

Analysis of SMO Flight Traffic

Friday, April 22, 2011



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April 22, 2011

Introduction

On Friday April 22, 2011, concerned residents of neighborhoods surrounding Santa Monica Airport (SMO) conducted a test of airport flights in order to accurately assess the nature and makeup of the flights occurring. Unlike earlier tests, we did not do a detailed study of flight path compliance or noise levels on this occasion. This report is one in an on-going series of such reports conducted by residents to monitor airport operations. The previous report analyzed traffic on April 15, 2011.

By looking up the registrations for each tail number together with other data from various flight tracking web sites, we were able to determine the operators of each aircraft and thus to break the flights observed into three major categories for the purposes of analysis:

1. Flight Schools and Training Flights
2. Jet Aircraft
3. Other Prop Aircraft Traffic

A total of 58 flights were recorded during the period from 12:00 PM to 3:00 PM, an average of one flight every 3.1 minutes. On this occasion 60% of all traffic (35 flights) was flight school and training related. A single plane (N2092L) operated by Skyward Aviation accounted for 30% of all flights.

This report represents a snapshot of operations on a single day. The “Trends” section presents accumulated data from this and earlier observations to gain a more complete picture of ‘normal’ patterns. The accumulated usage percentage for all 2011 observations is Flight School 58%, Jet 9%, Other 33%.

Types of Use

For the purpose of this analysis, category 1 (Flight schools and training flights) included not only aircraft that could be directly tracked to flight school operators, but also flights that did more than one takeoff and landing within a one hour period. These flights are mostly flying round SMO's local loop in order to practice takeoffs and landings. Figure 1 below shows the breakdown of flights according to the three usage types defined above.

