

## AJAX Flight Catalog

\*Flight Objectives described below table

Date	Flight Number	O3	CO2/CH4	CH2O	MMS	Analysis Docs	Flight Objectives
2018-06-06	229	✓	✓	✓	✓		CentralValley, On/Off, Vpocean, profile
2018-05-30	228	✓	✓	✓	✓		CentralValley, On/Off, Profile, VPocean
2018-05-09	227	✓	✓	✓	✓		CentralValley, On/Off, Profile, VPocean
2018-05-03	226	✓	✓	✓			CentralValley, On/Off, Profile, VPocean
2018-04-23	225	✓	✓	✓	✓		CentralValley, On/Off, Profile, VPocean
2018-04-19	224	✓	✓	✓	✓		CentralValley, On/Off, Vpocean, profile
2018-04-13	223	✓	✓		✓		Profile, RRV
2018-03-23	222	✓	✓		✓		Profile, RRV
2018-03-07	221	✓	✓	✓	✓		CentralValley, Profile
2018-02-28	220	✓	✓	✓	✓		Offshore
2018-02-15	219	✓	✓	✓	✓		Profile, THD, VPocean
2018-02-14	218	✓	✓	✓	✓		Profile, VPocean
2018-01-30	217		✓	✓	✓		CentralValley, Profile

<b>2017-12-13</b>	216		✓	✓	✓	✓ <a href="https://10.5067/doc/AJAX/Analysis/F216">10.5067/doc/AJAX/Analysis/F216</a>	Fire, VPocean
<b>2017-12-06</b>	215	✓	✓	✓	✓		Profile, RRV
<b>2017-11-30</b>	214	✓	✓		✓		CentralValley, Profile
<b>2017-11-21</b>	213	✓	✓	✓	✓		VPocean, profile
<b>2017-11-09</b>	212	✓	✓	✓	✓		
<b>2017-11-08</b>	211		✓	✓			Offshore
<b>2017-03-23</b>	210	✓	✓	✓	✓		SFBayArea
<b>2017-03-09</b>	209	✓	✓	✓	✓		SanBernardinoWestMojave
<b>2017-03-01</b>	208	✓	✓	✓	✓		SFBayArea, VPocean
<b>2017-02-23</b>	207	✓		✓	✓		SFBayArea, VPocean
<b>2017-01-31</b>	206	✓	✓		✓		CentralValley, UrbanOutflow
<b>2017-01-27</b>	205	✓	✓		✓		Profile, RRV
<b>2016-12-02</b>	204	✓		✓			Offshore
<b>2016-11-03</b>	203	✓	✓	✓	✓		Profile, SFBayArea, VPocean
<b>2016-11-02</b>	202	✓	✓	✓	✓		Profile, SFBayArea, VPocean

<b>2016-09-21</b>	201	✓	✓	✓	✓		On/Off, SFBayArea, VPocean
<b>2016-09-14</b>	200	✓	✓	✓	✓	✓ <a href="10.5067/doc/AJAX/Analysis/F200">10.5067/doc/AJAX/Analysis/F200</a>	Fire
<b>2016-08-24</b>	199	✓	✓		✓	✓ <a href="10.5067/doc/AJAX/Analysis/F199">10.5067/doc/AJAX/Analysis/F199</a>	Fire
<b>2016-08-12</b>	198	✓	✓	✓	✓	✓ <a href="10.5067/doc/AJAX/Analysis/F198">10.5067/doc/AJAX/Analysis/F198</a>	Fire
<b>2016-08-09</b>	197	✓	✓	✓	✓	✓ <a href="10.5067/doc/AJAX/Analysis/F197">10.5067/doc/AJAX/Analysis/F197</a>	Fire
<b>2016-07-28</b>	196	✓	✓	✓	✓	✓ <a href="10.5067/doc/AJAX/Analysis/F196">10.5067/doc/AJAX/Analysis/F196</a>	CABOTS, CentralValley, Fire, On/Off, VPocean
<b>2016-07-21</b>	195	✓	✓	✓	✓		CABOTS, CentralValley, On/Off, VPocean
<b>2016-07-06</b>	194	✓	✓		✓		CABOTS, CentralValley, On/Off, VPocean
<b>2016-07-01</b>	193	✓	✓	✓			Profile, RRV
<b>2016-06-21</b>	192	✓	✓	✓	✓		CABOTS, CentralValley, VPocean, on/off
<b>2016-06-15</b>	191	✓	✓	✓	✓	✓ <a href="10.5067/doc/AJAX/Analysis/F191">10.5067/doc/AJAX/Analysis/F191</a>	CABOTS, CentralValley, Fire, On/Off, VPocean
<b>2016-06-03</b>	190	✓	✓		✓		CABOTS, CentralValley, On/Off, VPocean
<b>2016-05-19</b>	189	✓	✓		✓		CABOTS, Profile, THD, VPocean
<b>2016-05-12</b>	188	✓	✓	✓			CABOTS, Profile, VPocean
<b>2016-05-04</b>	187	✓	✓	✓	✓		CABOTS, On/Off, Profile, SFBayArea, VPocean

