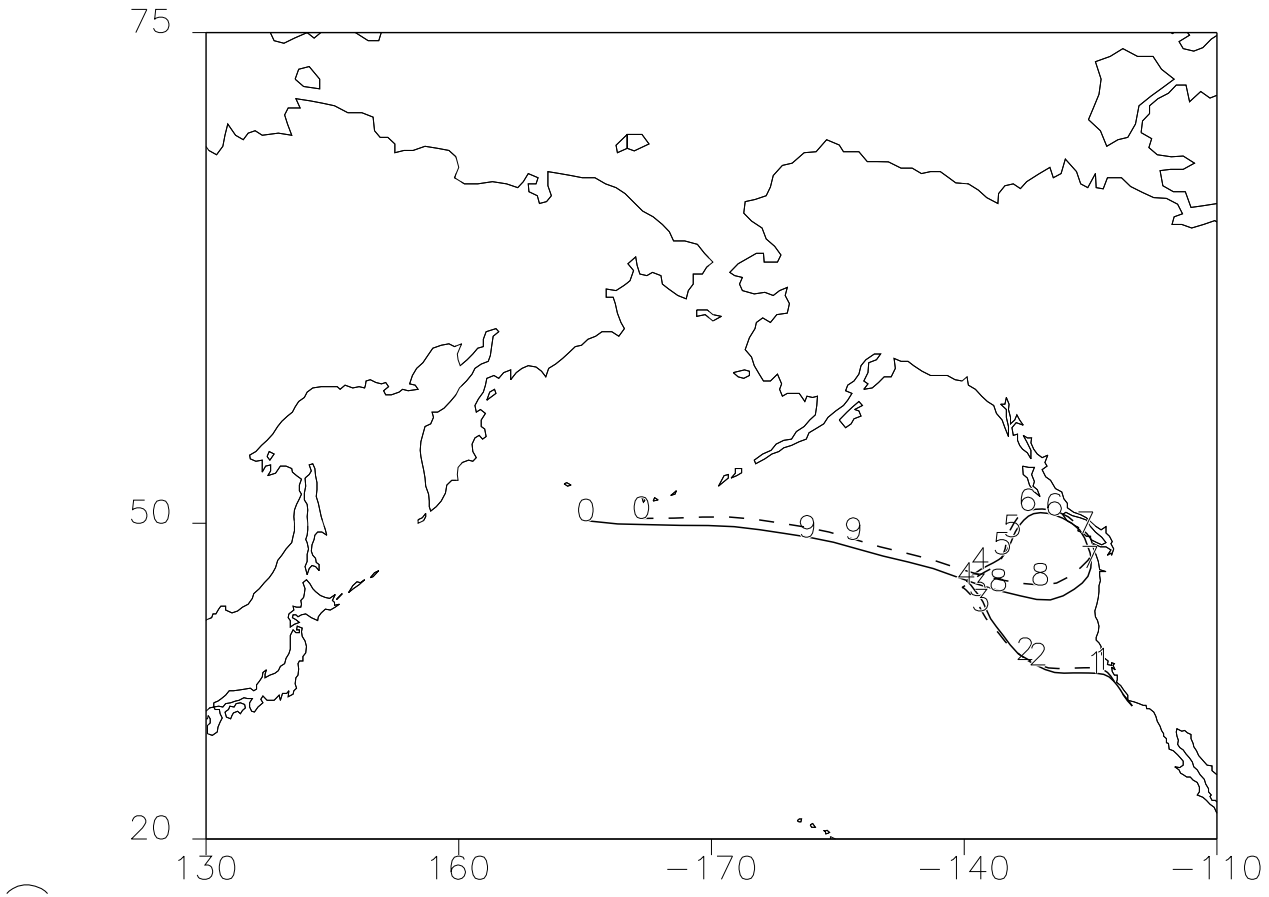
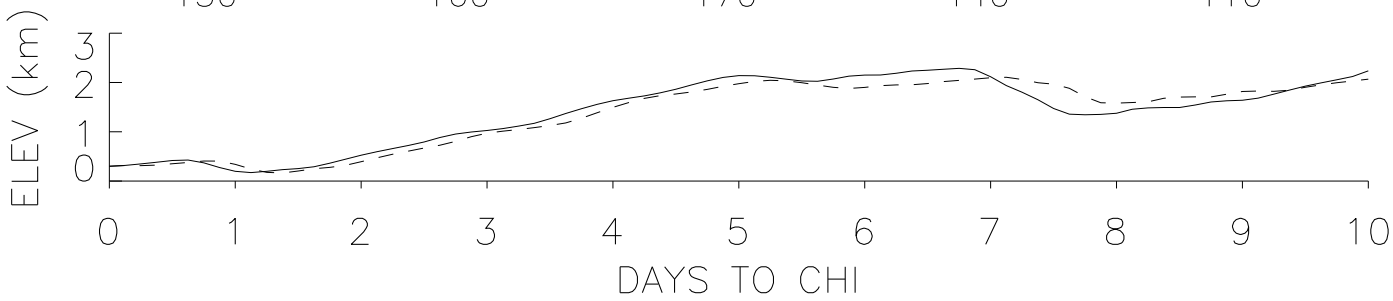
3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/1/2003 (Day of Year 121)
NCEP/NCAR Reanalysis 1 Data Set





00UT

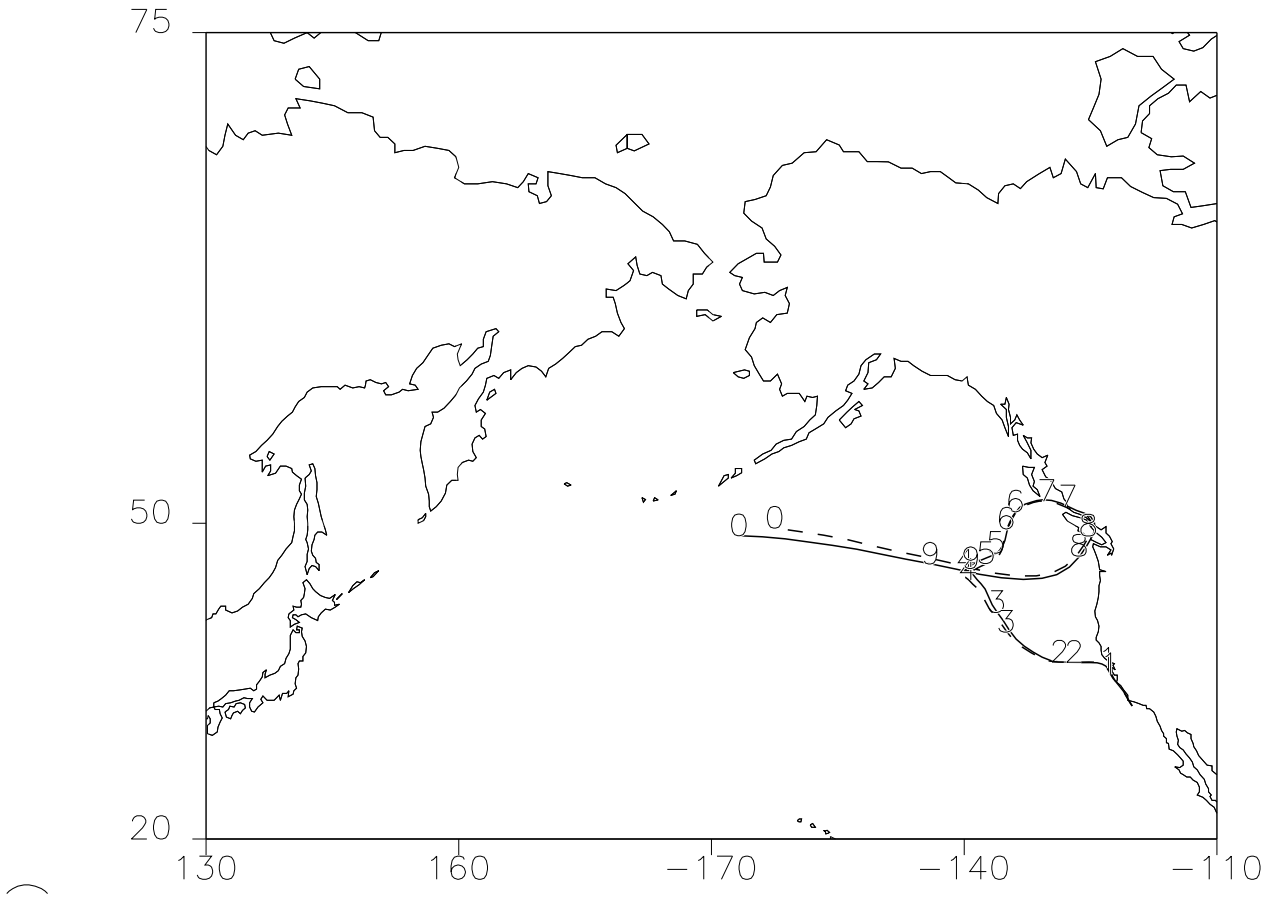
Day	km	hPa	C
0	0.3	979	13
1	0.2	994	11
2	0.5	955	8
3	1.0	901	4
4	1.6	833	−2
5	2.1	775	−7
6	2.2	771	−7
7	2.1	774	−5
8	1.4	852	0
9	1.6	820	−6
10	2.2	750	−14

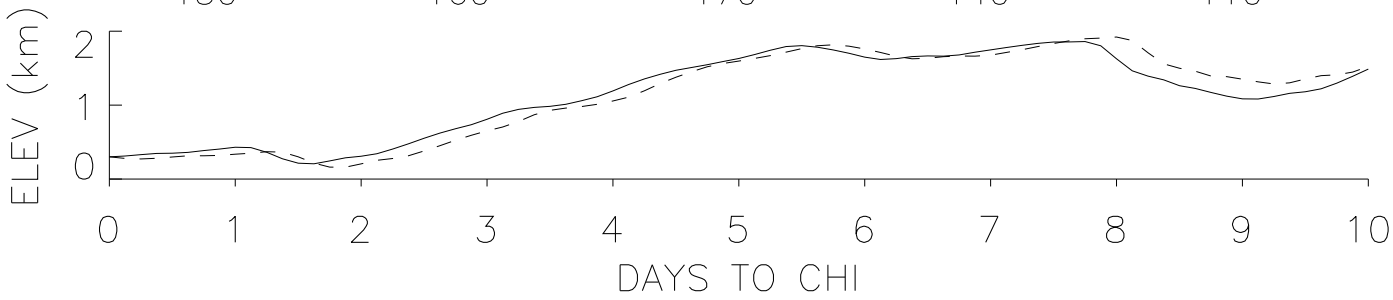
06UT

Day	km	hPa	C
0	0.3	979	12
1	0.3	979	10
2	0.4	970	10
3	1.0	907	4
4	1.5	849	0
5	2.0	792	−6
6	1.9	798	−4
7	2.1	775	−5
8	1.6	829	0
9	1.8	801	−8
10	2.1	769	−11

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/1/2003 (Day of Year 121)
NCEP/NCAR Reanalysis 1 Data Set





12UT

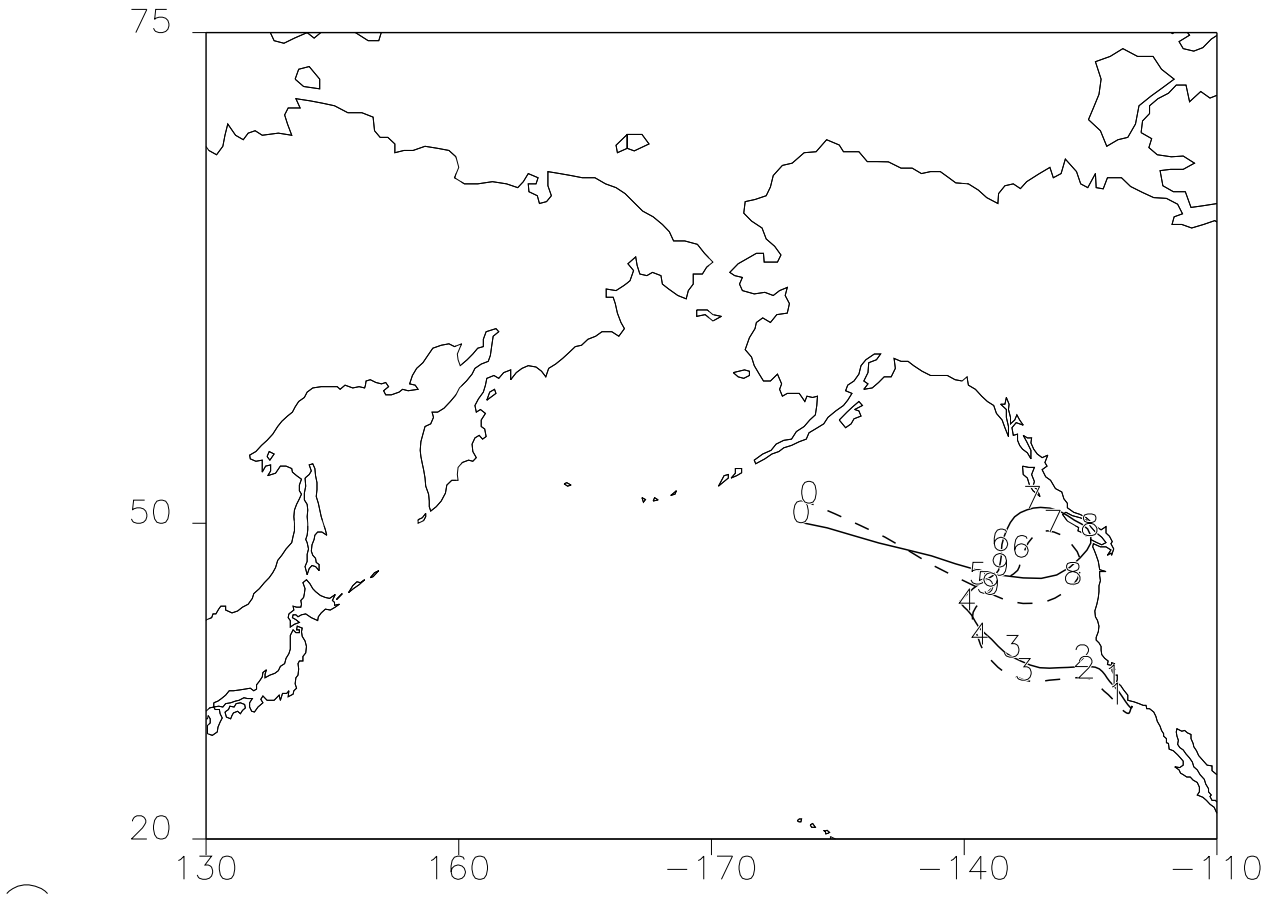
Day	km	hPa	C
0	0.3	979	9
1	0.4	968	8
2	0.3	978	10
3	0.8	923	4
4	1.2	883	2
5	1.6	828	−4
6	1.6	824	−3
7	1.7	810	−4
8	1.6	821	−4
9	1.1	882	0
10	1.5	834	−4

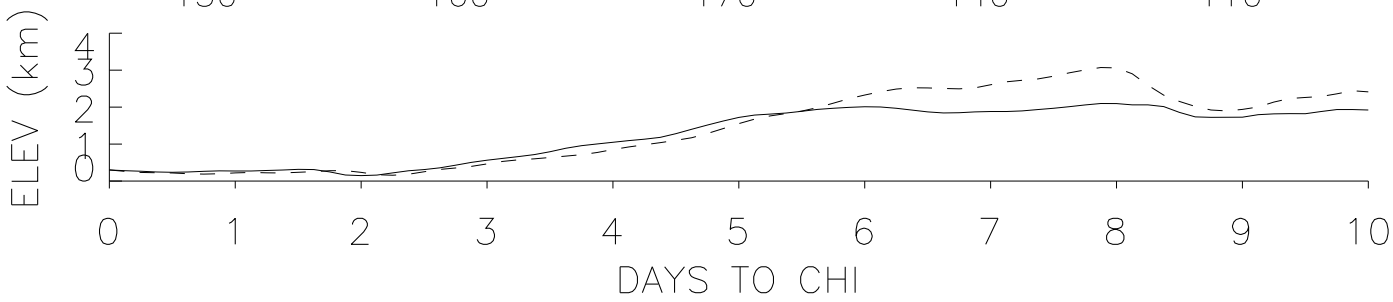
18UT

Day	km	hPa	C
0	0.3	980	14
1	0.3	980	11
2	0.2	993	11
3	0.7	940	6
4	1.1	899	4
5	1.6	834	−3
6	1.8	813	−5
7	1.7	818	−3
8	1.9	793	−5
9	1.4	853	−1
10	1.5	831	−5

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/2/2003 (Day of Year 122)
NCEP/NCAR Reanalysis 1 Data Set





00UT

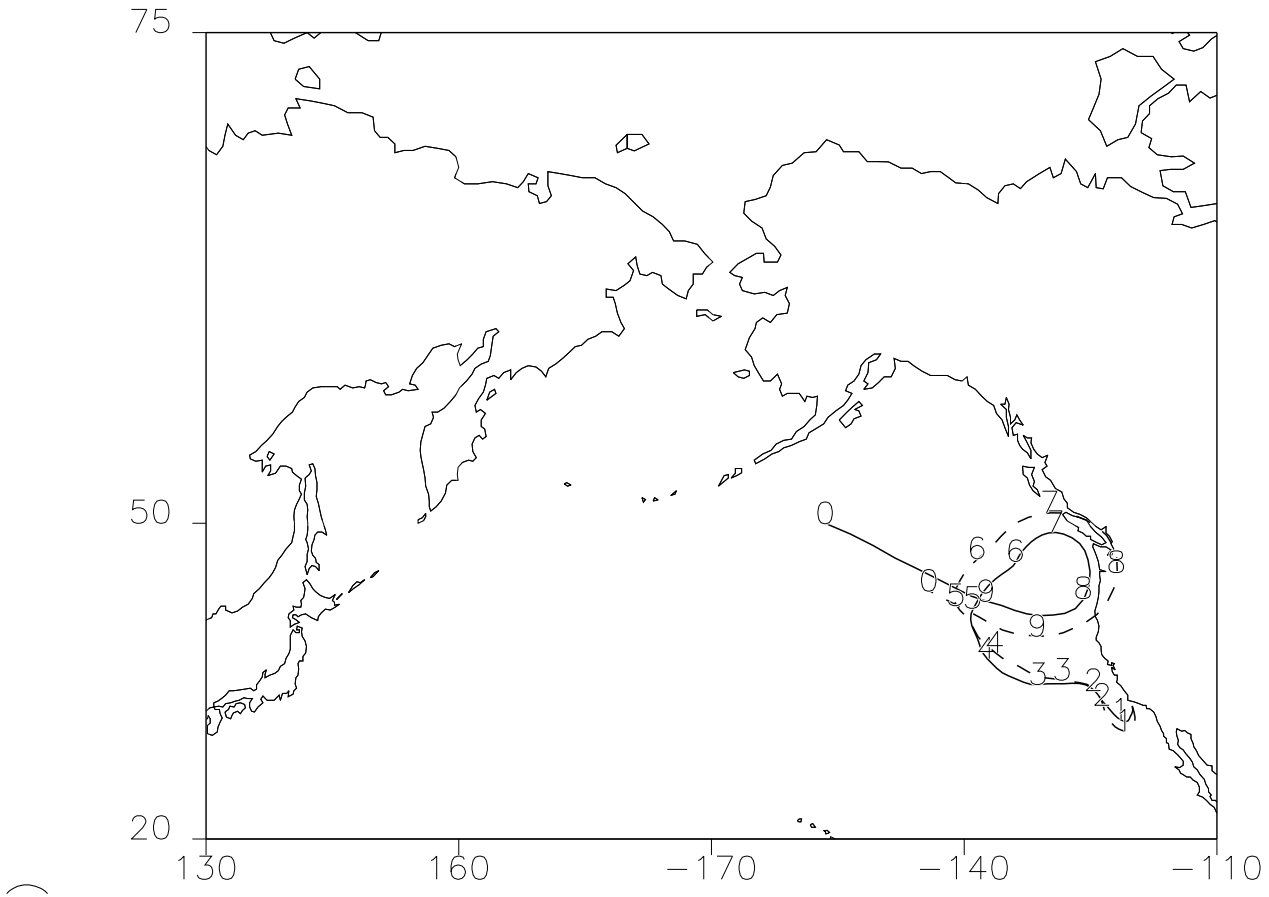
Day	km	hPa	C
0	0.3	978	14
1	0.3	984	12
2	0.1	1000	11
3	0.6	951	7
4	1.0	900	5
5	1.7	822	−2
6	2.0	788	−7
7	1.9	799	−5
8	2.1	776	−5
9	1.7	812	−3
10	1.9	789	−9

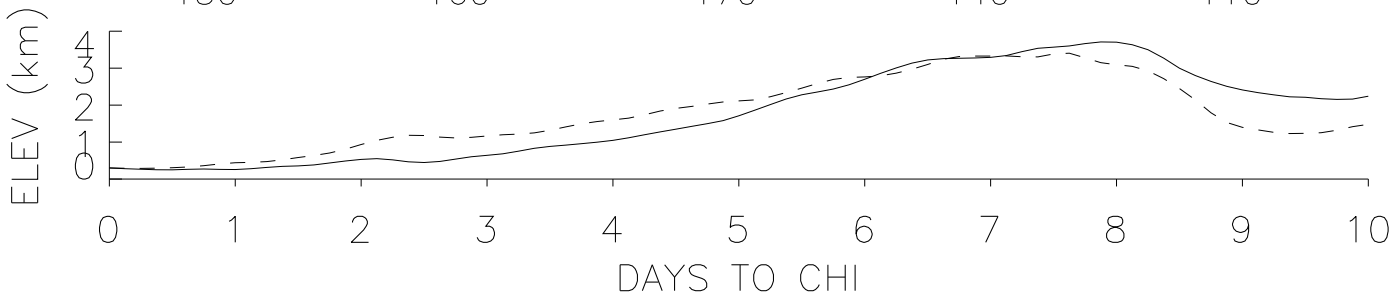
06UT

Day	km	hPa	C
0	0.3	978	13
1	0.2	991	11
2	0.2	992	11
3	0.5	964	9
4	0.9	922	5
5	1.6	841	−2
6	2.3	757	−8
7	2.6	728	−10
8	3.1	684	−12
9	1.9	796	−2
10	2.4	738	−13

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/2/2003 (Day of Year 122)
NCEP/NCAR Reanalysis 1 Data Set





12UT

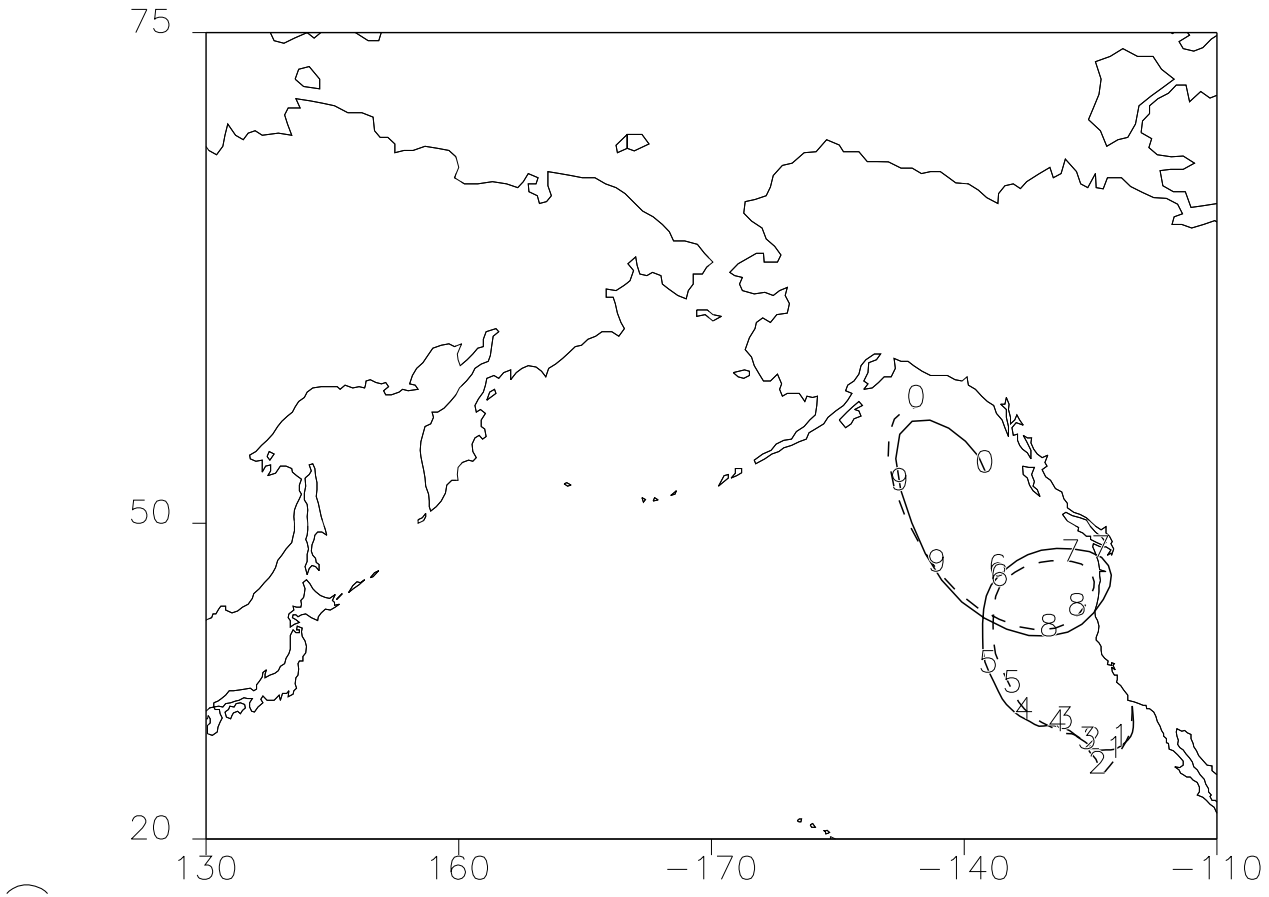
Day	km	hPa	C
0	0.3	977	13
1	0.3	985	10
2	0.5	957	8
3	0.6	942	6
4	1.0	900	5
5	1.7	827	0
6	2.7	721	−10
7	3.3	664	−14
8	3.7	627	−18
9	2.4	748	−6
10	2.2	761	−11

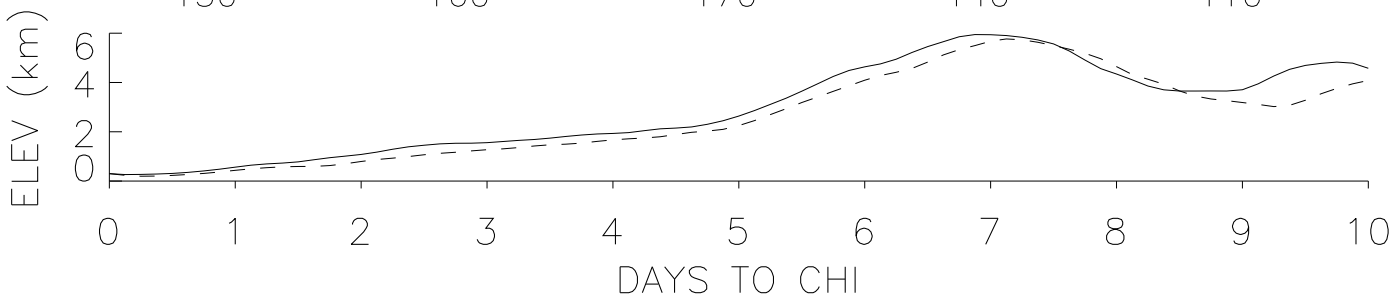
18UT

Day	km	hPa	C
0	0.3	976	15
1	0.4	965	10
2	0.9	912	5
3	1.2	885	4
4	1.6	839	2
5	2.1	790	0
6	2.8	719	−8
7	3.3	664	−12
8	3.1	685	−12
9	1.4	852	3
10	1.5	846	−1

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/3/2003 (Day of Year 123)
NCEP/NCAR Reanalysis 1 Data Set





00UT

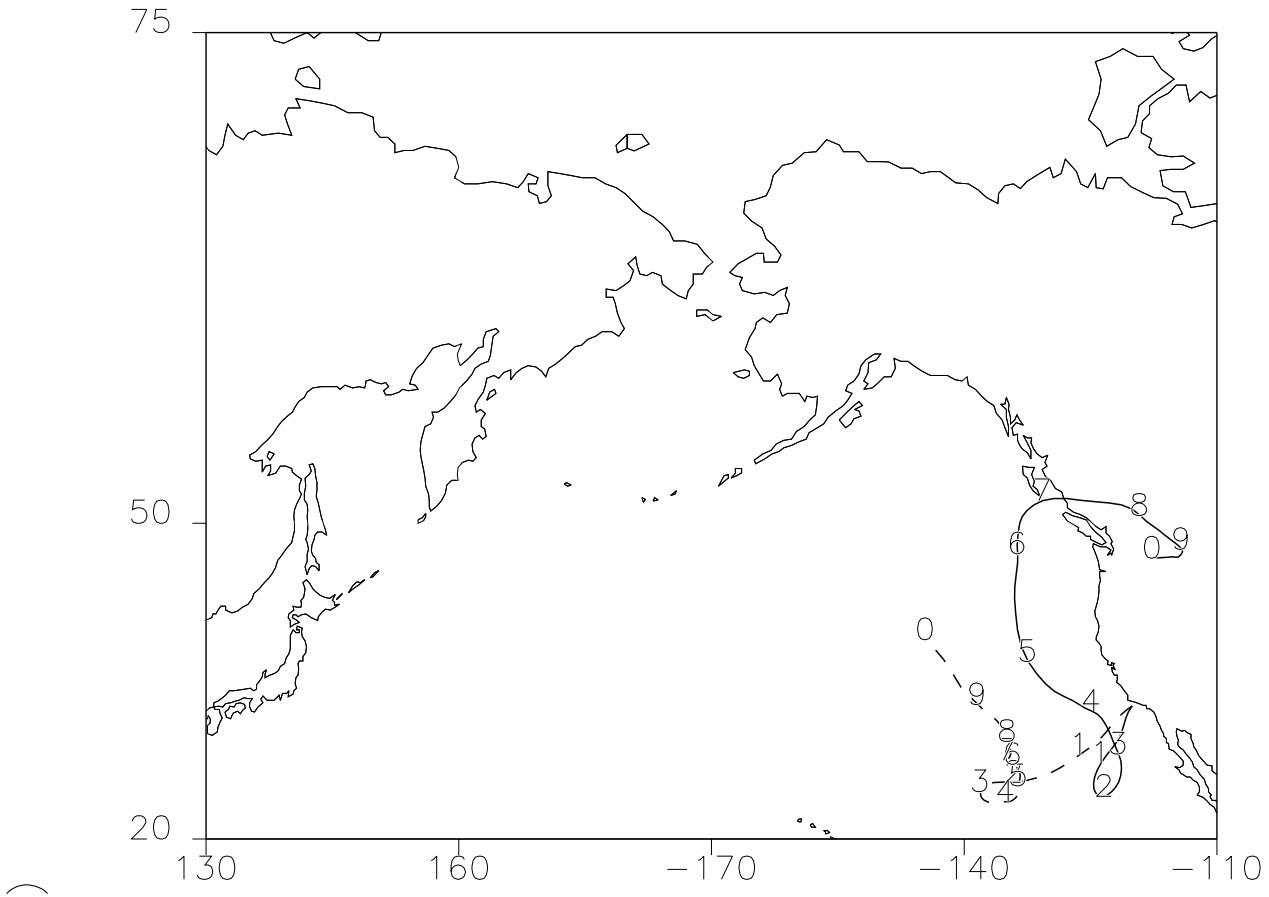
Day	km	hPa	C
0	0.3	974	14
1	0.6	950	9
2	1.1	895	5
3	1.6	845	3
4	1.9	807	4
5	2.6	739	−1
6	4.6	562	−22
7	5.9	462	−36
8	4.3	578	−21
9	3.7	629	−14
10	4.6	550	−21

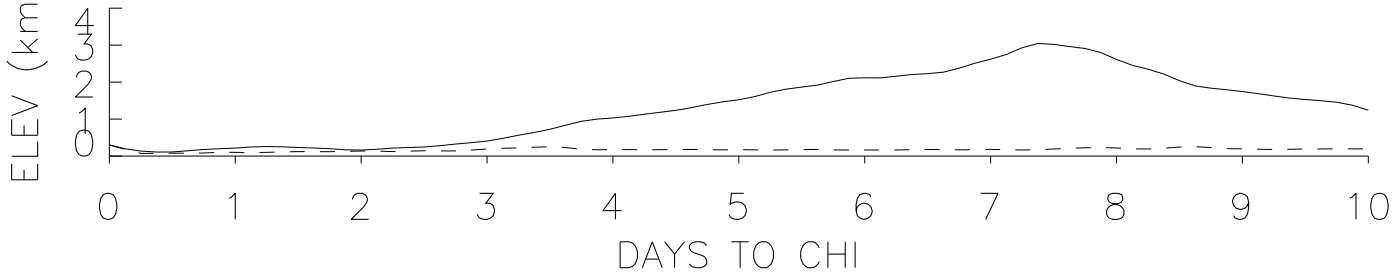
06UT

Day	km	hPa	C
0	0.3	974	14
1	0.4	965	12
2	0.8	928	8
3	1.3	877	5
4	1.7	834	5
5	2.2	775	2
6	4.1	606	−17
7	5.7	481	−35
8	4.6	554	−27
9	3.2	677	−9
10	4.1	588	−19

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/3/2003 (Day of Year 123)
NCEP/NCAR Reanalysis 1 Data Set





12UT

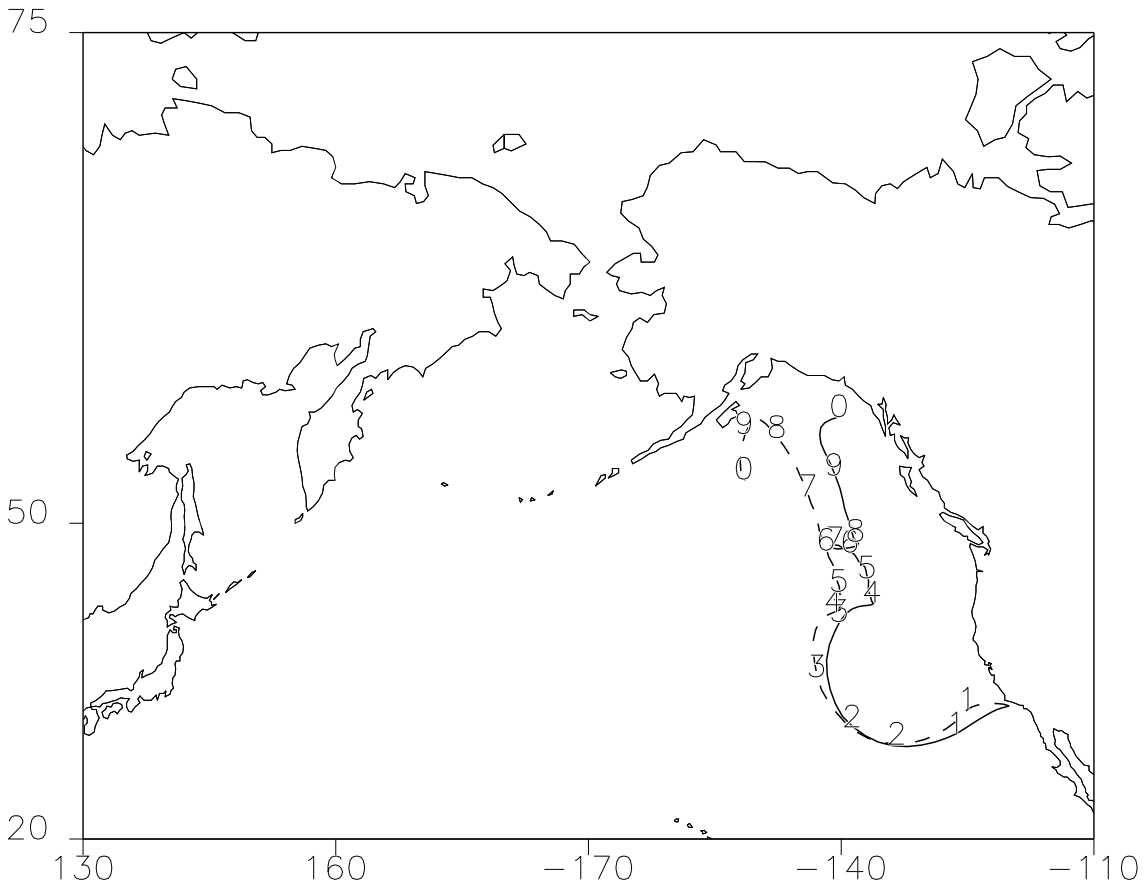
Day	km	hPa	C
0	0.3	973	13
1	0.2	988	17
2	0.2	998	15
3	0.4	971	9
4	1.0	900	5
5	1.5	843	2
6	2.1	782	−5
7	2.6	731	−5
8	2.6	729	−5
9	1.7	816	7
10	1.2	865	5

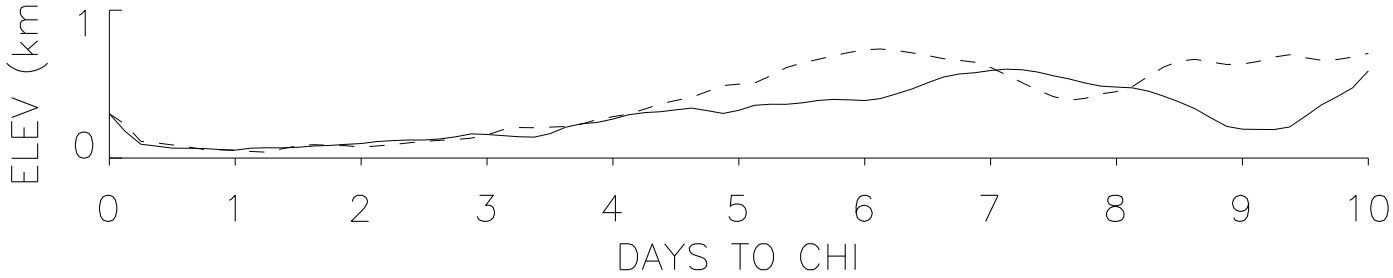
18UT

Day	km	hPa	C
0	0.3	976	14
1	0.1	999	17
2	0.1	1000	19
3	0.2	996	19
4	0.2	1000	19
5	0.2	1000	17
6	0.2	1000	16
7	0.2	1000	16
8	0.2	996	14
9	0.2	1000	11
10	0.2	1000	6

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/4/2003 (Day of Year 124)
NCEP/NCAR Reanalysis 1 Data Set





00UT

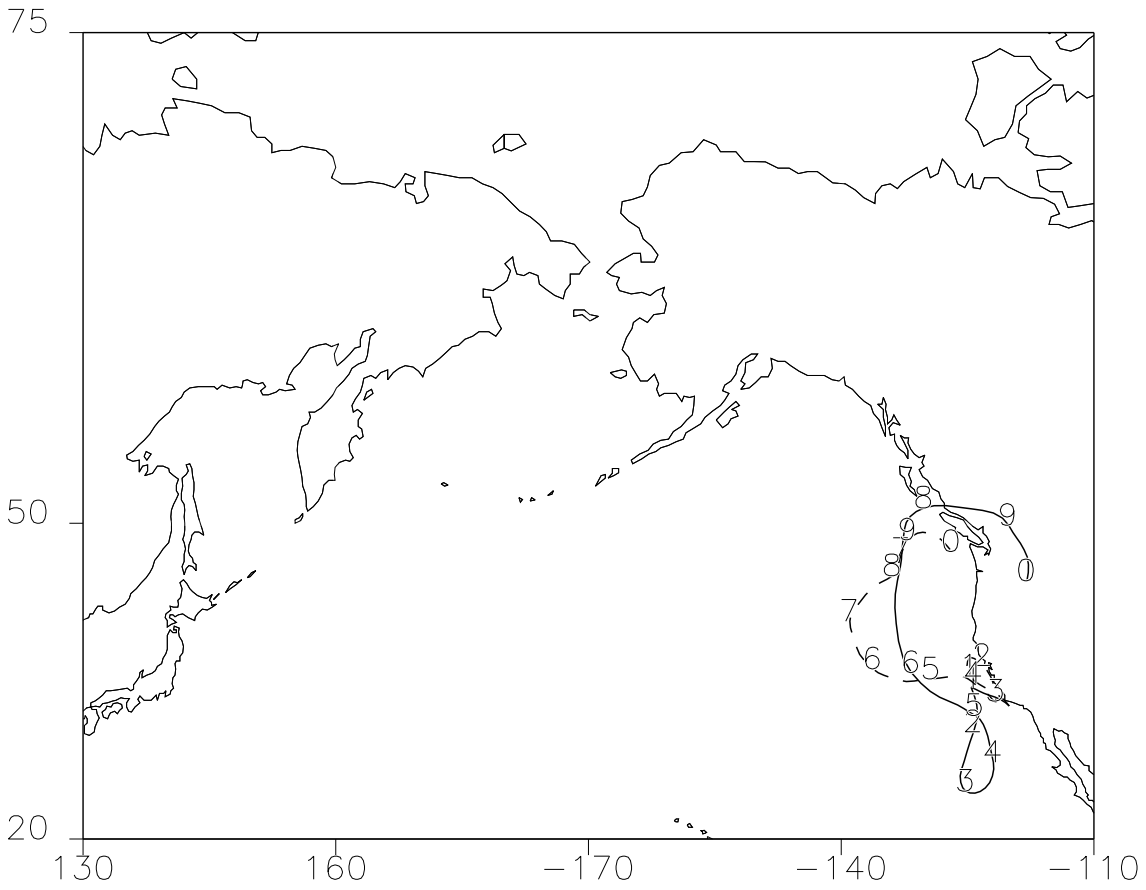
Day	km	hPa	C
0	0.3	977	13
1	0.1	999	15
2	0.1	1000	14
3	0.2	997	10
4	0.3	985	7
5	0.3	977	7
6	0.4	972	6
7	0.6	948	6
8	0.5	956	4
9	0.2	991	8
10	0.6	936	5