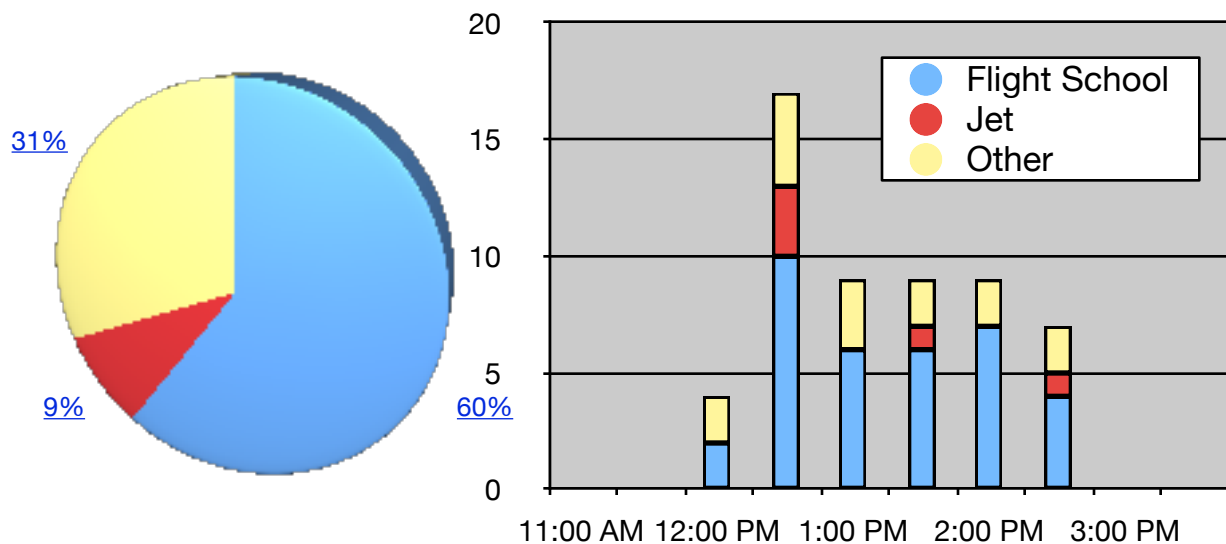


Figure 1 - Flight Breakdown by Usage Type

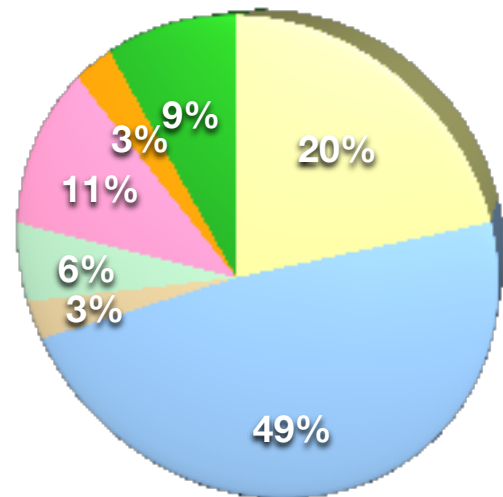
Sixty percent (60%) of the flights were flight school and training related, 31% were other prop traffic, and 9% were jet traffic. As in previous reports, we have ignored helicopter traffic. The bar chart shows the distribution of these flights between the three categories over the time period studied.

Flight School Details

As this and earlier reports have shown, approximately 1/2 to 3/4 of flight traffic and noise tends to be caused by flight school operations. These percentages warrant additional analysis to compare and contrast the 'sociability' of the various flight schools operating out of SMO.

School/Loop Traffic	Color	Flights
Justice Aviation		7
Skyward Aviation		17
Proteus Air Services		1
Santa Monica Flyers		2
American Flyers		4
Seaside Aviation	Do not provide aircraft. Instructi	
Santa Monica Aviation		0
Air-Spacers Flying Club		1
Local loop traffic		3

Percentage of Flights



Note that one flight school aircraft alone accounted for 30% of all observed SMO traffic on this date:

N2092L - 17 flights (Skyward Aviation)

Trends

By combining the results from this and earlier studies, we can obtain a better picture of typical patterns of use over the week.

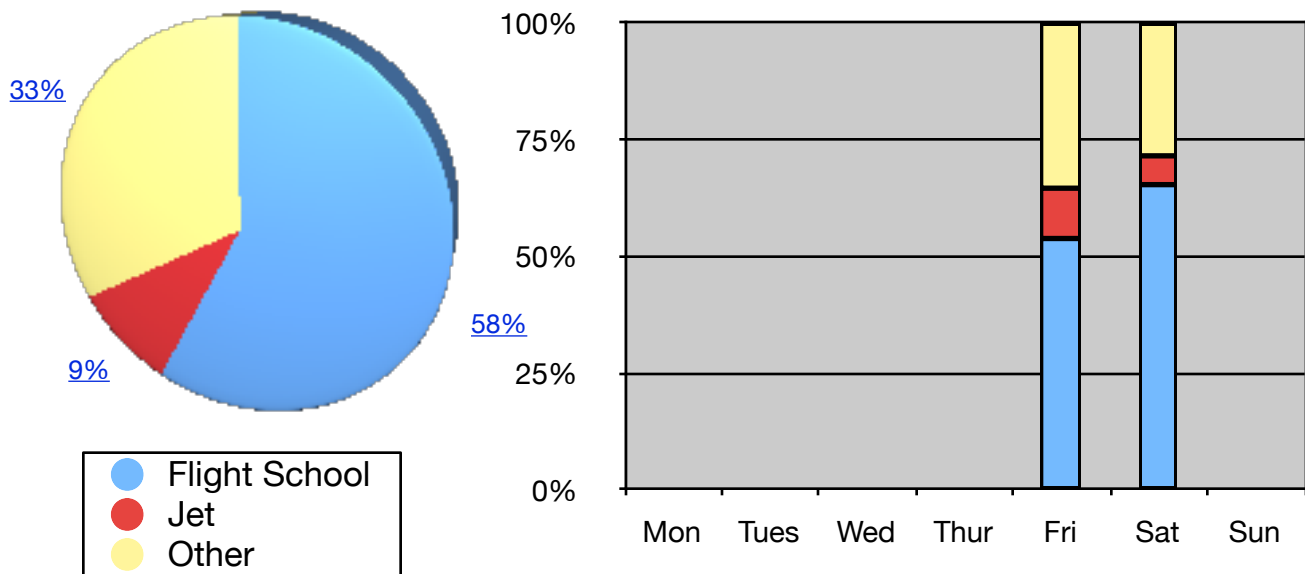


Figure 2 - Percentage of SMO Traffic by Type

The pie chart in Figure 2 above shows the accumulated percentage of all flights observed during 2011 regardless of day. It currently shows that on average 58% of all observed SMO flights are flight school related, 9% are jet traffic and the remainder is other prop traffic. This data represents a total of 248 observed flights during a combined observation time of 13 hours. The bar chart to the right shows the accumulated percentage breakdown by day of the week (for the days that we have data).

