

# HIPPO 1-5: Summary of Flights

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<b>Airport Location</b>	<b>ICAO</b>	<b>Altitude (ft AMSL*)</b>	<b>Latitude Degrees</b>	<b>Longitude Degrees</b>	<b>HIPPO Phase</b>	<b>UT Time</b>
Anchorage, AK	PANC	152	61.17 N	150.00 W	1,2,3,4,5	UTC-9 (DST-8)
Barrow, AK	PABR	52	71.29 N	156.77 W	2,4,5	UTC-9 (DST-8)
Billings, MT	KBIL	3,652	45.81 N	108.54 W	1	UTC-7 (DST-6)
Broomfield (JeffCo), CO	KBJC	5,673	39.91 N	105.12 W	1,2,3,4,5	UTC-7 (DST-6)
Campbell River, BC, Canada	CYBL	346	49.95 N	125.27 W	1	UTC-8 (DST-7)
Christchurch, New Zealand	NZCH	37	43.49 S	172.53 E	1,2,3,4,5	UTC+12 (DST+13)
Cold Bay, AK	PACD	102	55.21 N	162.73 W	1,2,3,4,5	UTC-9 (DST-8)
Darwin, Australia	YPDN	103	12.41 S	130.88 E	4	UTC+9:30
Deadhorse, AK	PASC	65	70.19 N	148.47 W	1,2,3,5	UTC-9 (DST-8)
Easter Island	SCIP	227	27.16 S	109.42 W	1	UTC-6 (DST-5)
Edmonton, Canada	CYEG	2,373	54.31 N	113.58 W	1	UTC-7 (DST-6)
Fairbanks, AK	PAFA	439	64.82 N	147.86 W	1,2,3,4,5	UTC-9 (DST-8)
Hobart, Australia	YMHB	13	42.84 S	147.51 E	4	UTC+10
Honiara, Solomon Island	AGGH	28	9.43 S	160.05 E	2	UTC+11
Honolulu, HI	PHNL	13	21.32 N	157.92 W	1	UTC-10
Kona, HI	PHKO	47	19.74 N	156.05 W	2,3,4,5	UTC-10
Lauder Observatory, NZ	-	1,214	45.04 S	169.68 E	1,2,3,5	UTC+12 (DST+13)
Midway Atoll	PMDY	18	28.20 N	177.38 W	4	UTC-11
Pago Pago, American Samoa	NSTU	32	14.33 S	170.71 W	1,3	UTC-11
Papeete, Tahiti	NTAA	7	17.56 S	149.61 W	1	UTC-10
Rarotonga, Cook Island	NCRG	19	21.20 S	159.81 W	2,4,5	UTC-10 (DST-9:30)
Saipan	PGSN	211	15.12 N	145.73 E	4	UTC+10
San Jose, Costa Rica	MROC	3,021	9.99 N	84.21 W	1	UTC-6
Watson Lake, Canada	CYQH	2,225	60.11 N	128.82 W	1,2,3,4,5	UTC-8 (DST-7)
WLEF Tower, WI	-	1,549	45.95 N	90.27 W	1,2,5	UTC-6 (DST-5)
Wollongong, Australia	YWOL	31	34.56 S	150.79 E	2	UTC+10 (DST+11)
Yellowknife, NwT, Canada	CYZF	675	62.46 N	114.44 W	1	UTC-7 (DST-6)

\* "ft AMSL" = feet above mean sea level

## Number of dips and flight duration

<b>Flight</b>	<b>HIPPO-1</b>	<b>HIPPO-2</b>	<b>HIPPO-3</b>	<b>HIPPO-4</b>	<b>HIPPO-5</b>
TF01	0 (1.8 hrs)	1 (2.5 hrs)	1 (2.4 hrs)	1 (1.9 hrs)	-
TF02	1 (4.6 hrs)	1 (4.4 hrs)	1 (3.6 hrs)	5 (6.1 hrs)	-
TF03	0 (1.5 hrs)	-	-	-	-
RF01	0 (1.1 hrs)	2 (6.3 hrs)	2 (6.0 hrs)	2 (5.8 hrs)	4 (5.1 hrs)
RF02	7 (7.7 hrs)	5 (7.3 hrs)	5 (8.2 hrs)	8 (8.9 hrs)	6 (6.8 hrs)
RF03	4 (6.9 hrs)	8 (7.8 hrs)	8 (8.4 hrs)	8 (8.6 hrs)	2 (6.1 hrs)
RF04	8 (8.4 hrs)	8 (8.2 hrs)	5 (6.3 hrs)	7 (8.3 hrs)	0 (4.2 hrs)
RF05	7 (6.8 hrs)	7 (7.0 hrs)	5 (5.9 hrs)	6 (6.8 hrs)	9 (8.6 hrs)
RF06	5 (6.0 hrs)	6 (7.7 hrs)	6 (7.8 hrs)	4 (7.3 hrs)	8 (7.8 hrs)
RF07	8 (8.6 hrs)	6 (7.9 hrs)	5 (5.7 hrs)	5 (6.8 hrs)	8 (8.4 hrs)
RF08	7 (7.2 hrs)	6 (8.6 hrs)	5 (6.2 hrs)	3 (6.0 hrs)	7 (7.2 hrs)
RF09	5 (6.6 hrs)	7 (7.7 hrs)	8 (8.3 hrs)	6 (6.4 hrs)	6 (8.9 hrs)
RF10	7 (7.9 hrs)	5 (7.4 hrs)	5 (7.8 hrs)	5 (6.2 hrs)	6 (6.1 hrs)
RF11	2 (6.1 hrs)	1 (4.8 hrs)	1 (5.0 hrs)	10 (8.3 hrs)	9 (8.6 hrs)
RF12	-	-	-	3 (6.5 hrs)	8 (8.1 hrs)
RF13	-	-	-	-	6 (8.5 hrs)
RF14	-	-	-	-	1 (4.8 hrs)

<b>HOURS PER PHASE:</b>	<b>81.1</b>	<b>87.6</b>	<b>81.6</b>	<b>93.9</b>	<b>99.2</b>
<b>TOTAL HOURS:</b>	<b>443.4</b>				

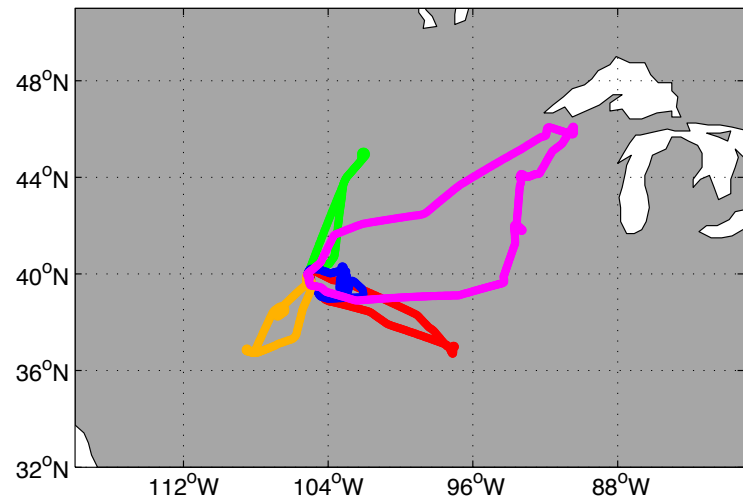
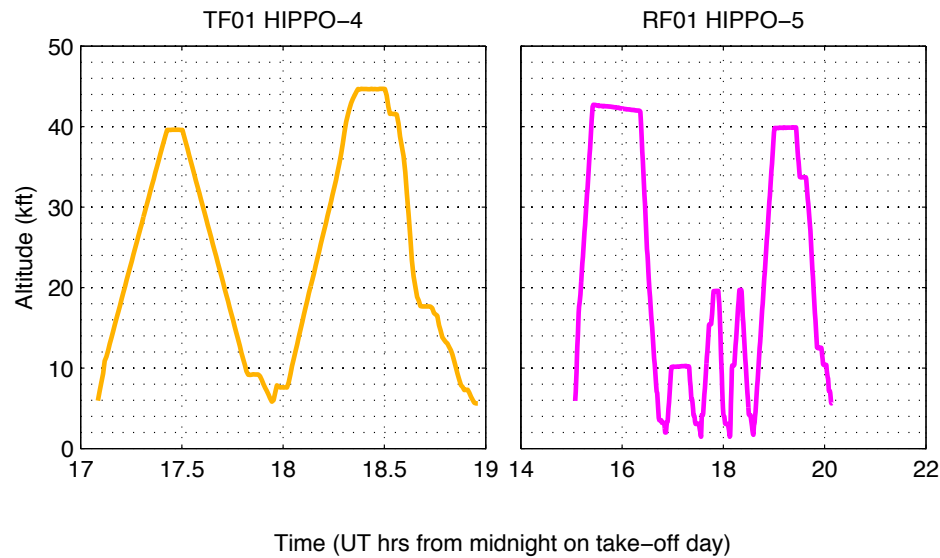
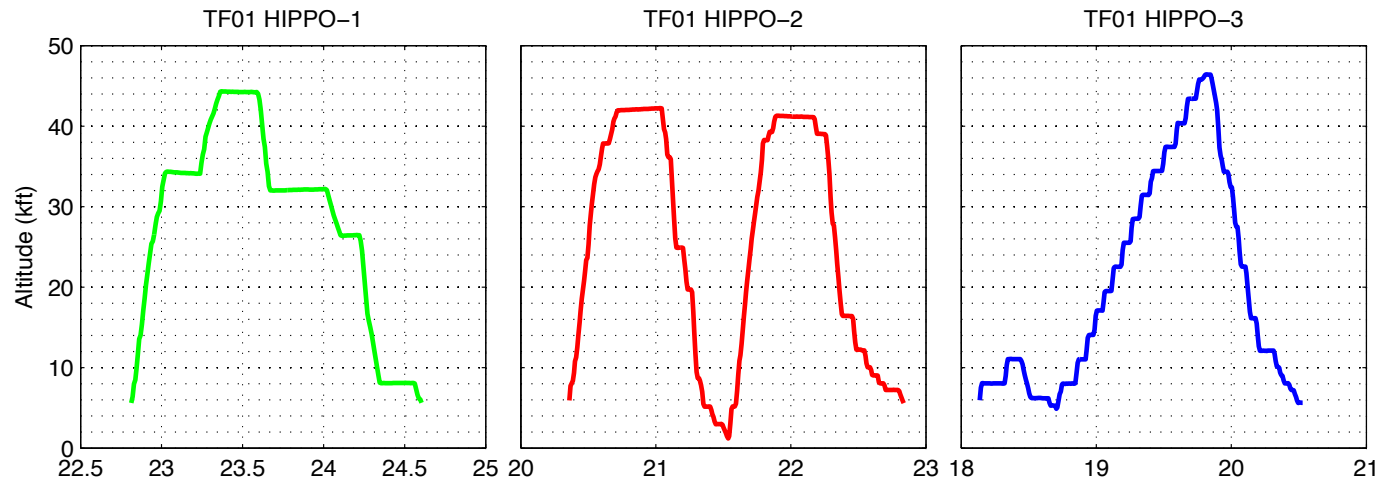
<b>DIPS PER PHASE:</b>	<b>61</b>	<b>63</b>	<b>57</b>	<b>73</b>	<b>80</b>
<b>TOTAL DIPS:</b>	<b>334</b>				

