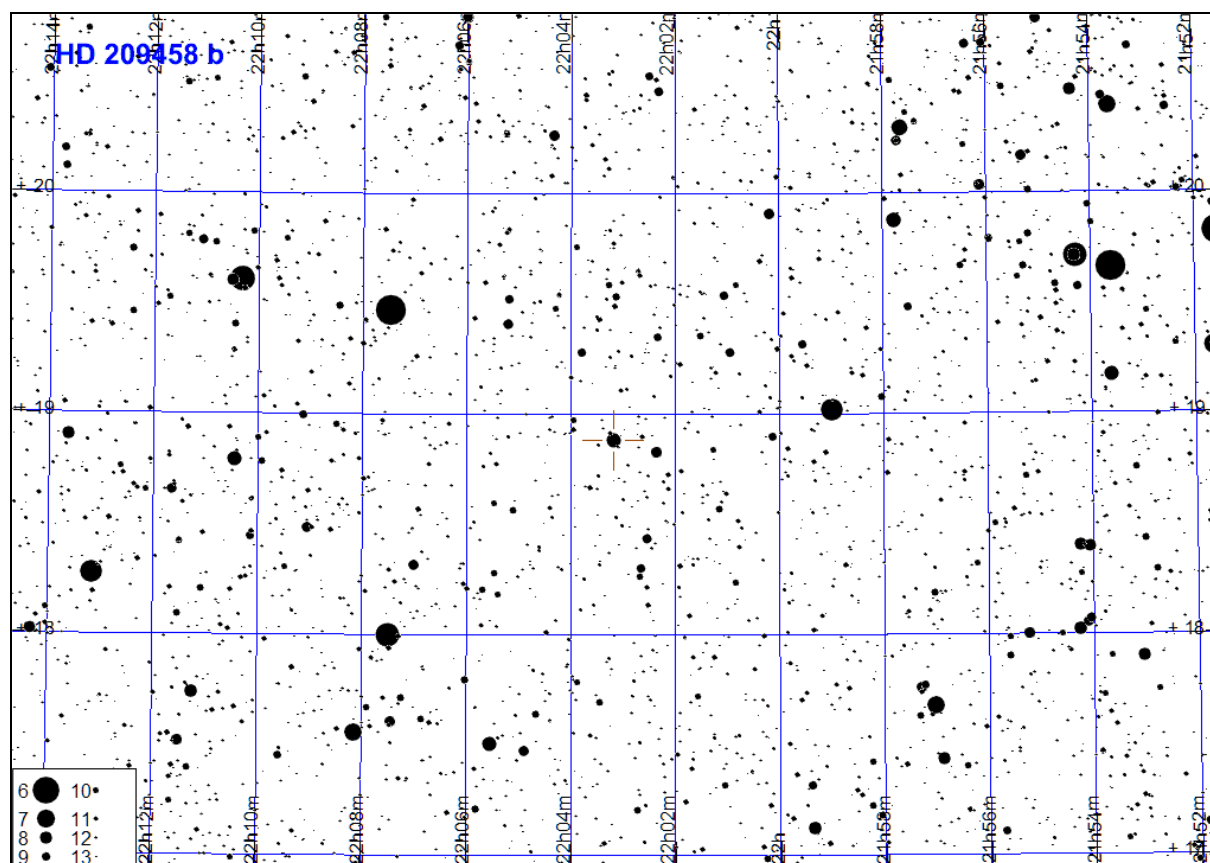


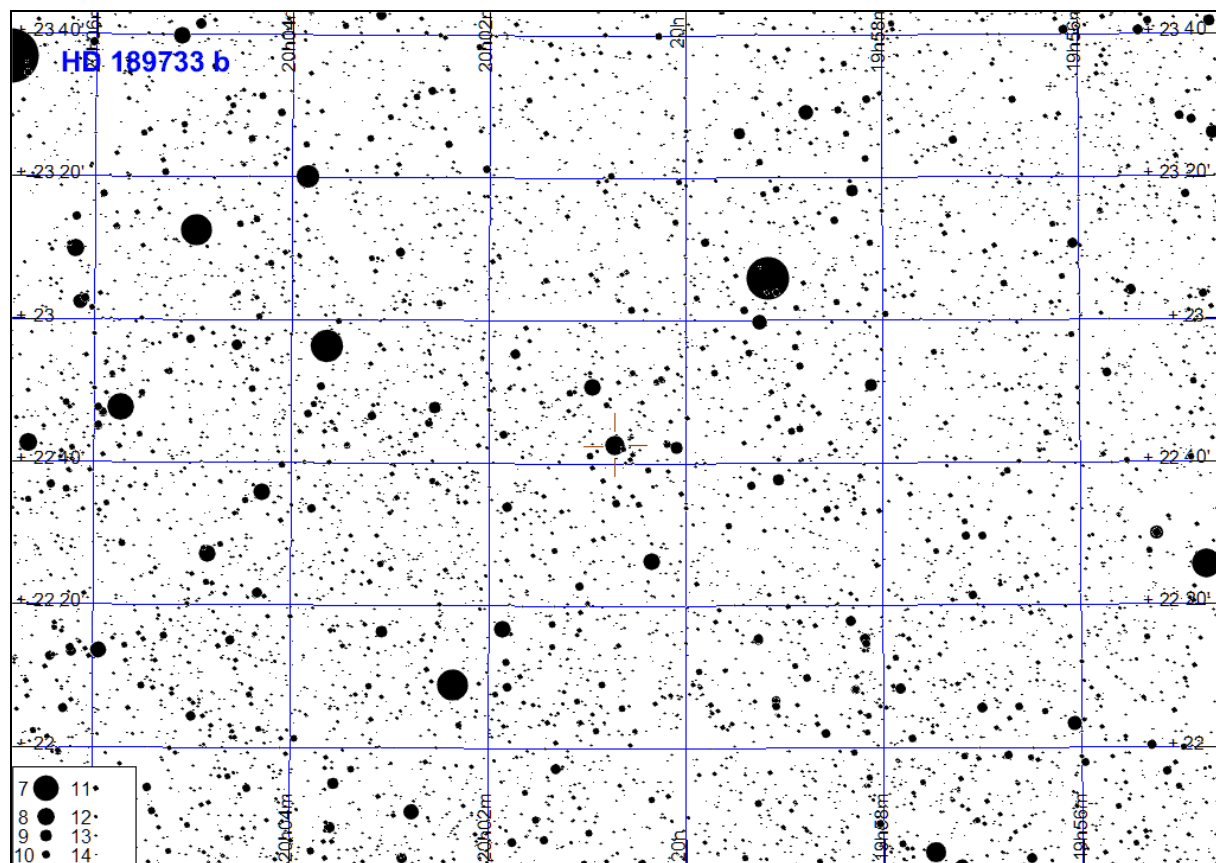
HD 209458 b

| Początek tranzytu | Środek tranzytu | Koniec tranzytu |
|----------------------|------------------------------|----------------------|
| 09.06 20:24 (7°,NE) | 09.06. 21:57 (21°,E) | 09.06 23:29 (35°,E) |
| 16.06 21:36 (22°,E) | 16.06. 23:08 (36°,E) | 17.06 0:40 (48°,SE) |
| 23.06 22:47 (37°,E) | 24.06. 0:19 (48°,SE) | 24.06 1:51 (56°,S) |
| 08.08 18:30 (25°,E) | 08.08. 20:02 (39°,E) | 08.08 21:34 (51°,SE) |
| 15.08 19:42 (40°,E) | 15.08. 21:14 (51°,SE) | 15.08 22:46 (57°,S) |
| 22.08 20:53 (52°,SE) | 22.08. 22:25 (57°,S) | 22.08 23:57 (53°,SW) |
| 29.08 22:04 (57°,S) | 29.08. 23:36 (53°,SW) | 30.08 1:08 (42°,SW) |
| 05.09 23:15 (52°,SW) | 06.09. 0:47 (41°,SW) | 06.09 2:20 (27°,W) |
| 13.09 0:27 (40°,W) | 13.09. 1:59 (26°,W) | 13.09 3:31 (12°,W) |
| 07.10 16:36 (43°,SE) | 07.10. 18:08 (54°,SE) | 07.10 19:40 (57°,S) |
| 14.10 17:47 (54°,SE) | 14.10. 19:19 (57°,S) | 14.10 20:52 (51°,SW) |
| 21.10 18:59 (57°,S) | 21.10. 20:31 (50°,SW) | 21.10 22:03 (38°,W) |
| 28.10 20:10 (49°,SW) | 28.10. 21:42 (37°,W) | 28.10 23:14 (23°,W) |
| 04.11 21:21 (36°,W) | 04.11. 22:53 (22°,W) | 05.11 0:25 (9°,W) |
| 06.12 14:42 (56°,S) | 06.12. 16:14 (56°,S) | 06.12 17:46 (48°,SW) |
| 13.12 15:53 (56°,S) | 13.12. 17:25 (48°,SW) | 13.12 18:57 (35°,W) |
| 20.12 17:04 (47°,SW) | 20.12. 18:37 (34°,W) | 20.12 20:09 (20°,W) |



HD 189733 b

| Początek tranzytu | Środek tranzytu | Koniec tranzytu |
|----------------------|------------------------------|----------------------|
| 05.01 16:27 (28°,W) | 05.01. 17:22 (20°,W) | 05.01 18:17 (12°,NW) |
| 30.03 23:48 (17°,E) | 31.03. 0:42 (24°,E) | 31.03 1:37 (33°,E) |
| 19.04 23:00 (21°,E) | 19.04. 23:55 (30°,E) | 20.04 0:50 (37°,E) |
| 09.05 22:13 (26°,E) | 09.05. 23:08 (34°,E) | 10.05 0:03 (42°,E) |
| 29.05 21:26 (31°,E) | 29.05. 22:21 (39°,E) | 29.05 23:15 (47°,SE) |
| 09.06 23:39 (55°,SE) | 10.06. 0:34 (60°,SE) | 10.06 1:29 (61°,S) |
| 18.06 20:38 (35°,E) | 18.06. 21:33 (44°,E) | 18.06 22:28 (51°,SE) |
| 29.06 22:52 (58°,SE) | 29.06. 23:47 (61°,S) | 30.06 0:42 (60°,S) |
| 08.07 19:51 (40°,E) | 08.07. 20:46 (48°,SE) | 08.07 21:41 (55°,SE) |
| 19.07 22:05 (60°,S) | 19.07. 23:00 (61°,S) | 19.07 23:54 (58°,SW) |
| 28.07 19:04 (45°,E) | 28.07. 19:59 (52°,SE) | 28.07 20:53 (58°,SE) |
| 31.07 0:19 (51°,SW) | 31.07. 1:13 (44°,W) | 31.07 2:08 (36°,W) |
| 08.08 21:18 (61°,S) | 08.08. 22:12 (60°,S) | 08.08 23:07 (55°,SW) |
| 17.08 18:17 (49°,SE) | 17.08. 19:11 (56°,SE) | 17.08 20:06 (60°,S) |
| 19.08 23:31 (47°,SW) | 20.08. 0:26 (39°,W) | 20.08 1:21 (31°,W) |
| 28.08 20:30 (61°,S) | 28.08. 21:25 (57°,SW) | 28.08 22:20 (51°,SW) |
| 06.09 17:29 (53°,SE) | 06.09. 18:24 (58°,SE) | 06.09 19:19 (61°,S) |
| 08.09 22:44 (42°,W) | 08.09. 23:39 (34°,W) | 09.09 0:34 (26°,W) |
| 17.09 19:43 (59°,SW) | 17.09. 20:38 (54°,SW) | 17.09 21:33 (47°,SW) |
| 26.09 16:42 (56°,SE) | 26.09. 17:37 (60°,S) | 26.09 18:32 (61°,S) |
| 28.09 21:57 (37°,W) | 28.09. 22:52 (29°,W) | 28.09 23:46 (21°,W) |
| 07.10 18:56 (56°,SW) | 07.10. 19:50 (50°,SW) | 07.10 20:45 (43°,W) |
| 16.10 15:55 (59°,SE) | 16.10. 16:49 (61°,S) | 16.10 17:44 (59°,SW) |
| 18.10 21:09 (33°,W) | 18.10. 22:04 (24°,W) | 18.10 22:59 (16°,W) |
| 27.10 18:08 (53°,SW) | 27.10. 19:03 (46°,SW) | 27.10 19:58 (38°,W) |
| 05.11 15:07 (61°,S) | 05.11. 16:02 (61°,S) | 05.11 16:57 (57°,SW) |
| 16.11 17:21 (49°,SW) | 16.11. 18:16 (42°,W) | 16.11 19:11 (33°,W) |
| 06.12 16:34 (45°,W) | 06.12. 17:29 (37°,W) | 06.12 18:23 (29°,W) |
| 26.12 15:47 (40°,W) | 26.12. 16:41 (32°,W) | 26.12 17:36 (24°,W) |