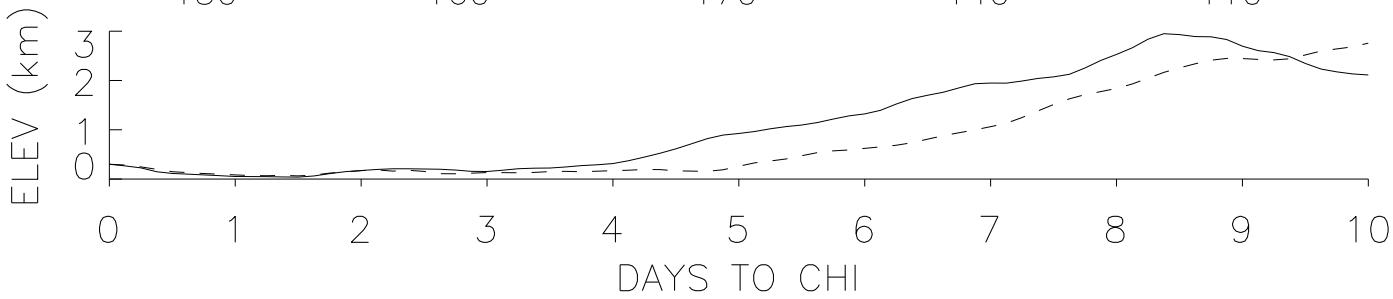
06UT

Day	km	hPa	C
0	0.3	981	11
1	0.1	1000	15
2	0.1	1000	15
3	0.2	997	12
4	0.3	983	7
5	0.5	957	6
6	0.7	933	6
7	0.6	948	6
8	0.4	964	7
9	0.6	941	3
10	0.7	932	5

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/4/2003 (Day of Year 124)
NCEP/NCAR Reanalysis 1 Data Set





12UT

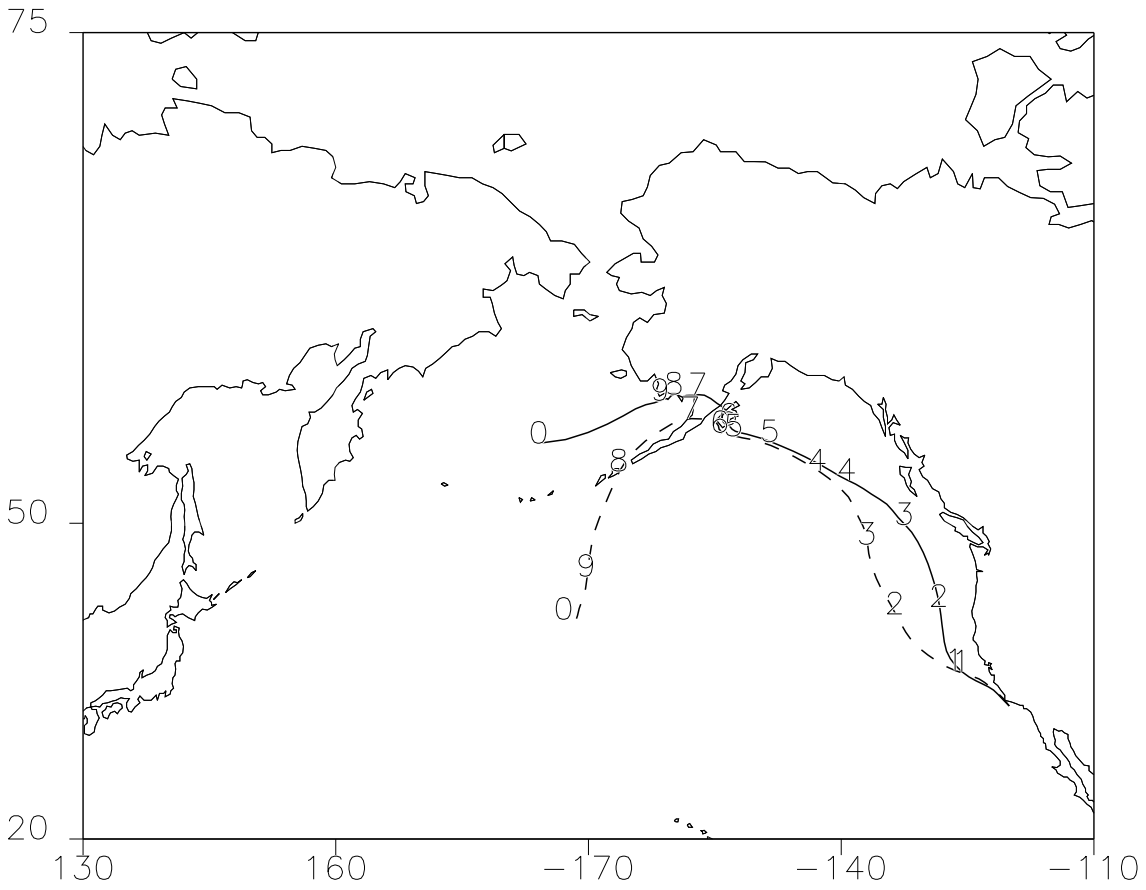
Day	km	hPa	C
0	0.3	983	11
1	0.1	1000	14
2	0.2	990	16
3	0.2	998	16
4	0.3	981	11
5	0.9	911	5
6	1.3	864	4
7	1.9	799	−4
8	2.5	739	−5
9	2.7	721	−7
10	2.1	779	1

18UT

Day	km	hPa	C
0	0.3	984	13
1	0.1	1000	14
2	0.2	988	15
3	0.1	1000	14
4	0.2	1000	12
5	0.3	988	10
6	0.6	947	7
7	1.1	899	4
8	1.8	807	−6
9	2.4	744	−9
10	2.8	710	−13

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/5/2003 (Day of Year 125)
NCEP/NCAR Reanalysis 1 Data Set

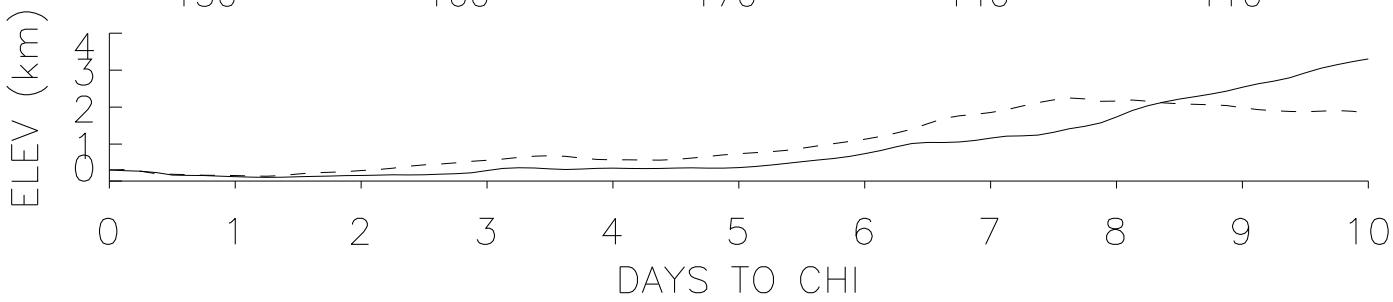


00UT

Day	km	hPa	C
0	0.3	982	12
1	0.1	1000	13
2	0.1	994	10
3	0.3	988	5
4	0.3	980	6
5	0.4	976	7
6	0.7	936	5
7	1.2	886	0
8	1.7	825	−5
9	2.5	741	−11
10	3.3	652	−19

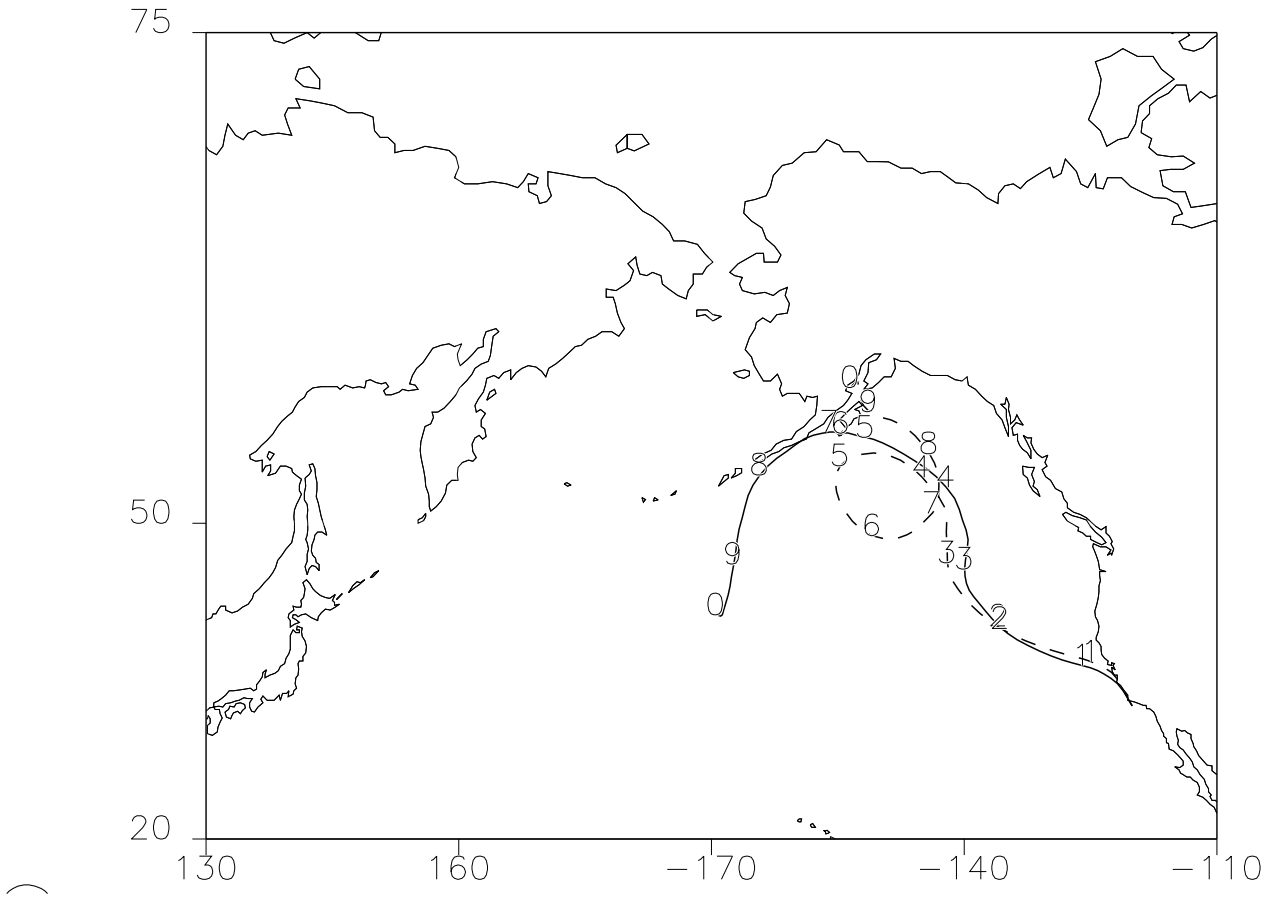
06UT

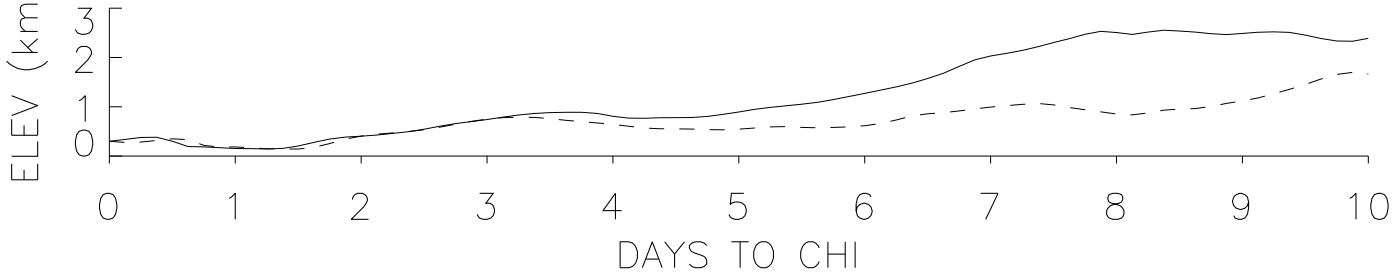
Day	km	hPa	C
0	0.3	982	12
1	0.1	1000	12
2	0.3	982	6
3	0.6	957	2
4	0.6	955	5
5	0.7	933	5
6	1.1	891	4
7	1.9	813	−4
8	2.2	780	−7
9	2.0	800	−4
10	1.8	821	1



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/5/2003 (Day of Year 125)
NCEP/NCAR Reanalysis 1 Data Set





12UT

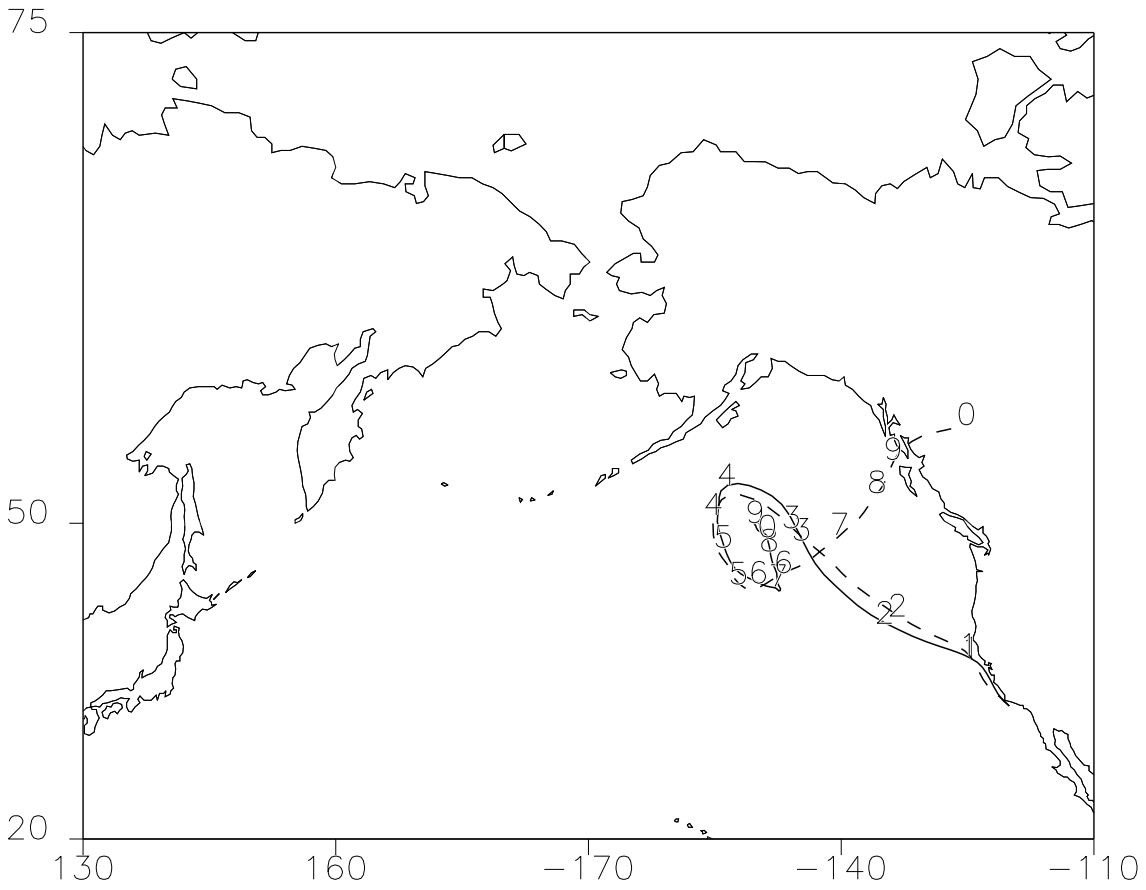
Day	km	hPa	C
0	0.3	981	12
1	0.2	1000	11
2	0.4	968	6
3	0.7	937	1
4	0.8	929	1
5	0.9	915	5
6	1.3	875	4
7	2.0	796	−2
8	2.5	748	−8
9	2.5	752	−6
10	2.4	768	−1

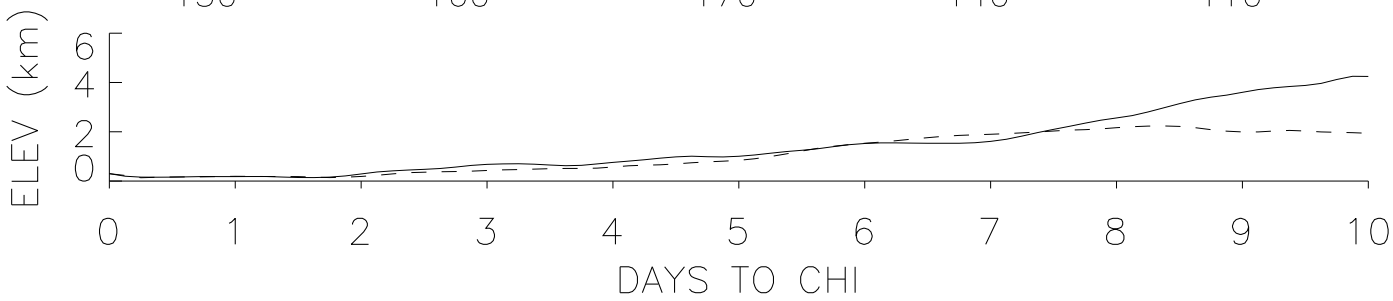
18UT

Day	km	hPa	C
0	0.3	981	14
1	0.2	1000	11
2	0.4	968	7
3	0.8	936	1
4	0.6	952	4
5	0.5	958	4
6	0.6	947	3
7	1.0	904	3
8	0.9	919	5
9	1.1	888	4
10	1.7	828	−4

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/6/2003 (Day of Year 126)
NCEP/NCAR Reanalysis 1 Data Set





00UT

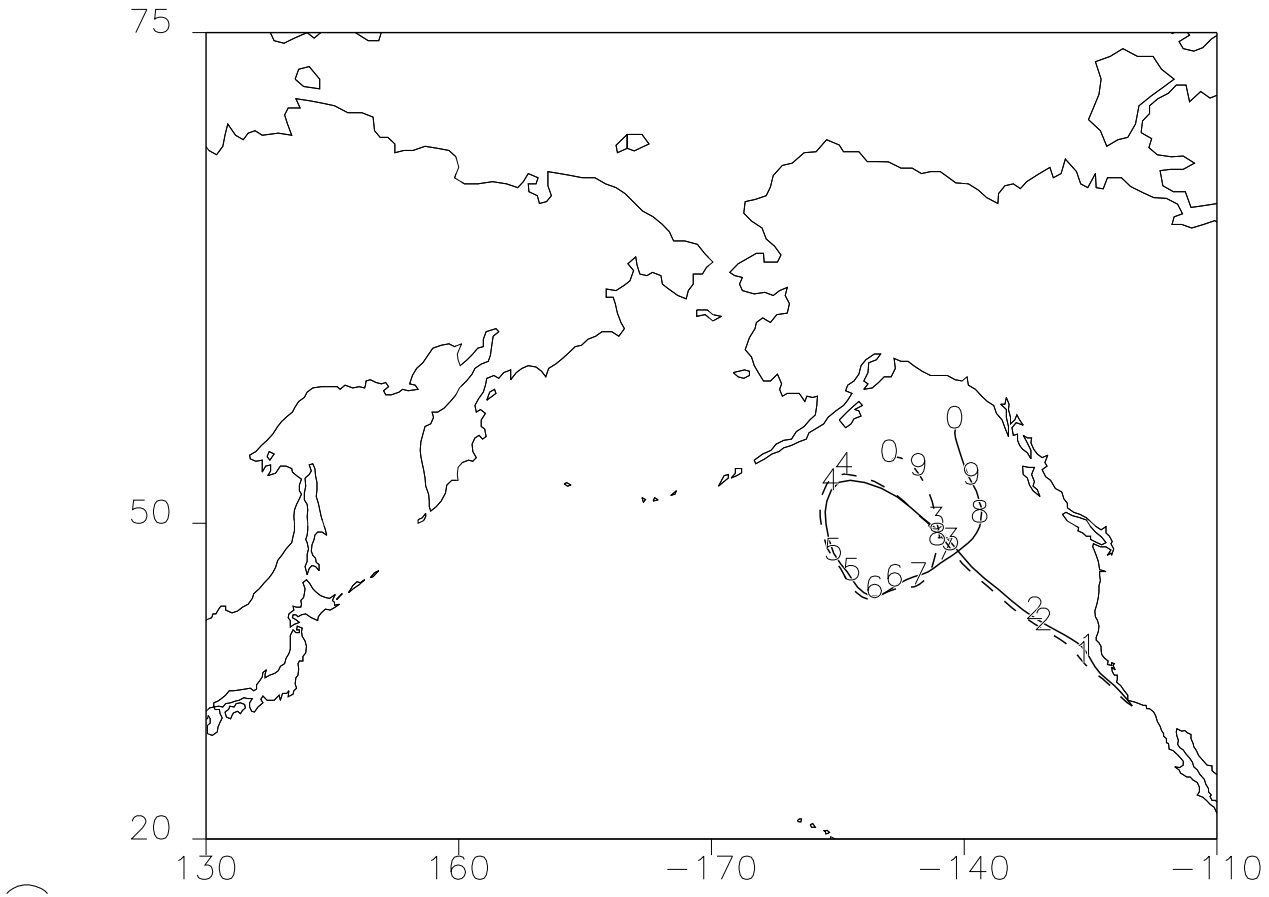
Day	km	hPa	C
0	0.3	979	14
1	0.2	1000	11
2	0.3	981	8
3	0.7	943	3
4	0.8	941	5
5	1.0	908	6
6	1.5	845	5
7	1.6	839	5
8	2.6	748	−1
9	3.6	653	−10
10	4.2	596	−15

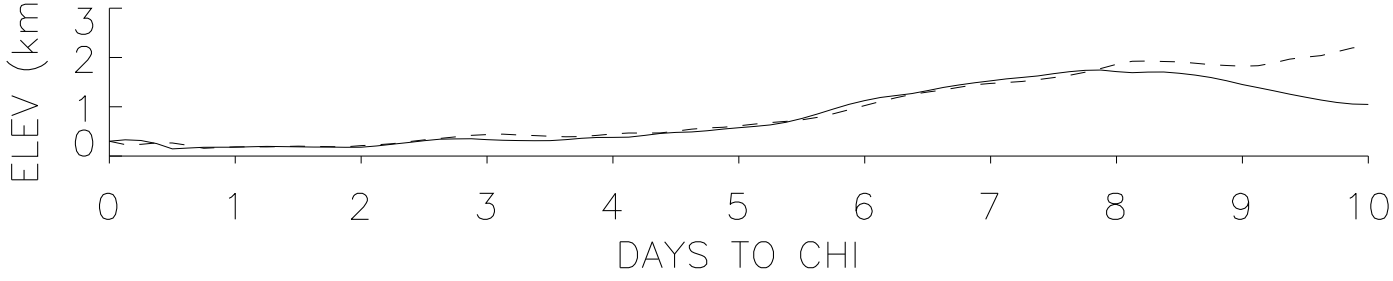
06UT

Day	km	hPa	C
0	0.3	979	13
1	0.2	1000	10
2	0.2	992	9
3	0.4	969	5
4	0.6	963	6
5	0.8	926	7
6	1.5	845	3
7	1.9	806	−2
8	2.2	779	−3
9	2.0	795	2
10	1.9	801	0

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/6/2003 (Day of Year 126)
NCEP/NCAR Reanalysis 1 Data Set





12UT

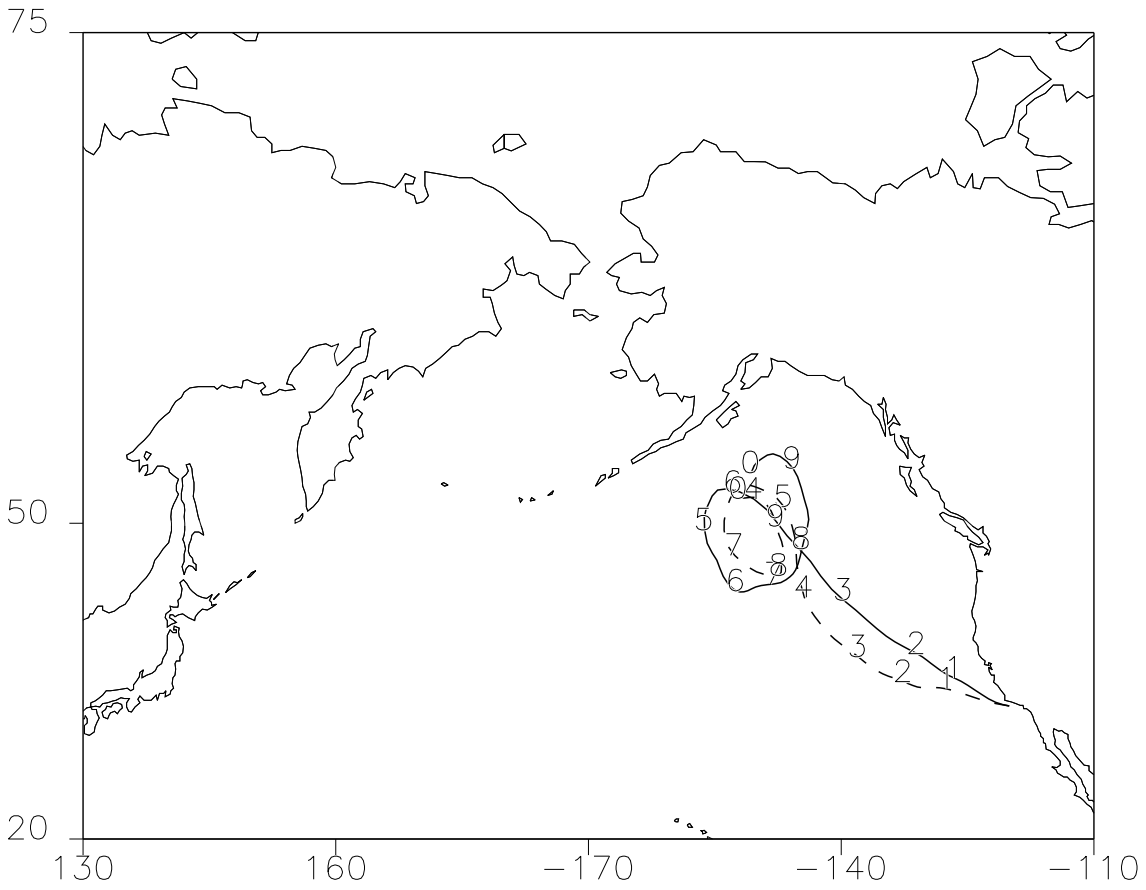
Day	km	hPa	C
0	0.3	978	12
1	0.2	1000	10
2	0.2	995	9
3	0.3	975	5
4	0.4	984	6
5	0.6	959	7
6	1.1	889	4
7	1.5	843	0
8	1.7	824	−1
9	1.5	851	3
10	1.0	894	8

18UT

Day	km	hPa	C
0	0.3	980	14
1	0.2	1000	11
2	0.2	997	10
3	0.4	962	5
4	0.4	973	6
5	0.6	956	7
6	1.0	904	5
7	1.5	849	2
8	1.9	811	1
9	1.8	816	1
10	2.2	775	−1

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/7/2003 (Day of Year 127)
NCEP/NCAR Reanalysis 1 Data Set

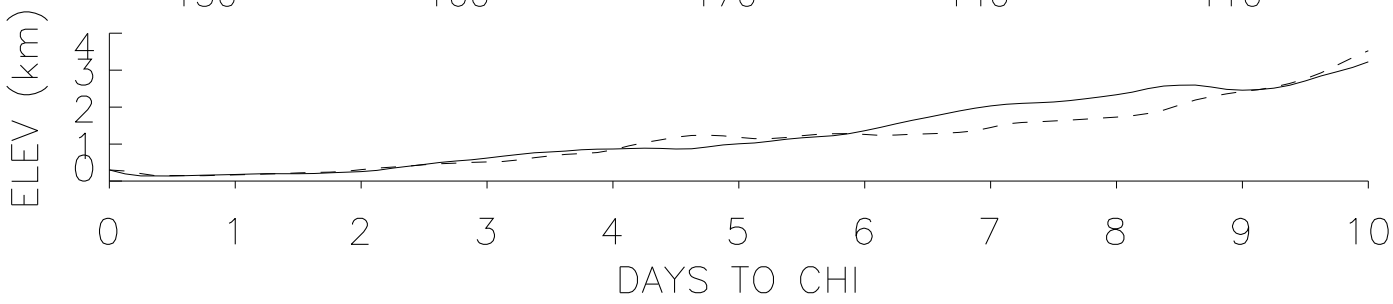


00UT

Day	km	hPa	C
0	0.3	979	13
1	0.2	1000	11
2	0.3	994	10
3	0.6	944	4
4	0.9	923	5
5	1.0	913	7
6	1.4	868	7
7	2.0	794	1
8	2.3	765	0
9	2.5	754	−1
10	3.2	684	−7

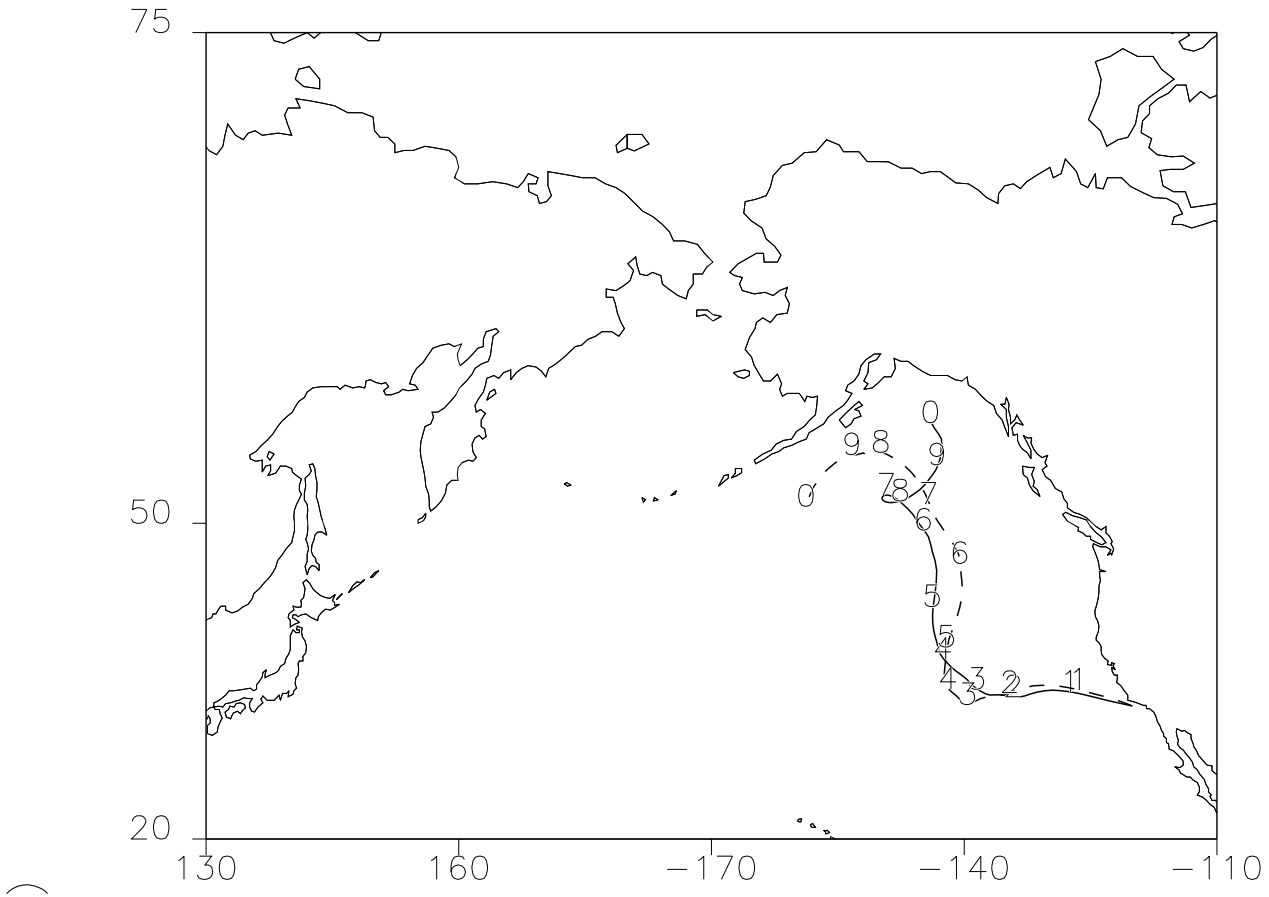
06UT

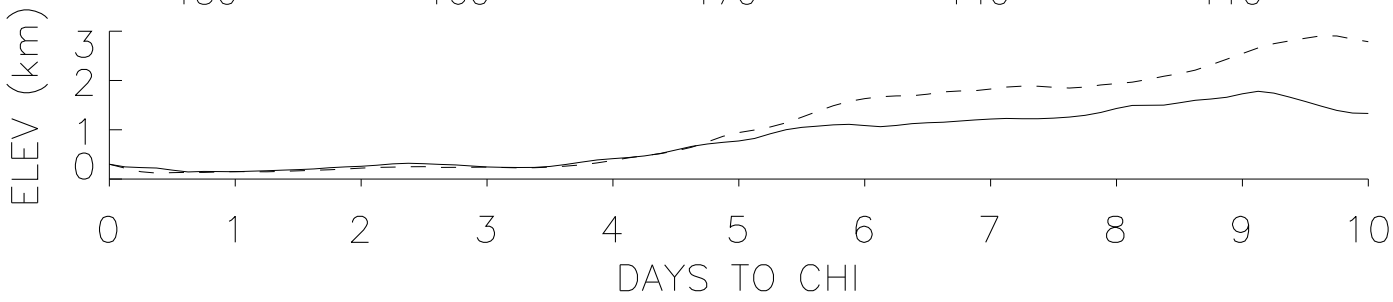
Day	km	hPa	C
0	0.3	978	12
1	0.2	1000	13
2	0.3	990	11
3	0.5	962	5
4	0.8	924	2
5	1.2	892	4
6	1.3	881	4
7	1.4	854	5
8	1.7	825	4
9	2.4	760	0
10	3.5	659	−10



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/7/2003 (Day of Year 127)
NCEP/NCAR Reanalysis 1 Data Set





12UT

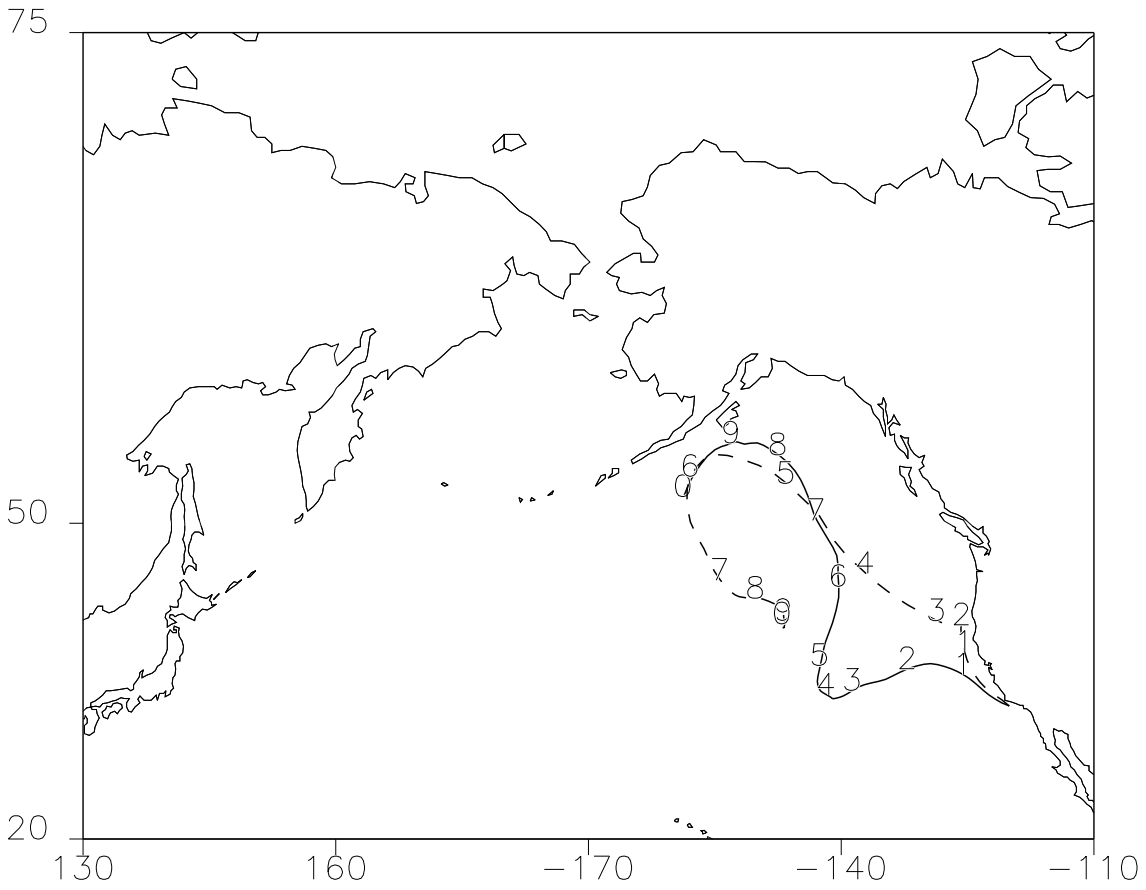
Day	km	hPa	C
0	0.3	978	12
1	0.1	1000	13
2	0.3	996	11
3	0.2	997	9
4	0.4	975	6
5	0.8	935	3
6	1.1	902	2
7	1.2	882	3
8	1.4	858	3
9	1.7	826	0
10	1.3	865	6

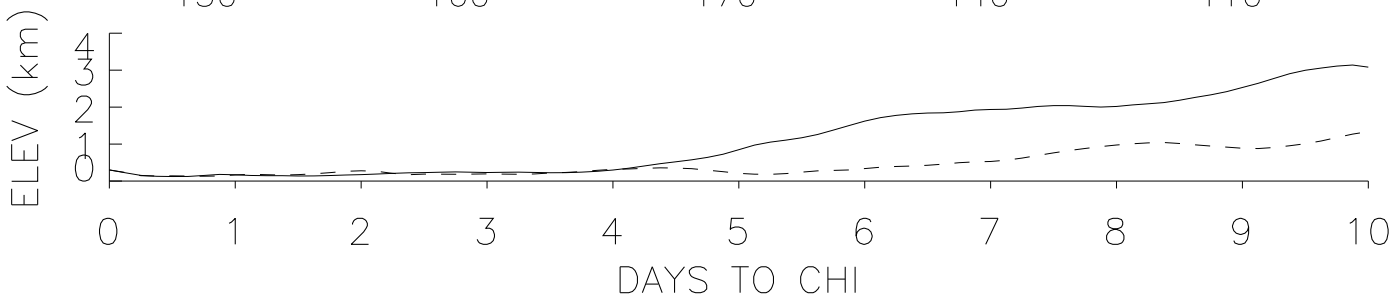
18UT

Day	km	hPa	C
0	0.3	979	14
1	0.2	1000	13
2	0.2	1000	13
3	0.2	1000	11
4	0.4	979	8
5	0.9	914	4
6	1.6	842	1
7	1.8	818	0
8	1.9	807	3
9	2.5	748	−2
10	2.8	725	−7