<b>2016-04-26</b>	186	✓	✓	✓	✓		CABOTS, CentralValley, On/Off, Profile, VPocean
<b>2016-04-19</b>	185	✓	✓	✓	✓		CABOTS, CentralValley, On/Off, Profile, VPocean
<b>2016-03-30</b>	184	✓	✓	✓	✓		CABOTS, O&G, SFBayArea, centralValley
<b>2016-03-23</b>	183	✓	✓	✓	✓		O&G
<b>2016-03-17</b>	182	✓	✓	✓	✓		CentralValley, UrbanOutflow
<b>2016-03-10</b>	181	✓	✓		✓		Offshore
<b>2016-01-12</b>	180	✓	✓		✓		Profile, RRV
<b>2016-01-08</b>	179	✓	✓	✓	✓		O&G
<b>2015-12-15</b>	178	✓	✓	✓	✓		CentralValley, Profile
<b>2015-12-09</b>	176	✓	✓		✓		Offshore
<b>2015-12-04</b>	175	✓	✓		✓		O&G
<b>2015-11-17</b>	174	✓	✓		✓		CentralValley, UrbanOutflow
<b>2015-10-22</b>	173	✓	✓		✓		Offshore
<b>2015-10-07</b>	172	✓	✓		✓		Offshore
<b>2015-10-01</b>	171	✓	✓		✓		O&G, Offshore

<b>2015-09-24</b>	170	✓	✓		✓		CentralValley, UrbanOutflow
<b>2015-09-02</b>	168	✓	✓			✓ <a href="https://10.5067/doc/AJAX/Analysis/F168">10.5067/doc/AJAX/Analysis/F168</a>	CentralValley, Fire
<b>2015-08-19</b>	167	✓	✓		✓	✓ <a href="https://10.5067/doc/AJAX/Analysis/F167">10.5067/doc/AJAX/Analysis/F167</a>	CentralValley, O&G, fire
<b>2015-08-05</b>	166	✓	✓		✓	✓ <a href="https://10.5067/doc/AJAX/Analysis/F166">10.5067/doc/AJAX/Analysis/F166</a>	Fire
<b>2015-07-29</b>	165		✓		✓		CentralValley, UrbanOutflow
<b>2015-07-22</b>	164	✓	✓		✓		CentralValley, UrbanOutflow
<b>2015-07-01</b>	163	✓	✓		✓		Profile, RRV
<b>2015-06-29</b>	162	✓	✓		✓		Profile, RRV
<b>2015-06-11</b>	161	✓	✓		✓		CentralValley, UrbanOutflow
<b>2015-06-02</b>	160	✓	✓		✓		SanBernardinoWestMojave, TCCON
<b>2015-05-27</b>	159	✓	✓		✓		CentralValley, On/Off, Profile, VPocean
<b>2015-05-19</b>	158	✓	✓		✓		CentralValley, O&G, Profile
<b>2015-05-12</b>	157	✓	✓		✓		CentralValley, On/Off, Profile, VPocean
<b>2015-04-24</b>	156	✓	✓		✓		CentralValley, O&G, Profile
<b>2015-04-14</b>	155	✓	✓		✓		CentralValley, On/Off, Profile, VPocean

