

**ALMA Observing Activity from 2018-12-03T17:59:00 to 2018-12-10T18:00:00**  
**QA0 pass executions**

**2018-12-03**

Start (UT)	End (UT)	Project Code	SchedBlock	Project Title	PI	Executive	Array	Band
23:50:06	00:38:20	2018.1.00922.S	helms5_a_05_7M	Nature of Herschel-Selected Distant Starbursts (Time Filler)	Riechers	NA	7-m	5

**2018-12-04**

Start (UT)	End (UT)	Project Code	SchedBlock	Project Title	PI	Executive	Array	Band
01:01:05	01:51:19	2018.1.00922.S	helms9_a_05_7M	Nature of Herschel-Selected Distant Starbursts (Time Filler)	Riechers	NA	7-m	5
01:01:52	02:08:16	2018.1.00337.S	DDO_221_a_06_TM1	Low Metallicity Molecular Gas In the Dwarf Galaxy WLM	Rubio	CL	12-m	6
02:08:38	02:50:32	2018.1.01205.L	NGC1333_d_06_TM2	Fifty AU STudy of the chemistry in the Yamamoto disk/envelope system of Solar-like protostars (FAUST)		EA EU NA	12-m	6
02:27:34	03:45:54	2018.1.00162.S	ngc253_h_05_7M	ALCHEMI II: Filling the Band 5 gap	Martin	EU	7-m	5
02:33:20	04:22:56	2018.1.00756.S	MC11_a_06_TP	A comprehensive survey to study the evolution of high-density cores in Taurus	Tachihara	EA	Total Power	6
02:52:12	03:33:52	2018.1.01205.L	NGC1333_d_06_TM2	Fifty AU STudy of the chemistry in the Yamamoto disk/envelope system of Solar-like protostars (FAUST)		EA EU NA	12-m	6
03:33:59	04:54:02	2018.1.01366.S	ST2_a_07_TM1	Unveiling chemical compositions of high-mass star-forming cores in low metallicity galaxies	Shimonishi	EA	12-m	7
03:48:48	05:37:34	2018.1.01670.S	SPT0125-_a_08_7M	Building a sample of [NII] 122 and 205Cunningham micron emission lines in high-z dusty star forming galaxies		NA	7-m	8
04:23:03	05:31:14	2018.1.01868.S	MonR2_a_04_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	4
04:54:09	05:59:42	2018.1.01366.S	ST16_a_07_TM1	Unveiling chemical compositions of high-mass star-forming cores in low metallicity galaxies	Shimonishi	EA	12-m	7
05:37:41	06:54:14	2018.1.01753.S	HH30_a_06_7M	Detecting the envelope surrounding the HH30 T-Tauri star	Louvet	CL	7-m	6
05:42:52	07:27:30	2018.1.01687.S	OMC3-MMS_a_08_TP	Resolving the complete outflow density and kinematics structures by observing [CI] (1-0)	Zhang	EU	Total Power	8
05:59:49	07:05:05	2018.1.01366.S	ST16_a_07_TM1	Unveiling chemical compositions of high-mass star-forming cores in low metallicity galaxies	Shimonishi	EA	12-m	7
06:54:22	08:38:45	2018.1.01868.S	MonR2_a_05_7M	Deuteration in warm dense gas regions	Treviño-Morales	EU	7-m	5
07:05:12	07:33:08	2018.1.01188.S	J0706+29_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at $z>6.5$	Wang	NA	12-m	6
07:27:38	08:35:21	2018.1.01868.S	MonR2_a_04_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	4
07:46:32	08:22:21	2018.1.00932.S	SDSS0850_a_06_TM1	Extremely UV-luminous star-forming galaxies: unveiling the very early phase of SMGs	Marques-Chaves	EU	12-m	6
08:32:39	09:36:37	2018.1.01551.S	COS-2987_a_05_TM1	On the origin of [CII] in the Epoch of Reionization	Smit	EU	12-m	5
08:35:29	09:38:53	2018.1.01001.S	Mystic_M_a_06_TP	Into the Mystic: testing the role of ionizing feedback in regulating star formation	Reiter	NA	Total Power	6
08:41:37	09:39:15	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
10:46:45	12:13:20	2017.1.00775.S	A1689-zD_a_08_TM1	Mapping all phases of the ISM in a normal reionisation-epoch galaxy	Watson	EU	12-m	8
10:51:06	11:30:21	2018.1.00272.S	NGC4038_a_03_TP	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	Total Power	3
10:52:08	11:30:15	2018.1.00272.S	NGC4038_a_03_7M	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	7-m	3
12:40:53	13:57:41	2018.1.00135.S	NGC_5775_a_06_TP	Extra-planar & Diffuse Molecular Gas in Spiral Galaxies	Zschaechner	EU	Total Power	6
12:41:09	14:15:38	2018.1.00135.S	NGC_5775_a_06_7M	Extra-planar & Diffuse Molecular Gas in Spiral Galaxies	Zschaechner	EU	7-m	6