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/8/2003 (Day of Year 128)
NCEP/NCAR Reanalysis 1 Data Set





00UT

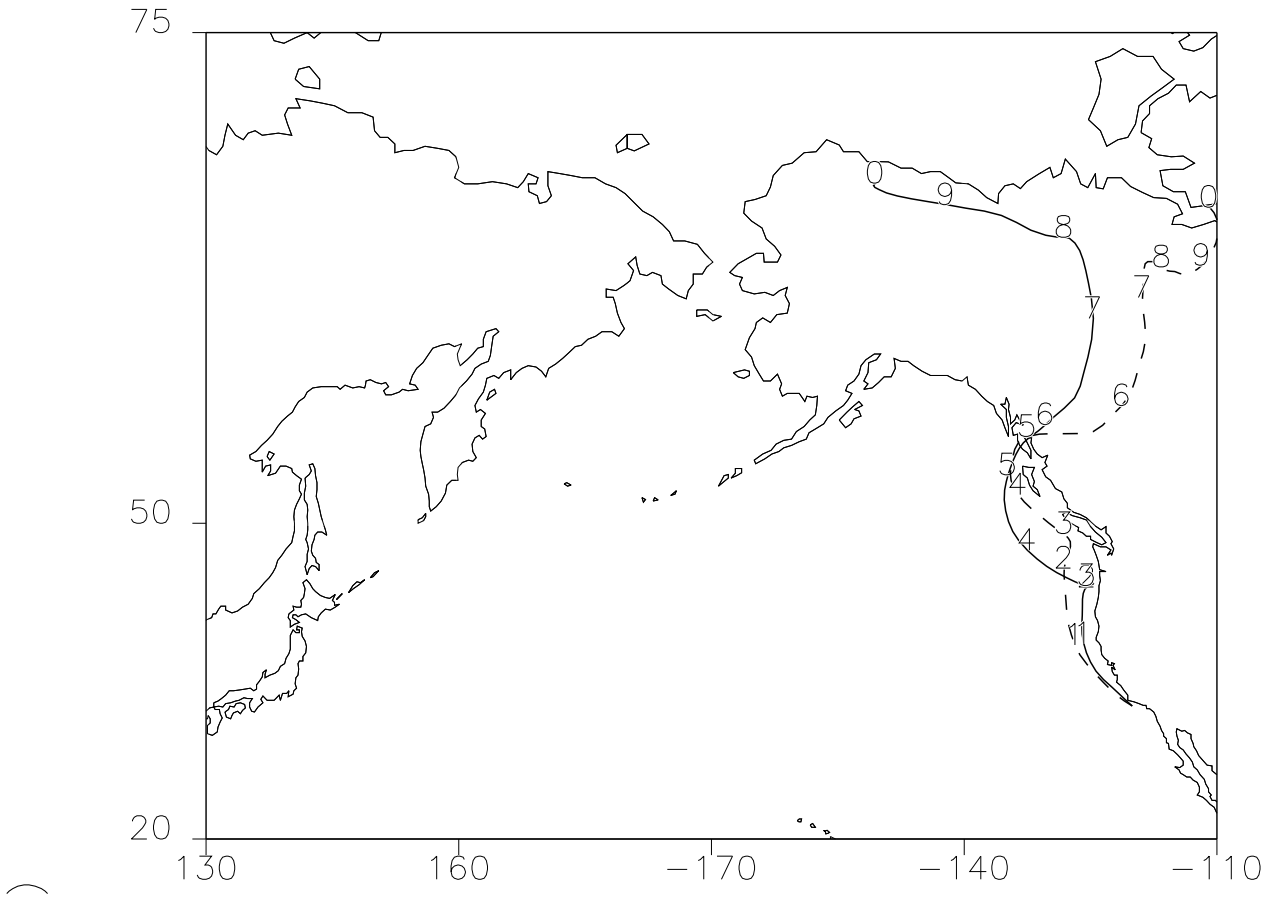
Day	km	hPa	C
0	0.3	979	13
1	0.2	995	12
2	0.2	1000	12
3	0.2	1000	11
4	0.3	990	10
5	0.8	924	4
6	1.6	843	3
7	1.9	809	0
8	2.0	798	2
9	2.5	750	−2
10	3.1	698	−8

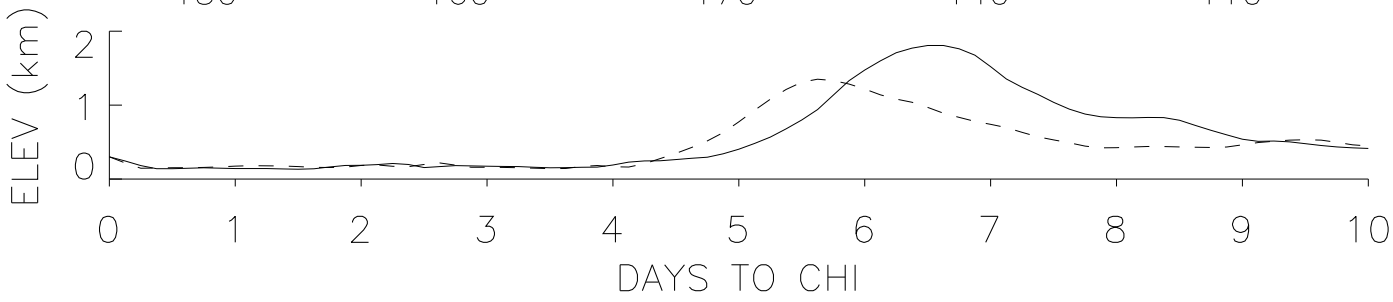
06UT

Day	km	hPa	C
0	0.3	980	12
1	0.2	995	11
2	0.3	984	10
3	0.2	1000	10
4	0.3	977	7
5	0.2	991	6
6	0.3	988	6
7	0.5	961	8
8	1.0	904	5
9	0.9	914	6
10	1.3	870	6

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/8/2003 (Day of Year 128)
NCEP/NCAR Reanalysis 1 Data Set





12UT

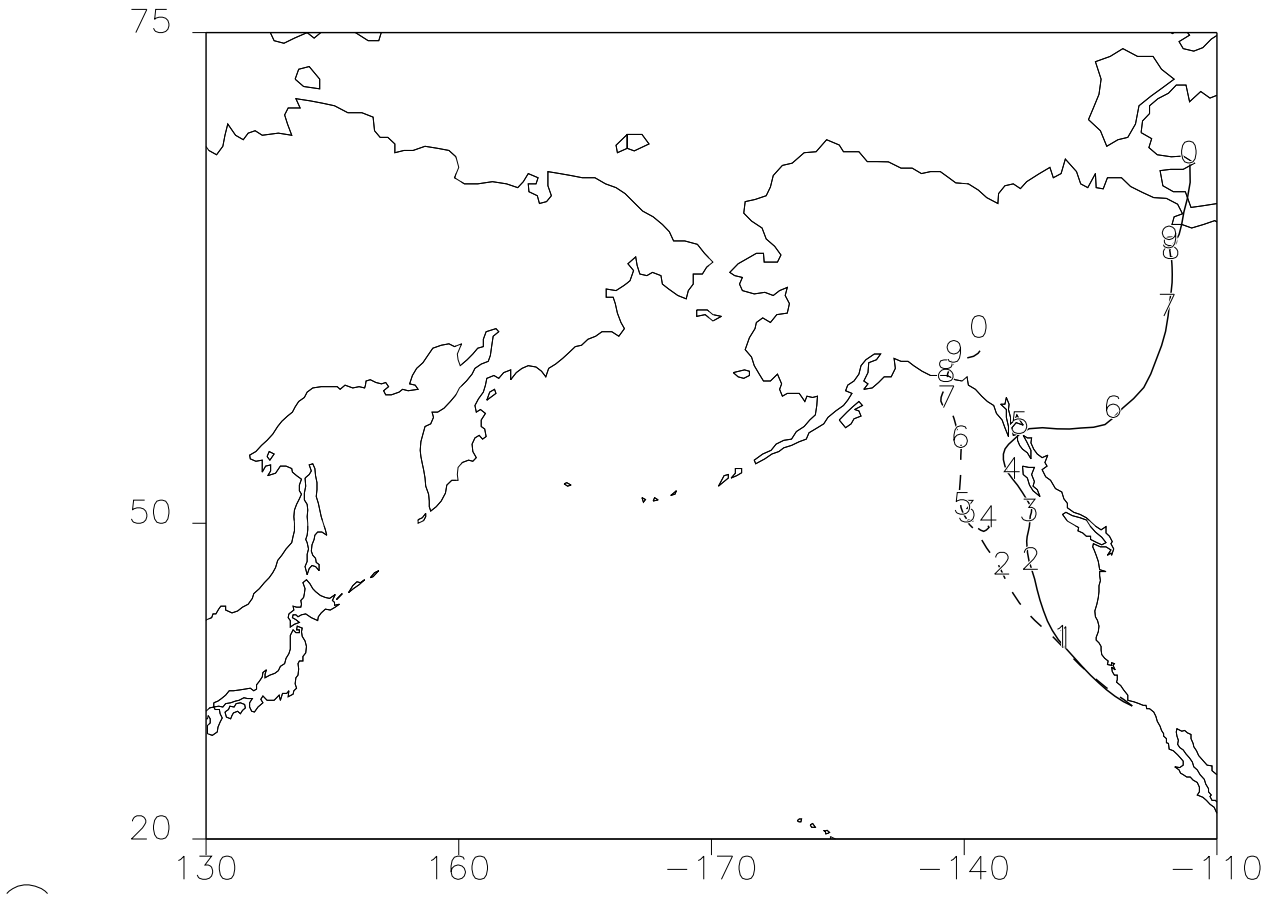
Day	km	hPa	C
0	0.3	981	11
1	0.1	1000	10
2	0.2	993	9
3	0.2	1000	9
4	0.2	988	8
5	0.4	957	4
6	1.5	849	−5
7	1.5	845	−11
8	0.8	920	−3
9	0.5	954	−1
10	0.4	970	−1

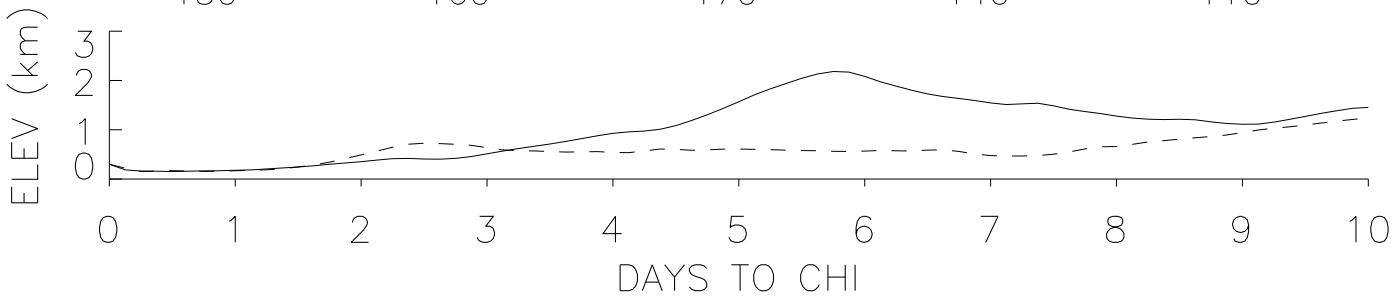
18UT

Day	km	hPa	C
0	0.3	982	12
1	0.2	1000	10
2	0.2	997	9
3	0.2	1000	8
4	0.2	993	6
5	0.8	917	−2
6	1.2	877	−9
7	0.7	933	−5
8	0.4	967	−2
9	0.5	961	−6
10	0.4	969	−6

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/9/2003 (Day of Year 129)
NCEP/NCAR Reanalysis 1 Data Set





00UT

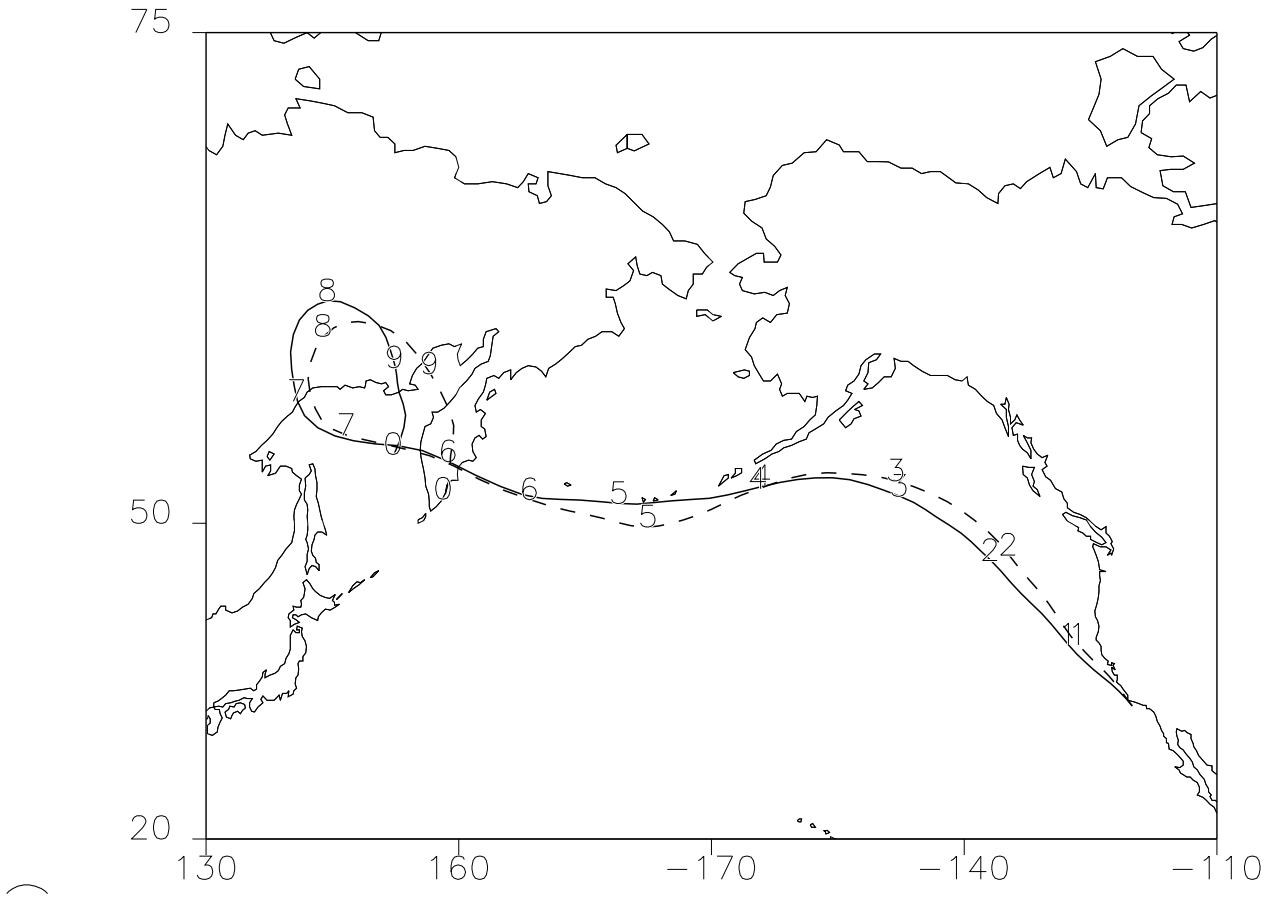
Day	km	hPa	C
0	0.3	981	12
1	0.2	1000	10
2	0.4	980	7
3	0.5	959	5
4	0.9	906	0
5	1.6	830	−6
6	2.1	782	−13
7	1.5	842	−12
8	1.3	867	−7
9	1.1	886	−6
10	1.5	850	−8

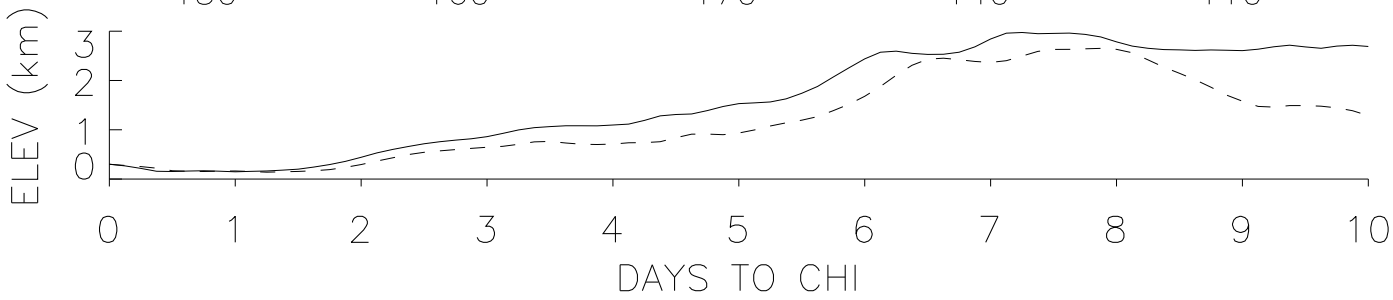
06UT

Day	km	hPa	C
0	0.3	982	11
1	0.2	1000	9
2	0.5	967	5
3	0.6	947	5
4	0.5	953	5
5	0.6	941	4
6	0.6	943	5
7	0.5	965	8
8	0.7	941	8
9	0.9	906	6
10	1.2	875	5

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/9/2003 (Day of Year 129)
NCEP/NCAR Reanalysis 1 Data Set





12UT

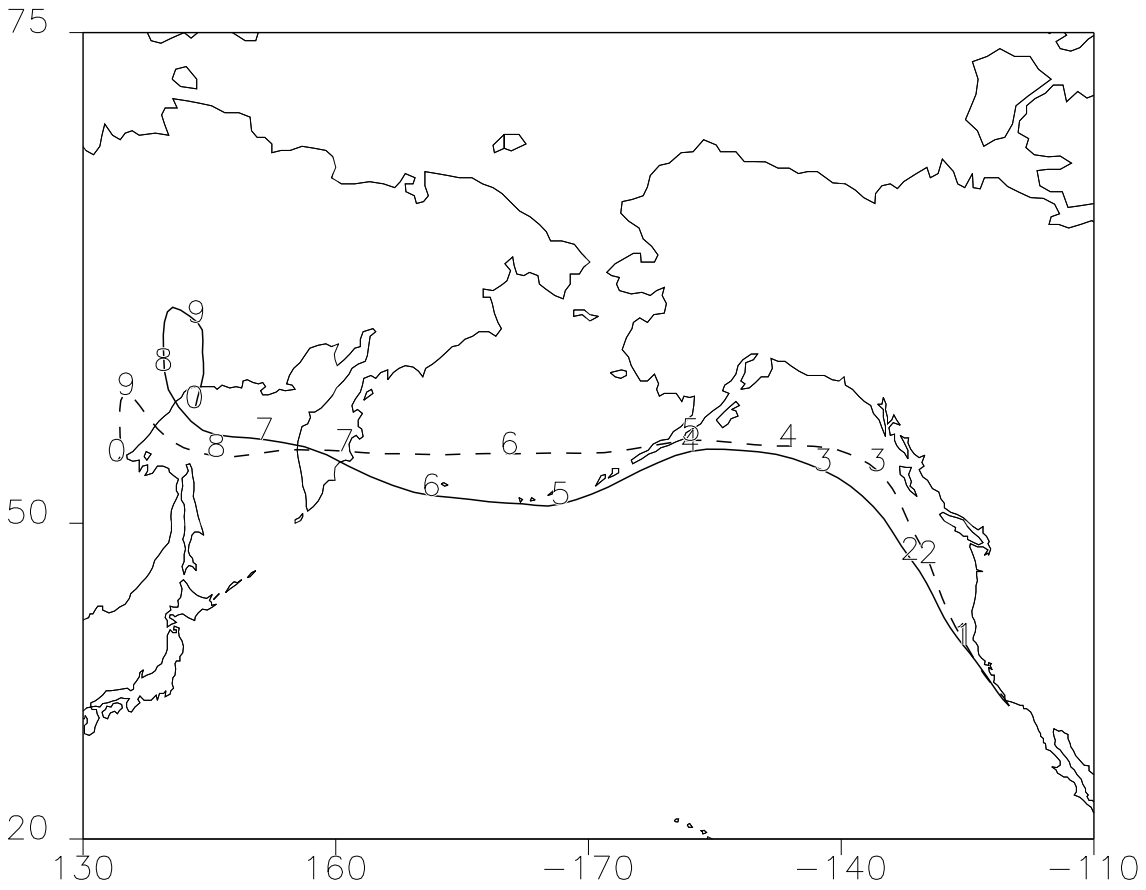
Day	km	hPa	C
0	0.3	983	10
1	0.1	1000	9
2	0.4	973	4
3	0.9	923	1
4	1.1	892	−1
5	1.5	840	−5
6	2.4	738	−15
7	2.8	690	−19
8	2.8	690	−20
9	2.6	719	−18
10	2.7	720	−17

18UT

Day	km	hPa	C
0	0.3	985	12
1	0.2	1000	9
2	0.3	987	6
3	0.6	947	2
4	0.7	938	2
5	0.9	909	0
6	1.7	819	−8
7	2.4	736	−16
8	2.6	699	−18
9	1.6	822	−7
10	1.3	867	0

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/10/2003 (Day of Year 130)
NCEP/NCAR Reanalysis 1 Data Set

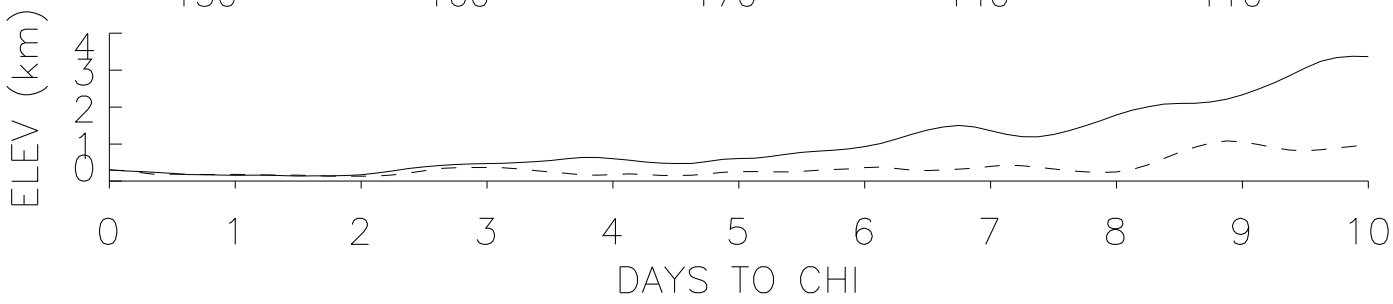


00UT

Day	km	hPa	C
0	0.3	982	13
1	0.2	1000	10
2	0.2	998	7
3	0.5	965	3
4	0.6	947	0
5	0.6	946	0
6	0.9	902	−4
7	1.4	842	−7
8	1.8	787	−14
9	2.3	738	−19
10	3.4	648	−28

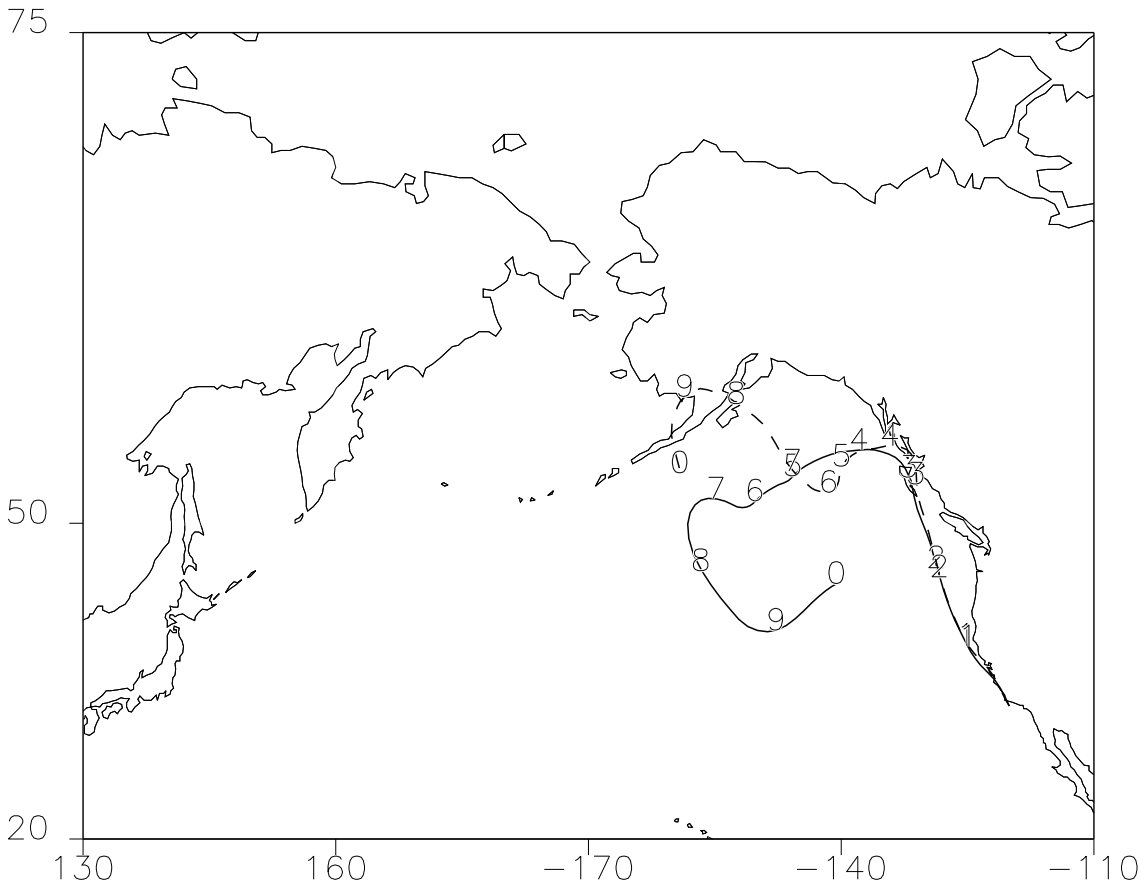
06UT

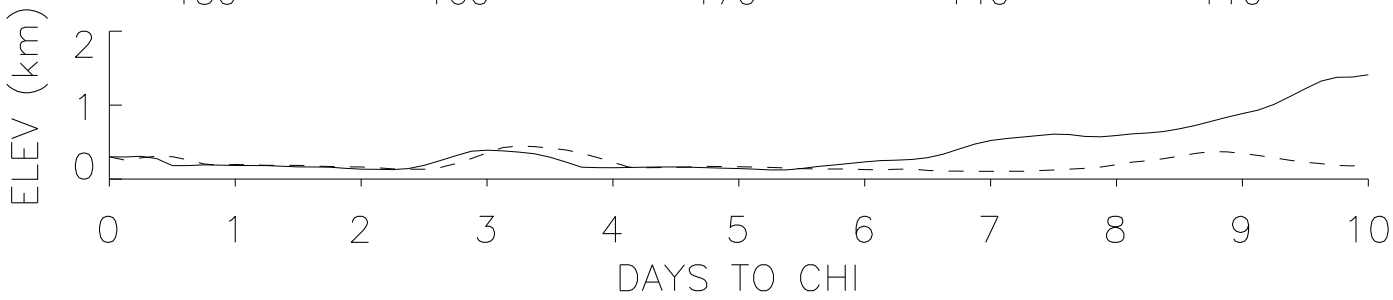
Day	km	hPa	C
0	0.3	982	12
1	0.2	1000	9
2	0.1	1000	8
3	0.4	973	4
4	0.2	998	5
5	0.3	982	3
6	0.4	960	0
7	0.4	953	−2
8	0.2	964	−3
9	1.1	866	−9
10	1.0	889	−7



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/10/2003 (Day of Year 130)
NCEP/NCAR Reanalysis 1 Data Set





12UT

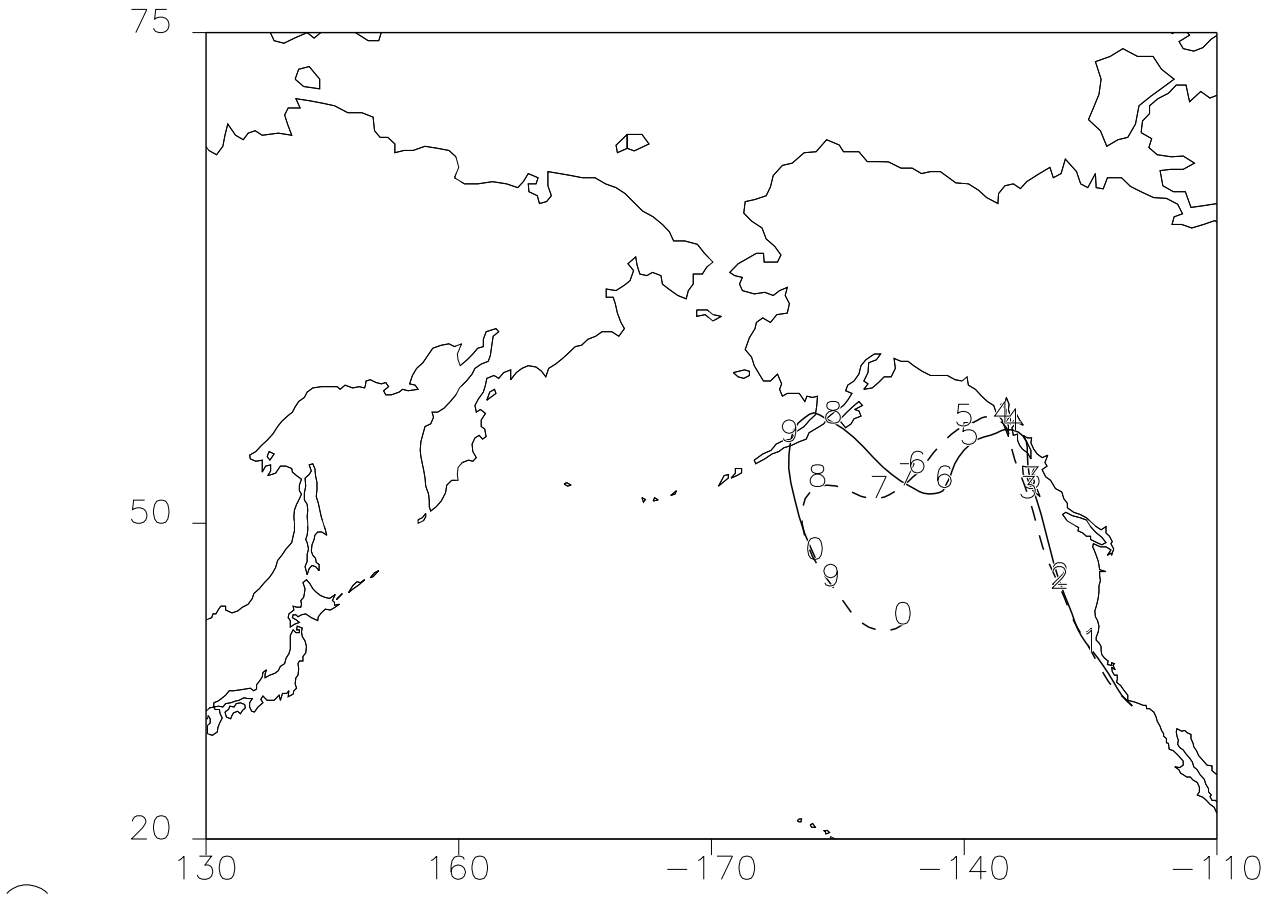
Day	km	hPa	C
0	0.3	983	10
1	0.2	1000	9
2	0.1	1000	8
3	0.4	969	3
4	0.2	1000	6
5	0.1	1000	6
6	0.2	985	4
7	0.5	959	4
8	0.6	958	7
9	0.9	923	7
10	1.4	855	−1

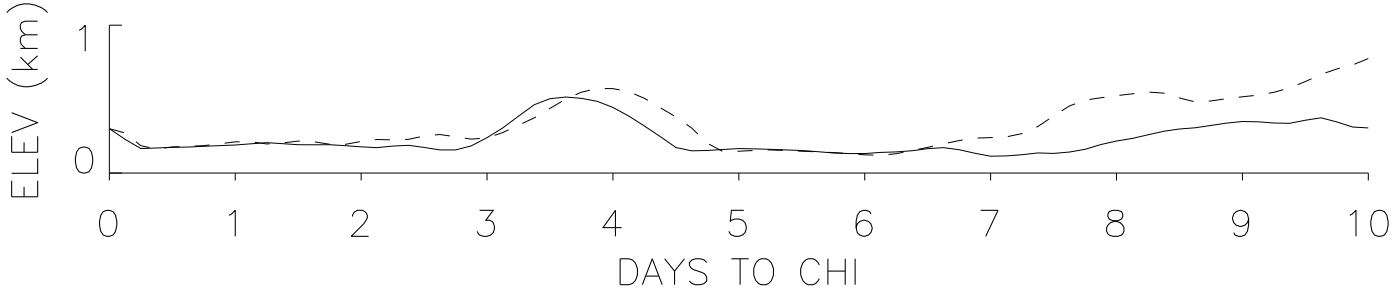
18UT

Day	km	hPa	C
0	0.3	984	15
1	0.2	1000	10
2	0.2	1000	9
3	0.4	971	5
4	0.2	991	6
5	0.2	1000	7
6	0.1	999	7
7	0.1	1000	7
8	0.2	998	6
9	0.3	983	4
10	0.2	998	4

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/11/2003 (Day of Year 131)
NCEP/NCAR Reanalysis 1 Data Set





00UT

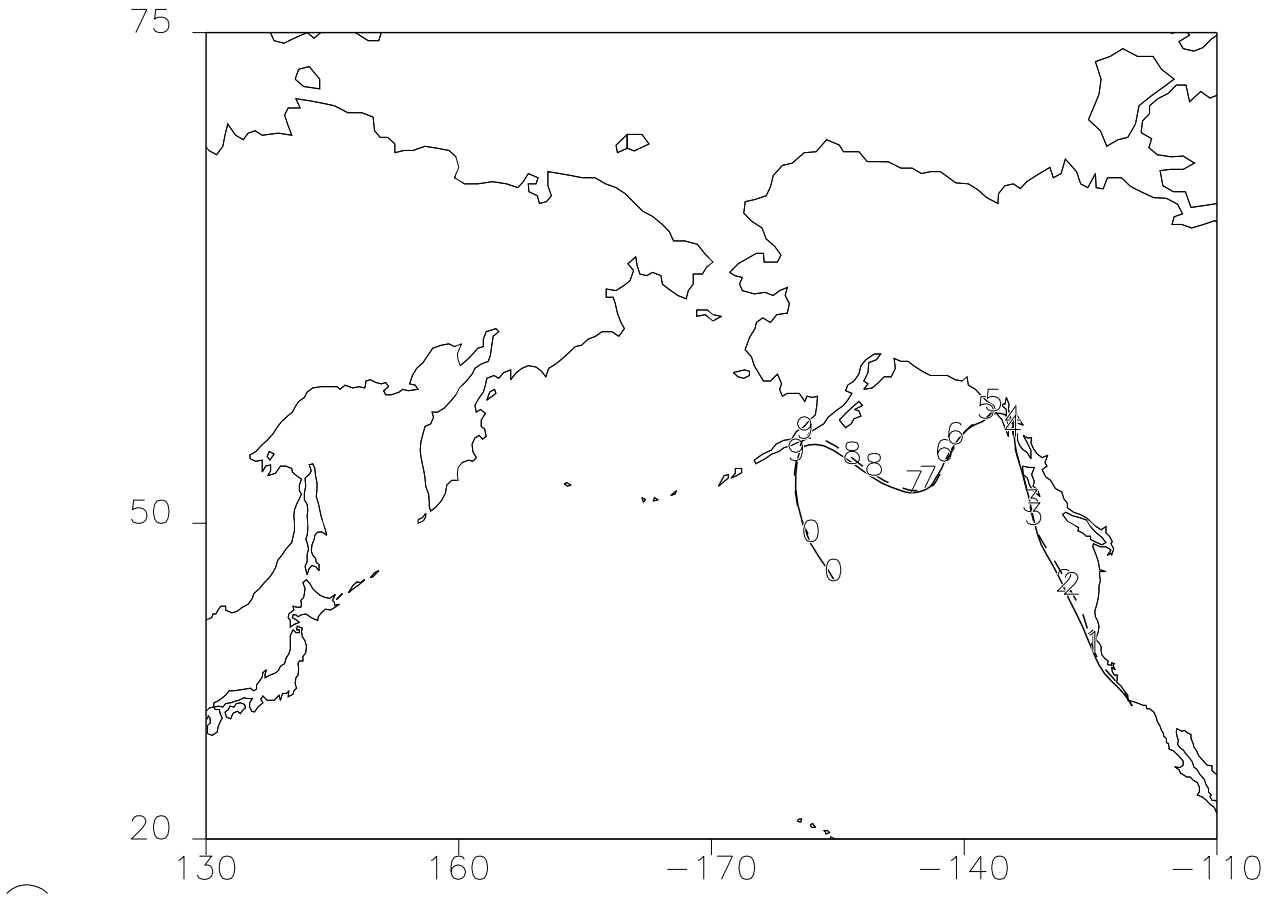
Day	km	hPa	C
0	0.3	981	15
1	0.2	1000	10
2	0.2	1000	8
3	0.2	988	7
4	0.4	963	5
5	0.2	1000	6
6	0.1	999	7
7	0.1	1000	7
8	0.2	995	8
9	0.3	984	6
10	0.3	985	8

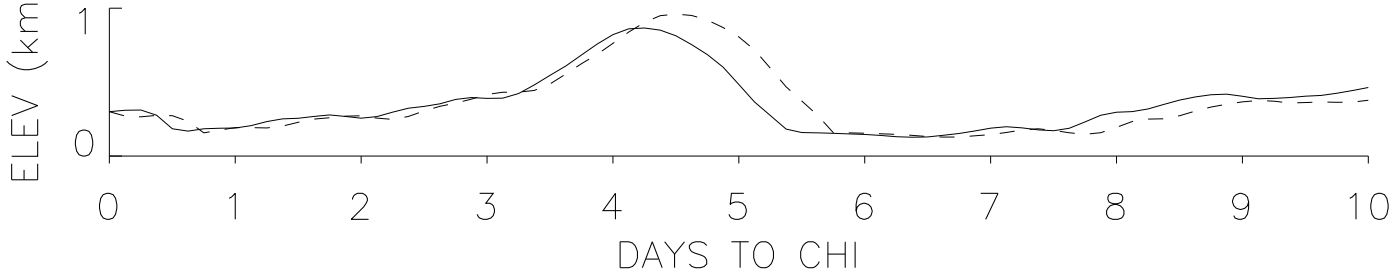
06UT

Day	km	hPa	C
0	0.3	982	14
1	0.2	998	10
2	0.2	997	9
3	0.2	990	6
4	0.6	948	3
5	0.1	1000	5
6	0.1	1000	6
7	0.2	985	4
8	0.5	961	5
9	0.5	967	8
10	0.8	932	7

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/11/2003 (Day of Year 131)
NCEP/NCAR Reanalysis 1 Data Set





