

Bibliography from ADS file: chapman.bib

September 14, 2022

- Choudhary, D. P., Chapman, G. A., Cadavid, A. C., & Cookson, A., “*Four Solar Cycle Spectrum Variation of the Sun-as-a-Star*”, 2020AGUFMA227.0008C [ADS](#)
- Chapman, G. A., Choudhary, D. P., & Cookson, A. M., “*The Effect of Sunspot Umbralae on the Total Solar Irradiance*”, 2020AGUFMA227.0007C [ADS](#)
- Choudhary, D. P., Cadavid, A. C., Cookson, A., & Chapman, G. A., “*Variability in Irradiance and Photometric Indices During the Last Two Solar Cycles*”, 2020SoPh..295...15C [ADS](#)
- Cadavid, A. C., Choudhary, D. P., Chapman, G. A., & Cookson, A., “*Temporal relations between total solar irradiance and photometric indices during the last two solar cycles.*”, 2019AGUFMSH11D3391C [ADS](#)
- Chapman, G. A., Cookson, A., & Choudhary, D. P., “*A Comparison of Sunspot and Umbral Area from the San Fernando Observatory and SDO*”, 2016AGUFMSH31B2559C [ADS](#)
- Chapman, G. A. & Choudhary, D. P., “*Modeling SSI Variations using Ground-Based Images from the San Fernando Observatory*”, 2015AGUFMSH32A..05C [ADS](#)
- Woods, T. N., Snow, M., Harder, J., Chapman, G., & Cookson, A., “*A Different View of Solar Spectral Irradiance Variations: Modeling Total Energy over Six-Month Intervals*”, 2015SoPh..290.2649W [ADS](#)
- Woods, T. N., Snow, M., Harder, J., Chapman, G., & Cookson, A., “*A Different View of Solar Spectral Irradiance Variations: Modeling Total Energy of a Solar Outburst Period in 2005 and its Comparison to Solar Cycle 23 and 24 Measured Variability*”, 2015IAUGA..2224203W [ADS](#)
- Prasad Choudhary, D., Cookson, A., Chapman, G., & Yassin, K., “*Observations of the Solar Faculae at San Fernando Observatory and Solar Dynamics Observatory*”, 2015TESS....120314P [ADS](#)
- Muñoz-Jaramillo, A., Senkeil, R. R., Windmueller, J. C., et al., “*Small-scale and Global Dynamos and the Area and Flux Distributions of Active Regions, Sunspot Groups, and Sunspots: A Multi-database Study*”, 2015ApJ...800...48M [ADS](#)
- Chapman, G. A., de Toma, G., & Cookson, A. M., “*An Observed Decline in the Amplitude of Recent Solar-Cycle Peaks*”, 2014SoPh..289.3961C [ADS](#)
- de Toma, G., Chapman, G. A., Cookson, A. M., & Preminger, D., “*Temporal Stability of Sunspot Umbral Intensities: 1986-2012*”, 2013ApJ...771L..22D [ADS](#)
- de Toma, G., Chapman, G. A., Preminger, D. G., & Cookson, A. M., “*Analysis of Sunspot Area over Two Solar Cycles*”, 2013ApJ...770...89D [ADS](#)
- Chapman, G. A., Cookson, A. M., & Preminger, D. G., “*Modeling Total Solar Irradiance with San Fernando Observatory Ground-Based Photometry: Comparison with ACRIM, PMOD, and RMIB Composites*”, 2013SoPh..283..295C [ADS](#)
- Chapman, G. A., Cookson, A. M., & Preminger, D. G., “*Comparison of TSI from SORCE TIM with SFO Ground-Based Photometry*”, 2012SoPh..276...35C [ADS](#)
- Chapman, G., “*Obituary: Earle B. Mayfield (1923-2007)*”, 2011BAAS...43..018C [ADS](#)
- Preminger, D. G., Chapman, G. A., & Cookson, A. M., “*Activity-brightness Correlations for the Sun and Sun-like Stars*”, 2011ApJ...739L..45P [ADS](#)
- Chapman, G. A., Cookson, A. M., & Preminger, D. G., “*Sunspot temperatures from red and blue photometry*”, 2011IAUS..273..325C [ADS](#)
- Chapman, G. A., Cookson, A., & Preminger, D., “*Modeling TSI Variations from SORCE/TIM*”, 2011SPD...42.1814C [ADS](#)
- Preminger, D., Chapman, G., & Cookson, A., “*Activity-brightness Correlations For The Sun And Sun-like Stars*”, 2011SPD...42.1812P [ADS](#)
- Hodgson, John, I., Chapman, G., Preminger, D., & Cookson, A., “*Solar Synoptic Maps from the San Fernando Observatory*”, 2011SPD...42.1722H [ADS](#)
- Chapman, G. A., Dobias, J. J., & Arias, T., “*Facular and Sunspot Areas During Solar Cycles 22 and 23*”, 2011ApJ...728..150C [ADS](#)
- Chapman, G. A., Cookson, A., & Preminger, D., “*Recent Ground-Based Photometry Compared with Space-Based TSI*”, 2010AGUFMG21B0871C [ADS](#)
- Preminger, D., Nandy, D., Chapman, G., & Martens, P. C. H., “*Empirical Modeling of Radiative versus Magnetic Flux for the Sun-as-a-Star*”, 2010SoPh..264...13P [ADS](#)
- Pap, J. M., Jones, H., Parker, D., Chapman, G., & Floyd, L., “*Solar Irradiance Variations Related to Intensity and Magnetic Flux of Solar Features*”, 2010cosp...38.1783P [ADS](#)
- Golimowski, D. A., Cheng, E. S., Loose, M., et al., “*ACS after SM4: On-orbit Verification of the HST Advanced Camera for Surveys Repair*”, 2010AAS...21546209G [ADS](#)
- Pap, J. M., Bertello, L., Chapman, G., et al., “*Comparison of Independent Feature Recognition Method for Time Series Analysis of Irradiance Variations Based on Statistical Feature Recognition*”, 2009SPD....41.0934P [ADS](#)
- Ren, D., Penn, M., Wang, H., Chapman, G., & Plymate, C., “*A portable solar adaptive optics system*”, 2009SPIE.7438E..0PR [ADS](#)