12:42:13	13:21:40	2018.1.00493.S	IRAS1312_a_07_TM1	Probing CN excitation and abundance in dense gas in luminous infrared galaxies	Wilson	NA	12-m	7
13:27:33	14:05:10	2018.1.00966.S	G15v2.77_a_06_TM1	Tracing cosmic-ray ionization rates and fluxes in sub-mm galaxies out to z~6	Indriolo	NA	12-m	6
14:01:46	15:39:25	2018.1.01639.S	Oph-C-N_a_07_TP	Highly deuterated starless cores with low CO freeze out: a chemical puzzle	Punanova	EU	Total Power	7
14:14:16	15:11:52	2018.1.01623.S	2MASS_J1_a_06_TM1	Tracing Gas Dissipation in the Transition Stage	Anderson	NA	12-m	6
14:27:54	16:29:05	2018.1.00331.S	AG351.57_a_07_7M	Does H2D+ probe the coldest and densest parts of molecular clumps?	Bovino	CL	7-m	7
15:11:59	16:15:38	2018.1.01055.L	HD163296_a_06_TM2	The Chemistry of Planet Formation	Oberg	CL EA EU NA	12-m	6
16:26:53	17:24:26	2018.1.01623.S	2MASS_J1_a_06_TM1	Tracing Gas Dissipation in the Transition Stage	Anderson	NA	12-m	6
23:22:22	23:48:58	2018.1.01454.T	GRB_1812_c_03_TM1	Gamma-ray Burst Physics with ALMA: Direct Implications for the Explosions and Progenitors	Laskar	NA	12-m	3
23:24:28	00:39:53	2018.1.00162.S	ngc253_g_05_7M	ALCHEMI II: Filling the Band 5 gap	Martin	EU	7-m	5
23:49:06	00:55:56	2018.1.00337.S	DDO_221_a_06_TM1	Low Metallicity Molecular Gas In the Dwarf Galaxy WLM	Rubio	CL	12-m	6
<b>2018-12-05</b>								
Start (UT)	End (UT)	Project Code	SchedBlock	Project Title	PI	Executive	Array	Band
00:53:20	02:07:30	2018.1.00162.S	ngc253_g_05_7M	ALCHEMI II: Filling the Band 5 gap	Martin	EU	7-m	5
01:12:13	02:24:43	2018.1.01044.S	xuds_069_a_06_TM1	The systematic search for a causal connection between AGN-driven outflows and star formation	Scholtz	EU	12-m	6
01:48:28	03:38:21	2018.1.00756.S	MC11_a_06_TP	A comprehensive survey to study the evolution of high-density cores in Taurus	Tachihara	EA	Total Power	6
02:24:50	02:53:49	2018.1.01188.S	J0224-47_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at z>6.5	Wang	NA	12-m	6
02:53:56	03:45:27	2018.1.00699.S	IRAS_F05_a_06_TM1	Resolving Massive Molecular Outflows in a Representative Sample of Local ULIRGs	Pereira Santaella	EU	12-m	6
03:01:20	03:41:41	2018.1.00162.S	ngc253_g_05_7M	ALCHEMI II: Filling the Band 5 gap	Martin	EU	7-m	5
03:41:47	06:37:44	2018.1.00815.S	46PWirta_a_08_7M	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen	Biver	EU	7-m	8
03:43:19	05:12:00	2018.1.00815.S	46PWirta_a_08_TP	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen	Biver	EU	Total Power	8
03:45:34	04:36:45	2018.1.00973.S	RW_Aur_a_06_TM1	Probing the effects of a tidal encounter on the sub-structure of a protoplanetary disk	Facchini	EU	12-m	6
04:36:53	05:01:51	2018.1.01344.S	NGC1792_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
05:01:58	05:57:54	2018.1.00295.S	SPT0615-_d_07_TM1	FIR [O III] emission from a candidate z ~ 10 galaxy	Tamura	EA	12-m	7
05:12:08	06:40:08	2018.1.00815.S	46PWirta_a_08_TP	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen	Biver	EU	Total Power	8
06:18:37	06:47:03	2018.1.01188.S	J0439+16_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at z>6.5	Wang	NA	12-m	6
06:37:53	08:22:26	2018.1.01868.S	MonR2_a_05_7M	Deuteration in warm dense gas regions	Treviño-Morales	EU	7-m	5
06:40:16	07:59:53	2018.1.01868.S	MonR2_a_05_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	5
06:47:10	07:22:47	2018.1.01188.S	J0910-04_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at z>6.5	Wang	NA	12-m	6
07:22:54	07:48:42	2018.1.01188.S	J0921+00_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at z>6.	Wang	NA	12-m	6

