References

Altamimi, Z., X. Collilieux, J. Legrand, B. Garayt, C. Boucher, "ITRF2005: A new release of the International Terrestrial Reference Frame based on time series of station positions and Earth Orientation Parameters," J. of Geophysical Research, Vol. 112, B09401, doi:10.1029/2007/JB004949, Sep. 2007.
http://www.agu.org/journals/jb/jb0709/2007JB004949/

Artz, T., S. Böckmann, A. Nothnagel, V. Tesmer, "Comparison and Validation of VLBI Derived Polar Motion Estimates," in: International VLBI Service for Geodesy and Astrometry, *Measuring the Future, Proceedings of the Fifth IVS General Meeting*; A. Finkelstein and Dirk Behrend (eds.); pp. 324–328, Nauka, Saint Petersburg, ISBN 978-5-02-025332-2, 2008.
ftp://ivscc.gsfc.nasa.gov/pub/general-meeting/2008/pdf/artz.pdf

Beasley, A. J., D. Gordon, A. B. Peck, L. Petrov, D. S. McMillan, E. B. Fomalont, C. Ma, "The VLBA Calibrator Survey-VCS1," Astrophys. J. Supp., vol. 141, pp. 13–21, 2002.
http://www.iop.org/EJ/abstract/0067-0049/141/1/13/

Biermann, G. J., *Factorization Methods for Discrete Sequential Estimation*, Vol. 128, Mathematics in Science and Engineering Series, Academic Press, New York, 1977.
books.google.com/books?id=E1z6yWdo-gUC

Böckmann, S., T. Artz, A. Nothnagel, V. Tesmer, "Comparison and Combination of Consistent VLBI solutions," in *Proceedings of the 18th European VLBI for Geodesy and Astrometry Working Meeting*, Vienna, Austria, pp. 82–87, 12–13 April 2007.
http://mars.hg.tuwien.ac.at/∼evga/proceedings/S34_Boeckmann.pdf

Böckmann, S., Nothnagel A., Artz, T., "VLBI Terrestrial Reference Frame Contributions to ITRF2008," J. Geod, in preparation, 2009.

Böhm, J., B. Werl, H. Schuh, "Troposphere Mapping Functions for GPS and Very Long Baseline Interferometry from European Centre for Medium-Range Weather Forecasts Operational Analysis Data," J. of Geophysical Research, vol. 111, Issue B2, CiteID B02406, Feb. 2006.
www.agu.org/journals/jb/jb0602/2005JB003629/

Bolotin S., "Influence of Different Strategies in VLBI Data Analysis on Realizations of ICRF," in *Proc. of the Journées 2007: Systèmes de Référence Spatio-Temporels*, Paris, pp. 20–23, Sep. 2007.
http://syrte.obspm.fr/journees2007/PDF/s1_05_Bolotin.pdf

Bolotin S., S. Lytvyn, "Comparison of Radio Source Positions from Individual Solutions," In: International VLBI Service for Geodesy and Astrometry, *Measuring the Future, Proceedings of the Fifth IVS General Meeting*; A. Finkelstein and D. Behrend (eds.); pp. 270–274, Nauka, Saint Petersburg, ISBN 978-5-02-025332-2, 2008.
ftp://ivscc.gsfc.nasa.gov/pub/general-meeting/2008/pdf/bolotin.pdf

Charlot, P., "Radio Source Structure in Astrometric and Geodetic Very Long Baseline Interferometry", AJ, vol. 99, no. 4, pp. 1309–1326, April 1990.
articles.adsabs.harvard.edu/cgi-bin/nph-iarticle_query?1990AJ.....99.1309C

Charlot, P., D. A. Boboltz, A. L. Fey, E. B. Fomalont, B. J. Geldzahler, D. Gordon, C. S. Jacobs, G. .E. Lanyi, C. Ma, C. J. Naudet, J. D. Romney, O. J. Sovers, and L. D. Zhang, "The Celestial Reference Frame at Higher Radio Frequencies II. VLBA Imaging at 24 and 43 GHz," submitted to AJ, 21 Nov 2008.
http://www.iop.org/EJ/journal/aj