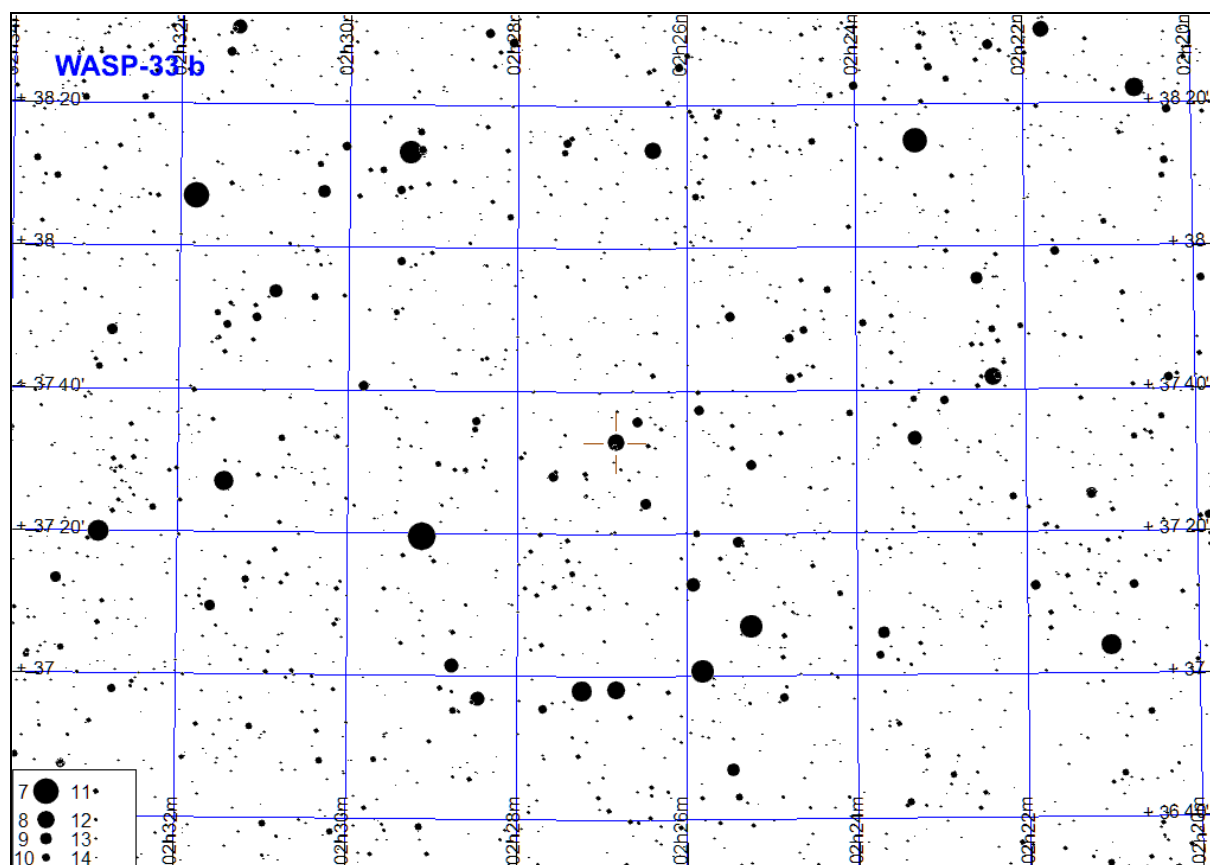


WASP-33 b

| Początek tranzytu | Środek tranzytu | Koniec tranzytu |
|----------------------|------------------------------|----------------------|
| 01.01 21:58 (49°,W) | 01.01. 23:19 (37°,W) | 02.01 0:41 (26°,NW) |
| 06.01 19:04 (71°,SW) | 06.01. 20:26 (60°,W) | 06.01 21:47 (48°,W) |
| 11.01 16:10 (70°,SE) | 11.01. 17:32 (76°,S) | 11.01 18:53 (70°,SW) |
| 12.01 21:27 (47°,W) | 12.01. 22:49 (35°,W) | 13.01 0:10 (24°,NW) |
| 17.01 18:34 (70°,SW) | 17.01. 19:55 (58°,W) | 17.01 21:17 (46°,W) |
| 22.01 15:40 (71°,SE) | 22.01. 17:01 (76°,S) | 22.01 18:23 (69°,SW) |
| 23.01 20:57 (45°,W) | 23.01. 22:18 (33°,W) | 23.01 23:40 (22°,NW) |
| 28.01 18:03 (68°,SW) | 28.01. 19:24 (57°,W) | 28.01 20:46 (44°,W) |
| 02.02 15:09 (73°,SE) | 02.02. 16:31 (75°,S) | 02.02 17:52 (67°,SW) |
| 03.02 20:26 (43°,W) | 03.02. 21:48 (31°,NW) | 03.02 23:09 (21°,NW) |
| 08.02 17:32 (67°,SW) | 08.02. 18:54 (55°,W) | 08.02 20:15 (42°,W) |
| 14.02 19:56 (41°,W) | 14.02. 21:17 (30°,NW) | 14.02 22:39 (19°,NW) |
| 19.02 17:02 (65°,SW) | 19.02. 18:23 (53°,W) | 19.02 19:45 (40°,W) |
| 25.02 19:25 (40°,W) | 25.02. 20:46 (28°,NW) | 25.02 22:08 (17°,NW) |
| 02.03 16:31 (63°,W) | 02.03. 17:53 (51°,W) | 02.03 19:14 (38°,W) |
| 08.03 18:54 (38°,W) | 08.03. 20:16 (26°,NW) | 08.03 21:37 (16°,NW) |
| 19.03 18:24 (36°,W) | 19.03. 19:45 (25°,NW) | 19.03 21:07 (15°,NW) |
| 30.03 17:53 (34°,W) | 30.03. 19:15 (23°,NW) | 30.03 20:36 (13°,NW) |
| 10.04 17:23 (32°,W) | 10.04. 18:44 (21°,NW) | 10.04 20:06 (12°,NW) |
| 14.07 20:58 (11°,NE) | 14.07. 22:20 (20°,NE) | 14.07 23:41 (31°,NE) |
| 20.07 23:21 (32°,NE) | 21.07. 0:43 (43°,E) | 21.07 2:04 (56°,E) |
| 25.07 20:28 (13°,NE) | 25.07. 21:49 (22°,NE) | 25.07 23:11 (33°,E) |
| 31.07 22:51 (34°,E) | 01.08. 0:12 (45°,E) | 01.08 1:34 (58°,E) |
| 05.08 19:57 (14°,NE) | 05.08. 21:19 (24°,NE) | 05.08 22:40 (35°,E) |
| 11.08 22:20 (35°,E) | 11.08. 23:42 (48°,E) | 12.08 1:03 (59°,E) |
| 16.08 19:27 (15°,NE) | 16.08. 20:48 (25°,NE) | 16.08 22:10 (37°,E) |
| 18.08 0:43 (60°,E) | 18.08. 2:05 (71°,SE) | 18.08 3:26 (76°,S) |
| 22.08 21:50 (37°,E) | 22.08. 23:11 (50°,E) | 23.08 0:33 (61°,E) |
| 27.08 18:56 (17°,NE) | 27.08. 20:18 (27°,NE) | 27.08 21:39 (39°,E) |
| 29.08 0:13 (62°,E) | 29.08. 1:34 (72°,SE) | 29.08 2:56 (75°,S) |
| 02.09 21:19 (39°,E) | 02.09. 22:41 (52°,E) | 03.09 0:02 (63°,E) |
| 07.09 18:26 (18°,NE) | 07.09. 19:47 (29°,NE) | 07.09 21:09 (41°,E) |
| 08.09 23:42 (64°,E) | 09.09. 1:04 (74°,SE) | 09.09 2:25 (75°,SW) |
| 13.09 20:49 (41°,E) | 13.09. 22:10 (53°,E) | 13.09 23:32 (66°,SE) |
| 18.09 17:55 (20°,NE) | 18.09. 19:17 (31°,NE) | 18.09 20:38 (42°,E) |
| 19.09 23:12 (66°,SE) | 20.09. 0:33 (75°,SE) | 20.09 1:55 (74°,SW) |
| 24.09 20:18 (43°,E) | 24.09. 21:40 (55°,E) | 24.09 23:01 (67°,SE) |
| 26.09 1:35 (73°,SW) | 26.09. 2:56 (63°,W) | 26.09 4:18 (51°,W) |
| 29.09 17:25 (21°,NE) | 29.09. 18:46 (32°,E) | 29.09 20:08 (44°,E) |
| 30.09 22:41 (68°,SE) | 01.10. 0:03 (75°,S) | 01.10 1:24 (72°,SW) |
| 05.10 19:48 (45°,E) | 05.10. 21:09 (57°,E) | 05.10 22:31 (69°,SE) |
| 07.10 1:04 (72°,SW) | 07.10. 2:26 (61°,W) | 07.10 3:47 (49°,W) |
| 10.10 16:54 (23°,NE) | 10.10. 18:16 (34°,E) | 10.10 19:37 (46°,E) |
| 11.10 22:11 (70°,SE) | 11.10. 23:32 (76°,S) | 12.10 0:54 (71°,SW) |
| 16.10 19:17 (47°,E) | 16.10. 20:39 (59°,E) | 16.10 22:00 (71°,SE) |
| 18.10 0:34 (71°,SW) | 18.10. 1:55 (59°,W) | 18.10 3:17 (47°,W) |
| 21.10 16:24 (25°,NE) | 21.10. 17:45 (36°,E) | 21.10 19:07 (48°,E) |
| 22.10 21:40 (71°,SE) | 22.10. 23:02 (76°,S) | 23.10 0:23 (70°,SW) |
| 27.10 18:47 (49°,E) | 27.10. 20:08 (61°,E) | 27.10 21:30 (72°,SE) |
| 29.10 0:03 (69°,SW) | 29.10. 1:25 (57°,W) | 29.10 2:46 (45°,W) |
| 01.11 15:53 (26°,NE) | 01.11. 17:15 (38°,E) | 01.11 18:36 (50°,E) |
| 02.11 21:10 (72°,SE) | 02.11. 22:31 (75°,S) | 02.11 23:53 (67°,SW) |
| 04.11 2:26 (44°,W) | 04.11. 3:48 (32°,W) | 04.11 5:09 (21°,NW) |
| 07.11 18:16 (51°,E) | 07.11. 19:38 (63°,E) | 07.11 20:59 (73°,SE) |
| 08.11 23:33 (67°,SW) | 09.11. 0:54 (56°,W) | 09.11 2:16 (43°,W) |
| 12.11 15:23 (28°,NE) | 12.11. 16:44 (40°,E) | 12.11 18:06 (52°,E) |

