

**ASTRONOMICAL SOCIETY OF THE PACIFIC  
(ASP)**



An international, nonprofit, scientific and educational organization  
founded in 1889, established the

**ASP CONFERENCE SERIES (ASPCS)**

in 1988, to publish books on recent developments in  
astronomy and astrophysics.

A list of recently published ASPCS volumes and all IAU volumes  
published by the ASP follows. For a complete list of all  
ASPCS volumes published please see our web site at  
<http://www.astrosociety.org/pubs.html>

For electronic versions of ASPCS volumes please see our e-book site at  
<http://www.aspbooks.org>

All book orders or inquiries concerning

**ASTRONOMICAL SOCIETY OF THE PACIFIC  
CONFERENCE SERIES  
(ASPCS)**

and

**INTERNATIONAL ASTRONOMICAL UNION VOLUMES  
(IAU)**

should be directed to

**Astronomical Society of the Pacific  
390 Ashton Avenue  
San Francisco CA 94112-1722 USA**

**Phone: 800-335-2624 (within USA)**

**Phone: 415-337-2126**

**Fax: 415-337-5205**

**E-mail: [service@astrosociety.org](mailto:service@astrosociety.org)**

**Web Site: <http://www.astrosociety.org>**

**E-book site: <http://www.aspbbooks.org>**

## ASP CONFERENCE SERIES VOLUMES

Published by the Astronomical Society of the Pacific

---

### **PUBLISHED: 2003 (\* asterisk means OUT OF PRINT)**

- Vol. CS 300      **RADIO ASTRONOMY AT THE FRINGE**, A Conference held in honor of Kenneth I. Kellermann, on the occasion of his 65<sup>th</sup> Birthday  
eds. J. Anton Zensus, Marshall H. Cohen, and Eduardo Ros  
ISBN: 1-58381-147-8                      e-Book ISBN: 978-1-58381-243-3
- Vol. CS 301      **MATTER AND ENERGY IN CLUSTERS OF GALAXIES**  
eds. Stuart Bowyer and Chong-Yuan Hwang  
ISBN: 1-58381-149-4
- Vol. CS 302      **RADIO PULSARS**, In celebration of the contributions of Andrew Lyne, Dick Manchester and Joe Taylor – A Festschrift honoring their 60<sup>th</sup> Birthdays  
eds. Matthew Bailes, David J. Nice, and Stephen E. Thorsett  
ISBN: 1-58381-151-6
- Vol. CS 303      **SYMBIOTIC STARS PROBING STELLAR EVOLUTION**  
eds. R. L. M. Corradi, J. Miłojewska, and T. J. Mahoney  
ISBN: 1-58381-152-4
- Vol. CS 304      **CNO IN THE UNIVERSE**  
eds. Corinne Charbonnel, Daniel Schaerer, and Georges Meynet  
ISBN: 1-58381-153-2
- Vol. CS 305      **International Conference on MAGNETIC FIELDS IN O, B AND A STARS: ORIGIN AND CONNECTION TO PULSATION, ROTATION AND MASS LOSS**  
eds. Luis A. Balona, Huib F. Henrichs, and Rodney Medupe  
ISBN: 1-58381-154-0
- Vol. CS 306      **NEW TECHNOLOGIES IN VLBI**  
ed. Y. C. Minh  
ISBN: 1-58381-155-9
- Vol. CS 307      **SOLAR POLARIZATION 3**  
eds. Javier Trujillo Bueno and Jorge Sanchez Almeida  
ISBN: 1-58381-156-7
- Vol. CS 308      **FROM X-RAY BINARIES TO GAMMA-RAY BURSTS**  
eds. Edward P. J. van den Heuvel, Lex Kaper, Evert Rol, and Ralph A. M. J. Wijers  
ISBN: 1-58381-158-3

### **PUBLISHED: 2004**

- Vol. CS 309      **ASTROPHYSICS OF DUST**  
eds. Adolf N. Witt, Geoffrey C. Clayton, and Bruce T. Draine  
ISBN: 1-58381-159-1                      e-Book ISBN: 978-1-58381-244-0
- Vol. CS 310      **VARIABLE STARS IN THE LOCAL GROUP**, IAU Colloquium 193  
eds. Donald W. Kurtz and Karen R. Pollard  
ISBN: 1-58381-162-1                      e-Book ISBN: 978-1-58381-245-7
- Vol. CS 311      **AGN PHYSICS WITH THE SLOAN DIGITAL SKY SURVEY**  
eds. Gordon T. Richards and Patrick B. Hall  
ISBN: 1-58381-164-8                      e-Book ISBN: 978-1-58381-246-4
- Vol. CS 312      **Third Rome Workshop on GAMMA-RAY BURSTS IN THE AFTERGLOW ERA**  
eds. Marco Feroci, Filippo Frontera, Nicola Masetti, and Luigi Piro  
ISBN: 1-58381-165-6                      e-Book ISBN: 978-1-58381-247-1

