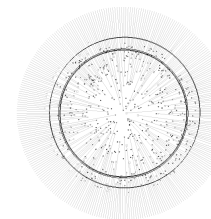




MMT OBSERVATORY HECTOCHELLE LOG



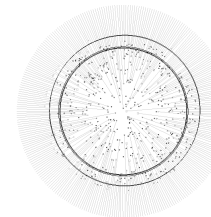
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UT Date 12/17/2025 Observers RH

File	Title	Filt	Exp	UT	RA	Dec	HA	Air	Prop	Bin	Comments
ring250.1425	ring250	RV31	0	22:07	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	2x1
ring250.1426	ring250	RV31	0	22:08	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1427	ring250	RV31	0	22:08	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1428	ring250	RV31	0	22:09	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1429	ring250	RV31	0	22:10	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1430	ring250	RV31	0	22:10	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1431	ring250	RV31	0	22:11	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1432	ring250	RV31	0	22:12	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1433	ring250	RV31	0	22:12	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1434	ring250	RV31	0	22:13	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
ring250.1435	ring250	RV31	0	22:14	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	2x2
ring250.1436	ring250	RV31	0	22:14	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
ring250.1437	ring250	RV31	0	22:15	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
ring250.1438	ring250	RV31	0	22:15	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
ring250.1439	ring250	RV31	0	22:16	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
ring250.1440	ring250	RV31	0	22:16	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
ring250.1441	ring250	RV31	0	22:17	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
ring250.1442	ring250	RV31	0	22:17	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
ring250.1443	ring250	RV31	0	22:17	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
ring250.1444	ring250	RV31	0	22:18	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	



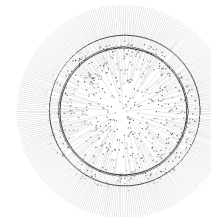
MMT OBSERVATORY HECTOCHELLE LOG



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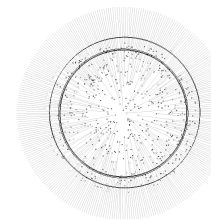
File	Title	Filt	Exp	UT	RA	Dec	HA	Air	Prop	Bin	Comments
ring250.1445	ring250	RV31	0	22:19	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	2x3
ring250.1446	ring250	RV31	0	22:19	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
ring250.1447	ring250	RV31	0	22:19	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
ring250.1448	ring250	RV31	0	22:20	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
ring250.1449	ring250	RV31	0	22:20	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
ring250.1450	ring250	RV31	0	22:20	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
ring250.1451	ring250	RV31	0	22:21	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
ring250.1452	ring250	RV31	0	22:21	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
ring250.1453	ring250	RV31	0	22:21	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
ring250.1454	ring250	RV31	0	22:22	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
domeflat.1455	ring250	OB25	3	22:26	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	OB25 2x3
domeflat.1456	ring250	OB25	3	22:26	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
domeflat.1457	ring250	OB25	3	22:27	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
domeflat.1458	ring250	OB25	3	22:27	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
domeflat.1459	ring250	OB25	3	22:28	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
domeflat.1460	ring250	OB25	3	22:28	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
domeflat.1461	ring250	OB25	3	22:29	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
comp.1462	ring250	OB25	180	22:30	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
comp.1463	ring250	OB25	180	22:33	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	
comp.1464	ring250	OB25	180	22:36	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x3	

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<i>File</i>	<i>Title</i>	<i>Filt</i>	<i>Exp</i>	<i>UT</i>	<i>RA</i>	<i>Dec</i>	<i>HA</i>	<i>Air</i>	<i>Prop</i>	<i>Bin</i>	<i>Comments</i>
domeflat.1465	ring250	Na28	20	22:42	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	Na28 2x1
domeflat.1466	ring250	Na28	20	22:43	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1467	ring250	Na28	20	22:44	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1468	ring250	Na28	20	22:45	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1469	ring250	Na28	20	22:46	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1470	ring250	Na28	20	22:47	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1471	ring250	Na28	20	22:48	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1472	ring250	Na28	240	22:50	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1473	ring250	Na28	240	22:55	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1474	ring250	Na28	240	22:59	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1475	ring250	Ca41	250	23:06	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	Ca41 2x1
comp.1476	ring250	Ca41	250	23:11	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1477	ring250	Ca41	250	23:15	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1478	ring250	Ca41	200	23:21	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1479	ring250	Ca41	200	23:25	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1480	ring250	Ca41	200	23:29	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1481	ring250	Ca41	200	23:33	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1482	ring250	Ca41	200	23:37	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1483	ring250	Ca41	200	23:41	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1484	ring250	Ca41	200	23:45	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	