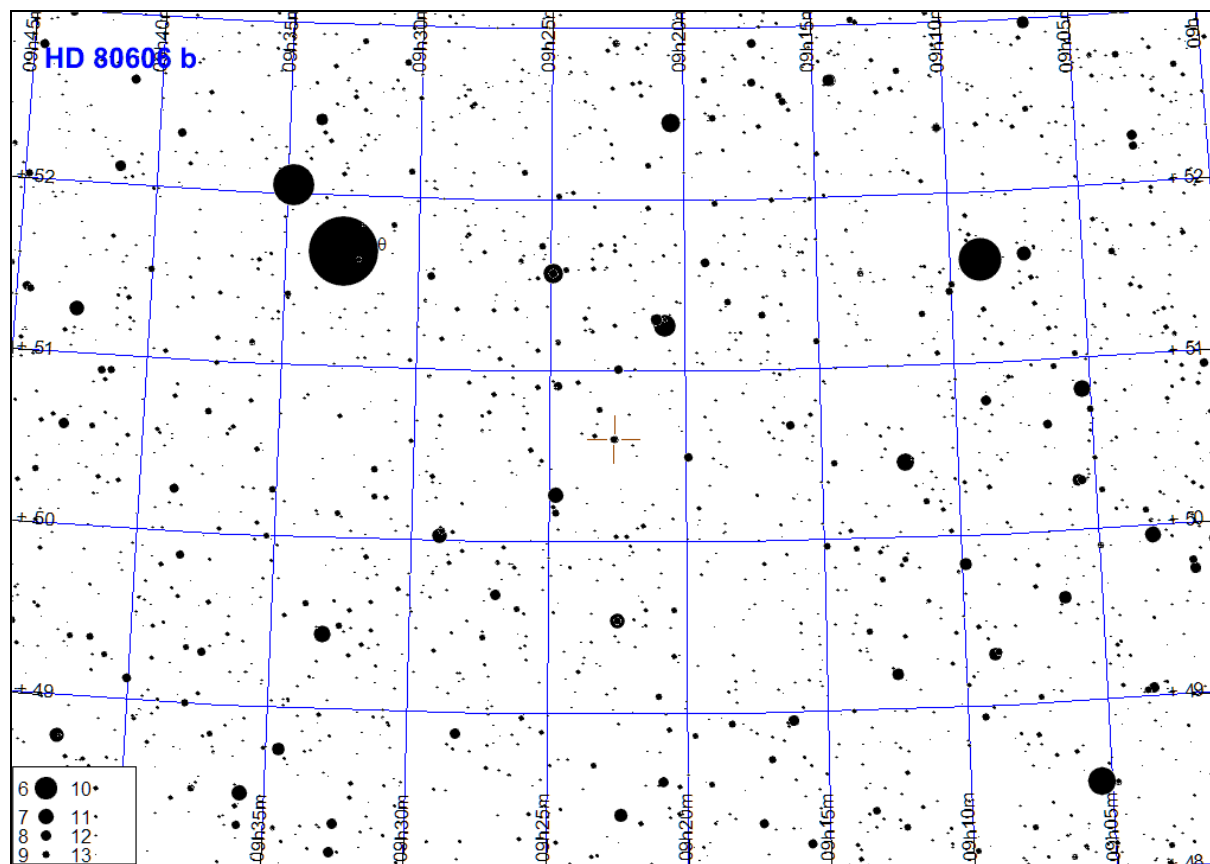
WASP-33 b (c.d.)

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 13.11 20:39 (74°,SE) | 13.11. 22:01 (75°,SW) | 13.11 23:22 (66°,SW) |
| 15.11 1:56 (42°,W) | 15.11. 3:17 (31°,NW) | 15.11 4:39 (20°,NW) |
| 18.11 17:46 (53°,E) | 18.11. 19:07 (65°,SE) | 18.11 20:29 (74°,SE) |
| 19.11 23:02 (65°,SW) | 20.11. 0:24 (54°,W) | 20.11 1:45 (41°,W) |
| 23.11 14:52 (30°,NE) | 23.11. 16:14 (42°,E) | 23.11 17:35 (54°,E) |
| 24.11 20:09 (75°,SE) | 24.11. 21:30 (74°,SW) | 24.11 22:52 (64°,W) |
| 26.11 1:25 (41°,W) | 26.11. 2:47 (29°,NW) | 26.11 4:08 (18°,NW) |
| 29.11 17:15 (55°,E) | 29.11. 18:37 (67°,SE) | 29.11 19:58 (75°,S) |
| 30.11 22:32 (63°,W) | 30.11. 23:53 (51°,W) | 01.12 1:15 (39°,W) |
| 04.12 14:22 (32°,NE) | 04.12. 15:43 (44°,E) | 04.12 17:05 (56°,E) |
| 05.12 19:38 (75°,S) | 05.12. 21:00 (73°,SW) | 05.12 22:21 (62°,W) |
| 07.12 0:55 (39°,W) | 07.12. 2:16 (27°,NW) | 07.12 3:38 (17°,NW) |
| 10.12 16:45 (57°,E) | 10.12. 18:06 (68°,SE) | 10.12 19:28 (76°,S) |
| 11.12 22:01 (61°,W) | 11.12. 23:23 (49°,W) | 12.12 0:44 (37°,W) |
| 16.12 19:08 (76°,S) | 16.12. 20:29 (71°,SW) | 16.12 21:51 (60°,W) |
| 18.12 0:24 (37°,W) | 18.12. 1:46 (25°,NW) | 18.12 3:07 (15°,NW) |
| 21.12 16:14 (59°,E) | 21.12. 17:36 (70°,SE) | 21.12 18:57 (76°,S) |
| 22.12 21:31 (59°,W) | 22.12. 22:52 (47°,W) | 23.12 0:14 (35°,W) |
| 27.12 18:37 (76°,S) | 27.12. 19:59 (70°,SW) | 27.12 21:20 (58°,W) |
| 28.12 23:54 (34°,W) | 29.12. 1:15 (24°,NW) | 29.12 2:37 (14°,NW) |



HD 80606 b

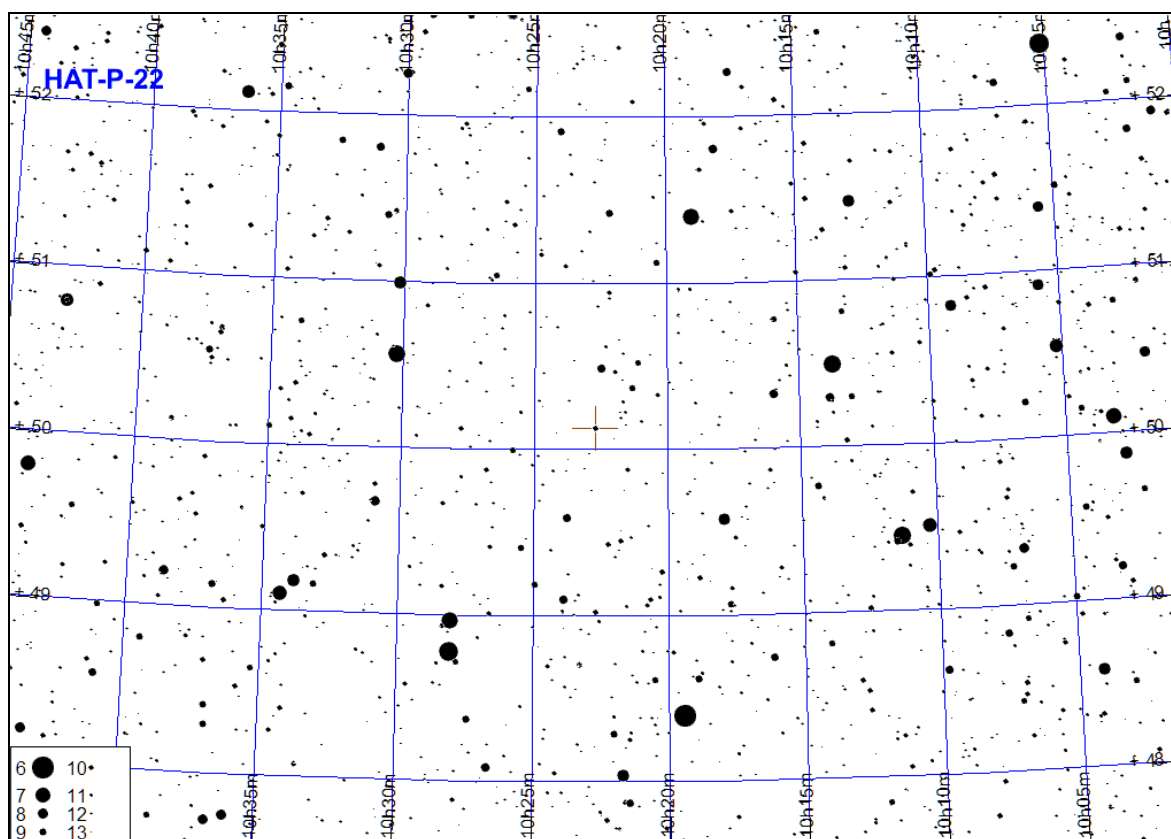
| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|---------------------|----------------------|---------------------|
| 10.04 15:51 (65°,E) | 10.04. 21:48 (61°,W) | 11.04 3:44 (20°,NW) |



