

(5) photographic observations of a spot in the ranges  $\lambda\lambda 5725-5840$  and  $\lambda\lambda 6610-6770$  obtained by O. Engvold at Oslo.

Item (2) is available on magnetic tape; (3) is soon to be published on a roll of print paper 100 m long; the first part of item (4), 1 to  $2.5 \mu\text{m}$ , has been prepared as an atlas and is in press – future work by Hall will make available the atlas' extension to  $12 \mu\text{m}$ .

The large amount of work on the identification of molecular lines and species will only be quoted by two references from which many other references can be found:

'On Molecules in Sunspots', H. Wöhl, *Solar Phys.* **16**, 362, 1971.

'Table of Solar Diatomic Molecular Lines Spectral Range 4900–6441 Å', P. Sotirovski, *Astron. and Astrophys. Suppl. Ser.* **6**, 85, 1972.

A. KEITH PIERCE

*Chairman of the Working Group*

#### WORKING GROUP ON SOLAR ECLIPSES

The total solar eclipse of July 10, 1972, was observed by several parties and it is expected that reports on the observations will be given during the 1973 IAU General Assembly. All information required was provided by Dr V. Gaizauskas and other Canadian colleagues and distributed to interested persons.

Much work has been done in view of the difficulties the observing groups in Africa will have to overcome before, during, and after the eclipse of June 30, 1973. The National Science Foundation has published a Solar Eclipse 1973 Bulletin, as it did for the eclipse of March 7, 1970. The N.S.F. co-ordinator, Dr Ronald R. La Count, has distributed the bulletin widely, reporting on site inspections, meteorological forecasts, general information, relevant data and details on the circumstances of the eclipse.

The joint efforts of Dr E. R. Dyer, Jr., secretary of the IUCSTP, Dr Ronald R. LaCount, Prof. C. de Jager, and those of the Working Group have led, among other things, to the organization and scientific programs connected with the 1973 eclipse. Two meetings were held during the 15th and 16th Annual Meetings of COSPAR in Seattle and Madrid, and a third during the first IAU Regional meeting in Athens. African authorities invited by the General Secretary of the IAU attended the Madrid meeting and promised assistance to observing parties and help for the general organization.

According to a resolution of the Working Group on Solar Eclipses, the Chairman asked the General Secretary to propose a member of the group as a representative to COSPAR. Dr J. Houtgast, former chairman of the Group, has been appointed.

M. RIGUTTI

*Chairman of the Working Group*

#### REFERENCES

<i>Legend</i>			
AA	Astronomy & Astrophys.	BAC	Bull. Astron. Inst. Czechoslovakia
AiA	Astrometriya i Astrophysica	BAAS	Bull. American Astron. Soc.
AJ	Astrophys. Journal	BAOM	Bol. Astron. Obs. Madrid
AL	Astrophysics Letters	GGV	Geod. Geophys. Viroff
AMZ	Astr. mitt Zürich	IKAO	Izv. Krimskoj Astrofiz Obs.
AO	Applied Optics	IAU	IAU Symposium
ARA	Ann. Rev. Astron. Astrophys.	JASWA	J. Astron. Soc. Western Australia
ASHSN	Actes Soc. Helv. Sci. Nat.	JGR	J. Geophys. Research
AT	Astron. Tsirk	JQSRT	J. Quant. Spectrosc. Radiat. Transfer
ATAO	Ann. Tokyo Astron. Obs.	MAG	Mitt. Astron. Ges.
AZ	Astron. Zhurn. Akad. Nauk S.S.R.	MN	Mon. Not. Roy. Astr. Soc.
		MSRSL	Mem. Soc. Roy. Sciences de Liége