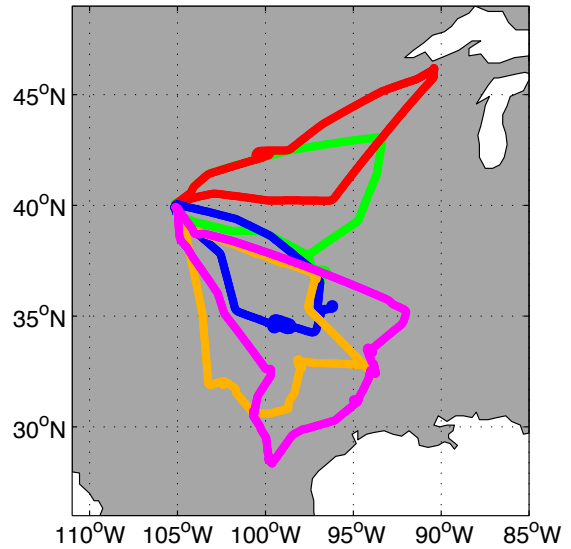
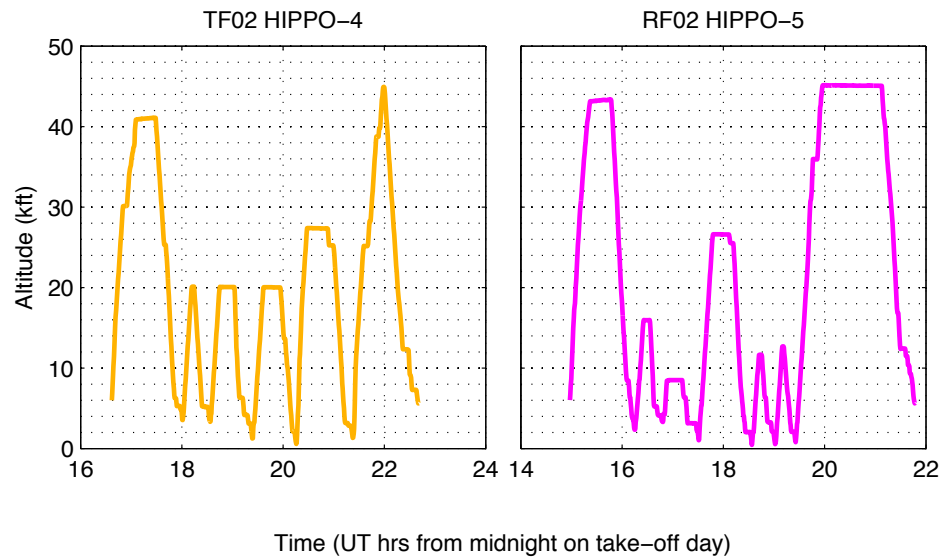
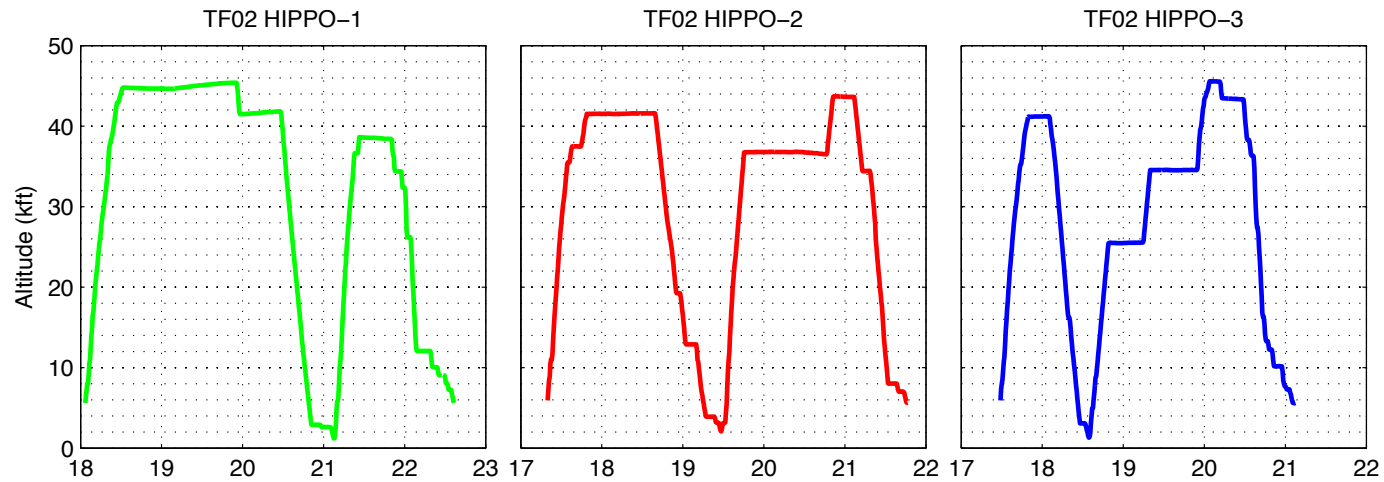
<b>DATES (yyymmdd)</b>	<b>HIPPO-1</b>	<b>HIPPO-2</b>	<b>HIPPO-3</b>	<b>HIPPO-4</b>	<b>HIPPO-5</b>
TF01	081213	091020	100316	110607	-
TF02	081217	091022	100318	110609	-
TF03	090106	-	-	-	-
RF01	090108	091031	100324	110614	110809
RF02	090109	091102	100326	110616	110811
RF03	090112	091104	100329	110618	110816
RF04	090114	091107	100331	110622	110818
RF05	090116	091109	100402	110625	110819
RF06	090118	091111	100405	110628	110822
RF07	090120	091114	100408	110701	110824
RF08	090123	091116	100410	110704	110827
RF09	090126	091119	100413	110706	110829
RF10	090128	091121	100415	110707	110901
RF11	090130	091122	100416	110710	110903
RF12	-	-	-	110711	110906
RF13	-	-	-	-	110908
RF14	-	-	-	-	110909

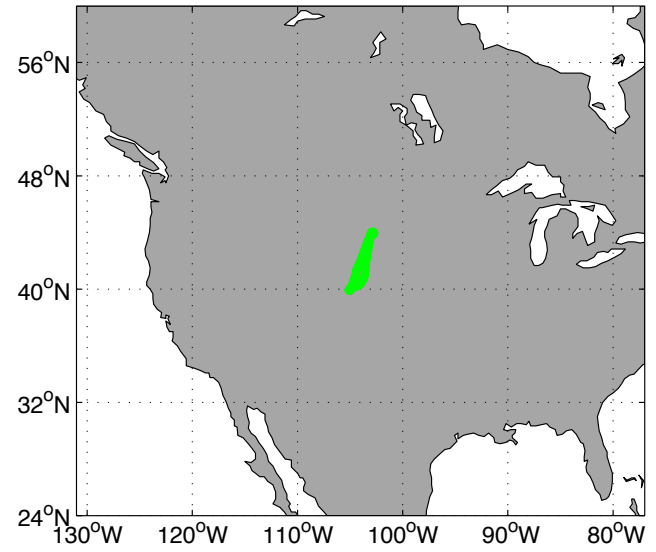
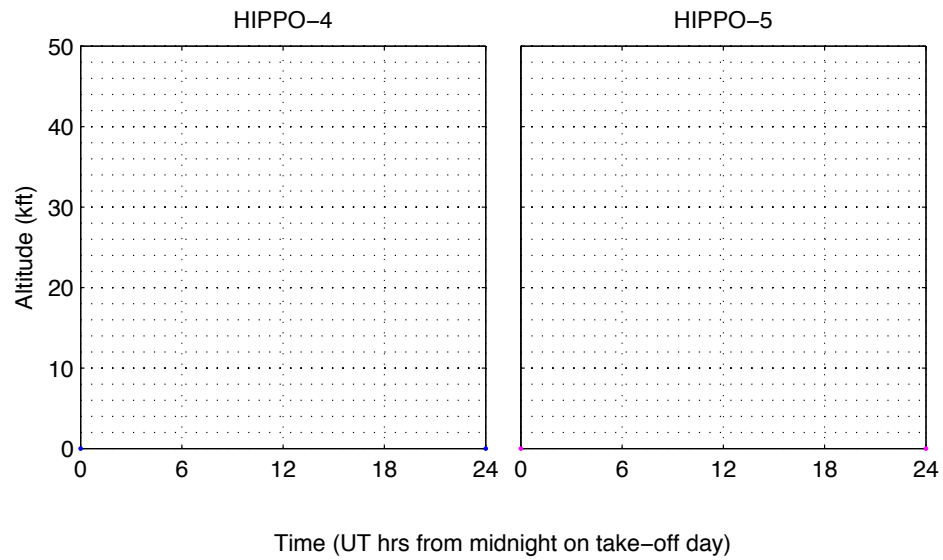
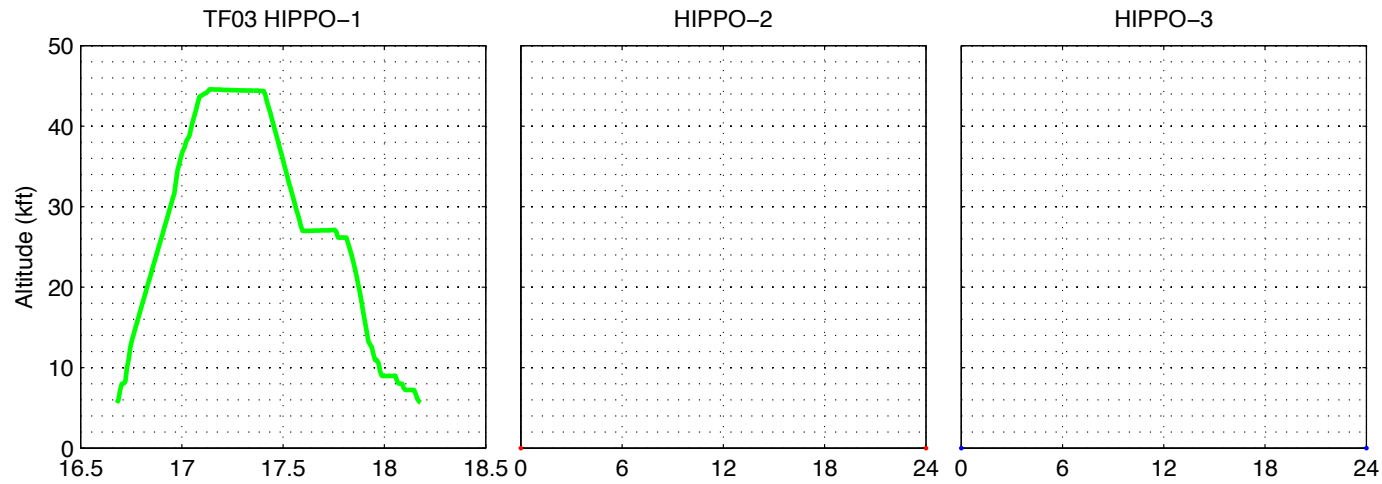
<b>LOCATIONS</b>	<b>HIPPO-1</b>	<b>HIPPO-2</b>	<b>HIPPO-3</b>	<b>HIPPO-4</b>	<b>HIPPO-5</b>
TF01	CO<>SD	CO<>OK	around CO	CO<>4 corners	(see RF01)
TF02	CO<>IO,OK	CO<>WLEF	CO<>OK	CO<>TX,LA,OK	(see RF02)
TF03	CO<>SD	-	-	-	-
RF01	CO->MT	CO->AK	CO->AK	CO->AK	CO<>WLEF
RF02	MT->AK	AK<>NP	AK<>NP	AK<>NP	CO<>TX,LA,AR,OK
RF03	AK<>NP	AK->HI	AK->HI	AK->HI	CO->AK
RF04	AK->HI	HI->CI	HI->AS	HI->CI	AK<>NP
RF05	HI->AS	CI->NZ	AS->NZ	CI->NZ	AK<>NP (redo)
RF06	AS->NZ	NZ<>SP	NZ<>SP	NZ->SP->HO	AK->HI
RF07	NZ<>SP	NZ->SI	NZ->AS	HO->DA	HI->CI
RF08	NZ->TA	SI->HI	AS->HI	DA>SA	CI->NZ
RF09	TA->EI	HI->AK	HI->AK	SA->MI	NZ<>SP
RF10	EI->CR	AK<>NP	AK<>NP	MI<>AK	NZ->CI
RF11	CR->CO	AK->CO	AK->CO	AK<>NP	CI->HI
RF12	-	-	-	AK->CO	HI->AK
RF13	-	-	-	-	AK<>NP
RF14	-	-	-	-	AK->CO