**UWAGA: Jest to gwiazda wizualnie podwójna!
Tranzyt obserwuje się dla składnika o mniejszej rektascensji**

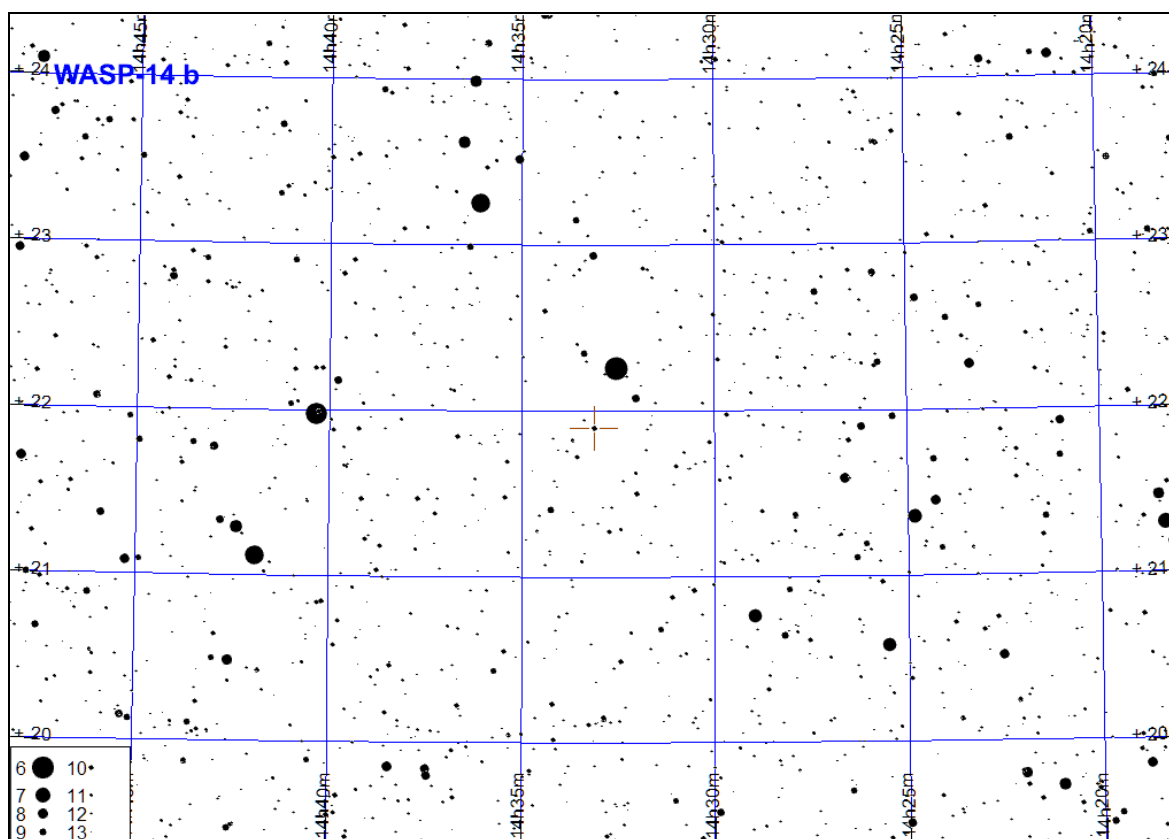
HAT-P-22 b

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 07.01 19:39 (37°,NE) | 07.01. 21:05 (48°,NE) | 07.01 22:31 (61°,E) |
| 11.01 0:45 (82°,E) | 11.01. 2:11 (85°,W) | 11.01 3:37 (72°,W) |
| 20.01 16:01 (20°,NE) | 20.01. 17:28 (28°,NE) | 20.01 18:54 (38°,NE) |
| 23.01 21:07 (57°,E) | 23.01. 22:33 (70°,E) | 23.01 23:59 (83°,E) |
| 27.01 2:13 (75°,W) | 27.01. 3:39 (62°,W) | 27.01 5:05 (49°,NW) |
| 05.02 17:29 (35°,NE) | 05.02. 18:56 (46°,NE) | 05.02 20:22 (58°,E) |
| 08.02 22:35 (80°,E) | 09.02. 0:01 (87°,SW) | 09.02 1:27 (74°,W) |
| 21.02 18:57 (55°,E) | 21.02. 20:23 (68°,E) | 21.02 21:50 (81°,E) |
| 25.02 0:03 (77°,W) | 25.02. 1:29 (64°,W) | 25.02 2:55 (52°,NW) |
| 09.03 20:25 (78°,E) | 09.03. 21:51 (88°,SW) | 09.03 23:18 (76°,W) |
| 13.03 1:31 (55°,W) | 13.03. 2:57 (43°,NW) | 13.03 4:23 (32°,NW) |
| 22.03 16:48 (53°,E) | 22.03. 18:14 (66°,E) | 22.03 19:40 (79°,E) |
| 25.03 21:53 (79°,W) | 25.03. 23:19 (66°,W) | 26.03 0:46 (54°,W) |
| 07.04 18:16 (76°,E) | 07.04. 19:42 (88°,SE) | 07.04 21:08 (78°,W) |
| 10.04 23:21 (56°,W) | 11.04. 0:47 (45°,NW) | 11.04 2:14 (34°,NW) |
| 23.04 19:44 (81°,W) | 23.04. 21:10 (68°,W) | 23.04 22:36 (55°,W) |
| 09.05 21:12 (59°,W) | 09.05. 22:38 (46°,NW) | 10.05 0:04 (36°,NW) |
| 25.05 22:40 (38°,NW) | 26.05. 0:06 (29°,NW) | 26.05 1:32 (21°,NW) |
| 07.06 19:02 (61°,W) | 07.06. 20:28 (49°,NW) | 07.06 21:54 (37°,NW) |
| 23.06 20:30 (40°,NW) | 23.06. 21:56 (30°,NW) | 23.06 23:22 (22°,NW) |
| 25.09 0:12 (22°,NE) | 25.09. 1:38 (30°,NE) | 25.09 3:05 (41°,NE) |
| 11.10 1:40 (38°,NE) | 11.10. 3:06 (49°,NE) | 11.10 4:33 (62°,E) |
| 23.10 22:03 (21°,NE) | 23.10. 23:29 (29°,NE) | 24.10 0:55 (39°,NE) |
| 08.11 23:31 (36°,NE) | 09.11. 0:57 (47°,NE) | 09.11 2:23 (59°,E) |
| 21.11 19:53 (20°,NE) | 21.11. 21:19 (27°,NE) | 21.11 22:45 (37°,NE) |
| 25.11 0:59 (56°,E) | 25.11. 2:25 (69°,E) | 25.11 3:51 (82°,E) |
| 07.12 21:21 (35°,NE) | 07.12. 22:47 (45°,NE) | 08.12 0:13 (57°,E) |
| 11.12 2:27 (79°,E) | 11.12. 3:53 (88°,SW) | 11.12 5:19 (75°,W) |
| 20.12 17:43 (19°,NE) | 20.12. 19:10 (26°,NE) | 20.12 20:36 (35°,NE) |
| 23.12 22:49 (54°,E) | 24.12. 0:15 (67°,E) | 24.12 1:41 (80°,E) |
| 27.12 3:55 (78°,W) | 27.12. 5:21 (65°,W) | 27.12 6:47 (52°,NW) |



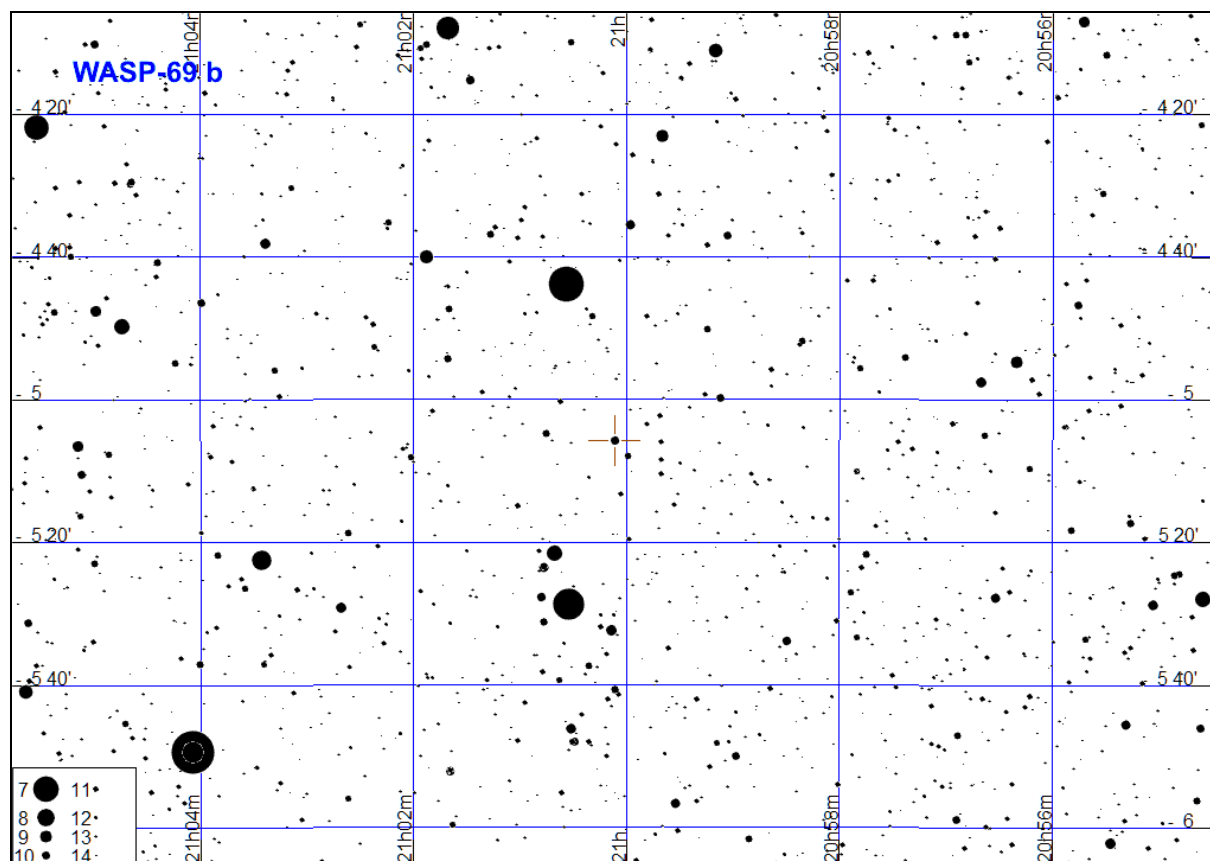
WASP-14 b

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 07.01 19:39 (37°,NE) | 07.01. 21:05 (48°,NE) | 07.01 22:31 (61°,E) |
| 11.01 0:45 (82°,E) | 11.01. 2:11 (85°,W) | 11.01 3:37 (72°,W) |
| 20.01 16:01 (20°,NE) | 20.01. 17:28 (28°,NE) | 20.01 18:54 (38°,NE) |
| 23.01 21:07 (57°,E) | 23.01. 22:33 (70°,E) | 23.01 23:59 (83°,E) |
| 27.01 2:13 (75°,W) | 27.01. 3:39 (62°,W) | 27.01 5:05 (49°,NW) |
| 05.02 17:29 (35°,NE) | 05.02. 18:56 (46°,NE) | 05.02 20:22 (58°,E) |
| 08.02 22:35 (80°,E) | 09.02. 0:01 (87°,SW) | 09.02 1:27 (74°,W) |
| 21.02 18:57 (55°,E) | 21.02. 20:23 (68°,E) | 21.02 21:50 (81°,E) |
| 25.02 0:03 (77°,W) | 25.02. 1:29 (64°,W) | 25.02 2:55 (52°,NW) |
| 09.03 20:25 (78°,E) | 09.03. 21:51 (88°,SW) | 09.03 23:18 (76°,W) |
| 13.03 1:31 (55°,W) | 13.03. 2:57 (43°,NW) | 13.03 4:23 (32°,NW) |
| 22.03 16:48 (53°,E) | 22.03. 18:14 (66°,E) | 22.03 19:40 (79°,E) |
| 25.03 21:53 (79°,W) | 25.03. 23:19 (66°,W) | 26.03 0:46 (54°,W) |
| 07.04 18:16 (76°,E) | 07.04. 19:42 (88°,SE) | 07.04 21:08 (78°,W) |
| 10.04 23:21 (56°,W) | 11.04. 0:47 (45°,NW) | 11.04 2:14 (34°,NW) |
| 23.04 19:44 (81°,W) | 23.04. 21:10 (68°,W) | 23.04 22:36 (55°,W) |
| 09.05 21:12 (59°,W) | 09.05. 22:38 (46°,NW) | 10.05 0:04 (36°,NW) |
| 25.05 22:40 (38°,NW) | 26.05. 0:06 (29°,NW) | 26.05 1:32 (21°,NW) |
| 07.06 19:02 (61°,W) | 07.06. 20:28 (49°,NW) | 07.06 21:54 (37°,NW) |
| 23.06 20:30 (40°,NW) | 23.06. 21:56 (30°,NW) | 23.06 23:22 (22°,NW) |
| 25.09 0:12 (22°,NE) | 25.09. 1:38 (30°,NE) | 25.09 3:05 (41°,NE) |
| 11.10 1:40 (38°,NE) | 11.10. 3:06 (49°,NE) | 11.10 4:33 (62°,E) |
| 23.10 22:03 (21°,NE) | 23.10. 23:29 (29°,NE) | 24.10 0:55 (39°,NE) |
| 08.11 23:31 (36°,NE) | 09.11. 0:57 (47°,NE) | 09.11 2:23 (59°,E) |
| 21.11 19:53 (20°,NE) | 21.11. 21:19 (27°,NE) | 21.11 22:45 (37°,NE) |
| 25.11 0:59 (56°,E) | 25.11. 2:25 (69°,E) | 25.11 3:51 (82°,E) |
| 07.12 21:21 (35°,NE) | 07.12. 22:47 (45°,NE) | 08.12 0:13 (57°,E) |
| 11.12 2:27 (79°,E) | 11.12. 3:53 (88°,SW) | 11.12 5:19 (75°,W) |
| 20.12 17:43 (19°,NE) | 20.12. 19:10 (26°,NE) | 20.12 20:36 (35°,NE) |
| 23.12 22:49 (54°,E) | 24.12. 0:15 (67°,E) | 24.12 1:41 (80°,E) |
| 27.12 3:55 (78°,W) | 27.12. 5:21 (65°,W) | 27.12 6:47 (52°,NW) |



