UT Date 2001-04-14 Observers Huchra
Coll. Focus 1000 Grating/Grism $\qquad$ _

| File | Exp <br> Time | $\begin{gathered} U T \\ \text { Start } \end{gathered}$ | $R A$ | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0001. DARK | 900 | 18:48 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0002. BIAS | 0 | 19:55 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0003. DARK | 900 | 19:55 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0004-0013.BIAS | 0 | 22:31 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0014-0019.DARK | 600 | 23:03 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0020-0029. .BIAS | 0 | 0:06 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0030-0035. DARK | 600 | 0:09 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0036-0045.BIAS | 0 | 1:50 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0046-0055.FLAT | 8 | 1:55 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0056-0060.BIAS | 0 | 2:04 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0061-0070.FLAT | 12 | 2:05 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0071. SKY | 20 | 2:13 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0072.SKY | 30 | 2:14 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0073.SKY | 30 | 2:15 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0074.SKY | 30 | 2:16 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0075.SKY | 30 | 2:16 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0076.SKY | 20 | 2:18 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0077. SKY | 20 | 2:18 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0078. SKY | 20 | 2:18 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0079. COMP | 5 | 2:20 | 18:30:50.6 | +09:28:41 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |

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| File | Exp <br> Time | $\underset{\text { Start }}{U T}$ | $R A$ | Dec | Gr. | P.A. | Slit |  | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0080.HD52971 | 2 | 3:05 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | \#57 | Velocity S |  |  |
| 0081. COMP | 5 | 3:07 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | \#57 | Velocity S |  |  |
| 0082. HD52971 | 2 | 3:08 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | \#57 | Velocity S |  |  |
| 0083.HD52971 | 2 | 3:08 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | \#57 | Velocity S |  |  |
| n0084.HD52971 | 2 | 3:08 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | \#57 | Velocity S |  |  |
| 0085. HD52971 | 2 | 3:08 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | \#57 | Velocity S |  |  |
| 0086. COMP | 5 | 3:09 | 06:57:51 | +27:13:42 | 300 | 90 | 3.0 | \#57 | Velocity S |  |  |
| 0087.2M060217p315802 | 600 | 3:12 | 06:02:17.3 | +31:58:02 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0088. COMP | 5 | 3:23 | 06:02:17.3 | +31:58:02 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0089.2M060335p294144 | 720 | 3:25 | 06:03:35.3 | +29:41:44 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0090. COMP | 5 | 3:37 | 06:03:35.3 | +29:41:44 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0091.2M060335p294144 | 720 | 3:39 | 06:03:35.3 | +29:41:44 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0092. COMP | 5 | 3:52 | 06:03:35.3 | +29:41:44 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0093.2M060624p314732 | 600 | 3:53 | 06:06:24.3 | +31:47:32 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0094. COMP | 5 | 4:05 | 06:06:24.3 | +31:47:32 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0095.2M060624p314732 | 600 | 4:06 | 06:06:24.3 | +31:47:32 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0096. COMP | 5 | 4:16 | 06:06:24.3 | +31:47:32 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0097.2M061631p234723 | 600 | 4:19 | 06:16:31.7 | +23:47:23 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0098. COMP | 5 | 4:29 | 06:16:31.7 | +23:47:23 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0099.2M061631p234723 | 600 | 4:31 | 06:16:31.7 | +23:47:23 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |

