

Observation session from 2019-01-03 20:57 to 2019-01-04 03:31. Ordered by set time, then transit time.

Galaxy in Triangulum Triangulum Galaxy <i>M 33, NGC 598, CGCG 502-110, MCG 5-4-69, PGC 5818, UGC 1117</i>	mag 5.7 ra 01h33m52s dec +30d39m29s size 66.0 x 41.6 chart 1 to 10	rise 2019-01-03 14:20 set 2019-01-03 23:27 start alt 21° midnight alt -8° transit 2019-01-03 18:53 27° end alt -47°	Galaxy in Pisces M 74 <i>M 74, NGC 628, CGCG 460-14, IRAS 01340+1532, MCG 3-5-11, PGC 5974, UGC 1149</i>	mag 9.4 ra 01h36m42s dec +15d47m00s size 10.5 x 9.5 chart 1 to 10	rise 2019-01-03 13:37 set 2019-01-04 00:15 start alt 34° midnight alt 0° transit 2019-01-03 18:56 42° end alt -41°
Galaxy in Cetus M 77 <i>M 77, NGC 1068, 3C 71, Arp 37, CGCG 388-98, IRAS 02401-0013, KUG 0240-002, MCG 0-7-83, PGC 10266, UGC 2188</i>	mag 8.9 ra 02h42m41s dec -0d00m46s size 7.1 x 6.0 chart 1 to 10	rise 2019-01-03 14:03 set 2019-01-04 02:01 start alt 55° midnight alt 22° transit 2019-01-03 20:02 58° end alt -19°	Bright nebula in Taurus Pleiades <i>M 45, Mel 22</i>	mag 1.2 ra 03h47m00s dec +24d07m00s size 102.0 x 102.0 chart 11 to 20	rise 2019-01-03 16:11 set 2019-01-04 02:01 start alt 34° midnight alt 18° transit 2019-01-03 21:06 34° end alt -17°
Open cluster in Auriga M 38 <i>M 38, NGC 1912, OCL 433</i>	mag 6.4 ra 05h28m43s dec +35d51m18s size 15.0 x 15.0 chart 11 to 20	rise 2019-01-03 18:34 set 2019-01-04 03:01 start alt 17° midnight alt 19° transit 2019-01-03 22:48 22° end alt -4°	Galaxy in Eridanus NGC 1337 <i>NGC 1337, MCG -2-9-42, PGC 12916</i>	mag 11.9 ra 03h28m06s dec -8d23m18s size 5.7 x 1.5 chart 11 to 20	rise 2019-01-03 14:28 set 2019-01-04 03:07 start alt 66° midnight alt 36° transit 2019-01-03 20:47 66° end alt -5°
Open cluster in Auriga M 36 <i>M 36, NGC 1960, OCL 445</i>	mag 6.0 ra 05h36m18s dec +34d08m27s size 10.0 x 10.0 chart 11 to 20	rise 2019-01-03 18:35 set 2019-01-04 03:16 start alt 18° midnight alt 21° transit 2019-01-03 22:55 24° end alt -2°	Galaxy in Eridanus NGC 1232 <i>NGC 1232, ESO 547-14, Arp 41, MCG -4-8-32, PGC 11819</i>	mag 9.9 ra 03h09m45s dec -20d34m45s size 7.4 x 6.5 chart 11 to 20	rise 2019-01-03 13:37 set 2019-01-04 03:21 start alt 77° midnight alt 38° transit 2019-01-03 20:29 78° end alt -1°
Galaxy in Fornax NGC 1079 <i>NGC 1079, ESO 416-13, IRAS 02415-2913, MCG -5-7-17, PGC 10330</i>	mag 11.5 ra 02h43m44s dec -29d00m10s size 5.5 x 3.1 chart 1 to 10	rise 2019-01-03 12:44 set 2019-01-04 03:21 start alt 77° midnight alt 36° transit 2019-01-03 20:03 87° end alt -1°	Galaxy in Eridanus NGC 1300 <i>NGC 1300, ESO 547-31, IRAS 03174-1935, MCG -3-9-18, PGC 12412, UGCA 66</i>	mag 10.4 ra 03h19m41s dec -19d24m41s size 6.2 x 4.1 chart 11 to 20	rise 2019-01-03 13:50 set 2019-01-04 03:28 start alt 77° midnight alt 40° transit 2019-01-03 20:39 77° end alt 0°

Galaxy in Fornax NGC 1097 <i>NGC 1097, ESO 416-20, AM 0244-302, Arp 77, C 67, IRAS 02441-3029, MCG -5-7-24, PGC 10488, UGCA 41</i>	<div>mag</div> <div>9.5</div> <div>ra</div> <div>02h46m19s</div> <div>dec</div> <div>-30d16m32s</div> <div>size</div> <div>9.4 x 6.6</div> <div>chart</div> <div>1 to 10</div>	<div>rise</div> <div>2019-01-03 12:43</div> <div>set</div> <div>2019-01-04 03:28</div> <div>start alt</div> <div>78°</div> <div>midnight alt</div> <div>37°</div> <div>transit</div> <div>2019-01-03 20:06 88°</div> <div>end alt</div> <div>0°</div>
Open cluster in Auriga M 37 <i>M 37, NGC 2099, OCL 451</i>	<div>mag</div> <div>5.6</div> <div>ra</div> <div>05h52m18s</div> <div>dec</div> <div>+32d33m11s</div> <div>size</div> <div>15.0 x 15.0</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 18:45</div> <div>set</div> <div>2019-01-04 03:38</div> <div>start alt</div> <div>18°</div> <div>midnight alt</div> <div>24°</div> <div>transit</div> <div>2019-01-03 23:11 25°</div> <div>end alt</div> <div>1°</div>
Planetary nebula in Taurus Crab Nebula <i>M 1, NGC 1952, Sh 2-244</i>	<div>mag</div> <div>8.4</div> <div>ra</div> <div>05h34m30s</div> <div>dec</div> <div>+22d01m00s</div> <div>size</div> <div>8.0 x 4.0</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 17:52</div> <div>set</div> <div>2019-01-04 03:55</div> <div>start alt</div> <div>29°</div> <div>midnight alt</div> <div>32°</div> <div>transit</div> <div>2019-01-03 22:53 36°</div> <div>end alt</div> <div>4°</div>
Galaxy in Eridanus NGC 1395 <i>NGC 1395, ESO 482-19, AM 0336-231, MCG -4-9-39, PGC 13419</i>	<div>mag</div> <div>9.6</div> <div>ra</div> <div>03h38m30s</div> <div>dec</div> <div>-23d01m38s</div> <div>size</div> <div>5.0 x 4.5</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:58</div> <div>set</div> <div>2019-01-04 03:57</div> <div>start alt</div> <div>81°</div> <div>midnight alt</div> <div>45°</div> <div>transit</div> <div>2019-01-03 20:57 81°</div> <div>end alt</div> <div>4°</div>
Galaxy in Fornax NGC 1367 <i>NGC 1367, NGC 1371, ESO 482-10, AM 0332-250, IRAS 03327-2505, MCG -4-9-29, PGC 13255, UGCA 79</i>	<div>mag</div> <div>10.7</div> <div>ra</div> <div>03h35m01s</div> <div>dec</div> <div>-24d56m00s</div> <div>size</div> <div>5.6 x 3.9</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:49</div> <div>set</div> <div>2019-01-04 03:59</div> <div>start alt</div> <div>83°</div> <div>midnight alt</div> <div>45°</div> <div>transit</div> <div>2019-01-03 20:54 83°</div> <div>end alt</div> <div>5°</div>
Planetary nebula in Fornax NGC 1360 <i>NGC 1360, ESO 482-PN7, AM 0331-260, PK 220-53.1</i>	<div>mag</div> <div>9.4</div> <div>ra</div> <div>03h33m15s</div> <div>dec</div> <div>-25d52m16s</div> <div>size</div> <div>6.4 x 6.4</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:44</div> <div>set</div> <div>2019-01-04 04:00</div> <div>start alt</div> <div>84°</div> <div>midnight alt</div> <div>45°</div> <div>transit</div> <div>2019-01-03 20:52 84°</div> <div>end alt</div> <div>5°</div>
Galaxy in Fornax NGC 1398 <i>NGC 1398, ESO 482-22, AM 0336-263, IRAS 03367-2629, MCG -4-9-40, PGC 13434</i>	<div>mag</div> <div>9.7</div> <div>ra</div> <div>03h38m52s</div> <div>dec</div> <div>-26d20m14s</div> <div>size</div> <div>7.2 x 5.2</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:48</div> <div>set</div> <div>2019-01-04 04:07</div> <div>start alt</div> <div>84°</div> <div>midnight alt</div> <div>46°</div> <div>transit</div> <div>2019-01-03 20:58 84°</div> <div>end alt</div> <div>6°</div>
Open cluster in Gemini M 35 <i>M 35, NGC 2168, OCL 466</i>	<div>mag</div> <div>5.1</div> <div>ra</div> <div>06h09m00s</div> <div>dec</div> <div>+24d21m00s</div> <div>size</div> <div>25.0 x 25.0</div> <div>chart</div> <div>21 to 30</div>	<div>rise</div> <div>2019-01-03 18:33</div> <div>set</div> <div>2019-01-04 04:22</div> <div>start alt</div> <div>23°</div> <div>midnight alt</div> <div>32°</div> <div>transit</div> <div>2019-01-03 23:28 34°</div> <div>end alt</div> <div>9°</div>
Galaxy in Fornax NGC 1425 <i>NGC 1425, ESO 419-4, IRAS 03401-3002, MCG -5-9-23, PGC 13602, UGCA 84</i>	<div>mag</div> <div>10.6</div> <div>ra</div> <div>03h42m11s</div> <div>dec</div> <div>-29d53m39s</div> <div>size</div> <div>5.8 x 2.5</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:39</div> <div>set</div> <div>2019-01-04 04:23</div> <div>start alt</div> <div>88°</div> <div>midnight alt</div> <div>48°</div> <div>transit</div> <div>2019-01-03 21:01 88°</div> <div>end alt</div> <div>9°</div>
Galaxy in Fornax NGC 1350 <i>NGC 1350, ESO 358-13, AM 0329-334, FCC 88, IRAS 03291-3347, MCG -6-8-23, PGC 13059</i>	<div>mag</div> <div>10.3</div> <div>ra</div> <div>03h31m08s</div> <div>dec</div> <div>-33d37m38s</div> <div>size</div> <div>5.9 x 3.1</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:15</div> <div>set</div> <div>2019-01-04 04:25</div> <div>start alt</div> <div>87°</div> <div>midnight alt</div> <div>47°</div> <div>transit</div> <div>2019-01-03 20:50 88°</div> <div>end alt</div> <div>9°</div>