12UT

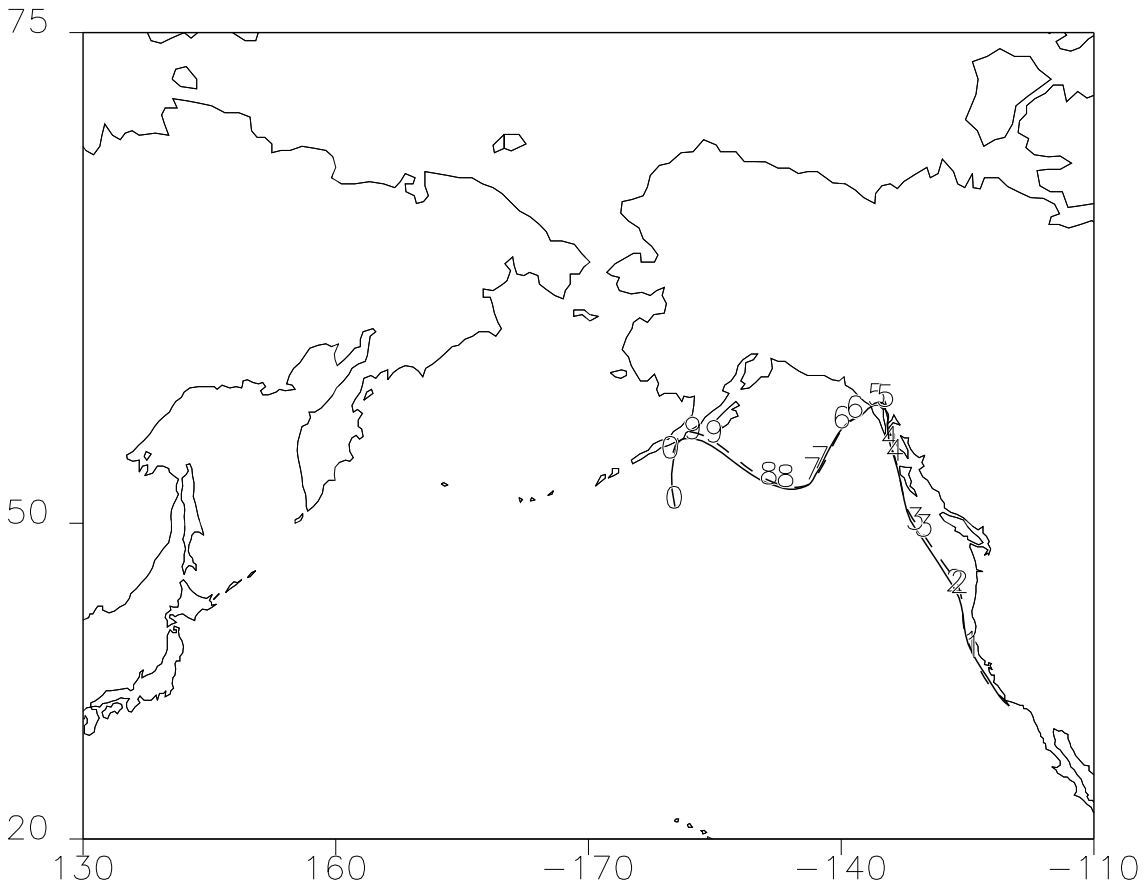
Day	km	hPa	C
0	0.3	980	13
1	0.2	1000	9
2	0.3	992	8
3	0.4	972	6
4	0.8	920	0
5	0.5	959	3
6	0.1	1000	6
7	0.2	991	5
8	0.3	982	6
9	0.4	979	6
10	0.5	971	8

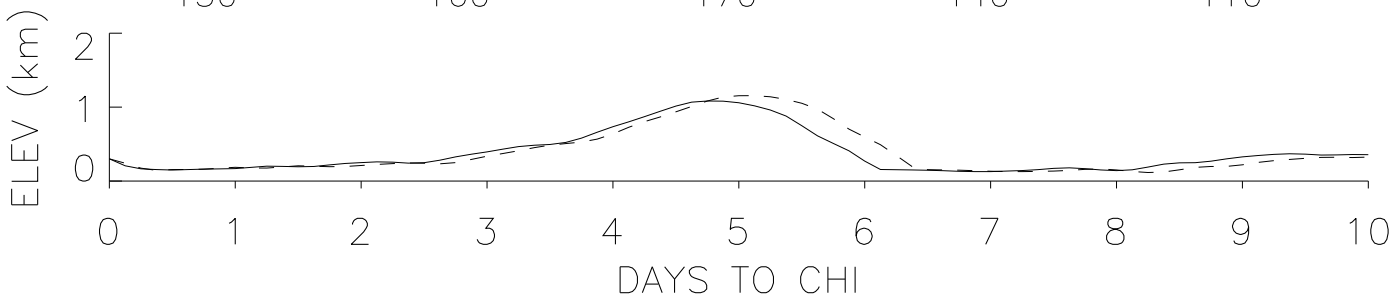
18UT

Day	km	hPa	C
0	0.3	981	16
1	0.2	1000	12
2	0.3	992	9
3	0.4	971	7
4	0.8	927	3
5	0.8	921	1
6	0.2	1000	6
7	0.1	996	6
8	0.2	992	6
9	0.4	981	5
10	0.4	982	7

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/12/2003 (Day of Year 132)
NCEP/NCAR Reanalysis 1 Data Set





00UT

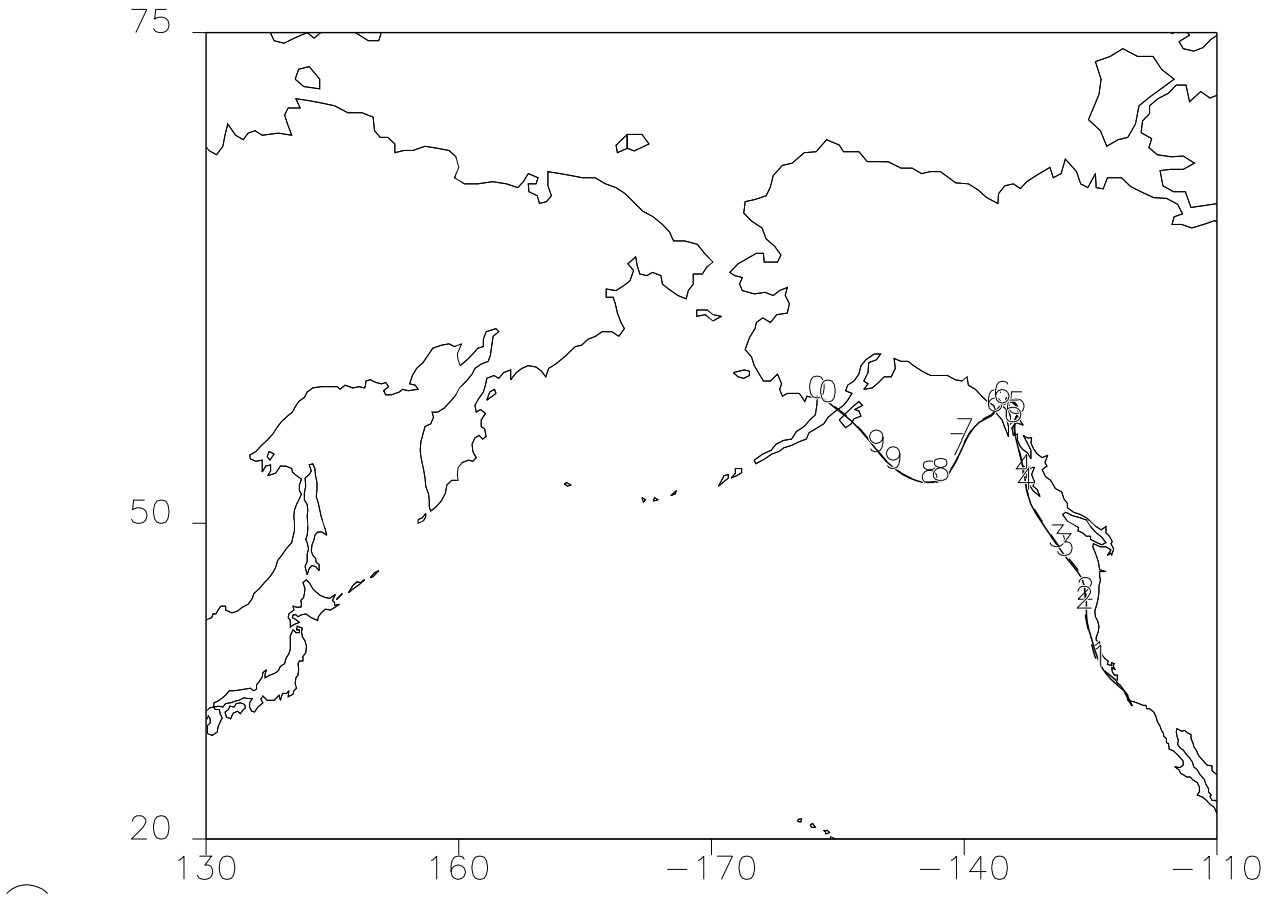
Day	km	hPa	C
0	0.3	979	17
1	0.2	1000	12
2	0.2	994	9
3	0.4	974	8
4	0.7	932	5
5	1.1	892	1
6	0.3	986	5
7	0.1	1000	7
8	0.1	997	7
9	0.3	984	7
10	0.4	985	7

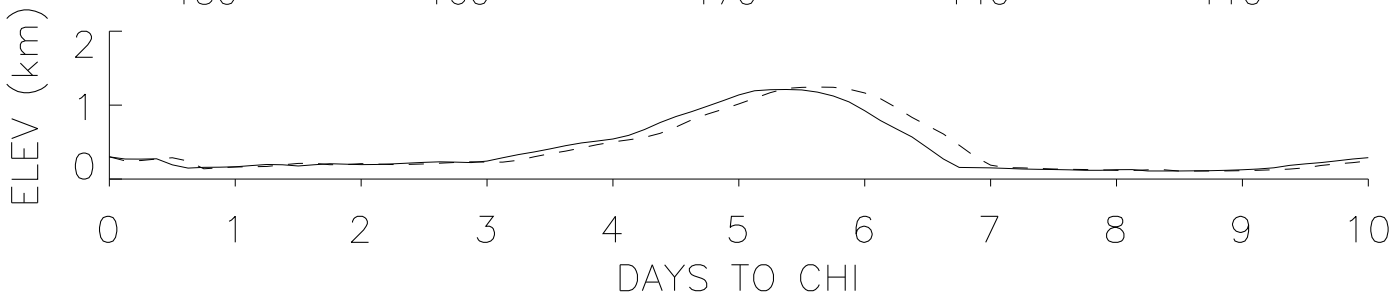
06UT

Day	km	hPa	C
0	0.3	980	14
1	0.2	998	11
2	0.2	999	10
3	0.3	981	7
4	0.6	943	4
5	1.2	881	−1
6	0.6	946	2
7	0.1	1000	6
8	0.2	995	6
9	0.2	993	6
10	0.3	988	6

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/12/2003 (Day of Year 132)
NCEP/NCAR Reanalysis 1 Data Set





12UT

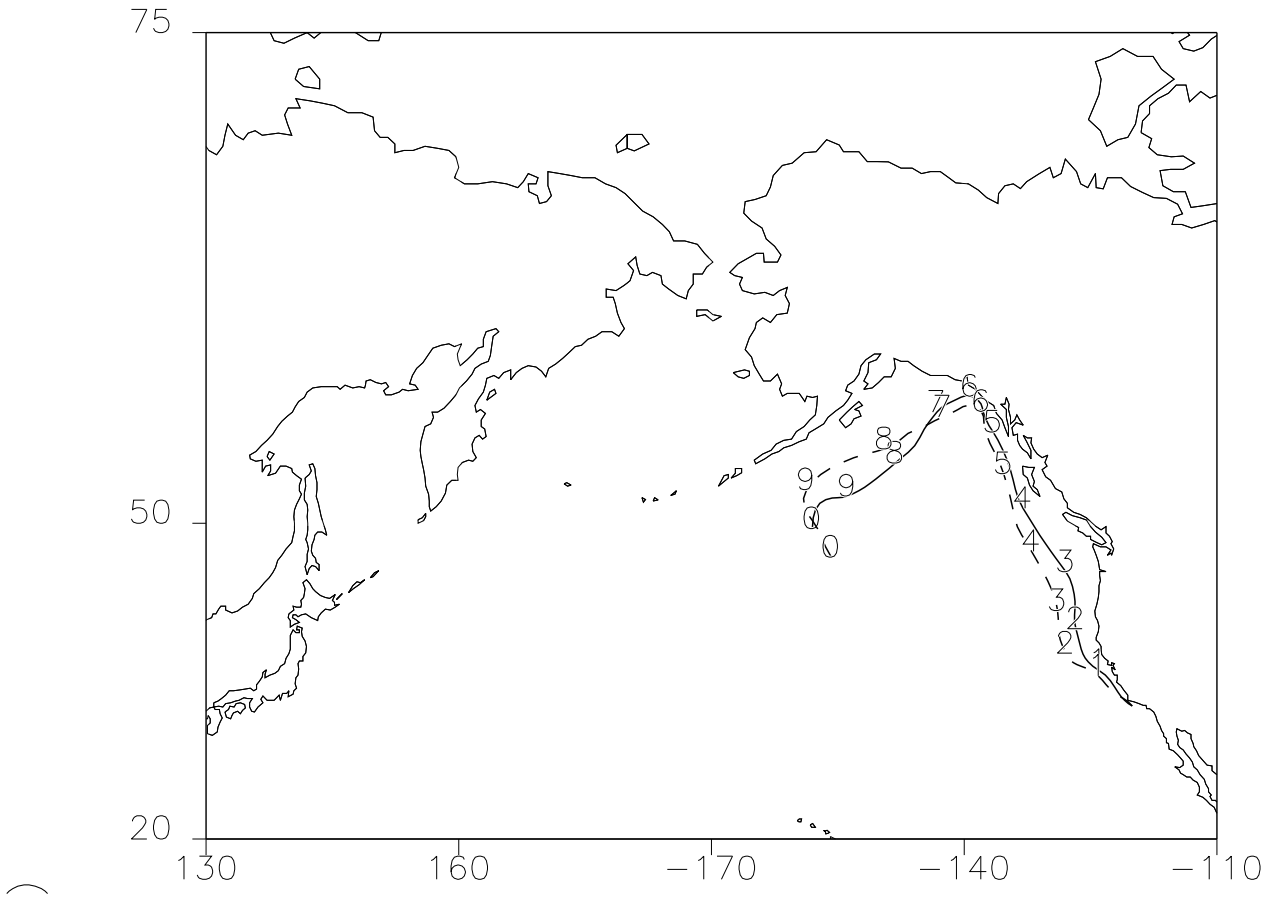
Day	km	hPa	C
0	0.3	979	14
1	0.2	1000	11
2	0.2	1000	8
3	0.2	992	7
4	0.5	955	5
5	1.1	884	−1
6	0.9	908	−1
7	0.2	1000	6
8	0.1	998	7
9	0.1	1000	7
10	0.3	991	6

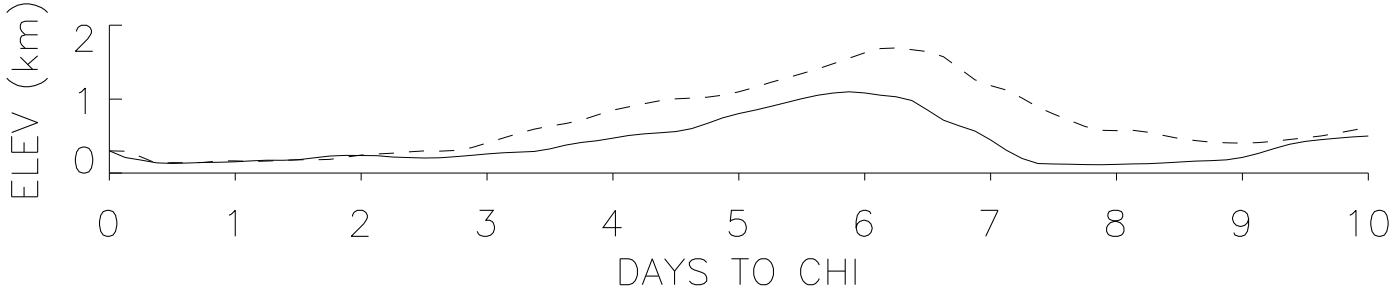
18UT

Day	km	hPa	C
0	0.3	980	17
1	0.2	1000	13
2	0.2	1000	10
3	0.2	995	9
4	0.5	961	6
5	1.0	899	2
6	1.2	880	−1
7	0.2	996	6
8	0.1	1000	7
9	0.1	1000	7
10	0.2	994	5

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/13/2003 (Day of Year 133)
NCEP/NCAR Reanalysis 1 Data Set





00UT

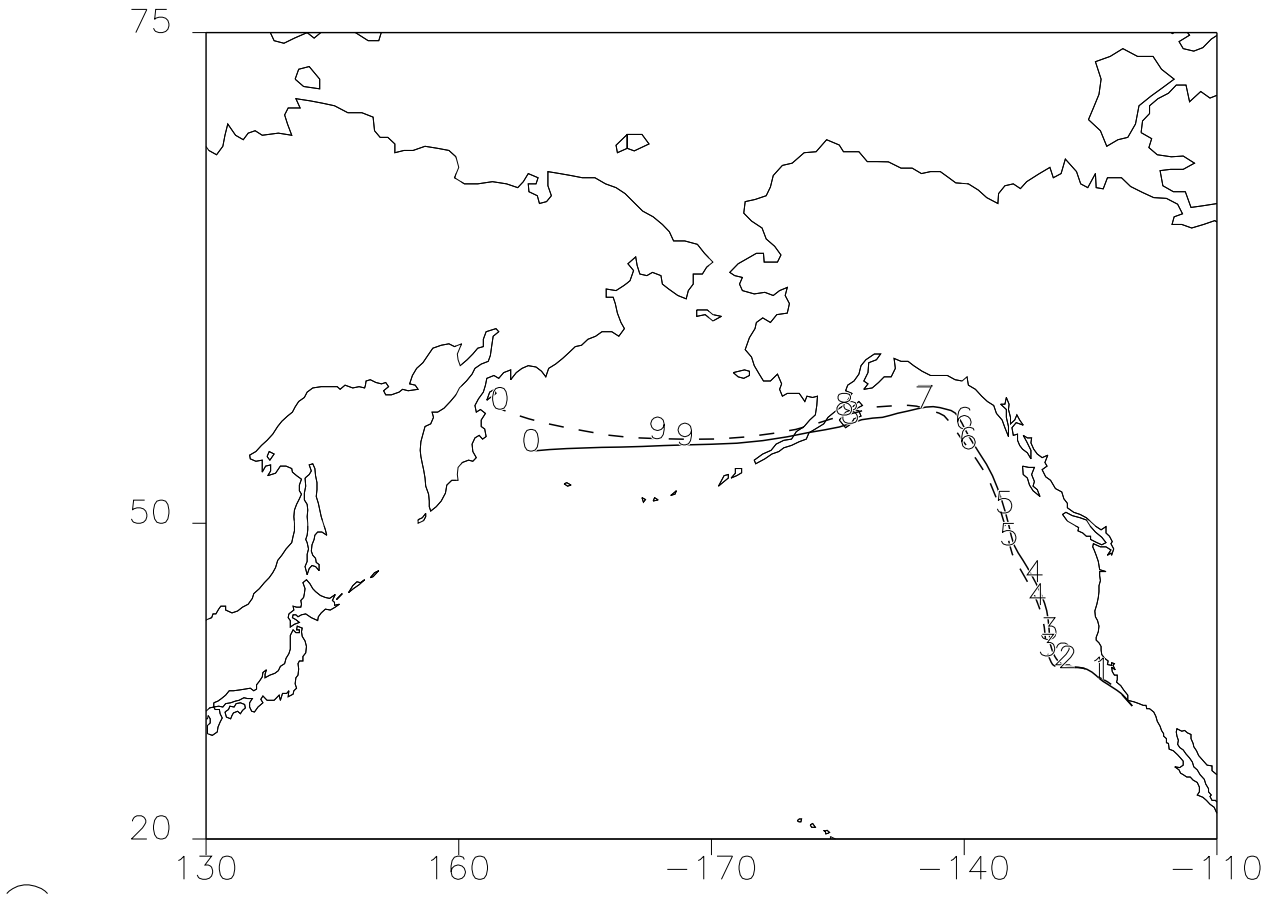
Day	km	hPa	C
0	0.3	979	18
1	0.2	1000	14
2	0.2	995	9
3	0.3	993	9
4	0.5	965	7
5	0.8	925	4
6	1.1	890	0
7	0.4	963	3
8	0.1	999	5
9	0.2	990	5
10	0.5	967	6

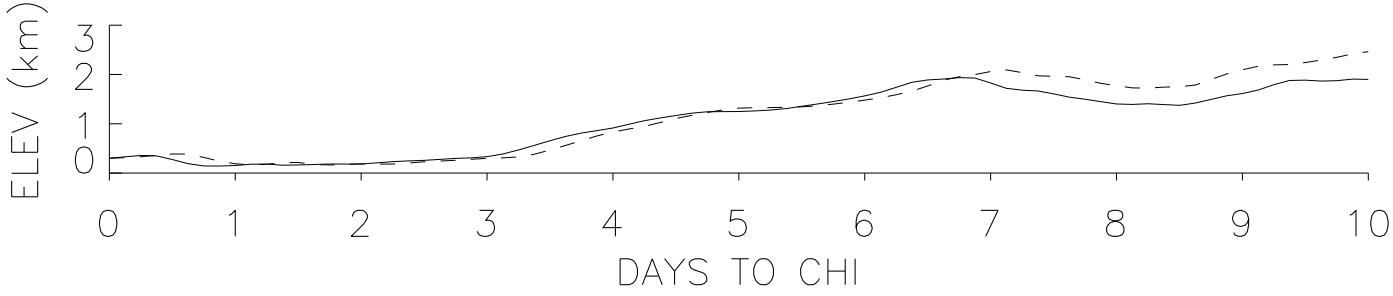
06UT

Day	km	hPa	C
0	0.3	979	15
1	0.2	998	12
2	0.2	995	9
3	0.4	978	7
4	0.9	923	3
5	1.1	892	2
6	1.6	831	−5
7	1.2	878	−3
8	0.6	944	2
9	0.4	962	3
10	0.6	951	5

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/13/2003 (Day of Year 133)
NCEP/NCAR Reanalysis 1 Data Set





12UT

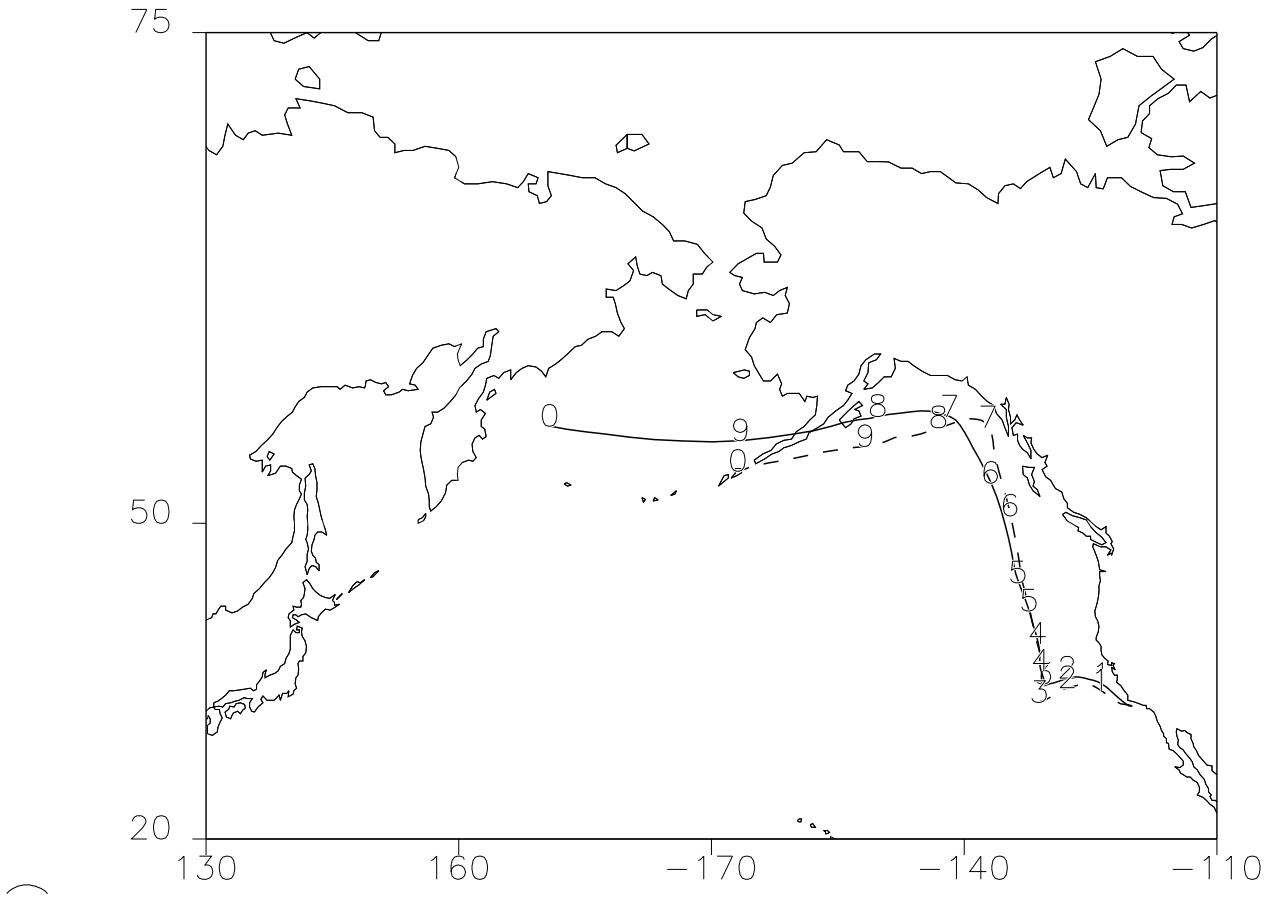
Day	km	hPa	C
0	0.3	979	13
1	0.2	999	12
2	0.2	1000	11
3	0.3	986	7
4	0.9	917	2
5	1.2	877	1
6	1.6	840	−4
7	1.8	809	−7
8	1.4	851	−4
9	1.6	820	−8
10	1.9	784	−14

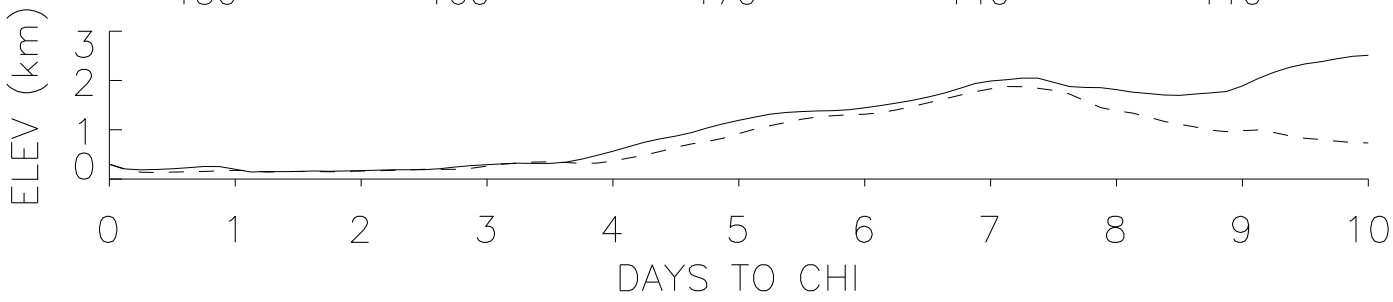
18UT

Day	km	hPa	C
0	0.3	981	18
1	0.2	995	15
2	0.2	1000	10
3	0.3	992	8
4	0.8	929	3
5	1.3	872	0
6	1.5	851	−3
7	2.1	786	−9
8	1.8	813	−8
9	2.1	771	−11
10	2.5	728	−15

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/14/2003 (Day of Year 134)
NCEP/NCAR Reanalysis 1 Data Set





00UT

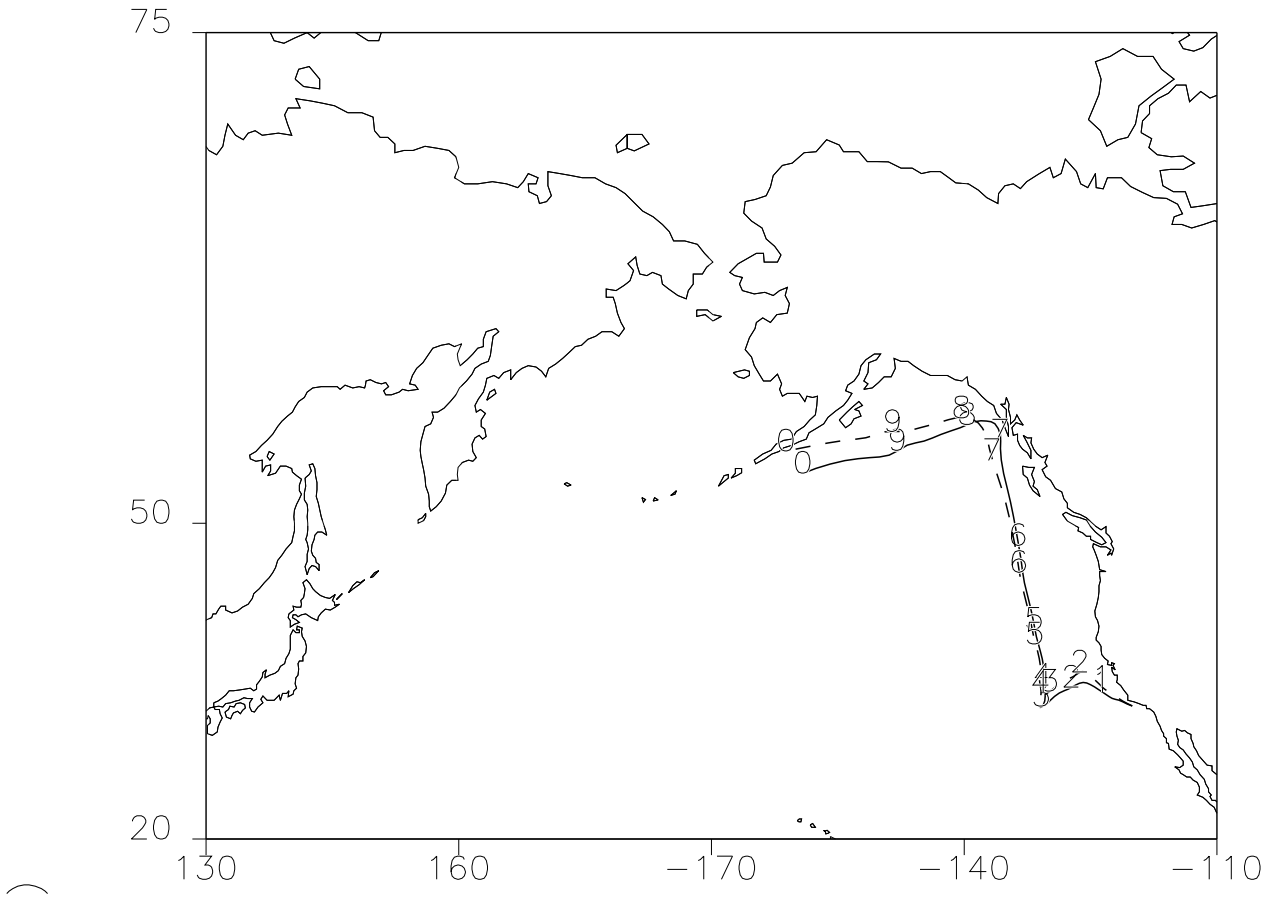
Day	km	hPa	C
0	0.3	979	18
1	0.2	992	15
2	0.2	1000	10
3	0.3	991	9
4	0.6	960	5
5	1.2	887	1
6	1.4	856	−1
7	2.0	794	−8
8	1.8	810	−8
9	1.9	794	−11
10	2.5	726	−16

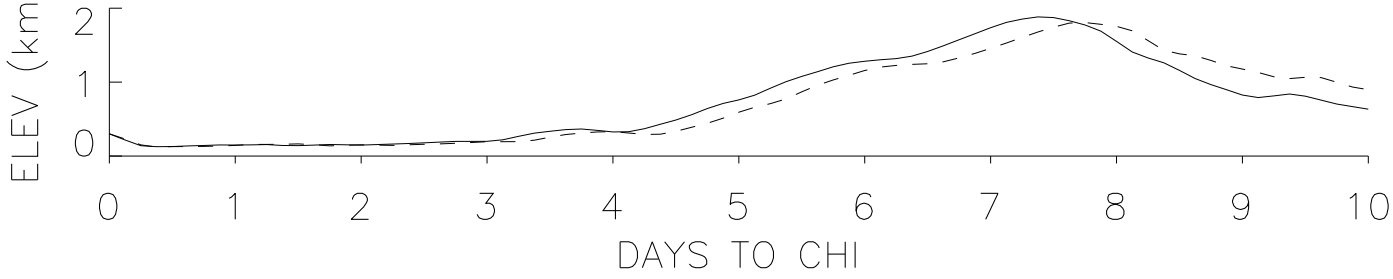
06UT

Day	km	hPa	C
0	0.3	979	15
1	0.2	995	13
2	0.2	1000	11
3	0.3	994	11
4	0.4	984	8
5	0.9	918	3
6	1.3	869	1
7	1.8	809	−7
8	1.4	857	−4
9	1.0	897	0
10	0.7	919	3

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/14/2003 (Day of Year 134)
NCEP/NCAR Reanalysis 1 Data Set





12UT

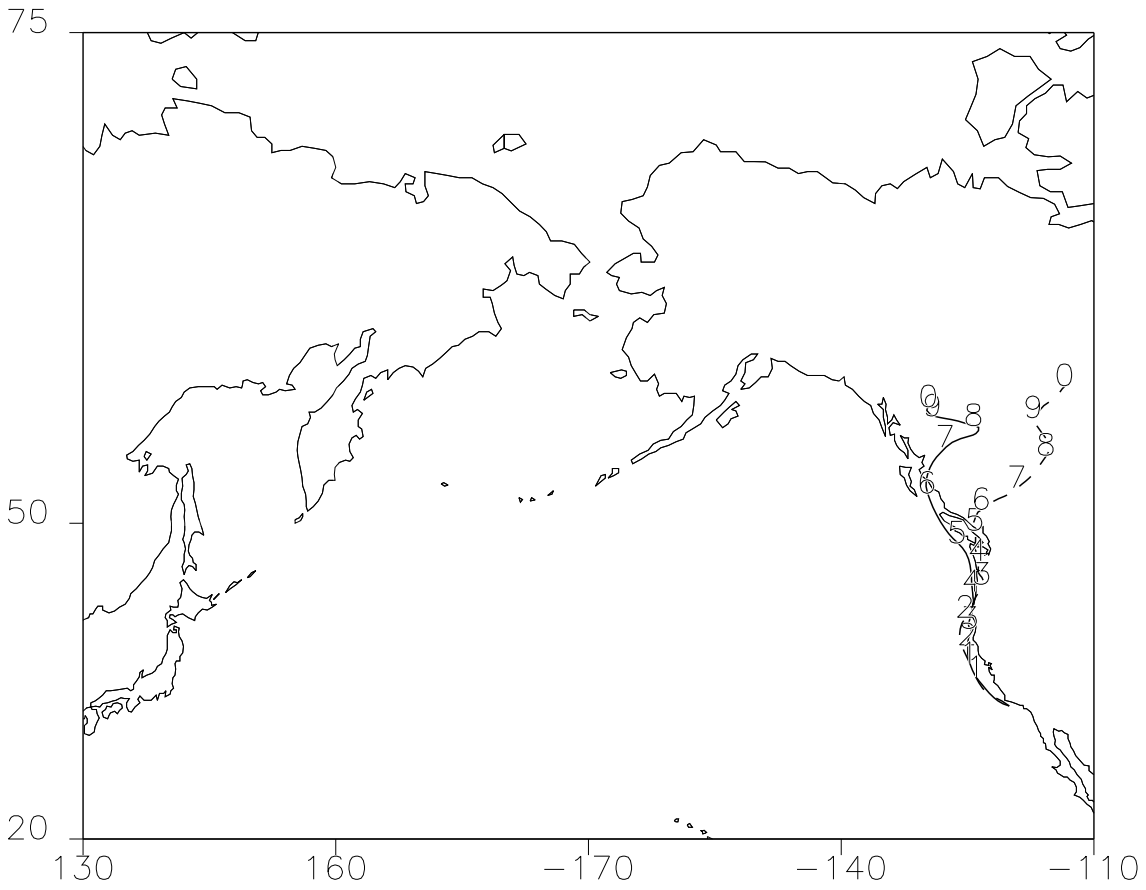
Day	km	hPa	C
0	0.3	978	12
1	0.1	998	12
2	0.1	1000	12
3	0.2	1000	12
4	0.3	988	9
5	0.8	936	3
6	1.3	873	1
7	1.7	820	−5
8	1.6	839	−5
9	0.8	917	2
10	0.6	933	4

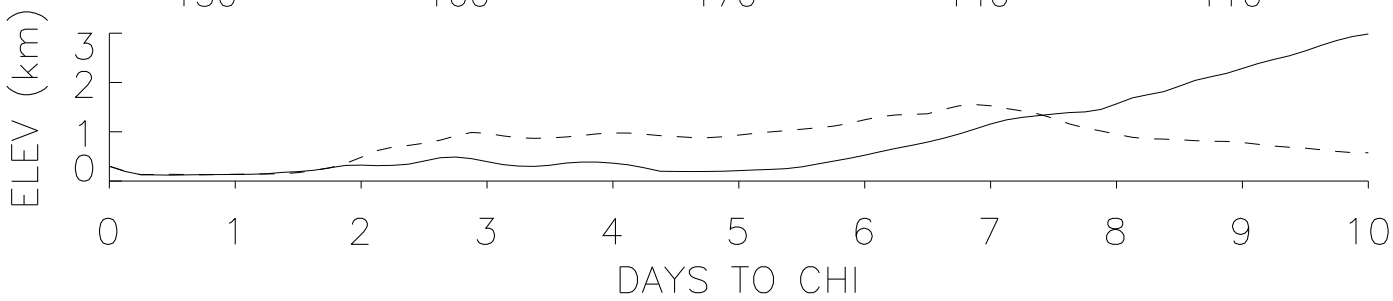
18UT

Day	km	hPa	C
0	0.3	979	15
1	0.1	1000	15
2	0.2	1000	13
3	0.2	1000	12
4	0.3	989	10
5	0.6	957	6
6	1.2	890	1
7	1.5	852	−2
8	1.8	817	−6
9	1.2	879	−1
10	0.9	900	1

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/15/2003 (Day of Year 135)
NCEP/NCAR Reanalysis 1 Data Set





00UT

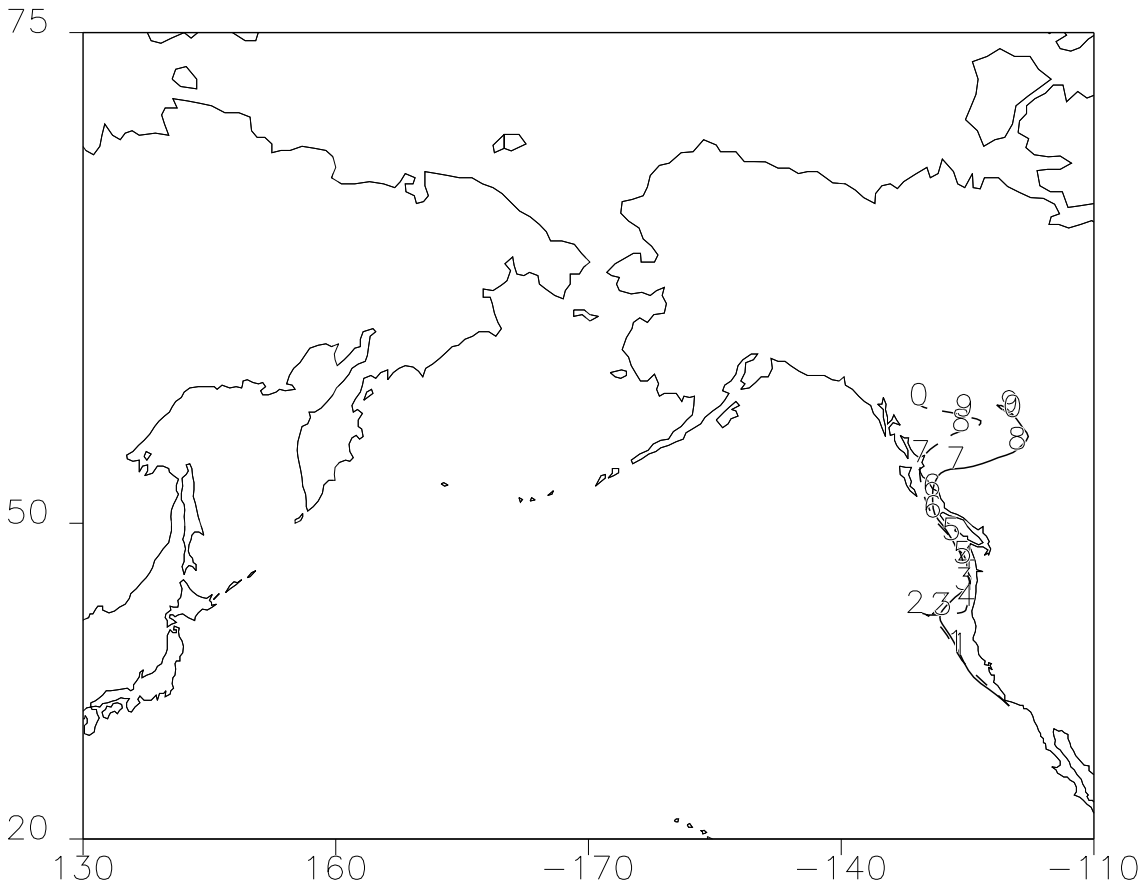
Day	km	hPa	C
0	0.3	978	13
1	0.1	1000	15
2	0.3	979	14
3	0.4	972	11
4	0.4	978	10
5	0.2	997	11
6	0.5	957	9
7	1.2	882	3
8	1.6	837	−2
9	2.3	766	−10
10	3.0	694	−18

