

CGMS XXXII NOAA-WP-19
Prepared by: Weinreb, Schmit & Menzel
Agenda Item: II/2
Discussed in WG II

NOAA BIBLIOGRAPHY OF CALIBRATION PAPERS/REPORTS

This paper is in response to Action 31.25.

NOAA BIBLIOGRAPHY OF CALIBRATION PAPERS/REPORTS

Bremer, J. C., J. G. Baucom, H. Vu, M. P. Weinreb, and N. Pinkine, 1998: Estimation of long-term throughput degradation of GOES 8 & 9 visible channels by statistical analysis of star measurements. *Proc. SPIE*, Vol. **3439**, pp 145–154.

Cao, C. and A. Heidinger, 2002: Inter-comparison of the longwave infrared channels of MODIS and AVHRR/NOAA-16 using simultaneous nadir observations at orbit intersections. *Earth Observing Systems VII, Proceedings of SPIE*, Vol. **4814**.

Cao, C., J. Sullivan, E. Maturi, and J. Sapper, 2003: The effect of orbit drift on the radiometric calibration of the 3.7 μ m channel of the AVHRR onboard NOAA-14 and its impact on night-time sea surface temperature retrievals. *International Journal of Remote Sensing*, in press.

Cao, C., M. Weinreb, and J. Sullivan, 2001: Solar contamination effects on the infrared channels of the Advanced Very High Resolution Radiometer (AVHRR). *Journal of Geophysical Research*, **106**, (D24), pp 33,463-33,469.

Daniels, J. M. and T. J. Schmit, 2001: GOES-11 Science Test: GOES-11 Imager and Sounder Radiance and Product Validations. NOAA Technical Report NESDIS 103, U.S. Department of Commerce, Washington, DC.

Gunshor, M. M., T. J. Schmit, and W. P. Menzel, 1999: Inter-calibration of geostationary (GOES, Meteosat, GMS) and polar-orbiting (HIRS and AVHRR) infrared window radiances. *Report of CGMS XXVII*, held 13 – 19 October 1999 in Beijing, China. EUMETSAT publication.

Gunshor, M. M., T. J. Schmit, and W. P. Menzel, 2000: Intercalibration of geostationary (GOES, Meteosat, GMS) and polar orbiting (HIRS, AVHRR, MODIS) Infrared window and Water Vapor Radiances. *Report of CGMS XXVIII* held 16 – 20 October 2000 in Woods Hole, MA. EUMETSAT publication.

Gunshor, M. M.; T. J. Schmit, and W. P. Menzel, 2001: Intercalibration of geostationary and polar-orbiting infrared window and water vapor radiances. Conference on Satellite Meteorology and Oceanography, 11th, Madison, WI, 15-18 October 2001 (preprints). Boston, MA, American Meteorological Society, 2001, pp442-445.

Gunshor, M. M., T. J. Schmit, and W. P. Menzel, 2001: Intercalibration of Geostationary and Polar Orbiting Infrared Window and Water Vapor Radiances. *Report of CGMS XXIX* held 22 - 25 October 2001 in Capri, Italy. EUMETSAT publication.

Gunshor, M. M., T. J. Schmit, and W. P. Menzel, 2002: Intercalibration of geostationary and polar-orbiting infrared window and water vapor radiances. *Report of CGMS XXX* held 11-15 November 2002 in Bangalore, India. EUMETSAT publication.

Gunshor, M. M., T. J. Schmit, and W. P. Menzel, 2003: New Analysis with the Intercalibration of Geostationary and Polar-Orbiting Radiance Measurements. *Report of CGMS XXXI* held in Ascona, Switzerland, 3-7 November 2003. EUMETSAT publication.

Gunshor, M. M., D. Tobin, T. J. Schmit, and W. P. Menzel, 2003: First satellite intercalibration comparing high spectral resolution AIRS with operational geostationary imagers. 12th Conference on Satellite Meteorology and Oceanography. Long Beach, CA, 9-13 February 2003.

Gunshor, M. M., T. J. Schmit, and W. P. Menzel, 2004: Intercalibration of the Infrared Window and Water Vapor Channels on Operational Geostationary Environmental Satellites Using a Single Polar Orbiting Satellite. *J. Atmos. Oceanic Technol.*, **21**, 61-68.

Heidinger, A., C. Cao, and J. Sullivan, 2002: Using MODIS to calibrate AVHRR reflectance channels, *Journal of Geophysical Research*, **Vol. 107**, No. D23, pp. 4702-4711.

Hillger, D. W., T. J. Schmit, and J. M. Daniels, 2003: Imager and sounder radiance and product validations for the GOES-12 science test, NOAA Technical Report 115, U.S. Department of Commerce, Washington, DC.

Johnson, R.X., and M.P. Weinreb, 1996: GOES-8 Imager Midnight Effects and Slope Correction. In *GOES-8 and Beyond*, Edward R. Washwell, Editor, Proc. Society of Photo-Optical Instrumentation Engineers (SPIE), **2812**, pp. 596-607.

Kidwell, K., Ed., NOAA KLM User's Guide, May 1999, on the Worldwide Web at <http://www2.ncdc.noaa.gov/docs/klm/index.htm>

Mango, S. A., R. E. Murphy, H. Ouaidrari and W. P. Menzel, 2002: NPOESS Preparatory Project (NPP) Instrument Characterization and Calibration, and Product Validation: An Integrated Strategy in Preparation for the NPOESS New Generation of Environmental Satellites. Conference on Optical Remote Sensing of the Atmosphere and Clouds at the SPIE Third International Asia-Pacific Environmental Remote Sensing Symposium 2002 held in Hangzhou, China 23 – 27 October 2002.