AK:Anchorage, Alaska; AS:American Samoa; CI:Rarotonga, Cook Isld; CO:JeffCo, Colorado; CR:San Jose, Costa Rica; DA:Darwin, Australia; EI:Easter Isld; HO:Hobart, Australia; HI:Hawaii (H1=Honolulu, H2-H5=Kona); MI:Midway Atoll; MT:Billings, Montana; NP:North Pole; NZ:Christchurch, New Zealand; SA:Saipan; SI:Honiara, Solomon Isld; SP:South Pole; TA:Tahiti; WLEF: Wisconsin; AR: Arkansas; IO: Iowa; LA: Louisiana; OK: Oklahoma; SD: South Dakota; TX: Texas

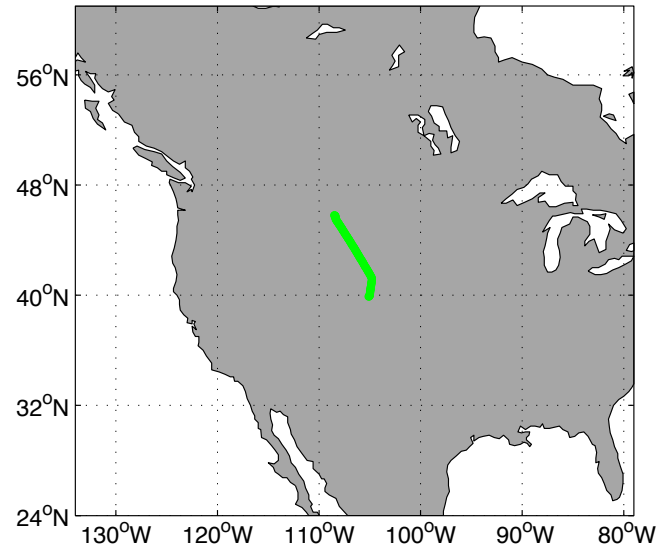
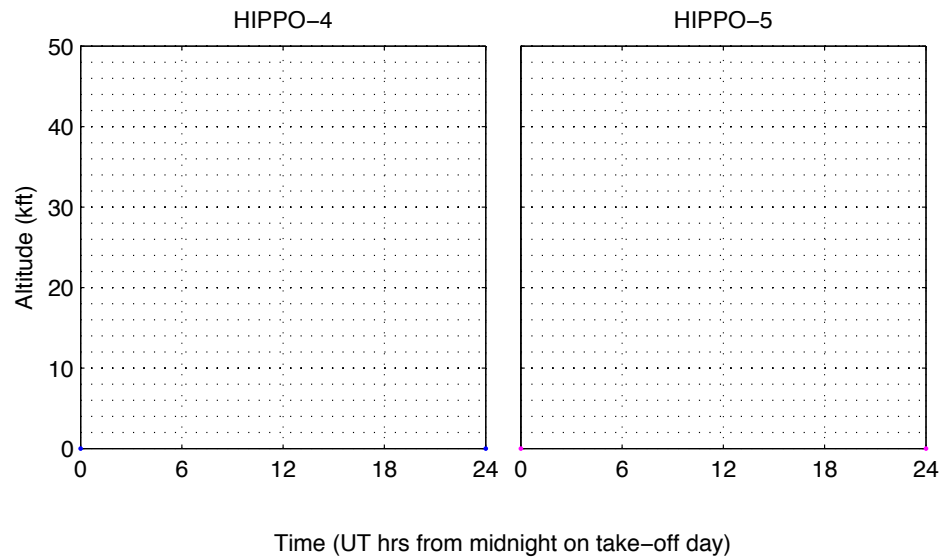
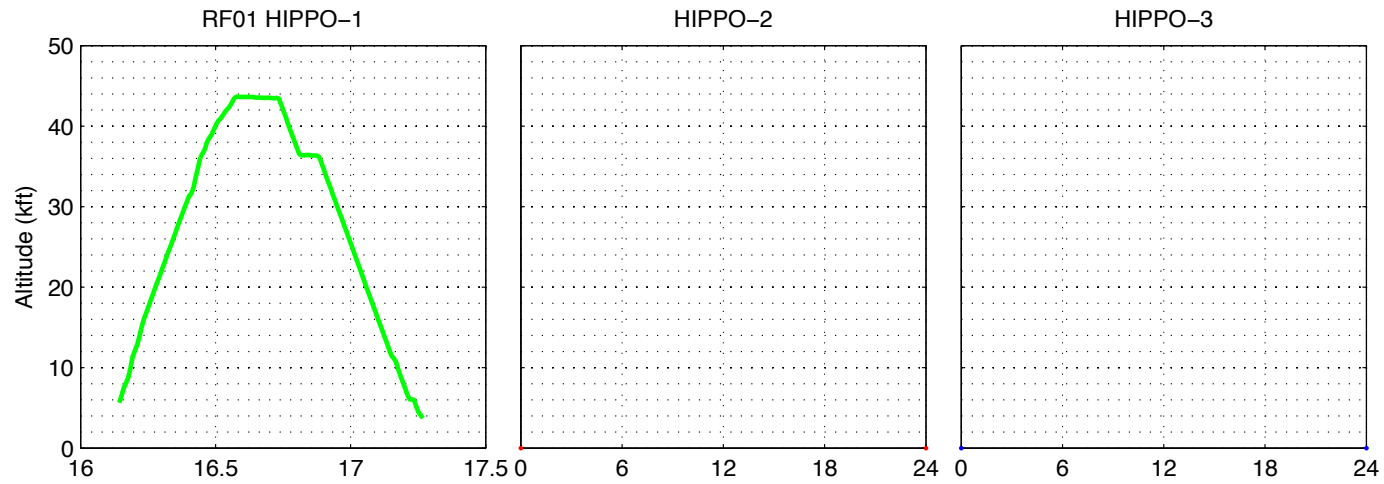
Flights are grouped by similarity in their flight trajectory