06UT

Day	km	hPa	C
0	0.3	980	12
1	0.1	1000	12
2	0.5	960	10
3	1.0	906	7
4	1.0	907	6
5	0.9	914	7
6	1.2	876	4
7	1.5	840	−1
8	0.9	901	1
9	0.8	925	−3
10	0.6	955	−6

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/15/2003 (Day of Year 135)
NCEP/NCAR Reanalysis 1 Data Set

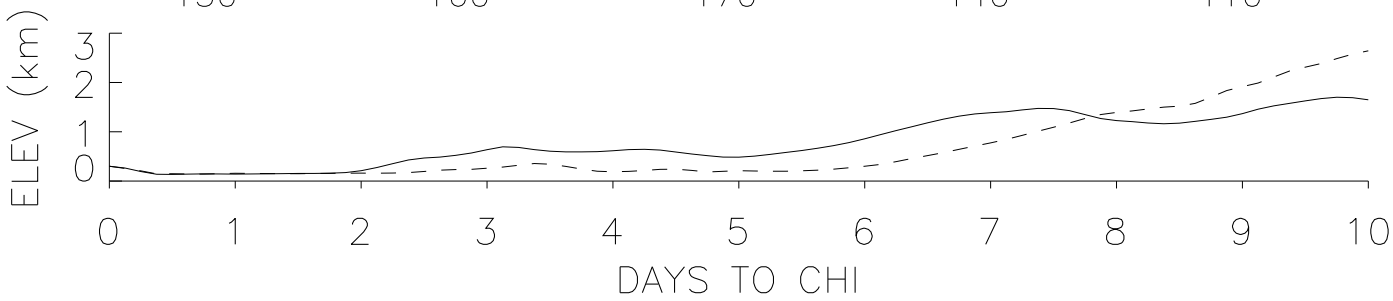


12UT

Day	km	hPa	C
0	0.3	980	12
1	0.1	1000	12
2	0.2	993	10
3	0.6	943	5
4	0.6	948	6
5	0.5	966	7
6	0.9	920	5
7	1.4	859	1
8	1.2	871	0
9	1.4	858	−6
10	1.6	830	−10

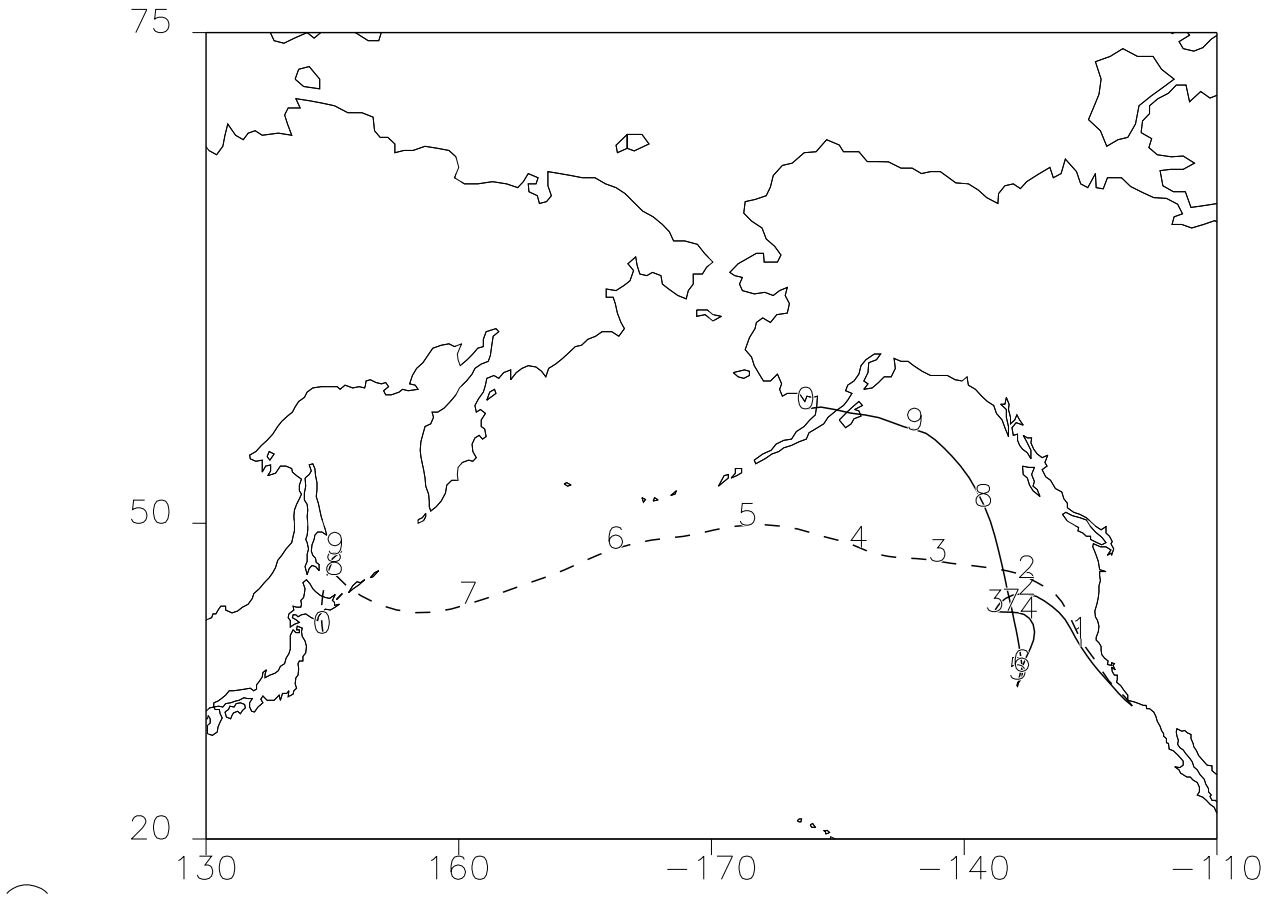
18UT

Day	km	hPa	C
0	0.3	982	16
1	0.2	1000	12
2	0.2	1000	11
3	0.3	989	9
4	0.2	998	10
5	0.2	1000	11
6	0.3	986	8
7	0.8	929	5
8	1.4	855	−1
9	1.9	801	−7
10	2.6	730	−14



12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/16/2003 (Day of Year 136)
NCEP/NCAR Reanalysis 1 Data Set

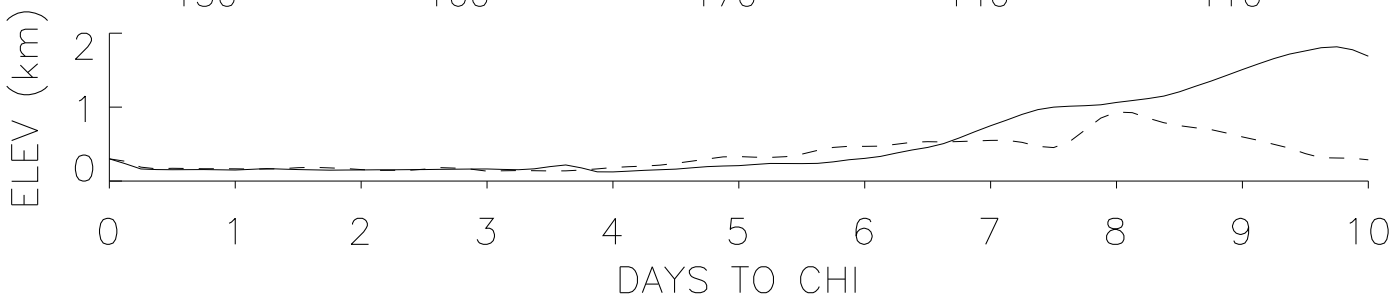


00UT

Day	km	hPa	C
0	0.3	981	17
1	0.1	1000	12
2	0.1	1000	10
3	0.2	1000	12
4	0.1	1000	10
5	0.2	1000	11
6	0.3	992	9
7	0.7	939	4
8	1.1	899	1
9	1.5	845	−4
10	1.7	821	−9

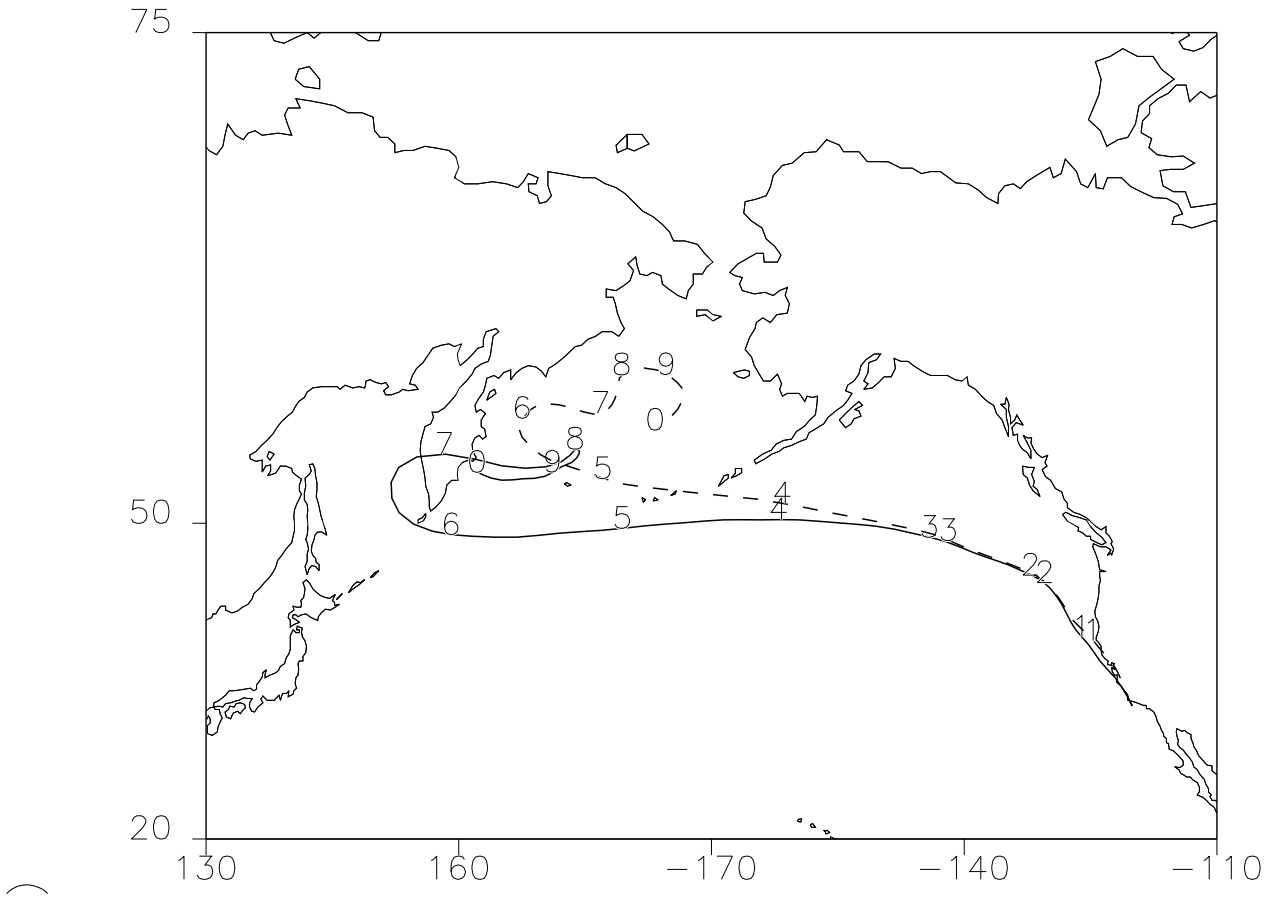
06UT

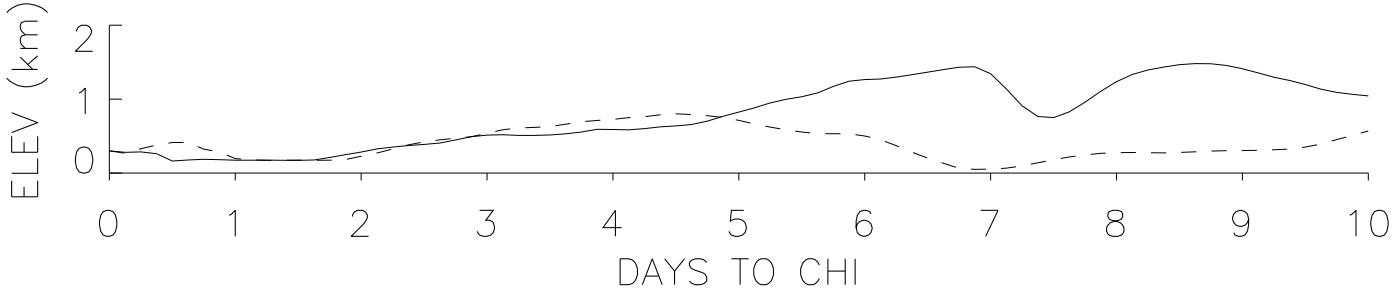
Day	km	hPa	C
0	0.3	980	14
1	0.2	1000	11
2	0.2	999	8
3	0.1	1000	7
4	0.2	995	5
5	0.3	974	5
6	0.5	955	6
7	0.6	940	5
8	0.9	886	−3
9	0.6	932	4
10	0.3	983	12



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/16/2003 (Day of Year 136)
NCEP/NCAR Reanalysis 1 Data Set





12UT

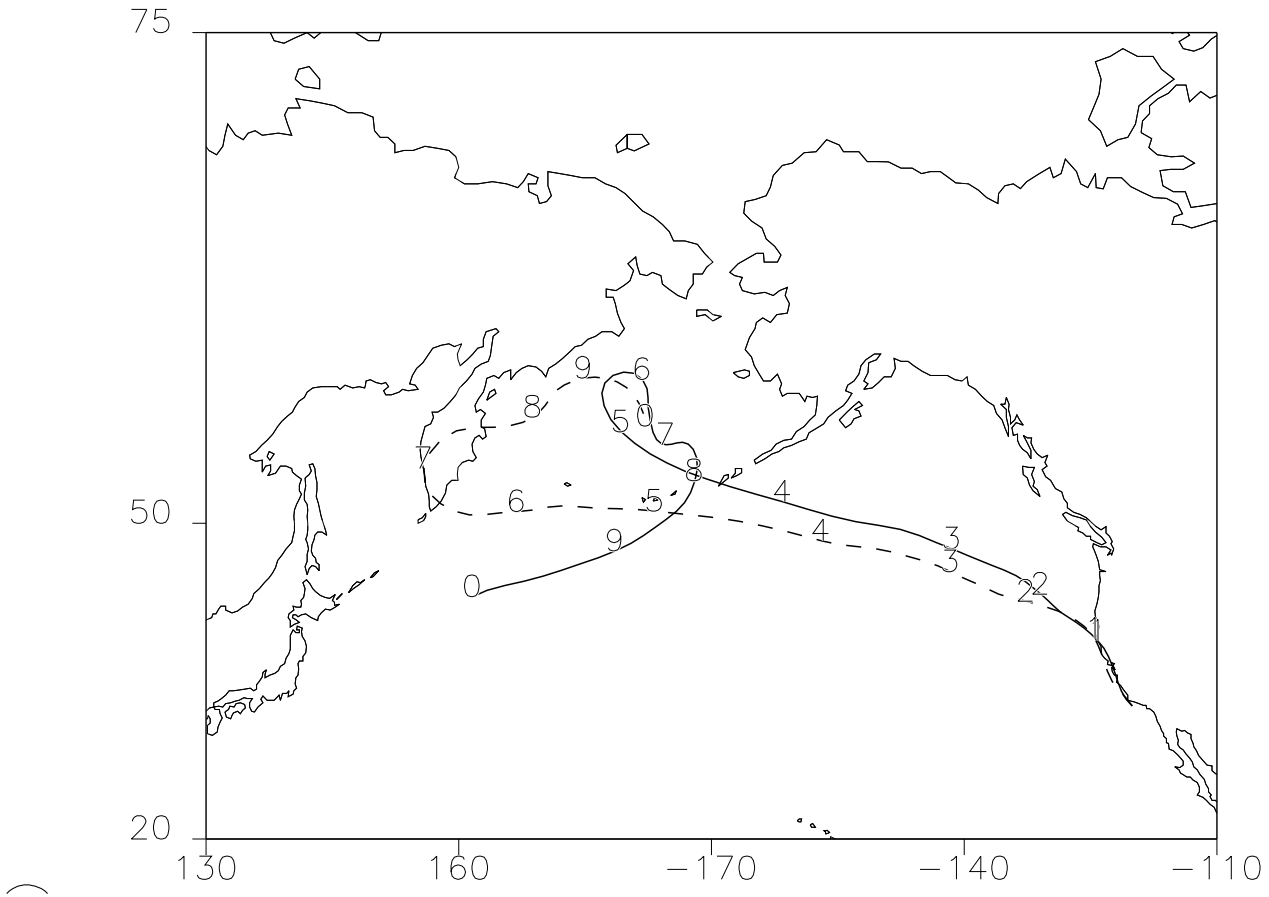
Day	km	hPa	C
0	0.3	979	14
1	0.2	1000	10
2	0.3	984	6
3	0.5	952	3
4	0.6	944	1
5	0.8	918	−4
6	1.3	861	−7
7	1.3	841	−8
8	1.2	862	−8
9	1.4	841	−9
10	1.0	872	−6

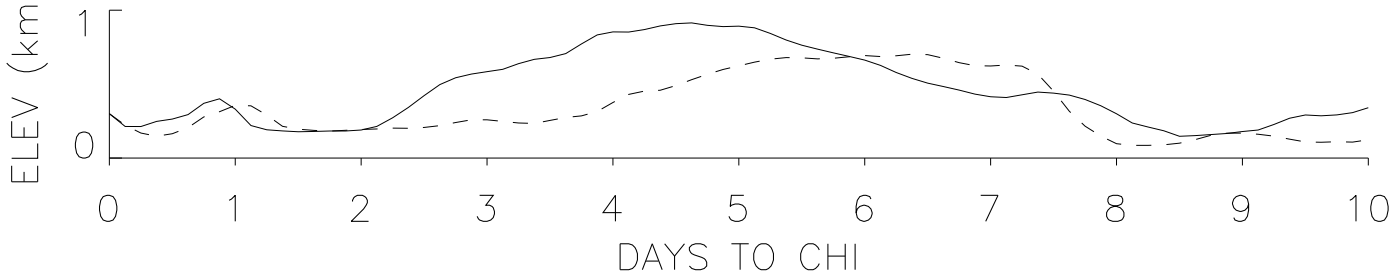
18UT

Day	km	hPa	C
0	0.3	980	19
1	0.2	999	11
2	0.2	993	7
3	0.5	951	4
4	0.7	924	1
5	0.7	924	−2
6	0.5	937	−3
7	0.1	1000	2
8	0.3	974	−2
9	0.3	977	0
10	0.6	943	−2

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/17/2003 (Day of Year 137)
NCEP/NCAR Reanalysis 1 Data Set





00UT

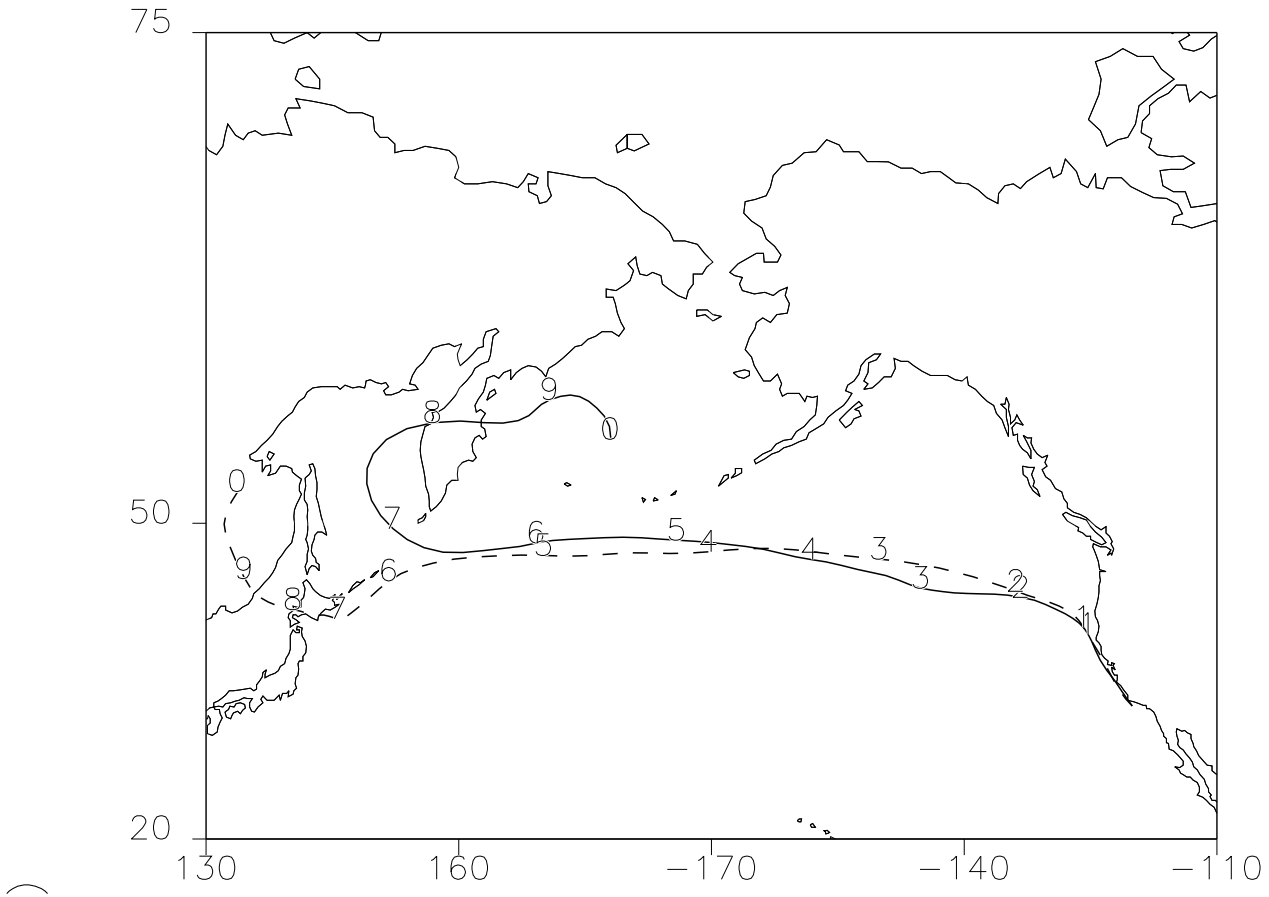
Day	km	hPa	C
0	0.3	978	21
1	0.3	982	13
2	0.2	999	7
3	0.6	949	3
4	0.9	912	0
5	0.9	899	−6
6	0.7	920	−3
7	0.4	956	1
8	0.3	974	2
9	0.2	1000	3
10	0.3	984	4

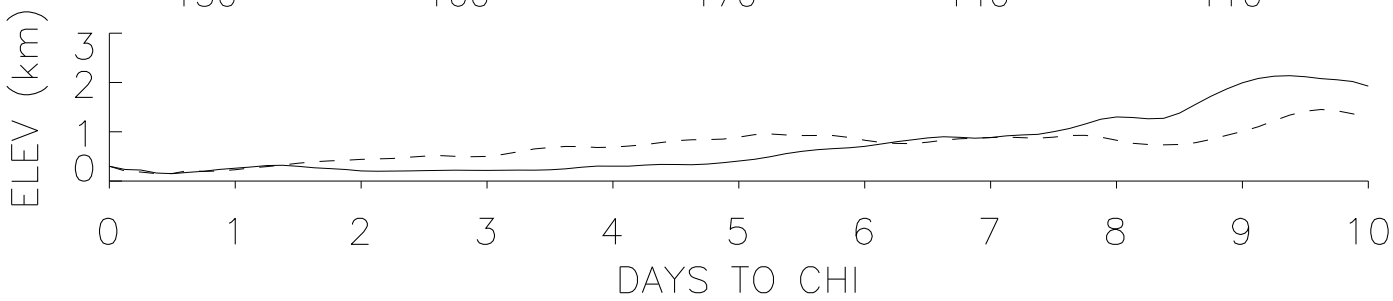
06UT

Day	km	hPa	C
0	0.3	978	18
1	0.4	982	9
2	0.2	1000	8
3	0.3	991	5
4	0.4	975	4
5	0.6	941	−1
6	0.7	930	−2
7	0.6	924	−2
8	0.1	998	0
9	0.2	991	0
10	0.1	998	2

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/17/2003 (Day of Year 137)
NCEP/NCAR Reanalysis 1 Data Set





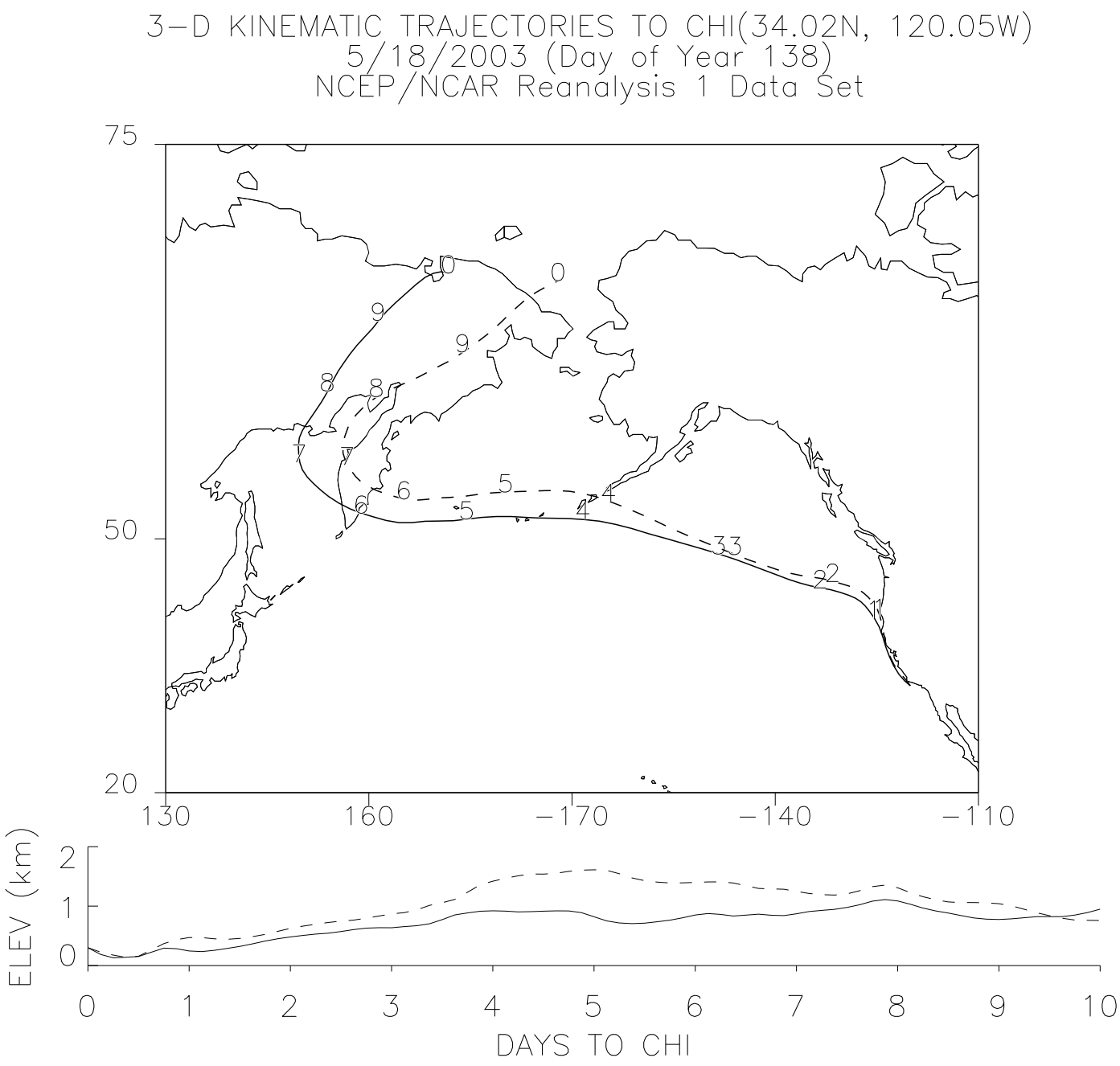
12UT

Day	km	hPa	C
0	0.3	977	18
1	0.3	993	9
2	0.2	997	8
3	0.2	1000	4
4	0.3	988	3
5	0.4	973	1
6	0.7	934	−3
7	0.9	907	−5
8	1.3	853	−7
9	2.0	784	−13
10	1.9	790	−13

18UT

Day	km	hPa	C
0	0.3	978	19
1	0.2	998	9
2	0.4	971	6
3	0.5	962	4
4	0.7	944	1
5	0.9	921	0
6	0.8	930	3
7	0.9	922	4
8	0.8	920	3
9	1.0	896	−2
10	1.3	859	−7

12UT − solid
18UT − dashed



00UT

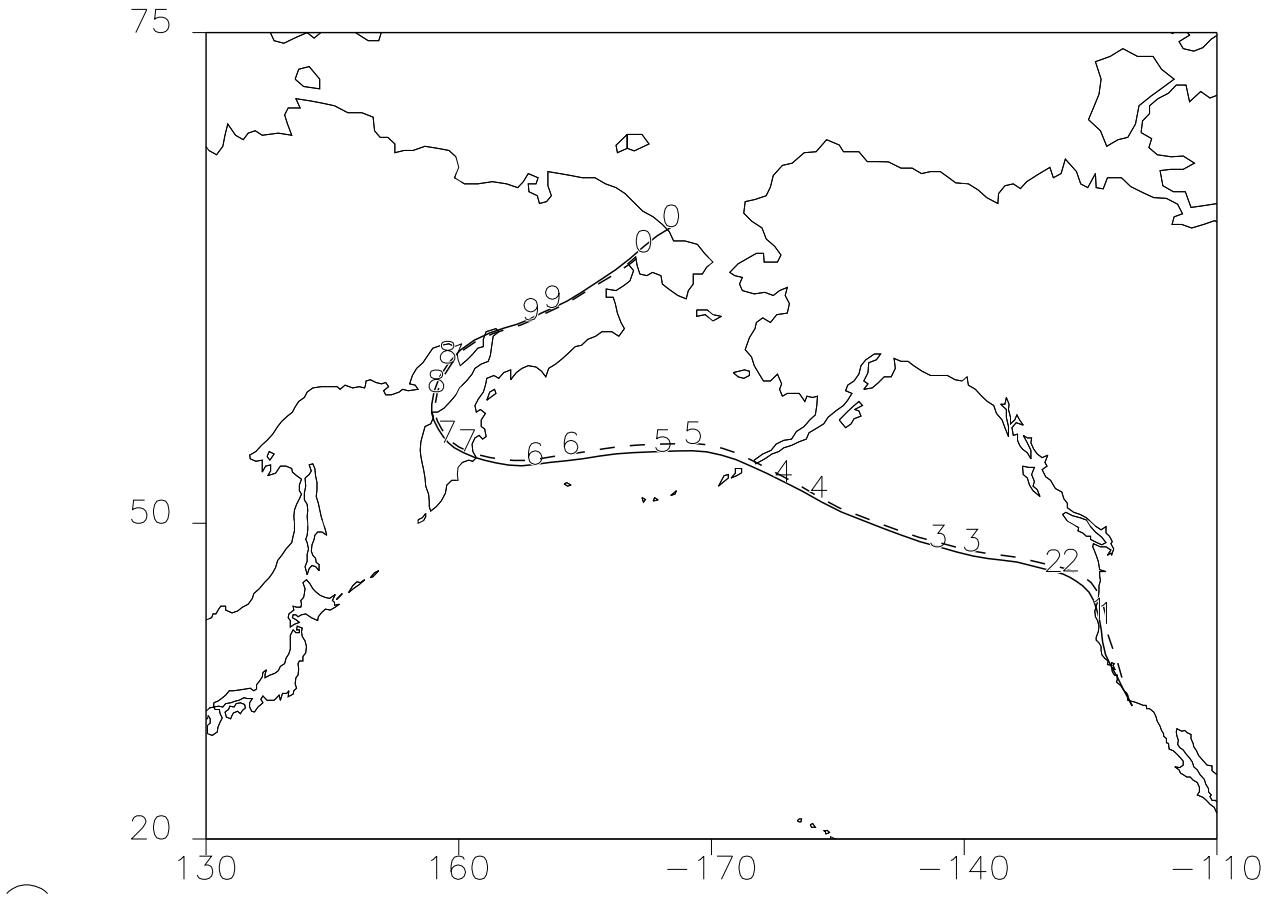
Day	km	hPa	C
0	0.3	978	19
1	0.2	995	11
2	0.5	966	5
3	0.6	943	3
4	0.9	908	-2
5	0.8	920	-4
6	0.9	916	-3
7	0.9	908	-2
8	1.1	885	-7
9	0.8	924	-4
10	0.9	910	-4

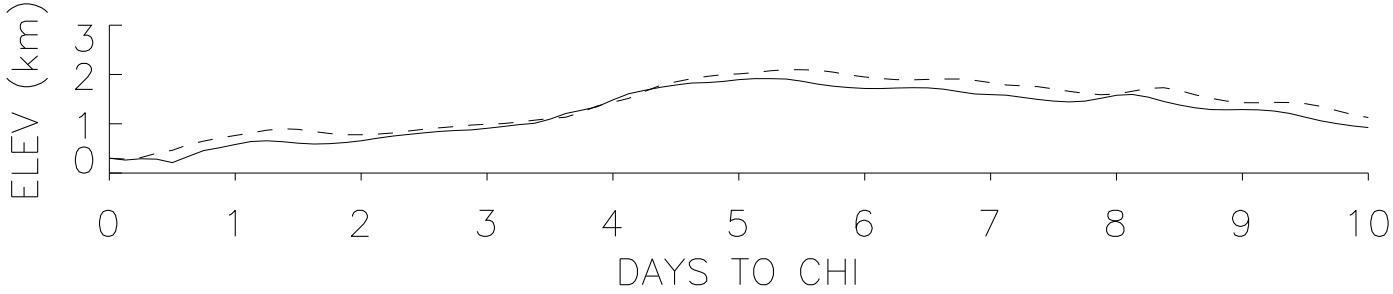
06UT

Day	km	hPa	C
0	0.3	978	17
1	0.5	969	6
2	0.6	949	3
3	0.9	917	0
4	1.4	848	-6
5	1.6	827	-10
6	1.4	851	-9
7	1.2	863	-7
8	1.3	856	-9
9	1.0	889	-7
10	0.8	929	-3

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/18/2003 (Day of Year 138)
NCEP/NCAR Reanalysis 1 Data Set





12UT

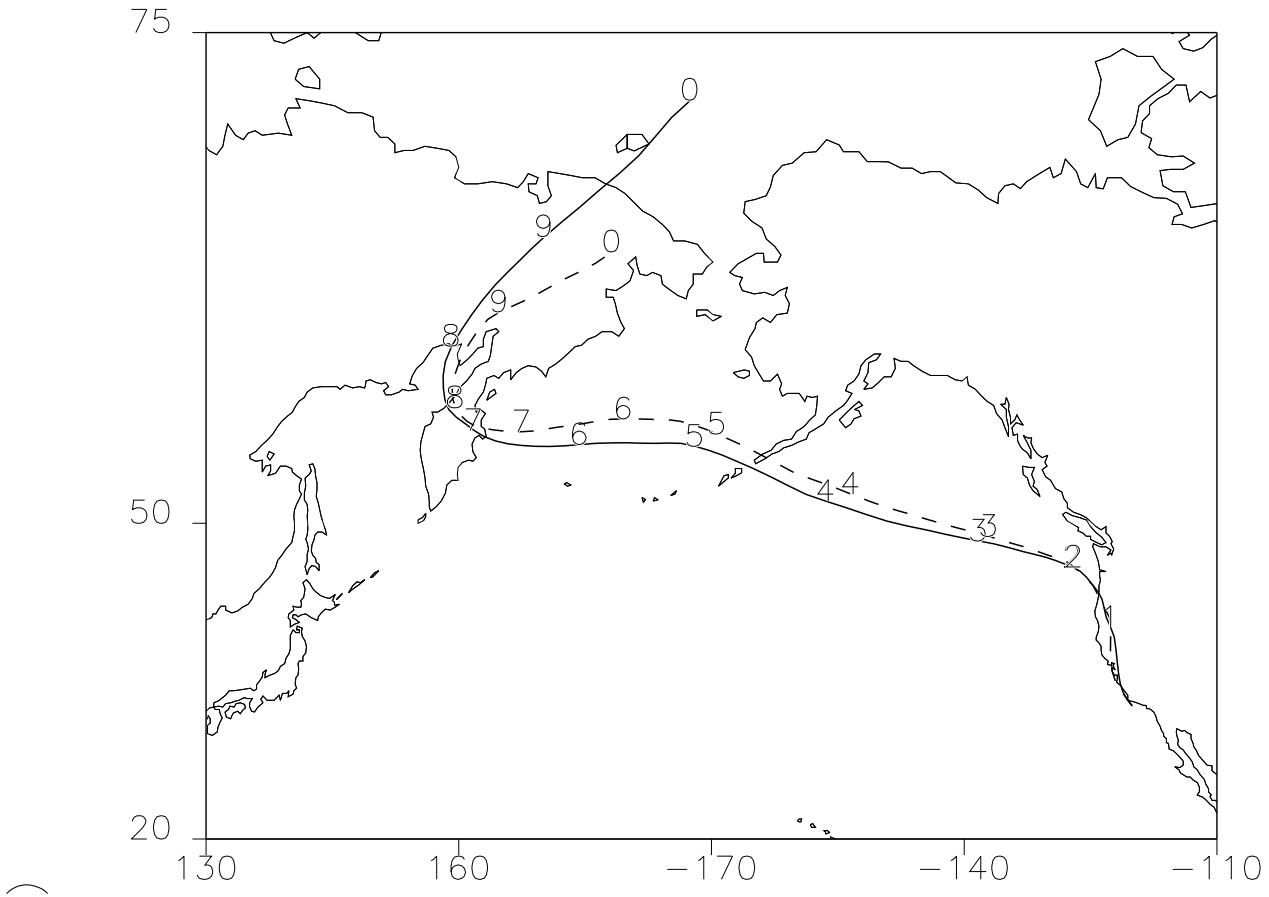
Day	km	hPa	C
0	0.3	978	14
1	0.6	956	5
2	0.7	945	1
3	0.9	913	−1
4	1.5	842	−7
5	1.9	796	−12
6	1.7	815	−12
7	1.6	827	−9
8	1.6	826	−9
9	1.3	859	−10
10	0.9	904	−5

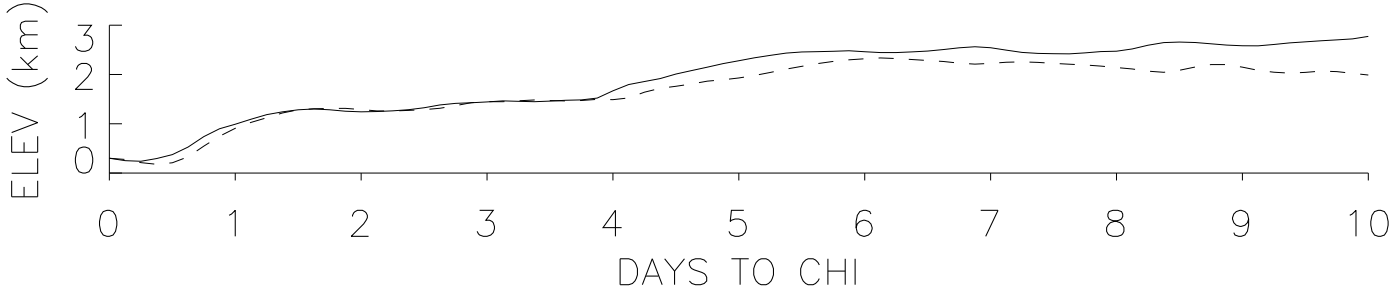
18UT

Day	km	hPa	C
0	0.3	980	19
1	0.8	934	7
2	0.8	932	1
3	1.0	903	−1
4	1.4	849	−5
5	2.0	783	−12
6	1.9	790	−14
7	1.8	801	−11
8	1.6	822	−9
9	1.4	843	−10
10	1.1	879	−8