Clark, T. A, D. Gordon, W. E. Himwich, C. Ma, A. Mallama, J. W. Ryan, "Determination of Relative Site Motions in the Western United States Using Mark III Very Long Baseline Interferometry," J. Geophysical Research, vol. 92, no. B12, pp. 12741–12750, 10 Nov. 1987.
http://www.agu.org/journals/jb/v092/iB12/JB092iB12p12741/JB092iB12p12741.pdf

Feissel-Vernier, M., C. Ma, A.-M. Gontier, & C. Barache, "Analysis Strategy Issues for the Maintenance of the ICRF Axes," A&A, vol. 452, issue 3, pp. 1107–1112, June 2006.
http://www.aanda.org/index.php?option=article&access=doi&doi=10.1051/0004-6361:20054581

Fey, A. L., A. W. Clegg, E. B. Fomalont, "VLBA Observations of Radio Reference Frame Sources. I," ApJS, 105, pp. 299–330, Aug. 1996.
http://articles.adsabs.harvard.edu/cgi-bin/nph-iarticle_query?1996ApJS..105..299F

Fey, A. L., P. Charlot, "VLBA Observations of Radio Reference Frame Sources. II. Astrometric Suitability Based on Observed Structure," ApJS, 111, pp. 95–142, Jul. 1997.
http://www.iop.org/EJ/abstract/0067-0049/111/1/95/

Fey, A. L., P. Charlot, "VLBA Observations of Radio Reference Frame Sources. III. Astrometric Suitability of an Additional 225 Sources", ApJS, 128, issue 1, pp. 17–83, May 2000.
http://www.iop.org/EJ/abstract/0067-0049/128/1/17/

Fey, A. L., D. A. Boboltz, R. A. Gaume, T. M. Eubanks, & K. J. Johnston, "Extragalactic Radio Source Selection for Use in Directly Linking Optical Astrometric Observations to the Radio Reference Frame," AJ, 121, pp. 1741–1751, Mar. 2001.
http://www.iop.org/EJ/abstract/1538-3881/121/3/1741/

Fey, A. L., C. Ma, E. F. Arias, P. Charlot, M. Feissel-Vernier, A.-M. Gontier, C. S. Jacobs, J. Li, and D. S. MacMillan, "The Second Extension of the ICRF: ICRF-Ext.2," AJ, vol. 127, no. 6, pp. 3587–3608, June 2004.
http://www.iop.org/EJ/abstract/1538-3881/127/6/3587/

Fomalont. E. B., L. Petrov, D. S. McMillan, D. Gordon, C. Ma, "The second VLBA Calibrator Survey: VCS2," AJ, vol. 126 (N5), pp. 2562–2566, Nov. 2003.
http://www.iop.org/EJ/abstract/1538-3881/126/5/2562/

Fricke, W., Schwan, H., Lederle, T., U. Bastian, R. Bien, G. Burkhardt, B. Du Mont, R. Hering, R. Jährling, H. Jahreiß, S. Röser, H.-M. Schwerdtfeger, H. G. Walter, "Fifth Fundamental Catalogue (FK5), Part I: The Basic Fundamental Stars," Veröff. Astron. Rechen-Institut Heidelberg, no. 32, pp. 1–106, 1988.
http://www.ari.uni-heidelberg.de/publikationen/vhd/vhd032/vhd032.htm

Gontier, A.-M., M. Feissel, C. Ma, "The Contribution of VLBI to the Realization of a Celestial Reference System," in *IERS Technical Note 23: Definition and Realization of the International Celestial Reference System by VLBI Astrometry of Extragalactic Objects*, C. Ma, and M. Feissel (editors), Observatoire de Paris, pp. I- 3–20, June 1997.
http://www.iers.org/MainDisp.csl?pid=46-25772

Gordon, D., "VLBA Impact on Geodesy and Astronomy," in *International VLBI Service for Geodesy and Astrometry, 2004 General Meeting Proceedings*, Ottawa, Canada, NASA/CP-2004-212255, pp. 351-355, 9–11 Feb. 2004.
http://ivscc.gsfc.nasa.gov/publications/gm2004/gordon1/