- Parker, D., Preminger, D., Ulrich, R., et al., “*Comparison Of Solar Surface Features Identified By The Autoclass Pattern Recognition Software From Mount Wilson Observatory Data To Solar Surface Feature Areas Measured By The San Fernando Observatory*”, 2009SPD....40.1607P [ADS](#)
- Preminger, D., Nandi, D., Chapman, G., & Martens, P., “*Radiative Vs. Magnetic Flux For The Sun-as-a-star*”, 2009SPD....40.1111P [ADS](#)
- Cookson, A., Preminger, D., & Chapman, G., “*Solar Features Faint but Still Present in 2009*”, 2009SPD....40.1104C [ADS](#)
- Chapman, G. A., Cookson, A., & Preminger, D., “*Solar Cycle 24: Where are you?*”, 2009SPD....40.1101C [ADS](#)
- Zahid, H. J., Chapman, G., Fivian, M. D., & Hudson, H., “*RHESSI Observations of Facular Limb Darkening at 670 nm*”, 2008AGUFMSH23A1623Z [ADS](#)
- Pap, J. M., Bertello, L., Chapman, G., et al., “*Spectral Irradiance Variations and Magnetic Field Changes During Solar Cycle 23.*”, 2008AGUFMSH13A1504P [ADS](#)
- Chapman, G. A., Dobias, J. J., & Walton, S. R., “*On the Variability of the Apparent Solar Radius*”, 2008ApJ...681.1698C [ADS](#)
- Jones, H. P., Chapman, G. A., Harvey, K. L., et al., “*A Comparison of Feature Classification Methods for Modeling Solar Irradiance Variation*”, 2008SoPh..248..323J [ADS](#)
- Wesolowski, M. J., Walton, S. R., & Chapman, G. A., “*The Behavior of Sunspot Contrast during Cycle 23*”, 2008SoPh..248..141W [ADS](#)
- Preminger, D. G. & Chapman, G. A., “*Center-to-Limb Variation of the Irradiance Contributions of Bright Active Regions.*”, 2007AGUFMSH53A1075P [ADS](#)
- Chapman, G. A. & Dobias, J., “*On The Variability Of The Solar Radius*”, 2007AAS...210.2221C [ADS](#)
- Chapman, G. & Monaco, R., “*A Comparison of Sunspot Photometric Indices From Ground-Based Data and MDI/SOHO*”, 2006AGUFMSH41A..05C [ADS](#)
- Chapman, G. A. & Hoffer, A. S., “*The Growth of Facular Area Surrounding Large, Decaying Sunspots*”, 2006SoPh..237..321C [ADS](#)
- Chapman, G. A. & Monaco, R. J., “*A Comparison of Sunspot Photometric Indices from Ground-Based Data and MDI/SOHO*”, 2006SPD....37.0711C [ADS](#)
- Brown, J., Bogdanoff, D., Chapman, G., et al., “*Free-Flight Testing in Support of the Mars Science Laboratory Aerodynamics Database*”, 2006JSpRo..43..293B [ADS](#)
- Sembach, K., Sirianni, M., Arribas, S., et al., “*HST Two-Gyro Mode*”, 2006hstc.conf..375S [ADS](#)
- Jack, M., Bailey, S., Edwards, J., et al., “*Linear Mode Photon Counting LADAR Camera Development for the Ultra-Sensitive Detector Program*”, 2006amas.confE..93J [ADS](#)
- Chapman, G., Cookson, A., Dobias, J., & Walton, S., “*Comparisons between Ground-Based Photometry and Space-Based Measurements of the Total Solar Irradiance*”, 2005AGUFMSH23B..07C [ADS](#)
- Chapman, G. A., Hoffer, A. S., & Walton, S. R., “*On the Facular Area Surrounding Decaying Sunspots*”, 2005SoPh..226..37C [ADS](#)
- Walton, S. R., Preminger, D. G., & Chapman, G. A., “*Implications of Ground Based Photometric Images for Long Term Solar Irradiance Variations*”, 2004AGUFMSH53A0303W [ADS](#)
- de Toma, G., White, O. R., Chapman, G. A., et al., “*Solar Cycle 23: An Anomalous Cycle?*”, 2004ApJ...609.1140D [ADS](#)
- de Toma, G., White, O. R., Chapman, G. A., et al., “*Solar Cycle 23: An Anomalous Cycle?*”, 2004AAS...204.3714D [ADS](#)
- Chapman, G. A., Cookson, A. M., Preminger, D. P., & Walton, S. R., “*The Spots of October 2003: The Largest Irradiance Dip of Cycle 23*”, 2004AAS...204.0214C [ADS](#)
- Chapman, G., Cookson, A., Dobias, J., Preminger, D., & Walton, S., “*Recent Progress in Modeling Variations in TSI*”, 2004cosp...35.3231C [ADS](#)
- Chapman, G. A., Cookson, A. M., Dobias, J. J., Preminger, D. G., & Walton, S. R., “*Photometry of the full solar disk at the San Fernando Observatory*”, 2004AdSpR..34..262C [ADS](#)
- de Toma, G., White, O. R., Chapman, G. A., & Walton, S. R., “*Solar irradiance variability: progress in measurement and empirical analysis*”, 2004AdSpR..34..237D [ADS](#)
- Walton, S. R., Preminger, D. G., & Chapman, G. A., “*Modeling the total solar irradiance: recent progress and new questions*”, 2003ESASP.535..265W [ADS](#)
- Penn, M. J., Cao, W. D., Walton, S. R., Chapman, G. A., & Livingston, W., “*Imaging Spectropolarimetry of Ti I 2231 nm in a Sunspot*”, 2003SoPh..215...87P [ADS](#)
- Penn, M. J., Cao, W. D., Walton, S. R., Chapman, G. A., & Livingston, W., “*Weak Infrared Molecular Lines Reveal Rapid Outflow in Cool Magnetic Sunspot Penumbra Fibrils*”, 2003ApJ...590L.119P [ADS](#)
- Walton, S. R., Preminger, D. G., & Chapman, G. A., “*The Contribution of Faculae and Network to Long-Term Changes in the Total Solar Irradiance*”, 2003ApJ...590.1088W [ADS](#)

- Penn, M. J., Cao, W. D., Walton, S. R., Chapman, G. A., & Livingston, W., "Weak IR Lines Reveal Rapid Outflow in Cool Magnetic Penumbra", 2003SPD...34.1106P [ADS](#)