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/19/2003 (Day of Year 139)
NCEP/NCAR Reanalysis 1 Data Set





00UT

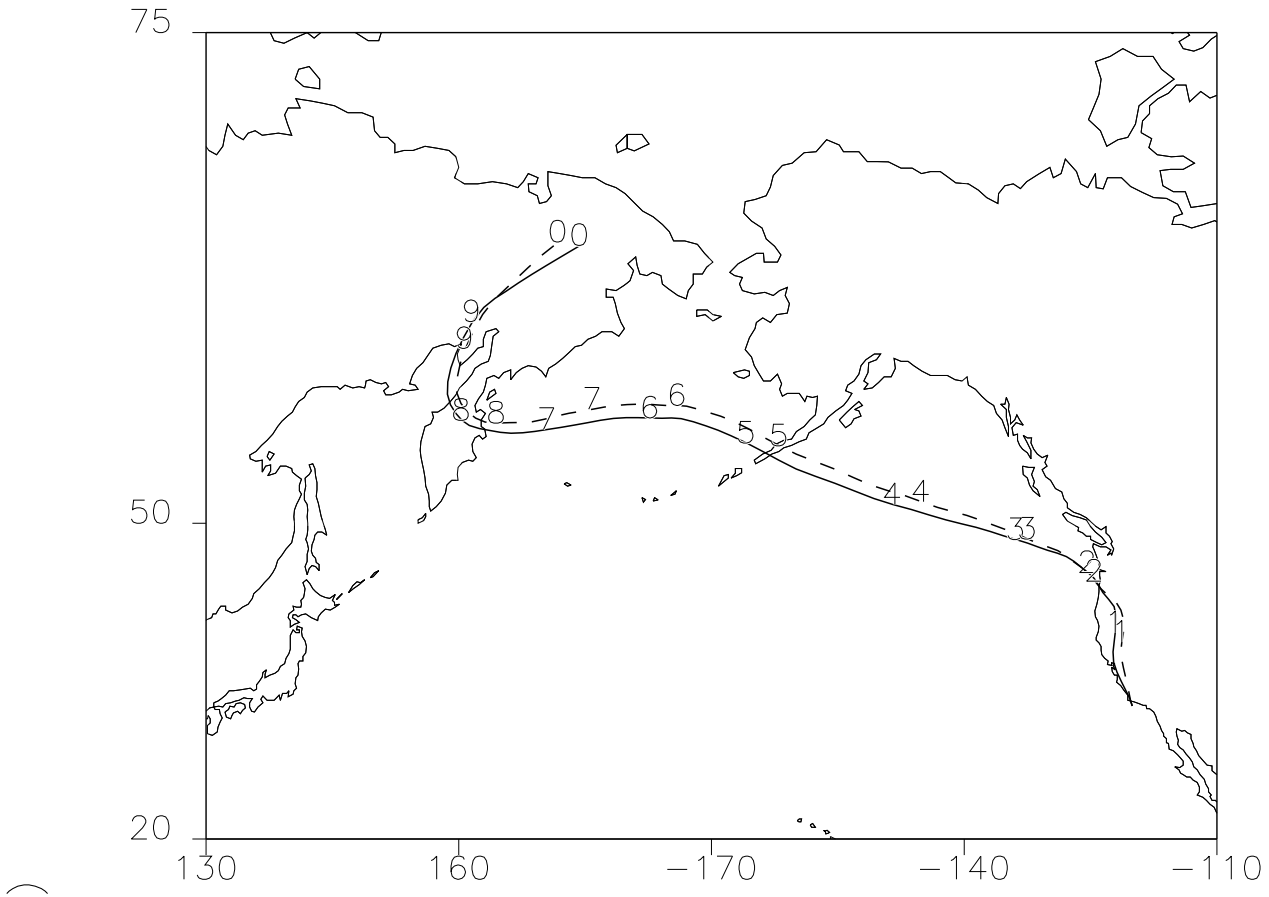
Day	km	hPa	C
0	0.3	978	22
1	1.0	908	9
2	1.2	880	−3
3	1.4	852	−3
4	1.7	827	−7
5	2.3	757	−15
6	2.5	737	−18
7	2.5	729	−18
8	2.5	733	−17
9	2.6	728	−17
10	2.8	713	−17

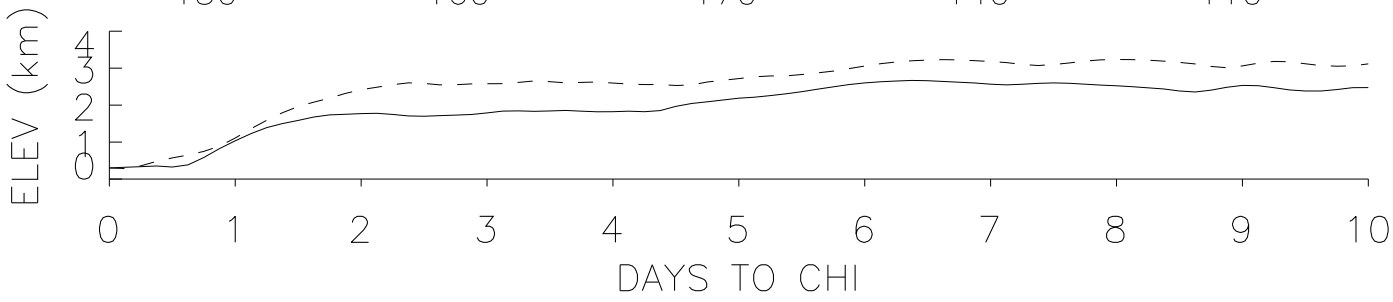
06UT

Day	km	hPa	C
0	0.3	979	17
1	0.9	918	5
2	1.3	876	−2
3	1.4	853	−4
4	1.5	844	−5
5	1.9	792	−12
6	2.3	750	−16
7	2.2	760	−16
8	2.1	767	−15
9	2.1	768	−14
10	2.0	786	−15

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/19/2003 (Day of Year 139)
NCEP/NCAR Reanalysis 1 Data Set





12UT

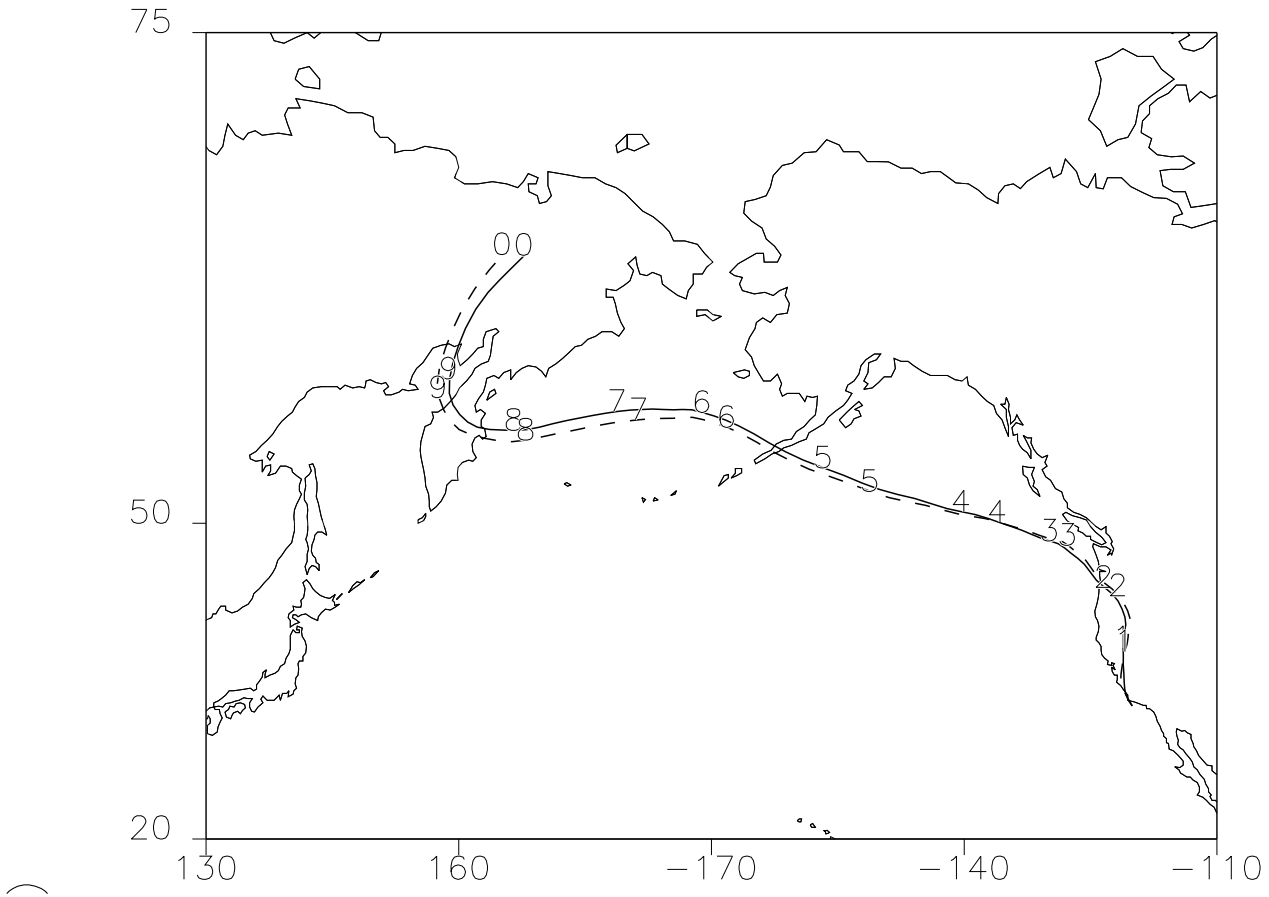
Day	km	hPa	C
0	0.3	980	15
1	1.0	905	3
2	1.8	824	−7
3	1.8	817	−7
4	1.8	808	−8
5	2.2	767	−14
6	2.6	722	−18
7	2.6	726	−18
8	2.5	730	−17
9	2.5	729	−16
10	2.5	738	−18

18UT

Day	km	hPa	C
0	0.3	981	22
1	1.1	896	9
2	2.4	760	−10
3	2.6	739	−12
4	2.6	730	−13
5	2.7	715	−17
6	3.1	679	−20
7	3.2	666	−22
8	3.2	662	−22
9	3.1	677	−20
10	3.1	676	−21

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/20/2003 (Day of Year 140)
NCEP/NCAR Reanalysis 1 Data Set

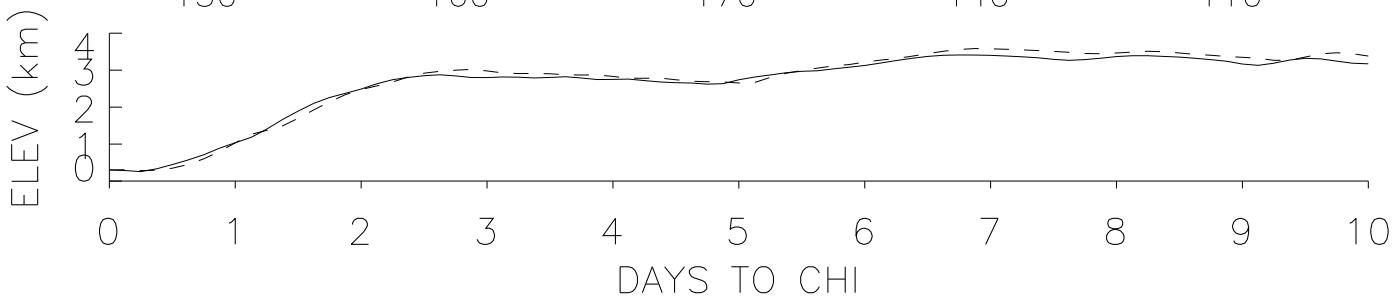


00UT

Day	km	hPa	C
0	0.3	980	24
1	1.0	902	15
2	2.5	752	−10
3	2.8	719	−14
4	2.8	717	−14
5	2.7	714	−16
6	3.1	673	−21
7	3.4	647	−24
8	3.4	651	−23
9	3.2	668	−20
10	3.2	673	−19

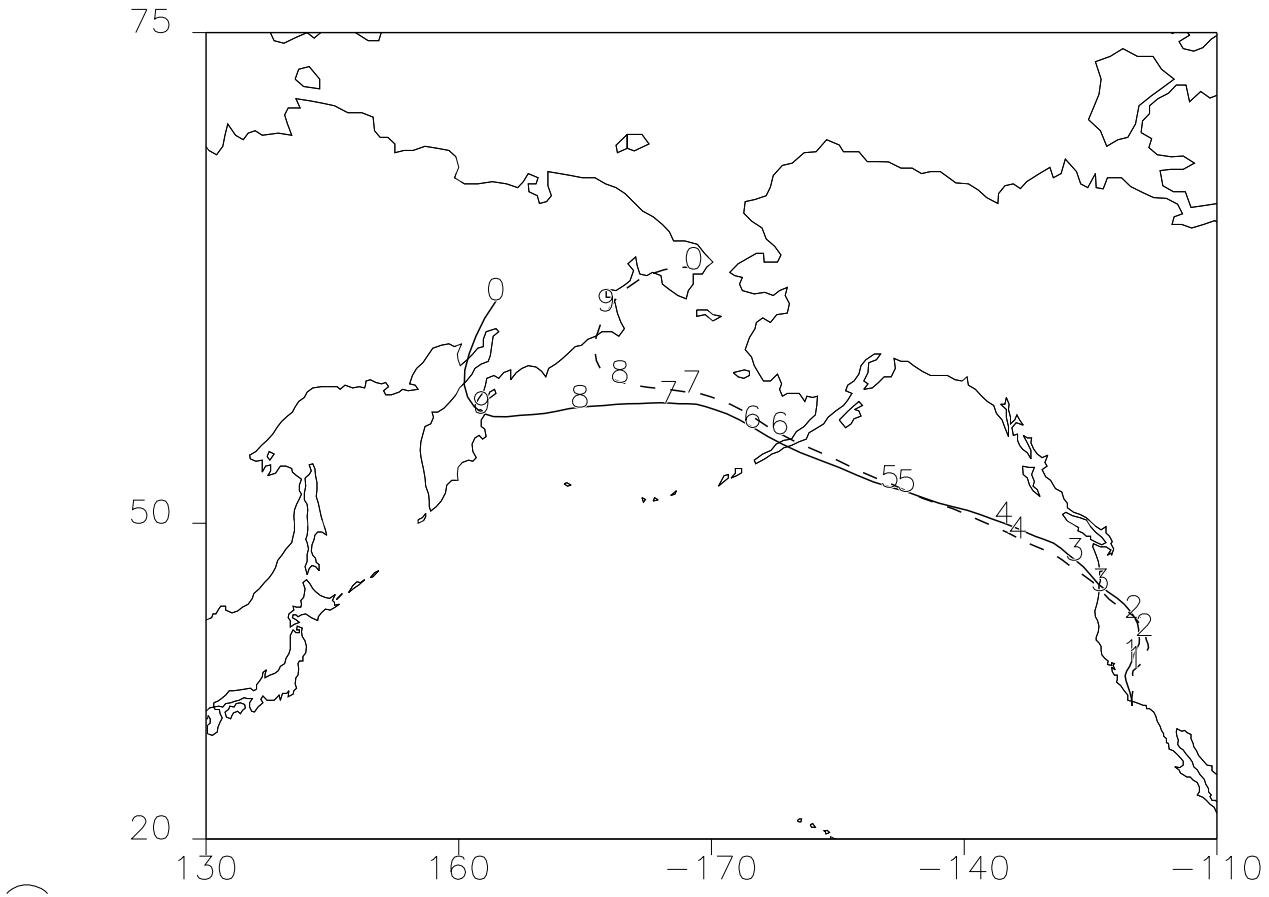
06UT

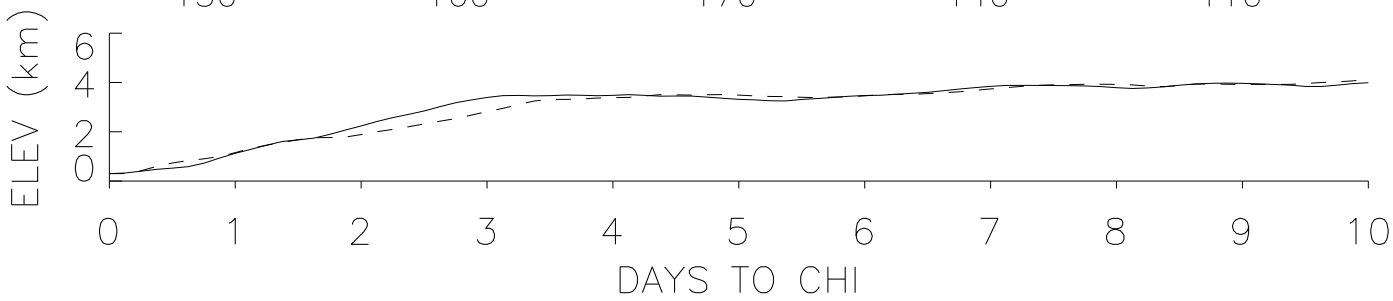
Day	km	hPa	C
0	0.3	980	20
1	1.0	902	11
2	2.5	754	−9
3	3.0	703	−14
4	2.8	711	−14
5	2.7	724	−14
6	3.2	667	−20
7	3.6	633	−25
8	3.5	644	−23
9	3.3	653	−22
10	3.4	654	−20



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/20/2003 (Day of Year 140)
NCEP/NCAR Reanalysis 1 Data Set





12UT

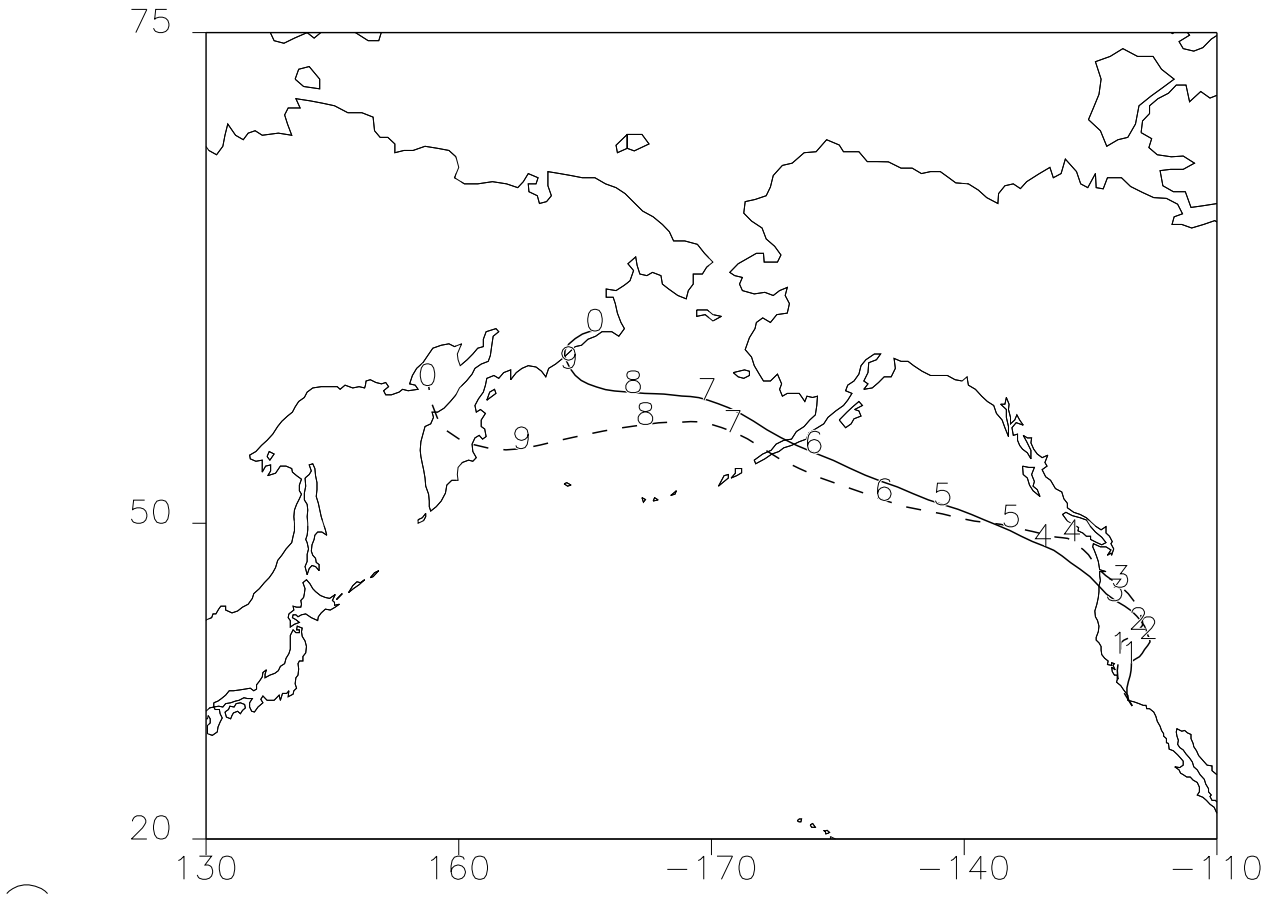
Day	km	hPa	C
0	0.3	979	17
1	1.1	892	11
2	2.2	778	−6
3	3.4	666	−18
4	3.5	653	−20
5	3.3	661	−20
6	3.5	644	−23
7	3.8	609	−26
8	3.8	614	−25
9	4.0	599	−27
10	4.0	598	−24

18UT

Day	km	hPa	C
0	0.3	981	24
1	1.2	890	19
2	1.9	814	4
3	2.8	721	−12
4	3.4	665	−18
5	3.5	648	−21
6	3.5	647	−22
7	3.7	619	−25
8	3.9	601	−27
9	3.9	599	−26
10	4.1	581	−26

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/21/2003 (Day of Year 141)
NCEP/NCAR Reanalysis 1 Data Set

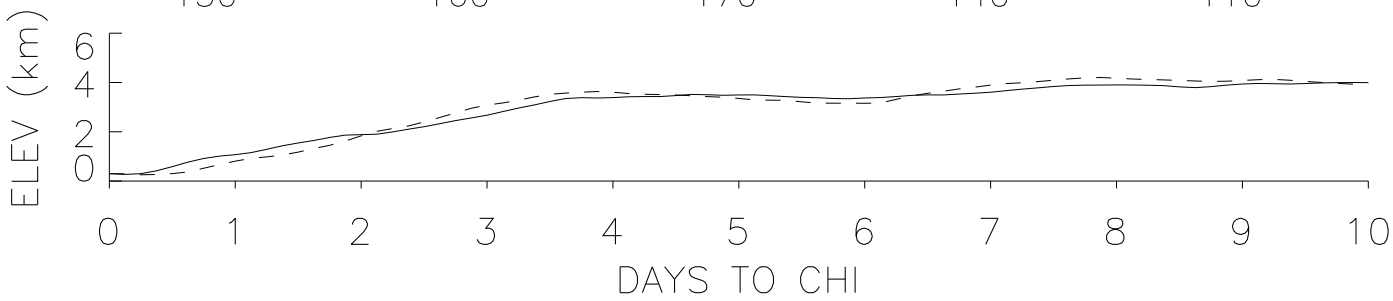


00UT

Day	km	hPa	C
0	0.3	978	26
1	1.1	898	22
2	1.9	815	9
3	2.7	735	−9
4	3.4	666	−18
5	3.5	650	−20
6	3.4	655	−22
7	3.6	630	−24
8	3.9	603	−27
9	3.9	599	−27
10	4.0	591	−27

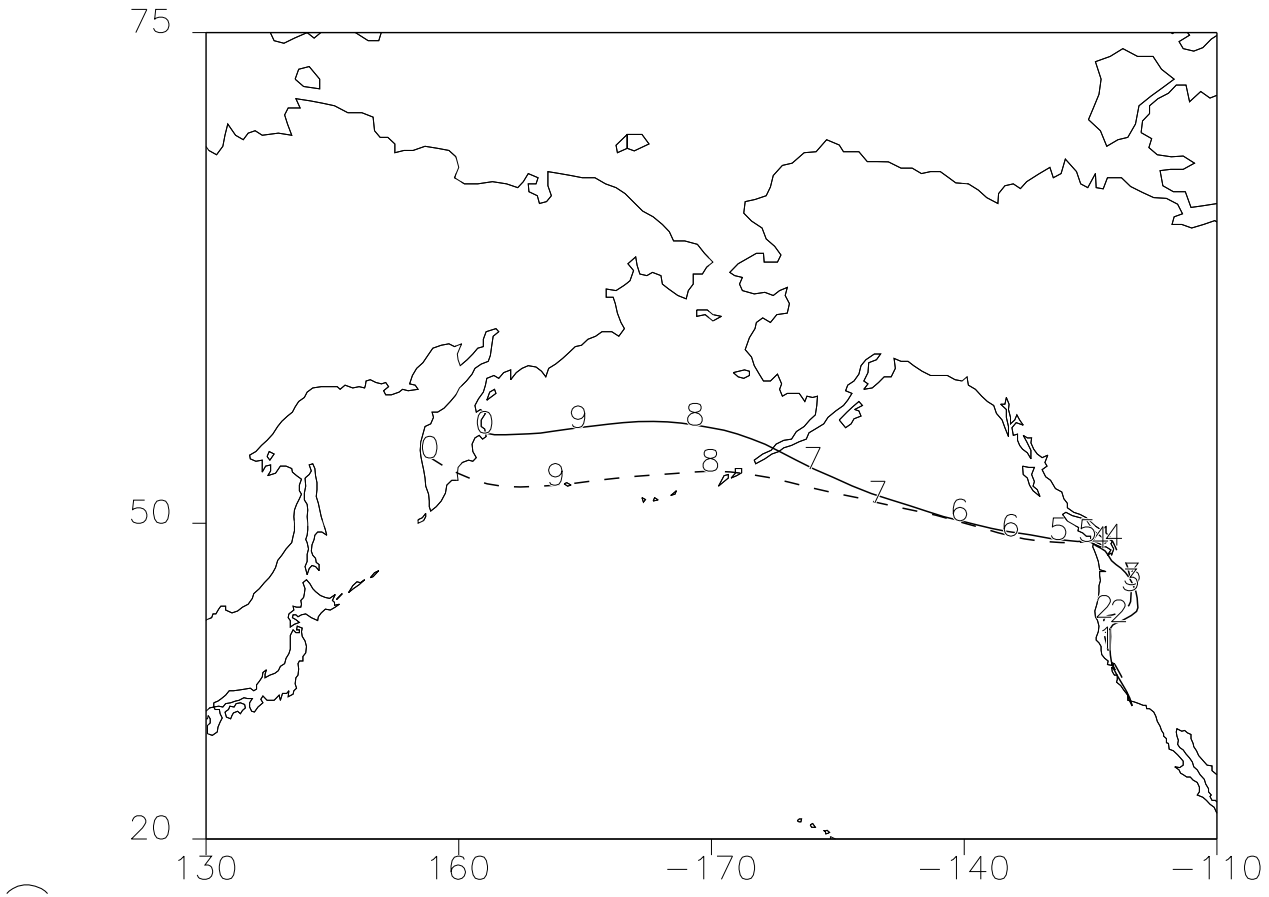
06UT

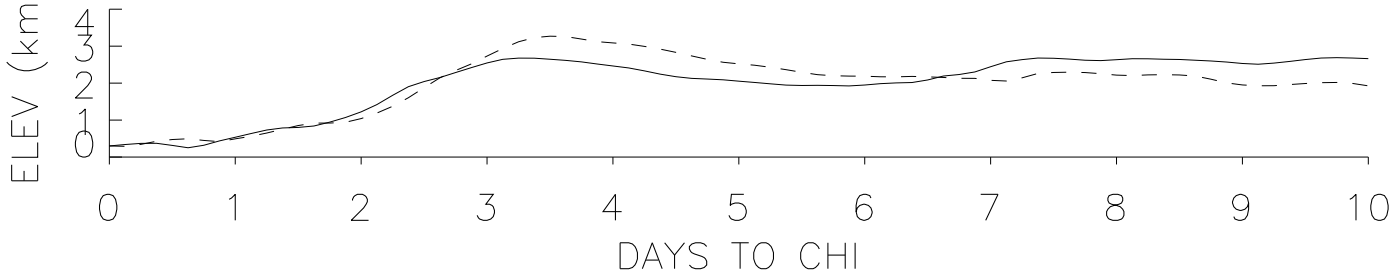
Day	km	hPa	C
0	0.3	979	21
1	0.8	928	17
2	1.8	821	3
3	3.1	696	−14
4	3.6	647	−19
5	3.4	664	−18
6	3.2	678	−17
7	3.9	608	−25
8	4.2	583	−29
9	4.1	592	−26
10	3.9	604	−25



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/21/2003 (Day of Year 141)
NCEP/NCAR Reanalysis 1 Data Set





12UT

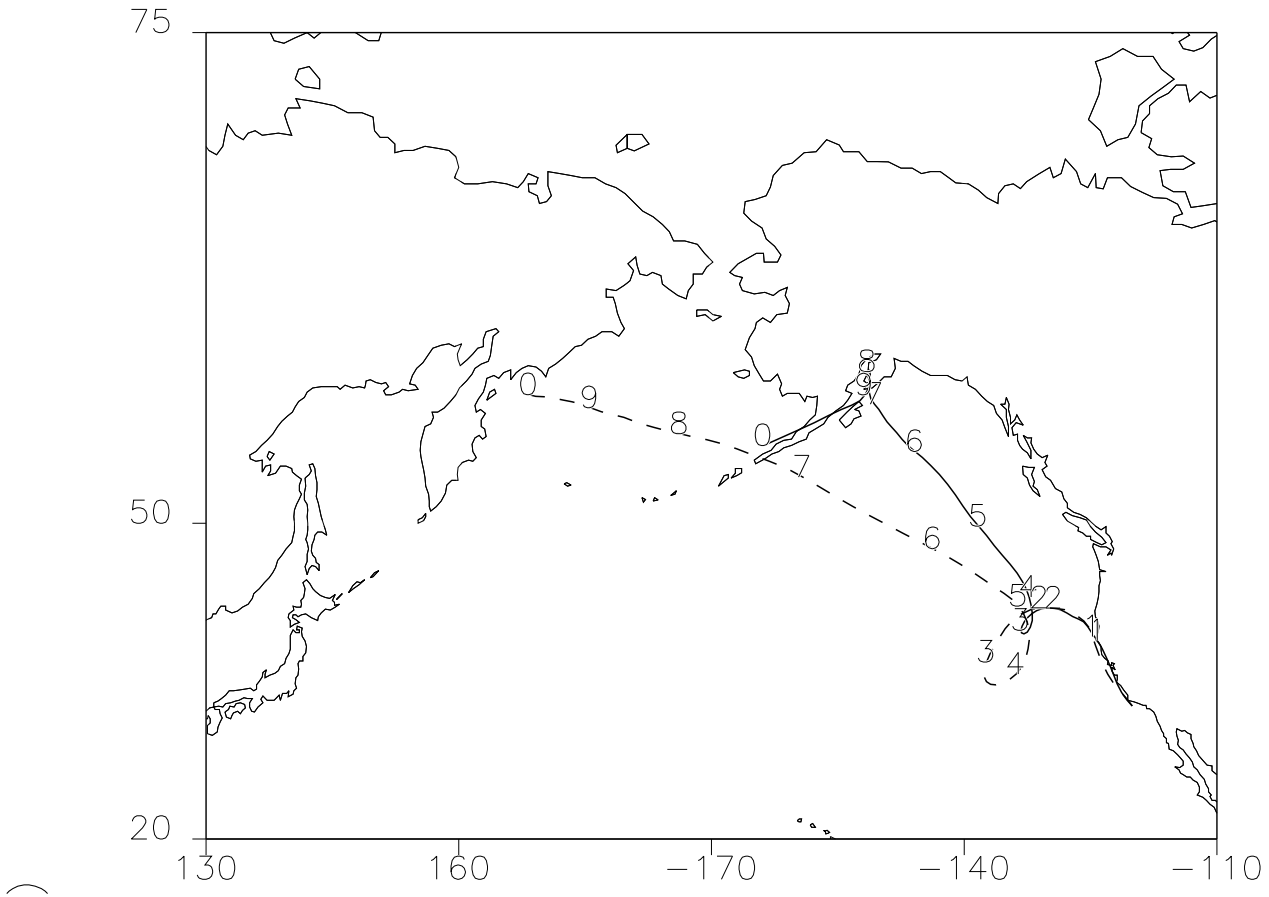
Day	km	hPa	C
0	0.3	978	18
1	0.5	959	12
2	1.2	885	6
3	2.5	747	−12
4	2.5	751	−12
5	2.1	789	−9
6	1.9	795	−9
7	2.4	739	−15
8	2.6	719	−17
9	2.5	730	−18
10	2.7	716	−18

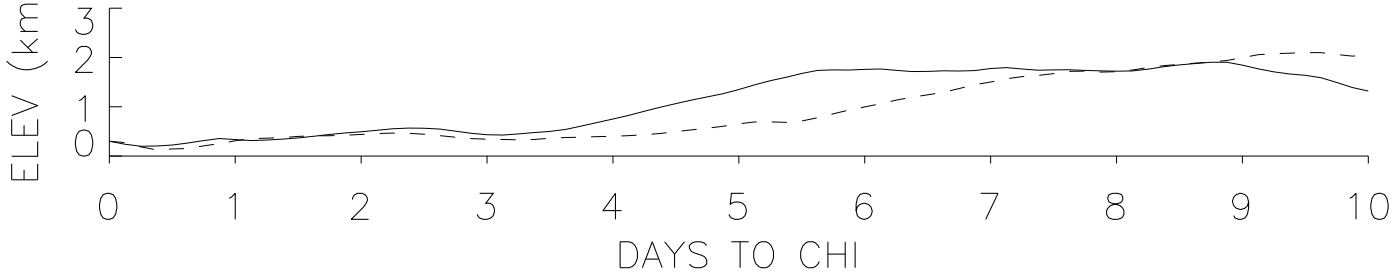
18UT

Day	km	hPa	C
0	0.3	979	24
1	0.5	964	18
2	1.0	906	11
3	2.7	732	−10
4	3.1	694	−16
5	2.5	744	−12
6	2.2	772	−9
7	2.1	779	−10
8	2.2	765	−12
9	2.0	793	−13
10	1.9	794	−11

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/22/2003 (Day of Year 142)
NCEP/NCAR Reanalysis 1 Data Set





00UT

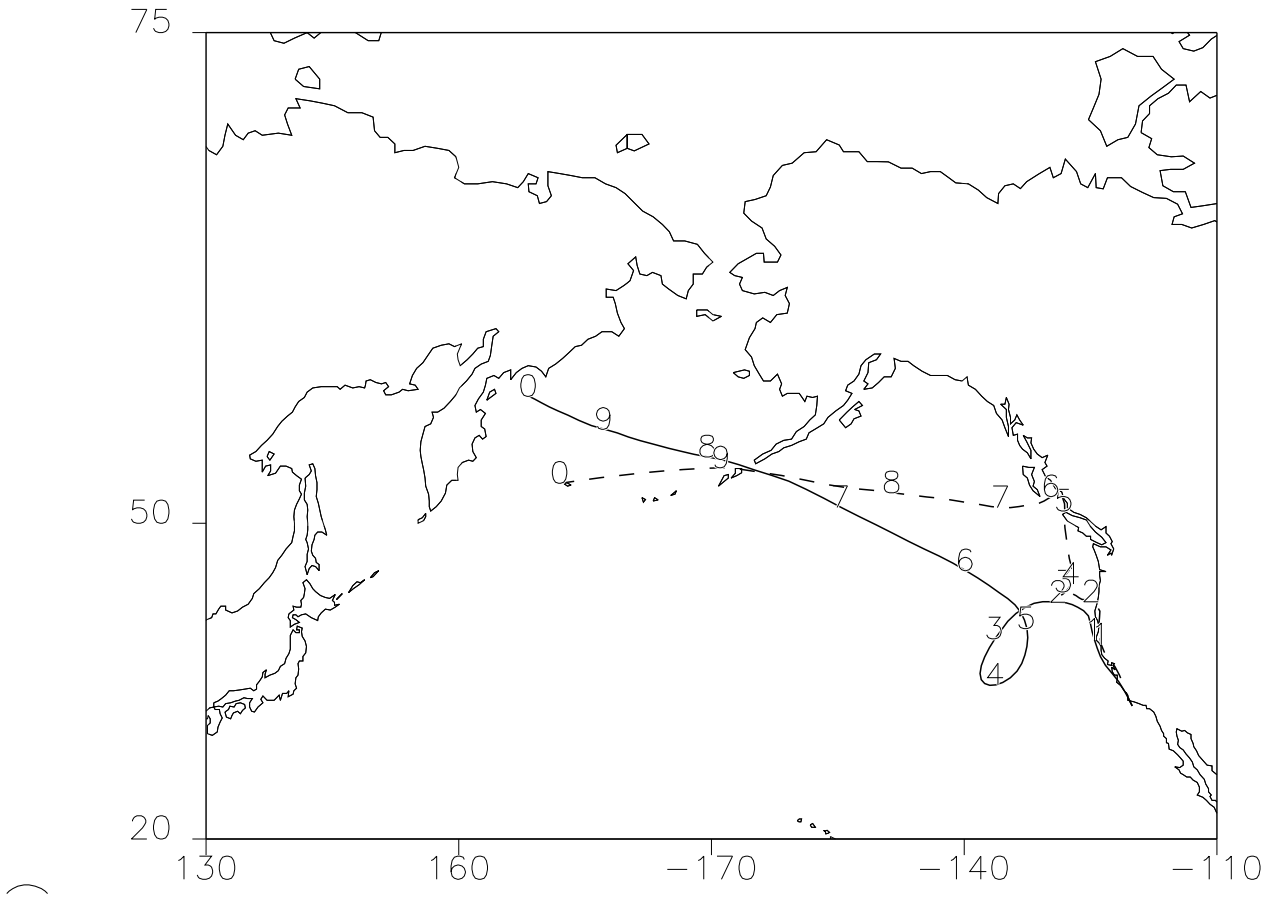
Day	km	hPa	C
0	0.3	977	26
1	0.3	981	19
2	0.5	968	9
3	0.4	981	8
4	0.8	944	3
5	1.3	871	−3
6	1.8	813	−7
7	1.8	803	−8
8	1.7	804	−8
9	1.8	791	−9
10	1.3	852	−6

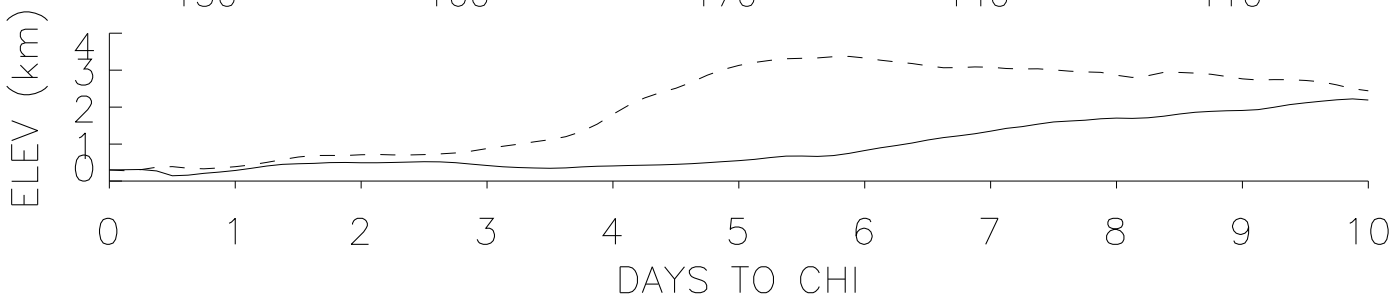
06UT

Day	km	hPa	C
0	0.3	978	20
1	0.3	985	14
2	0.4	973	9
3	0.3	990	11
4	0.4	985	8
5	0.7	955	3
6	1.0	908	0
7	1.5	843	−7
8	1.7	817	−11
9	2.0	782	−14
10	2.1	776	−15