## ASP CONFERENCE SERIES VOLUMES

Published by the Astronomical Society of the Pacific

---

**PUBLISHED: 2004 (\* asterisk means OUT OF PRINT)**

- Vol. CS 313      **ASYMMETRICAL PLANETARY NEBULAE III: WINDS, STRUCTURE AND THE THUNDERBIRD**  
eds. Margaret Meixner, Joel H. Kastner, Bruce Balick, and Noam Soker  
ISBN: 1-58381-168-0                      e-Book ISBN: 978-1-58381-248-8
- Vol. CS 314      **ASTRONOMICAL DATA ANALYSIS SOFTWARE AND SYSTEMS XIII**  
eds. Francois Ochsenbein, Mark G. Allen, and Daniel Egret  
ISBN: 1-58381-169-9                      e-Book ISBN: 978-1-58381-249-5  
ISSN: 1080-7926
- Vol. CS 315      **MAGNETIC CATAclySMIC VARIABLES, IAU Colloquium 190**  
eds. Sonja Vriellmann and Mark Cropper  
ISBN: 1-58381-170-2                      e-Book ISBN: 978-1-58381-250-1
- Vol. CS 316      **ORDER AND CHAOS IN STELLAR AND PLANETARY SYSTEMS**  
eds. Gene G. Byrd, Konstantin V. Kholshevnikov, Aleksandr A. Mylläri, Igor' I. Nikiforov, and Victor V. Orlov  
ISBN: 1-58381-172-9                      e-Book ISBN: 978-1-58381-251-8
- Vol. CS 317      **MILKY WAY SURVEYS: THE STRUCTURE AND EVOLUTION OF OUR GALAXY, The 5<sup>th</sup> Boston University Astrophysics Conference**  
eds: Dan Clemens, Ronak Shah, and Tereasa Brainerd  
ISBN: 1-58381-177-X                      e-Book ISBN: 978-1-58381-252-5
- Vol. CS 318      **SPECTROSCOPICALLY AND SPATIALLY RESOLVING THE COMPONENTS OF CLOSE BINARY STARS**  
eds. Ronald W. Hilditch, Herman Hensberge, and Krešimir Pavlovski  
ISBN: 1-58381-179-6                      e-Book ISBN: 978-1-58381-253-2
- Vol. CS 319      **NASA OFFICE OF SPACE SCIENCE EDUCATION AND PUBLIC OUTREACH CONFERENCE**  
eds. Carolyn Narasimhan, Bernhard Beck-Winchatz, Isabel Hawkins, and Cassandra Runyon  
ISBN: 1-58381-181-8                      e-Book ISBN: 978-1-58381-254-9
- Vol. CS 320      **THE NEUTRAL ISM OF STARBURST GALAXIES**  
eds. Susanne Aalto, Susanne Hüttemeister, and Alan Pedlar  
ISBN: 1-58381-182-6                      e-Book ISBN: 978-1-58381-255-6
- Vol. CS 321      **EXTRASOLAR PLANETS: TODAY AND TOMORROW**  
eds. J. P. Beaulieu, A. Lecavelier des Etangs, and C. Terquem  
ISBN: 1-58381-183-4                      e-Book ISBN: 978-1-58381-256-3
- Vol. CS 322      **THE FORMATION AND EVOLUTION OF MASSIVE YOUNG STAR CLUSTERS**  
eds. Henny J. G. L. M. Lamers, Linda J. Smith, and Antonella Nota  
ISBN: 1-58381-184-2                      e-Book ISBN: 978-1-58381-257-0
- Vol. CS 323      **STAR FORMATION IN THE INTERSTELLAR MEDIUM: In Honor of David Hollenbach, Chris McKee and Frank Shu**  
eds. D. Johnstone, F. C. Adams, D. N. C. Lin, D. A. Neufeld, and E. C. Ostriker  
ISBN: 1-58381-185-0                      e-Book ISBN: 978-1-58381-258-7
- Vol. CS 324      **DEBRIS DISKS AND THE FORMATION OF PLANETS: A Symposium in Memory of Fred Gillett**  
eds. Larry Caroff, L. Juleen Moon, Dana Backman, and Elizabeth Praton  
ISBN: 1-58381-186-9                      e-Book ISBN: 978-1-58381-259-4

## ASP CONFERENCE SERIES VOLUMES

Published by the Astronomical Society of the Pacific

---

### **PUBLISHED: 2004 (\* asterisk means OUT OF PRINT)**

- Vol. CS 325      **THE SOLAR-B MISSION AND THE FOREFRONT OF SOLAR PHYSICS**, The Fifth Solar-B Science Meeting  
eds. Takashi Sakurai and Takashi Sekii  
ISBN: 1-58381-187-7                      e-Book ISBN: 978-1-58381-260-0
- Vol. CS 326      Never Submitted by Editor  
ISBN: 1-58381-188-5              LOC#: 2004118371
- Vol. CS 327      **SATELLITES AND TIDAL STREAMS**  
eds. F. Prada, D. Martínez Delgado, and T. J. Mahoney  
ISBN: 1-58381-190-7                      e-Book ISBN: 978-1-58381-261-7