Gubanov, V. S., Yu. L. Rusinov, I. F. Surkis, C. Y. Shabun, S. L. Kurdubov, "Project: Global Analysis of 1979-2004 VLBI Data," in *International VLBI Service for Geodesy and Astrometry 2004 General Meeting Proceedings*, Ottawa, Canada, NASA/CP-2004-212255, pp. 315–319, 9–11 Feb. 2004.
http://ivscc.gsfc.nasa.gov/publications/gm2004/gubanov/

Healey S.E., R.W. Romani, G.B. Taylor, E.M. Sadler, R. Ricci,T. Murphy,J.S. Ulvestad, J.N. Winn, Astrophys. J. Suppl. Ser., 171, 61, 2007.
http://vizier.cfa.harvard.edu/viz-bin/VizieR?-source=J/ApJS/171/61

IAU General Assembly XXIII, Resolution B2-d, Kyoto, Japan, August 1997.
http://iau.org/static/resolutions/IAU1997_French.pdf

IERS 1996, 1995 IERS Annual Report, technical coordinator: L. Castrique, International Earth Rotation Service, Observatoire de Paris, Paris, France, II-19, July 1996.
http://www.iers.org/MainDisp.csl?pid=47-25778

Jacobs, C.S., & O. J. Sovers, "Extending the ICRF to Higher Radio Frequencies: Global Astrometric Results at 32/8 GHz," in International VLBI Service for Geodesy and Astrometry, *Measuring the Future, Proceedings of the Fifth IVS General Meeting*; A. Finkelstein and D. Behrend (eds.); pp. 284–288, Nauka, Saint Petersburg, ISBN 978-5-02-025332-2, 2008.
ftp://ivscc.gsfc.nasa.gov/pub/general-meeting/2008/pdf/jacobs.pdf

Kovalev, Y. Y., L. Petrov, E. B. Fomalont, D. Gordon, "The Fifth VLBA Calibrator Survey - VCS5," AJ, vol. 133, pp. 1236–1242, April 2007.
http://www.iop.org/EJ/abstract/1538-3881/133/4/1236/

Kurdubov, S., "QUASAR software in IAA EOP service: Global Solution and Daily SINEX," in *Proceedings of the 18th European VLBI for Geodesy and Astrometry Working Meeting*, ed. by Johannes Böhm, Andrea Pany, and Harald Schuh, GEOWISSENSCHAFTLICHE MITTEILUNGEN, Heft Nr. 79, pp. 79–82, 2007.
http://mars.hg.tuwien.ac.at/∼evga/proceedings/S33_Kurdubov.pdf

Kur′yanova A. N., Yatskiv, Ya. S., "The Compiled Catalog of Positions of Extragalactic Radio Sources RSC(GAO UA) 91 C 01," Kinematics Phys. Celest. Bodies, vol. 9, no. 2, pp. 12–21, 1993.
http://adsabs.harvard.edu/abs/1993KPCB....9Q..12K

Lambert, S. B., & A.-M. Gontier, "On Radio Source Selection to Define a Stable Celestial Frame," A&A, vol. 493, issue 1, pp. 317–323, Jan. 2009.
http://www.aanda.org/articles/aa/abs/2009/01/aa10582-08/aa10582-08.html

Lanyi, G. E. ; E. B. Fomalont, P. Charlot, B. Geldzahler, D. Gordon, C. S. Jacobs, C. Ma, C. J. Naudet, J. Romney, O. J. Sovers, L. D. Zhang, and the K-Q VLBI Survey Collaboration, "Extragalactic Celestial Reference Frames at 24 and 43 GHz: Global Astrometric Results from the VLBA," AJ, submitted 21 Nov 2008.
http://www.iop.org/EJ/journal/aj

Ma C., J. M. Sauber, L. J. Bell, T. A. Clark, D. Gordon, W. E. Himwich, J. W Ryan, "Measurement of Horizontal Motions in Alaska using Very Long Baseline Interferometry," J. Geophys. Res., vol. 95, no. B13, pp. 21991–22011, 10 Dec. 1990.
http://www.agu.org/journals/jb/v095/iB13/JB095iB13p21991/JB095iB13p21991.pdf