07:48:49	08:15:04	2018.1.01188.S	J0923+04_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at $z>6.5$	Wang	NA	12-m	6
08:00:58	09:19:41	2018.1.01868.S	MonR2_a_05_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	5
08:15:11	08:43:11	2018.1.01188.S	J0910+16_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at $z>6.5$	Wang	NA	12-m	6
08:27:24	09:45:59	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
08:43:18	09:57:12	2018.1.01044.S	cid_1057_a_06_TM1	The systematic search for a causal connection between AGN-driven outflows and star formation	Scholtz	EU	12-m	6
09:22:31	10:44:54	2018.1.00272.S	NGC4038_a_03_TP	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	Total Power	3
09:46:06	11:09:40	2018.1.00680.S	HSC_J094_a_03_7M	The highest resolution imaging of the Sunyaev-Zel'dovich effect at $z>1$	Kitayama	EA	7-m	3
10:10:02	11:40:36	2017.1.01052.S	ALMA_J12_a_08_TM1	Mapping the Interstellar Medium of HI-Rich Galaxies at $z\sim 4$	Neeleman	NA	12-m	8
11:20:41	12:50:09	2018.1.00135.S	NGC_5775_a_06_7M	Extra-planar & Diffuse Molecular Gas in Spiral Galaxies	Zschaechner	EU	7-m	6
11:23:26	12:39:46	2018.1.00135.S	NGC_5775_a_06_TP	Extra-planar & Diffuse Molecular Gas in Spiral Galaxies	Zschaechner	EU	Total Power	6
11:57:55	13:21:17	2018.1.00616.S	MACS1149_a_07_TM1	Anatomy of a spectroscopically-confirmed lensed galaxy at $z=9.11$	Hashimoto	EA	12-m	7
12:50:06	14:12:21	2018.1.01559.S	L204_edg_a_08_TP	Examination of Clumpy PDR models and Initial Conditions of Molecular Cloud Formation	Tachihara	EA	Total Power	8
13:14:16	13:51:36	2018.1.00994.S	IRAS_F14_a_08_7M	CI(1-0) and CO(4-3) survey for nearby $\sim 40$ U/LIRGs- Band8 ACA stand alone observation -	Michiyama	EA	7-m	8
13:23:38	14:44:23	2018.1.00564.S	2MASS_J1_b_07_TM1	Completing the Census of Disks in the Upper Sco OB Association	Carpenter	NA	12-m	7
13:59:14	15:42:20	2018.1.01559.S	L204_edg_a_08_7M	Examination of Clumpy PDR models and Initial Conditions of Molecular Cloud Formation	Tachihara	EA	7-m	8
14:20:10	14:57:45	2018.1.01559.S	L204_edg_a_08_TP	Examination of Clumpy PDR models and Initial Conditions of Molecular Cloud Formation	Tachihara	EA	Total Power	8
14:53:21	15:15:03	2018.1.01344.S	NGC5248_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
15:15:08	15:42:35	2018.1.00794.S	G350.29+_a_06_TM1	A high-mass young star mimicking a red-giant?	Kumar	EU	12-m	6
22:38:35	23:18:51	2018.1.00994.S	IRAS_F22_b_08_7M	CI(1-0) and CO(4-3) survey for nearby $\sim 40$ U/LIRGs- Band8 ACA stand alone observation -	Michiyama	EA	7-m	8
23:29:48	01:14:42	2018.1.01114.S	46PWirta_b_07_7M	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	7-m	7

**2018-12-06**

Start (UT)	End (UT)	Project Code	SchedBlock	Project Title	PI	Executive	Array	Band
00:11:05	00:36:39	2018.1.00279.S	IRASF013_a_07_TM2	High Resolution Survey of the Gas and Dust Distribution in Nearby Luminous Infrared Galaxies	Barcos-Munoz	NA	12-m	7
00:36:45	01:24:04	2018.1.00294.S	NGC253_a_07_TM2	Ionized Gas, Radiation Field, Masses, and Dust Temperature in Forming Massive Clusters in the NGC253 Starburst	Bolatto	NA	12-m	7
01:10:29	02:18:05	2018.1.01565.S	HOPS_85_a_06_TP	Tracing the accretion history of protostars using outflows, an ACA+TP survey	Megeath	NA	Total Power	6
01:14:50	03:00:18	2018.1.01114.S	46PWirta_b_07_7M	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	7-m	7
01:40:21	02:27:22	2018.1.00294.S	NGC253_a_07_TM2	Ionized Gas, Radiation Field, Masses, and Dust Temperature in	Bolatto	NA	12-m	7