Galaxy in Fornax NGC 1316 <i>NGC 1316, ESO 357-22, AM 0320-372, Arp 154, FCC 21, IRAS 03208-3723, MCG -6-8-8, PGC 12651</i>	<div>mag</div> <div>8.5</div> <div>ra</div> <div>03h22m41s</div> <div>dec</div> <div>-37d12m28s</div> <div>size</div> <div>11.0 x 7.2</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 12:52</div> <div>set</div> <div>2019-01-04 04:32</div> <div>start alt</div> <div>83°</div> <div>midnight alt</div> <div>46°</div> <div>transit</div> <div>2019-01-03 20:42</div> <div>84°</div> <div>end alt</div> <div>9°</div>
Bright nebula in Orion NGC 1788 <i>NGC 1788, LBN 916</i>	<div>mag</div> <div>0.0</div> <div>ra</div> <div>05h06m54s</div> <div>dec</div> <div>-3d20m00s</div> <div>size</div> <div>5.0 x 3.0</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 16:19</div> <div>set</div> <div>2019-01-04 04:33</div> <div>start alt</div> <div>54°</div> <div>midnight alt</div> <div>51°</div> <div>transit</div> <div>2019-01-03 22:26</div> <div>61°</div> <div>end alt</div> <div>13°</div>
Diffuse nebula in Orion NGC 2174 <i>NGC 2174, Sh 2-252, Ced 67A</i>	<div>mag</div> <div>0.0</div> <div>ra</div> <div>06h09m24s</div> <div>dec</div> <div>+20d40m00s</div> <div>size</div> <div>40.0 x 30.0</div> <div>chart</div> <div>21 to 30</div>	<div>rise</div> <div>2019-01-03 18:23</div> <div>set</div> <div>2019-01-04 04:34</div> <div>start alt</div> <div>26°</div> <div>midnight alt</div> <div>36°</div> <div>transit</div> <div>2019-01-03 23:28</div> <div>37°</div> <div>end alt</div> <div>11°</div>
Bright nebula in Orion NGC 2175 <i>NGC 2175,</i>	<div>mag</div> <div>6.8</div> <div>ra</div> <div>06h09m36s</div> <div>dec</div> <div>+20d29m00s</div> <div>size</div> <div>18.0 x 18.0</div> <div>chart</div> <div>21 to 30</div>	<div>rise</div> <div>2019-01-03 18:23</div> <div>set</div> <div>2019-01-04 04:34</div> <div>start alt</div> <div>26°</div> <div>midnight alt</div> <div>36°</div> <div>transit</div> <div>2019-01-03 23:28</div> <div>37°</div> <div>end alt</div> <div>11°</div>
Galaxy in Fornax Great Barred Spiral Galaxy <i>NGC 1365, ESO 358-17, FCC 121, IRAS 03317-3618, MCG -6-8-26, PGC 13179, V V 825</i>	<div>mag</div> <div>9.6</div> <div>ra</div> <div>03h33m37s</div> <div>dec</div> <div>-36d08m27s</div> <div>size</div> <div>11.0 x 6.2</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:07</div> <div>set</div> <div>2019-01-04 04:38</div> <div>start alt</div> <div>85°</div> <div>midnight alt</div> <div>48°</div> <div>transit</div> <div>2019-01-03 20:53</div> <div>85°</div> <div>end alt</div> <div>10°</div>
Galaxy in Fornax NGC 1399 <i>NGC 1399, ESO 358-45, AM 0336-353, FCC 213, MCG -6-9-12, PGC 13418</i>	<div>mag</div> <div>9.6</div> <div>ra</div> <div>03h38m29s</div> <div>dec</div> <div>-35d26m59s</div> <div>size</div> <div>6.9 x 6.5</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:15</div> <div>set</div> <div>2019-01-04 04:40</div> <div>start alt</div> <div>86°</div> <div>midnight alt</div> <div>49°</div> <div>transit</div> <div>2019-01-03 20:57</div> <div>86°</div> <div>end alt</div> <div>11°</div>
Galaxy in Eridanus NGC 1269 <i>NGC 1269, NGC 1291, ESO 301-2, AM 0315-411, IRAS 03154-4117, MCG -7-7-8, PGC 12209</i>	<div>mag</div> <div>8.5</div> <div>ra</div> <div>03h17m18s</div> <div>dec</div> <div>-41d06m26s</div> <div>size</div> <div>11.0 x 9.5</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 12:28</div> <div>set</div> <div>2019-01-04 04:45</div> <div>start alt</div> <div>79°</div> <div>midnight alt</div> <div>45°</div> <div>transit</div> <div>2019-01-03 20:36</div> <div>80°</div> <div>end alt</div> <div>10°</div>
Bright nebula in Orion NGC 1990 <i>NGC 1990, LBN 940</i>	<div>mag</div> <div>0.0</div> <div>ra</div> <div>05h36m12s</div> <div>dec</div> <div>-1d12m00s</div> <div>size</div> <div>50.0 x 10.0</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 16:53</div> <div>set</div> <div>2019-01-04 04:57</div> <div>start alt</div> <div>48°</div> <div>midnight alt</div> <div>54°</div> <div>transit</div> <div>2019-01-03 22:55</div> <div>59°</div> <div>end alt</div> <div>18°</div>
Galaxy in Eridanus NGC 1532 <i>NGC 1532, ESO 359-27, AM 0410-325, AM 0410-330, IRAS 04102-3259, MCG -5-11-2, PGC 14638</i>	<div>mag</div> <div>9.9</div> <div>ra</div> <div>04h12m04s</div> <div>dec</div> <div>-32d52m23s</div> <div>size</div> <div>11.6 x 3.4</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 13:58</div> <div>set</div> <div>2019-01-04 05:03</div> <div>start alt</div> <div>82°</div> <div>midnight alt</div> <div>55°</div> <div>transit</div> <div>2019-01-03 21:31</div> <div>88°</div> <div>end alt</div> <div>16°</div>
Bright nebula in Orion NGC 2067 <i>NGC 2067,</i>	<div>mag</div> <div>0.0</div> <div>ra</div> <div>05h46m24s</div> <div>dec</div> <div>+0d06m00s</div> <div>size</div> <div>8.0 x 3.0</div> <div>chart</div> <div>11 to 20</div>	<div>rise</div> <div>2019-01-03 17:06</div> <div>set</div> <div>2019-01-04 05:04</div> <div>start alt</div> <div>46°</div> <div>midnight alt</div> <div>54°</div> <div>transit</div> <div>2019-01-03 23:05</div> <div>58°</div> <div>end alt</div> <div>19°</div>