Menzel, W. P., W. L. Smith, and L. D. Herman, 1981: Visible Infrared Spin-Scan Radiometer Atmospheric Sounder Radiometric Calibration: An Inflight Evaluation from Intercomparisons with HIRS and Radiosonde Measurements. *Appl. Optics*, Vol. 20, No. 20, 3641-3644.

Menzel, W. P., W. L. Smith, G. S. Wade, L. D. Herman, C. M. Hayden, 1983: Atmospheric Soundings from a Geostationary Satellite. *Appl. Optics*, Vol. 22, No. 17, 2686-2689.

Menzel, W. P., J. Schmetz, S. Nieman, L. van de Berg, V. Gaertner, and T. J. Schmit, 1993: Intercomparison of the Operational Calibration of GOES-7 and Meteosat-3/4. NOAA Technical Memorandum NESDIS 73.

Menzel, W. P., S. Wanzong, S. Nieman, F. Wu, C. Velden, and J. Schmetz, 1994: Comparison of GOES and Meteosat Calibration and Products. 10th Meteosat Scientific Users Conference

held 5-9 September, 1994 in Cascais, Portugal. EUMETSAT publication, 71-82.

Menzel, W. P., S. Wanzong, and J. Schmetz, 1995: Comparison of HIRS, GOES and Meteosat Calibration. *Report of CGMS XXIII* held 15-19 April 1995 in Darmstadt, Germany. CGMS publication, A105-A113.

Menzel, W. P. and S. Wanzong, 1996: Intercomparison of the Spin Scan and Three Axis Stable Geostationary Satellite Infrared Calibrations. *Report of CGMS XXIV* held 22-26 April 1996 in Lauenen, Switzerland. CGMS publication, A76-A81.

Menzel, W. P., Holt, F. C., Schmit, T. J., Aune, R. M., Schreiner, A. J., Wade, G. S., Gray, D. G. 1998: Application of *GOES-8/9* Soundings to Weather Forecasting and Nowcasting. *Bulletin of the American Meteorological Society*: Vol. 79, No. 10, pp. 2059–2078.

Menzel, W. P., J. Schmetz, and M. Tokuno, 1998: Program for Intercalibration of GMS, GOES, and Meteosat, versus HIRS and AVHRR Infrared Radiances. *Report of CGMS XXVI* held 6 – 10 July 1998 in Nikko, Japan. EUMETSAT publication.

Mo, T., 1995: Calibration of the Advanced Microwave Sounding Unit-A for NOAA-K, *NOAA Tech. Report NESDIS 85*, 37 pp.

Mo, T., 1996: Pre-launch calibration of the Advanced Microwave Sounding Unit-A on NOAA-K, *IEEE Trans. on Microwave Theory and Techniques*, **44**, pp. 1460-1469.

Rao, C. R. N., and J. Chen, 1995: Inter-satellite calibration linkages for the visible and near-infrared channels of the Advanced Very High Resolution Radiometer (AVHRR) on the NOAA-7, -9, and -11 spacecraft. *Int. J. Rem. Sens.*, **16**, pp 1931-1942.

Rao, C.R.N., 1999: Post-launch calibration of the visible and near infrared channels of the AVHRR and GOES imager, CGMS XXVII.

Rao, C. R. N., and J. Chen, 1999: Revised post-launch calibration of the visible and near-infrared channels of the Advanced Very High Resolution Radiometer (AVHRR) on the NOAA-14 spacecraft. *Int. J. Rem. Sens.*, **20**, pp 348-3491.

Schmit, T. J. and W. P. Menzel, 1992: GOES/VAS Infrared Calibration. Infrared Radiometric Sensor Calibration Symposium, Logan, UT, September 16, 1992.

Schmit, T. J., 1996: Sounder bias correction of the East-West radiance gradient. SPIE Conference. *GOES-8 & Beyond*. Denver, CO, 4-9 August, 630-637.

Smith, D. L., C. T. Mutlow, and C. R. N. Rao, 2002: Calibration monitoring of the visible and near-infrared channels of the Along-Track Scanning Radiometer-2 by use of stable terrestrial sites. *Applied Optics*, **41**, pp 515-523.

Wanzong, S. and W. P. Menzel, 1997: Intercalibration of GOES, Meteosat, and HIRS Infrared Radiances. *Report of CGMS XXV* held 2 - 6 June in St. Petersburg, Russia. EUMETSAT publication.

Wanzong, S., W. P. Menzel, and G. Callan, 1998: Intercalibration of GOES, Meteosat, GMS, HIRS, and AVHRR infrared radiances. Conf on Satellite Meteorology and Oceanography, held May 25 - 29, 1998 in Paris, France, AMS Publication.

Wanzong, S. and W. P. Menzel, 1998: Intercalibration of GOES, Meteosat, GMS, HIRS, and AVHRR Infrared Radiances. *Report of CGMS XXVI* held 6 – 10 July 1998 in Nikko, Japan. EUMETSAT publication.

Weinreb, M.P., M. Jamieson, N. Fulton, Y. Chen, J.X. Johnson, C. Smith, J. Bremer, and J. Baucom, 1997: Operational calibration of GOES-8 and -9 imagers and sounders, *Applied Optics*, **36**, pp. 6895-6904. (<http://www.nnic.noaa.gov/SOCC/page1.html>.)

Weinreb, M.P., R.X. Johnson, J.G. Baucom, and J.C. Bremer, 1999: GOES 8-10 calibration experience, *Adv. Space Res.*, **23**, pp. 1367-1375.

Wu, X., 2003: Post-launch calibration of GOES Imager visible channel using MODIS. *Proc. ISSSR '03*.

Wu, X., and M. P. Weinreb, 2003: Post-launch calibration of AVHRR and GOES solar channels. *CGMS XXXI*.