. J. Geophys. Res. Solid Earth,122, doi:10.1002/2017JB014360, 2017.
Compton, K., R. A. Bennett, S. Hreinsdóttir, T. van Dam, A. Bordoni, V. Barletta, and G. Spada, Short-term variations of Icelandic ice cap mass inferred from cGPS coordinate time series, Geochem. Geophys. Geosyst., 18, 2099–2119, doi:10.1002/2017GC006831, 2017.
Tabibi, S., F. Geremia-Nievinski, T. van Dam, Statistical Comparison and Combination of GPS, GLONASS, and Multi-GNSS Multipath Reflectometry Applied to Snow Depth Retrieval, IEE Transactions on Geoscience and Remote Sensing, 99, 10.1109/TGRS.2017.2679899, 2017.
Liu, L., S. A. Khan, T. van Dam, J. H. Y. Ma, and M. Bevis, Annual variations in GPS-measured vertical displacements near Upernavik Isstrøm (Greenland) and contributions from surface mass loading, J. Geophys. Res. Solid Earth, 122, doi:10.1002/2016JB013494, 2017.
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Li, Z. and T. van Dam, The Phase 2 North America Land Data Assimilation System (NLDAS-2) products for modeling water storage displacements for Plate Boundary Observatory GPS stations, *International Association of Geodesy Symposia 2015*, doi:10.1007/1345_2015_176, 2015.
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Jin, S., T. van Dam, and S. Wdowinski, Observing and understanding the Earth system variations from space geodesy, *J. Geodynamics*, *72*, http://dx.doi.org/10.1016/j.jog.2013.08.001, 2013.
Panet, I., J. Flury, R. Biancale, T. Gruber, J. Johannessen, R.R. van den Broeke, T. van Dam, P. Gegout, C.W. Hughes, G. Ramillien, I. Sasgen, L. Seoane, M. Thomas, Earth System Mass Transport Mission (e.motion): A concept for future Earth gravity field measurements from space, *Surv. Geophys, 34*, DOI 10.1007/s10712-012-9209-8, 2013.
Ray, R., S.B. Luthcke, and T. van Dam, Monthly crustal loading corrections for satellite altimetery, *J. Atmos. Oceanic Technol.*, **30**, 999–1005. doi: http://dx.doi.org/10.1175/JTECH-D-12-00152.1, 2013.
Meyrath, T., T. van Dam, M. Weigelt, and M. Cheng, An assessment of degree-2 Stokes coefficients from rotation data, GJI, 2013, doi:10.1093/gji/ggt263, 2013.
Weigelt, M., T. van Dam, A. Jaggi, L. Prange, M. J. Tourian,W. Keller, and N.

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Chen, Q., T. van Dam, N. Sneeuw, X. Collilieux, M. Weigelt, and P. Rebischung, Singular spectrum analysis for modeling seasonal signals from GPS time series, Journal of Geodynamics, doi: http://dx.doi.org/10.1016/j.jog.2013.05.005, 2013.

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King, M., Z. Altamimi, J. Boehm, M. Bos, R. Dach, P. Elosegui, F. Fund, M. Hernandez-Pajares, D. Lavalee, P.J. Mendes Cerveira, N. Pena, R. Riva, P. Seeigenberger, T. van Dam, L. Vituari, S. Williams, and P. Willis, Improved Constraints on Models of Glacial Isostatic Adjustment: A Review of the Contribution of Ground-based Geodetic Observations, Surveys in Geophysics, 31 (5), 465-507, doi: 10.1007/s10712-010-9100-4, 2010.

Collilieux, X., Z. Altamimi, D. Coulot, T. van Dam and J. Ray, Impact of loading effects on determination of the International Terrestrial Reference Frame, Advances in Space Research, 45, 144-154, doi:10.1016/j.asr.2009.08.024, 2010.

Collilieux, X., Z. Altamimi, J. Ray, T.M. van Dam, and X. Wu, Effect of the satellite laser ranging network distribution on geocenter motion estimation, J. Geophys. Res., 114, (B04402), doi:10.1029/2008JB005727, 2009.

Khan, S. A., J. Wahr, L. A. Stearns, G. S. Hamilton, T. van Dam, K. M. Larson, and O. Francis, Elastic uplift in southeast Greenland due to rapid ice mass loss, Geophys. Res. Lett., 34, L21701, doi:10.1029/2007GL031468, 2007.

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van Dam, T., J. Wahr, and D. Lavallee, A comparison of annual vertical crustal displacements from GPS and GRACE, J. Geophys. Res., vol. 111, B05405, doi:10.1029/2005JB003784, 2006.

Nicolas, J. J.-M. Nocquet, M. Van Camp, T. van Dam, J.-P. Boy, J. Hinderer, P. Gegout, E. Calais, and M. Amalvict, Seasonal effect on vertical positioning by Satellite Laser Ranging and GPS and on Absolute Gravity at the OCA geodetic station, Grasse, France, Geophysical Journal International, vol. 167, pp. 1127-1137, doi:10.1111/j.1365-246X.2006.0320, 2006.

Van Camp, M., M. Vanclooster, O. Crommen, T. Petermans, K. Verbeeck, B. Meurers, T. van Dam and A. Dassargues, Hydrogeological investigations at

the Membach station, Belgium and application to correct long periodic gravity variations, J. Geophys. Res., Vol. 111, No. B10403, doi:10.1029/2006JB004405, 2006.
Lavallée, David A., T. van Dam, G. Blewitt, P.J. Clarke, Geocenter motions from GPS: A unified observation model, J. Geophys. Res., Vol. 111, No. B5, doi:10.1029/2005JB003784, 2006.
Tregoning, P. and T. van Dam, Atmospheric loading corrections applied to GPS data at the observation level, Geophys. Res. Lett., Vol, 32, L22310, doi:10.1029/2005GL024104, 2005.
Clarke, P. J., D.A. Lavallèe, G. Blewitt, T. M. van Dam, J.M. Wahr, Effect of gravitational consistency and mass conservation on seasonal surface mass loading models, Geophys. Res. Lett.,Vol.32, No. 8, L08306, 10.1029/2005GL022441, 2005.
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Zerbini, S., F. Matonti, R. Raicich, B. Richter, T. van Dam, Observing and assessing non-tidal ocean loading using ocean, continuous GPS and gravity data in the Adriatic area, Geophysical Research Letters, 31, L23609, doi:10.1029/2004GL021185, 2004.
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Francis O. and T. van Dam, Superconducting gravimeters in Seismology, Newsletter of the European-Mediterranean Seismological Centre No.21, 13-15, 2004.
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Francis, O. and T. van Dam, Evaluation of the precision of using absolute gravimeters to calibrate superconducting gravimeters, Metrologia, 39, 485-488, 2003.
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Camelbeeck, Th., M. Van Camp, D. Jongmans, O. Francis, T. van Dam, Comment on Nature of the recent vertical ground movements inferred from high precision levelling data in an intra-plate setting: NE Ardenne, Belgium by A. Demoulin and A. Collignon, J. Geophys. Res, 107, doi:1029/2001JB000397, 2002
Wahr, J.M., T. van Dam, K. Larson, and O. Francis, Geodetic Measurements in Greenland and their implications, J. of Geophys. Res., 106, 16567 - 16581, 2001.
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Refereed Proceedings Publications

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