- Chapman, G. A., Cookson, A. M., Walton, S. R., & Smith, C., "A Comparison of Summed Continuum and CaII K-line Images", 2003SPD...34.0707C [ADS](#)
- Walton, S. R., Preminger, D. G., Chapman, G. A., & Cookson, A. M., "Photospheric Line Equivalent Widths in Calcium K Faculae", 2003SPD...34.0706W [ADS](#)
- Walton, S. R., Preminger, D. G., & Chapman, G. A., "A Statistical Analysis of the Characteristics of Sunspots and Faculae", 2003SoPh..213..301W [ADS](#)
- Penn, M. J., Walton, S., Chapman, G., Ceja, J., & Plick, W., "Temperature Dependence of Molecular Line Strengths and Fe i 1565 nm Zeeman Splitting in a Sunspot", 2003SoPh..213..55P [ADS](#)
- Chapman, G. A., Dobias, J. J., Preminger, D. G., & Walton, S. R., "On the decay rate of sunspots", 2003GeoRL..30.1178C [ADS](#)
- Chapman, G. A., Walton, S. R., Cookson, A. M., Dobias, J. J., & Preminger, D. G., "Modeling the Variations in TSI Using Precision Ground-Based Photometric Images", 2002AGUFMSH21B..01C [ADS](#)
- Preminger, D. G., Walton, S. R., & Chapman, G. A., "Photometric quantities for solar irradiance modeling", 2002JGRA..107.1354P [ADS](#)
- Chapman, G. A., "A Study of AR 9144; A Fast-Growing EFR", 2002SoPh..209..141C [ADS](#)
- Dobias, J. J., Chapman, G. A., Cookson, A. M., Preminger, D. G., & Walton, S. R., "Growth and Decay of Solar Active Regions", 2002AAS...200.5710D [ADS](#)
- Walton, S. R., Preminger, D. G., & Chapman, G. A., "The Contribution of Faculae and Network to Long Term Changes in the Total Solar Irradiance", 2002AAS...200.5709W [ADS](#)
- White, O. R., de Toma, G., Chapman, G. A., et al., "Solar Irradiance Observations during Solar Cycles 22 and 23", 2002AAS...200.5707W [ADS](#)
- Chapman, G. A., Cookson, A. M., Dobias, J. J., & Walton, S. R., "Further Studies of the Bolometric Contrast of Sunspots", 2002AAS...200.3806C [ADS](#)
- de Toma, G., White, O., Chapman, G., & Walton, S., "Solar irradiance variability: current questions and the need for improved accuracy and precision", 2002cosp...34E1106D [ADS](#)
- Chapman, G., Cookson, A., Dobias, J., Preminger, D., & Walton, S., "Results from a Program of Full Disk Solar Photometry", 2002cosp...34E.669C [ADS](#)
- Chapman, G. & Walton, S., "Obituary: Adrian D. Herzog", 2001BAAS...33.1568C [ADS](#)
- Pap, J. M., Arge, N., Chapman, G., Floyd, L. E., & Turmon, M., "Effect of Magnetic Fields on Solar Irradiance Variations", 2001AGUFMSH11C0731P [ADS](#)
- Chapman, G. A., Walton, S. R., deToma, G., & White, O. R., "Comparison of Solar Photometric Data from Two Telescopes", 2001AAS...199.8804C [ADS](#)
- Preminger, D. G., Walton, S. R., & Chapman, G. A., "Solar Feature Identification using Contrasts and Contiguity", 2001SoPh..202..53P [ADS](#)
- Chapman, G. A., Cookson, A. M., Dobias, J. J., & Walton, S. R., "An Improved Determination of the Area Ratio of Faculae to Sunspots", 2001ApJ...555..462C [ADS](#)
- Chapman, G. A., Cookson, A. M., Dobias, J. J., & Walton, S. R., "The Decline of Solar Cycles 22 and 23 Compared", 2001AGUSM..SP31B07C [ADS](#)
- Chapman, G. A. & Walton, S. R., "Sunspot Areas Compared by Hemisphere", 2001AGUSM..SP31B03C [ADS](#)
- Walton, S. R., Preminger, D. G., & Chapman, G. A., "Thousands of Faculae Can't be Wrong", 2001AGUSM..SP21A04W [ADS](#)
- Chapman, G. A., Lawrence, J. K., & Walton, S. R., "Rotation of CaII K-line Faculae in Solar Cycles 22 and 23", 2001AAS...198.7103C [ADS](#)
- de Toma, G., White, O. R., Chapman, G. A., et al., "Differences in the Sun's Radiative Output in Cycles 22 and 23", 2001ApJ...549L.131D [ADS](#)
- Chapman, G., "Solar Photosphere: Faculae", in P. Murdin (Ed.), Encyclopedia of Astronomy and Astrophysics, 2253 2000eaa..bookE2253C [ADS](#)
- de Toma, G., White, O. R., Chapman, G. A., Walton, S. R., & Harvey, K. L., "Global Solar Variability: Cycle 23 Indicates a Change from Recent Cycles", 2000SPD....3102115D [ADS](#)
- White, O. R., de Toma, G., Chapman, G. A., et al., "Differences in the Sun's Radiative Output in Cycles 22 and 23", 2000SPD....31.0127W [ADS](#)
- Chapman, G. A., Cookson, A. M., & Dobias, J. J., "New Measurements of the Ratio of Facular to Sunspot Area", 2000SPD....31.0126C [ADS](#)
- Ahern, S. & Chapman, G. A., "An analysis of full-disk observations of facular contrast in the blue and red", 2000SoPh..191..71A [ADS](#)
- Chapman, G. A., Cookson, A. M., Dobias, J. J., & Walton, S. R., "A Search For Variations in the Solar Radius", 1999AAS...194.9302C [ADS](#)
- Chapman, G. A., "Doppler Patterns Associated with Emerging Flux Regions", 1998SoPh..183...15C [ADS](#)
- Walton, S. R., Chapman, G. A., Cookson, A. M., Dobias, J. J., & Preminger, D. G., "Processing Photometric Full-Disk Solar Images", 1998SoPh..179...31W [ADS](#)
- Chapman, G. A. & Walton, S. R., "Precision Ground-Based Photometry from Full-Disk Images", 1998sers.conf..437C [ADS](#)