N	Nature	Bohlin (1970a) SP <b>12</b> , 240
NPS	Nature Phys. Sci.	Bohlin (1970b) SP <b>13</b> , 153
P	In press	Bohlin (1971) SP <b>18</b> , 450
PASA	Proc. Astr. Soc. Australia	Bohlin, Garrison (1972) BAAS <b>4</b> , 378
PASJ	Publ. Astr. Soc. Japan	Bohlin <i>et al.</i> (1971) SP <b>21</b> , 408
PNAS	Proc. Nat. Academy of Science USA	Boland <i>et al.</i> (1971a) <b>17</b> , 333
PRL	Phys. Rev. Letters	Boland <i>et al.</i> (1971b) PTRSL A <b>270</b> , 29
PTRSL	Phil. Trans. Roy. Soc. London	Boland <i>et al.</i> (1971c) PTRSL A <b>270</b> , 47
SAAJ	Soviet Astron. AJ	Boland <i>et al.</i> AA (P)
SDB	Solnechnye Dannye Byull.	Bonnet (1968) AA <b>31</b> , 597
SP	Solar Physics	Bonnet, Blamont (1968) SP <b>3</b> , 64
SSR	Space Science Reviews	Boyer <i>et al.</i> (1971) SP <b>19</b> , 330
U	Unpublished	Boyle (1972) BAAS <b>4</b> , 268
VANS	Vest. Akad. Nauk S.S.R.	Brault (1972) <i>Auxiliary Instrumentation for Large Telescopes</i> , CERN Conf. Proc., 367
VSNG	Verh. Schweiz. Naturf. Ges.	Brauninger <i>et al.</i> (1971) SP <b>20</b> , 81
ZA	Zeits. Astrophys.	Bray (1969) SP <b>10</b> , 63
Alikayeva, Bekchantayeva (1972) AiA <b>17</b>		Bray, Loughhead, <i>The Solar Chromosphere</i> , Chapman & Hall, London (P)
Alissandrakis, Macris (1971) SP <b>20</b> , 47		Bray, Winter (1970) SP <b>15</b> , 309
Altrock, Canfield (1972a) SP <b>23</b> , 257		Bridges, Wiese (1970) AJ <b>161</b> , L71
Altrock, Canfield (1972b) AJ <b>171</b> , L71		Brueckner (1971) AJ <b>169</b> , 621
Altschuler, Newkirk (1969) SP <b>9</b> , 131		Bruzek, De Mastus (1970) SP <b>12</b> , 447
Altschuler, Perry (1972) SP <b>23</b> , 410		Burger, Dijkstra (1972) SP <b>24</b> , 395
Altschuler <i>et al.</i> (1972) SP (P)		Burton, W. Ridgely (1970) SP <b>14</b> , 3
Applied Optics (1970) <b>9</b> (No. 12)		Burton C. <i>et al.</i> (1971) PTRSL A <b>270</b> , 81
Arnquist, Menzel (1970) SP <b>11</b> , 82		Byard, Kissels (1971) SP <b>21</b> , 351
Arroyo, Torrecilla (1971) BAOM <b>7</b> , 5		
Athay (1970) SP <b>11</b> , 237		Caccin <i>et al.</i> (1970) SP <b>13</b> , 33
Athay (1971) <i>Physics of the Solar Corona</i> , Reidel, Dordrecht, p. 35		Caccin <i>et al.</i> (1971) SP <b>17</b> , 89