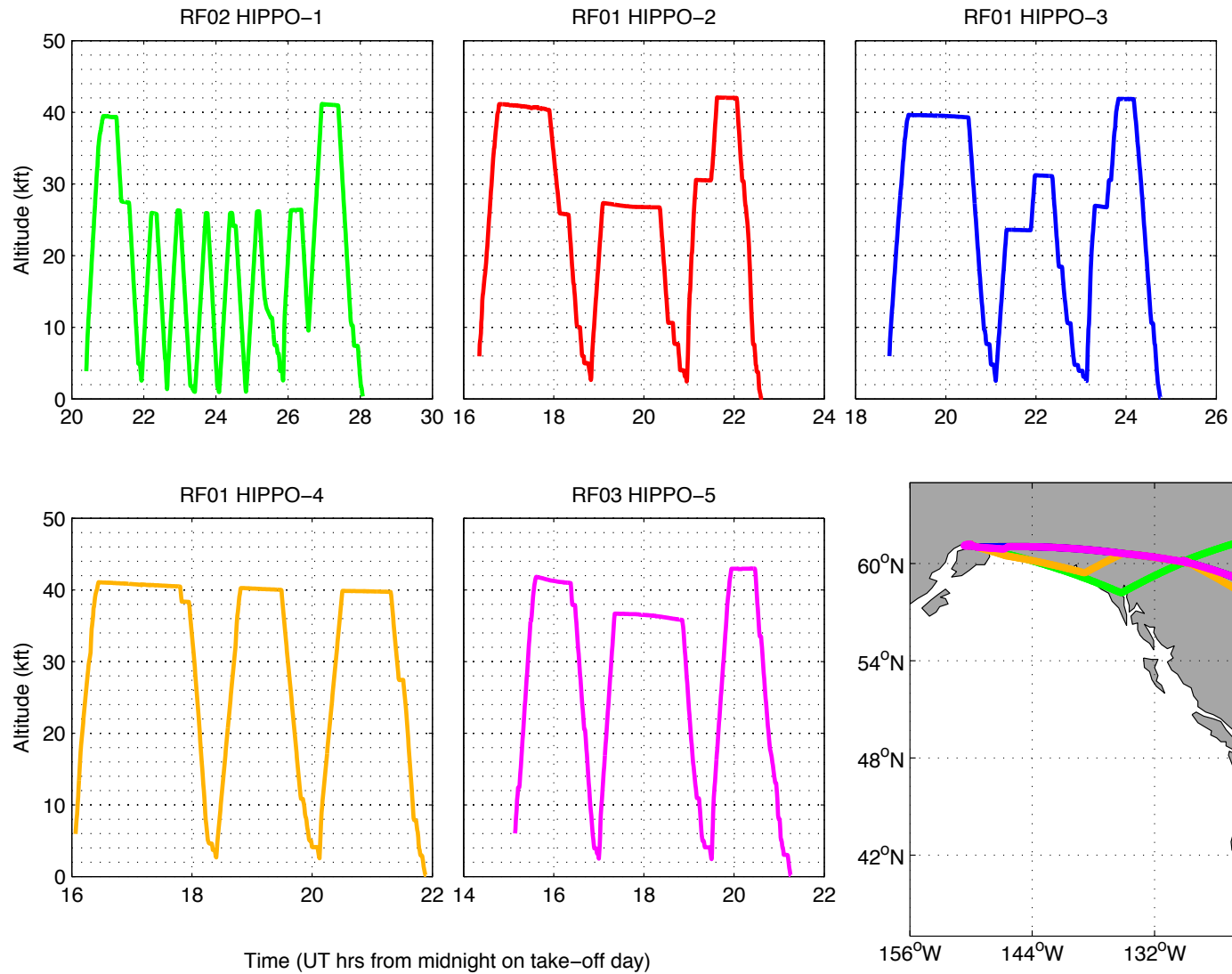


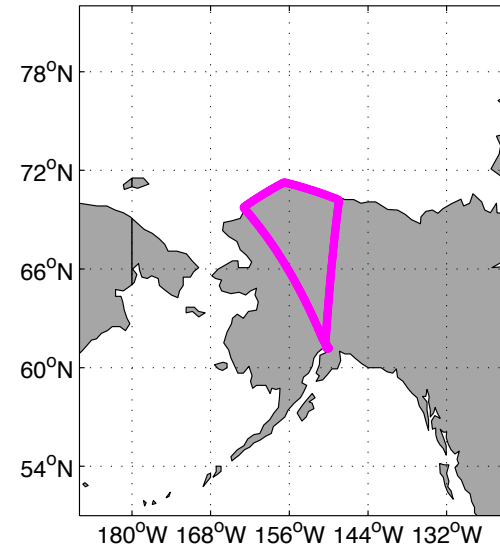
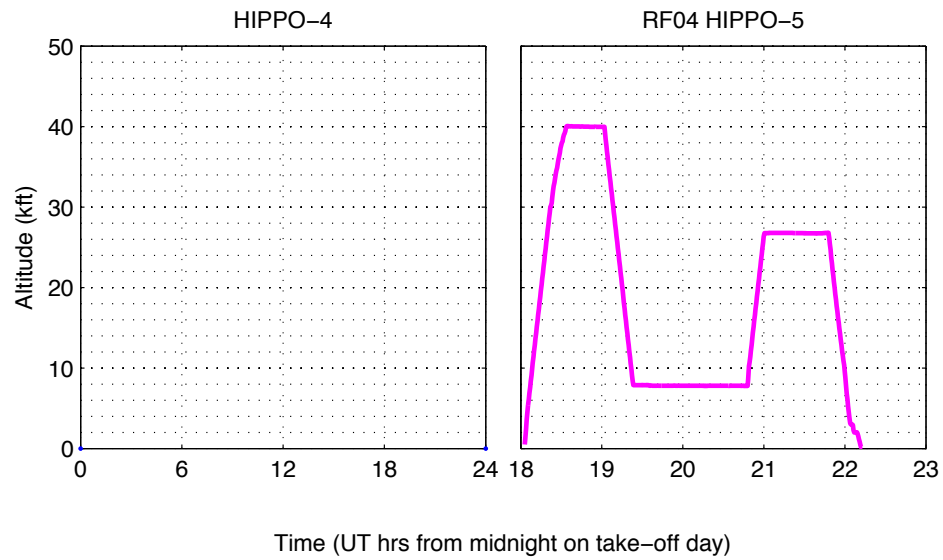
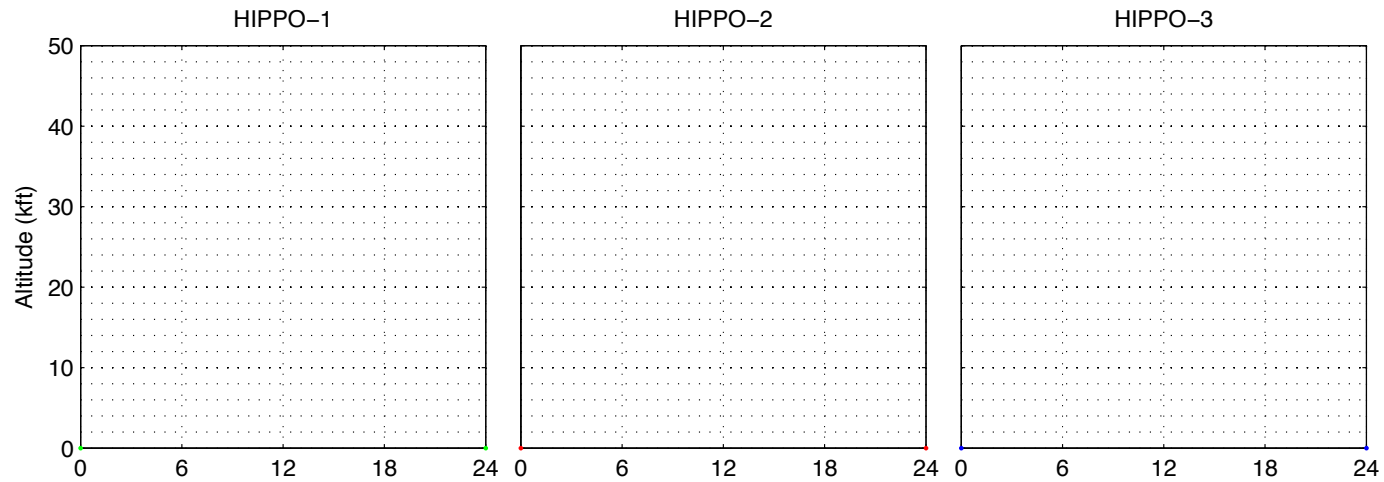


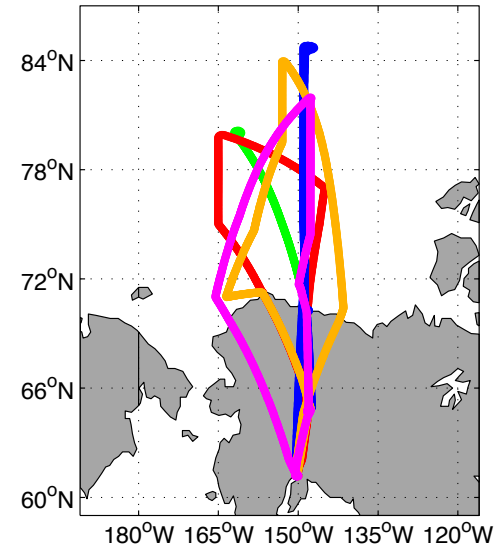
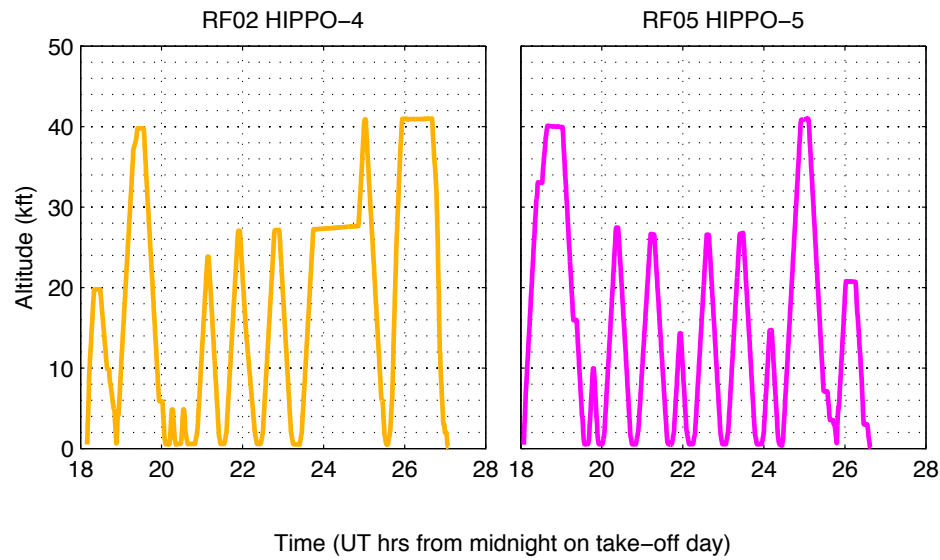
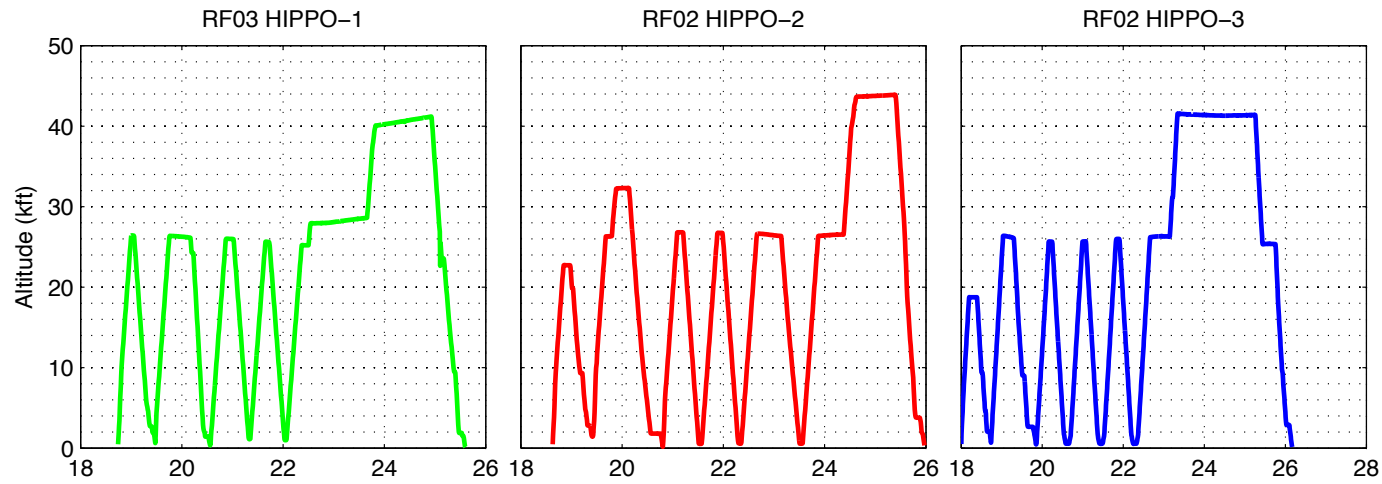