<div>Diffuse nebula in Orion</div> <div>Flame Nebula</div> <div>NGC 2024, Sh 2-277, Ced 55P</div>	<table><tr><td>mag</td><td>0.0</td><td>rise</td><td>2019-01-03 16:57</td></tr><tr><td>ra</td><td>05h41m42s</td><td>set</td><td>2019-01-04 05:04</td></tr><tr><td>dec</td><td>-1d51m00s</td><td>start alt</td><td>48°</td></tr><tr><td>size</td><td>30.0 x 30.0</td><td>midnight alt</td><td>55°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 23:00 60°</td></tr><tr><td></td><td></td><td>end alt</td><td>19°</td></tr></table>	mag	0.0	rise	2019-01-03 16:57	ra	05h41m42s	set	2019-01-04 05:04	dec	-1d51m00s	start alt	48°	size	30.0 x 30.0	midnight alt	55°	chart	11 to 20	transit	2019-01-03 23:00 60°			end alt	19°	<div>Bright nebula in Orion</div> <div>NGC 2064</div> <div>NGC 2064, LBN 1627</div>	<table><tr><td>mag</td><td>0.0</td><td>rise</td><td>2019-01-03 17:06</td></tr><tr><td>ra</td><td>05h46m18s</td><td>set</td><td>2019-01-04 05:04</td></tr><tr><td>dec</td><td>+0d00m00s</td><td>start alt</td><td>46°</td></tr><tr><td>size</td><td>10.0 x 10.0</td><td>midnight alt</td><td>54°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 23:05 58°</td></tr><tr><td></td><td></td><td>end alt</td><td>19°</td></tr></table>	mag	0.0	rise	2019-01-03 17:06	ra	05h46m18s	set	2019-01-04 05:04	dec	+0d00m00s	start alt	46°	size	10.0 x 10.0	midnight alt	54°	chart	11 to 20	transit	2019-01-03 23:05 58°			end alt	19°
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<div>Bright nebula in Orion</div> <div>NGC 2071</div> <div>NGC 2071, LBN 938</div>	<table><tr><td>mag</td><td>8.0</td><td>rise</td><td>2019-01-03 17:08</td></tr><tr><td>ra</td><td>05h47m06s</td><td>set</td><td>2019-01-04 05:04</td></tr><tr><td>dec</td><td>+0d18m00s</td><td>start alt</td><td>45°</td></tr><tr><td>size</td><td>7.0 x 5.0</td><td>midnight alt</td><td>54°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 23:06 58°</td></tr><tr><td></td><td></td><td>end alt</td><td>19°</td></tr></table>	mag	8.0	rise	2019-01-03 17:08	ra	05h47m06s	set	2019-01-04 05:04	dec	+0d18m00s	start alt	45°	size	7.0 x 5.0	midnight alt	54°	chart	11 to 20	transit	2019-01-03 23:06 58°			end alt	19°	<div>Bright nebula in Orion</div> <div>M 78</div> <div>M 78, NGC 2068</div>	<table><tr><td>mag</td><td>8.0</td><td>rise</td><td>2019-01-03 17:07</td></tr><tr><td>ra</td><td>05h46m48s</td><td>set</td><td>2019-01-04 05:04</td></tr><tr><td>dec</td><td>+0d05m00s</td><td>start alt</td><td>46°</td></tr><tr><td>size</td><td>8.0 x 6.0</td><td>midnight alt</td><td>54°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 23:06 58°</td></tr><tr><td></td><td></td><td>end alt</td><td>19°</td></tr></table>	mag	8.0	rise	2019-01-03 17:07	ra	05h46m48s	set	2019-01-04 05:04	dec	+0d05m00s	start alt	46°	size	8.0 x 6.0	midnight alt	54°	chart	11 to 20	transit	2019-01-03 23:06 58°			end alt	19°
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dec	+0d05m00s	start alt	46°																																																
size	8.0 x 6.0	midnight alt	54°																																																
chart	11 to 20	transit	2019-01-03 23:06 58°																																																
		end alt	19°																																																
<div>Bright nebula in Orion</div> <div>NGC 1973</div> <div>NGC 1973, Ced 55B</div>	<table><tr><td>mag</td><td>7.0</td><td>rise</td><td>2019-01-03 16:43</td></tr><tr><td>ra</td><td>05h35m06s</td><td>set</td><td>2019-01-04 05:05</td></tr><tr><td>dec</td><td>-4d44m00s</td><td>start alt</td><td>51°</td></tr><tr><td>size</td><td>5.0 x 5.0</td><td>midnight alt</td><td>57°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:54 63°</td></tr><tr><td></td><td></td><td>end alt</td><td>19°</td></tr></table>	mag	7.0	rise	2019-01-03 16:43	ra	05h35m06s	set	2019-01-04 05:05	dec	-4d44m00s	start alt	51°	size	5.0 x 5.0	midnight alt	57°	chart	11 to 20	transit	2019-01-03 22:54 63°			end alt	19°	<div>Bright nebula in Orion</div> <div>NGC 1975</div> <div>NGC 1975, Ced 55C</div>	<table><tr><td>mag</td><td>7.0</td><td>rise</td><td>2019-01-03 16:44</td></tr><tr><td>ra</td><td>05h35m18s</td><td>set</td><td>2019-01-04 05:05</td></tr><tr><td>dec</td><td>-4d41m00s</td><td>start alt</td><td>51°</td></tr><tr><td>size</td><td>10.0 x 5.0</td><td>midnight alt</td><td>57°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:54 63°</td></tr><tr><td></td><td></td><td>end alt</td><td>19°</td></tr></table>	mag	7.0	rise	2019-01-03 16:44	ra	05h35m18s	set	2019-01-04 05:05	dec	-4d41m00s	start alt	51°	size	10.0 x 5.0	midnight alt	57°	chart	11 to 20	transit	2019-01-03 22:54 63°			end alt	19°
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		end alt	19°																																																
<div>Bright nebula in Orion</div> <div>NGC 2023</div> <div>NGC 2023, LBN 953</div>	<table><tr><td>mag</td><td>0.0</td><td>rise</td><td>2019-01-03 16:56</td></tr><tr><td>ra</td><td>05h41m36s</td><td>set</td><td>2019-01-04 05:05</td></tr><tr><td>dec</td><td>-2d16m00s</td><td>start alt</td><td>48°</td></tr><tr><td>size</td><td>10.0 x 8.0</td><td>midnight alt</td><td>55°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 23:00 60°</td></tr><tr><td></td><td></td><td>end alt</td><td>19°</td></tr></table>	mag	0.0	rise	2019-01-03 16:56	ra	05h41m36s	set	2019-01-04 05:05	dec	-2d16m00s	start alt	48°	size	10.0 x 8.0	midnight alt	55°	chart	11 to 20	transit	2019-01-03 23:00 60°			end alt	19°	<div>Bright nebula in Orion</div> <div>Running Man</div> <div>NGC 1977,</div>	<table><tr><td>mag</td><td>7.0</td><td>rise</td><td>2019-01-03 16:43</td></tr><tr><td>ra</td><td>05h35m18s</td><td>set</td><td>2019-01-04 05:05</td></tr><tr><td>dec</td><td>-4d51m00s</td><td>start alt</td><td>51°</td></tr><tr><td>size</td><td>20.0 x 10.0</td><td>midnight alt</td><td>57°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:54 63°</td></tr><tr><td></td><td></td><td>end alt</td><td>19°</td></tr></table>	mag	7.0	rise	2019-01-03 16:43	ra	05h35m18s	set	2019-01-04 05:05	dec	-4d51m00s	start alt	51°	size	20.0 x 10.0	midnight alt	57°	chart	11 to 20	transit	2019-01-03 22:54 63°			end alt	19°
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<div>Bright nebula in Orion</div> <div>De Mairan's Nebula</div> <div>M 43, NGC 1982</div>	<table><tr><td>mag</td><td>7.0</td><td>rise</td><td>2019-01-03 16:42</td></tr><tr><td>ra</td><td>05h35m30s</td><td>set</td><td>2019-01-04 05:06</td></tr><tr><td>dec</td><td>-5d16m00s</td><td>start alt</td><td>51°</td></tr><tr><td>size</td><td>20.0 x 15.0</td><td>midnight alt</td><td>57°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:54 63°</td></tr><tr><td></td><td></td><td>end alt</td><td>20°</td></tr></table>	mag	7.0	rise	2019-01-03 16:42	ra	05h35m30s	set	2019-01-04 05:06	dec	-5d16m00s	start alt	51°	size	20.0 x 15.0	midnight alt	57°	chart	11 to 20	transit	2019-01-03 22:54 63°			end alt	20°	<div>Diffuse nebula in Orion</div> <div>Orion Nebula</div> <div>M 42, NGC 1976, Sh 2-281, LBN 974</div>	<table><tr><td>mag</td><td>4.0</td><td>rise</td><td>2019-01-03 16:42</td></tr><tr><td>ra</td><td>05h35m18s</td><td>set</td><td>2019-01-04 05:06</td></tr><tr><td>dec</td><td>-5d23m00s</td><td>start alt</td><td>52°</td></tr><tr><td>size</td><td>90.0 x 60.0</td><td>midnight alt</td><td>57°</td></tr><tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:54 63°</td></tr><tr><td></td><td></td><td>end alt</td><td>20°</td></tr></table>	mag	4.0	rise	2019-01-03 16:42	ra	05h35m18s	set	2019-01-04 05:06	dec	-5d23m00s	start alt	52°	size	90.0 x 60.0	midnight alt	57°	chart	11 to 20	transit	2019-01-03 22:54 63°			end alt	20°
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Bright nebula in Orion NGC 1980 <i>NGC 1980,</i>	<table> <tr><td>mag</td><td>2.5</td><td>rise</td><td>2019-01-03 16:41</td></tr> <tr><td>ra</td><td>05h35m24s</td><td>set</td><td>2019-01-04 05:08</td></tr> <tr><td>dec</td><td>-5d55m00s</td><td>start alt</td><td>52°</td></tr> <tr><td>size</td><td>14.0 x 14.0</td><td>midnight alt</td><td>58°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:54 64°</td></tr> <tr><td></td><td></td><td>end alt</td><td>20°</td></tr> </table>	mag	2.5	rise	2019-01-03 16:41	ra	05h35m24s	set	2019-01-04 05:08	dec	-5d55m00s	start alt	52°	size	14.0 x 14.0	midnight alt	58°	chart	11 to 20	transit	2019-01-03 22:54 64°			end alt	20°	Galaxy in Lepus NGC 1744 <i>NGC 1744, ESO 486-5, IRAS 04579-2605, MCG -4-12-29, PGC 16517</i>	<table> <tr><td>mag</td><td>11.1</td><td>rise</td><td>2019-01-03 15:10</td></tr> <tr><td>ra</td><td>04h59m58s</td><td>set</td><td>2019-01-04 05:27</td></tr> <tr><td>dec</td><td>-26d01m22s</td><td>start alt</td><td>71°</td></tr> <tr><td>size</td><td>7.4 x 3.5</td><td>midnight alt</td><td>64°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:19 84°</td></tr> <tr><td></td><td></td><td>end alt</td><td>22°</td></tr> </table>	mag	11.1	rise	2019-01-03 15:10	ra	04h59m58s	set	2019-01-04 05:27	dec	-26d01m22s	start alt	71°	size	7.4 x 3.5	midnight alt	64°	chart	11 to 20	transit	2019-01-03 22:19 84°			end alt	22°
mag	2.5	rise	2019-01-03 16:41																																																
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Galaxy in Horologium NGC 1448 <i>NGC 1448, NGC 1457, ESO 249-16, AM 0342-444, MCG -7-8-5, PGC 13727</i>	<table> <tr><td>mag</td><td>10.7</td><td>rise</td><td>2019-01-03 12:35</td></tr> <tr><td>ra</td><td>03h44m31s</td><td>set</td><td>2019-01-04 05:32</td></tr> <tr><td>dec</td><td>-44d38m45s</td><td>start alt</td><td>76°</td></tr> <tr><td>size</td><td>7.6 x 1.7</td><td>midnight alt</td><td>50°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 21:03 77°</td></tr> <tr><td></td><td></td><td>end alt</td><td>16°</td></tr> </table>	mag	10.7	rise	2019-01-03 12:35	ra	03h44m31s	set	2019-01-04 05:32	dec	-44d38m45s	start alt	76°	size	7.6 x 1.7	midnight alt	50°	chart	11 to 20	transit	2019-01-03 21:03 77°			end alt	16°	Diffuse nebula in Monoceros Cone Nebula <i>NGC 2264, Sh 2-273</i>	<table> <tr><td>mag</td><td>3.9</td><td>rise</td><td>2019-01-03 18:25</td></tr> <tr><td>ra</td><td>06h41m00s</td><td>set</td><td>2019-01-04 05:34</td></tr> <tr><td>dec</td><td>+9d54m00s</td><td>start alt</td><td>29°</td></tr> <tr><td>size</td><td>20.0 x 20.0</td><td>midnight alt</td><td>48°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 00:00 48°</td></tr> <tr><td></td><td></td><td>end alt</td><td>24°</td></tr> </table>	mag	3.9	rise	2019-01-03 18:25	ra	06h41m00s	set	2019-01-04 05:34	dec	+9d54m00s	start alt	29°	size	20.0 x 20.0	midnight alt	48°	chart	21 to 30	transit	2019-01-04 00:00 48°			end alt	24°
mag	10.7	rise	2019-01-03 12:35																																																
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Bright nebula in Monoceros NGC 2239 <i>NGC 2239,</i>	<table> <tr><td>mag</td><td>4.8</td><td>rise</td><td>2019-01-03 18:04</td></tr> <tr><td>ra</td><td>06h31m54s</td><td>set</td><td>2019-01-04 05:37</td></tr> <tr><td>dec</td><td>+4d57m00s</td><td>start alt</td><td>34°</td></tr> <tr><td>size</td><td>24.0 x 24.0</td><td>midnight alt</td><td>52°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-03 23:51 53°</td></tr> <tr><td></td><td></td><td>end alt</td><td>25°</td></tr> </table>	mag	4.8	rise	2019-01-03 18:04	ra	06h31m54s	set	2019-01-04 05:37	dec	+4d57m00s	start alt	34°	size	24.0 x 24.0	midnight alt	52°	chart	21 to 30	transit	2019-01-03 23:51 53°			end alt	25°	Galaxy in Horologium NGC 1512 <i>NGC 1512, ESO 250-4, AM 0402-433, IRAS 04022-4329, MCG -7-9-7, PGC 14391</i>	<table> <tr><td>mag</td><td>10.3</td><td>rise</td><td>2019-01-03 13:02</td></tr> <tr><td>ra</td><td>04h03m54s</td><td>set</td><td>2019-01-04 05:43</td></tr> <tr><td>dec</td><td>-43d20m56s</td><td>start alt</td><td>77°</td></tr> <tr><td>size</td><td>8.9 x 5.6</td><td>midnight alt</td><td>54°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 21:23 78°</td></tr> <tr><td></td><td></td><td>end alt</td><td>19°</td></tr> </table>	mag	10.3	rise	2019-01-03 13:02	ra	04h03m54s	set	2019-01-04 05:43	dec	-43d20m56s	start alt	77°	size	8.9 x 5.6	midnight alt	54°	chart	11 to 20	transit	2019-01-03 21:23 78°			end alt	19°
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Galaxy in Horologium NGC 1433 <i>NGC 1433, ESO 249-14, AM 0340-472, IRAS 03404-4722, PGC 13586</i>	<table> <tr><td>mag</td><td>9.9</td><td>rise</td><td>2019-01-03 12:16</td></tr> <tr><td>ra</td><td>03h42m01s</td><td>set</td><td>2019-01-04 05:46</td></tr> <tr><td>dec</td><td>-47d13m19s</td><td>start alt</td><td>74°</td></tr> <tr><td>size</td><td>6.5 x 5.9</td><td>midnight alt</td><td>50°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 21:01 74°</td></tr> <tr><td></td><td></td><td>end alt</td><td>17°</td></tr> </table>	mag	9.9	rise	2019-01-03 12:16	ra	03h42m01s	set	2019-01-04 05:46	dec	-47d13m19s	start alt	74°	size	6.5 x 5.9	midnight alt	50°	chart	11 to 20	transit	2019-01-03 21:01 74°			end alt	17°	Globular cluster in Lepus M 79 <i>M 79, NGC 1904, ESO 487-SC7, GCL 10</i>	<table> <tr><td>mag</td><td>7.7</td><td>rise</td><td>2019-01-03 15:39</td></tr> <tr><td>ra</td><td>05h24m11s</td><td>set</td><td>2019-01-04 05:47</td></tr> <tr><td>dec</td><td>-24d31m25s</td><td>start alt</td><td>65°</td></tr> <tr><td>size</td><td>9.6 x 9.6</td><td>midnight alt</td><td>68°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:43 82°</td></tr> <tr><td></td><td></td><td>end alt</td><td>26°</td></tr> </table>	mag	7.7	rise	2019-01-03 15:39	ra	05h24m11s	set	2019-01-04 05:47	dec	-24d31m25s	start alt	65°	size	9.6 x 9.6	midnight alt	68°	chart	11 to 20	transit	2019-01-03 22:43 82°			end alt	26°
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Galaxy in Lepus NGC 1964 <i>NGC 1964, ESO 554-10, IRAS 05312-2158, MCG -4-14-3, PGC 17436</i>	<table> <tr><td>mag</td><td>10.8</td><td>rise</td><td>2019-01-03 15:56</td></tr> <tr><td>ra</td><td>05h33m22s</td><td>set</td><td>2019-01-04 05:48</td></tr> <tr><td>dec</td><td>-21d56m43s</td><td>start alt</td><td>62°</td></tr> <tr><td>size</td><td>5.6 x 1.8</td><td>midnight alt</td><td>69°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:52 80°</td></tr> <tr><td></td><td></td><td>end alt</td><td>27°</td></tr> </table>	mag	10.8	rise	2019-01-03 15:56	ra	05h33m22s	set	2019-01-04 05:48	dec	-21d56m43s	start alt	62°	size	5.6 x 1.8	midnight alt	69°	chart	11 to 20	transit	2019-01-03 22:52 80°			end alt	27°	Galaxy in Columba NGC 1792 <i>NGC 1792, ESO 305-6, AM 0503-380, IRAS 05035-3802, MCG -6-12-4, PGC 16709</i>	<table> <tr><td>mag</td><td>10.2</td><td>rise</td><td>2019-01-03 14:30</td></tr> <tr><td>ra</td><td>05h05m14s</td><td>set</td><td>2019-01-04 06:17</td></tr> <tr><td>dec</td><td>-37d58m47s</td><td>start alt</td><td>71°</td></tr> <tr><td>size</td><td>5.2 x 2.6</td><td>midnight alt</td><td>66°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 22:24 83°</td></tr> <tr><td></td><td></td><td>end alt</td><td>28°</td></tr> </table>	mag	10.2	rise	2019-01-03 14:30	ra	05h05m14s	set	2019-01-04 06:17	dec	-37d58m47s	start alt	71°	size	5.2 x 2.6	midnight alt	66°	chart	11 to 20	transit	2019-01-03 22:24 83°			end alt	28°
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		end alt	28°																																																