02:18:10	03:25:47	2018.1.01565.S	HOPS_85_a_06_TP	Forming Massive Clusters in the NGC253 Starburst Tracing the accretion history of protostars using outflows, an ACA+TP survey	Megeath	NA	Total Power	6
02:27:29	03:09:23	2018.1.01205.L	NGC1333_b_06_TM2	Fifty AU STudy of the chemistry in the disk/envelope system of Solar-like protostars (FAUST)	Yamamoto	EA EU NA	12-m	6
03:09:30	04:18:07	2018.1.00649.S	omi_Cet_a_08_TM1	Revealing the source of Cl enhancement in the oxygen-rich AGB star omi Cet	Saberi	EU	12-m	8
03:12:37	04:57:32	2018.1.01114.S	46PWirta_b_07_7M	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	7-m	7
03:25:55	04:58:27	2018.1.00756.S	MC11_a_06_TP	A comprehensive survey to study the evolution of high-density cores in Taurus	Tachihara	EA	Total Power	6
04:33:26	05:42:44	2018.1.00627.S	WB89-789_a_06_TM1	Searching for hot molecular cores in the extreme outer Galaxy	Shimonishi	EA	12-m	6
04:58:42	06:26:57	2018.1.00815.S	46PWirta_a_08_TP	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen		EU	Total Power	8
04:58:48	06:44:16	2018.1.00815.S	46PWirta_a_08_7M	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen		EU	7-m	8
05:42:51	06:25:08	2018.1.01488.S	NGC1377_a_09_TM2	A 150-pc Precessing Molecular Jet in the S0 Galaxy NGC1377: Outburst from an Accreting SMBH II	Aalto	EU	12-m	9
06:26:23	07:35:21	2018.1.00627.S	WB89-789_a_06_TM1	Searching for hot molecular cores in the extreme outer Galaxy	Shimonishi	EA	12-m	6
06:27:35	07:17:17	2018.1.00815.S	46PWirta_a_08_TP	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen		EU	Total Power	8
06:49:48	07:52:43	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
07:24:35	08:43:36	2018.1.01868.S	MonR2_a_05_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	5
07:57:10	08:51:25	2018.1.00321.S	IC_485_a_05_TM1	A survey of 183 GHz water megamasers in nearby AGN	Pesce	NA	12-m	5
07:59:05	09:22:30	2018.1.00680.S	HSC_J094_a_03_7M	The highest resolution imaging of the Sunyaev-Zel'dovich effect at $z>1$	Kitayama	EA	7-m	3
08:47:09	10:09:20	2018.1.00272.S	NGC4038_a_03_TP	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	Total Power	3
08:51:32	09:38:52	2018.1.01429.S	HD_10045_a_05_TM1	The first molecular line inventory in hybrid disks	Henning	EU	12-m	5
09:22:37	10:45:41	2018.1.00680.S	HSC_J094_a_03_7M	The highest resolution imaging of the Sunyaev-Zel'dovich effect at $z>1$	Kitayama	EA	7-m	3
09:38:59	10:12:11	2018.1.01188.S	J1104+21_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at $z>6.5$	Wang	NA	12-m	6
10:09:41	11:06:27	2017.1.00079.S	M83_b_03_TP	Mapping Molecular ISM in the Whole Disk of M83	Koda	NA	Total Power	3
10:13:34	10:46:41	2018.1.01344.S	NGC4254_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
10:56:48	11:29:49	2018.1.01344.S	NGC4501_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
11:15:47	12:39:14	2018.1.00680.S	HSC_J094_a_03_7M	The highest resolution imaging of the Sunyaev-Zel'dovich effect at $z>1$	Kitayama	EA	7-m	3
11:19:01	12:35:21	2018.1.00135.S	NGC_5775_a_06_TP	Extra-planar & Diffuse Molecular Gas in Spiral Galaxies	Zschaechner	EU	Total Power	6
11:36:17	12:10:11	2018.1.01344.S	NGC3810_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
12:34:26	13:30:50	2018.1.00321.S	CGCG_074_a_05_TM1	A survey of 183 GHz water megamasers in nearby AGN	Pesce	NA	12-m	5
12:35:29	14:08:03	2018.1.01639.S	Oph-C-N_a_07_TP	Highly deuterated starless cores with low CO freeze out: a chemical puzzle	Punanova	EU	Total Power	7
12:39:22	14:08:58	2018.1.00135.S	NGC_5775_a_06_7M	Extra-planar & Diffuse Molecular Gas in Spiral Galaxies	Zschaechner	EU	7-m	6
13:32:37	14:25:36	2018.1.00321.S	NGC_5765_a_05_TM1	A survey of 183 GHz water megamasers in nearby AGN	Pesce	NA	12-m	5