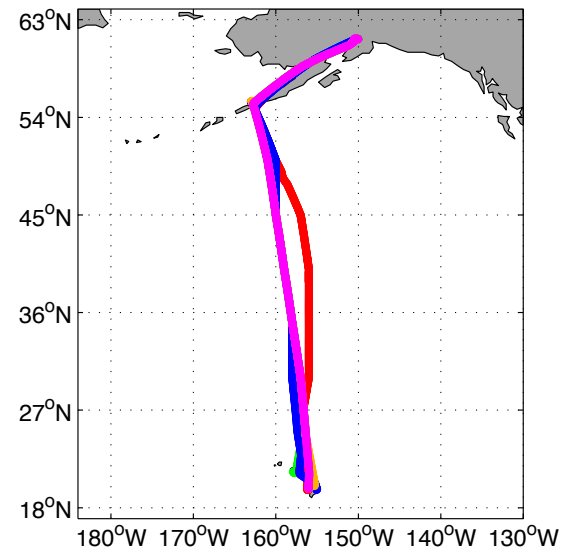
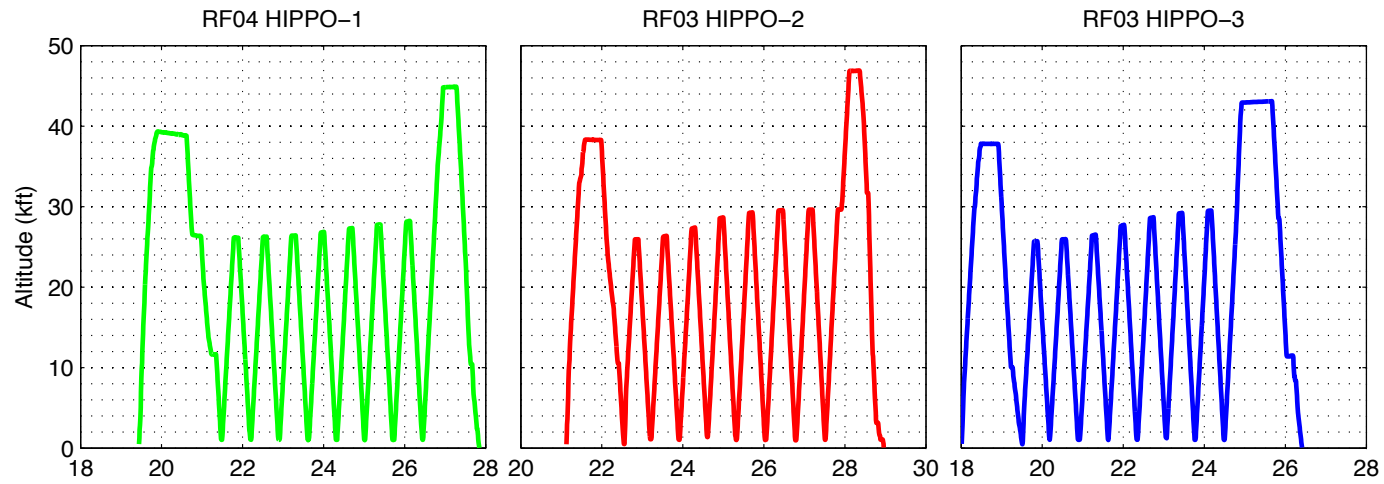