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/22/2003 (Day of Year 142)
NCEP/NCAR Reanalysis 1 Data Set





12UT

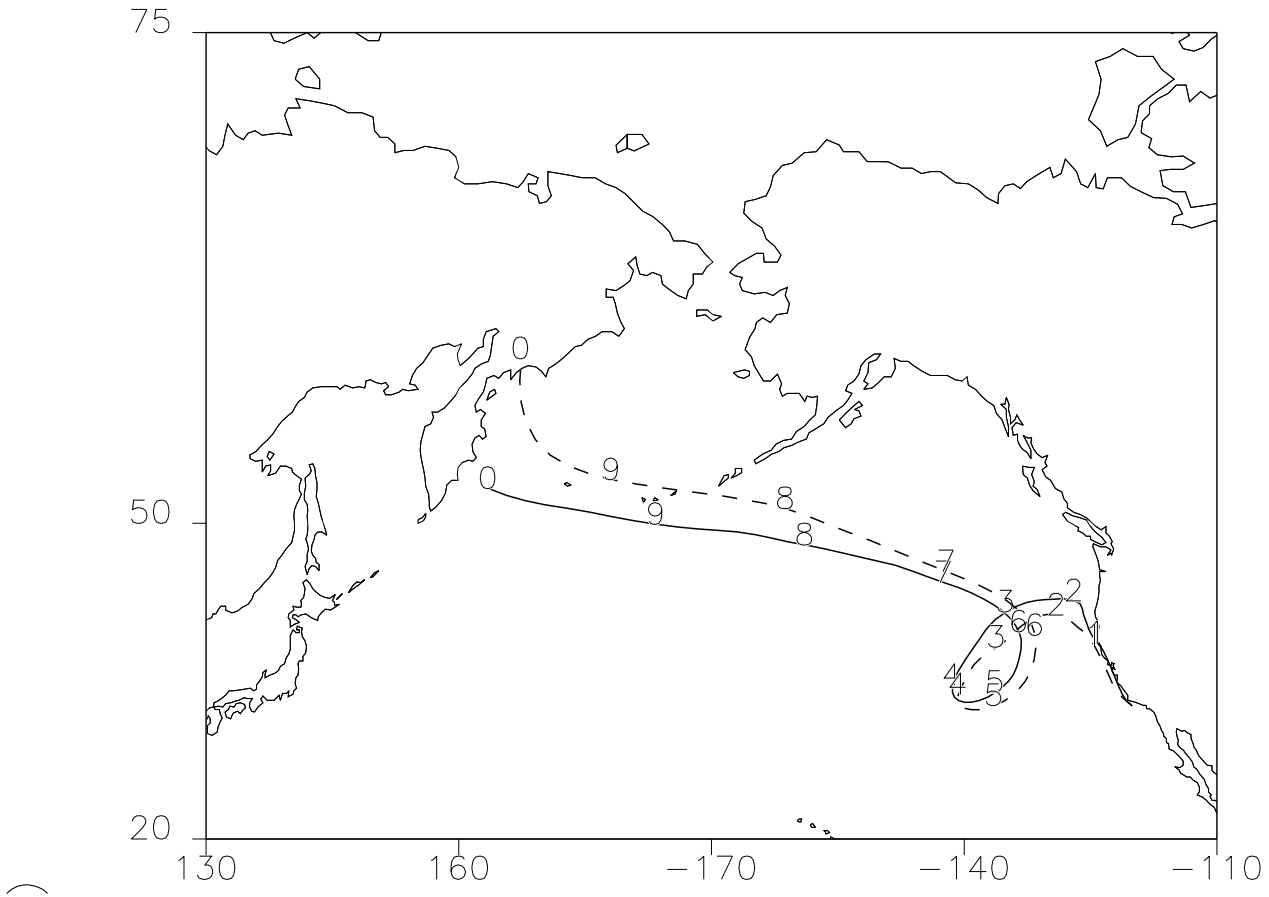
Day	km	hPa	C
0	0.3	977	17
1	0.3	987	12
2	0.5	965	10
3	0.4	978	10
4	0.4	984	9
5	0.6	967	6
6	0.8	930	1
7	1.3	862	−5
8	1.7	821	−11
9	1.9	793	−14
10	2.2	761	−16

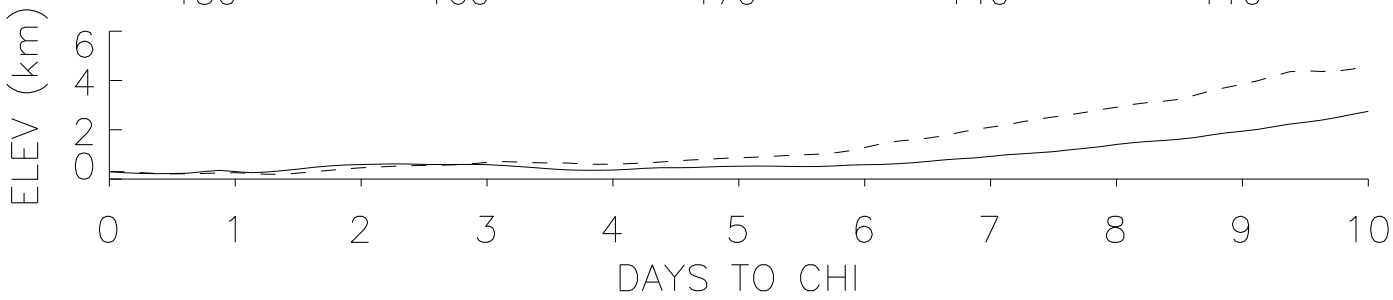
18UT

Day	km	hPa	C
0	0.3	978	22
1	0.4	974	19
2	0.7	941	12
3	0.9	925	7
4	1.8	828	−2
5	3.1	692	−14
6	3.3	667	−17
7	3.1	685	−15
8	2.9	701	−17
9	2.8	711	−17
10	2.4	743	−16

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/23/2003 (Day of Year 143)
NCEP/NCAR Reanalysis 1 Data Set





00UT

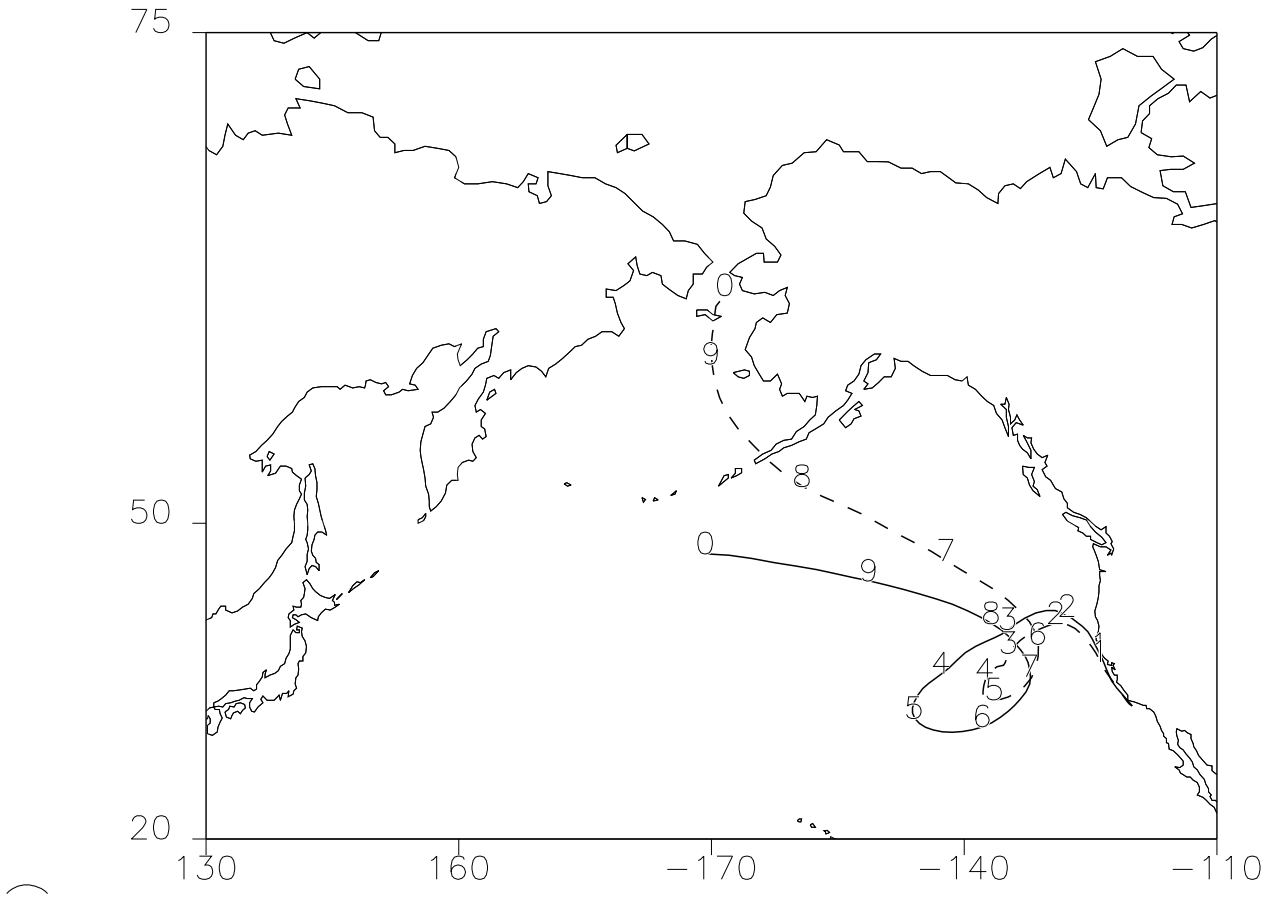
Day	km	hPa	C
0	0.3	977	25
1	0.3	982	22
2	0.6	954	12
3	0.6	956	9
4	0.4	986	12
5	0.5	971	9
6	0.6	963	6
7	0.9	919	3
8	1.4	863	−3
9	1.9	802	−7
10	2.7	717	−16

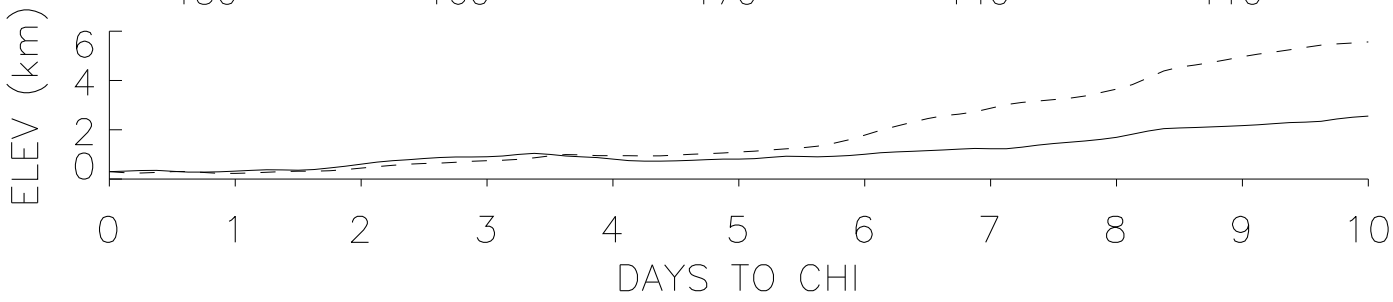
06UT

Day	km	hPa	C
0	0.3	978	19
1	0.3	988	15
2	0.5	970	10
3	0.7	948	10
4	0.6	959	10
5	0.9	930	7
6	1.3	883	3
7	2.1	792	−5
8	2.9	706	−13
9	3.8	619	−21
10	4.6	552	−26

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/23/2003 (Day of Year 143)
NCEP/NCAR Reanalysis 1 Data Set





12UT

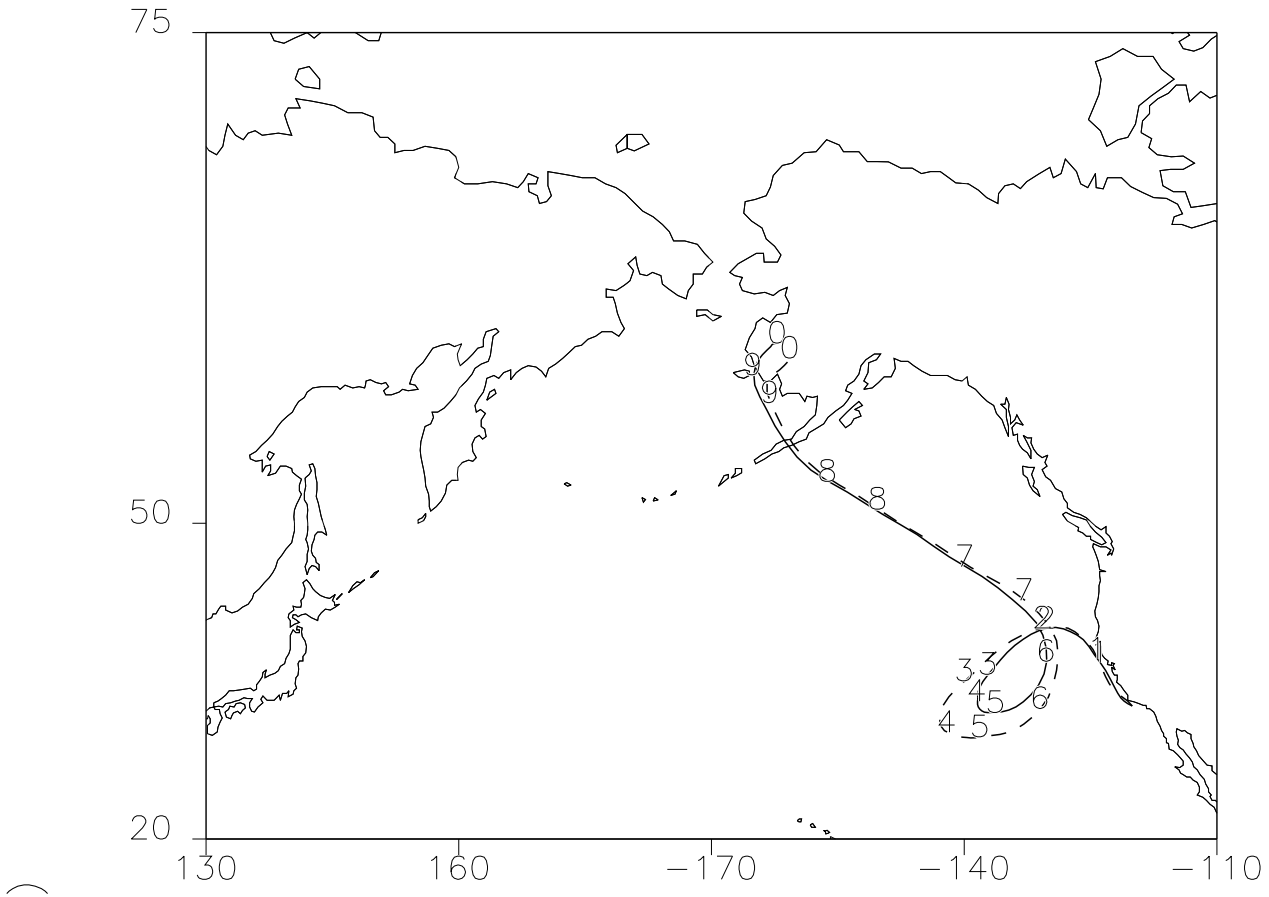
Day	km	hPa	C
0	0.3	976	17
1	0.3	980	13
2	0.6	952	10
3	0.9	920	9
4	0.8	933	11
5	0.8	934	9
6	1.0	913	8
7	1.2	888	4
8	1.7	834	1
9	2.2	785	−4
10	2.6	746	−6

18UT

Day	km	hPa	C
0	0.3	979	20
1	0.2	991	19
2	0.4	971	11
3	0.7	940	9
4	0.9	919	8
5	1.1	905	8
6	1.8	832	4
7	2.9	719	−11
8	3.6	639	−18
9	5.0	525	−29
10	5.6	477	−36

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/24/2003 (Day of Year 144)
NCEP/NCAR Reanalysis 1 Data Set

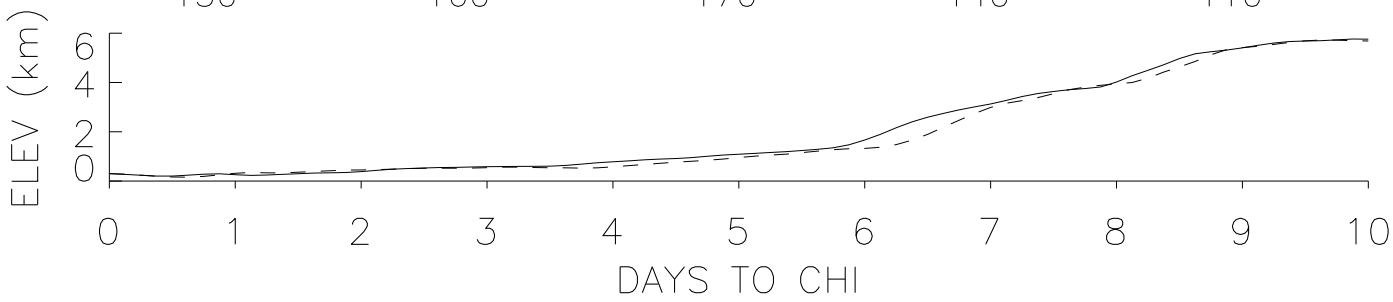


00UT

Day	km	hPa	C
0	0.3	977	21
1	0.3	985	22
2	0.4	976	11
3	0.6	958	10
4	0.8	937	9
5	1.1	904	9
6	1.7	843	6
7	3.1	698	−12
8	4.0	609	−19
9	5.4	493	−34
10	5.8	463	−38

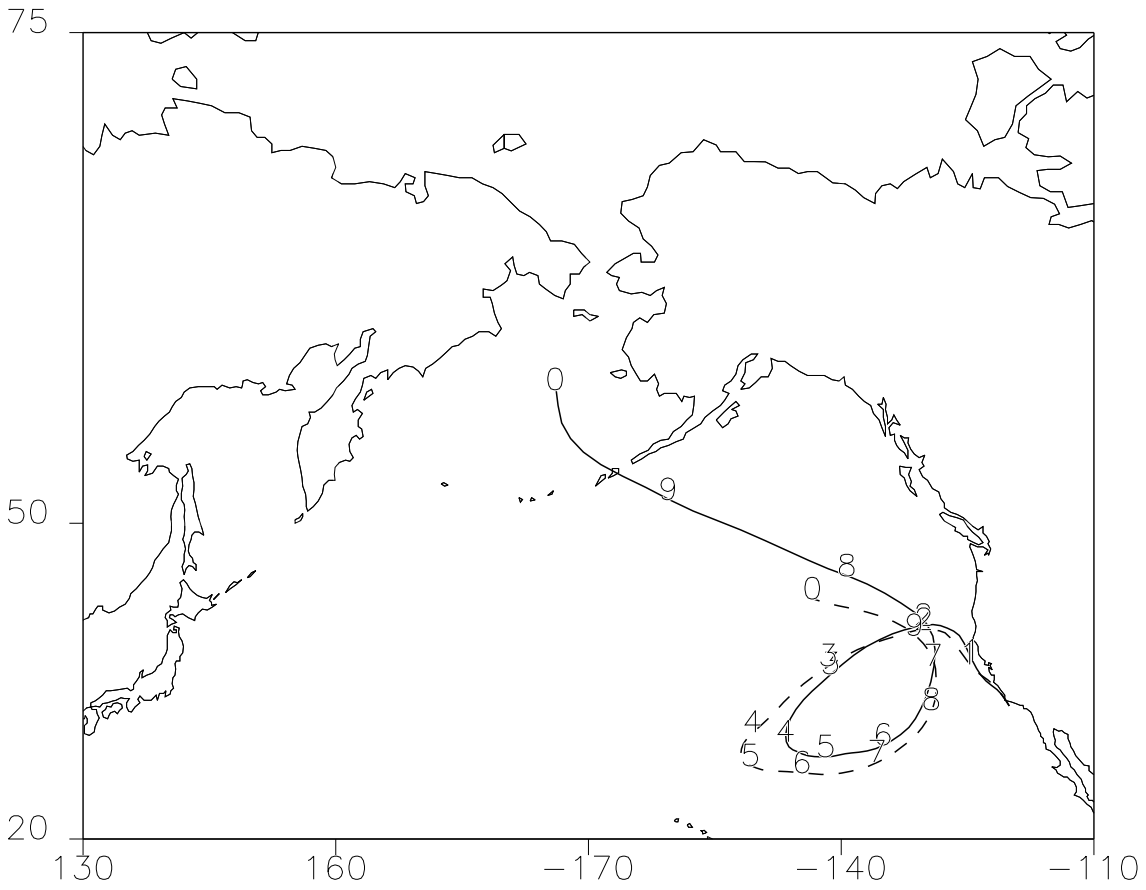
06UT

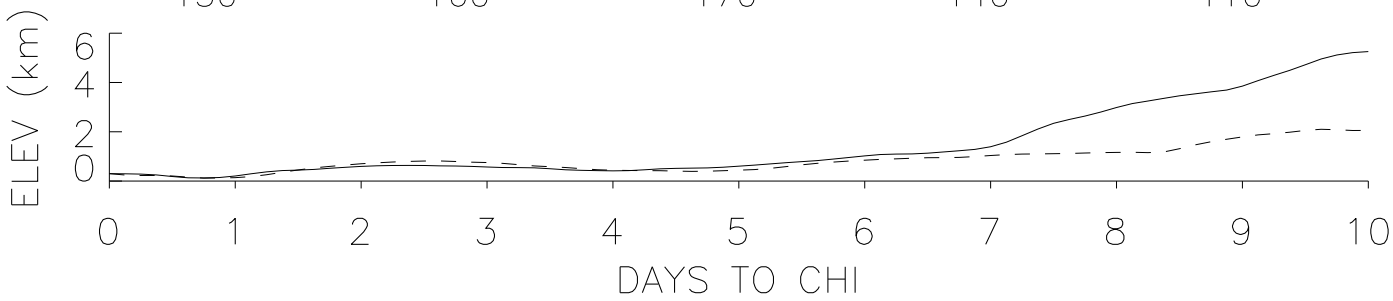
Day	km	hPa	C
0	0.3	978	17
1	0.3	979	16
2	0.5	968	12
3	0.5	960	11
4	0.6	959	11
5	1.0	918	9
6	1.3	877	9
7	3.0	710	−9
8	3.9	618	−19
9	5.4	494	−33
10	5.7	469	−38



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/24/2003 (Day of Year 144)
NCEP/NCAR Reanalysis 1 Data Set





12UT

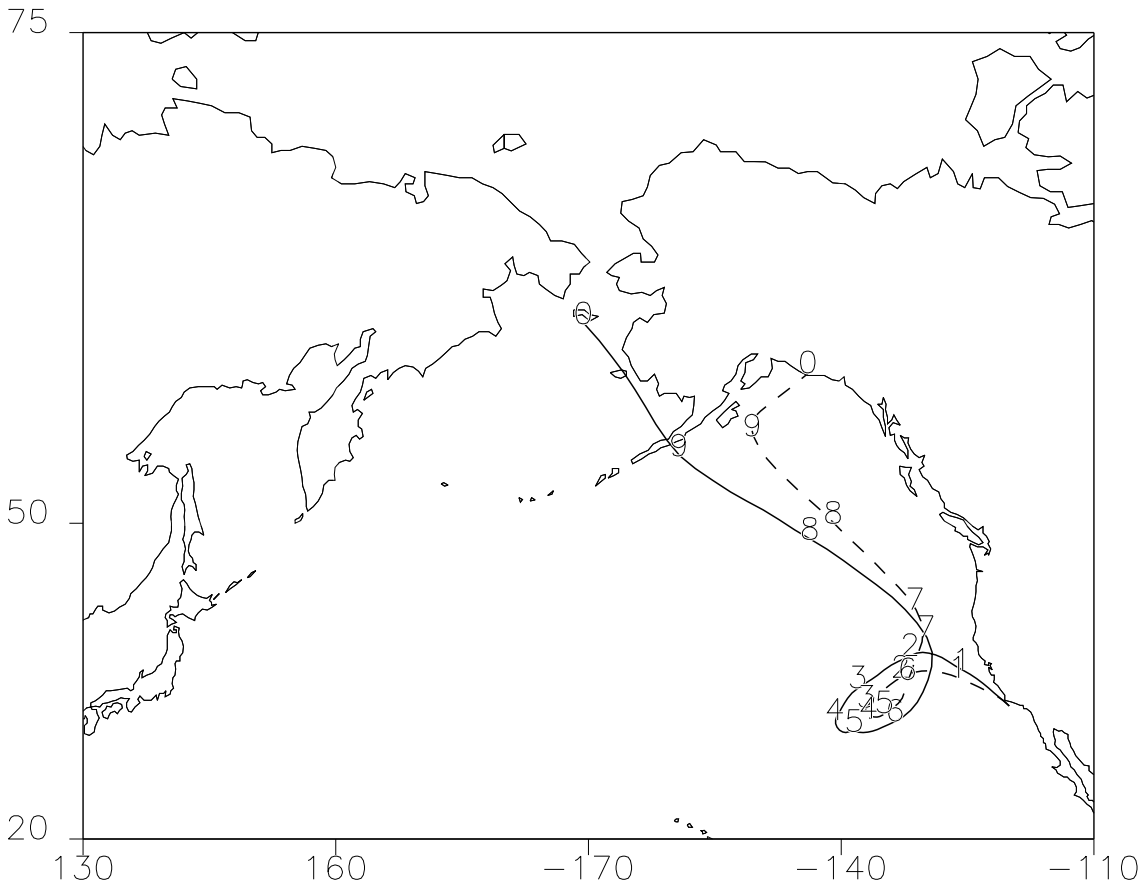
Day	km	hPa	C
0	0.3	977	15
1	0.2	991	15
2	0.6	950	13
3	0.6	955	12
4	0.4	976	14
5	0.6	957	11
6	1.0	909	8
7	1.4	868	6
8	3.0	707	−11
9	3.9	623	−20
10	5.3	503	−32

18UT

Day	km	hPa	C
0	0.3	979	17
1	0.1	999	17
2	0.7	939	13
3	0.7	934	13
4	0.4	971	17
5	0.4	973	15
6	0.8	927	12
7	1.0	908	10
8	1.2	893	6
9	1.8	825	2
10	2.1	796	−3

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/25/2003 (Day of Year 145)
NCEP/NCAR Reanalysis 1 Data Set

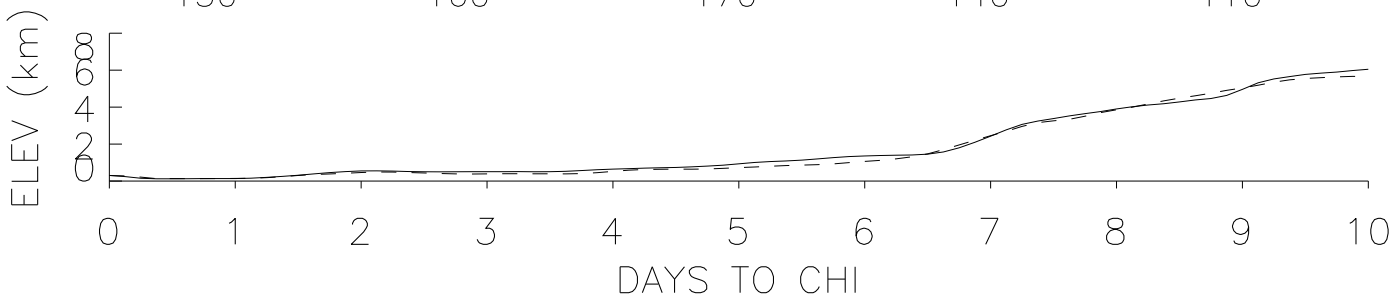


00UT

Day	km	hPa	C
0	0.3	977	17
1	0.1	1000	15
2	0.5	958	14
3	0.5	965	13
4	0.6	951	10
5	0.9	920	9
6	1.4	874	10
7	2.4	766	−1
8	3.9	629	−16
9	5.0	536	−25
10	6.1	451	−35

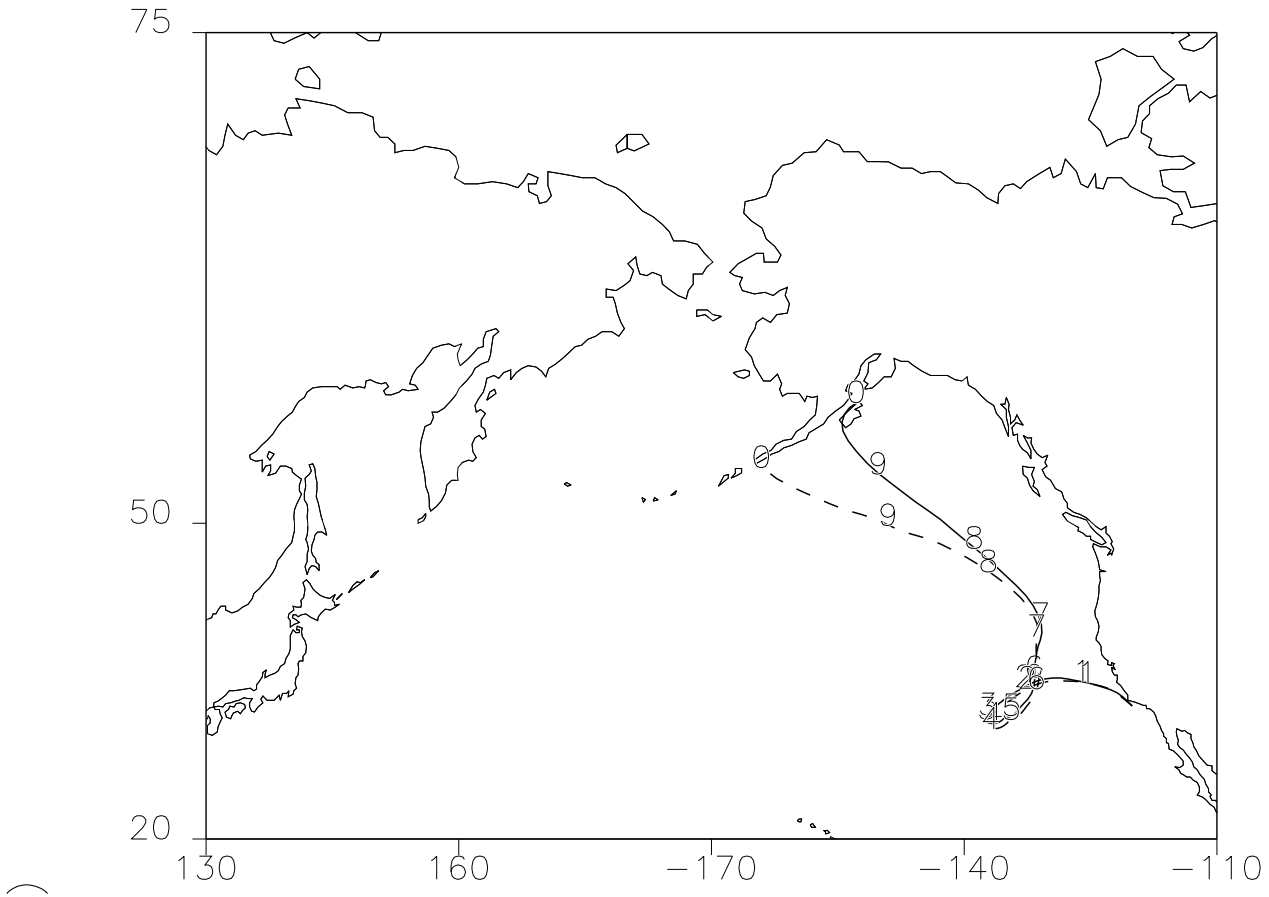
06UT

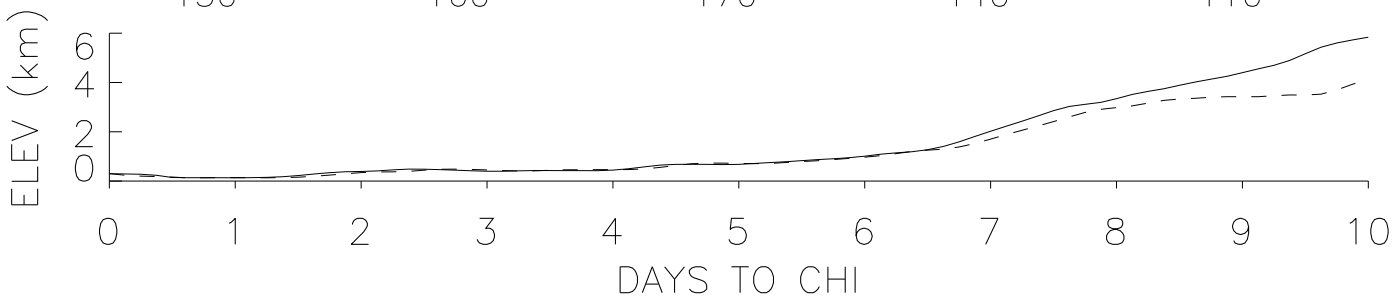
Day	km	hPa	C
0	0.3	978	14
1	0.1	1000	11
2	0.5	968	12
3	0.4	980	13
4	0.5	965	10
5	0.7	943	9
6	1.1	907	8
7	2.5	764	−3
8	3.9	631	−17
9	5.0	527	−29
10	5.7	475	−36



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/25/2003 (Day of Year 145)
NCEP/NCAR Reanalysis 1 Data Set





12UT

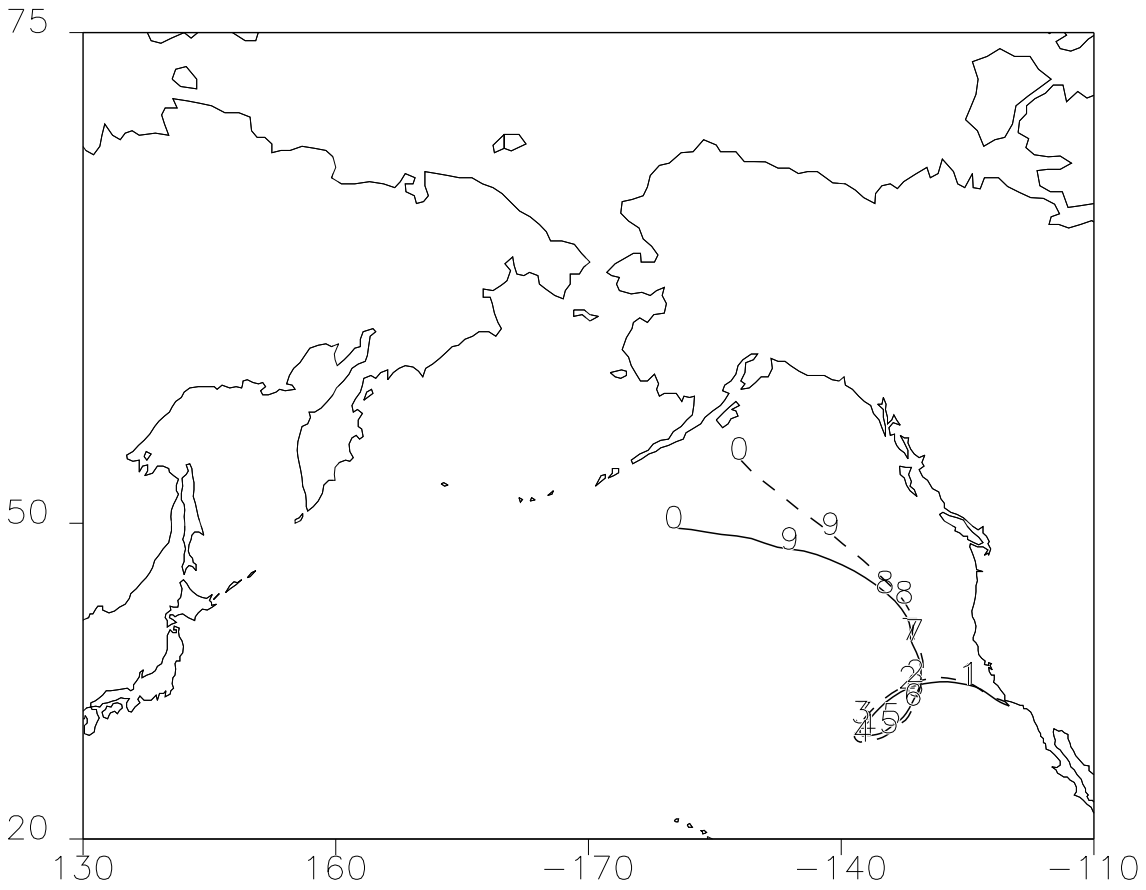
Day	km	hPa	C
0	0.3	977	13
1	0.1	1000	12
2	0.4	975	12
3	0.4	977	13
4	0.4	973	11
5	0.7	947	9
6	1.0	911	8
7	2.0	807	1
8	3.3	678	−14
9	4.4	581	−22
10	5.8	464	−38

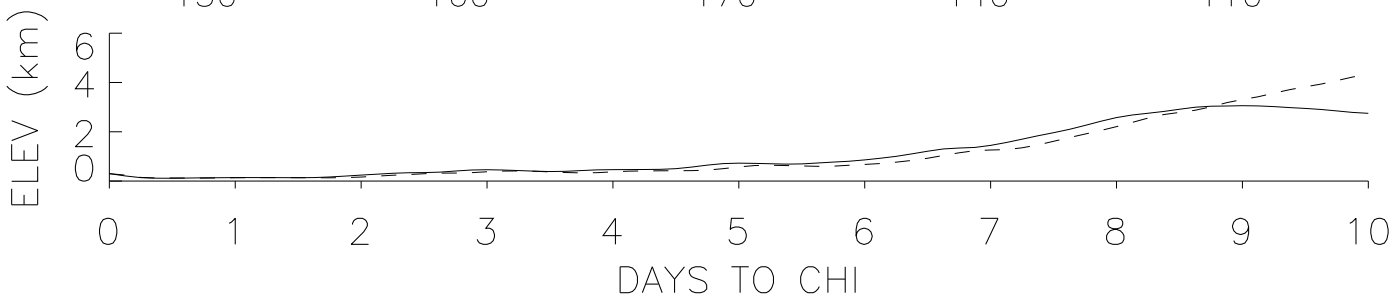
18UT

Day	km	hPa	C
0	0.3	979	17
1	0.1	1000	12
2	0.3	981	12
3	0.5	971	12
4	0.5	972	12
5	0.7	943	10
6	1.0	917	10
7	1.7	840	4
8	3.0	714	−9
9	3.4	669	−12
10	4.1	601	−18

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/26/2003 (Day of Year 146)
NCEP/NCAR Reanalysis 1 Data Set