14:20:31	16:02:43	2018.1.01559.S	L204_edg_a_08_7M	Examination of Clumpy PDR models and Initial Conditions of Molecular Cloud Formation	Tachihara	EA	7-m	8
14:48:19	15:45:35	2018.1.00321.S	CGCG_165_a_05_TM1	A survey of 183 GHz water megamasers in nearby AGN	Pesce	NA	12-m	5
15:55:55	16:46:06	2018.1.00321.S	NGC_5495_a_05_TM1	A survey of 183 GHz water megamasers in nearby AGN	Pesce	NA	12-m	5
16:59:19	17:24:22	2018.1.01254.S	B4_SPT20_a_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
17:26:04	17:47:30	2018.1.01254.S	SPT2101-_a_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
17:47:37	18:13:31	2018.1.01254.S	SPT2129-_b_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
22:41:23	23:56:09	2018.1.00162.S	ngc253_g_05_7M	ALCHEMI II: Filling the Band 5 gap	Martin	EU	7-m	5
23:13:10	23:39:54	2018.1.01188.S	J0038-15_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at $z>6.5$	Wang	NA	12-m	6
23:49:26	00:56:28	2018.1.00337.S	DDO_221_a_06_TM1	Low Metallicity Molecular Gas In the Dwarf Galaxy WLM	Rubio	CL	12-m	6
23:56:17	01:20:10	2018.1.00162.S	ngc253_c_05_7M	ALCHEMI II: Filling the Band 5 gap	Martin	EU	7-m	5
<b>2018-12-07</b>								
Start (UT)	End (UT)	Project Code	SchedBlock	Project Title	PI	Executive	Array	Band
00:57:51	02:04:36	2018.1.00337.S	DDO_221_a_06_TM1	Low Metallicity Molecular Gas In the Dwarf Galaxy WLM	Rubio	CL	12-m	6
01:35:14	03:19:35	2018.1.00756.S	MC11_a_06_TP	A comprehensive survey to study the evolution of high-density cores in Taurus	Tachihara	EA	Total Power	6
02:18:32	03:13:02	2018.1.01114.S	46PWirta_a_06_TM1	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	12-m	6
03:13:09	04:07:05	2018.1.01114.S	46PWirta_a_06_TM1	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	12-m	6
03:18:39	05:18:08	2018.1.00815.S	46PWirta_a_08_7M	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen		EU	7-m	8
03:24:30	04:53:00	2018.1.00815.S	46PWirta_a_08_TP	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen		EU	Total Power	8
04:07:12	05:21:52	2018.1.00306.S	HC672_a_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
04:59:27	06:27:29	2018.1.00815.S	46PWirta_a_08_TP	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen		EU	Total Power	8
05:18:16	06:43:50	2018.1.00815.S	46PWirta_a_08_7M	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen		EU	7-m	8
05:21:59	06:36:08	2018.1.00306.S	HC672_a_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
06:32:23	07:52:05	2018.1.01868.S	MonR2_a_05_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	5
06:36:15	07:50:11	2018.1.00306.S	HC672_a_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
06:51:00	08:37:34	2018.1.01868.S	MonR2_a_05_7M	Deuteration in warm dense gas regions	Treviño-Morales	EU	7-m	5
07:50:16	09:04:28	2018.1.01044.S	cid_1057_a_06_TM1	The systematic search for a causal connection between AGN-driven outflows and star formation	Scholtz	EU	12-m	6
07:52:12	09:10:51	2018.1.01868.S	MonR2_a_05_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	5
08:37:42	10:27:17	2018.1.01868.S	MonR2_a_05_7M	Deuteration in warm dense gas regions	Treviño-Morales	EU	7-m	5
09:04:35	09:27:20	2018.1.01344.S	NGC3627_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
09:27:25	09:50:13	2018.1.01344.S	NGC3628_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
09:51:28	10:23:01	2018.1.01344.S	NGC4303_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6

10:23:57	10:45:22	2018.1.01344.S	NGC4527_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
10:28:15	11:50:00	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
10:38:28	12:02:48	2018.1.00986.S	NGC4945_a_06_TP	MAGNUM FEAR: mind the gap	Carniani	EU	Total Power	6
10:45:29	11:06:52	2018.1.01344.S	NGC4536_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
11:06:59	11:40:06	2018.1.01344.S	NGC4654_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
11:40:12	12:05:16	2018.1.01344.S	NGC4666_a_06_TM1	CON-quest: Finding the most obscured galaxy nuclei	Aalto	EU	12-m	6
20:33:17	21:00:43	2018.1.01188.S	J2102-14_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at $z>6.5$	Wang	NA	12-m	6
21:03:05	21:19:52	2018.1.00932.S	SDSS2317_a_06_TM1	Extremely UV-luminous star-forming galaxies: unveiling the very early phase of SMGs	Marques-Chaves	EU	12-m	6
21:20:53	22:34:56	2018.1.00045.S	HD_20262_a_06_TM1	Circumplanetary ring system surrounding a distant planet around a Solar-type star?	Faramaz	NA	12-m	6
21:30:41	22:28:05	2018.1.00738.S	dm2227-0_a_06_7M	An Unbiased Survey of Dust Emission in Isolated Interacting Dwarf Galaxy Pairs	Privon	NA	7-m	6
22:35:35	23:32:55	2018.1.00738.S	dm2227-0_a_06_7M	An Unbiased Survey of Dust Emission in Isolated Interacting Dwarf Galaxy Pairs	Privon	NA	7-m	6
22:43:55	23:57:57	2018.1.00045.S	HD_20262_a_06_TM1	Circumplanetary ring system surrounding a distant planet around a Solar-type star?	Faramaz	NA	12-m	6
23:33:03	01:00:50	2018.1.01114.S	46PWirta_a_06_7M	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	7-m	6
23:58:04	00:26:05	2018.1.01188.S	J0213-06_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at $z>6.5$	Wang	NA	12-m	6