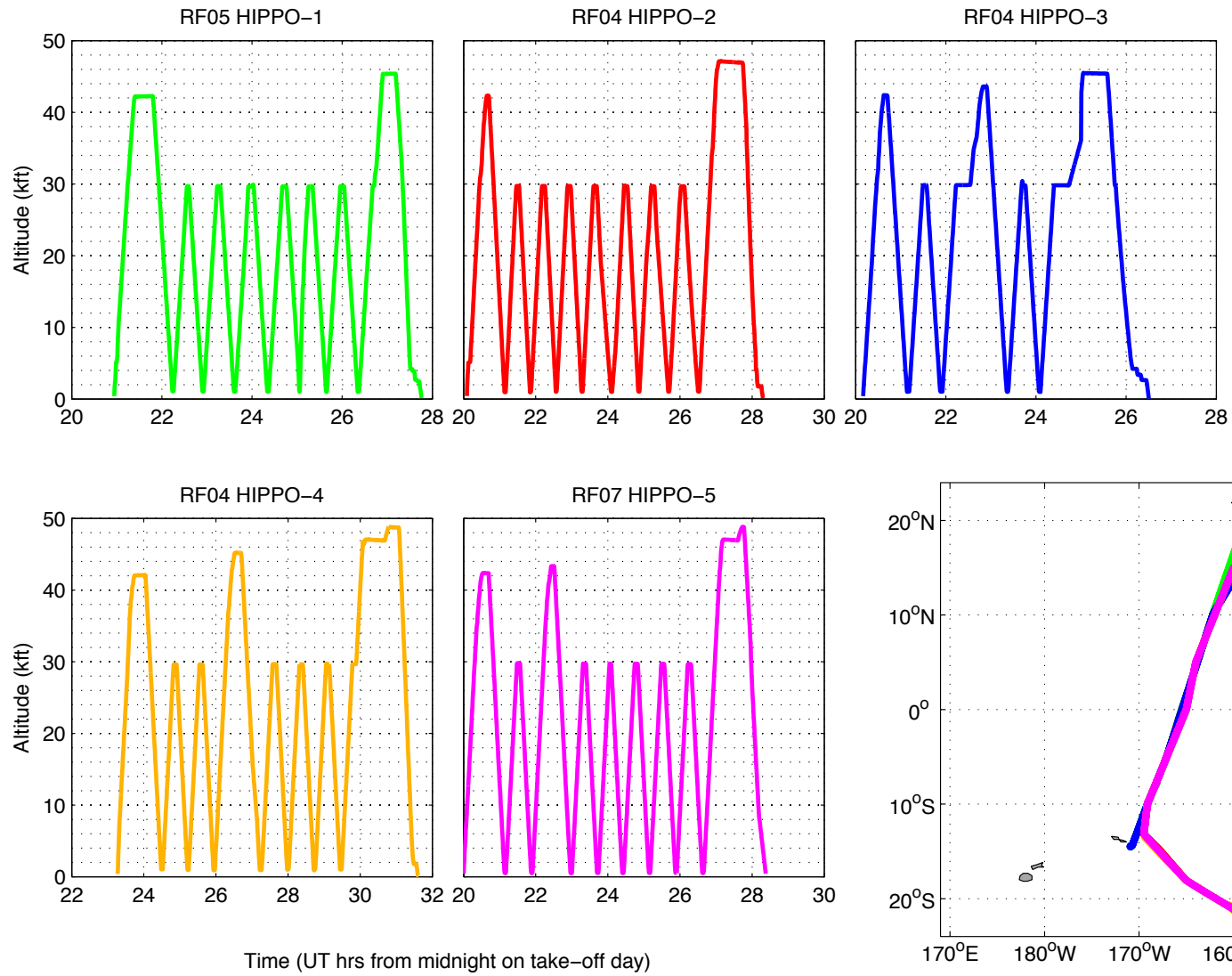


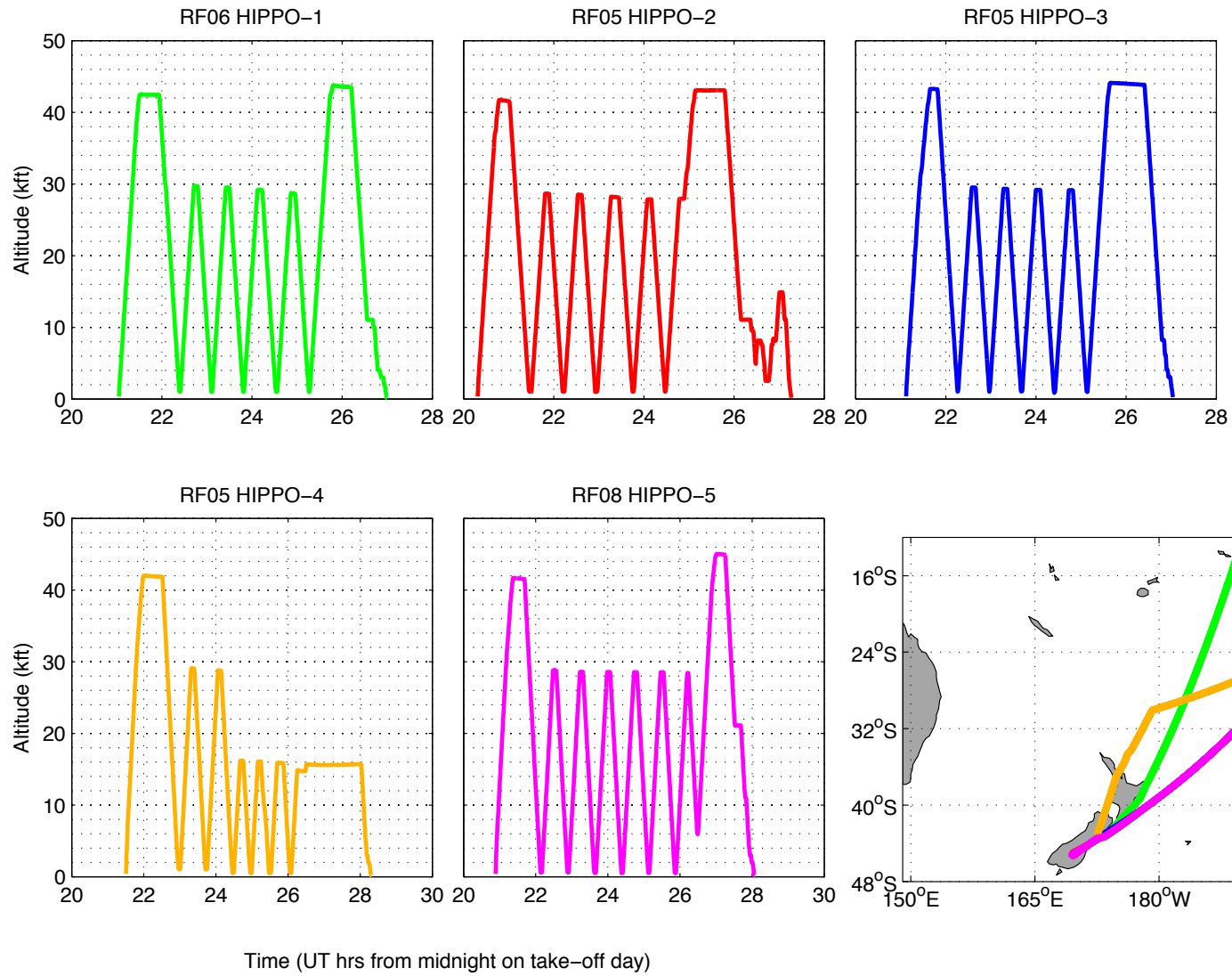


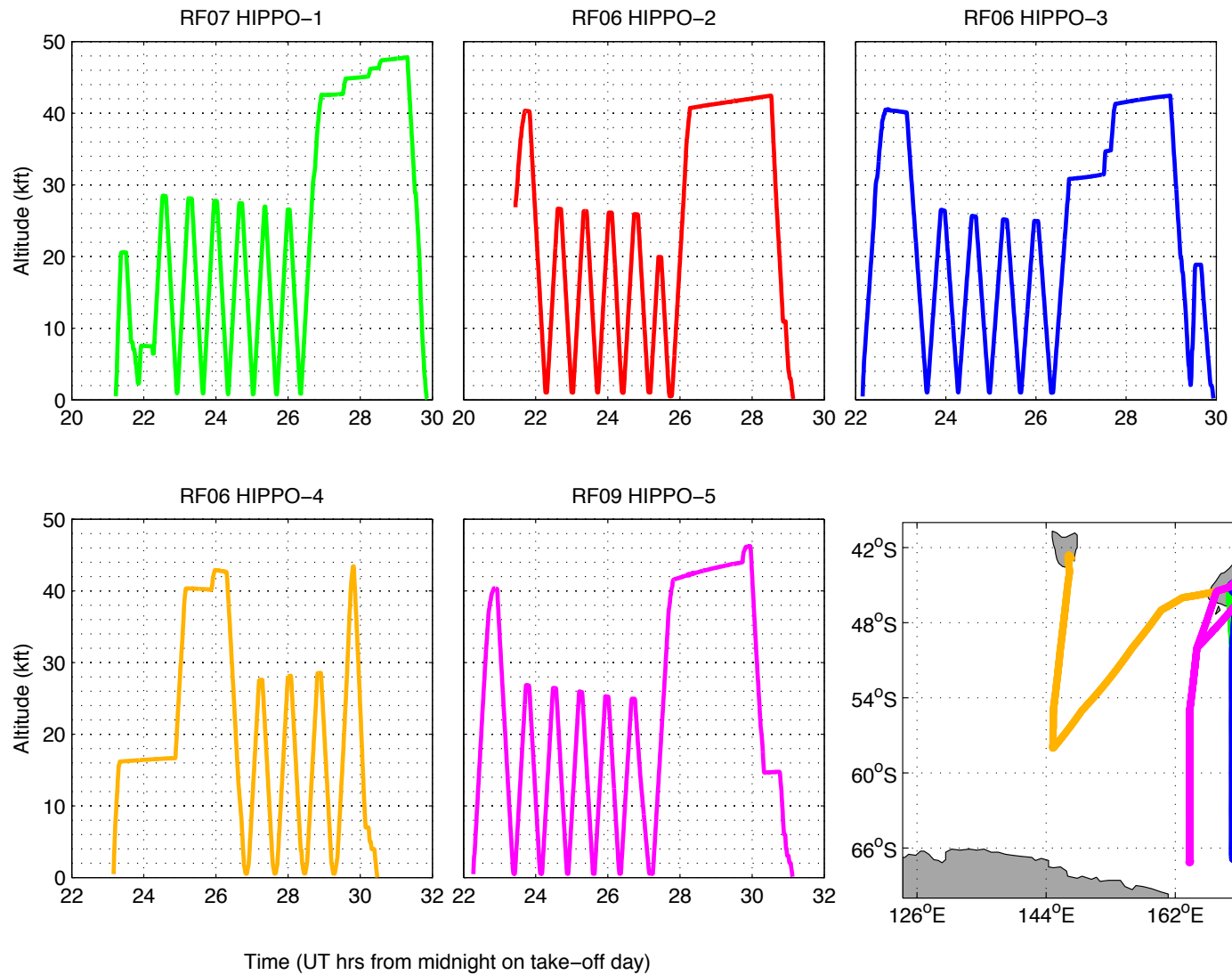




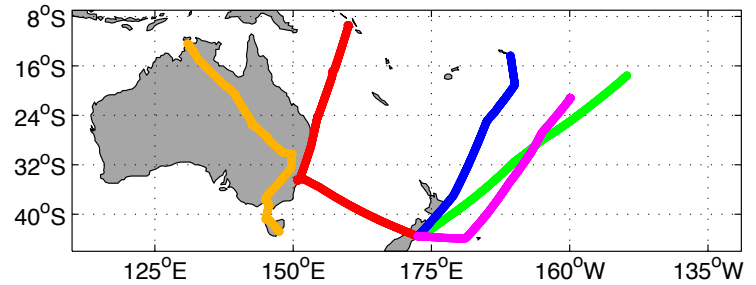
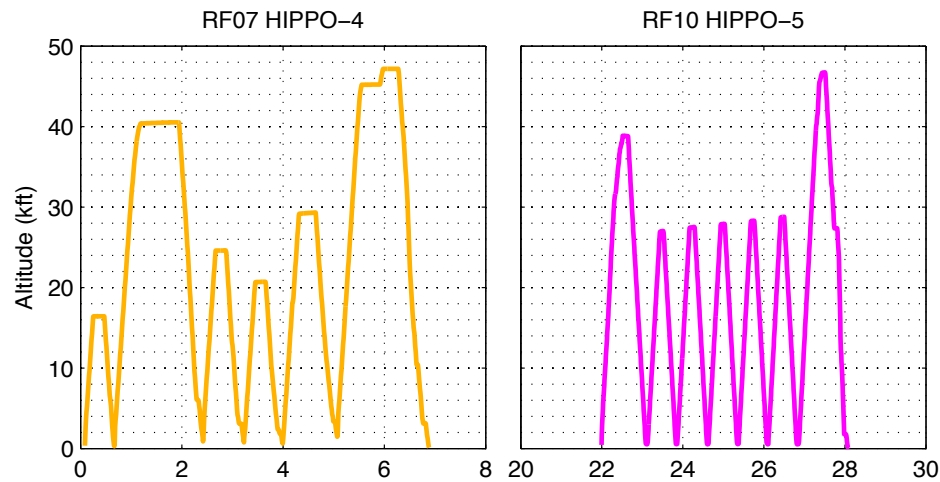
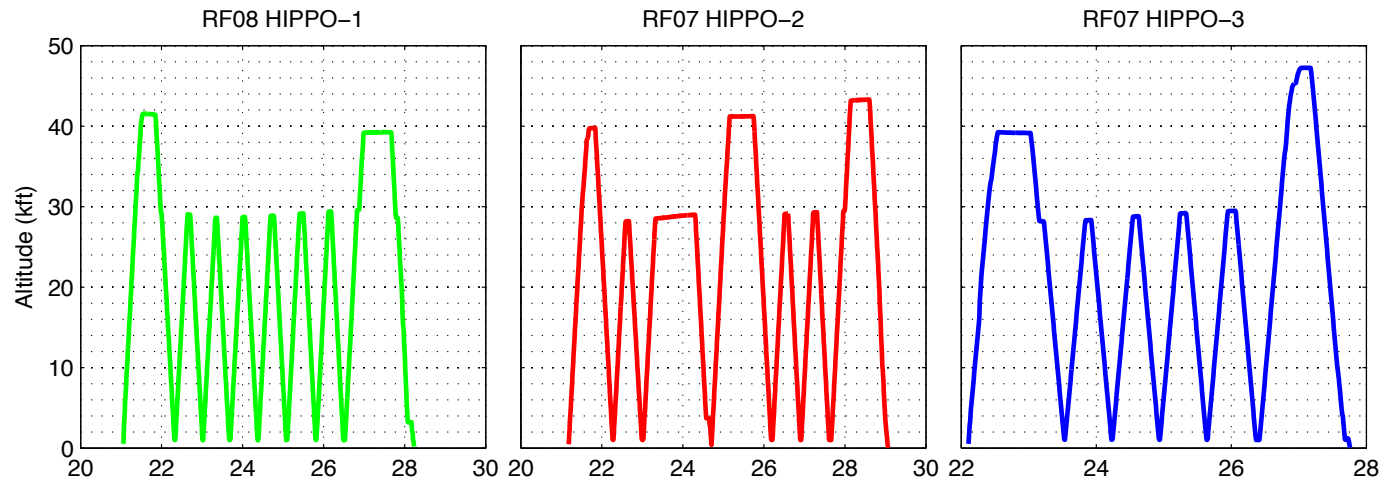