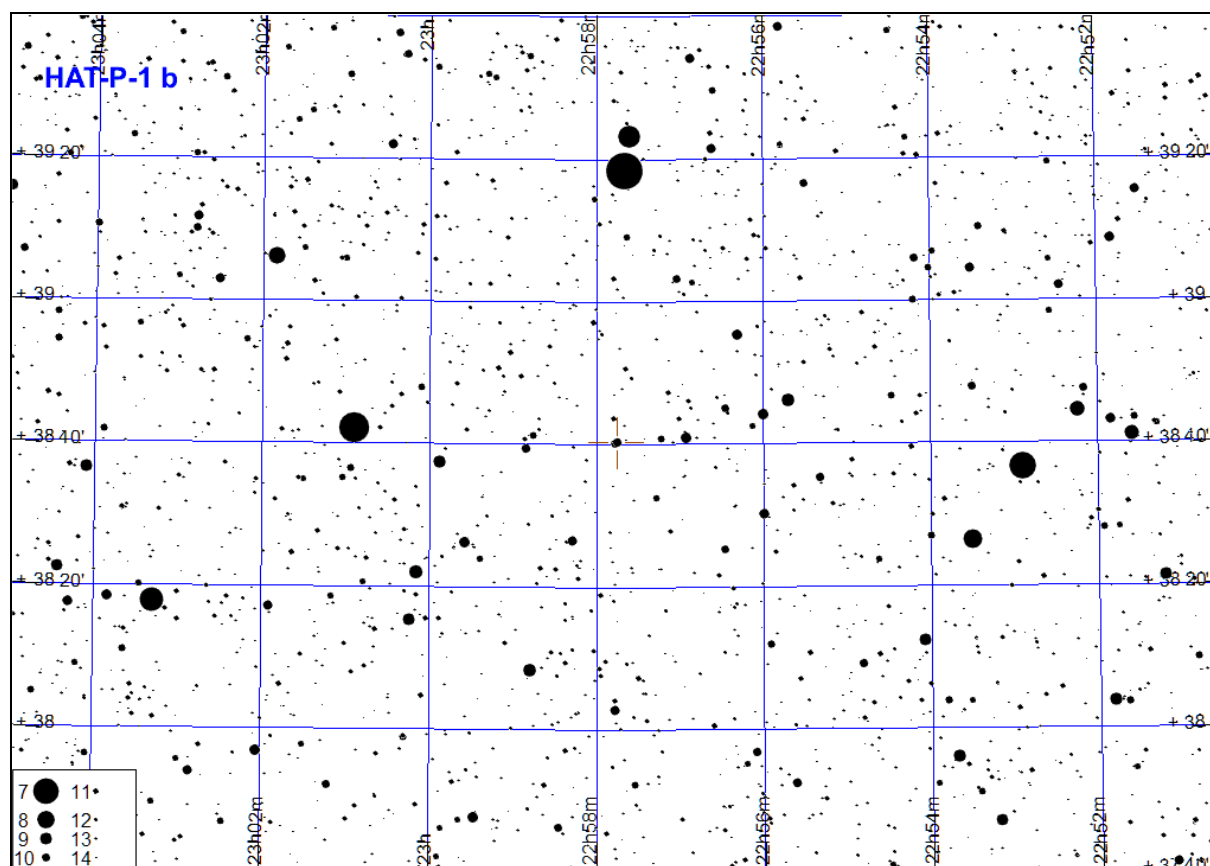
WASP-69 b

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 12.06 22:01 (13°,SE) | 12.06. 23:08 (22°,SE) | 13.06 0:14 (28°,SE) |
| 13.07 20:42 (19°,SE) | 13.07. 21:49 (26°,SE) | 13.07 22:55 (31°,S) |
| 09.08 22:32 (33°,S) | 09.08. 23:39 (31°,SW) | 10.08 0:46 (26°,SW) |
| 13.08 19:23 (24°,SE) | 13.08. 20:30 (30°,SE) | 13.08 21:36 (33°,S) |
| 09.09 21:13 (32°,S) | 09.09. 22:20 (28°,SW) | 09.09 23:27 (21°,SW) |
| 13.09 18:04 (28°,SE) | 13.09. 19:10 (32°,S) | 13.09 20:17 (33°,S) |
| 10.10 19:54 (30°,SW) | 10.10. 21:01 (23°,SW) | 10.10 22:08 (15°,SW) |
| 14.10 16:45 (31°,S) | 14.10. 17:51 (33°,S) | 14.10 18:58 (32°,S) |
| 14.11 15:25 (33°,S) | 14.11. 16:32 (33°,S) | 14.11 17:39 (29°,SW) |



HAT-P-1 b

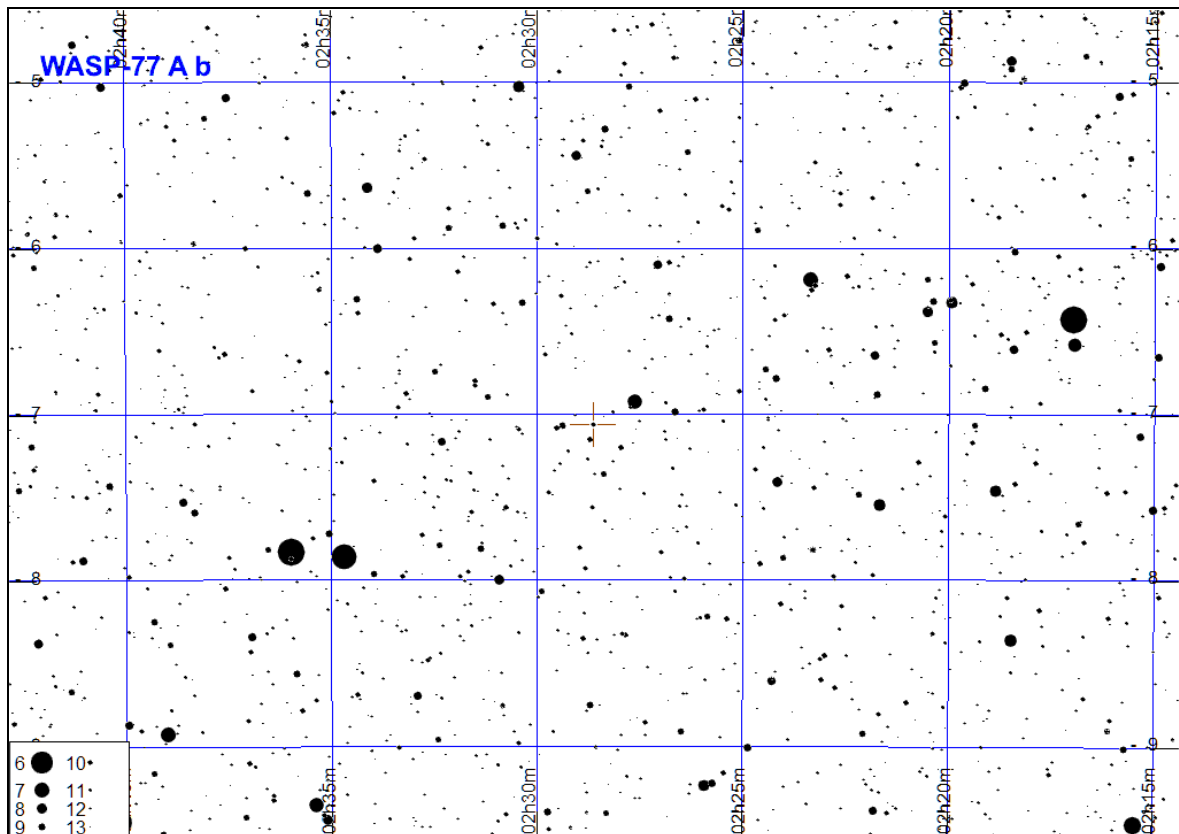
| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 09.01 15:08 (74°,SW) | 09.01. 16:28 (64°,W) | 09.01 17:47 (52°,W) |
| 08.03 16:18 (31°,NW) | 08.03. 17:38 (21°,NW) | 08.03 18:58 (12°,NW) |
| 22.03 1:48 (17°,NE) | 22.03. 3:08 (26°,NE) | 22.03 4:28 (38°,E) |
| 14.06 21:58 (30°,NE) | 14.06. 23:18 (42°,E) | 15.06 0:38 (53°,E) |
| 23.06 20:18 (22°,NE) | 23.06. 21:38 (32°,NE) | 23.06 22:58 (44°,E) |
| 11.08 23:08 (73°,SE) | 12.08. 0:28 (77°,S) | 12.08 1:48 (69°,SW) |
| 20.08 21:28 (65°,E) | 20.08. 22:48 (75°,SE) | 21.08 0:08 (76°,SW) |
| 29.08 19:49 (55°,E) | 29.08. 21:08 (67°,SE) | 29.08 22:28 (76°,SE) |
| 07.09 18:09 (46°,E) | 07.09. 19:28 (58°,E) | 07.09 20:48 (69°,SE) |
| 16.09 16:29 (36°,E) | 16.09. 17:48 (48°,E) | 16.09 19:08 (60°,E) |
| 30.09 1:59 (39°,W) | 30.09. 3:19 (27°,NW) | 30.09 4:38 (17°,NW) |
| 09.10 0:19 (48°,W) | 09.10. 1:39 (36°,W) | 09.10 2:58 (25°,NW) |
| 17.10 22:39 (58°,W) | 17.10. 23:59 (45°,W) | 18.10 1:19 (34°,W) |
| 26.10 20:59 (67°,SW) | 26.10. 22:19 (55°,W) | 26.10 23:39 (43°,W) |
| 04.11 19:19 (75°,SW) | 04.11. 20:39 (65°,W) | 04.11 21:59 (53°,W) |
| 13.11 17:39 (77°,S) | 13.11. 18:59 (73°,SW) | 13.11 20:19 (63°,W) |
| 22.11 15:59 (71°,SE) | 22.11. 17:19 (77°,S) | 22.11 18:39 (72°,SW) |
| 01.12 14:19 (61°,E) | 01.12. 15:39 (72°,SE) | 01.12 16:59 (77°,S) |