Athay, Canfield (1970) NBS Spec. Publ. 332, 65		Canfield (1971) AA <b>10</b> , 64
Athay <i>et al.</i> (1972) SP <b>24</b> , 18		Catura <i>et al.</i> (1972) BAAS <b>4</b> , 379
Axisa <i>et al.</i> (1971) SP <b>19</b> , 110		Chambe (1971) AA <b>12</b> , 210
Badalyan (1971) AT <b>622</b> , 3		Chapman (1970) SP <b>13</b> , 78
Badalyan, Livshitz (1972) SP <b>22</b> , 297		Chevalier, Lambert (1970) SP <b>11</b> , 243
Baluteau (1971) AA <b>14</b> , 428		Clark <i>et al.</i> (1971) PTRSL A <b>270</b> , 55
Banos, Macris (1970) SP <b>12</b> , 106		Cooper <i>et al.</i> (1971) JQSRT <b>11</b> , 263
Bappu, Sivaraman (1971) SP <b>17</b> , 316		Cowan, Widing (1972) BAAS <b>4</b> , 380
Bappu <i>et al.</i> (1972) SP (P)		Cox, Tucker (1969) AJ <b>157</b> , 1157
Baschek <i>et al.</i> (1970) AA <b>4</b> , 229		Cram (1972) SP <b>22</b> , 375.
Batstone <i>et al.</i> (1970) SP <b>13</b> , 289		Culhane <i>et al.</i> (1970) SP <b>15</b> , 394
Beckers (1968) SP <b>3</b> , 367		Cuny (1971) SP <b>16</b> , 293
Beckers (1971) IAU <b>43</b> , 3		Curtis <i>et al.</i> (1971) NCAR Ann. Rept. 127
Beckers (1972) ARAA <b>10</b> , 73		
Beckers, Morrison (1970) SP <b>14</b> , 280		David (1961) ZA <b>53</b> , 37
Beckers, Schroter (1968) SP <b>4</b> , 142		Debarbat <i>et al.</i> (1970a) AA <b>8</b> , 231
Beckers, Wagner (1971) SP <b>21</b> , 439		Debarbat <i>et al.</i> (1970b) AL <b>6</b> , 251
Beckers <i>et al.</i> (P)		De Boer, Pottasch (1972) SP <b>23</b> , 406
Bell (1972) BAAS <b>4</b> , 378		De Boer <i>et al.</i> (1972) AA <b>16</b> , 417
Bhatnagar, Tanaka (1972) SP <b>24</b> , 87		Deinzer (1971) MAG <b>30</b> , 67
Bhattacharyya (1972) SP <b>24</b> , 274		de Jager, Neven (1972) SP <b>22</b> , 49
Billings (1970) SP <b>14</b> , 168		Deubner (1971) SP <b>17</b> , 6
Billings, Oh (1971) SP <b>21</b> , 418		Dollfus (1971) <i>Physics of the Solar Corona</i> , Reidel, Dordrecht, 97
Blackwell <i>et al.</i> (1972) SP <b>23</b> , 292		Drago (1970) SP <b>13</b> , 357
Blaha (1971) SP <b>17</b> , 99		Dubov (1917) SP <b>18</b> , 43
Blumenthal <i>et al.</i> (1972) AJ <b>172</b> , 205		Dulk, Altschuler (1971) SP <b>20</b> , 438
		Dulk <i>et al.</i> (1971) AL <b>8</b> , 235