Galaxy in Columba	mag	rise	mag	rise
NGC 1808	9.9	2019-01-03 14:35	NGC 1851	7.1
NGC 1808, ESO 305-8, AM 0505-373, IRAS 05059-3734, MCG -6-12-5, PGC 16779	ra	set	ra	set
	05h07m43s	2019-01-04 06:18	NGC 1851, ESO 305-SC16, C 73, GCL 9	05h14m06s
	dec	start alt	dec	start alt
	-37d30m48s	70°		-40d02m48s
	size	midnight alt	size	midnight alt
	6.5 x 3.9	67°		12.0 x 12.0
	chart	transit	chart	transit
	11 to 20	2019-01-03 22:26		11 to 20
		84°		
		end alt		end alt
		28°		30°

Globular cluster in Horologium	mag	rise	Open cluster in Monoceros	mag	rise
NGC 1261	8.3	2019-01-03 10:24	M 50	5.9	2019-01-03 18:01
NGC 1261, ESO 155-SC11, C 87, GCL 5	ra	set	M 50, NGC 2323, OCL 559	ra	set
	03h12m15s	2019-01-04 06:38		07h02m48s	2019-01-04 06:41
	dec	start alt		dec	start alt
	-55d12m59s	66°		-8d22m33s	37°
	size	midnight alt		size	midnight alt
	6.8 x 6.8	44°		15.0 x 15.0	66°
	chart	transit		chart	transit
	11 to 20	2019-01-03 20:31		21 to 30	2019-01-04 00:21
		66°			66°
		end alt			end alt
		17°			40°

Bright nebula in Canis Major	mag	rise	Open cluster in Canis Major	mag	rise
NGC 2327	0.0	2019-01-03 17:55	M 41	4.5	2019-01-03 17:11
NGC 2327, Ced 89B	ra	set	M 41, NGC 2287, ESO 557-SC14, OCL 597	ra	set
	07h04m06s	2019-01-04 06:50		06h46m00s	2019-01-04 06:57
	dec	start alt		dec	start alt
	-11d19m00s	38°		-20d45m24s	46°
	size	midnight alt		size	midnight alt
	20.0 x 20.0	69°		39.0 x 39.0	78°
	chart	transit		chart	transit
	21 to 30	2019-01-04 00:23		21 to 30	2019-01-04 00:04
		69°			79°
		end alt			end alt
		42°			42°

Open cluster in Cancer	mag	rise	Diffuse nebula in Canis Major	mag	rise
Beehive Cluster	3.1	2019-01-03 20:50	Thor's Helmet	0.0	2019-01-03 18:05
M 44, NGC 2632, OCL 507	ra	set	NGC 2359, Sh 2-298, LBN 1041	ra	set
	08h40m24s	2019-01-04 07:07		07h18m30s	2019-01-04 07:09
	dec	start alt		dec	start alt
	+19d40m12s	1°		-13d14m00s	36°
	size	midnight alt		size	midnight alt
	72.0 x 72.0	32°		10.0 x 5.0	70°
	chart	transit		chart	transit
	21 to 30	2019-01-04 01:59		21 to 30	2019-01-04 00:37
		38°			71°
		end alt			end alt
		34°			46°

Galaxy in Dorado	mag	rise	Galaxy in Canis Major	mag	rise
NGC 1515	11.2	2019-01-03 11:31	NGC 2280	10.3	2019-01-03 16:49
NGC 1515, ESO 156-36, AM 0402-541, IRAS 04028-5414, PGC 14397	ra	set	NGC 2280, ESO 427-2, AM 0642-273, IRAS 06428-2735, MCG -5-16-20, PGC 19531, UGCA 131	ra	set
	04h04m02s	2019-01-04 07:14		06h44m49s	2019-01-04 07:17
	dec	start alt		dec	start alt
	-54d06m00s	67°		-27d38m20s	49°
	size	midnight alt		size	midnight alt
	5.4 x 1.3	52°		6.3 x 3.0	85°
	chart	transit		chart	transit
	11 to 20	2019-01-03 21:23		21 to 30	2019-01-04 00:03
		67°			86°
		end alt			end alt
		23°			44°