### **PUBLISHED: 2005**

- Vol. CS 328      **BINARY RADIO PULSARS**  
eds. F. A. Rasio and I. H. Stairs  
ISBN: 1-58381-191-5                      e-Book ISBN: 978-1-58381-262-4
- Vol. CS 329      **NEARBY LARGE-SCALE STRUCTURES AND THE ZONE OF AVOIDANCE**  
eds. A. P. Fairall and P. A. Woudt  
ISBN: 1-58381-192-3                      e-Book ISBN: 978-1-58381-263-1
- Vol. CS 330      **THE ASTROPHYSICS OF CATAclySMIC VARIABLES AND RELATED OBJECTS**  
eds. J.-M. Hameury and J.-P. Lasota  
ISBN: 1-58381-193-1                      e-Book ISBN: 978-1-58381-264-8
- Vol. CS 331      **EXTRA-PLANAR GAS**  
ed. Robert Braun  
ISBN: 1-58381-194-X                      e-Book ISBN: 978-1-58381-265-5
- Vol. CS 332      **THE FATE OF THE MOST MASSIVE STARS**  
eds. Roberta M. Humphreys and Krzysztof Z. Stanek  
ISBN: 1-58381-195-8                      e-Book ISBN: 978-1-58381-266-2
- Vol. CS 333      **TIDAL EVOLUTION AND OSCILLATIONS IN BINARY STARS: THIRD GRANADA WORKSHOP ON STELLAR STRUCTURE**  
eds. Antonio Claret, Alvaro Giménez, and Jean-Paul Zahn  
ISBN: 1-58381-196-6                      e-Book ISBN: 978-1-58381-267-9
- Vol. CS 334      **14<sup>TH</sup> EUROPEAN WORKSHOP ON WHITE DWARFS**  
eds. D. Koester and S. Moehler  
ISBN: 1-58381-197-4                      e-Book ISBN: 978-1-58381-268-6
- Vol. CS 335      **THE LIGHT-TIME EFFECT IN ASTROPHYSICS: Causes and Cures of the *O - C* Diagram**  
ed. Christiaan Sterken  
ISBN: 1-58381-200-8                      e-Book ISBN: 978-1-58381-269-3
- Vol. CS 336      **COSMIC ABUNDANCES as Records of Stellar Evolution and Nucleosynthesis, in honor of Dr. David Lambert**  
eds. Thomas G. Barnes, III and Frank N. Bash  
ISBN: 1-58381-201-6                      e-Book ISBN: 978-1-58381-270-9
- Vol. CS 337      **THE NATURE AND EVOLUTION OF DISKS AROUND HOT STARS**  
eds. Richard Ignace and Kenneth G. Gayley  
ISBN: 1-58381-203-2                      e-Book ISBN: 978-1-58381-271-6

## ASP CONFERENCE SERIES VOLUMES

Published by the Astronomical Society of the Pacific

---

### **PUBLISHED: 2005 (\* asterisk means OUT OF PRINT)**

- Vol. CS 338      **ASTROMETRY IN THE AGE OF THE NEXT GENERATION OF LARGE TELESCOPES**  
eds. P. Kenneth Seidelmann and Alice K. B. Monet  
ISBN: 1-58381-205-9                      e-Book ISBN: 978-1-58381-272-3
- Vol. CS 339      **OBSERVING DARK ENERGY**  
eds. Sidney C. Wolff and Tod R. Lauer  
ISBN: 1-58381-206-7                      e-Book ISBN: 978-1-58381-273-0
- Vol. CS 340      **FUTURE DIRECTIONS IN HIGH RESOLUTION ASTRONOMY: A Celebration of the 10<sup>th</sup> Anniversary of the VLBA**  
eds. Jonathan D. Romney and Mark J. Reid  
ISBN: 1-58381-207-5                      e-Book ISBN: 978-1-58381-274-7
- Vol. CS 341      **CHONDRITES AND THE PROTOPLANETARY DISK**  
eds. Alexander N. Krot, Edward R. D. Scott, and Bo Reipurth  
ISBN: 1-58381-208-3                      e-Book ISBN: 978-1-58381-275-4
- Vol. CS 342      **1604–2004: SUPERNOVAE AS COSMOLOGICAL LIGHTHOUSES**  
eds. M. Turatto, S. Benetti, L. Zampieri, and W. Shea  
ISBN: 1-58381-209-1                      e-Book ISBN: 978-1-58381-276-1
- Vol. CS 343      **ASTRONOMICAL POLARIMETRY: CURRENT STATUS AND FUTURE DIRECTIONS**  
eds. Andy Adamson, Colin Aspin, Chris J. Davis, and Takuya Fujiyoshi  
ISBN: 1-58381-210-5                      e-Book ISBN: 978-1-58381-277-8
- Vol. CS 344      **THE COOL UNIVERSE: OBSERVING COSMIC DAWN**  
eds. C. Lidman and D. Alloin  
ISBN: 1-58381-211-3                      e-Book ISBN: 978-1-58381-278-5
- Vol. CS 345      **FROM CLARK LAKE TO THE LONG WAVELENGTH ARRAY: Bill Erickson's Radio Science**  
eds. Namir E. Kassim, Mario R. Pérez, William Junor, and Patricia A. Henning  
ISBN: 1-58381-213-X                      e-Book ISBN: 978-1-58381-279-2
- Vol. CS 346      **LARGE SCALE STRUCTURES AND THEIR ROLE IN SOLAR ACTIVITY**  
eds. K. Sankarasubramanian, M. Penn, and A. Pevtsov  
ISBN: 1-58381-214-8                      e-Book ISBN: 978-1-58381-280-8
- Vol. CS 347      **ASTRONOMICAL DATA ANALYSIS SOFTWARE AND SYSTEMS XIV**  
ed: Patrick L. Shopbell, Matthew C. Britton, and Rick Ebert  
ISBN: 1-58381-215-6                      e-Book ISBN: 978-1-58381-281-5  
ISSN: 1080-7926