- Dumont, Pecker (1971) AA **10**, 118  
 Dunn, Zirker (1972) BAAS **4**, 381  
 Dupree (1972) BAAS **4**, 381  
 Dupree, Reeves (1971) AJ **165**, 599  
 Durasova *et al.* (1971) NPS **229**, 82  
 Durrant, Michalitsanos (1971) SP **18**, 60  
 Dyer (1972) *Solar-Terrestrial Physics 1970*, Reidel, Dordrecht
- Eddy (1972) BAAS **4**, 382  
 Eddy, Goff (1971) BAAS **3**, 261  
 Edlén (1972) SP **24**, 356  
 Edmonds (1962) AJ Suppl. **6**, 357  
 Edmonds *et al.* (1971) BAAS **3**, 6  
 Edmonds *et al.* (1972) SP **23**, 47  
 Elste (1967) AJ **148**, 857  
 Elste, Hartoog (1972) in prep.  
 Evans (1970) SP **14**, 157
- Fainberg, Stone (1971) SP **17**, 392  
 Fay, Wyller (1970) SP **11**, 384  
 Finn (1972) AA (P)  
 Fisher (1971a) SP **16**, 111  
 Fisher (1971b) SP **18**, 253  
 Fisher (1971c) SP **19**, 431  
 Fisher (1971d) SP **19**, 436  
 Fisher (1972) SP **24**, 385  
 Fisher, Pope (1971) SP **20**, 389  
 Flower, Jordan, C. (1971) AA **14**, 473  
 Fort *et al.* (1972) AA **17**, 55  
 Foukal (1971) SP **19**, 59  
 Foy (1972) SP **18**, 26  
 Frazier (1970) SP **14**, 89  
 Frazier (1971) SP **21**, 42  
 Frazier (1972) SP **24**, 98  
 Freeman, Jones (1970) SP **15**, 288  
 Fullerton, Cowley (1971) AJ **165**, 643
- Gabriel (1971) SP **21**, 392  
 Gabriel, Jordan, C. (1969) MN **145**, 241  
 Gabriel *et al.* (1971) AJ **169**, 595  
 Garstang (1971) JASWA **29**, 2  
 Garz (1971) AA **10**, 175  
 Garz *et al.* (1971) 2nd Conf. Atomic Spectroscopy, Hannover, Germany 1970  
 Gay (1970a) AA **6**, 327  
 Gay (1970b) AA **7**, 24  
 Gibson, Van Allen (1970) AJ **161**, 1135  
 Gingerich *et al.* (1971) SP **18**, 347  
 Giovanelli (1970) PASA **1**, 363  
 Giovanelli SP (P)  
 Giovanelli, Ramsey (1971) IAU **43**, 293  
 Giovanelli *et al.* (1971) SP **22**, 53  
 Gordon *et al.* (1971) AZ **48**, 70  
 Grevesse, Swings (1970) SP **13**, 19  
 Grevesse, Swings (1972) AJ **171**, 179  
 Greve (1970) SP **15**, 381  
 Greve (1971) SP **16**, 328
- Grigorev, Kuklin (1971) GGV Ser. 2 No. 13, 109  
 Grossman-Doerth, von Uexküll (1971) SP **20**, 31  
 Grossman-Doerth, von Uexküll (U)  
 Gulyaev (1971) SDB **10**, 67  
 Gulyaev (1972) SP **24**, 72  
 Gurtovenko, Alekayeva (1971) SP **21**, 325  
 Gurtovenko, Alikayeva (1972) SP (P)
- Hagen *et al.* (1971) SP **21**, 286  
 Hall, Hinteregger (1970) JGR (Space Phys.) **75**, 6959  
 Hall, Noyes (1972) AJ **175**, L95  
 Hall *et al.* (1972) AJ **171**, 3  
 Hansen, R. T., Garcia *et al.* (1969a) SP **7**, 417  
 Hansen, R. T., Hansen, S. F. *et al.* (1969b) SP **10**, 135  
 Hansen, R. T., Hansen S. F., Garcia (1970) SP **15**, 387  
 Hansen, R. T., Hansen, S. F. *et al.* (1971) SP **18**, 271  
 Hansen, R. T., Hansen, S. F. *et al.* (1972) BAAS **4**, 383  
 Hansen, S. F., Hansen, R. T. *et al.* (1972) BAAS **4**, 383  
 Harvey (1972) NPS **235**, 90  
 Harvey, Howard (1972) SP **23**, 300  
 Harvey, Livingston (1970) AA **9**, 151  
 Hata, Tojo (1972) ATAO Ser. 2, **13**, 149  
 Hauge (1970) SP **11**, 17  
 Hauge (1971) AA **10**, 73  
 Héroux *et al.* (1972) SP **23**, 369  
 Hiei, Hirayama (1970) PASJ **22**, 545  
 High Altitude Observatory (1969) *Chromosphere-Corona Transition Region*, NCAR, Boulder, Col.  
 High Altitude Observatory (1972) *Line Formation in the Presence of a Magnetic Field*, NCAR, Boulder, Col.  
 Holweger (1970) AA **4**, 11  
 Holweger (1971) AA **10**, 128  
 House (1972) SP **23**, 103  
 Houtgast *et al.* (1972) SP **21**, 281  
 Howard (1971) *Solar Magnetic Fields*, IAU **43**, Reidel, Dordrecht  
 Howard, Stenflo (1972) SP **22**, 402  
 Huang, Struve (1952) AJ **116**, 410
- James (1970) SP **12**, 143  
 Janssens (1970) SP **11**, 222  
 Jayanthan (1970) SP **12**, 163  
 Jefferies (1969) **15** Colloque International d'Astrophys., Liège 1968, p. 213  
 Jefferies *et al.* (1971) SP **16**, 103  
 Jefferies *et al.* (1972) SP **22**, 307  
 Johnson (1971) BAAS **3**, 385  
 Jones, Rense (1970) SP **15**, 316  
 Jones *et al.* (1971) SP **21**, 272  
 Jordan C. (1971) SP **21**, 381