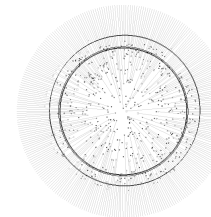
MMT OBSERVATORY HECTOHELLE LOG



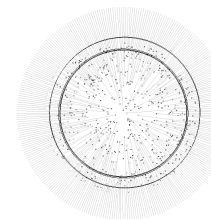
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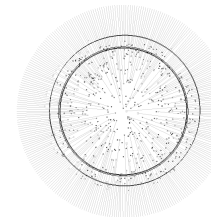
File	Title	Filt	Exp	UT	RA	Dec	HA	Air	Prop	Bin	Comments
domeflat.1485	ring250	OB32	40	23:51	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	OB32 2x1
domeflat.1486	ring250	OB32	40	23:53	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1487	ring250	OB32	40	23:54	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1488	ring250	OB32	40	23:56	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1489	ring250	OB32	40	23:57	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1490	ring250	OB32	40	23:59	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
domeflat.1491	ring250	OB32	40	00:00	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
sflat.1492	ring250	OB32	45	00:12	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	Counts are a little high
sflat.1493	ring250	OB32	35	00:14	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	Counts are good. OB32 2x1
sflat.1494	ring250	OB32	40	00:15	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
sflat.1495	ring250	OB32	40	00:17	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
sflat.1496	ring250	OB32	45	00:18	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1497	ring250	OB32	240	00:25	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1498	ring250	OB32	240	00:30	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1499	ring250	OB32	240	00:35	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x1	
comp.1500	ring250	OB25	360	00:42	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	Ob25 1x1
comp.1501	ring250	OB25	360	00:49	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
comp.1502	ring250	OB25	360	00:56	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
domeflat.1503	ring250	OB25	20	01:04	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
domeflat.1504	ring250	OB25	20	01:05	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	

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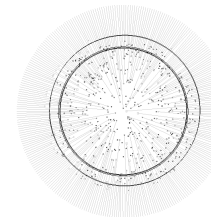
<i>File</i>	<i>Title</i>	<i>Filt</i>	<i>Exp</i>	<i>UT</i>	<i>RA</i>	<i>Dec</i>	<i>HA</i>	<i>Air</i>	<i>Prop</i>	<i>Bin</i>	<i>Comments</i>
domeflat.1505	ring250	OB25	20	01:07	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
domeflat.1506	ring250	OB25	20	01:08	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
domeflat.1507	ring250	OB25	20	01:10	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
domeflat.1508	ring250	OB25	20	01:11	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
domeflat.1509	ring250	OB25	20	01:12	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1510	ring250	OB25	0	01:14	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	1x1
ring250.1511	ring250	OB25	0	01:15	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1512	ring250	OB25	0	01:16	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1513	ring250	OB25	0	01:17	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1514	ring250	OB25	0	01:18	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1515	ring250	OB25	0	01:19	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1516	ring250	OB25	0	01:20	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1517	ring250	OB25	0	01:21	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1518	ring250	OB25	0	01:22	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
ring250.1519	ring250	OB25	0	01:23	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	1x1	
domeflat.1520	ring250	OB24	5	01:26	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	OB24 2x2
domeflat.1521	ring250	OB24	5	01:26	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
domeflat.1522	ring250	OB24	5	01:27	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
domeflat.1523	ring250	OB24	5	01:28	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
domeflat.1524	ring250	OB24	5	01:28	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	