Open cluster in Puppis M 47 <i>M 47, NGC 2422</i>	<table> <tr><td>mag</td><td>4.4</td><td>rise</td><td>2019-01-03 18:19</td></tr> <tr><td>ra</td><td>07h36m36s</td><td>set</td><td>2019-01-04 07:31</td></tr> <tr><td>dec</td><td>-14d29m00s</td><td>start alt</td><td>33°</td></tr> <tr><td>size</td><td>30.0 x 30.0</td><td>midnight alt</td><td>70°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 00:55 72°</td></tr> <tr><td></td><td></td><td>end alt</td><td>50°</td></tr> </table>	mag	4.4	rise	2019-01-03 18:19	ra	07h36m36s	set	2019-01-04 07:31	dec	-14d29m00s	start alt	33°	size	30.0 x 30.0	midnight alt	70°	chart	21 to 30	transit	2019-01-04 00:55 72°			end alt	50°	Open cluster in Puppis M 46 <i>M 46, NGC 2437, OCL 601</i>	<table> <tr><td>mag</td><td>6.1</td><td>rise</td><td>2019-01-03 18:24</td></tr> <tr><td>ra</td><td>07h41m47s</td><td>set</td><td>2019-01-04 07:37</td></tr> <tr><td>dec</td><td>-14d48m36s</td><td>start alt</td><td>32°</td></tr> <tr><td>size</td><td>20.0 x 20.0</td><td>midnight alt</td><td>70°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 01:00 73°</td></tr> <tr><td></td><td></td><td>end alt</td><td>51°</td></tr> </table>	mag	6.1	rise	2019-01-03 18:24	ra	07h41m47s	set	2019-01-04 07:37	dec	-14d48m36s	start alt	32°	size	20.0 x 20.0	midnight alt	70°	chart	21 to 30	transit	2019-01-04 01:00 73°			end alt	51°
mag	4.4	rise	2019-01-03 18:19																																																
ra	07h36m36s	set	2019-01-04 07:31																																																
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mag	6.1	rise	2019-01-03 18:24																																																
ra	07h41m47s	set	2019-01-04 07:37																																																
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size	20.0 x 20.0	midnight alt	70°																																																
chart	21 to 30	transit	2019-01-04 01:00 73°																																																
		end alt	51°																																																
Open cluster in Cancer M 67 <i>M 67, NGC 2682, OCL 549</i>	<table> <tr><td>mag</td><td>6.9</td><td>rise</td><td>2019-01-03 20:40</td></tr> <tr><td>ra</td><td>08h51m18s</td><td>set</td><td>2019-01-04 07:39</td></tr> <tr><td>dec</td><td>+11d49m00s</td><td>start alt</td><td>3°</td></tr> <tr><td>size</td><td>25.0 x 25.0</td><td>midnight alt</td><td>38°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 02:10 46°</td></tr> <tr><td></td><td></td><td>end alt</td><td>42°</td></tr> </table>	mag	6.9	rise	2019-01-03 20:40	ra	08h51m18s	set	2019-01-04 07:39	dec	+11d49m00s	start alt	3°	size	25.0 x 25.0	midnight alt	38°	chart	21 to 30	transit	2019-01-04 02:10 46°			end alt	42°	Galaxy in Dorado NGC 1566 <i>NGC 1566, ESO 157-20, IRAS 04189-5503, PGC 14897</i>	<table> <tr><td>mag</td><td>9.7</td><td>rise</td><td>2019-01-03 11:35</td></tr> <tr><td>ra</td><td>04h20m01s</td><td>set</td><td>2019-01-04 07:42</td></tr> <tr><td>dec</td><td>-54d56m14s</td><td>start alt</td><td>65°</td></tr> <tr><td>size</td><td>8.2 x 6.5</td><td>midnight alt</td><td>54°</td></tr> <tr><td>chart</td><td>11 to 20</td><td>transit</td><td>2019-01-03 21:38 66°</td></tr> <tr><td></td><td></td><td>end alt</td><td>26°</td></tr> </table>	mag	9.7	rise	2019-01-03 11:35	ra	04h20m01s	set	2019-01-04 07:42	dec	-54d56m14s	start alt	65°	size	8.2 x 6.5	midnight alt	54°	chart	11 to 20	transit	2019-01-03 21:38 66°			end alt	26°
mag	6.9	rise	2019-01-03 20:40																																																
ra	08h51m18s	set	2019-01-04 07:39																																																
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size	25.0 x 25.0	midnight alt	38°																																																
chart	21 to 30	transit	2019-01-04 02:10 46°																																																
		end alt	42°																																																
mag	9.7	rise	2019-01-03 11:35																																																
ra	04h20m01s	set	2019-01-04 07:42																																																
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size	8.2 x 6.5	midnight alt	54°																																																
chart	11 to 20	transit	2019-01-03 21:38 66°																																																
		end alt	26°																																																
Open cluster in Hydra M 48 <i>M 48, NGC 2548, OCL 584</i>	<table> <tr><td>mag</td><td>5.8</td><td>rise</td><td>2019-01-03 19:19</td></tr> <tr><td>ra</td><td>08h13m43s</td><td>set</td><td>2019-01-04 07:45</td></tr> <tr><td>dec</td><td>-5d45m02s</td><td>start alt</td><td>20°</td></tr> <tr><td>size</td><td>30.0 x 30.0</td><td>midnight alt</td><td>58°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 01:32 64°</td></tr> <tr><td></td><td></td><td>end alt</td><td>51°</td></tr> </table>	mag	5.8	rise	2019-01-03 19:19	ra	08h13m43s	set	2019-01-04 07:45	dec	-5d45m02s	start alt	20°	size	30.0 x 30.0	midnight alt	58°	chart	21 to 30	transit	2019-01-04 01:32 64°			end alt	51°	Globular cluster in Puppis NGC 2298 <i>NGC 2298, ESO 366-SC22, GCL 11</i>	<table> <tr><td>mag</td><td>9.3</td><td>rise</td><td>2019-01-03 16:22</td></tr> <tr><td>ra</td><td>06h48m59s</td><td>set</td><td>2019-01-04 07:53</td></tr> <tr><td>dec</td><td>-36d00m17s</td><td>start alt</td><td>50°</td></tr> <tr><td>size</td><td>5.0 x 5.0</td><td>midnight alt</td><td>85°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 00:07 85°</td></tr> <tr><td></td><td></td><td>end alt</td><td>47°</td></tr> </table>	mag	9.3	rise	2019-01-03 16:22	ra	06h48m59s	set	2019-01-04 07:53	dec	-36d00m17s	start alt	50°	size	5.0 x 5.0	midnight alt	85°	chart	21 to 30	transit	2019-01-04 00:07 85°			end alt	47°
mag	5.8	rise	2019-01-03 19:19																																																
ra	08h13m43s	set	2019-01-04 07:45																																																
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size	30.0 x 30.0	midnight alt	58°																																																
chart	21 to 30	transit	2019-01-04 01:32 64°																																																
		end alt	51°																																																
mag	9.3	rise	2019-01-03 16:22																																																
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dec	-36d00m17s	start alt	50°																																																
size	5.0 x 5.0	midnight alt	85°																																																
chart	21 to 30	transit	2019-01-04 00:07 85°																																																
		end alt	47°																																																
Open cluster in Puppis M 93 <i>M 93, NGC 2447, ESO 493-SC7, OCL 649</i>	<table> <tr><td>mag</td><td>6.2</td><td>rise</td><td>2019-01-03 18:01</td></tr> <tr><td>ra</td><td>07h44m30s</td><td>set</td><td>2019-01-04 08:05</td></tr> <tr><td>dec</td><td>-23d51m24s</td><td>start alt</td><td>35°</td></tr> <tr><td>size</td><td>10.0 x 10.0</td><td>midnight alt</td><td>76°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 01:03 82°</td></tr> <tr><td></td><td></td><td>end alt</td><td>56°</td></tr> </table>	mag	6.2	rise	2019-01-03 18:01	ra	07h44m30s	set	2019-01-04 08:05	dec	-23d51m24s	start alt	35°	size	10.0 x 10.0	midnight alt	76°	chart	21 to 30	transit	2019-01-04 01:03 82°			end alt	56°	Bright nebula in Puppis NGC 2467 <i>NGC 2467,</i>	<table> <tr><td>mag</td><td>7.1</td><td>rise</td><td>2019-01-03 18:00</td></tr> <tr><td>ra</td><td>07h52m30s</td><td>set</td><td>2019-01-04 08:21</td></tr> <tr><td>dec</td><td>-26d26m00s</td><td>start alt</td><td>34°</td></tr> <tr><td>size</td><td>15.0 x 15.0</td><td>midnight alt</td><td>76°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 01:11 84°</td></tr> <tr><td></td><td></td><td>end alt</td><td>58°</td></tr> </table>	mag	7.1	rise	2019-01-03 18:00	ra	07h52m30s	set	2019-01-04 08:21	dec	-26d26m00s	start alt	34°	size	15.0 x 15.0	midnight alt	76°	chart	21 to 30	transit	2019-01-04 01:11 84°			end alt	58°
mag	6.2	rise	2019-01-03 18:01																																																
ra	07h44m30s	set	2019-01-04 08:05																																																
dec	-23d51m24s	start alt	35°																																																
size	10.0 x 10.0	midnight alt	76°																																																
chart	21 to 30	transit	2019-01-04 01:03 82°																																																
		end alt	56°																																																
mag	7.1	rise	2019-01-03 18:00																																																
ra	07h52m30s	set	2019-01-04 08:21																																																
dec	-26d26m00s	start alt	34°																																																
size	15.0 x 15.0	midnight alt	76°																																																
chart	21 to 30	transit	2019-01-04 01:11 84°																																																
		end alt	58°																																																
Galaxy in Pyxis NGC 2613 <i>NGC 2613, ESO 495-18, AM 0831-224, CGMW 2-3822, IRAS 08311-2248, MCG -4-21-3, PGC 23997, UGCA 141</i>	<table> <tr><td>mag</td><td>10.3</td><td>rise</td><td>2019-01-03 18:52</td></tr> <tr><td>ra</td><td>08h33m23s</td><td>set</td><td>2019-01-04 08:51</td></tr> <tr><td>dec</td><td>-22d58m22s</td><td>start alt</td><td>25°</td></tr> <tr><td>size</td><td>6.5 x 1.4</td><td>midnight alt</td><td>66°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 01:52 81°</td></tr> <tr><td></td><td></td><td>end alt</td><td>66°</td></tr> </table>	mag	10.3	rise	2019-01-03 18:52	ra	08h33m23s	set	2019-01-04 08:51	dec	-22d58m22s	start alt	25°	size	6.5 x 1.4	midnight alt	66°	chart	21 to 30	transit	2019-01-04 01:52 81°			end alt	66°	Bright nebula in Puppis NGC 2579 <i>NGC 2579,</i>	<table> <tr><td>mag</td><td>7.5</td><td>rise</td><td>2019-01-03 17:53</td></tr> <tr><td>ra</td><td>08h20m54s</td><td>set</td><td>2019-01-04 09:25</td></tr> <tr><td>dec</td><td>-36d13m00s</td><td>start alt</td><td>32°</td></tr> <tr><td>size</td><td>10.0 x 10.0</td><td>midnight alt</td><td>71°</td></tr> <tr><td>chart</td><td>21 to 30</td><td>transit</td><td>2019-01-04 01:39 85°</td></tr> <tr><td></td><td></td><td>end alt</td><td>66°</td></tr> </table>	mag	7.5	rise	2019-01-03 17:53	ra	08h20m54s	set	2019-01-04 09:25	dec	-36d13m00s	start alt	32°	size	10.0 x 10.0	midnight alt	71°	chart	21 to 30	transit	2019-01-04 01:39 85°			end alt	66°
mag	10.3	rise	2019-01-03 18:52																																																
ra	08h33m23s	set	2019-01-04 08:51																																																
dec	-22d58m22s	start alt	25°																																																
size	6.5 x 1.4	midnight alt	66°																																																
chart	21 to 30	transit	2019-01-04 01:52 81°																																																
		end alt	66°																																																
mag	7.5	rise	2019-01-03 17:53																																																
ra	08h20m54s	set	2019-01-04 09:25																																																
dec	-36d13m00s	start alt	32°																																																
size	10.0 x 10.0	midnight alt	71°																																																
chart	21 to 30	transit	2019-01-04 01:39 85°																																																
		end alt	66°																																																

Galaxy in Leo	mag	rise
M 95	9.7	2019-01-03 22:32
M 95, NGC 3351, CGCG 66-4, IRAS 10413+1158, MCG 2-28-1, PGC 32007, UGC 5850	ra	set
	10h43m58s	2019-01-04 09:32
	dec	start alt
	+11d42m12s	-20°
	size	midnight alt
	7.4 x 5.0	20°
	chart	transit
	31 to 40	2019-01-03 04:06 46°
		end alt
		46°

Galaxy in Hydra	mag	rise
NGC 2784	10.2	2019-01-03 19:27
NGC 2784, ESO 497-23, AM 0910-235, MCG -4-22-5, PGC 25950, UGCA 152	ra	set
	09h12m19s	2019-01-04 09:34
	dec	start alt
	-24d10m21s	17°
	size	midnight alt
	5.5 x 2.2	59°
	chart	transit
	31 to 40	2019-01-04 02:30 82°
		end alt
		74°

Galaxy in Leo	mag	rise
M 96	9.3	2019-01-03 22:35
M 96, NGC 3368, CGCG 66-13, IRAS 10441+1205, MCG 2-28-6, PGC 32192, UGC 5882	ra	set
	10h46m46s	2019-01-04 09:34
	dec	start alt
	+11d49m12s	-20°
	size	midnight alt
	7.8 x 5.2	19°
	chart	transit
	31 to 40	2019-01-03 04:09 46°
		end alt
		45°

Galaxy in Sextans	mag	rise
NGC 3115	8.9	2019-01-03 21:05
NGC 3115, C 53, MCG -1-26-18, PGC 29265, UGCA 199	ra	set
	10h05m14s	2019-01-04 09:42
	dec	start alt
	-7d43m05s	-1°
	size	midnight alt
	7.2 x 2.4	39°
	chart	transit
	31 to 40	2019-01-04 03:21 66°
		end alt
		66°

Bright nebula in Vela	mag	rise
NGC 2626	0.0	2019-01-03 17:47
NGC 2626, ESO 313-N*4	ra	set
	08h35m30s	2019-01-04 10:00
	dec	start alt
	-40d40m00s	31°
	size	midnight alt
	5.0 x 5.0	68°
	chart	transit
	21 to 30	2019-01-04 01:54 80°
		end alt
		68°

Galaxy in Leo	mag	rise
M 65	9.3	2019-01-03 23:10
M 65, NGC 3623, Arp 317, CGCG 67-54, IRAS 11163+1322, MCG 2-29-18, PGC 34612, UGC 6328, V V 308	ra	set
	11h18m56s	2019-01-04 10:03
	dec	start alt
	+13d05m27s	-28°
	size	midnight alt
	9.8 x 2.9	12°
	chart	transit
	31 to 40	2019-01-03 04:41 45°
		end alt
		42°

Galaxy in Leo	mag	rise
M 66	8.9	2019-01-03 23:11
M 66, NGC 3627, ARAK 288, Arp 16, Arp 317, CGCG 67-57, MCG 2-29-19, PGC 34695, UGC 6346, V V 308	ra	set
	11h20m15s	2019-01-04 10:05
	dec	start alt
	+12d59m24s	-28°
	size	midnight alt
	9.1 x 4.1	12°
	chart	transit
	31 to 40	2019-01-03 04:42 45°
		end alt
		42°

Galaxy in Antlia	mag	rise
NGC 2997	9.5	2019-01-03 19:37
NGC 2997, ESO 434-35, AM 0943-305, MCG -5-23-12, PGC 27978, UGCA 181	ra	set
	09h45m39s	2019-01-04 10:30
	dec	start alt
	-31d11m26s	14°
	size	midnight alt
	8.9 x 6.8	53°
	chart	transit
	31 to 40	2019-01-04 03:03 89°
		end alt
		84°