**UWAGA: Jest to gwiazda wizualnie podwójna!
Tranzyt obserwuje się dla składnika o większej rektascensji**

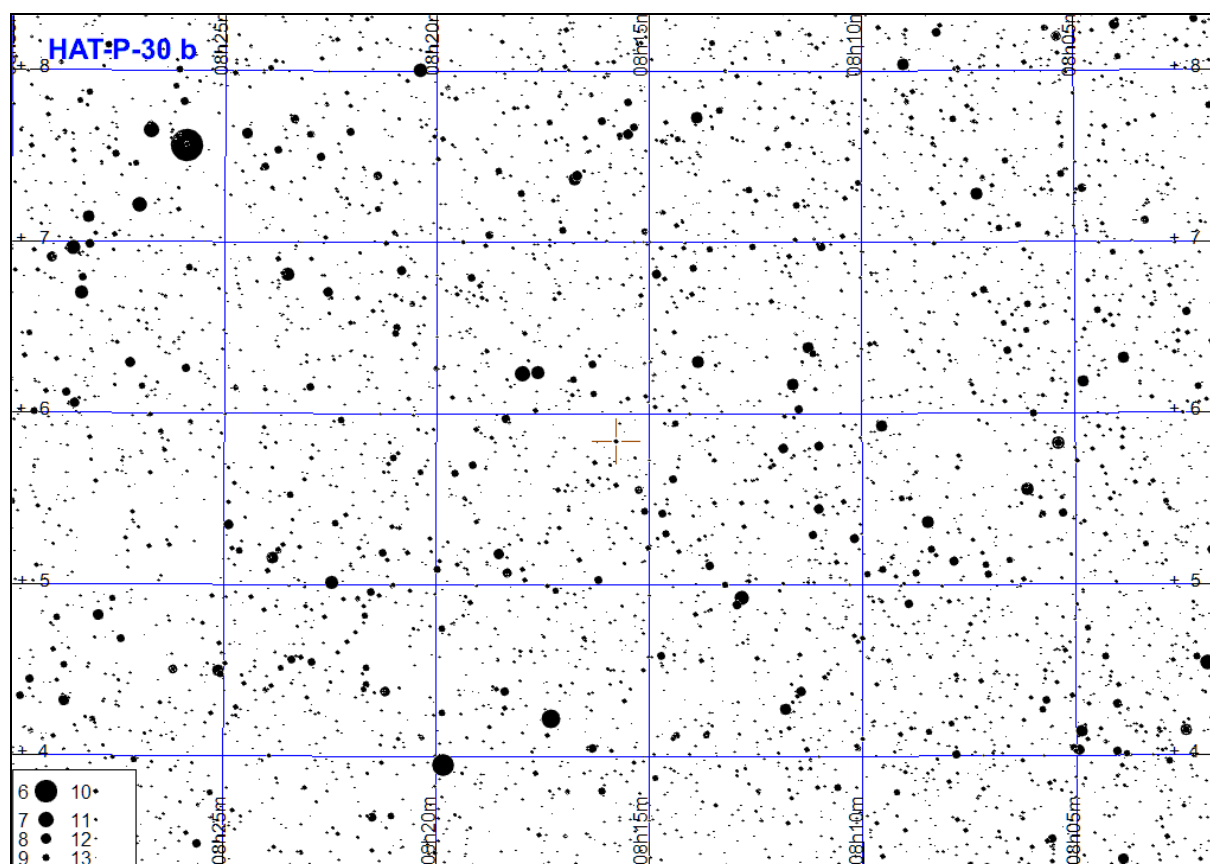
WASP-77 A b

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 02.01 18:08 (31°,S) | 02.01. 19:13 (30°,S) | 02.01 20:18 (25°,SW) |
| 13.01 15:16 (25°,SE) | 13.01. 16:20 (30°,S) | 13.01 17:25 (31°,S) |
| 17.01 17:11 (31°,S) | 17.01. 18:16 (30°,S) | 17.01 19:20 (25°,SW) |
| 01.02 16:14 (31°,S) | 01.02. 17:19 (30°,S) | 01.02 18:23 (25°,SW) |
| 07.08 0:01 (12°,SE) | 07.08. 1:05 (20°,SE) | 07.08 2:10 (27°,SE) |
| 21.08 23:04 (13°,SE) | 22.08. 0:08 (21°,SE) | 22.08 1:13 (27°,SE) |
| 26.08 0:59 (27°,SE) | 26.08. 2:04 (31°,S) | 26.08 3:09 (31°,S) |
| 05.09 22:06 (13°,SE) | 05.09. 23:11 (21°,SE) | 06.09 0:16 (27°,SE) |
| 10.09 0:02 (27°,SE) | 10.09. 1:07 (31°,S) | 10.09 2:11 (31°,S) |
| 14.09 1:57 (31°,S) | 14.09. 3:02 (28°,SW) | 14.09 4:07 (23°,SW) |
| 20.09 21:09 (14°,SE) | 20.09. 22:14 (21°,SE) | 20.09 23:19 (27°,SE) |
| 24.09 23:05 (28°,SE) | 25.09. 0:09 (31°,S) | 25.09 1:14 (31°,S) |
| 29.09 1:00 (31°,S) | 29.09. 2:05 (28°,SW) | 29.09 3:10 (23°,SW) |
| 05.10 20:12 (14°,SE) | 05.10. 21:17 (22°,SE) | 05.10 22:22 (28°,SE) |
| 09.10 22:08 (28°,SE) | 09.10. 23:12 (31°,S) | 10.10 0:17 (31°,S) |
| 14.10 0:03 (31°,S) | 14.10. 1:08 (28°,SW) | 14.10 2:13 (22°,SW) |
| 20.10 19:15 (14°,SE) | 20.10. 20:20 (22°,SE) | 20.10 21:25 (28°,SE) |
| 24.10 21:10 (28°,SE) | 24.10. 22:15 (31°,S) | 24.10 23:20 (31°,S) |
| 28.10 23:06 (31°,S) | 29.10. 0:11 (28°,SW) | 29.10 1:15 (22°,SW) |
| 04.11 18:18 (14°,SE) | 04.11. 19:23 (22°,SE) | 04.11 20:28 (28°,SE) |
| 08.11 20:13 (28°,SE) | 08.11. 21:18 (31°,S) | 08.11 22:23 (31°,S) |
| 12.11 22:09 (31°,S) | 12.11. 23:13 (28°,SW) | 13.11 0:18 (22°,SW) |
| 19.11 17:21 (15°,SE) | 19.11. 18:26 (22°,SE) | 19.11 19:31 (28°,SE) |
| 23.11 19:16 (28°,SE) | 23.11. 20:21 (31°,S) | 23.11 21:26 (31°,S) |
| 27.11 21:12 (31°,S) | 27.11. 22:16 (27°,SW) | 27.11 23:21 (21°,SW) |
| 04.12 16:24 (15°,SE) | 04.12. 17:29 (22°,SE) | 04.12 18:33 (28°,SE) |
| 08.12 18:19 (28°,SE) | 08.12. 19:24 (31°,S) | 08.12 20:29 (31°,S) |
| 12.12 20:14 (31°,S) | 12.12. 21:19 (27°,SW) | 12.12 22:24 (21°,SW) |
| 19.12 15:27 (15°,SE) | 19.12. 16:31 (23°,SE) | 19.12 17:36 (28°,SE) |
| 23.12 17:22 (28°,SE) | 23.12. 18:27 (31°,S) | 23.12 19:32 (31°,S) |
| 27.12 19:17 (31°,S) | 27.12. 20:22 (27°,SW) | 27.12 21:27 (21°,SW) |



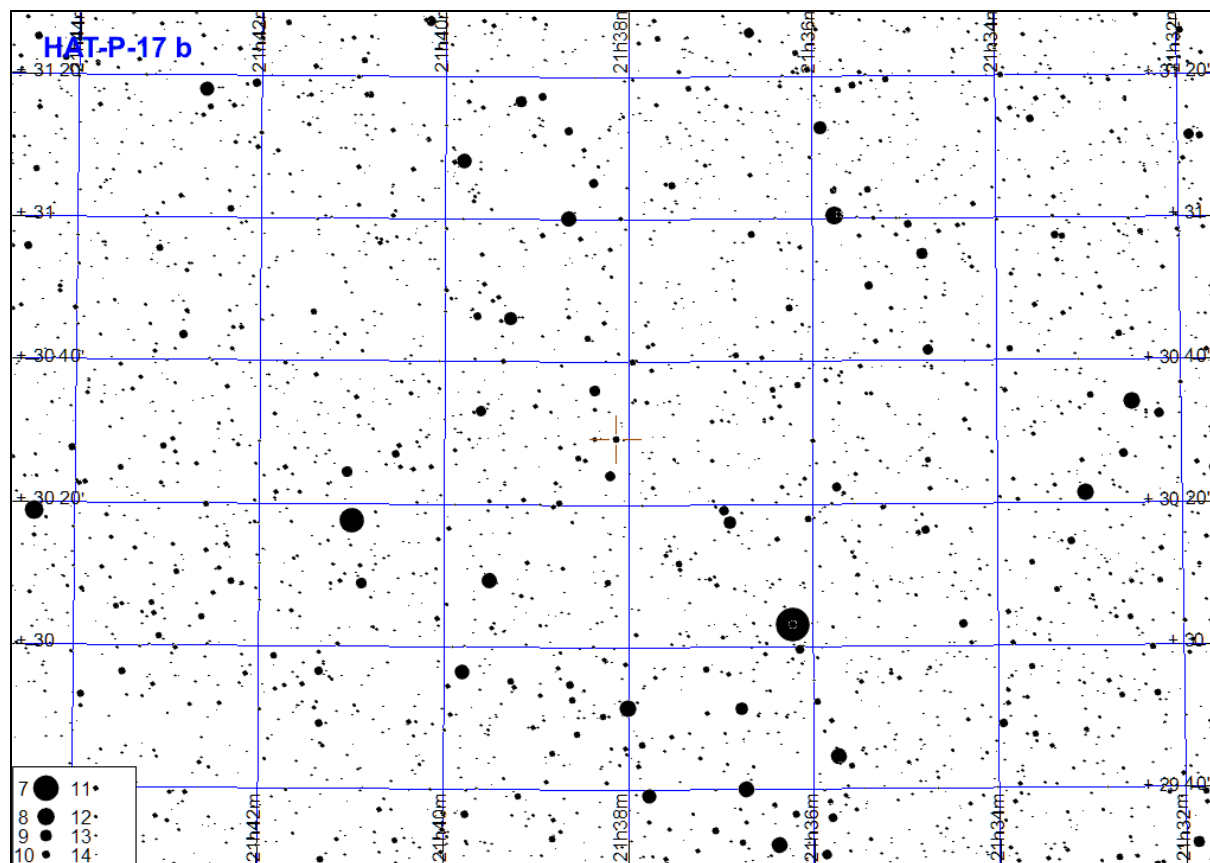
HAT-P-30 b

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 07.01 23:40 (44°,S) | 08.01. 0:44 (42°,S) | 08.01 1:48 (37°,SW) |
| 10.01 19:07 (20°,E) | 10.01. 20:11 (29°,SE) | 10.01 21:15 (37°,SE) |
| 22.01 0:56 (37°,SW) | 22.01. 2:00 (30°,SW) | 22.01 3:04 (21°,W) |
| 24.01 20:24 (37°,SE) | 24.01. 21:27 (42°,S) | 24.01 22:31 (44°,S) |
| 07.02 21:40 (44°,S) | 07.02. 22:44 (42°,SW) | 07.02 23:48 (37°,SW) |
| 10.02 17:07 (21°,E) | 10.02. 18:11 (30°,SE) | 10.02 19:15 (37°,SE) |
| 21.02 22:56 (36°,SW) | 22.02. 0:00 (29°,SW) | 22.02 1:04 (20°,W) |
| 24.02 18:23 (37°,SE) | 24.02. 19:27 (42°,S) | 24.02 20:31 (44°,S) |
| 10.03 19:40 (44°,S) | 10.03. 20:44 (42°,SW) | 10.03 21:47 (37°,SW) |
| 24.03 20:56 (36°,SW) | 24.03. 22:00 (28°,SW) | 24.03 23:04 (19°,W) |
| 10.04 17:40 (44°,S) | 10.04. 18:43 (42°,SW) | 10.04 19:47 (36°,SW) |
| 24.04 18:56 (36°,SW) | 24.04. 20:00 (28°,SW) | 24.04 21:04 (19°,W) |
| 16.10 1:06 (22°,E) | 16.10. 2:10 (31°,SE) | 16.10 3:13 (38°,SE) |
| 30.10 2:22 (38°,SE) | 30.10. 3:26 (43°,S) | 30.10 4:30 (44°,S) |
| 13.11 3:38 (44°,S) | 13.11. 4:42 (41°,SW) | 13.11 5:46 (36°,SW) |
| 15.11 23:06 (23°,E) | 16.11. 0:09 (31°,SE) | 16.11 1:13 (38°,SE) |
| 30.11 0:22 (38°,SE) | 30.11. 1:26 (43°,S) | 30.11 2:30 (44°,S) |
| 14.12 1:38 (44°,S) | 14.12. 2:42 (41°,SW) | 14.12 3:46 (35°,SW) |
| 16.12 21:05 (23°,E) | 16.12. 22:09 (32°,SE) | 16.12 23:13 (39°,SE) |
| 28.12 2:54 (35°,SW) | 28.12. 3:58 (27°,SW) | 28.12 5:02 (18°,W) |
| 30.12 22:22 (39°,SE) | 30.12. 23:26 (43°,S) | 31.12 0:29 (44°,S) |