2015-03-31	154	✓	✓		✓		Profile, RRV
2015-03-25	153	✓	✓		✓		Offshore
2015-03-18	152	✓	✓		✓		Profile, THD, VPocean
2014-12-10	151				✓		
2014-11-25	150	✓	✓		✓		Profile, RRV
2014-11-10	149	✓	✓		✓		CentralValley, SFBayArea
2014-11-06	148	✓	✓				SanBernardinoWestMojave, TCCON
2014-10-24	147		✓				CentralValley, SFBayArea
2014-10-15	146	✓	✓				CentralValley
2014-10-08	145	✓	✓				CentralValley
2014-10-02	144	✓	✓		✓		Profile, RRV
2014-09-22	143	✓			✓		Profile, VPocean
2014-09-16	142	✓	✓		✓		CentralValley, O&G, fire
2014-09-09	141	✓	✓		✓	✓ <a href="https://10.5067/doc/AJAX/Analysis/F141">10.5067/doc/AJAX/Analysis/F141</a>	Profile, RRV, fire
2014-09-02	140	✓	✓		✓		Profile, RRV

<b>2014-08-29</b>	139	✓	✓		✓		Profile, SanBernardinoWestMojave
<b>2014-08-13</b>	138	✓	✓		✓		Fire
<b>2014-08-06</b>	137		✓		✓	<a href="https://10.5067/doc/AJAX/Analysis/F137">10.5067/doc/AJAX/Analysis/F137</a>	Fire
<b>2014-07-29</b>	136	✓	✓			<a href="https://10.5067/doc/AJAX/Analysis/F136">10.5067/doc/AJAX/Analysis/F136</a>	CentralValley, Fire, Profile
<b>2014-07-25</b>	135	✓	✓		✓		CentralValley
<b>2014-07-15</b>	134	✓	✓		✓		CentralValley
<b>2014-06-28</b>	133	✓	✓		✓		Profile, RRV
<b>2014-06-27</b>	132	✓	✓		✓		Profile, RRV
<b>2014-06-25</b>	131	✓	✓		✓		Profile, RRV
<b>2014-06-24</b>	130	✓	✓		✓		Profile, RRV
<b>2014-06-18</b>	129	✓	✓		✓		SanBernardinoWestMojave, TCCON
<b>2014-06-10</b>	128	✓	✓		✓		CentralValley, O&G, Profile
<b>2014-06-04</b>	127	✓	✓		✓		CentralValley, UrbanOutflow
<b>2014-06-03</b>	126		✓		✓		CentralValley, UrbanOutflow
<b>2014-05-28</b>	125	✓	✓		✓		SanBernardinoWestMojave

<b>2014-05-19</b>	124	✓	✓		✓		SanBernardinoWestMojave
<b>2014-05-14</b>	123	✓	✓		✓		Profile, RRV
<b>2014-05-08</b>	122	✓	✓		✓		CentralValley, On/Off, Profile, VPocean
<b>2014-05-01</b>	121	✓	✓		✓		Profile, RRV
<b>2014-04-24</b>	120	✓	✓		✓		CentralValley, O&G, On/Off, Profile, VPocean
<b>2014-04-03</b>	119	✓	✓		✓		O&G, SanBernardinoWestMojave, TCCON
<b>2014-03-18</b>	118	✓	✓		✓		Profile, RRV
<b>2014-03-13</b>	117	✓	✓		✓		Offshore, Profile, VPocean
<b>2014-03-05</b>	116	✓	✓		✓		CentralValley, Offshore
<b>2014-02-21</b>	115	✓	✓				Profile, RRV
<b>2014-02-13</b>	114	✓	✓		✓		
<b>2014-02-05</b>	113	✓	✓		✓		SanBernardinoWestMojave, TCCON
<b>2013-12-05</b>	112	✓	✓		✓		Profile, RRV
<b>2013-12-04</b>	111	✓	✓				O&G, SanBernardinoWestMojave, TCCON