Ma, C., E. F. Arias, T. M. Eubanks, A. L. Fey, A.-M. Gontier, C. S. Jacobs, O. J. Sovers, B. A. Archinal, P. Charlot, "The International Celestial Reference Frame Realized by VLBI," in *IERS Technical Note 23: Definition and Realization of the International Celestial Reference System by VLBI Astrometry of Extragalactic Objects*, C. Ma and M. Feissel (editors), Observatoire de Paris, June 1997.
http://www.iers.org/MainDisp.csl?pid=46-25772

Ma, C., E. F. Arias, T. M. Eubanks, A. L. Fey, A.-M. Gontier, C. S. Jacobs, O. J. Sovers, B. A. Archinal, and P. Charlot, "The International Celestial Reference Frame as Realized by Very Long Baseline Interferometry," AJ, 116, 1, pp. 516–546, July 1998.
http://www.iop.org/EJ/abstract/1538-3881/116/1/516

Malkin Z. and O. Titov, in International VLBI Service for Geodesy and Astrometry, *Measuring the Future, Proceedings of the Fifth IVS General Meeting*; A. Finkelstein and D. Behrend (eds.); pp. 183–187, Nauka, Saint Petersburg, ISBN 978-5-02-025332-2, 2008.
ftp://ivscc.gsfc.nasa.gov/pub/general-meeting/2008/pdf/malkin2.pdf
Associated catalog available at: http://www.gao.spb.ru/english/as/ac_vlbi/sou_car.dat

McCarthy, D. D. and G. Petit (editors), "IERS Conventions (2003)," *IERS Technical Note No. 32*, Verlag des Bundesamtes fur Kartographie und Geodesie, Frankfurt am Main, ISBN 3-89888-884-3, 2004.
http://www.iers.org/MainDisp.csl?pid=46-25776

MacMillan, D. S., C. Ma, "Atmospheric Gradients and the VLBI Terrestrial and Celestial Reference Frames," Geophys. Res. Lett., vol. 24, no 4, pp. 453–456, 15 Feb. 1997.
http://www.agu.org/journals/gl/gl9704/97GL00143.pdf

Niell, A. E., "Global Mapping Functions for the Atmosphere Delay at Radio Wavelengths," J. Geophys. Res., vol. 101, no. B2, pp. 3227–3246, 10 Feb. 1996.
http://www.agu.org/journals/jb/jb9602/95JB03048.pdf
Equations 4 and 5 corrected in version at
www.haystack.mit.edu/geo/pubs/NMF_JGR.pdf

Nothnagel, A., "Conventions on Thermal Expansion Modeling of Radio Telescopes for Geodetic and Astrometric VLBI," J. of Geod., 83, 8, doi: 10.1007/s00190-008-0284-z, pp. 787-792, 15 Nov 2008.
http://www.springerlink.com/content/k235683l1t031728/

Ojha, R., A. L. Fey, K. J. Johnston, D. L. Jauncey, J. E. Reynolds, A. K. Tzioumis, J. F. H. Quick, G. D. Nicolson, S. P. Ellingsen, R. G. Dodson, P. M. McCulloch, "VLBI Observations of Southern Hemisphere ICRF Sources. I." AJ, 127, issue 6, pp. 3609–3621, June 2004.
http://www.iop.org/EJ/abstract/1538-3881/127/6/3609/

Ojha, R., A. L. Fey, P. Charlot, D. L. Jauncey, K. J. Johnston, J. E. Reynolds, A. K. Tzioumis, J. F. H. Quick, G. D. Nicolson, S. P. Ellingsen, P. M. McCulloch, Y. Koyama, "VLBI Observations of Southern Hemisphere ICRF Sources. II. Astrometric Suitability Based on Intrinsic Structure", AJ, 130, issue 6, pp. 2529–2540, Dec. 2005.
http://www.iop.org/EJ/abstract/1538-3881/130/6/2529/

Petrov, L., Y. Y. Kovalev, E. Fomalont, D. Gordon, "The Third VLBA Calibrator Survey: VCS3," AJ, vol. 129, issue 2, pp. 1163–1170, Feb. 2005.
http://www.iop.org/EJ/article/1538-3881/129/2/1163/204415.html