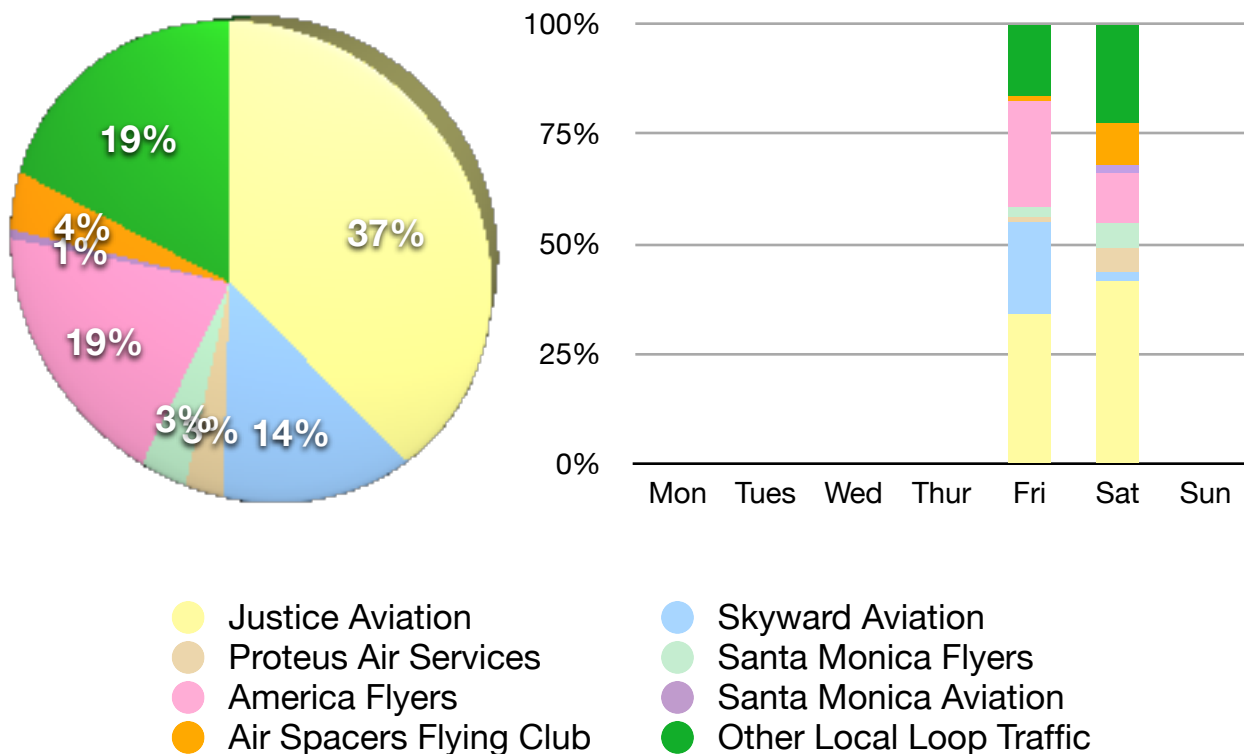


Figure 3 - Percentage of Flight School Traffic

The pie chart in Figure 3 above shows the accumulated percentage of all flight-school flights observed during 2011 regardless of day. It currently shows that Justice Aviation is the largest flight school by traffic operations (37%) followed by American Flyers (19%) and then Skyward Aviation (14%). Other local loop traffic (for which the flight school could not be positively determined) accounts for 19% of the flight & training activity. The bar chart to the right shows the accumulated percentage breakdown by day of the week (for the days that we have data).