2013-11-26	110	✓	✓		✓		Offshore
2013-11-18	109	✓	✓		✓		CentralValley, UrbanOutflow
2013-11-15	108	✓	✓		✓		Profile, RRV
2013-11-04	107	✓	✓		✓		O&G, SanBernardinoWestMojave, TCCON
2013-10-29	106	✓	✓		✓		CentralValley, UrbanOutflow
2013-10-24	105	✓	✓		✓		Profile, RRV
2013-09-27	104	✓	✓		✓		SanBernardinoWestMojave, TCCON
2013-09-18	103	✓	✓		✓		Profile, RRV
2013-09-12	102		✓		✓		Offshore
2013-09-10	101		✓		✓	✓ <a href="http://10.5067/doc/AJAX/Analysis/F101">10.5067/doc/AJAX/Analysis/F101</a>	CentralValley, Fire, Profile
2013-08-29	100	✓	✓		✓	✓ <a href="http://10.5067/doc/AJAX/Analysis/F100">10.5067/doc/AJAX/Analysis/F100</a>	CentralValley, Fire, Profile
2013-07-17	99	✓	✓		✓		RRV, profile
2013-06-27	98	✓			✓		Offshore
2013-06-21	97	✓	✓				RRV, profile
2013-06-20	96	✓	✓				RRV, profile

<b>2013-06-18</b>	95	✓	✓				RRV, profile
<b>2013-06-17</b>	94	✓	✓				RRV, profile
<b>2013-06-05</b>	93	✓	✓				SanBernardinoWestMojave
<b>2013-05-24</b>	92	✓	✓				SanBernardinoWestMojave
<b>2013-05-15</b>	91	✓	✓				Profile, RRV
<b>2013-05-09</b>	90	✓	✓				CentralValley, Profile
<b>2013-04-25</b>	89	✓	✓				Profile, RRV
<b>2013-04-16</b>	88	✓	✓				CentralValley, On/Off, Profile, Vpocan
<b>2013-04-12</b>	87	✓	✓				CentralValley, UrbanOutflow
<b>2013-04-09</b>	86	✓	✓				CentralValley, O&G, Profile
<b>2013-03-22</b>	85	✓	✓				SanBernardinoWestMojave
<b>2013-03-13</b>	84	✓	✓				RRV, profile
<b>2013-02-21</b>	83	✓	✓				CentralValley, O&G, Profile
<b>2013-02-13</b>	82	✓	✓				CentralValley, O&G
<b>2013-02-11</b>	81	✓	✓				RRV, profile

<b>2013-02-04</b>	80	✓	✓				DAQ, SFBayArea
<b>2013-01-31</b>	79	✓	✓				DAQ, SFBayArea
<b>2013-01-28</b>	78	✓	✓				CentralValley, DAQ
<b>2013-01-22</b>	77	✓	✓				CentralValley, DAQ
<b>2013-01-18</b>	76	✓	✓				CentralValley, DAQ
<b>2013-01-16</b>	75	✓	✓				CentralValley, DAQ
<b>2013-01-15</b>	74	✓	✓				RRV, profile
<b>2013-01-04</b>	73	✓	✓				CentralValley, On/Off, Profile, Vpoccean
<b>2012-12-19</b>	72	✓	✓				RRV, profile
<b>2012-11-26</b>	71	✓	✓				CentralValley, On/Off, Profile, Vpoccean
<b>2012-11-13</b>	70	✓	✓				RRV, profile
<b>2012-11-06</b>	69	✓	✓				CentralValley, On/Off, Profile, Vpoccean
<b>2012-10-19</b>	68	✓	✓				SFBayArea, Vpoccean
<b>2012-10-17</b>	67		✓				Profile, RRV
<b>2012-10-10</b>	66	✓	✓				CentralValley, On/Off, Profile, Vpoccean

<b>2012-10-04</b>	65	✓	✓				CentralValley
<b>2012-10-03</b>	64	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-09-27</b>	63	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-09-25</b>	62	✓	✓				Profile
<b>2012-09-21</b>	61	✓	✓				RRV, profile
<b>2012-08-16</b>	60	✓	✓				RRV, profile
<b>2012-08-09</b>	59	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-08-07</b>	58	✓	✓				RRV, profile
<b>2012-08-01</b>	57	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-07-25</b>	56	✓	✓				Profile, Vpocean
<b>2012-07-18</b>	55	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-07-17</b>	54	✓	✓				Profile, RRV
<b>2012-07-02</b>	53	✓	✓				Profile, RRV
<b>2012-07-01</b>	52	✓	✓				Profile, RRV
<b>2012-06-28</b>	51	✓	✓				Profile, RRV