- Chapman, G. A., "Diachronic Photometric Full-Disk Solar Images", 1998ASPC..140..237C [ADS](#)
- Chapman, G., Cookson, A., Dobias, J., & Walton, S., "Variations in the Solar Radius during Solar Cycle 22", 1997AAS...19112001C [ADS](#)
- Walton, S. R. & Chapman, G. A., "A New Data System for the San Fernando Observatory Video Spectra-Spectroheliograph", 1997AAS...191.7410W [ADS](#)
- Chapman, G. A., Cookson, A. M., & Dobias, J. J., "Solar Variability and the Relation of Facular to Sunspot Areas during Solar Cycle 22", 1997ApJ...482..541C [ADS](#)
- Chapman, G. A. & Ahern, S., "An Analysis of the Blue and Red Contrasts of Photospheric Faculae", 1997SPD....28.1403C [ADS](#)
- Walton, S. R., Chapman, G. A., Cookson, A. M., Dobias, J. J., & Preminger, D. G., "Processing Photometric Full-Disk Solar Images", 1997SPD....28.0222W [ADS](#)
- Ruzmaikin, A. A., Cadavid, A. C., Chapman, G. A., Lawrence, J. K., & Walton, S. R., "Spectral Properties of Solar Convection and Diffusion", 1996ApJ...471.1022R [ADS](#)
- Chapman, G. A. & Ziegler, B., "An analysis of 1983 Observations of Facular Contrast with an Extreme Limb Photometer", 1996SoPh..168..259C [ADS](#)
- Walton, S. R. & Chapman, G. A., "The San Fernando Observatory Video Spectra-Spectroheliograph", 1996SoPh..166..267W [ADS](#)
- Chapman, G. A., Cookson, A. M., & Dobias, J. J., "Variations in total solar irradiance during solar cycle 22", 1996JGR...10113541C [ADS](#)
- Chapman, G. A. & Walton, S. R., "Downflows in a Large EFR", 1996AAS...188.7904C [ADS](#)
- Cadavid, A. C., Chapman, G. A., Lawrence, J. K., Ruzmaikin, A. A., & Walton, S. R., "Spectral Properties of the Solar Background Velocity Field", 1996AAS...188.3506C [ADS](#)
- Chapman, G. A., Cookson, A. M., & Dobias, J. J., "Modelling Variations in Total Solar Irradiance during Cycle 22", 1995AAS...18712201C [ADS](#)
- Chapman, G., Whittenberg, K., Hathaway, W., & Ready, C., "Observing with HST I: A Proposal's Journey from Submission to Data Receipt", 1995AAS...187.3901C [ADS](#)
- Chapman, G. A. & Walton, S. R., "Downflows Associated with an Emerging Flux Region", 1995SPD....26..203C [ADS](#)
- Ruzmaikin, A. A., Cadavid, A. C., Chapman, G. A., Lawrence, J. K., & Walton, S. R., "Spectra of Solar Magnetic Fields and Diffusion", 1995ASPC...76..292R [ADS](#)
- Chapman, G. A., Cookson, A. M., & Dobias, J. J., "On the Ratio of Facular Area to Sunspot Area", 1994AA...18512305C [ADS](#)
- Walton, S. R., Chapman, G. A., & Jayasinha, Y., "Correlations Between Full Disk Magnetograms and Solar Contrast", 1994AA...185.4410W [ADS](#)
- Chapman, G. A., Cookson, A. M., & Dobias, J. J., "Observations of Changes in the Bolometric Contrast of Sunspots", 1994ApJ...432..403C [ADS](#)
- Chapman, G. A., Cookson, A. M., & Hoyt, D. V., "Solar irradiance from Nimbus-7 compared with ground-based photometry", 1994SoPh..149..249C [ADS](#)
- Chapman, G. A., "Photometric Observations of the Sun", 1994svsp.coll..117C [ADS](#)
- Chapman, G. A. & Walton, S. R., "Flows in active regions: penumbral, super-penumbral and Evershed", 1994smf..conf..216C [ADS](#)
- Chapman, G. A. & Walton, S. R., "Observations of Flows around Sunspot Groups", 1994ASPC...68..283C [ADS](#)
- Walton, S. R., Corbin, K. H., & Chapman, G. A., "A Possible Siphon Flow Associated with Emergence of New Flux", 1994ASPC...68..75W [ADS](#)
- Walton, S. R., Chapman, G. A., Cookson, A. M., & Preminger, D., "Scattered Light in Solar Images using Hankel Transforms", 1993AAS...183.5908W [ADS](#)
- Chapman, G. A., Cookson, A. M., & Dobias, J. J., "Changes in the Bolometric Contrast of Sunspots", 1993AA...183.2509C [ADS](#)
- Beck, J. G. & Chapman, G. A., "A Study of the Contrast of Sunspots from Photometric Images", 1993SoPh..146..49B [ADS](#)
- Corbin, K. H., Walton, S. R., & Chapman, G. A., "Association of a Siphon Flow with the Emergence of New Flux", 1993BAAS...25.1217C [ADS](#)
- Jones, H., Bogart, R., Canfield, R., et al., "A Magnetograph Comparison Workshop", 1993BAAS...25.1216J [ADS](#)
- Walton, S. R., Bogart, R. S., Chapman, G. A., et al., "Intercomparison of Seven Magnetographs", 1993BAAS...25.1205W [ADS](#)
- Chapman, G. A., Noci, G., & Rickard, J. J., "The Field of Solar Physics - Review and Recommendations for Groundbased Solar Research", 1992SoPh..142..415C [ADS](#)

- Chapman, G. A., Cookson, A. C., & Dobias, J. J., "Observations of Changes in Sunspot Cooling", 1992AAS...181.9405C [ADS](#)
- Chapman, G. A., Lawrence, J. K., & Hudson, H. S., "Photometric Measurements of Sunspots Deficits and Facular Excesses", 1992sers.conf..135C [ADS](#)
- Chapman, G. A., Herzog, A. D., Lawrence, J. K., et al., "Precise ground-based solar photometry and variations of total irradiance", 1992JGR....97.8211C [ADS](#)
- Walton, S. R., Chapman, G. A., & David, R. S., "Doppler and Magnetic Studies of the Flare-Producing Area of NOAA 6659", 1992AAS...180.5102W [ADS](#)