Day of Week	Total Flights	Observed Hours
Monday		
Tuesday		
Wednesday		
Thursday		
Friday	167	8
Saturday	81	5
Sunday		

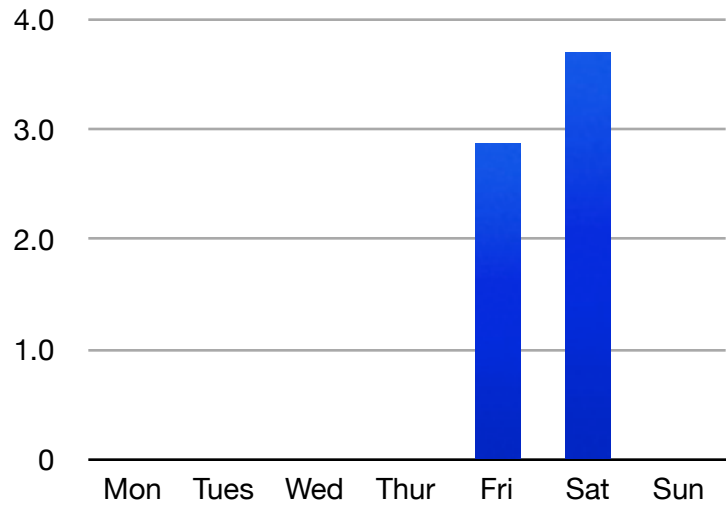


Figure 4 - Flight Departure Rate

The graph in Figure 4 above shows the accumulated average SMO flight departure rate (in minutes) for the various days of the week (for which we have data).

Full Result Spreadsheet

Time	Aircraft Type (Prop, Turbo Prop or Jet - P, TP or J)	Tail Number (Observed at airport)	Registered to/Operated By: (FAA Website)	Flight Path According to WebTrak / Notes - T&G NS (Touch & Go Non-stop)	Observed Flight Path
12:13	P (2004 Cirrus SR22) Single Engine	N5419W	Registered to Kenosha LLC, 14511 Sunset Blvd, Pacific Palisades CA 90272 (Corp)	SMO > CMA (Camarillo). To shoreline	1
12:19	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	South Loop	3
12:26	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS (initial flight path not visible on WebTrak)	1
12:27	P	N58013	Registered to John Schmidt, 5859 Pecanetta Rd, Wadmalaw Island SC 29487	SC6 > OAK (Oakland). To shoreline then north	2
12:31	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS. South loop	1
12:34	J (2001 Cessna 560XL) Multi Engine	N632BL	Registered to Pacific Simon LLC, 2711 Centerville Rd, Ste 400, Wilmington DE 19808 (Corp)	SMO > OAK. To shoreline then north	3
12:38	P (1959 Cessna 172A) Single Engine	N7209T	Registered to Lawrence Bouchez, 1813 9th St, Manhattan Beach CA 90266 (Individual)	SMO > HHR (Hawthorn). To shoreline then 270 turn to head SE	1
12:40	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS (not visible on WebTrak until 1,385 ft)	1
12:41	P (1980 Cessna 172RG) Single Engine	N4668V	Registered to Ameriflyers of Texas Inc, 16151 Addison Rd, Addison TX 75001 (Corp)	SMO > BUR (Burbank). To shoreline then north	1

12:42	P (1984 Cessna 172P) Single Engine	N96575	Registered to Nacelle Aviation Inc, 2629 Foothill Blvd #537, La Crescenta CA 91214-3511 (Corp). Operated by Justice Aviation	SMO > WHP (Whiteman) Over golf course then east. (Tail number on WebTrak is listed as TW9AT)	1
12:44	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS. South Loop	3
12:46	TP (Beech C90) Multi Engine	N9872C	Registered to Peregrine Holdings LLC, 15881 N 80th St, Ste 100, Scottsdale AZ 85260 (Corp)	SMO > SDL (Scottsdale) To shoreline	3
12:47	P (2010 8KCAB) Single Engine	N519MK	Registered to Michelle Kole, 25550 Hawthorne Blvd, Ste 316, Torrance CA 90505 (Individual)	Shoreline then north	3
12:48	P (2008 Cirrus SR22) Single Engine	N811JT	Registered to Doris Alexander, 9960 Beverly Grove Dr, Beverly Hills CA 90210 (Individual)	SMO > SNA (John Wayne Airport)	5
12:49	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS. South loop	1
12:52	P (2007 Cirrus SR22) Single Engine	N807EB	Registered to Airshares Elite West LLC, 155 Passaic Ave, Fl 3, Fairfield NJ 07004 (Co-owned)	South Loop	6E
12:53	J (EMB-505) Multi Engine	N307FL	Registered to Emrose Capital LLC, c/o Flight Options LLC, 26180 Curtiss Wright Pkwy, Cleveland OH 44143 (Co-owned)	SMO > STS (Sonoma). To shoreline then north	3
12:55	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS South Loop	1
12:56	P (2001 Cessna 172S) Single Engine	N830SP	Registered to Kylan Aviation Inc, 13218 Fiji Way, Unit A, Marina Del Rey CA 90292 (Corp) Operated by Justice Aviation	Shoreline then north	3