UT Date 12/17/2025 Observers RH

File	Title	Filt	Exp	UT	RA	Dec	HA	Air	Prop	Bin	Comments
domeflat.1525	ring250	OB24	5	01:29	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
domeflat.1526	ring250	OB24	5	01:30	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
comp.1527	ring250	OB24	180	01:30	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
comp.1528	ring250	OB24	180	01:34	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
comp.1529	ring250	OB24	180	01:37	-01:00:00.0	-100:00:00	-00:00	1.00	calibration	2x2	
g70f1_faint.2.1530	g70f1_faint	Na28	720	02:01	+21:25:13.7	+18:33:59	+02:55	1.33	2025B-SA0-7	2x1	Clear, seeing=1.3"
g70f1_faint.2.1531	g70f1_faint	Na28	720	02:14	+21:25:13.7	+18:33:59	+03:08	1.39	2025B-SA0-7	2x1	
g70f1_faint.2.1532	g70f1_faint	Na28	720	02:27	+21:25:13.7	+18:33:59	+03:21	1.46	2025B-SA0-7	2x1	
domeflat.1533	g70f1_faint	Na28	20	02:40	+21:25:13.7	+18:33:59	+03:34	1.54	2025B-SA0-7	2x1	
comp.1534	g70f1_faint	Na28	240	02:41	+21:25:13.7	+18:33:59	+03:35	1.55	2025B-SA0-7	2x1	
domeflat.1535	m37_2025B_faint	OB24	5	03:24	+05:52:19.5	+32:32:14	-04:08	1.61	2025B-UA0-G337	2x2	
comp.1536	m37_2025B_faint	OB24	180	03:33	+05:52:19.5	+32:32:14	-03:59	1.55	2025B-UA0-G337	2x2	
m37_2025B_faint.1.1537	m37_2025B_faint	OB24	3000	03:37	+05:52:19.5	+32:32:14	-03:55	1.53	2025B-UA0-G337	2x2	Clear, seeing=.9"
m37_2025B_faint.1.1538	m37_2025B_faint	OB24	3000	04:28	+05:52:19.5	+32:32:14	-03:05	1.28	2025B-UA0-G337	2x2	
m37_2025B_faint.1.1539	m37_2025B_faint	OB24	3000	05:18	+05:52:19.5	+32:32:14	-02:14	1.13	2025B-UA0-G337	2x2	
comp.1540	m37_2025B_faint	OB24	180	06:09	+05:52:19.5	+32:32:14	-01:23	1.04	2025B-UA0-G337	2x2	
domeflat.1541	ngc2264_guideupdate2	OB25	3	06:30	+06:40:43.3	+09:24:54	-01:50	1.20	2025B-UA0-S178	2x3	
comp.1542	ngc2264_guideupdate2	OB25	180	06:30	+06:40:43.3	+09:24:54	-01:50	1.20	2025B-UA0-S178	2x3	
ngc2264_guideupdate2.2.1543	ngc2264_guideupdate2	OB25	1200	06:34	+06:40:43.3	+09:24:54	-01:46	1.19	2025B-UA0-S178	2x3	Clear, seeing=.8"
ngc2264_guideupdate2.2.1544	ngc2264_guideupdate2	OB25	1200	06:55	+06:40:43.3	+09:24:54	-01:25	1.15	2025B-UA0-S178	2x3	