### **PUBLISHED: 2006**

- Vol. CS 348      **ASTROPHYSICS IN THE FAR ULTRAVIOLET: FIVE YEARS OF DISCOVERY WITH FUSE**  
eds. George Sonneborn, H. W. Moos, and B-G Andersson  
ISBN: 1-58381-216-4                      e-Book ISBN: 978-1-58381-282-2
- Vol. CS 349      **ASTROPHYSICS OF VARIABLE STARS**  
eds. Christiaan Sterken and Conny Aerts  
ISBN: 1-58381-217-2                      e-Book ISBN: 978-1-58381-283-9
- Vol. CS 350      **BLAZAR VARIABILITY WORKSHOP II: ENTERING THE GLAST ERA**  
eds. H. R. Miller, K. Marshall, J. R. Webb, and M. F. Aller  
ISBN: 1-58381-218-0                      e-Book ISBN: 978-1-58381-284-6

## ASP CONFERENCE SERIES VOLUMES

Published by the Astronomical Society of the Pacific

---

### **PUBLISHED: 2006 (\* asterisk means OUT OF PRINT)**

- Vol. CS 351      **ASTRONOMICAL DATA ANALYSIS AND SOFTWARE SYSTEM XV**  
eds. Carlos Gabriel, Christophe Arviset, Daniel Ponz, and Enrique Solano  
ISBN: 1-58381-219-9                      e-Book ISBN: 978-1-58381-285-3  
ISSN: 1080-7926
- Vol. CS 352      **NEW HORIZONS IN ASTRONOMY: FRANK N. BASH SYMPOSIUM 2005**  
eds. Sheila J. Kannappan, Seth Redfield, Jacqueline E. Kessler-Silacci, Martin  
Landriau, and Niv Drory  
ISBN: 1-58381-220-2                      e-Book ISBN: 978-1-58381-286-0
- Vol. CS 353      **STELLAR EVOLUTION AT LOW METALLICITY: MASS LOSS,  
EXPLOSIONS, COSMOLOGY**  
eds. H. Lamers, N. Langer, T. Nugis, and K. Annuk  
ISBN: 978-1-58381-221-1                      e-Book ISBN: 978-1-58381-287-7
- Vol. CS 354      **SOLAR MHD THEORY AND OBSERVATIONS: A High Spatial Resolution  
Perspective, in Honor of Robert F. Stein**  
eds. Han Uitenbroek, John Leibacher, and Robert F. Stein  
ISBN: 978-1-58381-222-8                      e-Book ISBN: 978-1-58381-288-4
- Vol. CS 355      **STARS WITH THE B[e] PHENOMENON**  
eds. Michaela Kraus and Anatoly S. Miroshnichenko  
ISBN: 978-1-58381-223-5                      e-Book ISBN: 978-1-58381-289-1
- Vol. CS 356      **REVEALING THE MOLECULAR UNIVERSE: ONE ANTENNA IS NEVER  
ENOUGH, in Honor of the academic retirement of Jack Welch**  
eds. D. C. Backer, J. L. Turner, and J. M. Moran  
ISBN: 978-1-58381-224-2                      e-Book ISBN: 978-1-58381-290-7
- Vol. CS 357      **THE SPITZER SPACE TELESCOPE: NEW VIEWS OF THE COSMOS**  
ed. L. Armus and W. T. Reach  
ISBN: 978-1-58381-225-9                      e-Book ISBN: 978-1-58381-291-4
- Vol. CS 358      **SOLAR POLARIZATION 4**  
eds. R. Casini and B. W. Lites  
ISBN: 978-1-58381-226-6                      e-Book ISBN: 978-1-58381-292-1
- Vol. CS 359      **NUMERICAL MODELING OF SPACE PLASMA FLOWS: ASTRONUM-2006,  
1<sup>st</sup> IGPP – CalSpace International Conference**  
eds. Nikolai V. Pogorelov and Gary P. Zank  
ISBN: 978-1-58381-227-3                      e-Book ISBN: 978-1-58381-293-8
- Vol. CS 360      **AGN VARIABILITY FROM X-RAYS TO RADIO WAVES**  
eds. C. Martin Gaskell, Ian M. McHardy, Bradley M. Peterson, and  
Sergey G. Sergeev  
ISBN: 978-1-58381-228-0                      e-Book ISBN: 978-1-58381-294-5