12:57	P (2007 Cirrus SR22) Single Engine	N807EB	Registered to Airshares Elite West LLC, 155 Passaic Ave, Fl 3, Fairfield NJ 07004 (Co-owned)	T&G NS . South loop	1
12:57	J (2004 Cessna 560XL) Multi Engine	N609QS	Registered to Netjets Sales Inc, 100 N. Broadway Ave, Ste 1500, Oklahoma City OK 73102 (Co-owned)	SMO > LAS (Las Vegas). To shoreline	3
13:00	TP (1981 Beech 95-B55 (T42A) Multi Engine	N382OM	Registered to Howard Israel, 1821 34th Street, Santa Monica CA 90404 (Individual)	Shoreline then north	3
13:01	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS . South loop	1
13:02	P (2007 Cirrus SR22) Single Engine	N807EB	Registered to Airshares Elite West LLC, 155 Passaic Ave, Fl 3, Fairfield NJ 07004 (Co-owned)	T&G NS. Shoreline then north	1
13:07	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS (Flight path missing below 1,000 ft. South Loop)	1
13:11	P (1975 Cessna 172M) Single Engine	N9596H	Registered to John Edell, 20 15th St, Cayucos CA 93430 (Individual)	SC6 > SBP (San Luis Obispo). To shoreline	1
13:12	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS. South Loop	1
13:14	P (1973 Cessna 172M) Single Engine	N5155Q	Registered to Planeminder LLC, 1627 Crescent Pl, Venice CA 90291-3820 (Corp). Operated by Justice Aviation,	SMO > TOA (Torrance) To shoreline than 270 turn to head SE	1
13:18	H				3
13:23	P (1976 Piper PA-28-151) Single Engine	N8567C	Registered to James Conerly, 1221 S Sierra Bonita Ave, Los Angeles CA 90019 (Co-Owned). Operated by Justice Aviation	To shoreline then north	1
13:28	P (1957 Beech H35) Single Engine	N4692D	Registered to Rainbow Aero Inc, 9504 Regal Ridge Dr. NE, Albuquerque NM 87111 (Corp)	SMO > SBA (Santa Barbara) To shoreline then north	3

13:35	J (2004 Cessna 560XL) Multi Engine	N615QS	Registered to CIT Group/ Equipment Financing Inc, c/o Netjets Sales Inc, 100 N. Broadway Ave, Ste 1500, Oklahoma City OK 73102 (Co-Owned)	SMO > SDL (Scottsdale) To shoreline	3
13:37	P (1974 Piper PA-28-151) Single Engine	N777VP	Registered to Flightwing Equipment Corp, 335 N. Oakhurst Dr 3, Beverly Hills CA 90210 (Corp). Operated by Proteus Air Services)	To shoreline then north	1
13:41	P	Letters too small	Not known	To shoreline then north loop over beacon	3
13:46	P (1976 Cessna 172N) Single Engine	N172EP	Registered to Nashville Air Inc, 404 James Robertson Pkwy, Ste 1712, Nashville TN 37219. Operated by Justice Aviation	On WebTrak Tail number shows as N661DS. To shoreline then north	4A
13:48	P (2001 Cessna 172R) Single Engine	N106AF	Registered to Ameriflyers of California Inc, 16151 Addison Rd, Addison TX 75001 (Corp)	On WebTrak Tail number shows as N661DS. To shoreline then north	4A
13:51	P (1999 Cessna 172R) Single Engine	N2447B	Registered to Justice Aviation Inc., 3011 Airport Ave, Santa Monica CA 90405-6110 (Corp)	SMO > SMO (On WebTrak this flight shows as a helicopter) To shoreline then north	1
13:54	P (1984 Cessna 172P) Single Engine	N96575	Registered to Nacelle Aviation Inc, 2629 Foothill Blvd #537, La Crescenta CA 91214-3511 (Corp). Operated by Justice Aviation	To shoreline then north	1
13:55	P	Letters too small	Not known	To shoreline then north	1
13:58	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	South Loop	1
14:03	P (1978 Gulfstream AA-5B) Single Engine	N41D	Registered to Zachary Bryson, 3942 Yellowtail Dr., Rossmore CA 90720 (Individual)	SMO > FUL (Fullerton) To shoreline then 270 turn to head SE	1