Petrov, L., Y. Y. Kovalev, E. Fomalont, D. Gordon, "The Fourth VLBA Calibrator Survey: VCS4," AJ, vol. 131, issue 3, pp. 1872–1879, March 2006.
http://www.iop.org/EJ/article/1538-3881/131/3/1872/204973.html

Petrov, L., Y. Y. Kovalev, E. B. Fomalont, D. Gordon, "The Sixth VLBA Calibrator Survey: VCS6," AJ, vol. 136, issue 2, pp. 580–585, 02 July 2008.
http://www.iop.org/EJ/article/1538-3881/136/2/580/aj_136_2_580.html

Petrov, L., D. Gordon, J. Gipson, D. MacMillan, C. Ma, E. Fomalont, R. C. Walker, C. Carabajal, "Precise Geodesy with the Very Long Baseline Array," Journal of Geodesy, vol. 83, no. 9, pp. 859–876, Sep. 2009.
http://www.springerlink.com/content/ul417881xj8485gm/

Petrov, L., J.-P. Boy, "Study of the Atmospheric Pressure Loading Signal in Very Long Baseline Interferometry Observations," J. of Geophys. Res., vol. 109, B03405, doi:10.1029/2003JB002500, 2004.
http://www.agu.org/journals/jb/jb0403/2003JB002500/

Ryan, J. W., T. A. Clark, C. Ma, D. Gordon, D. S. Caprette, W. E. Himwich, "Global Scale Tectonic Plate Motions Measured with CDP Data," in *Contributions of Space Geodesy to Geodynamics: Crustal Dynamics*, D. E. Smith and D. L. Turcotte (eds), American Geophysical Union, Washington D.C., Geodynamics Series 23, pp. 37–49, 1993.
http://books.google.com/books?id=GEwSAQAAIAAJ

Souchay J., A.H. Andrei, C. Barache, S. Bouquillon, A.-M. Gontier, S.B. Lambert, C. Le Poncin-Lafitte, F. Taris, E.F. Arias, D. Suchet, M. Baudin, "The Construction of the Large Quasar Astrometric Catalog (LQAC)," Astron. Astrophys., vol. 494, issue 2, pp. 799–815, 2009.
http://www.aanda.org/articles/aa/abs/2009/05/aa09602-08/aa09602-08.html

Stickel M., H. Kuehr, J.W. Fried, "Optical spectroscopy of 1Jy, S4 and S5 radio source identifications", Astron. Astrophys. Suppl. Ser. v. 80, pp. 103-114, 1989; v. 97, pp. 483–500, 1993; v. 100, p. 395, 1993; v. 101, p. 521, 1993; v. 103, p. 349, 1994.
http://vizier.cfa.harvard.edu/viz-bin/VizieR?-source=J/A+AS/80/103

Tesmer, V., "Effect of Various Analysis Options on VLBI determined CRF," in *Proceedings of 18th European VLBI for Geodesy and Astrometry (EVGA) Working Meeting*, Vienna, Austria, 2007
http://mars.hg.tuwien.ac.at/∼evga/proceedings/S42_Tesmer.pdf

Titov, O., V. Tesmer, J. Böhm, OCCAM v.6.0 Software for VLBI Data Analysis, In *International VLBI Service for Geodesy and Astrometry 2004 General Meeting Proc.*, Ottawa, Canada, editors: N. V. Vandenberg and K. D. Baver, NASA/CP-2004-212255, pp. 267–271, 9–11 Feb. 2004.
http://ivscc.gsfc.nasa.gov/publications/gm2004/titov1/

Titov, O., "Construction of a Celestial Coordinate Reference Frame from VLBI Data," Astronomy Reports, vol. 48, issue 11, pp. 941–948, Nov. 2004.
http://www.springerlink.com/content/w356x04017064x00/fulltext.pdf

Veron-Cetty M. P. and P. Veron, 'Quasars and Active Galactic Nuclei (12th Ed.),' Astron. Astrophys., 455, 773, Aug. 2006.
vizier.cfa.harvard.edu/viz-bin/VizieR-3