- Kaiser (1970) AJ **159**, 77  
 Kandel, Keil (1971) BAAS **3**, 376  
 Kanno *et al.* (1971) SP **21**, 314  
 Karpinsky, Kostjukevich (1971) SDB **3**, 88  
 Keller (1971) SP **21**, 425  
 Kerimbekov (1971) SDB **4**, 96  
 Kerimbekov *et al.* (1970) SDB **12**, 88  
 Khersuriana *et al.* (1971) AZ **48**, 985  
 Khlystov (1970) AZ **47**, 103  
 Koomey *et al.* (1970) N226, 1138  
 Koutchmy (1971) AA **13**, 79  
 Koutchmy (1972a) AA **16**, 103  
 Koutchmy (1972b) SP **24**, 373  
 Koutchmy, Peyturaux (1970) AA **5**, 470  
 Koutchmy, Schatten (1971) SP **17**, 117  
 Krat (1971) VANS **12**, 18  
 Krat, Krat (1971) SP **17**, 355  
 Krat, Stojanova (1971) SP **20**, 57  
 Krieger, Barrett *et al.* (1972) BAAS **4**, 386  
 Krieger, Paolini *et al.* (1972) SP **22**, 150  
 Kumar (1970) Thesis, Univ. Michigan  
 Kundu (1971) SP **21**, 130  
 Kundu, McCullough (1972) SP **24**, 133
- Labs, Neckel (1970) SP **15**, 79  
 Labs, Neckel (1972) SP **22**, 64  
 Lamb (1970) SP **12**, 186  
 Lambert (1971) PTRSL A270, 3  
 Lambert *et al.* (1971a) SP **19**, 289  
 Lambert *et al.* (1971b) MN **154**, 265  
 Landman (1972) SP (P)  
 Landini, Monsignori Fossi (1971) SP **17**, 379  
 Lantos (1972) SP **22**, 387  
 Lantos-Jarry (1970) SP **15**, 40  
 Lantos, Kundu (1971) AA **21**, 119  
 Leblanc (1970) AA **4**, 315  
 Leblanc *et al.* (1970) AA **5**, 391  
 Lee *et al.* (1970) AO **9**, 2653  
 Lena (1970) AA **4**, 202  
 Leroy (1972a) AA **19**, 287  
 Leroy (1972b) SP **25**, 413  
 Leroy, Rosch (1970) SP **15**, 383  
 Leroy *et al.* (1972) AA **17**, 301  
 Lévy (1971) AA **14**, 15  
 Lexa (1969) BAC **20**, 373  
 Lexa (1971) BAC **22**, 1  
 Linsky (1970) SP **11**, 355  
 Linsky, Avrett (1970) PASP **82**, 160  
 Linsky *et al.* (1970) SP **11**, 374  
 Liu, Elske Smith (1971) SP **24**, 301  
 Liu, Sheeley (1971) SP **20**, 282  
 Liu *et al.* (1971) SP **23**, 289  
 Livingston (1970) IAU Colloq. 1969, 321, Contr.  
   Kitt Peak National Obs. No. 531  
 Loughhead (1969) SP **10**, 71  
 Loughhead, Tappere (1971) SP **19**, 44
- McDougal (1971) SP **21**, 430
- MacQueen *et al.* (1972) BAAS **4**, 387  
 Macris (1971) *Physics of the Solar Corona*, Reidel,  
   Dordrecht  
 Makarova *et al.* (1971) AZ **48**, 360  
 Makita (1971) SP **24**, 59  
 Matsushima, Kawabata (1972) AL **11**, 103  
 Mehlretter (1971a) SP **16**, 253  
 Mehlretter (1971b) SP **18**, 510  
 Mewe (1972) SP **22**, 459  
 Milkey (1970) SP **14**, 62  
 Miller *et al.* (1970) BAAS **2**, 331  
 Moore, Fung (1972) SP **23**, 78  
 Mouradian (1967) SP **2**, 258  
 Mouradian (1972) SP **24**, 368  
 Mullan (1972) NPS **235**, 58  
 Munro, Withbroe (1972) AJ (P)  
 Munro *et al.* (1971) SP **19**, 347  
 Musman, Rust (1970) SP **13**, 261
- Nakagawa, Raadu SP **25**, 127  
 Nakagawa *et al.* SP (P)  
 National Center for Atmospheric Research (1971)  
   1970 Ann. Rept. 49  
 National Science Foundation (1970) *Solar Eclipse  
Bulletin*, Washington D.C.  
 National Science Foundation (1973) *Solar Eclipse  
Bulletin*, Washington D.C.  
 Neupert (1971) SP **18**, 474  
 Neupert *et al.* (1972) BAAS **4**, 388  
 Newkirk (1971a) *Physics of the Solar Corona*, 66,  
   Reidel, Dordrecht  
 Newkirk (1971b) IAU **43**, 547, Reidel, Dordrecht  
 Newkirk (1972) Proc. Solar Wind Conf., Asilomar,  
   NASA SP-308, 311  
 Newkirk, Altschuler (1970) SP **13**, 131  
 Newkirk, Harvey (1968) SP **3**, 321  
 Newkirk *et al.* (1968) IAU **35**, 369  
 Newkirk *et al.* (1970) SP **15**, 15  
 Newkirk *et al.* (1972) SP **24**, 370  
 Nikolsky (1970) SP **12**, 379  
 Nikolsky *et al.* (1971) SP **21**, 332  
 Noci (1972-73), preprint  
 Noyes (1971) ARAA **9**, 209  
 Noyes, Kalkofen (1970) SP **15**, 120  
 Noyes, Withbroe (1972) SSR (P)  
 Noyes *et al.* (1970) SP **11**, 388  
 Noyes *et al.* (1972) SP (P)
- O'Brien (1971) SP **19**, 314  
 Olsen *et al.* (1971) SP **21**, 360  
 Orrall (1972) SP **23**, 30
- Parker (1970) ARAA **8**, 1  
 Parkinson, Pounds (1971) SP **17**, 146  
 Parkinson, Reeves (1969) SP **10**, 342  
 Parvey, Musman (1971) SP **18**, 385  
 Pasachoff (1970) SP **12**, 202  
 Pasachoff (1971) SP **19**, 323