<b>2012-06-26</b>	50		✓				Profile, RRV
<b>2012-06-25</b>	49	✓	✓				Profile, RRV
<b>2012-06-13</b>	48	✓	✓				Profile, RRV
<b>2012-06-05</b>	47	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-05-30</b>	46	✓	✓				CentralValley, On/Off, Profile, VPOcean
<b>2012-05-17</b>	45	✓	✓				RRV, profile
<b>2012-05-14</b>	44	✓	✓				CentralValley, On/Off, Profile, VPOcean
<b>2012-05-08</b>	43	✓	✓				THD, Vpocean, profile
<b>2012-04-27</b>	42	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-04-09</b>	41	✓	✓				RRV, profile
<b>2012-04-03</b>	40	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-03-21</b>	39	✓	✓				CentralValley, On/Off, Profile, Vpocean
<b>2012-03-20</b>	38	✓					CentralValley
<b>2012-03-20</b>	37	✓	✓				CentralValley
<b>2012-03-07</b>	36	✓	✓				CentralValley, On/Off, Profile, VPOcean

<b>2012-03-05</b>	35	✓					CentralValley, On/Off, Profile, Vpocean
<b>2012-02-06</b>	34	✓					Profile, RRV
<b>2012-01-11</b>	33	✓					CentralValley, On/Off, Profile, Vpocean
<b>2012-01-10</b>	32	✓					Profile, RRV
<b>2011-08-07</b>	31	✓	✓				CentralValley, Profile
<b>2011-08-03</b>	30	✓	✓				Profile, RRV
<b>2011-07-28</b>	29	✓	✓				CentralValley, Profile
<b>2011-07-20</b>	28	✓	✓				CentralValley
<b>2011-06-26</b>	26	✓	✓				RRV, profile
<b>2011-06-25</b>	25	✓	✓				Profile, RRV
<b>2011-06-23</b>	24		✓				RRV, profile
<b>2011-06-22</b>	23		✓				Profile, RRV
<b>2011-05-19</b>	18	✓					Profile, THD, VPOcean
<b>2011-05-11</b>	17	✓					Profile, RRV
<b>2011-04-13</b>	16	✓					Profile, THD, VPOcean

2011-04-06	15	✓					Profile, THD, VPocean
2011-03-09	13	✓					Profile, THD, VPocean
2011-03-04	12	✓					Profile, THD, VPocean
2011-02-22	11	✓					
2011-02-11	10	✓					Profile, THD, VPocean
2011-02-02	9	✓					Profile, THD, VPocean

#### Flight Objectives Definitions:

- CABOTS: in support of CARB's California Baseline Ozone Transport Study (Summer 2016)
- CentralValley: boundary layer measurements in California's Central Valley
- DAQ: focused on the boundary layer over Central California during DISCOVER-AQ field campaign (Jan-Feb 2013)
- Fire: sampling influenced by one or more fires, usually wildfires
- O&G: sampling over known oil and/or gas infrastructure
- Offshore: sampling off the California coast, does not include a vertical profile
- On/Off: at least one vertical profile over land and at least one offshore (>5 km)
- Profile: spiral vertical profile from ~8 km to surface
- RRV: vertical profile over Railroad Valley, NV (elev. ~1.4 km), usually coordinated with GOSAT overpass
- SanBernadinoWestMojave: Boundary layer measurements in the San Bernadino Mountains and/or West Mojave desert regions

- SFBayArea: boundary layer measurements in the San Francisco Bay Area
- TCCON: vertical profile over TCCON instrument at NASA's Armstrong Flight Research Center (formerly Dryden)
- THD: vertical profile near Trinidad Head observatory, usually coordinated with NOAA ozonesonde
- UrbanOutflow: boundary layer measurements around Sacramento, CA
- VPocean: vertical profile over ocean, with top altitude  $> \sim 5$  km