HAT-P-17 b

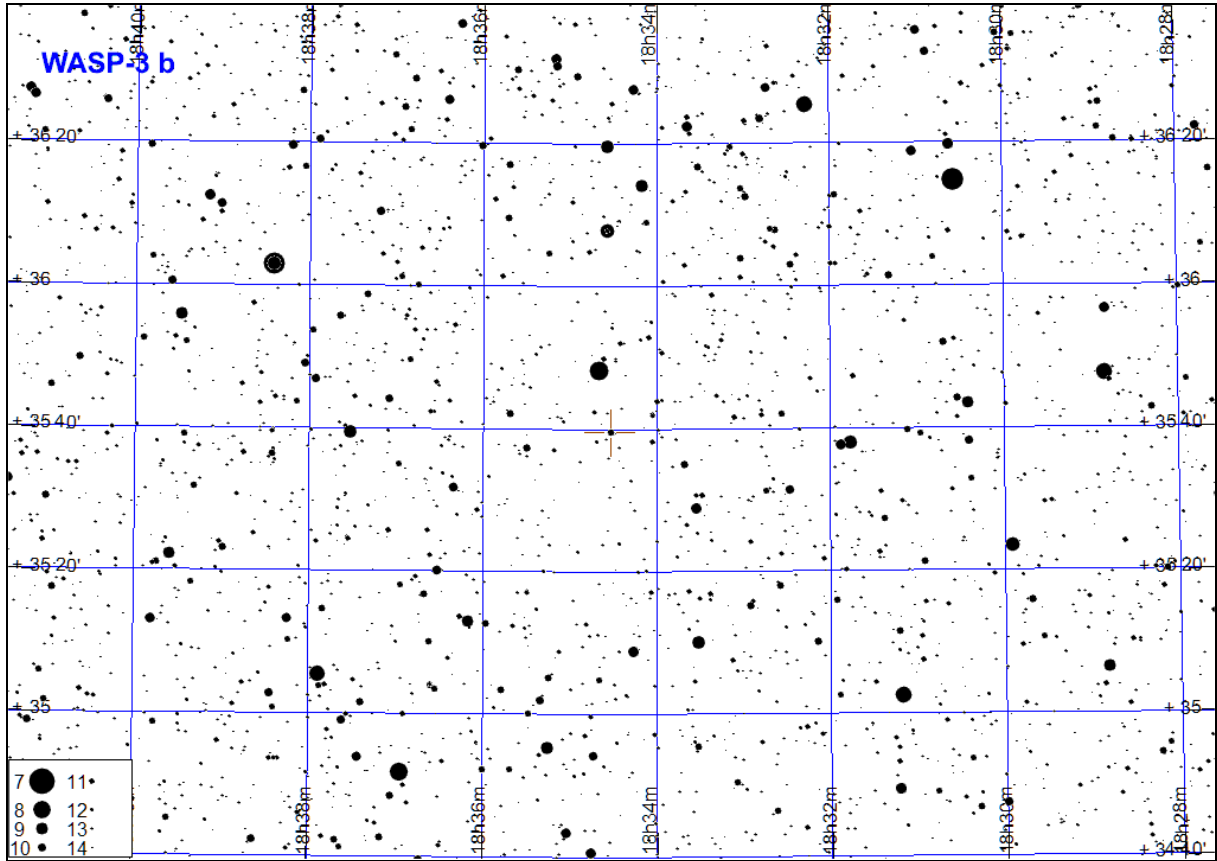
| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 11.01 14:08 (64°,SW) | 11.01. 16:10 (48°,W) | 11.01 18:12 (29°,W) |
| 24.04 23:23 (19°,NE) | 25.04. 1:25 (37°,E) | 25.04 3:26 (55°,E) |
| 16.09 17:07 (48°,E) | 16.09. 19:09 (64°,SE) | 16.09 21:11 (67°,SW) |
| 17.10 17:30 (67°,SE) | 17.10. 19:32 (66°,SW) | 17.10 21:33 (50°,W) |
| 17.11 17:52 (63°,SW) | 17.11. 19:54 (47°,W) | 17.11 21:56 (28°,W) |
| 18.12 18:15 (43°,W) | 18.12. 20:16 (25°,W) | 18.12 22:18 (9°,NW) |



WASP-3 b

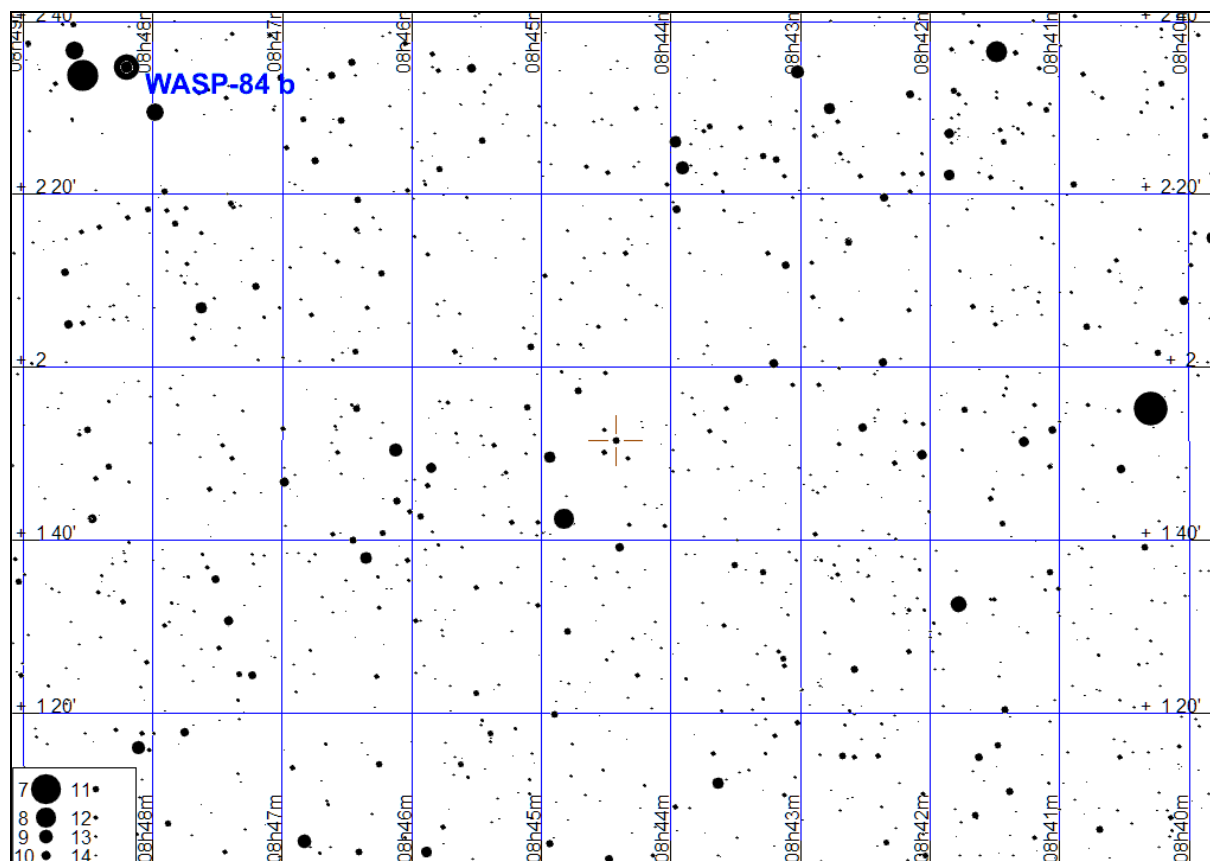
| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 07.01 1:53 (12°,NE) | 07.01. 3:02 (20°,NE) | 07.01 4:10 (29°,NE) |
| 12.01 14:52 (35°,W) | 12.01. 16:00 (25°,NW) | 12.01 17:09 (16°,NW) |
| 18.01 3:50 (32°,E) | 18.01. 4:59 (42°,E) | 18.01 6:07 (53°,E) |
| 31.01 2:06 (25°,NE) | 31.01. 3:15 (35°,E) | 31.01 4:23 (45°,E) |
| 13.02 0:22 (18°,NE) | 13.02. 1:31 (27°,NE) | 13.02 2:39 (37°,E) |
| 24.02 2:19 (40°,E) | 24.02. 3:27 (51°,E) | 24.02 4:36 (61°,E) |
| 25.02 22:38 (12°,NE) | 25.02. 23:47 (20°,NE) | 26.02 0:55 (29°,E) |
| 09.03 0:35 (32°,E) | 09.03. 1:43 (43°,E) | 09.03 2:52 (53°,E) |
| 21.03 22:51 (25°,NE) | 22.03. 0:00 (35°,E) | 22.03 1:08 (45°,E) |
| 02.04 0:48 (49°,E) | 02.04. 1:56 (59°,E) | 02.04 3:05 (68°,SE) |
| 03.04 21:07 (18°,NE) | 03.04. 22:16 (28°,NE) | 03.04 23:24 (38°,E) |
| 14.04 23:04 (41°,E) | 15.04. 0:12 (51°,E) | 15.04 1:21 (61°,E) |
| 16.04 19:23 (12°,NE) | 16.04. 20:32 (21°,NE) | 16.04 21:40 (30°,E) |
| 27.04 21:20 (33°,E) | 27.04. 22:28 (43°,E) | 27.04 23:37 (54°,E) |
| 08.05 23:17 (57°,E) | 09.05. 0:25 (66°,SE) | 09.05 1:34 (73°,S) |
| 10.05 19:36 (26°,NE) | 10.05. 20:45 (36°,E) | 10.05 21:53 (46°,E) |
| 21.05 21:33 (49°,E) | 21.05. 22:41 (60°,E) | 21.05 23:50 (69°,SE) |
| 01.06 23:29 (71°,SE) | 02.06. 0:38 (74°,S) | 02.06 1:46 (69°,SW) |
| 03.06 19:49 (41°,E) | 03.06. 20:57 (52°,E) | 03.06 22:06 (62°,E) |
| 14.06 21:45 (65°,SE) | 14.06. 22:54 (73°,SE) | 15.06 0:02 (73°,S) |
| 27.06 20:02 (58°,E) | 27.06. 21:10 (67°,SE) | 27.06 22:19 (73°,S) |
| 08.07 21:58 (74°,S) | 08.07. 23:07 (70°,SW) | 09.07 0:15 (62°,W) |
| 19.07 23:55 (58°,W) | 20.07. 1:03 (48°,W) | 20.07 2:12 (38°,W) |
| 21.07 20:14 (71°,SE) | 21.07. 21:23 (74°,S) | 21.07 22:31 (68°,SW) |
| 01.08 22:11 (65°,SW) | 01.08. 23:19 (56°,W) | 02.08 0:28 (46°,W) |
| 03.08 18:30 (65°,SE) | 03.08. 19:39 (73°,SE) | 03.08 20:47 (73°,S) |
| 13.08 0:08 (42°,W) | 13.08. 1:16 (32°,W) | 13.08 2:25 (22°,NW) |
| 14.08 20:27 (71°,SW) | 14.08. 21:36 (63°,SW) | 14.08 22:44 (53°,W) |
| 25.08 22:24 (50°,W) | 25.08. 23:32 (39°,W) | 26.08 0:41 (30°,W) |
| 27.08 18:43 (74°,S) | 27.08. 19:52 (70°,SW) | 27.08 21:00 (61°,W) |
| 07.09 20:40 (58°,W) | 07.09. 21:48 (47°,W) | 07.09 22:57 (37°,W) |
| 09.09 16:59 (71°,SE) | 09.09. 18:08 (74°,S) | 09.09 19:16 (68°,SW) |
| 18.09 22:36 (34°,W) | 18.09. 23:45 (24°,NW) | 19.09 0:53 (16°,NW) |
| 20.09 18:56 (65°,SW) | 20.09. 20:04 (55°,W) | 20.09 21:13 (45°,W) |
| 01.10 20:53 (41°,W) | 01.10. 22:01 (31°,W) | 01.10 23:10 (22°,NW) |
| 03.10 17:12 (71°,SW) | 03.10. 18:20 (63°,SW) | 03.10 19:29 (53°,W) |
| 14.10 19:09 (49°,W) | 14.10. 20:17 (39°,W) | 14.10 21:26 (29°,NW) |
| 16.10 15:28 (74°,S) | 16.10. 16:37 (70°,SW) | 16.10 17:45 (61°,W) |
| 27.10 17:25 (57°,W) | 27.10. 18:33 (47°,W) | 27.10 19:42 (37°,W) |
| 07.11 19:21 (33°,W) | 07.11. 20:30 (24°,NW) | 07.11 21:38 (15°,NW) |
| 09.11 15:41 (65°,SW) | 09.11. 16:49 (55°,W) | 09.11 17:58 (45°,W) |
| 20.11 17:37 (41°,W) | 20.11. 18:46 (31°,W) | 20.11 19:54 (22°,NW) |
| 03.12 15:54 (49°,W) | 03.12. 17:02 (39°,W) | 03.12 18:11 (29°,NW) |
| 22.12 3:08 (13°,NE) | 22.12. 4:17 (21°,NE) | 22.12 5:25 (30°,E) |
| 27.12 16:06 (33°,W) | 27.12. 17:15 (23°,NW) | 27.12 18:23 (15°,NW) |