- Chapman, G. A. & Walton, S. R., "Sunspot Deficits Measured With a New, 3-inch Full Disk Photometric Telescope", 1992AAS...180.1706C [ADS](#)
- Chapman, G. A. & Hoyt, D. V., "Ground-Based Photometry and Interpolated Nimbus - 7 Total Solar Irradiance", 1991BAAS...23.1442C [ADS](#)
- Lawrence, J. K., Chapman, G. A., & Walton, S. R., "Weak Magnetic Fields and Solar Irradiance Variations", 1991ApJ...375..771L [ADS](#)
- Chapman, G. A., Lawrence, J. K., & Hudson, H. S., "Total Solar Irradiance Variations Compared with Ground-Based Photometry at the SFO", 1991BAAS...23.1067C [ADS](#)
- Swearingen, D. J., Walton, S. R., Chapman, G. A., & Lawrence, J. K., "Continuum Contrast and Center to Limb Variation of Solar Magnetic Elements Observed in the Photosphere", 1991BAAS...23..960S [ADS](#)
- Lawrence, J. K., Chapman, G. A., Herzog, A. D., et al., "Ground-Based Modelling of Solar Irradiance Variations", 1991BAAS...23..960L [ADS](#)
- Chapman, G. A. & Walton, S. R., "Recent results from the San Fernando Observatory video spectra-spectroheliograph.", 1991sopo.work...37C [ADS](#)
- Lawrence, J. K. & Chapman, G. A., "Photometric Observations of the Energetics of Small Solar Active Regions", 1990ApJ...361..709L [ADS](#)
- Chapman, G. A., Herzog, A. D., Lawrence, J. K., & Walton, S. R., "A program of photometric measurements of solar irradiance fluctuations from ground-based observations.", 1990NASCP3086...16C [ADS](#)
- Chapman, G. A., Herzog, A. D., Lawrence, J. K., et al., "Solar Variability Measured by SMM/ACRIM Compared with Ground-Based Photometry", 1990BAAS...22..897C [ADS](#)
- Lawrence, J. K., Chapman, G. A., & Walton, S. R., "Continuum Contrast of Photospheric Faculae Compared to their Magnetic Flux", 1990BAAS...22..839L [ADS](#)
- Wilson, R. J., Walton, S. R., & Chapman, G. A., "The Relation Between Irradiance Excess and Magnetic Field for the Sun", 1990BAAS...22..793W [ADS](#)
- Chapman, G. A., "Book-Review - Solar and Middle Atmosphere Variability", 1989Sci...246..246C [ADS](#)
- Walton, S. R., Wilson, R. J., & Chapman, G. A., "Comparison of SFO Full-Disk Photometric Images with NSO Full-Disk Magnetograms", 1989BAAS...21.1179W [ADS](#)
- Lawrence, J. K., Chapman, G. A., & Herzog, A. D., "Photometric Observations of Net Energy Excesses in Small Solar Active Regions", 1989BAAS...21.1179L [ADS](#)
- Chapman, G. A. & Walton, S. R., "Preliminary Results from the Video Spectra-Spectro-Heliograph at the San Fernando Observatory", 1989BAAS...21.1179C [ADS](#)
- Herzog, A. D., Chapman, G. A., & Glucszak, M., "Comparison of Sunspot Areas from the San Fernando Observatory's Cartesian Full Disk Telescope and Rotating Full Disk Photometer", 1989BAAS...21.1110H [ADS](#)
- Chapman, G. & Walton, S., "A Video Spectra - Spectroheliograph ($V S^2 HG$) on the San Fernando Observatory", 1989hsrs.conf..402C [ADS](#)
- Chapman, G. A., Herzog, A. D., Laico, D. E., Lawrence, J. K., & Templer, M. S., "Photometric Measurements of Solar Irradiance Variations Due to Sunspots", 1989ApJ...343..547C [ADS](#)
- Davis, G. & Chapman, G. A., "Sunspot Deficits for 1985 Determined with a 2.5cm telescope and Linear Diode Array", 1989BAAS...210.842D [ADS](#)
- Chapman, G. A., Herzog, A. D., & Walton, S. R., "Magnetic Field Strengths from a Digital Magnetogram compared with those from Video Spectra-Spectroheliograms (VSSHG)", 1989BAAS...21..862C [ADS](#)
- Walton, S. R. & Chapman, G. A., "Magnetic Fields from Video Spectra-Spectroheliograms: A Test of the Center of Gravity Method", 1989BAAS...21..854W [ADS](#)
- Priest, E. R., Gaizauskas, V., Hagyard, M. J., et al., "Preflare activity.", 1989epos.conf...1P [ADS](#)
- Lawrence, J. K. & Chapman, G. A., "Photometric Observations of Facular Contrasts near the Solar Limb", 1988ApJ...335..996L [ADS](#)
- Chapman, G. A. & Oseas, J. M., "Observations from 1982 OF Facular Limb Darkening and Excess Solar Oblateness", 1988SoPh..116..215C [ADS](#)
- Chapman, G. A., Walton, S. R., Bird, M., et al., "Full Disk Call K-line Observations of the Sun with a One-Inch Telescope (CFDT)", 1988BAAS...20..910C [ADS](#)
- Walton, S. R., Chapman, G. A., Herzog, A. D., et al., "Observations of NOAO 4835 Using the SFO RFDP", 1988BAAS...20..680W [ADS](#)
- Lawrence, J. K., Chapman, G. A., & Herzog, A. D., "Photometric Determination of Facular Contrasts near the Solar Disk Center", 1988ApJ...324.1184L [ADS](#)
- Chapman, G. A., "Modelling of total solar irradiance variability from ground-based observations", 1988AdSpR...8g..21C [ADS](#)
- Chapman, G. A., "Solar and middle atmosphere variability", 1988AdSpR...8g....C [ADS](#)
- Lawrence, J. K. & Chapman, G. A., "Photometric Facular Contrasts Near the Extreme Solar Limb", 1987BAAS...19R1132L [ADS](#)