### **PUBLISHED: 2007**

- Vol. CS 361      **ACTIVE OB-STARS: LABORATORIES FOR STELLAR AND  
CIRCUMSTELLAR PHYSICS**  
eds. Stanislav Štefl, Stanley P. Owocki, and Atsuo T. Okazaki  
ISBN: 978-1-58381-229-7                      e-Book ISBN: 978-1-58381-295-2
- Vol. CS 362      **THE 7<sup>TH</sup> PACIFIC RIM CONFERENCE ON STELLAR ASTROPHYSICS**  
eds. Young-Woon Kang, Hee-Won Lee, Kwong Sang Cheng, and  
Kam-Ching Leung  
ISBN: 978-1-58381-230-3                      e-Book ISBN: 978-1-58381-296-9

## ASP CONFERENCE SERIES VOLUMES

Published by the Astronomical Society of the Pacific

---

**PUBLISHED: 2007 (\* asterisk means OUT OF PRINT)**

- Vol. CS 363      **THE NATURE OF V838 MON AND ITS LIGHT ECHO**  
eds. Romano L. M. Corradi and Ulisse Munari  
ISBN: 978-1-58381-231-0      e-Book ISBN: 978-1-58381-297-6
- Vol. CS 364      **THE FUTURE OF PHOTOMETRIC, SPECTROPHOTOMETRIC AND  
POLARIMETRIC STANDARDIZATION**  
ed. Christiaan Sterken  
ISBN: 978-1-58381-232-7      e-Book ISBN: 978-1-58381-298-3
- Vol. CS 365      **SINS – SMALL IONIZED AND NEUTRAL STRUCTURES IN THE DIFFUSE  
INTERSTELLAR MEDIUM**  
eds. M. Haverkorn and W. M. Goss  
ISBN: 978-1-58381-233-4      e-Book ISBN: 978-1-58381-299-0
- Vol. CS 366      **TRANSITING EXTRASOLAR PLANETS WORKSHOP**  
eds. C. Afonso, D. Weldrake, and Th. Henning  
ISBN: 978-1-58381-234-1      e-Book ISBN: 978-1-58381-300-3
- Vol. CS 367      **MASSIVE STARS IN INTERACTING BINARIES**  
eds. Nicole St-Louis and Anthony F. J. Moffat  
ISBN: 978-1-58381-235-8      e-Book ISBN: 978-1-58381-301-0
- Vol. CS 368      **THE PHYSICS OF CHROMOSPHERIC PLASMAS**  
eds. Petr Heinzel, Ivan Dorotovič, and Robert J. Rutten  
ISBN: 978-1-58381-236-5      e-Book ISBN: 978-1-58381-302-7
- Vol. CS 369      **NEW SOLAR PHYSICS WITH SOLAR-B MISSION, The Sixth Solar-B Science  
Meeting**  
eds. K. Shibata, S. Nagata, and T. Sakurai  
ISBN: 978-1-58381-237-2      e-Book ISBN: 978-1-58381-303-4
- Vol. CS 370      **SOLAR AND STELLAR PHYSICS THROUGH ECLIPSES**  
eds. Osman Demircan, Selim O. Selam, and Berahitdin Albayrak  
ISBN: 978-1-58381-238-9      e-Book ISBN: 978-1-58381-304-1
- Vol. CS 371      **STATISTICAL CHALLENGES IN MODERN ASTRONOMY IV**  
eds. G. Jogesh Babu and Eric D. Feigelson  
ISBN: 978-1-58381-240-2      e-Book ISBN: 978-1-58381-305-8
- Vol. CS 372      **15<sup>th</sup> EUROPEAN WORKSHOP ON WHITE DWARFS**  
eds. Ralf Napiwotzki and Matthew R. Burleigh  
ISBN: 978-1-58381-239-6      e-Book ISBN: 978-1-58381-306-5
- Vol. CS 373      **THE CENTRAL ENGINE OF ACTIVE GALACTIC NUCLEI**  
eds. Luis C. Ho and Jian-Min Wang  
ISBN: 978-1-58381-307-2      e-Book ISBN: 978-1-58381-308-9
- Vol. CS 374      **FROM STARS TO GALAXIES: BUILDING THE PIECES TO BUILD UP THE  
UNIVERSE**  
eds. Antonella Vallenari, Rosaria Tantalò, Laura Portinari, and Alessia Moretti  
ISBN: 978-1-58381-309-6      e-Book ISBN: 978-1-58381-310-2
- Vol. CS 375      **FROM Z-MACHINES TO ALMA: (SUB)MILLIMETER SPECTROSCOPY OF  
GALAXIES**  
eds. Andrew J. Baker, Jason Glenn, Andrew I. Harris, Jeffrey G. Mangum, and  
Min S. Yun  
ISBN: 978-1-58381-311-9      e-Book ISBN: 978-1-58381-312-6