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File	Title	Filt	Exp	UT	RA	Dec	HA	Air	Prop	Bin	Comments
ngc2264_guideupdate2.2.1545	ngc2264_guideupdate2	OB25	1200	07:15	+06:40:43.3	+09:24:54	-01:05	1.12	2025B-UA0-S178	2x3	
comp.1546	ngc2264_guideupdate2	OB25	180	07:36	+06:40:43.3	+09:24:54	-00:44	1.10	2025B-UA0-S178	2x3	
hb9f1_faint.3.1547	hb9f1_faint	Na28	720	07:55	+05:00:39.2	+45:56:48	+01:14	1.06	2025B-SAO-7	2x1	Clear, seeing=1"
hb9f1_faint.3.1548	hb9f1_faint	Na28	720	08:08	+05:00:39.2	+45:56:48	+01:27	1.07	2025B-SAO-7	2x1	
hb9f1_faint.3.1549	hb9f1_faint	Na28	720	08:21	+05:00:39.2	+45:56:48	+01:39	1.09	2025B-SAO-7	2x1	
domeflat.1550	hb9f1_faint	Na28	20	08:34	+05:00:39.2	+45:56:48	+01:52	1.11	2025B-SAO-7	2x1	
comp.1551	hb9f1_faint	Na28	240	08:35	+05:00:39.2	+45:56:48	+01:54	1.11	2025B-SAO-7	2x1	
domeflat.1552	Dol25_F2	OB25	20	08:56	+06:44:47.1	+00:10:33	+00:31	1.18	2025B-SAO-1	1x1	
comp.1553	Dol25_F2	OB25	360	08:57	+06:44:47.1	+00:10:33	+00:33	1.18	2025B-SAO-1	1x1	
Dol25_F2_1.1554	Dol25_F2	OB25	2400	09:05	+06:44:47.1	+00:10:33	+00:40	1.19	2025B-SAO-1	1x1	Clear, seeing=.8"
Dol25_F2_1.1555	Dol25_F2	OB25	2400	09:46	+06:44:47.1	+00:10:33	+01:21	1.25	2025B-SAO-1	1x1	
Dol25_F2_1.1556	Dol25_F2	OB25	2400	10:27	+06:44:47.1	+00:10:33	+02:02	1.36	2025B-SAO-1	1x1	
comp.1557	Dol25_F2	OB25	360	11:08	+06:44:47.1	+00:10:33	+02:43	1.55	2025B-SAO-1	1x1	
monocerosf1_faint.1.1558	monocerosf1_faint	Na28	360	11:29	+06:39:10.4	+06:31:39	+03:10	1.59	2025B-SAO-7	2x1	Clear, seeing=.9"
monocerosf1_faint.1.1559	monocerosf1_faint	Na28	360	11:36	+06:39:10.4	+06:31:39	+03:17	1.64	2025B-SAO-7	2x1	
monocerosf1_faint.1.1560	monocerosf1_faint	Na28	360	11:43	+06:39:10.4	+06:31:39	+03:24	1.69	2025B-SAO-7	2x1	
domeflat.1561	monocerosf1_faint	Na28	20	11:50	+06:39:10.4	+06:31:39	+03:31	1.75	2025B-SAO-7	2x1	
comp.1562	monocerosf1_faint	Na28	240	11:51	+06:39:10.4	+06:31:39	+03:32	1.76	2025B-SAO-7	2x1	
domeflat.1563	m101_snr	OB32	40	12:13	+14:03:05.8	+54:24:17	-03:28	1.36	2025B-SAO-7	2x1	
comp.1564	m101_snr	OB32	240	12:14	+14:03:05.8	+54:24:17	-03:27	1.36	2025B-SAO-7	2x1	

UT Date 12/17/2025 Observers RH

File	Title	Filt	Exp	UT	RA	Dec	HA	Air	Prop	Bin	Comments
m101_snr_1.1565	m101_snr	OB32	1200	12:19	+14:03:05.8	+54:24:17	-03:22	1.34	2025B-SAO-7	2x1	Few thin clouds, seeing= 8"
m101_snr_1.1566	m101_snr	OB32	1200	12:40	+14:03:05.8	+54:24:17	-03:01	1.29	2025B-SAO-7	2x1	
m101_snr_1.1567	m101_snr	OB32	1200	13:01	+14:03:05.8	+54:24:17	-02:40	1.24	2025B-SAO-7	2x1	
comp.1568	m101_snr	OB32	240	13:22	+14:03:05.8	+54:24:17	-02:19	1.19	2025B-SAO-7	2x1	
dark.1570	parked	OB32	900	13:36	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	2x2	
dark.1571	parked	OB32	900	13:51	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	2x2	
dark.1572	parked	OB32	900	14:07	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	2x2	
dark.1573	parked	OB32	900	14:23	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	2x1	
dark.1574	parked	OB32	900	14:38	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	2x1	
dark.1575	parked	OB32	900	14:54	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	2x1	
dark.1576	parked	OB32	900	15:10	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	1x1	
dark.1577	parked	OB32	900	15:26	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	1x1	
dark.1578	parked	OB32	900	15:42	-01:00:00.0	-100:00:00	-00:00	1.00	calibratio n	1x1	