- Pasachoff, Zirin (1971) SP **18**, 27  
 Pecker (1970) SP **15**, 88  
 Pepin (1970) AJ **159**, 1067  
 Perry, Altschuler (1972) SP (P)  
 Piddington SP (P)  
 Plaskett (1970) MN **148**, 149  
 Pneuman (1969) SP **6**, 255  
 Pneuman (1971) SP **19**, 16  
 Pneuman (1972a) *Proc. Solar Wind Conf., Asilomar*, NASA SP-308, 55  
 Pneuman (1972b) SP **23**, 223  
 Pneuman (1972c) AJ **177**, 793  
 Pneuman, Kopp (1970) SP **13**, 176  
 Pneuman, Kopp (1971) SP **18**, 258  
 Pneuman, Raadu (1972) (P)  
 Porfirjeva (1971) AZ **48**, 1227  
 Porfirjeva, Sitnik (1971) IKAO **41-42**, 59  
 Prata (1971) SP **20**, 30  
 Raadu (1972) SP **22**, 443  
 Raadu, Nakagawa (1971) SP **20**, 64  
 Ratier, Rozelot (1972) SP **23**, 394  
 Rees (1971) SP **16**, 67  
 Reeves *et al.* (1972) SP (P)  
 Reeves, Parkinson (1970) AJ Suppl. **181**  
 Reeves, Parkinson (1972) SP **24**, 113  
 Reiling (1971) SP **19**, 297  
 Reza, Müller (1970) VSNG, 127  
 Reza, Müller (1971) A  
 Ribes, Unno (1971) PASA **2**, 54  
 Rogers (1970) SP **13**, 57  
 Rosenberg (1972) SP **25**, 188  
 Ross, Aller (1970) PNAS **66**, 983  
 Ross, Aller (1971) BAAS **3**, 438  
 Roueff (1970) AA **7**, 4  
 Rozelot (1972a) SP **22**, 88  
 Rozelot (1972b) *Adaptation de la Camera Electronique Lallemand au Coronagraph* (P)  
 Saito (1970) ATAO, Ser. 2, **12**, 53  
 Saito (1972) ATAO, Ser. 2, **13**, 93  
 Saito, Hata (1970) ATAO, Ser. 2, **12**, 151  
 Sarychev (1970) AZ **47**, 1246  
 Sarychev (1971) AZ **48**, 1232  
 Sawyer C., Hansen S. T. SP (P)  
 Scherrer *et al.* (1972) SP **22**, 418  
 Schmidt *et al.* (1972) BAAS **4**, 390  
 Schmieder (1972) AA **16**, 44  
 Schoolman (1972) SP **22**, 344  
 Semel (1970a) AA **5**, 330  
 Semel (1970b) AA **9**, 152  
 Semel (1970c) AA **9**, 356  
 Sengupta (1971) SP **17**, 160  
 Shatten (1972) *Proc. Solar Wind Conf., Asilomar*, NASA SP-308, 65  
 Shatten *et al.* (1968) SP **6**, 442  
 Sheeley (1971) SP **20**, 19  
 Sheeley, Bhatnagar (1971) SP **18**, 195  
 Simon, G. W., Lynch (1972) BAAS **4**, 391  
 Simon, G. W., Noyes (1971) IAU **43**  
 Simon, G. W., Noyes (1972) SP **22**, 450  
 Simon, M. (1971) SP **21**, 297  
 Sitnik *et al.* (1970) AZ **47**, 516  
 Slaughter, Wilson (1972) SP **24**, 43  
 Smerd, Dulk (1971) IAU **43**, Reidel, Dordrecht  
 Smith, Suffolk (1972) BAAS **4**, 392  
 Snider (1972) PRL **28**, 853  