## ASP CONFERENCE SERIES VOLUMES

Published by the Astronomical Society of the Pacific

---

### **PUBLISHED: 2007 (\* asterisk means OUT OF PRINT)**

- Vol. CS 376      **ASTRONOMICAL DATA ANALYSIS AND SOFTWARE SYSTEM XVI**  
eds. Richard A. Shaw, Frank Hill, and David J. Bell  
ISBN: 978-1-58381-313-3      e-Book ISBN: 978-1-58381-314-0  
ISSN: 1080-7926
- Vol. CS 377      **LIBRARY AND INFORMATION SERVICES IN ASTRONOMY V:  
COMMON CHALLENGES, UNCOMMON SOLUTIONS**  
eds. Sandra Ricketts, Christina Birdie, and Eva Isaksson  
ISBN: 978-1-58381-316-4      e-Book ISBN: 978-1-58381-317-1
- Vol. CS 378      **WHY GALAXIES CARE ABOUT AGB STARS: THEIR IMPORTANCE AS  
ACTORS AND PROBES**  
eds. F. Kerschbaum, C. Charbonnel, and R. F. Wing  
ISBN: 978-1-58381-318-8      e-Book ISBN: 978-1-58381-319-5
- Vol. CS 379      **COSMIC FRONTIERS**  
eds. Nigel Metcalfe and Tom Shanks  
ISBN: 978-1-58381-320-1      e-Book ISBN: 978-1-58381-321-8
- Vol. CS 380      **AT THE EDGE OF THE UNIVERSE: LATEST RESULTS FROM THE  
DEEPEST ASTRONOMICAL SURVEYS**  
eds. José Afonso, Henry C. Ferguson, Bahram Mobasher, and Ray Norris  
ISBN: 978-1-58381-323-2      e-Book ISBN: 978-1-58381-324-9

### **PUBLISHED: 2008**

- Vol. CS 381      **THE SECOND ANNUAL SPITZER SCIENCE CENTER CONFERENCE:  
INFRARED DIAGNOSTICS OF GALAXY EVOLUTION**  
eds. Ranga-Ram Chary, Harry I. Teplitz, and Kartik Sheth  
ISBN: 978-1-58381-325-6      e-Book ISBN: 978-1-58381-326-3
- Vol. CS 382      **THE NATIONAL VIRTUAL OBSERVATORY: TOOLS AND TECHNIQUES  
FOR ASTRONOMICAL RESEARCH**  
eds. Matthew J. Graham, Michael J. Fitzpatrick, and Thomas A. McGlynn  
ISBN: 978-1-58381-327-0      e-Book ISBN: 978-1-58381-328-7
- Vol. CS 383      **SUBSURFACE AND ATMOSPHERIC INFLUENCES ON SOLAR ACTIVITY**  
eds. R. Howe, R. W. Komm, K. S. Balasubramaniam, and G. J. D. Petrie  
ISBN: 978-1-58381-329-4      e-Book ISBN: 978-1-58381-330-0
- Vol. CS 384      **14TH CAMBRIDGE WORKSHOP ON COOL STARS, STELLAR SYSTEMS,  
AND THE SUN**  
ed. Gerard van Belle  
ISBN: 978-1-58381-331-7      e-Book ISBN: 978-1-58381-332-4
- Vol. CS 385      **NUMERICAL MODELING OF SPACE PLASMA FLOWS: ASTRONUM-2007**  
eds. Nikolai V. Pogorelov, Edouard Audit, and Gary P. Zank  
ISBN: 978-1-58381-333-1      e-Book ISBN: 978-1-58381-334-8