## 2018-12-08

Start (UT)	End (UT)	Project Code	SchedBlock	Project Title	PI	Executive	Array	Band
00:26:10	00:59:31	2018.1.00932.S	SDSS0146_a_06_TM1	Extremely UV-luminous star-forming galaxies: unveiling the very early phase of SMGs	Marques-Chaves	EU	12-m	6
00:58:40	02:47:54	2018.1.00756.S	MC11_a_06_TP	A comprehensive survey to study the evolution of high-density cores in Taurus	Tachihara	EA	Total Power	6
00:59:38	01:25:28	2018.1.01188.S	J0411-09_a_06_TM1	A Comprehensive Study of Quasar Host Galaxy and Cosmic Reionization with a Large Statistical Quasar Sample at $z>6.5$	Wang	NA	12-m	6
01:00:58	02:28:30	2018.1.01114.S	46PWirta_a_06_7M	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	7-m	6
01:38:55	01:55:58	2018.1.01140.S	ALESS.61_a_07_TM1	[NII] and [CII] disentangle the neutral and ionised interstellar medium in submillimetre galaxies at $z\sim 4.5$	Wardlow	EU	12-m	7
01:56:05	03:07:16	2018.1.00306.S	HC672_b_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
02:43:29	04:42:35	2018.1.00815.S	46PWirta_a_08_7M	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen	Biver	EU	7-m	8
02:59:22	04:27:50	2018.1.00815.S	46PWirta_a_08_TP	The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen	Biver	EU	Total Power	8
03:07:23	04:21:10	2018.1.00306.S	HC672_b_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
04:21:17	05:35:35	2018.1.00306.S	HC672_b_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
04:27:57	05:55:51	2018.1.00815.S	46PWirta_a_08_TP	The controversy on the origin of Earth Biver Oceans: addressing the	Biver	EU	Total Power	8

04:42:43	06:28:09	2018.1.00815.S	46PWirta_a_08_7M	D/H ratio in comet 46P/Wirtanen The controversy on the origin of Earth Biver Oceans: addressing the D/H ratio in comet 46P/Wirtanen		EU	7-m	8
05:35:42	06:49:19	2018.1.00306.S	HC672_b_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
06:01:04	07:21:10	2018.1.01868.S	MonR2_a_05_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	5
06:33:08	08:17:21	2018.1.01868.S	MonR2_a_05_7M	Deuteration in warm dense gas regions	Treviño-Morales	EU	7-m	5
06:49:26	08:01:01	2018.1.00627.S	WB89-789_a_06_TM1	Searching for hot molecular cores in the extreme outer Galaxy	Shimonishi	EA	12-m	6
07:21:18	08:28:49	2018.1.01868.S	MonR2_a_04_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	4
08:01:08	08:55:07	2018.1.01246.S	NGC3256_a_07_TM1	Deriving True Star Formation Rates in Dust-Obscured Starburst Galaxies	Inami	EU	12-m	7
08:20:23	09:39:20	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
08:28:56	09:36:20	2018.1.01868.S	MonR2_a_04_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	4
08:55:14	09:58:06	2018.1.00223.S	NGC3256_a_07_TM2	Molecular Gas in Twin Galactic Outflows	Sakamoto	EA	12-m	7
09:39:28	10:58:04	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
09:42:19	11:04:51	2018.1.00272.S	NGC4038_a_03_TP	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	Total Power	3
09:58:13	10:51:19	2018.1.00932.S	SDSS1157_a_06_TM1	Extremely UV-luminous star-forming galaxies: unveiling the very early phase of SMGs	Marques-Chaves	EU	12-m	6
10:51:24	11:08:05	2018.1.00932.S	SDSS1220_a_06_TM1	Extremely UV-luminous star-forming galaxies: unveiling the very early phase of SMGs	Marques-Chaves	EU	12-m	6
11:17:09	12:35:56	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
11:18:27	12:41:45	2018.1.00272.S	NGC4038_a_03_TP	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	Total Power	3
11:25:41	12:15:56	2018.1.01236.S	NGC4945_a_07_TM2	Resolving the Super Star Clusters in the Nuclear Starburst of NGC 4945	Leroy	NA	12-m	7
12:16:55	13:16:07	2018.1.00966.S	NBv1.78_a_07_TM1	Tracing cosmic-ray ionization rates and fluxes in sub-mm galaxies out to z~6	Indriolo	NA	12-m	7
12:36:03	13:43:19	2018.1.01496.S	IRAS_162_a_07_7M	Phosphorus-bearing molecules towards a Solar-system precursor	Rivilla	EU	7-m	7
12:41:53	14:15:24	2018.1.01639.S	Oph-C-N_a_07_TP	Highly deuterated starless cores with low CO freeze out: a chemical puzzle	Punanova	EU	Total Power	7
13:25:23	13:57:01	2018.1.01634.S	IRS_63_b_07_TM2	Chemistry Associated with the Protostellar Disk with the Youngest-Known Ringed Dust Structure	Segura-Cox	EU	12-m	7
13:53:51	15:23:37	2018.1.00859.S	Mammoth_a_04_7M	Molecular gas across the CGM of Enormous Ly-alpha Nebulae	Emonts	NA	7-m	4
13:59:31	15:03:50	2018.1.01623.S	2MASS_J1_a_07_TM1	Tracing Gas Dissipation in the Transition Stage	Anderson	NA	12-m	7
14:17:53	15:45:43	2018.1.01639.S	Oph-C-N_a_06_TP	Highly deuterated starless cores with low CO freeze out: a chemical puzzle	Punanova	EU	Total Power	6
15:06:25	15:26:16	2018.1.01205.L	CB68_a_03_TM2	Fifty AU STudy of the chemistry in the disk/envelope system of Solar-like protostars (FAUST)		EA EU NA	12-m	3
15:26:23	15:46:22	2018.1.01205.L	BHB07-11_a_03_TM2	Fifty AU STudy of the chemistry in the disk/envelope system of Solar-like protostars (FAUST)		EA EU NA	12-m	3
21:54:04	23:07:11	2018.1.00162.S	ngc253_d_05_7M	ALCHEMI II: Filling the Band 5 gap	Martin	EU	7-m	5
22:12:09	23:26:13	2018.1.00045.S	HD_20262_a_06_TM1	Circumplanetary ring system surrounding a distant planet around a Solar-type star?	Faramaz	NA	12-m	6
23:07:17	00:21:19	2018.1.00162.S	ngc253_d_05_7M	ALCHEMI II: Filling the Band 5 gap	Martin	EU	7-m	5
23:26:21	00:33:28	2018.1.00337.S	DDO_221_a_06_TM1	Low Metallicity Molecular Gas In the Dwarf Galaxy WLM	Rubio	CL	12-m	6