- Walton, S. R., Chapman, G. A., Herzog, A. D., Glusczak, M. R., & Klein, M. L., "Analysis of SFO RFDP Observations of Active Regions", 1987BAAS...19.1132W [ADS](#)
- Herzog, A. D., Chapman, G. A., Walton, S. R., Glusczak, M. R., & Klein, M. L., "Simultaneous Observations of Active Regions", 1987BAAS...19.1118H [ADS](#)
- Chapman, G. A., Johnson, L., & Herzog, A. D., "Sunspot Areas from a Small Photometric Telescope", 1987BAAS...19..941C [ADS](#)
- Laico, D. E., Chapman, G. A., & Herzog, A. D., "An Analysis and Comparison of Sunspot Areas and Irradiance Deficits", 1987BAAS...19..926L [ADS](#)
- Chapman, G. A., "Solar variability due to sunspots and faculae.", 1987JGR....92..809C [ADS](#)
- Chapman, G. A., "Variations of solar irradiance due to magnetic activity.", 1987ARA&A..25..633C [ADS](#)
- Hagyard, M. J., Gaizauskas, V., Chapman, G. A., et al., "Preflare magnetic and velocity fields", 1986epos.conf.1.16H [ADS](#)
- Chapman, G. A., Corbin, M., Johnson, L., Klein, M., & Martínez, C., "A Comparison of ACRIM Irradiance and Digital Sunspot Areas", 1986BAAS...18Q.933C [ADS](#)
- Herzog, A. D. & Chapman, G. A., "High Resolution Photometry of Solar Active Regions", 1986BAAS...18..900H [ADS](#)
- Chapman, G. A. & Boyden, J. E., "Solar Irradiance Variations Derived from Magnetograms", 1986ApJ...302L..71C [ADS](#)
- Chapman, G. A., Herzog, A. D., & Lawrence, J. K., "Time-integrated energy budget of a solar activity complex", 1986Natur.319..654C [ADS](#)
- Chapman, G. A. & Meyer, A. D., "Solar Irradiance Variations from Photometry of Active Regions", 1986SoPh..103..21C [ADS](#)
- Priest, E. R., Gaizauskas, V., Hagyard, M. J., et al., "Preflare activity.", 1986NASCP2439...1P [ADS](#)
- Chapman, G. A., Herzog, A. D., & Lin, H., "A digital analysis of sunspot areas.", 1986BAAS...18..853C [ADS](#)
- Chapman, G. A., Herzog, A. D., & Templer, S., "A Two-Dimensional Solar Photometer Scanned by The Earth's Rotation", 1985BAAS...17..896C [ADS](#)
- Herzog, A. D., Chapman, G. A., Lawrence, J. K., & Templer, S., "The Rotating Full Disk Reticon Photometer at the San Fernando Observatory", 1985BAAS...17..833H [ADS](#)
- Schatten, K. H., Miller, N., Sofia, S., Endal, A. S., & Chapman, G., "The importance of improved facular observations in understanding solar constant variations", 1985ApJ...294..689S [ADS](#)
- Lawrence, J. K., Chapman, G. A., Herzog, A. D., & Shelton, J. C., "Solar luminosity fluctuations during the disk transit of an active region", 1985ApJ...292..297L [ADS](#)
- Chapman, G. A. & Boyden, J. E., "Solar Irradiance Variations Derived from MT. Wilson Observatory Daily Magnetograms", 1985BAAS...17Q.640C [ADS](#)
- Oseas, J. & Chapman, G. A., "Preliminary Results from the Extreme Limb Photometer 1982 and 1983 Observing Seasons", 1985BAAS...17..6390 [ADS](#)
- Lawrence, J. K., Chapman, G. A., & Herzog, A. D., "On the Possibility of Energy Balance Over the Lifetime of a Solar Activity Complex", 1985BAAS...17..610L [ADS](#)
- Chapman, G. A., "On the Energy Balance of Solar Active Regions", 1985spit.conf..342C [ADS](#)
- Chapman, G. A., Herzog, A. D., & Lawrence, J. K., "Observations concerning energy balance in solar magnetic regions.", 1984ESASP.220..241C [ADS](#)
- Herzog, A. D., Mason, S. F., Chapman, G. A., & Lawrence, J. K., "Preliminary Analysis of Multi-color Reticon Data at the San Fernando Observatory", 1984BAAS...16.1001H [ADS](#)
- Chapman, G. A., Herzog, A. D., Lawrence, J. K., & Shelton, J. C., "Observations Concerning the Energy Budget of a Solar Activity Complex", 1984BAAS...16..991C [ADS](#)
- Chapman, G. A., Herzog, A. D., Lawrence, J. K., & Shelton, J. C., "Solar luminosity fluctuations and active region photometry", 1984ApJ...282L..99C [ADS](#)
- Chapman, G. A., Herzog, A. D., Lawrence, J. K., et al., "Preliminary Observations on the Energy Budget of a Solar Activity Complex, July-Sept. 1982", 1984BAAS...16..729C [ADS](#)
- Hudson, H. S., Chapman, G. A., & LaBonte, B. J., "A Global Irradiance Program", 1984NASCP2310..313H [ADS](#)

- Chapman, G., "What are Faculae", 1984NASCP2310..149C [ADS](#)
- Lawrence, J. K., Chapman, G. A., Herzog, A. D., & Shelton, J. C., "Two-dimensional photometry of active regions.", 1984NASCP2310..91L [ADS](#)
- Chapman, G. A., "Ground-based measurements of solar irradiance variations.", 1984NASCP2310..73C [ADS](#)
- , "Solar Irradiance Variations on Active Region Time Scales", 1984NASCP2310.....L [ADS](#)
- Chapman, G. A. & Gingell, T. W., "Center-to-limb variations in the two-dimensional contrast of photospheric faculae", 1984SoPh...91..243C [ADS](#)
- Chapman, G. A. & Groisman, G., "A Digital Analysis of Sunspot Areas", 1984SoPh...91...45C [ADS](#)
- Chapman, G. A., "On the energy balance of solar active regions", 1984Natur.308..252C [ADS](#)