A listing of IAU Volumes published by the ASP Conference Series follows

# INTERNATIONAL ASTRONOMICAL UNION VOLUMES

Published by the Astronomical Society of the Pacific

---

## **PUBLISHED: 1999 (\* asterisk means OUT OF PRINT)**

- Vol. No. 190      **NEW VIEWS OF THE MAGELLANIC CLOUDS**  
eds. You-Hua Chu, Nicholas B. Suntzeff, James E. Hesser and David A. Bohlender  
ISBN: 1-58381-021-8
- Vol. No. 191      **ASYMPTOTIC GIANT BRANCH STARS**  
eds. T. Le Bertre, A. Lèbre and C. Waelkens  
ISBN: 1-886733-90-2
- Vol. No. 192      **THE STELLAR CONTENT OF LOCAL GROUP GALAXIES**  
eds. Patricia Whitelock and Russell Cannon  
ISBN: 1-886733-82-1
- Vol. No. 193      **WOLF-RAYET PHENOMENA IN MASSIVE STARS AND STARBURST GALAXIES**  
eds. Karel A. van der Hucht, Gloria Koenigsberger and Philippe R. J. Eenens  
ISBN: 1-58381-004-8
- Vol. No. 194      **ACTIVE GALACTIC NUCLEI AND RELATED PHENOMENA**  
eds. Yervant Terzian, Daniel Weedman and Edward Khachikian  
ISBN: 1-58381-008-0

## **PUBLISHED: 2000**

- Vol. XXIVA      **TRANSACTIONS OF THE INTERNATIONAL ASTRONOMICAL UNION  
REPORTS ON ASTRONOMY 1996–1999**  
ed. Johannes Andersen  
ISBN: 1-58381-035-8
- Vol. No. 195      **HIGHLY ENERGETIC PHYSICAL PROCESSES AND MECHANISMS FOR  
EMISSION FROM ASTROPHYSICAL PLASMAS**  
eds. P. C. H. Martens, S. Tsuruta, and M. A. Weber  
ISBN: 1-58381-038-2
- Vol. No. 197 \*    **ASTROCHEMISTRY: FROM MOLECULAR CLOUDS TO PLANETARY  
SYSTEMS**  
eds. Y. C. Minh and E. F. van Dishoeck  
ISBN: 1-58381-034-X
- Vol. No. 198      **THE LIGHT ELEMENTS AND THEIR EVOLUTION**  
eds. L. da Silva, M. Spite and J. R. de Medeiros  
ISBN: 1-58381-048-X

## **PUBLISHED: 2001**

- IAU SPS          **ASTRONOMY FOR DEVELOPING COUNTRIES**  
Special Session of the XXIV General Assembly of the IAU  
ed. Alan H. Batten  
ISBN: 1-58381-067-6
- Vol. No. 196      **PRESERVING THE ASTRONOMICAL SKY**  
eds. R. J. Cohen and W. T. Sullivan, III  
ISBN: 1-58381-078-1
- Vol. No. 200 \*    **THE FORMATION OF BINARY STARS**  
eds. Hans Zinnecker and Robert D. Mathieu  
ISBN: 1-58381-068-4

# INTERNATIONAL ASTRONOMICAL UNION VOLUMES

Published by the Astronomical Society of the Pacific

---

## **PUBLISHED: 2001 (\* asterisk means OUT OF PRINT)**

- Vol. No. 203 RECENT INSIGHTS INTO THE PHYSICS OF THE SUN AND HELIOSPHERE:  
HIGHLIGHTS FROM SOHO AND OTHER SPACE MISSIONS  
eds. Pål Brekke, Bernhard Fleck and Joseph B. Gurman  
ISBN: 1-58381-069-2
- Vol. No. 204 THE EXTRAGALACTIC INFRARED BACKGROUND AND ITS  
COSMOLOGICAL IMPLICATIONS  
eds. Martin Harwit and Michael G. Hauser  
ISBN: 1-58381-062-5
- Vol. No. 205 GALAXIES AND THEIR CONSTITUENTS AT THE HIGHEST ANGULAR  
RESOLUTIONS  
eds. Richard T. Schilizzi, Stuart N. Vogel, Francesco Paresce and Martin S. Elvis  
ISBN: 1-58381-066-8
- Vol. XXIVB TRANSACTIONS OF THE INTERNATIONAL ASTRONOMICAL UNION  
PROCEEDINGS OF THE TWENTY-FOURTH GENERAL ASSEMBLY  
ed. Hans Rickman  
ISBN: 1-58381-087-0 ISSN: 0251-107X

## **PUBLISHED: 2002**

- Vol. No. 12 HIGHLIGHTS OF ASTRONOMY  
ed. Hans Rickman  
ISBN: 1-58381-086-2
- Vol. No. 199 THE UNIVERSE AT LOW RADIO FREQUENCIES  
eds. A. Pramesh Rao, G. Swarup and Gopal-Krishna  
ISBN: 58381-121-4
- Vol. No. 206 COSMIC MASERS: FROM PROTOSTARS TO BLACKHOLES  
eds. Victor Migenes and Mark J. Reid  
ISBN: 1-58381-112-5
- Vol. No. 207 EXTRAGALACTIC STAR CLUSTERS  
eds. Doug Geisler, Eva K. Grebel and Dante Minniti  
ISBN: 1-58381-115-X