## 2018-12-09

Start (UT)	End (UT)	Project Code	SchedBlock	Project Title	PI	Executive	Array	Band
------------	----------	--------------	------------	---------------	----	-----------	-------	------

00:21:27	01:49:24	2018.1.01114.S	46PWirta_a_06_7M	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	7-m	6
00:35:04	01:41:28	2018.1.00337.S	DDO_221_a_06_TM1	Low Metallicity Molecular Gas In the Dwarf Galaxy WLM	Rubio	CL	12-m	6
01:31:20	03:21:23	2018.1.00756.S	MC11_a_06_TP	A comprehensive survey to study the evolution of high-density cores in Taurus	Tachihara	EA	Total Power	6
02:02:01	03:29:43	2018.1.01114.S	46PWirta_a_06_7M	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	7-m	6
02:15:52	02:36:06	2018.1.01254.S	SPT0226-_b_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
02:36:15	03:50:39	2018.1.00306.S	HC672_c_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
03:21:31	05:10:36	2018.1.00756.S	MC11_a_06_TP	A comprehensive survey to study the evolution of high-density cores in Taurus	Tachihara	EA	Total Power	6
03:29:50	04:57:17	2018.1.01114.S	46PWirta_a_06_7M	The Historic Apparition of Comet 46P/Wirtanen: Unprecedented Close-Up Analysis of Coma Composition and Physics	Cordiner	NA	7-m	6
03:50:45	04:08:29	2018.1.01254.S	SPT0402-_a_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
04:21:09	04:41:57	2018.1.01254.S	SPT0555-_b_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
04:42:03	05:02:19	2018.1.01254.S	SPT0528-_a_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
05:01:14	06:27:04	2018.1.01759.S	NGC2023_a_04_7M	Understanding the spinning dust emission from NGC 2023	Vidal	CL	7-m	4
05:02:26	05:33:03	2018.1.01254.S	SPT0611-_a_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
05:14:08	06:23:14	2018.1.01868.S	MonR2_a_04_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	4
05:33:08	05:59:23	2018.1.01254.S	SPT0555-_a_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
05:59:28	06:25:40	2018.1.01254.S	SPT0553-_a_04_TM1	Completing the SPT+ALMA Redshift Survey	Reuter	NA	12-m	4
06:23:21	07:31:23	2018.1.01868.S	MonR2_a_04_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	4
06:25:47	07:32:00	2018.1.00556.S	Horsekne_a_03_TM1	Unlocking the Potential of the Most Definitive Molecular Tracer of UV-Enhancement: I-C3H+	McGuire	NA	12-m	3
06:27:11	08:00:38	2018.1.01759.S	NGC2023_a_04_7M	Understanding the spinning dust emission from NGC 2023	Vidal	CL	7-m	4
07:32:52	08:40:24	2018.1.01868.S	MonR2_a_04_TP	Deuteration in warm dense gas regions	Treviño-Morales	EU	Total Power	4
08:22:10	09:40:59	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
08:36:26	09:35:56	2018.1.01841.S	cosmos-0_a_03_TM1	CO line widths of massive, compact galaxies with anomalously small Halpha line widths at z~2	Nelson	NA	12-m	3
08:40:31	10:03:02	2018.1.00272.S	NGC4038_a_03_TP	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	Total Power	3
09:36:03	10:25:14	2018.1.01841.S	cosmos-2_a_03_TM1	CO line widths of massive, compact galaxies with anomalously small Halpha line widths at z~2	Nelson	NA	12-m	3
09:41:06	10:59:45	2018.1.01594.S	COSMOS_b_03_7M	Intensity Mapping of High Redshift Molecular Gas at 3mm	Keating	NA	7-m	3
10:03:09	11:26:10	2018.1.00272.S	NGC4038_a_03_TP	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	Total Power	3
10:25:21	10:40:41	2018.1.00870.S	SDSS_J11_a_06_TM2	A multiphase investigation of AGN feedback	Ramos Almeida	EU	12-m	6
11:27:56	12:50:49	2018.1.00272.S	NGC4038_a_03_7M	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	7-m	3
11:36:14	12:59:05	2018.1.00272.S	NGC4038_a_03_TP	Adjusting the Reception of The Antennae: A Clear Look at GMCs in a Major Merger	Wilson	NA	Total Power	3
15:36:47	16:31:16	2018.1.00250.S	IRAS_163_a_03_TM1	What type of stars are the progenitors of water fountain	Tafuya	EA	12-m	3