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| File | Exp Time | $\underset{\text { Start }}{U T}$ | $R A$ | Dec | Gr. | P.A. | Slit |  | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0100. COMP | 5 | 4:42 | 06:16:31.7 | +23:47:23 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0101.2M065257p14473 | 300 | 4:44 | 06:52:57.9 | +14:47:30 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0102. COMP | 5 | 4:49 | 06:52:57.9 | +14:47:30 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0103.2M065342p212823 | 240 | 4:50 | 06:53:42.1 | +21:28:23 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0104. COMP | 5 | 4:55 | 06:53:42.1 | +21:28:23 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0105.2M065320p080715 | 360 | 4:56 | 06:53:20.5 | +08:07:15 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0106. COMP | 5 | 5:03 | 06:53:20.5 | +08:07:15 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0107.2M070734p112629 | 330 | 5:04 | 07:07:34.0 | +11:26:29 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0108. COMP | 5 | 5:10 | 07:07:34.0 | +11:26:29 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0109.2M070948p630132 | 360 | 5:13 | 07:09:48.3 | +63:01:32 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0110.COMP | 5 | 5:19 | 07:09:48.3 | +63:01:32 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0111.2M073005p64431¢ | 240 | 5:22 | 07:30:05.9 | +64:43:18 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0112. COMP | 5 | 5:26 | 07:30:05.9 | +64:43:18 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0113.2M073829p633716 | 330 | 5:29 | 07:38:29.2 | +63:37:18 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0114.COMP | 5 | 5:35 | 07:38:29.2 | +63:37:18 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0115.2M080438p652331 | 240 | 5:36 | 08:04:38.0 | +65:23:31 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0116. COMP | 5 | 5:40 | 08:04:38.0 | +65:23:31 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0117.2M080759p624414 | 450 | 5:43 | 08:07:59.7 | +62:44:14 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0118. COMP | 5 | 5:51 | 08:07:59.7 | +62:44:14 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0119.2M102528p70450才 | 270 | 5:55 | 10:25:28.0 | +70:45:00 | 300 | 90 | 3.0 | \#68 | 2MASS Reds |  |  |

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| File | Exp Time | $\begin{aligned} & \text { UT } \\ & \text { Start } \end{aligned}$ | $R A$ | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0120. COMP | 5 | 6:00 | 10:25:28.0 | +70:45:00 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0121.2M102528p70450 | 360 | 6:10 | 10:26:35.5 | 82:14:18 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0122. COMP | 5 | 6:16 | 10:26:35.5 | 82:14:18 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0123.2M102928p20592S | 270 | 6:21 | 10:29:28.3 | +20:59:29 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0124. COMP | 5 | 6:26 | 10:29:28.3 | +20:59:29 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0125.2M103635m070645 | 420 | 6:28 | 10:36:35.4 | -07:06:45 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0126. COMP | 5 | 6:35 | 10:36:35.4 | -07:06:45 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0127.2M103858m070306 | 420 | 6:36 | 10:38:58.9 | -07:03:08 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0128. COMP | 5 | 6:44 | 10:38:58.9 | -07:03:08 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0129.2M104435p111745 | 240 | 6:45 | 10:44:35.8 | +11:17:45 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0130. COMP | 5 | 6:50 | 10:44:35.8 | +11:17:45 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0131.2M104638p114555 | 300 | 6:53 | 10:46:38.9 | +11:45:55 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0132. COMP | 5 | 6:58 | 10:46:38.9 | +11:45:55 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0133.2M104011p234121 | 300 | 7:02 | 10:40:11.3 | +23:41:21 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0134. COMP | 5 | 7:08 | 10:40:11.3 | +23:41:21 | 300 | 90 | 3.0 | \#68 2MASS Reds |  |  |
| 0135.SN2001V | 1200 | 7:15 | 11:57:25.0 | 25:12:10 | 300 | 66 | 3.0 | \#2 SN Observat |  |  |
| 0136. COMP | 5 | 7:35 | 11:57:25.0 | 25:12:10 | 300 | 66 | 3.0 | \#2 SN Observat |  |  |
| 0137. COMP | 5 | 7:36 | 11:57:25.0 | 25:12:10 | 300 | 66 | 3.0 | \#2 SN Observat |  |  |
| 0138.Feige66 | 30 | 7:39 | 12:34:54.7 | 25:20:31 | 300 | 66 | 3.0 | \#56 Spectropho |  |  |
| 0139.Feige66 | 30 | 7:40 | 12:34:54.7 | 25:20:31 | 300 | 66 | 3.0 | \#56 Spectropho |  |  |