14:05	P (Sportcruiser - single-engine)	N1111X	Registered to Santa Monica Flyers Inc., 3159 Donald Douglas Loop S#305, Santa Monica CA 90405 (Corp).	South Loop (early turn)	1
14:07	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS (To shoreline then south loop)	1
14:09	P (2006 Cirrus SR22) Single Engine	N234HK	Registered to Mojomar LLC, 2223 S. Carmelina Ave, Los Angeles CA 90064 (Corp)	To shoreline then north	3
14:16	P (1976 Cessna 172M) Single Engine	N73262	Registered to Air Spacers Inc, 3025 Airport Ave Ste 11, Santa Monica CA 90405 (Corp)	South Loop	2
14:22	P (1980 Cessna 172RG) Single Engine	N4688V	Registered to Ameriflyers of Texas Inc, 16151 Addison Rd, Addison TX 75001 (Corp)	To shoreline then north	1
14:23	P (Sportcruiser - single-engine)	N1111X	Registered to Santa Monica Flyers Inc., 3159 Donald Douglas Loop S#305, Santa Monica CA 90405 (Corp).	To shoreline then north	3
14:24	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	South Loop	1
14:29	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS. South Loop	1
14:34	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS. South loop	1
14:35	J (Bombardier BD-100-1A10) Multi Engine	N448AS	Registered to Wells Fargo Bank, 12th Fl, Mac U1228-120, 229 S. Main St, Salt Lake City UT 84111 (Corp)	SMO > TRM (Palm Springs).To shoreline	5
14:38	P (2008 Cirrus SR20) Single Engine	N427GE	Registered to East Pole Aviation LLC, PO Box 181, East Setauket NY 11733) Corporation	SMO > CRQ (McClellan-Palomar - Carlsbad) To shoreline then north loop over beacon	1

14:39	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS. South Loop	1
14:39	H				3
14:41	TP (1980 Rockwell 695) Multi-Engine	N126M	Registered to Wells Fargo Bank, 12th Fl, Mac U1228-120, 229 S. Main St, Salt Lake City UT 84111 (Corp)	SMO > BZN (Gallatin Field, MT) To shoreline	3
14:43	P (1997 Cessna 172R) Single Engine	N9448Z	Registered to Ameriflyers of Illinois Inc, 16151 Addison Rd, Addison TX 75001 (Corp)	To shoreline then north loop over beacon	1
14:44	P (2007 Cessna 172S) Single Engine	N406JA	Registered to Corrpac LLC, 251 Candy Ln, Redlands CA 92373 (Corp)	North turn at Lincoln	3
14:46	P (PA-28-161) Single Engine	N2092L	Registered to Skyward Aviation Inc., 3147 Donald Douglas Loop S, Santa Monica CA 90405-3210 (Corp)	T&G NS. South loop	1
14:48	P	Letters too small	Not known	Not visible on WebTrak	1
14:50	P (1960 Beech 35-A33) Single Engine	N1111Z	Registered to Donald Rood, 4549 Del Mar Ave, San Diego CA 92107 (Co-owned)	SMO > MYF (Montgomery - San Diego) . To shoreline then north loop over beacon	3