Galaxy in Hydra			Galaxy in Antlia		
NGC 3109	mag 9.9	rise 2019-01-03 20:11	NGC 3137	mag 11.5	rise 2019-01-03 20:08
<i>NGC 3109, ESO 499-36, AM 1000-255, DDO 236, MCG -4-24-13, PGC 29128, UGCA 194</i>	ra 10h03m07s	set 2019-01-04 10:31	<i>NGC 3137, ESO 435-47, AM 1006-284, IRAS 10068-2849, MCG -5-24-24, PGC 29530, UGCA 203</i>	ra 10h09m07s	set 2019-01-04 10:46
	dec -26d09m30s	start alt 8°		dec -29d03m49s	start alt 8°
	size 19.1 x 3.7	midnight alt 48°		size 6.2 x 2.2	midnight alt 48°
	chart 31 to 40	transit 2019-01-04 03:19 84°		chart 31 to 40	transit 2019-01-04 03:25 87°
		end alt 84°			end alt 87°
Galaxy in Antlia			Galaxy in Coma Berenices		
NGC 3175	mag 11.2	rise 2019-01-03 20:14	M 98	mag 10.1	rise 2019-01-04 00:10
<i>NGC 3175, ESO 436-3, AM 1012-283, IRAS 10124-2837, MCG -5-24-28, PGC 29892, UGCA 207, V V 796</i>	ra 10h14m42s	set 2019-01-04 10:51	<i>M 98, NGC 4192, CGCG 98-108, IRAS 12112+1510, MCG 3-31-79, PGC 39028, UGC 7231, VCC 92</i>	ra 12h13m48s	set 2019-01-04 10:53
	dec -28d52m16s	start alt 7°		dec +14d53m58s	start alt -40°
	size 5.1 x 1.3	midnight alt 47°		size 9.8 x 2.8	midnight alt 0°
	chart 31 to 40	transit 2019-01-03 03:39 87°		chart 41 to 50	transit 2019-01-03 05:35 43°
		end alt 87°			end alt 35°
Bright nebula in Vela			Galaxy in Coma Berenices		
The Pencil Nebula	mag 0.0	rise 2019-01-03 17:41	M 85	mag 9.1	rise 2019-01-04 00:30
<i>NGC 2736, RCW 37</i>	ra 09h00m24s	set 2019-01-04 10:55	<i>M 85, NGC 4382, CGCG 99-45, KCPG 334A, MCG 3-32-29, PGC 40515, UGC 7508, VCC 798</i>	ra 12h25m24s	set 2019-01-04 10:56
	dec -45d54m00s	start alt 28°		dec +18d11m27s	start alt -44°
	size 30.0 x 7.0	midnight alt 62°		size 7.1 x 5.5	midnight alt -3°
	chart 31 to 40	transit 2019-01-04 02:18 75°		chart 41 to 50	transit 2019-01-03 05:47 40°
		end alt 69°			end alt 31°
Galaxy in Coma Berenices			Galaxy in Coma Berenices		
M 99	mag 9.9	rise 2019-01-04 00:14	M 100	mag 9.4	rise 2019-01-04 00:21
<i>M 99, NGC 4254, CGCG 98-144, CGCG 99-11, IRAS 12162+1441, MCG 3-31-99, PGC 39578, UGC 7345, VCC 307</i>	ra 12h18m49s	set 2019-01-04 10:59	<i>M 100, NGC 4321, CGCG 99-30, IRAS 12204+1605, KUG 1220+160, MCG 3-32-15, PGC 40153, UGC 7450, VCC 596</i>	ra 12h22m55s	set 2019-01-04 11:00
	dec +14d25m03s	start alt -41°		dec +15d49m22s	start alt -43°
	size 5.3 x 4.6	midnight alt 0°		size 7.5 x 6.1	midnight alt -1°
	chart 41 to 50	transit 2019-01-03 05:40 44°		chart 41 to 50	transit 2019-01-03 05:44 42°
		end alt 35°			end alt 33°
Galaxy in Virgo			Galaxy in Virgo		
M 84	mag 9.1	rise 2019-01-04 00:16	M 86	mag 8.9	rise 2019-01-04 00:17
<i>M 84, NGC 4374, 3C 272.1, CGCG 70-58, IRAS 12224+1309, MCG 2-32-34, PGC 40455, UGC 7494, VCC 763</i>	ra 12h25m04s	set 2019-01-04 11:10	<i>M 86, NGC 4406, CGCG 70-72, MCG 2-32-46, PGC 40653, UGC 7532, VCC 881</i>	ra 12h26m12s	set 2019-01-04 11:11
	dec +12d53m13s	start alt -42°		dec +12d56m47s	start alt -42°
	size 6.5 x 5.6	midnight alt 0°		size 8.9 x 5.8	midnight alt 0°
	chart 41 to 50	transit 2019-01-03 05:47 45°		chart 41 to 50	transit 2019-01-03 05:48 45°
		end alt 35°			end alt 35°

Galaxy in Coma Berenices M 88 <i>M 88, NGC 4501, CGCG 99-76, MCG 3-32-59, PGC 41517, UGC 7675, VCC 1401</i>	<table> <tr><td>mag</td><td>9.6</td><td>rise</td><td>2019-01-04 00:27</td></tr> <tr><td>ra</td><td>12h31m59s</td><td>set</td><td>2019-01-04 11:13</td></tr> <tr><td>dec</td><td>+14d25m11s</td><td>start alt</td><td>-44°</td></tr> <tr><td>size</td><td>6.8 x 3.7</td><td>midnight alt</td><td>-2°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 05:54 44°</td></tr> <tr><td></td><td></td><td>end alt</td><td>33°</td></tr> </table>	mag	9.6	rise	2019-01-04 00:27	ra	12h31m59s	set	2019-01-04 11:13	dec	+14d25m11s	start alt	-44°	size	6.8 x 3.7	midnight alt	-2°	chart	41 to 50	transit	2019-01-03 05:54 44°			end alt	33°	Galaxy in Coma Berenices M 91 <i>M 91, NGC 4548, CGCG 99-96, IRAS 12328+1446, MCG 3-32-75, PGC 41934, UGC 7753, VCC 1615</i>	<table> <tr><td>mag</td><td>10.2</td><td>rise</td><td>2019-01-04 00:30</td></tr> <tr><td>ra</td><td>12h35m26s</td><td>set</td><td>2019-01-04 11:16</td></tr> <tr><td>dec</td><td>+14d29m47s</td><td>start alt</td><td>-44°</td></tr> <tr><td>size</td><td>5.2 x 4.2</td><td>midnight alt</td><td>-3°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 05:57 43°</td></tr> <tr><td></td><td></td><td>end alt</td><td>32°</td></tr> </table>	mag	10.2	rise	2019-01-04 00:30	ra	12h35m26s	set	2019-01-04 11:16	dec	+14d29m47s	start alt	-44°	size	5.2 x 4.2	midnight alt	-3°	chart	41 to 50	transit	2019-01-03 05:57 43°			end alt	32°
mag	9.6	rise	2019-01-04 00:27																																																
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mag	10.2	rise	2019-01-04 00:30																																																
ra	12h35m26s	set	2019-01-04 11:16																																																
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size	5.2 x 4.2	midnight alt	-3°																																																
chart	41 to 50	transit	2019-01-03 05:57 43°																																																
		end alt	32°																																																
Galaxy in Virgo Virgo A <i>M 87, NGC 4486, 3C 274, Arp 152, CGCG 70-139, IRAS 12282+1240, MCG 2-32-105, PGC 41361, UGC 7654, VCC 1316</i>	<table> <tr><td>mag</td><td>8.6</td><td>rise</td><td>2019-01-04 00:20</td></tr> <tr><td>ra</td><td>12h30m49s</td><td>set</td><td>2019-01-04 11:17</td></tr> <tr><td>dec</td><td>+12d23m26s</td><td>start alt</td><td>-42°</td></tr> <tr><td>size</td><td>8.3 x 6.6</td><td>midnight alt</td><td>-1°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 05:52 46°</td></tr> <tr><td></td><td></td><td>end alt</td><td>35°</td></tr> </table>	mag	8.6	rise	2019-01-04 00:20	ra	12h30m49s	set	2019-01-04 11:17	dec	+12d23m26s	start alt	-42°	size	8.3 x 6.6	midnight alt	-1°	chart	41 to 50	transit	2019-01-03 05:52 46°			end alt	35°	Galaxy in Coma Berenices Black Eye Galaxy <i>M 64, NGC 4826, CGCG 130-1, IRAS 12542+2157, KARA 559, MCG 4-31-1, PGC 44182, UGC 8062</i>	<table> <tr><td>mag</td><td>8.5</td><td>rise</td><td>2019-01-04 01:12</td></tr> <tr><td>ra</td><td>12h56m44s</td><td>set</td><td>2019-01-04 11:17</td></tr> <tr><td>dec</td><td>+21d40m59s</td><td>start alt</td><td>-52°</td></tr> <tr><td>size</td><td>10.0 x 5.4</td><td>midnight alt</td><td>-11°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 06:18 36°</td></tr> <tr><td></td><td></td><td>end alt</td><td>23°</td></tr> </table>	mag	8.5	rise	2019-01-04 01:12	ra	12h56m44s	set	2019-01-04 11:17	dec	+21d40m59s	start alt	-52°	size	10.0 x 5.4	midnight alt	-11°	chart	41 to 50	transit	2019-01-03 06:18 36°			end alt	23°
mag	8.6	rise	2019-01-04 00:20																																																
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chart	41 to 50	transit	2019-01-03 05:52 46°																																																
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size	10.0 x 5.4	midnight alt	-11°																																																
chart	41 to 50	transit	2019-01-03 06:18 36°																																																
		end alt	23°																																																
Galaxy in Virgo M 90 <i>M 90, NGC 4569, Arp 76, CGCG 70-192, IRAS 12343+1326, MCG 2-32-155, PGC 42089, UGC 7786, VCC 1690</i>	<table> <tr><td>mag</td><td>9.5</td><td>rise</td><td>2019-01-04 00:28</td></tr> <tr><td>ra</td><td>12h36m50s</td><td>set</td><td>2019-01-04 11:21</td></tr> <tr><td>dec</td><td>+13d09m50s</td><td>start alt</td><td>-44°</td></tr> <tr><td>size</td><td>9.5 x 4.4</td><td>midnight alt</td><td>-2°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 05:58 45°</td></tr> <tr><td></td><td></td><td>end alt</td><td>33°</td></tr> </table>	mag	9.5	rise	2019-01-04 00:28	ra	12h36m50s	set	2019-01-04 11:21	dec	+13d09m50s	start alt	-44°	size	9.5 x 4.4	midnight alt	-2°	chart	41 to 50	transit	2019-01-03 05:58 45°			end alt	33°	Galaxy in Virgo M 89 <i>M 89, NGC 4552, CGCG 70-184, MCG 2-32-149, PGC 41968, UGC 7760, VCC 1632</i>	<table> <tr><td>mag</td><td>9.8</td><td>rise</td><td>2019-01-04 00:25</td></tr> <tr><td>ra</td><td>12h35m40s</td><td>set</td><td>2019-01-04 11:21</td></tr> <tr><td>dec</td><td>+12d33m22s</td><td>start alt</td><td>-44°</td></tr> <tr><td>size</td><td>3.5 x 3.5</td><td>midnight alt</td><td>-2°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 05:57 45°</td></tr> <tr><td></td><td></td><td>end alt</td><td>34°</td></tr> </table>	mag	9.8	rise	2019-01-04 00:25	ra	12h35m40s	set	2019-01-04 11:21	dec	+12d33m22s	start alt	-44°	size	3.5 x 3.5	midnight alt	-2°	chart	41 to 50	transit	2019-01-03 05:57 45°			end alt	34°
mag	9.5	rise	2019-01-04 00:28																																																
ra	12h36m50s	set	2019-01-04 11:21																																																
dec	+13d09m50s	start alt	-44°																																																
size	9.5 x 4.4	midnight alt	-2°																																																
chart	41 to 50	transit	2019-01-03 05:58 45°																																																
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mag	9.8	rise	2019-01-04 00:25																																																
ra	12h35m40s	set	2019-01-04 11:21																																																
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size	3.5 x 3.5	midnight alt	-2°																																																
chart	41 to 50	transit	2019-01-03 05:57 45°																																																
		end alt	34°																																																
Galaxy in Crater NGC 3511 <i>NGC 3511, ESO 502-13, IRAS 11009-2248, MCG -4-26-20, PGC 33385, UGCA 223</i>	<table> <tr><td>mag</td><td>11.0</td><td>rise</td><td>2019-01-03 21:21</td></tr> <tr><td>ra</td><td>11h03m24s</td><td>set</td><td>2019-01-04 11:21</td></tr> <tr><td>dec</td><td>-23d05m11s</td><td>start alt</td><td>-4°</td></tr> <tr><td>size</td><td>6.0 x 2.1</td><td>midnight alt</td><td>35°</td></tr> <tr><td>chart</td><td>31 to 40</td><td>transit</td><td>2019-01-03 04:25 81°</td></tr> <tr><td></td><td></td><td>end alt</td><td>76°</td></tr> </table>	mag	11.0	rise	2019-01-03 21:21	ra	11h03m24s	set	2019-01-04 11:21	dec	-23d05m11s	start alt	-4°	size	6.0 x 2.1	midnight alt	35°	chart	31 to 40	transit	2019-01-03 04:25 81°			end alt	76°	Galaxy in Virgo M 58 <i>M 58, NGC 4579, CGCG 70-197, IRAS 12351+1205, MCG 2-32-160, PGC 42168, UGC 7796, VCC 1727</i>	<table> <tr><td>mag</td><td>9.7</td><td>rise</td><td>2019-01-04 00:26</td></tr> <tr><td>ra</td><td>12h37m44s</td><td>set</td><td>2019-01-04 11:25</td></tr> <tr><td>dec</td><td>+11d49m06s</td><td>start alt</td><td>-44°</td></tr> <tr><td>size</td><td>6.0 x 4.8</td><td>midnight alt</td><td>-2°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 05:59 46°</td></tr> <tr><td></td><td></td><td>end alt</td><td>34°</td></tr> </table>	mag	9.7	rise	2019-01-04 00:26	ra	12h37m44s	set	2019-01-04 11:25	dec	+11d49m06s	start alt	-44°	size	6.0 x 4.8	midnight alt	-2°	chart	41 to 50	transit	2019-01-03 05:59 46°			end alt	34°
mag	11.0	rise	2019-01-03 21:21																																																
ra	11h03m24s	set	2019-01-04 11:21																																																
dec	-23d05m11s	start alt	-4°																																																
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chart	31 to 40	transit	2019-01-03 04:25 81°																																																
		end alt	76°																																																
mag	9.7	rise	2019-01-04 00:26																																																
ra	12h37m44s	set	2019-01-04 11:25																																																
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size	6.0 x 4.8	midnight alt	-2°																																																
chart	41 to 50	transit	2019-01-03 05:59 46°																																																
		end alt	34°																																																
Galaxy in Virgo M 49 <i>M 49, NGC 4472, Arp 134, CGCG 42-134, MCG 1-32-83, PGC 41220, UGC 7629, VCC 1226</i>	<table> <tr><td>mag</td><td>8.4</td><td>rise</td><td>2019-01-04 00:08</td></tr> <tr><td>ra</td><td>12h29m47s</td><td>set</td><td>2019-01-04 11:27</td></tr> <tr><td>dec</td><td>+8d00m00s</td><td>start alt</td><td>-40°</td></tr> <tr><td>size</td><td>10.2 x 8.3</td><td>midnight alt</td><td>1°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 05:51 50°</td></tr> <tr><td></td><td></td><td>end alt</td><td>38°</td></tr> </table>	mag	8.4	rise	2019-01-04 00:08	ra	12h29m47s	set	2019-01-04 11:27	dec	+8d00m00s	start alt	-40°	size	10.2 x 8.3	midnight alt	1°	chart	41 to 50	transit	2019-01-03 05:51 50°			end alt	38°	Galaxy in Virgo M 61 <i>M 61, NGC 4303, CGCG 42-45, IRAS 12194+0444, MCG 1-32-22, PGC 40001, UGC 7420, VCC 508</i>	<table> <tr><td>mag</td><td>9.7</td><td>rise</td><td>2019-01-03 23:51</td></tr> <tr><td>ra</td><td>12h21m55s</td><td>set</td><td>2019-01-04 11:28</td></tr> <tr><td>dec</td><td>+4d28m22s</td><td>start alt</td><td>-36°</td></tr> <tr><td>size</td><td>6.5 x 5.9</td><td>midnight alt</td><td>4°</td></tr> <tr><td>chart</td><td>41 to 50</td><td>transit</td><td>2019-01-03 05:43 53°</td></tr> <tr><td></td><td></td><td>end alt</td><td>42°</td></tr> </table>	mag	9.7	rise	2019-01-03 23:51	ra	12h21m55s	set	2019-01-04 11:28	dec	+4d28m22s	start alt	-36°	size	6.5 x 5.9	midnight alt	4°	chart	41 to 50	transit	2019-01-03 05:43 53°			end alt	42°
mag	8.4	rise	2019-01-04 00:08																																																
ra	12h29m47s	set	2019-01-04 11:27																																																
dec	+8d00m00s	start alt	-40°																																																
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chart	41 to 50	transit	2019-01-03 05:51 50°																																																
		end alt	38°																																																
mag	9.7	rise	2019-01-03 23:51																																																
ra	12h21m55s	set	2019-01-04 11:28																																																
dec	+4d28m22s	start alt	-36°																																																
size	6.5 x 5.9	midnight alt	4°																																																
chart	41 to 50	transit	2019-01-03 05:43 53°																																																
		end alt	42°																																																