WASP-3 b (c.d.)



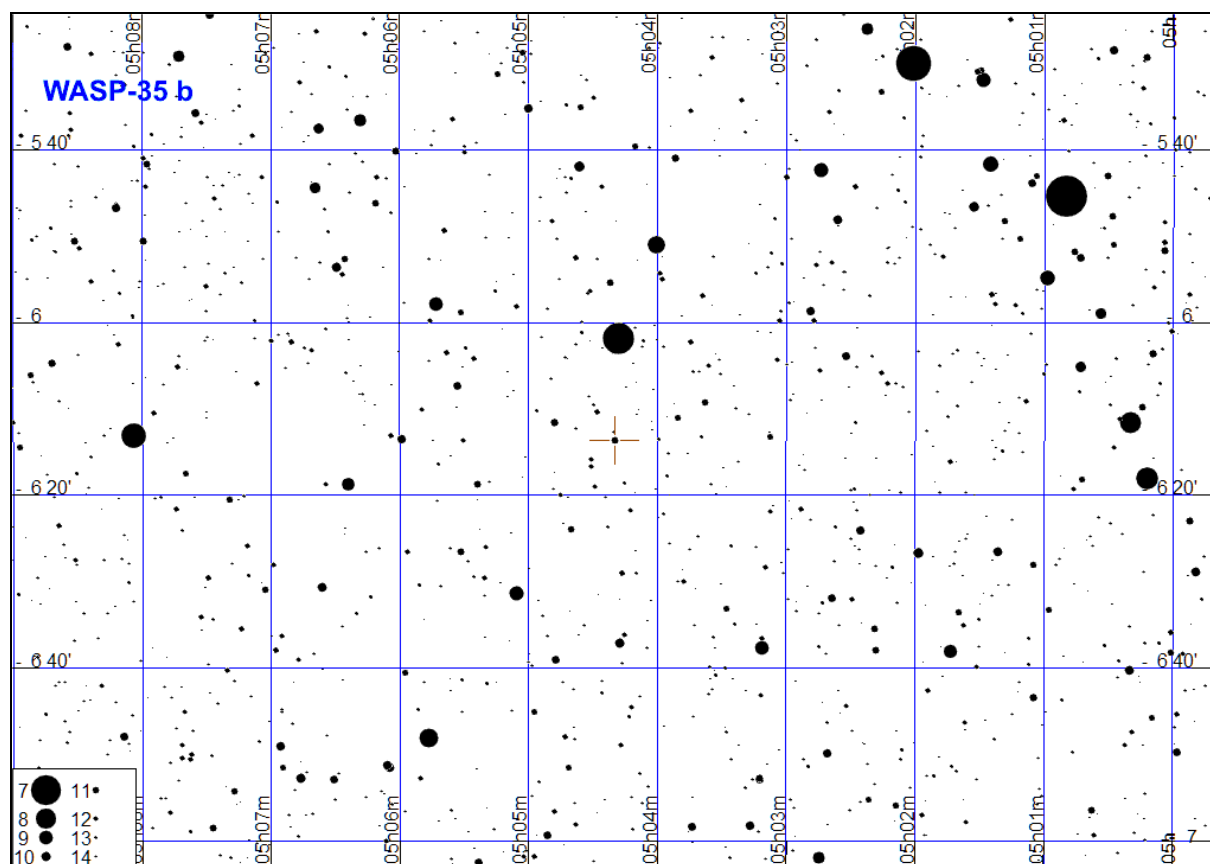
WASP-84 b

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 11.02 17:10 (14°,E) | 11.02. 18:32 (26°,SE) | 11.02 19:55 (35°,SE) |
| 28.02 18:18 (32°,SE) | 28.02. 19:40 (39°,S) | 28.02 21:03 (40°,S) |
| 17.03 19:25 (40°,S) | 17.03. 20:48 (38°,SW) | 17.03 22:10 (31°,SW) |
| 03.04 20:33 (34°,SW) | 03.04. 21:55 (24°,SW) | 03.04 23:18 (13°,W) |
| 19.11 23:46 (23°,SE) | 20.11. 1:08 (33°,SE) | 20.11 2:31 (39°,S) |
| 07.12 0:54 (37°,SE) | 07.12. 2:16 (40°,S) | 07.12 3:39 (37°,SW) |
| 24.12 2:01 (39°,S) | 24.12. 3:24 (33°,SW) | 24.12 4:46 (23°,SW) |



WASP-35 b

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 11.01 17:30 (23°,SE) | 11.01. 19:02 (31°,S) | 11.01 20:34 (32°,S) |
| 14.01 21:23 (30°,SW) | 14.01. 22:55 (22°,SW) | 15.01 0:27 (10°,SW) |
| 30.01 16:46 (26°,SE) | 30.01. 18:18 (32°,S) | 30.01 19:50 (31°,S) |
| 18.02 16:02 (29°,SE) | 18.02. 17:34 (33°,S) | 18.02 19:06 (30°,SW) |
| 09.09 0:13 (11°,SE) | 09.09. 1:45 (23°,SE) | 09.09 3:17 (31°,S) |
| 27.09 23:29 (16°,SE) | 28.09. 1:01 (26°,SE) | 28.09 2:33 (32°,S) |
| 16.10 22:45 (20°,SE) | 17.10. 0:17 (29°,SE) | 17.10 1:49 (32°,S) |
| 04.11 22:01 (23°,SE) | 04.11. 23:33 (31°,S) | 05.11 1:05 (32°,S) |
| 08.11 1:54 (30°,SW) | 08.11. 3:26 (22°,SW) | 08.11 4:58 (10°,W) |
| 23.11 21:17 (26°,SE) | 23.11. 22:49 (32°,S) | 24.11 0:21 (31°,S) |
| 12.12 20:33 (29°,SE) | 12.12. 22:05 (33°,S) | 12.12 23:37 (30°,SW) |
| 31.12 19:49 (31°,S) | 31.12. 21:21 (32°,S) | 31.12 22:53 (27°,SW) |



HAT-P-33

| Początek tranzytu | Srodek tranzytu | Koniec tranzytu |
|----------------------|-----------------------|----------------------|
| 04.01 16:52 (24°,NE) | 04.01. 19:04 (44°,E) | 04.01 21:17 (64°,SE) |
| 11.01 15:38 (18°,NE) | 11.01. 17:51 (37°,E) | 11.01 20:03 (57°,E) |
| 15.01 3:01 (40°,W) | 15.01. 5:14 (21°,NW) | 15.01 7:26 (5°,NW) |
| 18.01 14:25 (13°,NE) | 18.01. 16:37 (30°,E) | 18.01 18:50 (50°,E) |
| 22.01 1:48 (47°,W) | 22.01. 4:00 (27°,W) | 22.01 6:13 (10°,NW) |
| 29.01 0:34 (54°,W) | 29.01. 2:47 (34°,W) | 29.01 4:59 (15°,NW) |
| 04.02 23:21 (60°,SW) | 05.02. 1:33 (41°,W) | 05.02 3:46 (21°,NW) |
| 11.02 22:07 (66°,SW) | 12.02. 0:20 (48°,W) | 12.02 2:32 (28°,W) |
| 18.02 20:54 (70°,SW) | 18.02. 23:06 (54°,W) | 19.02 1:19 (34°,W) |
| 25.02 19:40 (72°,S) | 25.02. 21:53 (61°,SW) | 26.02 0:05 (42°,W) |
| 04.03 18:27 (70°,SE) | 04.03. 20:39 (67°,SW) | 04.03 22:52 (48°,W) |
| 11.03 17:13 (66°,SE) | 11.03. 19:26 (71°,SW) | 11.03 21:38 (55°,W) |
| 18.03 16:00 (59°,E) | 18.03. 18:12 (72°,S) | 18.03 20:25 (61°,SW) |
| 09.05 18:48 (46°,W) | 09.05. 21:01 (26°,NW) | 09.05 23:13 (9°,NW) |
| 16.05 17:35 (52°,W) | 16.05. 19:47 (32°,W) | 16.05 22:00 (14°,NW) |
| 28.08 23:12 (9°,NE) | 29.08. 1:25 (25°,NE) | 29.08 3:37 (44°,E) |
| 27.10 0:47 (54°,E) | 27.10. 3:00 (70°,SE) | 27.10 5:12 (67°,SW) |
| 02.11 23:34 (47°,E) | 03.11. 1:46 (66°,SE) | 03.11 3:59 (71°,SW) |
| 09.11 22:20 (40°,E) | 10.11. 0:33 (60°,SE) | 10.11 2:45 (72°,S) |
| 16.11 21:07 (33°,E) | 16.11. 23:19 (53°,E) | 17.11 1:32 (70°,SE) |
| 23.11 19:53 (26°,E) | 23.11. 22:06 (46°,E) | 24.11 0:18 (65°,SE) |
| 30.11 18:40 (20°,NE) | 30.11. 20:52 (39°,E) | 30.11 23:05 (59°,E) |
| 07.12 17:26 (14°,NE) | 07.12. 19:39 (32°,E) | 07.12 21:51 (53°,E) |
| 14.12 16:13 (9°,NE) | 14.12. 18:25 (26°,NE) | 14.12 20:38 (46°,E) |
| 21.12 14:59 (5°,NE) | 21.12. 17:12 (20°,NE) | 21.12 19:24 (38°,E) |
| 25.12 2:22 (58°,W) | 25.12. 4:35 (38°,W) | 25.12 6:47 (19°,NW) |