- Labonte, B. J., Chapman, G. A., Hudson, H. S., et al.: 1984, *Solar irradiance variations on active region time scales. Proceedings of a workshop held at the California Institute of Technology, Pasadena, California, June 20 - 21, 1983.* 1984sivo.book.....L [ADS](#)
- Lawrence, J. K., Chapman, G. A., & Herzog, A. D., "Properties of flares observed in the Mg i b₂ line at 5172 Å", 1983SoPh...89..341L [ADS](#)
- Herzog, A. D., Chapman, G. A., Lawrence, J. K., & Shelton, J. C., "Irradiance Measurement of Big Bear Active Region #511", 1983BAAS...15R.973H [ADS](#)
- Lawrence, J. K., Chapman, G. A., Herzog, A. D., & Shelton, J. C., "Stray Light Corrections in Two-Dimensional Solar Photometry", 1983BAAS...15..951L [ADS](#)
- Chapman, G. A., Herzog, A. D., Lawrence, J. K., & Shelton, J. C., "Observed Energy Balance of Active Region 18511, August 1982", 1983BAAS...15..950C [ADS](#)
- Osherovich, V. A., Chapman, G. A., & Fla, T., "Magnetohydrostatic model of solar faculae", 1983ApJ...268..4120 [ADS](#)
- Chapman, G. A., Herzog, A. D., Lawrence, J. K., & Shelton, J. C., "Two-Dimensional Photometry of Active Region BBSO No. 18511", 1983BAAS...15R.717C [ADS](#)
- Chapman, G. A. & Meyer, A. D., "Active Region Photometry Compared to Plage and Sunspot Areas", 1983BAAS...15..719C [ADS](#)
- Lawrence, J. K., Chapman, G. A., & Herzog, A. D., "Properties of Flares Observed in the MgI b₂ Line at 5172 Å", 1983BAAS...15..697L [ADS](#)
- Chapman, G.: 1983, *A study of the magnetic evolution of active regions and its relation to solar flares*, Final Report, 21 Apr. 1981 - 20 Jul. 1982 California State Univ., Northridge. 1983ucnr.rept.....C [ADS](#)
- Chapman, G. A. & Klabunde, D. P., "Measurements of the limb darkening of faculae near the solar limb", 1982ApJ...261..387C [ADS](#)
- Lawrence, J. K., Chapman, G. A., & Herzog, A. D., "Observations of Solar Flare Emission in the MgIb₂ Line at 5172 Å", 1982BAAS...14..898L [ADS](#)
- Chapman, G. A., Groisman, G., Herzog, A. D., et al., "Active Region Photometry and Solar Variability", 1982BAAS...14..865C [ADS](#)
- Chapman, G. A. & Meyer, A. D., "Comparison of estimated and observed active region intensity balance.", 1982BAAS...14..573C [ADS](#)
- Chapman, G. A.: 1981, *Continued analysis of OSO-8 and Kitt Peak data on solar faculae*, Final Technical Report, 1 Jun. 1978 - 30 Nov. 1979 California State Univ., Northridge. 1981ucnr.rept.....C [ADS](#)
- Mayfield, E. B. & Chapman, G. A., "Magnetic flux changes associated with the solar flares of August 1972", 1981SoPh...70..351M [ADS](#)
- Willson, R. C., Gulkis, S., Janssen, M., Hudson, H. S., & Chapman, G. A., "Observations of Solar Irradiance Variability", 1981Sci...211..700W [ADS](#)
- Chapman, G. A., "Active regions from the photosphere to the chromosphere.", 1981sars.work...43C [ADS](#)
- Chapman, G. A. & Meyer, A. D., "Observations of the wavelength dependence of the average contrast of sunspots", 1981phss.conf..446C [ADS](#)
- Meyer, A. D. & Chapman, G. A., "Sunspots and the solar constant.", 1981BAAS...13..491M [ADS](#)
- Chapman, G. A., Thorman, S. C., & Lawrence, J. K., "Magnetic field evolution observed in conjunction with SMM, 19 - 26 June 1980.", 1981BAAS...13..491C [ADS](#)
- Chapman, G. A., "Variations in the solar constant due to solar active regions", 1980ApJ...242L..45C [ADS](#)
- Mouradian, Z., Chapman, G., Dumont, S., et al., "The Magnetic Field Flux in Facular Regions", 1980jfss.conf..121M [ADS](#)
- Mayfield, E. B. & Chapman, G. A., "Magnetic Flux Changes Associated with the Solar Flares of August 1972", 1979BAAS...11..677M [ADS](#)
- Chapman, G. A. & Klabunde, D. P., "On the Contrast of Faculae near the Solar Limb", 1979BAAS...11..658C [ADS](#)
- Chapman, G. A., "New models of solar faculae.", 1979ApJ...232..923C [ADS](#)
- Chapman, G. A., "Variations in the Solar Brightness due to Active Regions", 1979BAAS...11..422C [ADS](#)
- Chapman, G. A. & McGuire, T. E., "The wavelength dependence of the facular excess brightness.", 1977ApJ...217..657C [ADS](#)
- Chapman, G. A. & Broussard, R. M., "Bright X-ray arcs and the emergence of solar magnetic flux.", 1977ApJ...216..940C [ADS](#)
- Heasley, J. N., Kneer, F., & Chapman, G. A., "The effects of partial redistribution on facular K line profiles.", 1977SoPh...52..309H [ADS](#)
- Chapman, G. A. & McGuire, T. E., "The Wavelength Dependence of the Facular Excess Brightness.", 1977BAAS....9..357C [ADS](#)
- Sheeley, N. R., J., Kane, S. R., Vorpal, J. A., & Chapman, G. A., "Observations During the Impulsive Phase of the August 7, 1973, Solar Flare.", 1977BAAS....9..311S [ADS](#)
- Chapman, G. A. & Sheeley, N. R., J., "An improved measurement of a spectrogram of a 'gap'.", 1977SoPh...51..61C [ADS](#)
- Chapman, G. A., "Facular models, the K-line, and magnetic fields.", 1977IAUS...62..261C [ADS](#)
- Chapman, G. A., "Facular line profiles and facular models", 1977ApJS...33..35C [ADS](#)