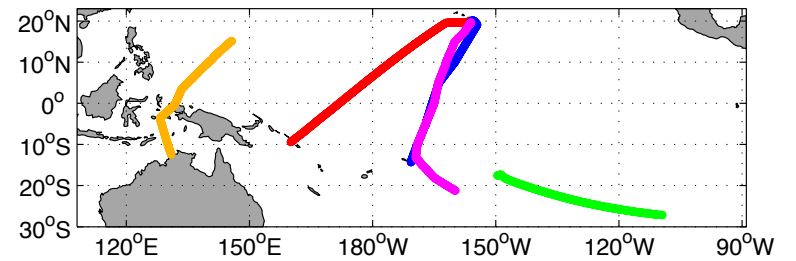
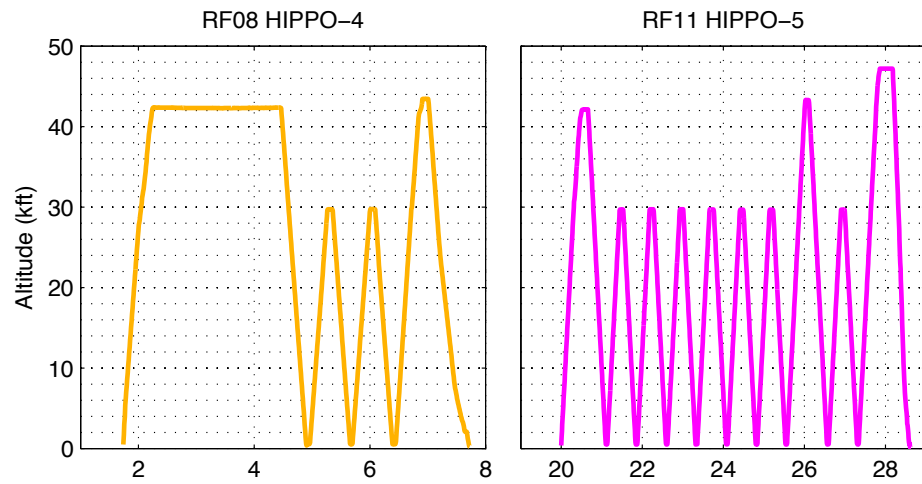
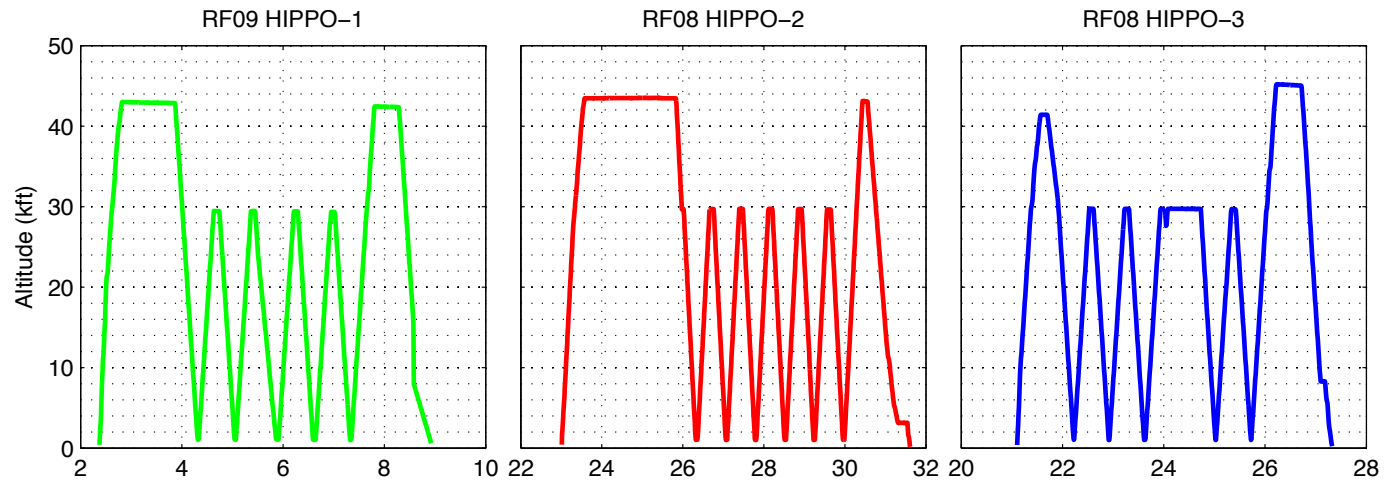




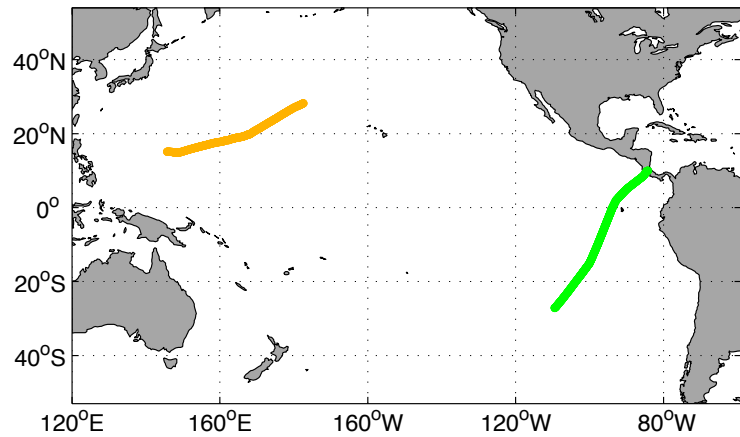
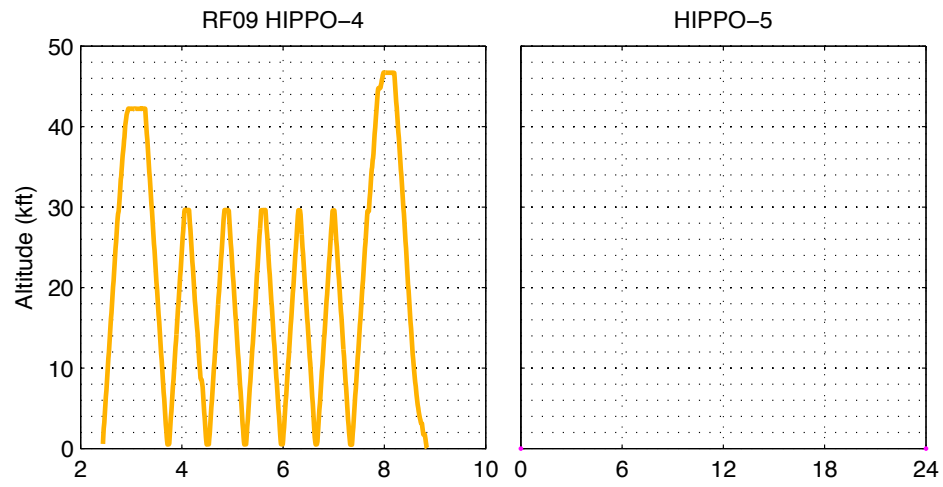
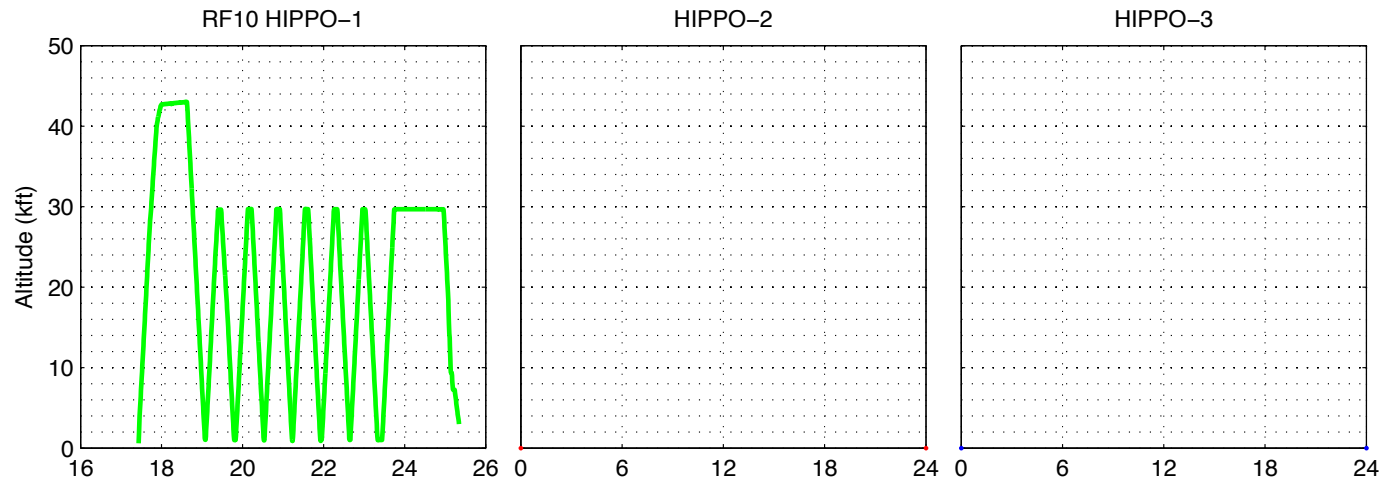




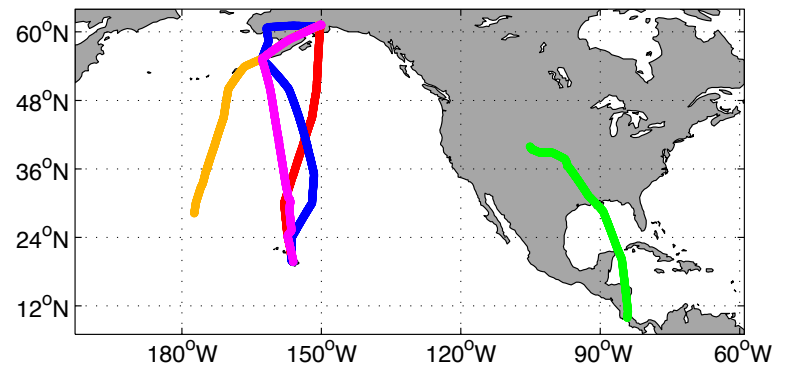
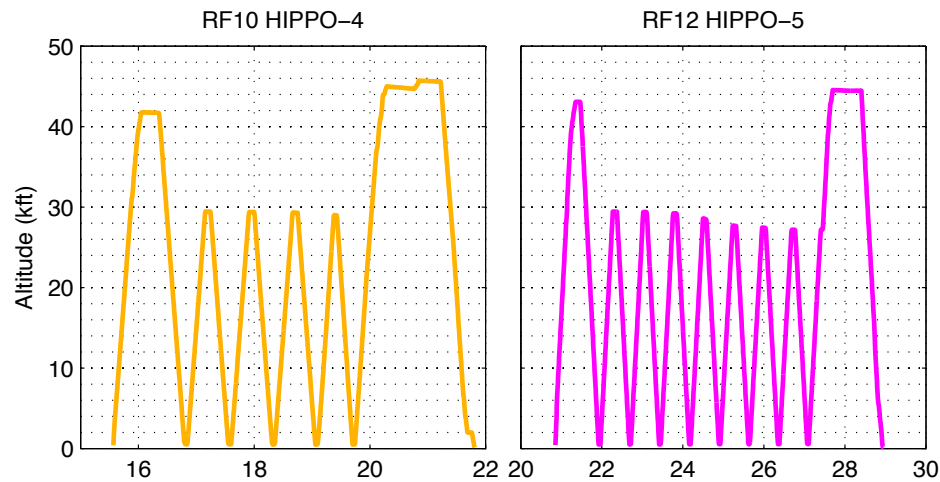
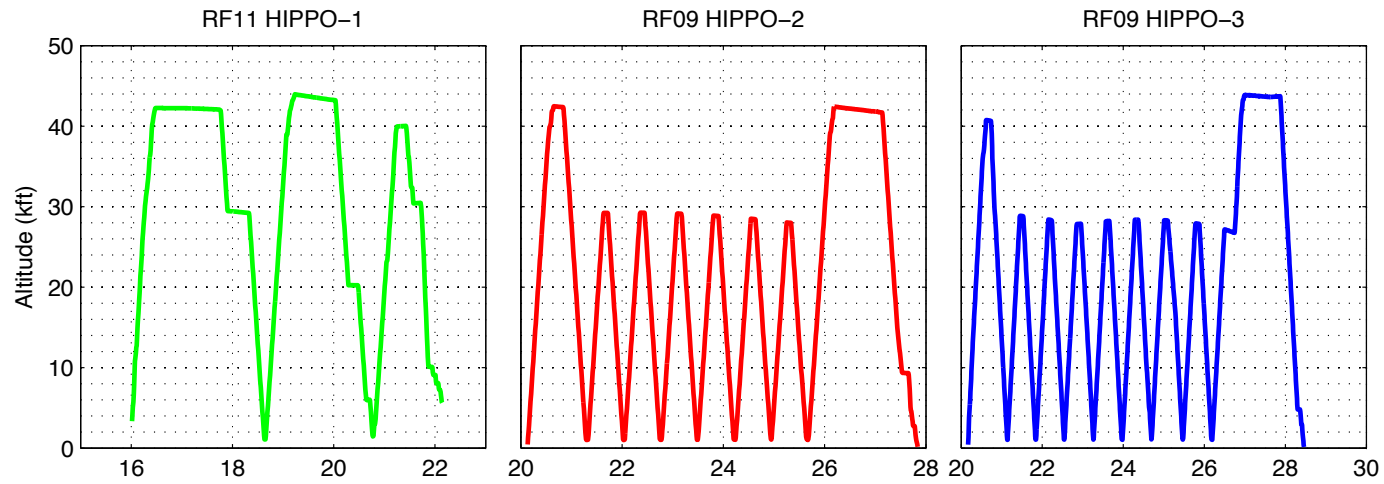
Time (UT hrs from midnight on take-off day)