 Sonett *et al.* (1972) *Proc. Solar Wind Conf., Asilomar*, NASA SP-308  
 Sotirovski (1972) AA **6**, 85  
 Speer *et al.* (1971) N **226**, 249  
 Stanek (1972) SP **21**, 121  
 Stanek (1972) AMZ **309**  
 Stellmacher, Wiehr (1971) SP **18**, 220  
 Stettler *et al.* (1971) ASHSN **45**  
 Stelzried *et al.* (1970) SP **14**, 44  
 Svensson (1971) SP **18**, 232  
 Swensson *et al.* (1970) MSRSL, Sp. Vol. **5**, 40  
 Sykora (1971) SP **18**, 72  
 Tanaka (1971) PASJ **23**, 185  
 Tanaka, Hiei (1972) PASJ **24**, 323  
 Thiessen (1955) ZA **35**, 237  
*Third Symposium on Ultraviolet and X-Ray Spectroscopy of Astrophysical and Laboratory Plasmas*, Utrecht (P)  
 Thomas (1972) SP **24**, 262  
 Timothy *et al.* (1972) BAAS **4**, 393  
 Tousey (1971) PTRSL A**270**, 59  
 Tousey, Koomen (1971a) SP **21**, 401  
 Tousey, Koomen (1971b) BAAS **4**, 394  
 Travis, Matsushima (1968) AJ **154**, 689  
 Trotter, Newkirk (1971) SP **20**, 372  
 Tsubaki *et al.* (1971) SP **21**, 305  
 Tucker, Koren (1971) AJ **168**, 283  
 Uchida (1970) PASJ **22**, 341  
 Underwood, Neupert (1972) BAAS **4**, 394  
 Unsöld (1971) PTRSL **270**, 23  
 Van Dessel (1970) SP **15**, 322  
 Van Speybroeck *et al.* (1970) N **227**, 818  
 Vardya (1972) AJ **171**, 185, & priv. comm.  
 Veeder, Zirin (1970) SP **12**, 391  
 Vernazza, Noyes (1972) SP **22**, 358  
 Wagner, House (1971) AJ **166**, 683  
 Waldmeier (1970) SP **15**, 167  
 Waldmeier (1971a) AMZ **307**  
 Waldmeier (1971b) *Physics of the Solar Corona*, 130, Reidel, Dordrecht  
 Waldmeier (1971c) SP **30**, 332  
 Waldmeier, Weber (1971) AMZ **308**  
 Walker, Rugge (1972) BAAS **4**, 395  
 White SP (P)  
 White, Bhavilai (1970) AL **5**, 137

- White *et al.* (1972) SP **23**, 18  
Widing *et al.* (1970) SP **12**, 52  
Widing *et al.* (1971) AJ **169**, 405  
Wijbenga, Zwaan (1972) SP **23**, 265  
Wilson, Evans (1971) SP **18**, 29  
Wilson *et al.* (1972) SP **25**, 86  
Withbroe (1970a) SP **11**, 42  
Withbroe (1970b) SP **11**, 208  
Withbroe (1971a) SP **18**, 458
- Withbroe (1971b) The Menzel Symposium, NBS Spec. Publ. 353, 127  
Withbroe *et al.* (1971) SP **21**, 272  
Wolnik *et al.* (1970) AJ **162**, 1037  
Wolnik *et al.* (1971) AJ **166**, L31  
Worrall (1971) AA **12**, 88
- Zirin (1970) SP **11**, 497  
Zirin (1972) SP **22**, 34  
Zirker (1970) SP **11**, 68

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