16:31:22	17:48:26	2018.1.00250.S	IRAS_181_a_03_TM1	What type of stars are the progenitors of water fountain nebulae?	EA	12-m	3
18:10:55	18:37:30	2018.1.01454.T	GRB_1812_d_03_TM1	Gamma-ray Burst Physics with ALMA: Laskar Direct Implications for the Explosions and Progenitors	NA	12-m	3

**2018-12-10**

Start (UT)	End (UT)	Project Code	SchedBlock	Project Title	PI	Executive	Array	Band
01:06:29	02:13:02	2018.1.00337.S	DDO_221_a_06_TM1	Low Metallicity Molecular Gas In the Dwarf Galaxy WLM	Rubio	CL	12-m	6
02:26:42	02:43:51	2018.1.01193.T	Supernov_c_03_TM1	Probing The Final Evolution of The Supernova Progenitor	Maeda	EA	12-m	3
02:43:57	03:10:41	2018.1.01193.T	Supernov_c_06_TM1	Probing The Final Evolution of The Supernova Progenitor	Maeda	EA	12-m	6
03:10:47	04:24:22	2018.1.00306.S	HC672_d_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
04:24:28	04:43:13	2018.1.01205.L	L1551_IR_a_03_TM2	Fifty AU Study of the chemistry in the disk/envelope system of Solar-like protostars (FAUST)		EA EU NA	12-m	3
04:43:20	05:56:56	2018.1.00306.S	HC672_d_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
05:57:02	07:02:39	2018.1.00548.S	G09_0913_a_03_TM1	A Dusty Starburst Galaxy Caught in a Heavy Bombardment?	Fu	NA	12-m	3
07:02:46	08:16:20	2018.1.00306.S	HC672_d_06_TM1	Characterizing X-ray driven molecular chemistry in the disk population of Orion	Cleeves	NA	12-m	6
08:16:26	09:20:06	2018.1.01359.S	COS2987_a_06_TM1	Resolving the [CII] distribution and kinematics of "normal" galaxies at the end of cosmic reionization	Aravena	CL	12-m	6
09:29:38	09:57:13	2018.1.00870.S	SDSS_J10_a_05_TM2	A multiphase investigation of AGN feedback	Ramos Almeida	EU	12-m	5
09:58:21	10:27:16	2018.1.00870.S	SDSS_J11_a_05_TM2	A multiphase investigation of AGN feedback	Ramos Almeida	EU	12-m	5
10:27:23	11:33:45	2018.1.01050.S	NGC4565_a_06_TM1	Heavily Resolving The Molecular Gas Layer in a Prototype of Edge-on Galaxies: NGC 4565	Utomo	NA	12-m	6
11:34:56	11:56:01	2018.1.00870.S	SDSS_J14_a_06_TM2	A multiphase investigation of AGN feedback	Ramos Almeida	EU	12-m	6