## **PUBLISHED: 2003**

- Vol. XXVA TRANSACTIONS OF THE INTERNATIONAL ASTRONOMICAL UNION  
REPORTS ON ASTRONOMY 1999–2002  
ed. Hans Rickman  
ISBN: 1-58381-137-0
- Vol. No. 208 ASTROPHYSICAL SUPERCOMPUTING USING PARTICLE SIMULATIONS  
eds. Junichiro Makino and Piet Hut  
ISBN: 1-58381-139-7
- Vol. No. 209 PLANETARY NEBULAE: THEIR EVOLUTION AND ROLE IN THE  
UNIVERSE  
eds. Sun Kwok, Michael Dopita and Ralph Sutherland  
ISBN: 1-58381-148-6
- Vol. No. 210 MODELLING OF STELLAR ATMOSPHERES  
eds. N. Piskunov, W. W. Weiss and D. F. Gray  
ISBN: 1-58381-160-5

# INTERNATIONAL ASTRONOMICAL UNION VOLUMES

Published by the Astronomical Society of the Pacific

---

## **PUBLISHED: 2003 (\* asterisk means OUT OF PRINT)**

- Vol. No. 211      **BROWN DWARFS**  
ed. Eduardo Martín  
ISBN: 1-58381-132-X
- Vol. No. 212      **A MASSIVE STAR ODYSSEY: FROM MAIN SEQUENCE TO SUPERNOVA**  
eds. Karel A. van der Hucht, Artemio Herrero and César Esteban  
ISBN: 1-58381-133-8
- Vol. No. 214      **HIGH ENERGY PROCESSES AND PHENOMENA IN ASTROPHYSICS**  
eds. X. D. Li, V. Trimble and Z. R. Wang  
ISBN: 1-58381-157-5

## **PUBLISHED: 2004**

- Vol. No. 202      **PLANETARY SYSTEMS IN THE UNIVERSE: OBSERVATION, FORMATION AND EVOLUTION**  
eds. Alan Penny, Pawel Artymowicz, Anne-Marie LaGrange and Sara Russell  
ISBN: 1-58381-176-1
- Vol. No. 213      **BIOASTRONOMY 2002: LIFE AMONG THE STARS**  
eds. Ray P. Norris and Frank H. Stootman  
ISBN: 1-58381-171-0
- Vol. Nol 215      **STELLAR ROTATION**  
eds. André Maeder and Philippe Eenens  
ISBN: 1-58381-180-X
- Vol. No. 217      **RECYCLING INTERGALACTIC AND INTERSTELLAR MATTER**  
eds. Pierre-Alain Duc, Jonathan Braine and Elias Brinks  
ISBN: 1-58381-166-4
- Vol. No. 218      **YOUNG NEUTRON STARS AND THEIR ENVIRONMENTS**  
eds. Fernando Camilo and Bryan M. Gaensler  
ISBN: 1-58381-178-8
- Vol. No. 219      **STARS AS SUNS: ACTIVITY, EVOLUTION AND PLANETS**  
eds. A. K. Dupree and A. O. Benz  
ISBN: 1-58381-163-X
- Vol. No. 220      **DARK MATTER IN GALAXIES**  
eds. S. D. Ryder, D. J. Pisano, M. A. Walker and K. C. Freeman  
ISBN: 1-58381-167-2
- Vol. No. 221      **STAR FORMATION AT HIGH ANGULAR RESOLUTION**  
eds. Michael Burton, Ray Jayawardhana and Tyler Bourke  
ISBN: 1-58381-161-3

## **PUBLISHED: 2005**

- Vol. No. 13      **HIGHLIGHTS OF ASTRONOMY**  
ed. Oddbjørn Engvold  
ISBN: 1-58381-189-3
- Vol. No. 201      **NEW COSMOLOGICAL DATA AND THE VALUES OF THE FUNDAMENTAL PARAMETERS**  
eds. Anthony Lasenby and Althea Wilkinson  
ISBN: 1-58381-212-1

# INTERNATIONAL ASTRONOMICAL UNION VOLUMES

Published by the Astronomical Society of the Pacific

---

**PUBLISHED: 2005 (\* asterisk means OUT OF PRINT)**

Vol. No. 216      MAPS OF THE COSMOS  
eds. Matthew Colless, Lister Staveley-Smith and Raylee Stathakis  
ISBN: 1-58381-202-4

**PUBLISHED: 2007**

Vol. XXVB      TRANSACTIONS OF THE INTERNATIONAL ASTRONOMICAL UNION  
PROCEEDINGS OF THE TWENTY-FIFTH GENERAL ASSEMBLY  
ed. Oddbjørn Engvold  
ISBN: 978-1-58381-647-9      ISSN: 0251-107X