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| File | Exp <br> Time | $\underset{\text { Start }}{U T}$ | RA | Dec | Gr. | P.A. | Slit | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0140. COMP | 5 | 7:41 | 12:34:54.7 | 25:20:31 | 300 | 66 | 3.0 | \#56 Spectropho |  |  |
| 0141.Feige66 | 30 | 7:42 | 12:34:54.7 | 25:20:31 | 300 | 66 | 3.0 | \#56 Spectropho |  |  |
| 0142. COMP | 5 | 7:43 | 12:34:54.7 | 25:20:31 | 300 | 66 | 3.0 | \#56 Spectropho |  |  |
| 0143. MRK421 | 180 | 7:47 | 11:04:27.4 | +38:12:32 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0144. COMP | 5 | 7:51 | 11:04:27.4 | +38:12:32 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0145.N4051 | 120 | 7:53 | 12:03:09.7 | +44:31:53 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0146.N4051 | 120 | 7:55 | 12:03:09.7 | +44:31:53 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0147.N4051 | 120 | 7:57 | 12:03:09.7 | +44:31:53 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0148. COMP | 5 | 8:00 | 12:03:09.7 | +44:31:53 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0149.N4151 | 30 | 8:01 | 12:10:32.6 | +39:24:21 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0150.N4151 | 30 | 8:02 | 12:10:32.6 | +39:24:21 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0151.N4151 | 30 | 8:03 | 12:10:32.6 | +39:24:21 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0152. COMP | 5 | 8:04 | 12:10:32.6 | +39:24:21 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0153.N5548 | 90 | 8:05 | 14:17:59.6 | +25:08:12 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0154.N5548 | 90 | 8:07 | 14:17:59.6 | +25:08:12 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0155.N5548 | 90 | 8:09 | 14:17:59.6 | +25:08:12 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0156. COMP | 5 | 8:10 | 14:17:59.6 | +25:08:12 | 300 | 66 | 3.0 | \#6 AGN Monitor |  |  |
| 0157.HZ44 | 120 | 8:12 | 13:21:19.0 | 36:23:39 | 300 | 66 | 3.0 | \#56 Spectropho |  |  |
| 0158. COMP | 5 | 8:15 | 13:21:19.0 | 36:23:39 | 300 | 66 | 3.0 | \#56 Spectropho |  |  |
| 0159.N4486B | 200 | 8:16 | 12:30:32 | +12:29:25 | 300 | 66 | 3.0 | \#57 Velocity S |  |  |

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| File | Exp Time | $\begin{aligned} & \text { UT } \\ & \text { Start } \end{aligned}$ | $R A$ | Dec | Gr. | P.A. | Slit |  | Program | Bir | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0180. COMP | 5 | 10:17 | 13:15:44.5 | +52:12:13 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0181.2M143549p62251¢ | 330 | 10:22 | 14:35:49.4 | +62:25:16 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0182. COMP | 5 | 10:28 | 14:35:49.4 | +62:25:16 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0183.2M143549p62251¢ | 330 | 10:29 | 14:35:49.4 | +62:25:16 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0184. COMP | 5 | 10:35 | 14:35:49.4 | +62:25:16 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0185.2M144400p621254 | 300 | 10:36 | 14:44:00.8 | +62:12:54 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0186. COMP | 5 | 10:42 | 14:44:00.8 | +62:12:54 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0187.2M152129p705514 | 330 | 10:43 | 15:21:29.8 | +70:55:14 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0188. COMP | 5 | 10:50 | 15:21:29.8 | +70:55:14 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0189.2M152754p541612 | 450 | 10:52 | 15:27:54.7 | +54:16:12 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0190. COMP | 5 | 11:00 | 15:27:54.7 | +54:16:12 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0191.2M152754p541612 | 450 | 11:00 | 15:27:54.7 | +54:16:12 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0192. COMP | 5 | 11:08 | 15:27:54.7 | +54:16:12 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0193.2M154756p445745 | 450 | 11:16 | 15:47:56.2 | +44:57:45 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0194. COMP | 5 | 11:24 | 15:47:56.2 | +44:57:45 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0195.2M172219p10582才 | 120 | 11:29 | 17:22:19.4 | +10:58:27 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0196. COMP | 5 | 11:31 | 17:22:19.4 | +10:58:27 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0197.2M173626p100114 | 450 | 11:33 | 17:36:26.3 | +10:01:14 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0198. COMP | 5 | 11:41 | 17:36:26.3 | +10:01:14 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |
| 0199.2M174333p08442才 | 600 | 11:43 | 17:43:33.2 | +08:44:27 | 300 | 3 | 3.0 | \#68 | 2MASS Reds |  |  |



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