Galaxy in Virgo					
M 59	mag	rise	mag	rise	
	9.6	2019-01-04 00:29	8.8	2019-01-04 00:31	
M 59, NGC 4621, CGCG 70-223, MCG 2-32-183, PGC 42628, UGC 7858, VCC 1903	ra	set	ra	set	
	12h42m02s	2019-01-04 11:30	12h43m40s	2019-01-04 11:32	
	dec	start alt	dec	start alt	
	+11d38m50s	-44°	+11d33m11s	-45°	
	size	midnight alt	size	midnight alt	
	5.4 x 3.7	-3°	7.6 x 6.2	-3°	
	chart	transit	chart	transit	
	41 to 50	2019-01-03 06:04 46°	41 to 50	2019-01-03 06:05 46°	
		end alt		end alt	
		34°		33°	

Globular cluster in Coma Berenices	mag	rise			
M 53	7.7	2019-01-04 01:18			
M 53, NGC 5024, GCL 22	ra	set			
	13h12m55s	2019-01-04 11:43			
	dec	start alt			
	+18d10m11s	-54°			
	size	midnight alt			
	13.0 x 13.0	-12°			
	chart	transit			
	41 to 50	2019-01-03 06:34 40°			
		end alt			
		24°			

Galaxy in Hydra					
NGC 3621	mag	rise			
	9.7	2019-01-03 21:03			
NGC 3621, ESO 377-37, AM 1115-323, IRAS 11159-3235, MCG -5-27-8, PGC 34554, UGCA 232	ra	set			
	11h18m16s	2019-01-04 12:09			
	dec	start alt			
	-32d48m40s	-1°			
	size	midnight alt			
	12.3 x 6.8	35°			
	chart	transit			
	31 to 40	2019-01-03 04:40 88°			
		end alt			
		76°			

Galaxy in Hydra					
NGC 3717	mag	rise			
	11.2	2019-01-03 21:26			
NGC 3717, ESO 439-15, AM 1129-300, IRAS 11290-3001, MCG -5-27-15, PGC 35539, UGCA 238	ra	set			
	11h31m32s	2019-01-04 12:13			
	dec	start alt			
	-30d18m30s	-4°			
	size	midnight alt			
	6.2 x 1.0	31°			
	chart	transit			
	31 to 40	2019-01-03 04:53 88°			
		end alt			
		73°			

Galaxy in Vela					
NGC 3263	mag	rise			
	11.9	2019-01-03 19:21			
NGC 3263, ESO 263-43, AM 1027-435, IRAS 10270-4351, MCG -7-22-18, PGC 30887	ra	set			
	10h29m13s	2019-01-04 12:13			
	dec	start alt			
	-44d07m22s	13°			
	size	midnight alt			
	5.1 x 1.4	46°			
	chart	transit			
	31 to 40	2019-01-03 03:51 77°			
		end alt			
		77°			

Globular cluster in Vela	mag	rise			
NGC 3201	6.9	2019-01-03 18:55			
NGC 3201, ESO 263-SC26, C 79, GCL 15	ra	set			
	10h17m37s	2019-01-04 12:16			
	dec	start alt			
	-46d24m38s	16°			
	size	midnight alt			
	20.0 x 20.0	48°			
	chart	transit			
	31 to 40	2019-01-03 03:42 75°			
		end alt			
		75°			

Galaxy in Virgo					
Sombrero Galaxy	mag	rise			
	8.0	2019-01-03 23:29			
M 104, NGC 4594, IRAS 12373-1120, MCG -2-32-20, PGC 42407, UGCA 293	ra	set			
	12h39m59s	2019-01-04 12:26			
	dec	start alt			
	-11d37m21s	-29°			
	size	midnight alt			
	8.6 x 4.2	9°			
	chart	transit			
	41 to 50	2019-01-03 06:02 70°			
		end alt			
		50°			

Globular cluster in Hydra	mag	rise			
M 68	7.3	2019-01-03 22:46			
M 68, NGC 4590, ESO 506-SC30, GCL 20	ra	set			
	12h39m28s	2019-01-04 13:09			
	dec	start alt			
	-26d44m32s	-17°			
	size	midnight alt			
	11.0 x 11.0	16°			
	chart	transit			
	41 to 50	2019-01-03 06:01 85°			
		end alt			
		57°			

Galaxy in Hydra					
Southern Pinwheel Galaxy	mag	rise			
	7.5	2019-01-03 23:33			
M 83, NGC 5236, ESO 444-81, IRAS 13342-2933, MCG -5-32-50, PGC 48082, UGCA 366	ra	set			
	13h37m00s	2019-01-04 14:17			
	dec	start alt			
	-29d52m02s	-22°			
	size	midnight alt			
	12.9 x 11.5	7°			
	chart	transit			
	41 to 50	2019-01-03 06:58 88°			
		end alt			
		46°			