- Chapman, G. A., "Facular line profiles and facular models.", 1977A&S...33..35C [ADS](#)
- Chapman, G. A. & Broussard, R. M., "Bright X-Ray Arcs and the Emergence of Solar Magnetic Flux", 1976BAAS....8Q.317C [ADS](#)
- Underwood, J. H., Chapman, G. A., Janssens, T. J., et al., "Preliminary results from the S-056 X-ray telescope experiment aboard the Skylab-Apollo Telescope Mount", 1976skls.conf..179U [ADS](#)
- Chapman, G. A., "Measurements of excess brightness from solar faculae and the implication for solar oblateness.", 1975NYASA.262..481C [ADS](#)
- Ingersoll, A. P. & Chapman, G. A., "Temperature Variation with Latitude in the Upper Solar Photosphere: Relevance to Solar Oblateness Measurements and Facular Models", 1975SoPh...42..279I [ADS](#)
- Chapman, G. A., "Facular Models and Line Profiles.", 1975BAAS...7..449C [ADS](#)
- Lynch, D. K. & Chapman, G. A., "Solar granulation and oscillations as spatially random processes.", 1975ApJ...197..241L [ADS](#)
- Chapman, G. A., "Recent Measurements of the Flux Excess from Solar Faculae and the Implication for the Solar Oblateness", 1975PhRvL..34..755C [ADS](#)
- Chapman, G. A., "A Photometer for Measuring the Brightness of Features Near the Extreme Solar Limb", 1975BAAS....7..351C [ADS](#)
- Chapman, G. A., "Time-Averaged Observations of the Sun with a 3840 Å Filter", 1974SoPh...37..151C [ADS](#)
- Chapman, G. A., "On the Nature of the Small-Scale Solar Magnetic Field", 1974ApJ...191..255C [ADS](#)
- Vrabec, D. & Chapman, G. A., "Relationships Between MMF Trajectories and Sunspot Penumbral Filament Structure", 1974BAAS....6T.296V [ADS](#)
- Janssens, T. J., Chapman, G. A., de Loach, A. C., et al., "Solar X-ray Features and Events", 1974BAAS...6Q.289J [ADS](#)
- Chapman, G. A., "Preliminary Results Using a MgI b-Line Filter to Photography the Photospheric Network", 1974BAAS...6Q.285C [ADS](#)
- Chapman, G. A. & Ingersoll, A. P., "Faculae and the '25-day' Solar Fluctuation", 1973NPhS..246..68C [ADS](#)
- Chapman, G. A. & Ingersoll, A. P., "Photospheric Faculae and the Solar Oblateness: a Reply to "faculae and the Solar Oblateness" by R. H. Dicke", 1973ApJ...183..1005C [ADS](#)
- Shimabukuro, F. I., Chapman, G. A., Mayfield, E. B., & Edelson, S., "On the Source of the Slowly Varying Component at Centimeter and Millimeter Wavelengths", 1973SoPh...30..163S [ADS](#)
- Chapman, G. A., "Recent Observations of the Sun with a 3840 Å Filter", 1973BAAS...5Q.270C [ADS](#)
- Chapman, G. A. & Ingersoll, A. P., "Faculae and the Solar Oblateness: A Summary", 1973NYASA.224..306C [ADS](#)
- Chapman, G. A., "Time-Averaged Spectroheliograms", 1972SoPh...26..299C [ADS](#)
- Chapman, G. A. & Ingersoll, A. P., "Photospheric Faculae and the Solar Oblateness", 1972ApJ...175..819C [ADS](#)
- Chapman, G. A., "Magnetic Fields and Helium-D₃ Spectroheliograms", 1972SoPh...24..288C [ADS](#)
- Shimabukuro, F. I., Chapman, G. A., Edelson, S., & Mayfield, E. B., "On the Source of the Slowly Varying Component at Centimeter and Millimeter Wavelengths", 1972BAAS....4S.391S [ADS](#)
- Chapman, G. A. & Ingersoll, A. P., "Photospheric Faculae and the Solar Oblateness", 1972BAAS....4S.379C [ADS](#)
- Gilmore, A. C., Millington, R. E., & Chapman, G. A., "Nova in Large Magellanic Cloud.", 1972IAUC.2449....1G [ADS](#)
- Mayfield, E. B., Chapman, G. A., & Straka, R. M., "Eclipse of Radio Emission on 7 March, 1970 at 10 cm Wavelength from the Active Region Associated with McMath Plage 10618 (Papers presented at the Proceedings of the International Symposium on the 1970 Solar Eclipse, held in Seattle, U. S. A., 18-21 June, 1971)", 1971SoPh...21..460M [ADS](#)

- Chapman, G. A., “*Fraunhofer-line weakening in solar faculae.*”, 1971BAAS....3R.260C [ADS](#)
- Bell, C. J., Bray, A. D., Brownlee, R. G., et al., “*The Energy Spectrum from 5×10^{16} to 10^{21} eV*”, 1971ICRC....3..989B [ADS](#)
- Chapman, G. A., “*On the Physical Conditions in the Photospheric Network: An Improved Model of Solar Faculae*”, 1970SoPh...14..315C [ADS](#)
- Chapman, G. A., “*A New Model of Photospheric Faculae*”, 1970BAAS....2Q.303C [ADS](#)
- Chapman, G. A., “*An Interference Filter for Observing the Photospheric Network*”, 1970SoPh...13..78C [ADS](#)
- Gainsford, M. J., Hollis, A. J., Carter, B. A., et al., “*Miscellanea.*”, 1970Astr....7..42G [ADS](#)
- Stockton, A. & Chapman, G., “*On the Motions of Gas and Dust in NGC 2068*”, 1970PASP...82..306S [ADS](#)
- Chapman, G. A. & Sheeley, N. R., J., “*The Photospheric Network*”, 1968SoPh....5..442C [ADS](#)
- Chapman, G. A.: 1968, “*Local Weaknings of Fraunhofer Lines on the Solar Disk.*”, *Ph.D. thesis*, University of Arizona 1968PhDT.....6C [ADS](#)
- Chapman, G. A. & Sheeley, N. R., J., “*Correlations Between Brightness Fields and Magnetic Fields on the Sun*”, 1968IAUS...35..161C [ADS](#)