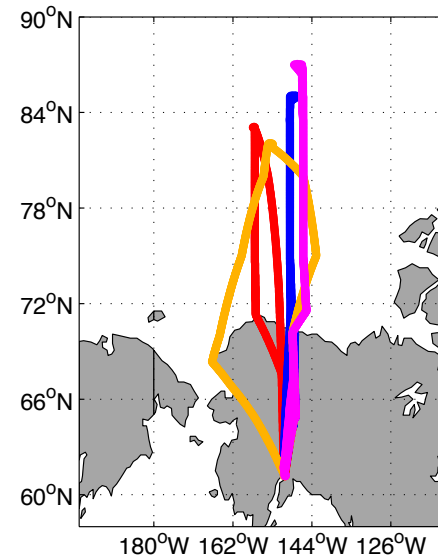
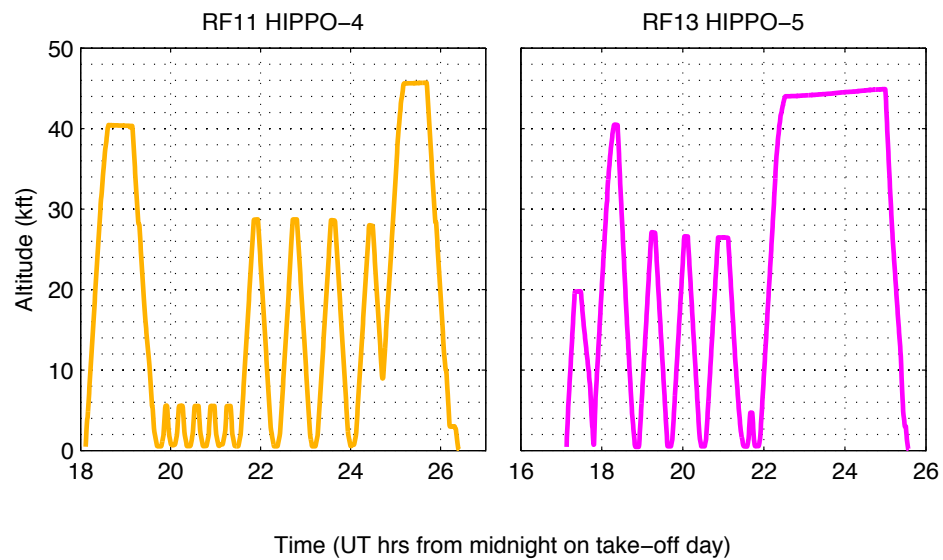
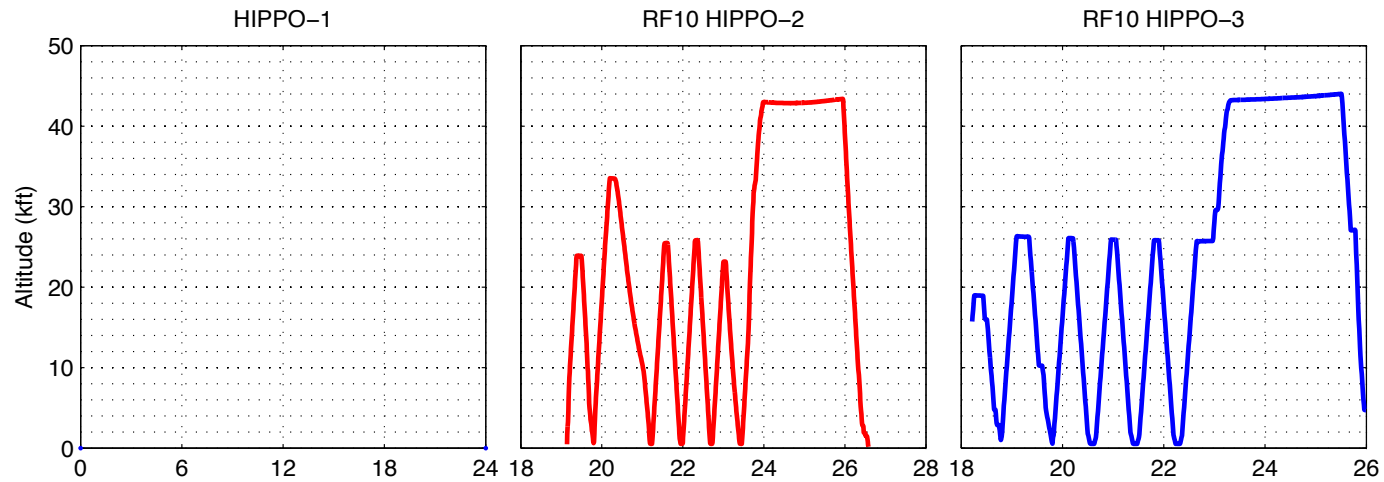
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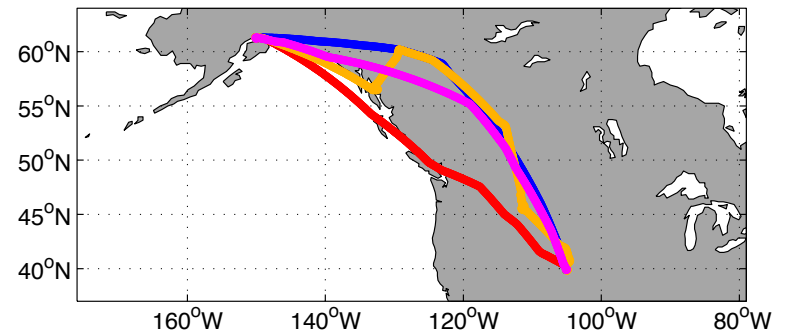
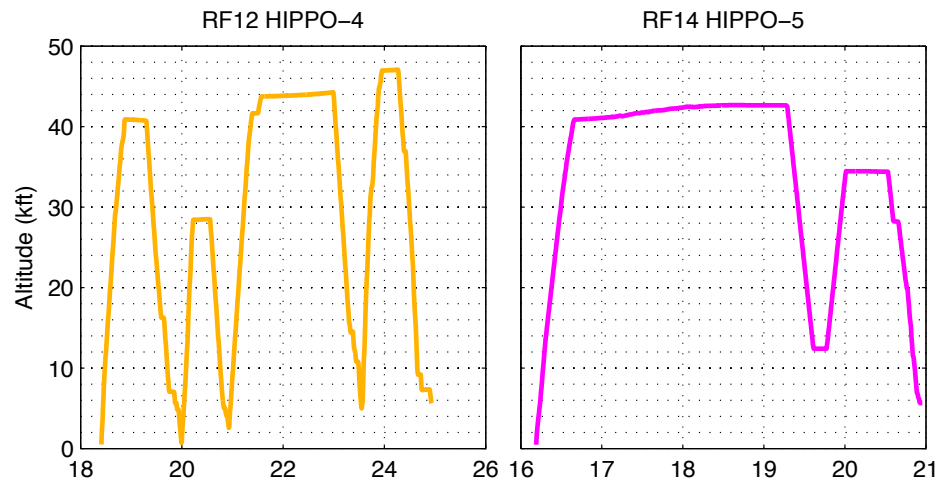
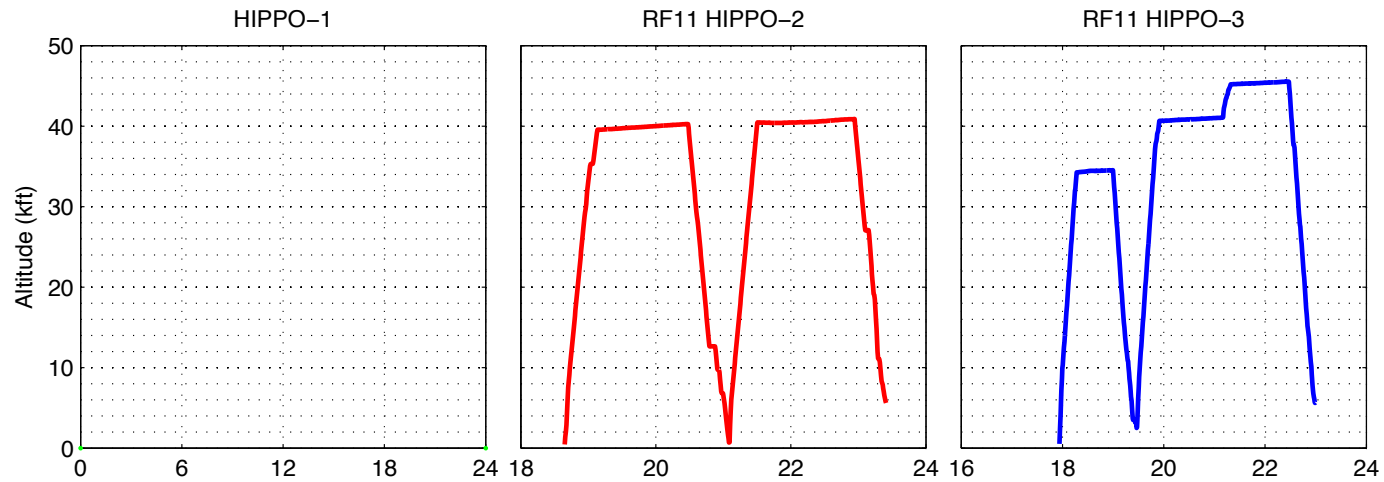


Time (UT hrs from midnight on take-off day)



Time (UT hrs from midnight on take-off day)





Time (UT hrs from midnight on take-off day)