<p>Bright nebula in Carina</p> <p>NGC 3199</p> <p><i>NGC 3199, ESO 127-EN14</i></p>	<p>Bright nebula in Carina</p> <p>Gabriela Mistral Nebula</p> <p><i>NGC 3324, IC 2599</i></p>
<div>mag</div> <div>0.0</div>	<div>rise</div> <div>2019-01-03 16:15</div>
<div>ra</div> <div>10h17m24s</div>	<div>set</div> <div>2019-01-04 14:56</div>
<div>dec</div> <div>-57d55m00s</div>	<div>start alt</div> <div>21°</div>
<div>size</div> <div>22.0 x 22.0</div>	<div>midnight alt</div> <div>47°</div>
<div>chart</div> <div>31 to 40</div>	<div>transit</div> <div>2019-01-03 03:41</div> <div>63°</div> <div>end alt</div> <div>63°</div>
<p>Globular cluster in Musca</p> <p>NGC 4372</p> <p><i>NGC 4372, ESO 64-SC6, C 108, GCL 19</i></p>	<p>Globular cluster in Musca</p> <p>NGC 4833</p> <p><i>NGC 4833, ESO 65-SC4, C 105, GCL 21, Lac I-4</i></p>
<div>mag</div> <div>7.2</div>	<div>rise</div> <div></div>
<div>ra</div> <div>12h25m45s</div>	<div>set</div> <div></div>
<div>dec</div> <div>-72d39m31s</div>	<div>start alt</div> <div>19°</div>
<div>size</div> <div>5.0 x 5.0</div>	<div>midnight alt</div> <div>32°</div>
<div>chart</div> <div>41 to 50</div>	<div>transit</div> <div>2019-01-03 05:47</div> <div>48°</div> <div>end alt</div> <div>45°</div>
<p>Globular cluster in Apus</p> <p>NGC 6101</p> <p><i>NGC 6101, ESO 69-SC4, C 107, GCL 40</i></p>	<p>Globular cluster in Tucana</p> <p>47 Tucanae</p> <p><i>NGC 104, ESO 50-SC9, C 106, GCL 1</i></p>
<div>mag</div> <div>9.2</div>	<div>rise</div> <div></div>
<div>ra</div> <div>16h25m49s</div>	<div>set</div> <div></div>
<div>dec</div> <div>-72d12m04s</div>	<div>start alt</div> <div>14°</div>
<div>size</div> <div>5.0 x 5.0</div>	<div>midnight alt</div> <div>17°</div>
<div>chart</div> <div>51 to 60</div>	<div>transit</div> <div>2019-01-03 09:48</div> <div>49°</div> <div>end alt</div> <div>28°</div>
<p>Globular cluster in Tucana</p> <p>NGC 152</p> <p><i>NGC 152, ESO 28-SC24</i></p>	<p>Bright nebula in Tucana</p> <p>NGC 346</p> <p><i>NGC 346, ESO 51-SC10</i></p>
<div>mag</div> <div>12.0</div>	<div>rise</div> <div></div>
<div>ra</div> <div>00h32m54s</div>	<div>set</div> <div></div>
<div>dec</div> <div>-73d07m00s</div>	<div>start alt</div> <div>42°</div>
<div>size</div> <div>30.0 x 30.0</div>	<div>midnight alt</div> <div>28°</div>
<div>chart</div> <div>1 to 10</div>	<div>transit</div> <div>2019-01-03 17:52</div> <div>48°</div> <div>end alt</div> <div>17°</div>
<p>Globular cluster in Tucana</p> <p>NGC 362</p> <p><i>NGC 362, ESO 51-SC13, C 104, GCL 3</i></p>	<p>Bright nebula in Tucana</p> <p>NGC 371</p> <p><i>NGC 371, ESO 51-SC14</i></p>
<div>mag</div> <div>6.8</div>	<div>rise</div> <div></div>
<div>ra</div> <div>01h03m14s</div>	<div>set</div> <div></div>
<div>dec</div> <div>-70d50m52s</div>	<div>start alt</div> <div>45°</div>
<div>size</div> <div>14.0 x 14.0</div>	<div>midnight alt</div> <div>30°</div>
<div>chart</div> <div>1 to 10</div>	<div>transit</div> <div>2019-01-03 18:22</div> <div>50°</div> <div>end alt</div> <div>16°</div>
	<div>transit</div> <div>2019-01-03 03:59</div> <div>62°</div> <div>end alt</div> <div>62°</div>

<div><div>Globular cluster in Tucana</div><div>NGC 376</div><div>NGC 376, ESO 29-SC29</div></div>	<div><div><div><div>mag</div><div>11.8</div></div><div><div>ra</div><div>01h03m54s</div></div><div><div>dec</div><div>-72d49m00s</div></div><div><div>size</div><div>7.9 x 7.9</div></div><div><div>chart</div><div>1 to 10</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>44°</div></div><div><div>midnight alt</div><div>30°</div></div><div><div>transit</div><div>2019-01-03 18:23 48°</div></div><div><div>end alt</div><div>18°</div></div></div></div>
<div><div><div>Bright nebula in Tucana</div><div>NGC 456</div><div>NGC 456, ESO 29-SC38</div></div></div>	<div><div><div><div>mag</div><div>0.0</div></div><div><div>ra</div><div>01h13m42s</div></div><div><div>dec</div><div>-73d18m00s</div></div><div><div>size</div><div>15.0 x 15.0</div></div><div><div>chart</div><div>1 to 10</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>44°</div></div><div><div>midnight alt</div><div>31°</div></div><div><div>transit</div><div>2019-01-03 18:33 48°</div></div><div><div>end alt</div><div>19°</div></div></div></div>
<div><div><div>Galaxy in Dorado</div><div>NGC 1672</div><div>NGC 1672, ESO 118-43, AM 0444-592, IRAS 04449-5920, PGC 15941, V V 826</div></div></div>	<div><div><div><div>mag</div><div>9.7</div></div><div><div>ra</div><div>04h45m43s</div></div><div><div>dec</div><div>-59d14m52s</div></div><div><div>size</div><div>6.7 x 5.6</div></div><div><div>chart</div><div>11 to 20</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>60°</div></div><div><div>midnight alt</div><div>54°</div></div><div><div>transit</div><div>2019-01-03 22:04 62°</div></div><div><div>end alt</div><div>30°</div></div></div></div>
<div><div><div>Bright nebula in Dorado</div><div>NGC 1747</div><div>NGC 1747, ESO 85-SC16</div></div></div>	<div><div><div><div>mag</div><div>9.4</div></div><div><div>ra</div><div>04h55m12s</div></div><div><div>dec</div><div>-67d10m00s</div></div><div><div>size</div><div>12.0 x 10.0</div></div><div><div>chart</div><div>11 to 20</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>52°</div></div><div><div>midnight alt</div><div>50°</div></div><div><div>transit</div><div>2019-01-03 22:13 54°</div></div><div><div>end alt</div><div>32°</div></div></div></div>
<div><div><div>Bright nebula in Dorado</div><div>NGC 1816</div><div>NGC 1816, ESO 85-SC37</div></div></div>	<div><div><div><div>mag</div><div>9.0</div></div><div><div>ra</div><div>05h03m48s</div></div><div><div>dec</div><div>-67d16m00s</div></div><div><div>size</div><div>16.0 x 16.0</div></div><div><div>chart</div><div>11 to 20</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>52°</div></div><div><div>midnight alt</div><div>50°</div></div><div><div>transit</div><div>2019-01-03 22:22 54°</div></div><div><div>end alt</div><div>33°</div></div></div></div>
<div><div><div>Bright nebula in Tucana</div><div>NGC 395</div><div>NGC 395, ESO 51-SC16</div></div></div>	<div><div><div><div>mag</div><div>0.0</div></div><div><div>ra</div><div>01h05m06s</div></div><div><div>dec</div><div>-72d00m00s</div></div><div><div>size</div><div>17.0 x 17.0</div></div><div><div>chart</div><div>1 to 10</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>44°</div></div><div><div>midnight alt</div><div>30°</div></div><div><div>transit</div><div>2019-01-03 18:24 49°</div></div><div><div>end alt</div><div>17°</div></div></div></div>
<div><div><div>Galaxy in Reticulum</div><div>NGC 1313</div><div>NGC 1313, ESO 82-11, AM 0317-664, IRAS 03176-6640, PGC 12286, V V 436</div></div></div>	<div><div><div><div>mag</div><div>8.7</div></div><div><div>ra</div><div>03h18m16s</div></div><div><div>dec</div><div>-66d29m43s</div></div><div><div>size</div><div>9.2 x 7.2</div></div><div><div>chart</div><div>11 to 20</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>55°</div></div><div><div>midnight alt</div><div>42°</div></div><div><div>transit</div><div>2019-01-03 20:37 55°</div></div><div><div>end alt</div><div>23°</div></div></div></div>
<div><div><div>Bright nebula in Dorado</div><div>NGC 1731</div><div>NGC 1731, ESO 85-SC12</div></div></div>	<div><div><div><div>mag</div><div>9.9</div></div><div><div>ra</div><div>04h53m30s</div></div><div><div>dec</div><div>-66d56m00s</div></div><div><div>size</div><div>8.0 x 8.0</div></div><div><div>chart</div><div>11 to 20</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>53°</div></div><div><div>midnight alt</div><div>50°</div></div><div><div>transit</div><div>2019-01-03 22:11 54°</div></div><div><div>end alt</div><div>32°</div></div></div></div>
<div><div><div>Bright nebula in Dorado</div><div>NGC 1763</div><div>NGC 1763, IC 2115</div></div></div>	<div><div><div><div>mag</div><div>0.0</div></div><div><div>ra</div><div>04h56m48s</div></div><div><div>dec</div><div>-66d25m00s</div></div><div><div>size</div><div>25.0 x 20.0</div></div><div><div>chart</div><div>11 to 20</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>53°</div></div><div><div>midnight alt</div><div>50°</div></div><div><div>transit</div><div>2019-01-03 22:15 55°</div></div><div><div>end alt</div><div>32°</div></div></div></div>
<div><div><div>Bright nebula in Dorado</div><div>NGC 1929</div><div>NGC 1929, ESO 56-EN107</div></div></div>	<div><div><div><div>mag</div><div>0.0</div></div><div><div>ra</div><div>05h21m36s</div></div><div><div>dec</div><div>-67d55m00s</div></div><div><div>size</div><div>20.0 x 15.0</div></div><div><div>chart</div><div>11 to 20</div></div></div><div><div><div>rise</div><div></div></div><div><div>set</div><div></div></div><div><div>start alt</div><div>50°</div></div><div><div>midnight alt</div><div>51°</div></div><div><div>transit</div><div>2019-01-03 22:39 53°</div></div><div><div>end alt</div><div>35°</div></div></div></div>

Bright nebula in Dorado	mag	rise
8.5		
ra	set	
05h26m18s		
dec	start alt	
-68d50m00s	49°	
size	midnight alt	
13.0 x 12.0	50°	
chart	transit	
11 to 20	2019-01-03 22:44	
	52°	
	end alt	
	35°	

Bright nebula in Dorado	mag	rise
9.0		
ra	set	
05h27m24s		
dec	start alt	
-67d28m00s	50°	
size	midnight alt	
20.0 x 20.0	51°	
chart	transit	
11 to 20	2019-01-03 22:45	
	54°	
	end alt	
	35°	

Bright nebula in Dorado	mag	rise
9.0		
ra	set	
05h28m00s		
dec	start alt	
-67d25m00s	50°	
size	midnight alt	
9.0 x 9.0	51°	
chart	transit	
11 to 20	2019-01-03 22:46	
	54°	
	end alt	
	36°	

Globular cluster in Dorado	mag	rise
9.9		
ra	set	
05h28m48s		
dec	start alt	
-66d14m00s	51°	
size	midnight alt	
42.0 x 19.0	52°	
chart	transit	
11 to 20	2019-01-03 22:47	
	55°	
	end alt	
	36°	

Supernova remnant in Mensa	mag	rise
10.9		
ra	set	
05h30m48s		
dec	start alt	
-71d04m00s	47°	
size	midnight alt	
25.0 x 18.0	48°	
chart	transit	
11 to 20	2019-01-03 22:48	
	50°	
	end alt	
	35°	

Bright nebula in Dorado	mag	rise
8.3		
ra	set	
05h38m36s		
dec	start alt	
-69d06m00s	48°	
size	midnight alt	
20.0 x 20.0	50°	
chart	transit	
11 to 20	2019-01-03 22:56	
	52°	
	end alt	
	36°	

Bright nebula in Dorado	mag	rise
0.0		
ra	set	
05h39m36s		
dec	start alt	
-69d39m00s	48°	
size	midnight alt	
15.0 x 15.0	50°	
chart	transit	
11 to 20	2019-01-03 22:57	
	51°	
	end alt	
	36°	

Globular cluster in Dorado	mag	rise
13.5		
ra	set	
06h30m12s		
dec	start alt	
-64d19m00s	47°	
size	midnight alt	
55.0 x 55.0	57°	
chart	transit	
21 to 30	2019-01-03 23:48	
	57°	
	end alt	
	42°	

Galaxy in Volans	mag	rise
10.4		
ra	set	
07h36m24s		
dec	start alt	
-69d31m51s	40°	
size	midnight alt	
6.0 x 5.0	51°	
chart	transit	
21 to 30	2019-01-04 00:54	
	52°	
	end alt	
	46°	

Globular cluster in Carina

NGC 2808

NGC 2808, ESO 91-SC1, GCL 13

mag	rise
6.2	
ra	set
09h12m03s	
dec	start alt
-64d51m45s	31°
size	midnight alt
14.0 x 14.0	50°
chart	transit
31 to 40	2019-01-04 02:30
	56°
	end alt
	55°