00UT

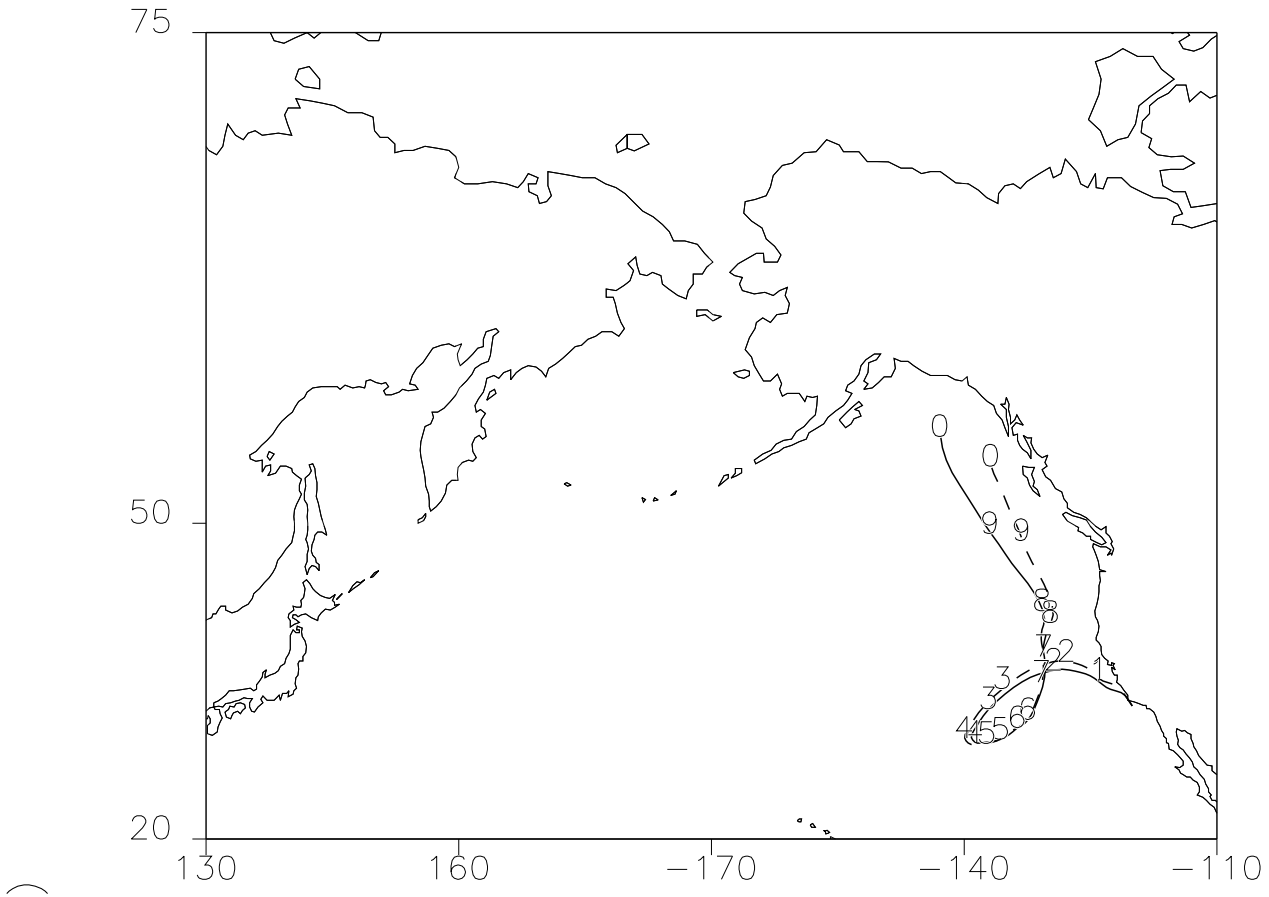
Day	km	hPa	C
0	0.3	978	16
1	0.1	1000	11
2	0.2	990	13
3	0.5	971	12
4	0.5	971	13
5	0.7	942	11
6	0.9	928	11
7	1.4	866	6
8	2.6	753	−4
9	3.1	704	−8
10	2.7	727	−7

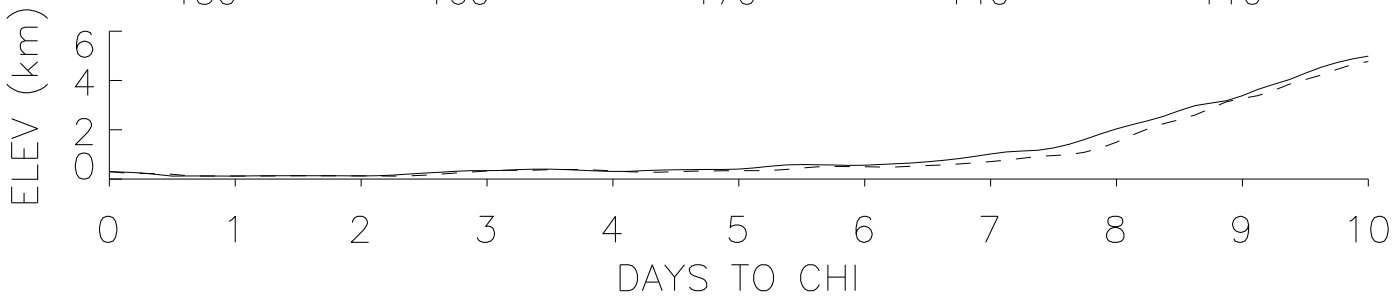
06UT

Day	km	hPa	C
0	0.3	979	15
1	0.1	1000	12
2	0.2	998	13
3	0.4	979	13
4	0.4	982	13
5	0.6	958	10
6	0.7	948	11
7	1.3	885	5
8	2.2	788	−2
9	3.3	680	−12
10	4.3	582	−23

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/26/2003 (Day of Year 146)
NCEP/NCAR Reanalysis 1 Data Set





12UT

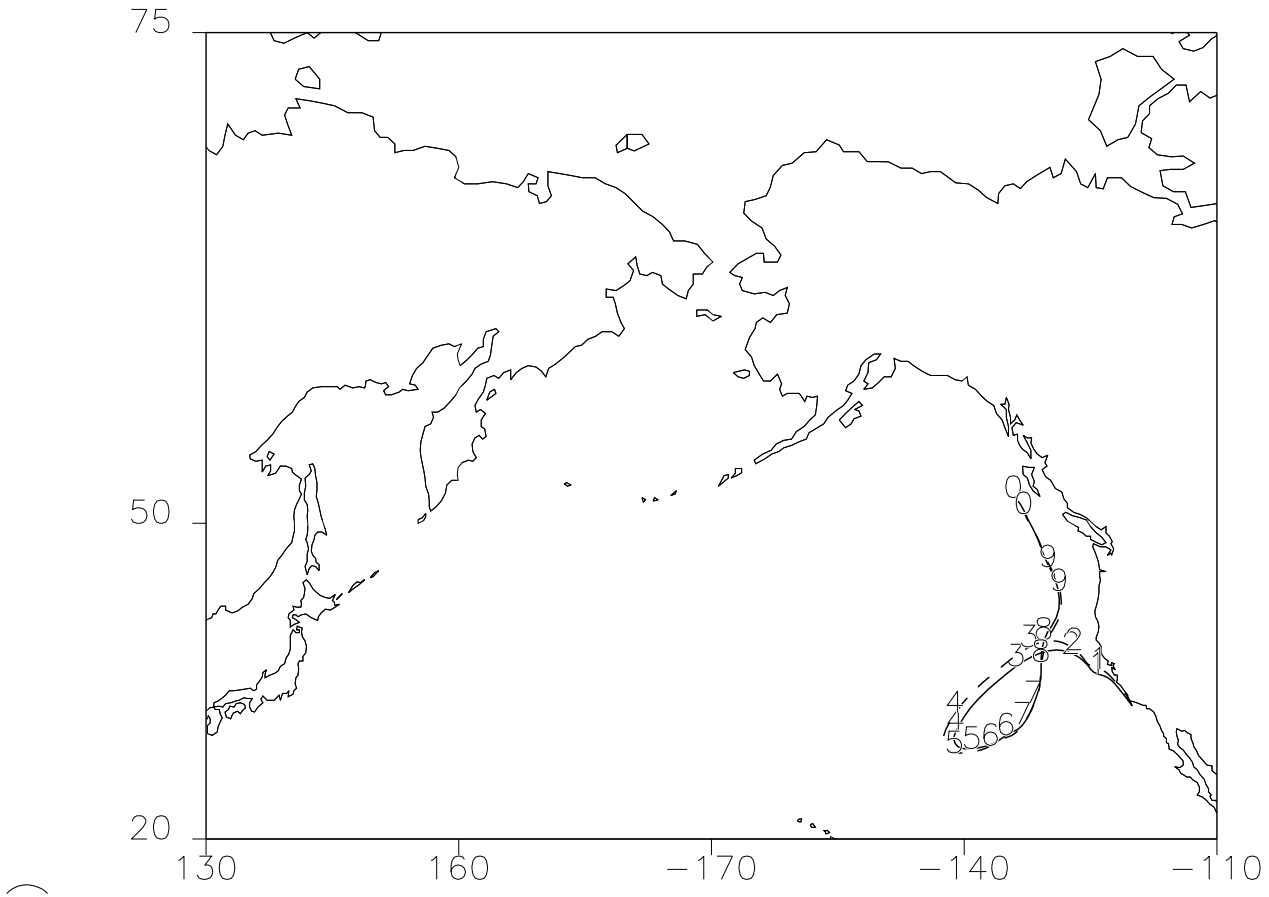
Day	km	hPa	C
0	0.3	980	13
1	0.1	1000	13
2	0.1	1000	13
3	0.3	980	13
4	0.3	987	14
5	0.4	976	12
6	0.6	959	10
7	1.0	910	7
8	2.0	805	0
9	3.4	672	−16
10	5.0	531	−31

18UT

Day	km	hPa	C
0	0.3	981	17
1	0.1	1000	15
2	0.1	1000	12
3	0.3	981	14
4	0.3	985	14
5	0.3	985	13
6	0.5	968	11
7	0.7	946	10
8	1.5	861	3
9	3.3	682	−14
10	4.8	548	−30

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/27/2003 (Day of Year 147)
NCEP/NCAR Reanalysis 1 Data Set

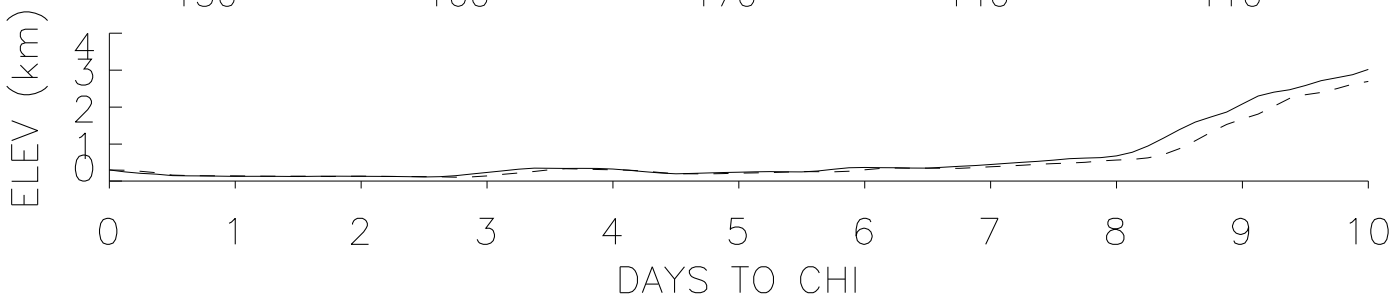


00UT

Day	km	hPa	C
0	0.3	980	18
1	0.1	1000	14
2	0.1	1000	11
3	0.2	988	14
4	0.3	985	15
5	0.2	997	15
6	0.4	983	13
7	0.4	975	11
8	0.7	951	6
9	2.1	796	−6
10	3.0	698	−15

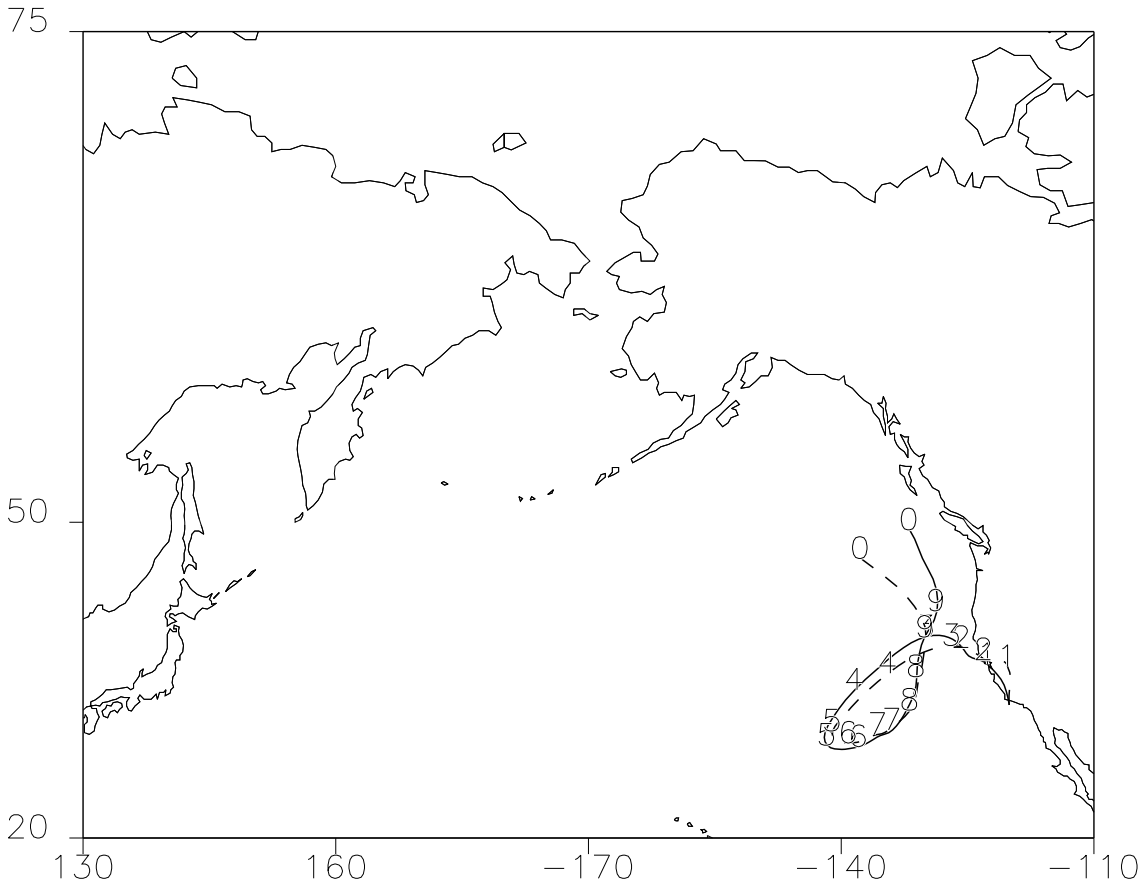
06UT

Day	km	hPa	C
0	0.3	979	18
1	0.1	1000	13
2	0.1	1000	11
3	0.1	997	13
4	0.3	985	14
5	0.2	1000	16
6	0.3	990	13
7	0.4	982	11
8	0.6	963	8
9	1.7	839	−1
10	2.7	730	−12



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/27/2003 (Day of Year 147)
NCEP/NCAR Reanalysis 1 Data Set

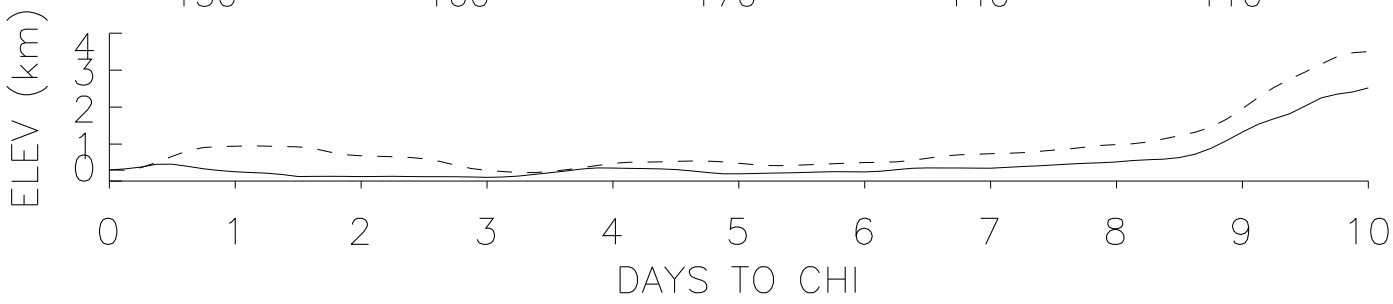


12UT

Day	km	hPa	C
0	0.3	978	18
1	0.3	987	13
2	0.1	1000	12
3	0.1	1000	12
4	0.4	976	13
5	0.2	1000	16
6	0.2	995	14
7	0.3	984	12
8	0.5	967	10
9	1.3	878	2
10	2.5	749	−11

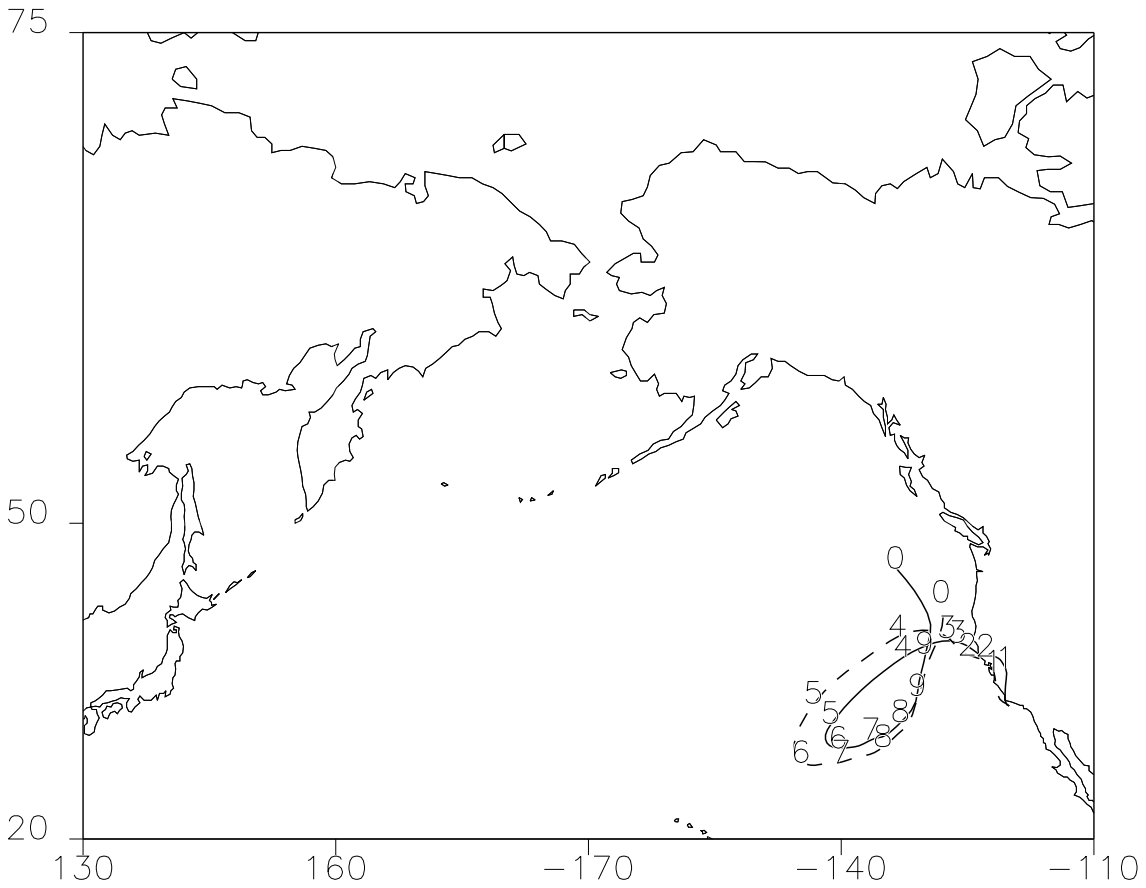
18UT

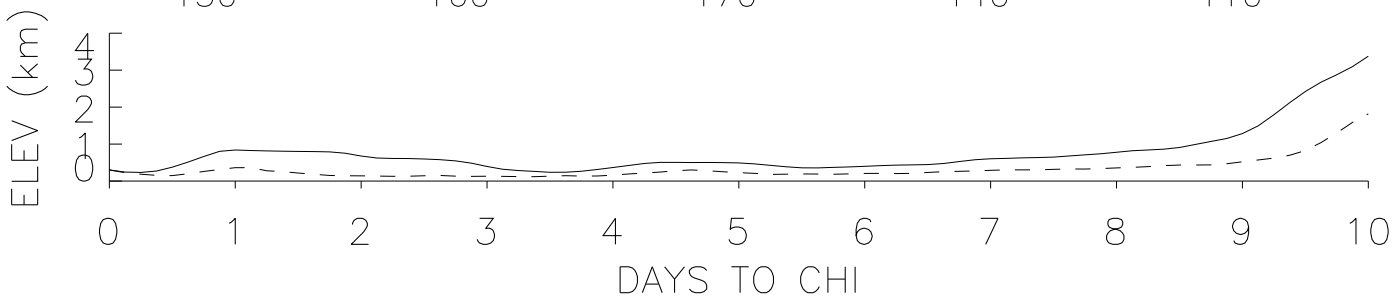
Day	km	hPa	C
0	0.3	980	23
1	0.9	909	20
2	0.7	935	14
3	0.3	980	12
4	0.5	963	12
5	0.5	967	13
6	0.5	967	12
7	0.7	940	10
8	1.0	914	10
9	2.0	813	3
10	3.5	666	−12



12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/28/2003 (Day of Year 148)
NCEP/NCAR Reanalysis 1 Data Set





00UT

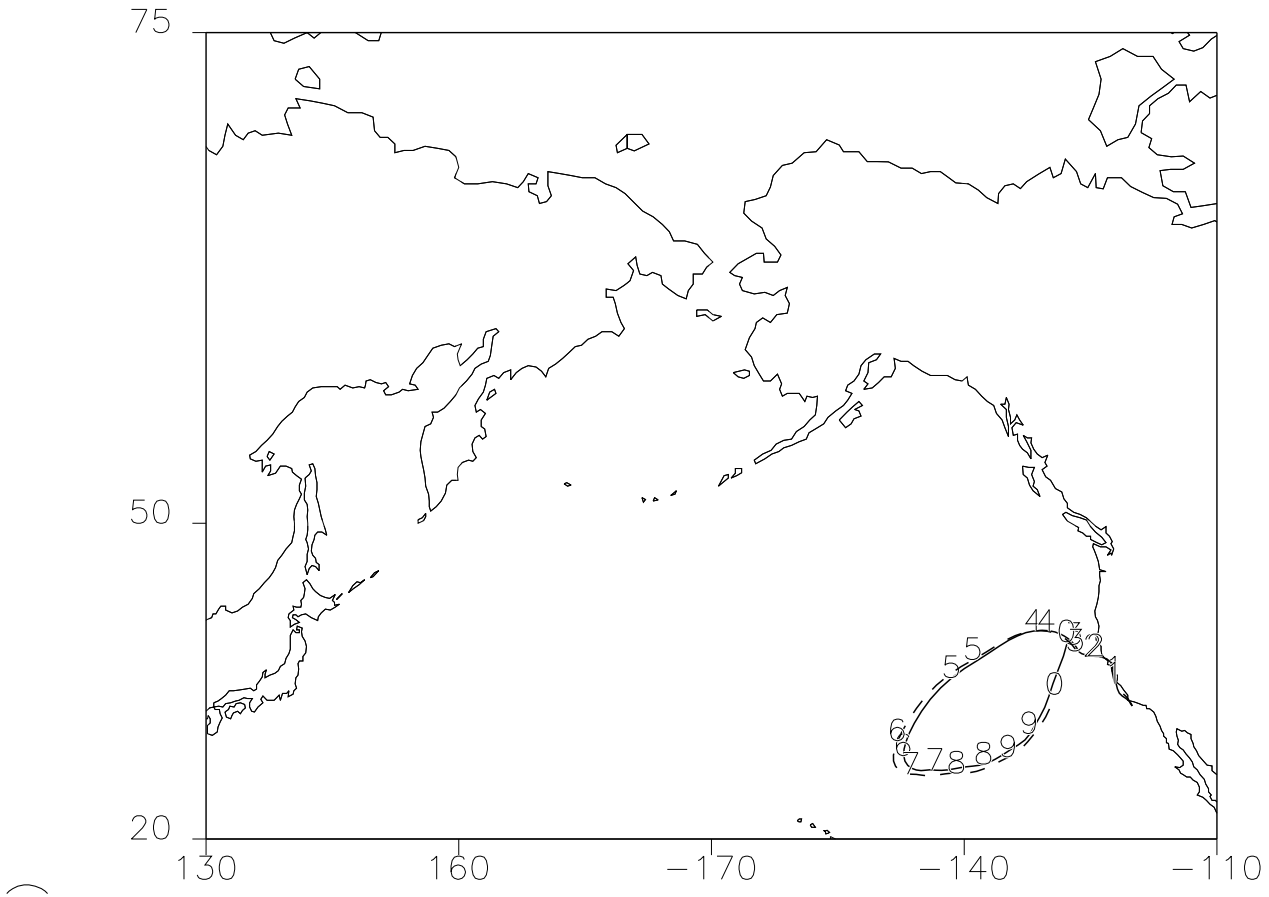
Day	km	hPa	C
0	0.3	978	25
1	0.8	919	24
2	0.7	935	15
3	0.4	967	12
4	0.4	972	12
5	0.5	966	13
6	0.4	978	14
7	0.6	956	11
8	0.8	937	11
9	1.3	883	7
10	3.4	676	−12

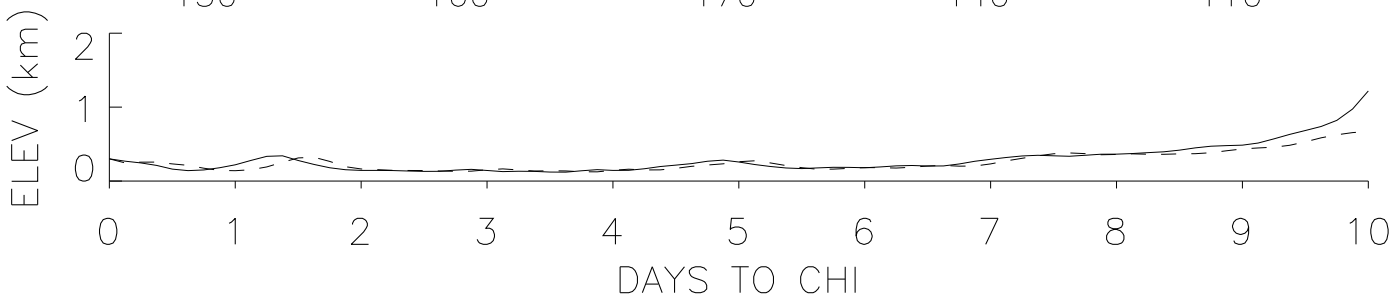
06UT

Day	km	hPa	C
0	0.3	979	20
1	0.4	975	18
2	0.1	1000	12
3	0.1	1000	11
4	0.2	993	12
5	0.2	991	16
6	0.2	1000	17
7	0.3	991	15
8	0.4	985	12
9	0.5	967	10
10	1.8	825	−2

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/28/2003 (Day of Year 148)
NCEP/NCAR Reanalysis 1 Data Set





12UT

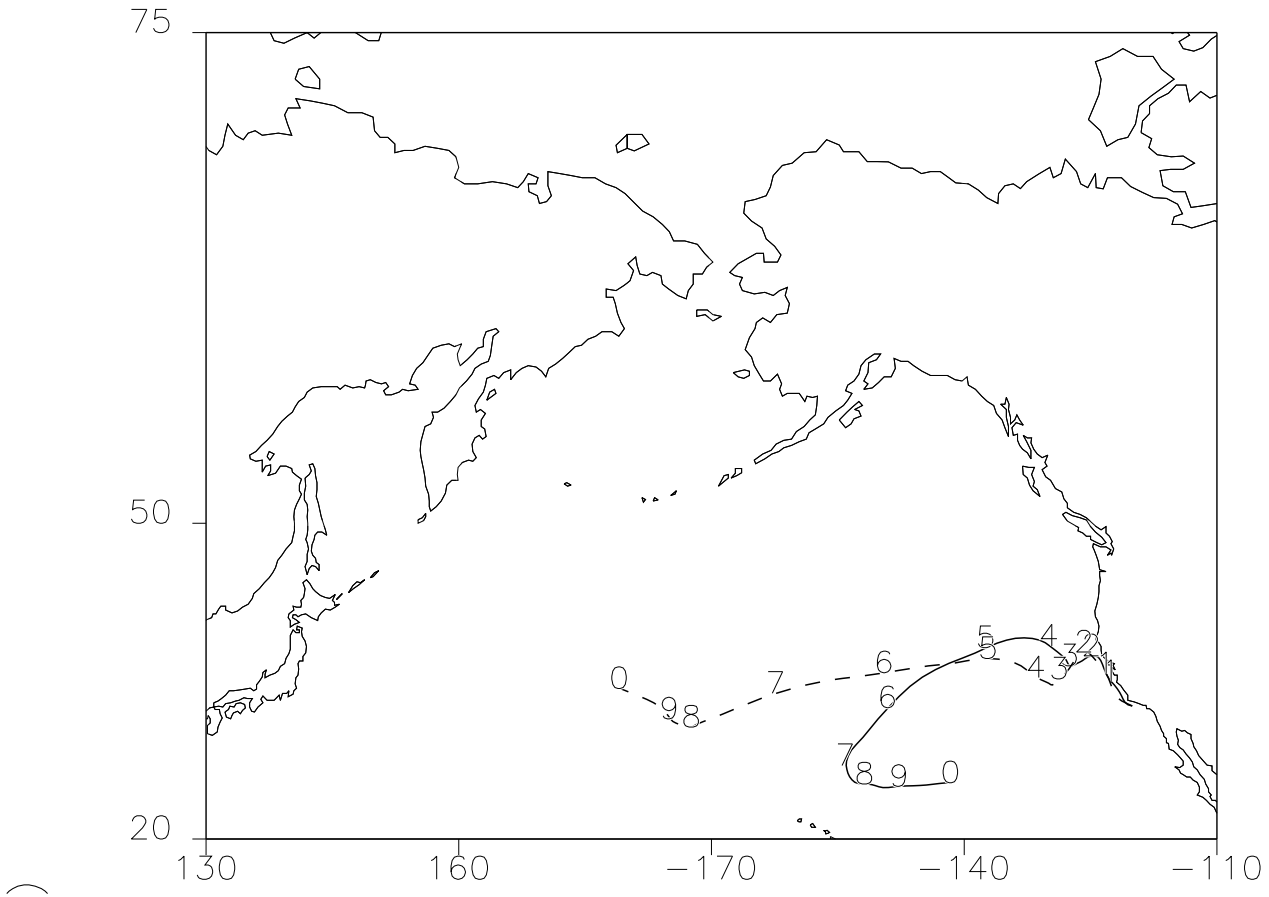
Day	km	hPa	C
0	0.3	978	22
1	0.2	991	16
2	0.1	1000	13
3	0.1	998	11
4	0.1	994	12
5	0.3	983	14
6	0.2	1000	18
7	0.3	989	15
8	0.4	981	13
9	0.5	969	11
10	1.2	888	5

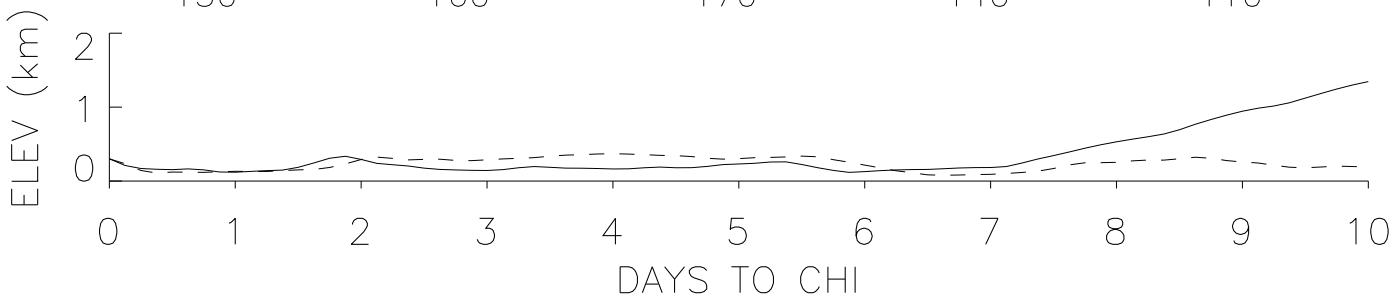
18UT

Day	km	hPa	C
0	0.3	979	27
1	0.1	999	22
2	0.2	1000	15
3	0.2	998	12
4	0.1	996	11
5	0.3	982	14
6	0.2	1000	18
7	0.2	996	17
8	0.4	982	14
9	0.4	975	12
10	0.7	949	8

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/29/2003 (Day of Year 149)
NCEP/NCAR Reanalysis 1 Data Set





00UT

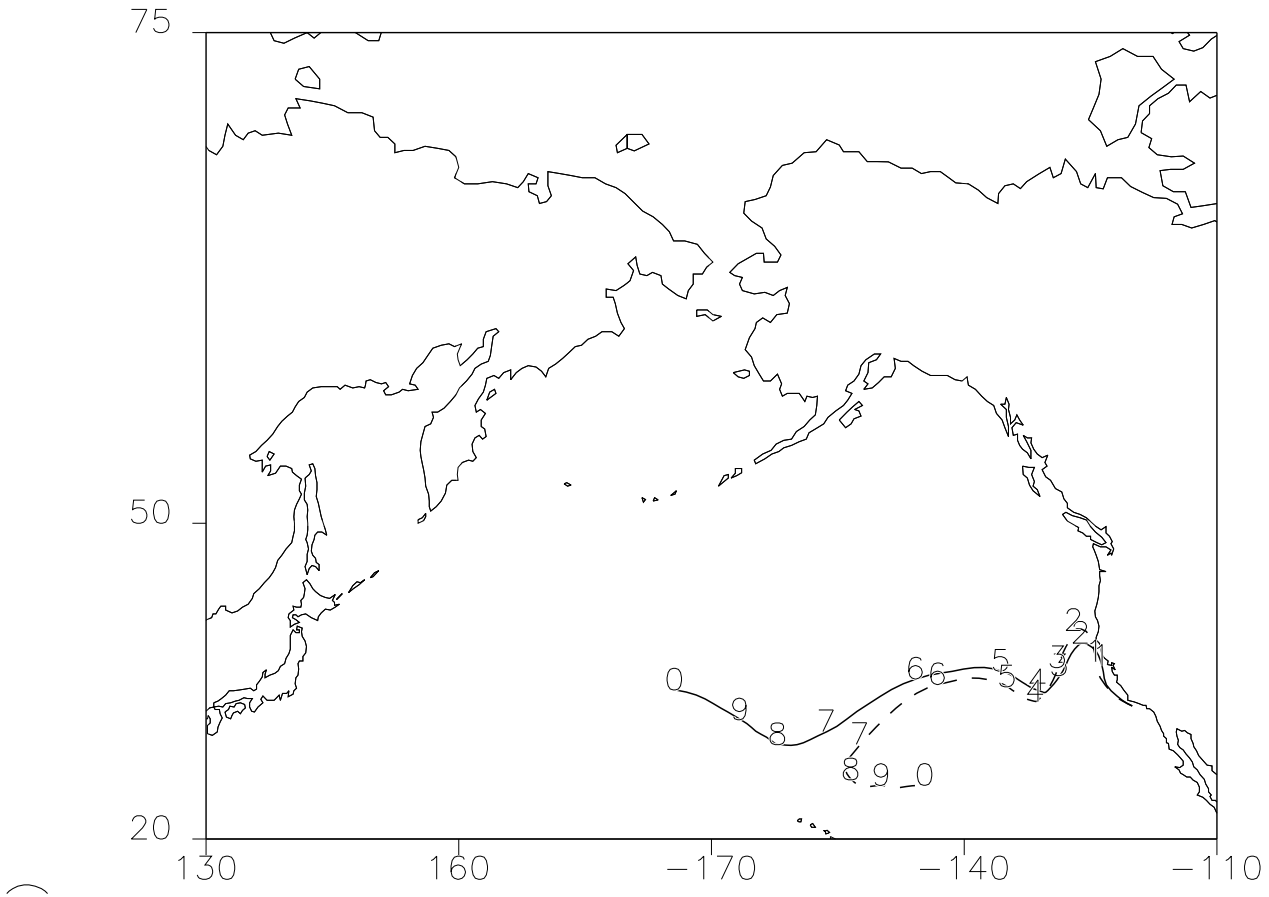
Day	km	hPa	C
0	0.3	976	27
1	0.1	1000	24
2	0.3	985	15
3	0.1	999	11
4	0.2	996	11
5	0.2	985	14
6	0.1	1000	19
7	0.2	1000	21
8	0.5	961	16
9	0.9	916	12
10	1.3	873	13

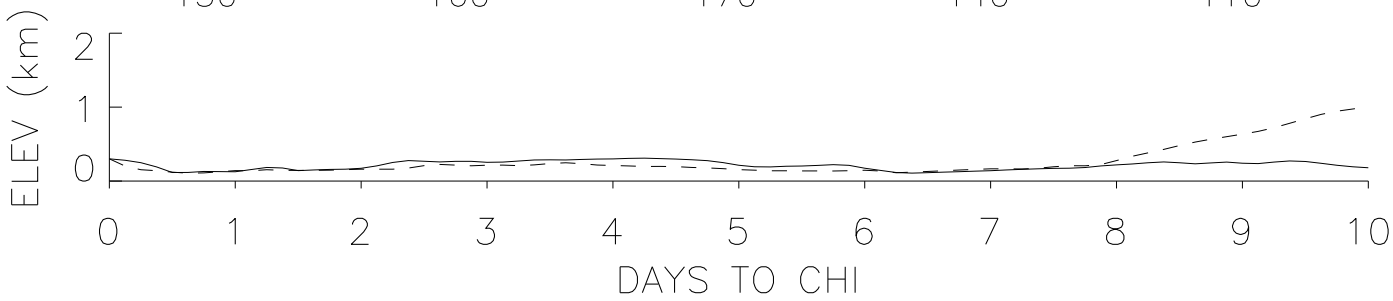
06UT

Day	km	hPa	C
0	0.3	977	21
1	0.1	1000	18
2	0.3	985	13
3	0.3	983	11
4	0.4	974	13
5	0.3	978	13
6	0.2	984	14
7	0.1	1000	18
8	0.3	991	18
9	0.3	992	16
10	0.2	1000	16

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/29/2003 (Day of Year 149)
NCEP/NCAR Reanalysis 1 Data Set





12UT − solid
18UT − dashed

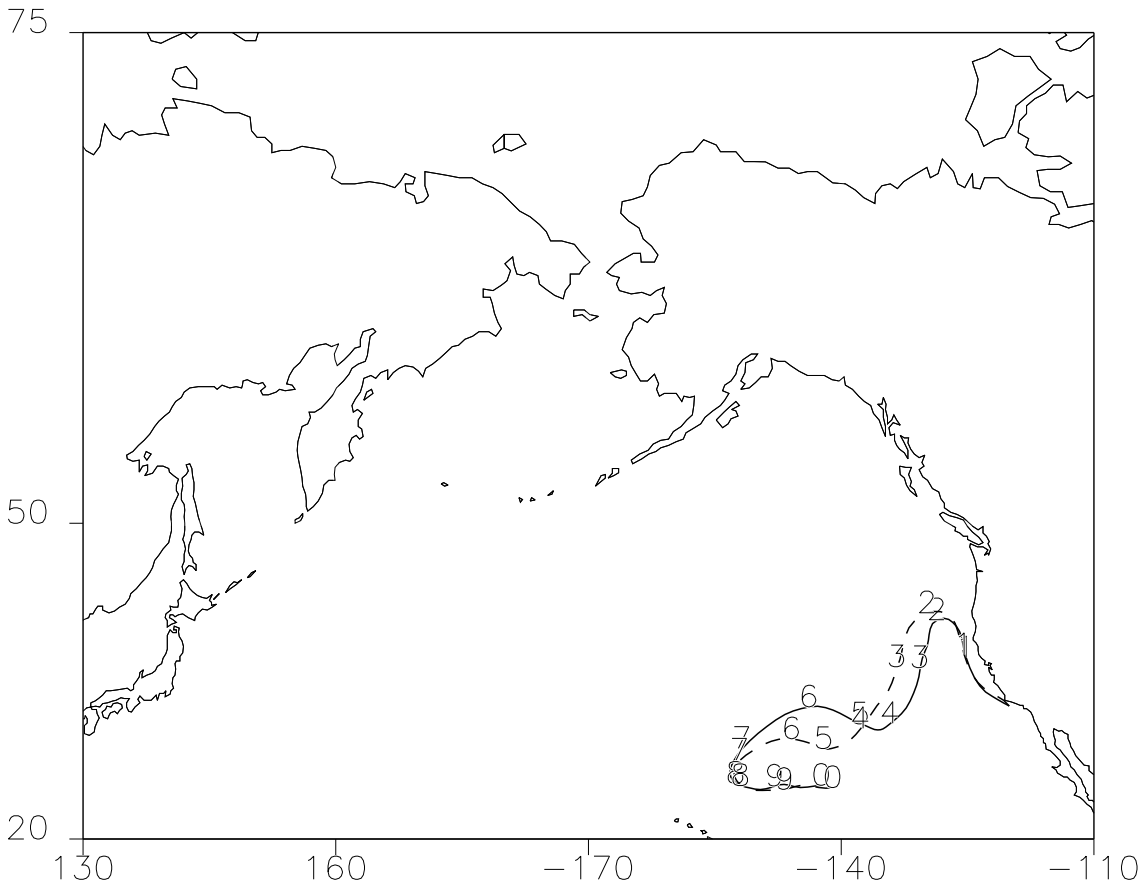
12UT

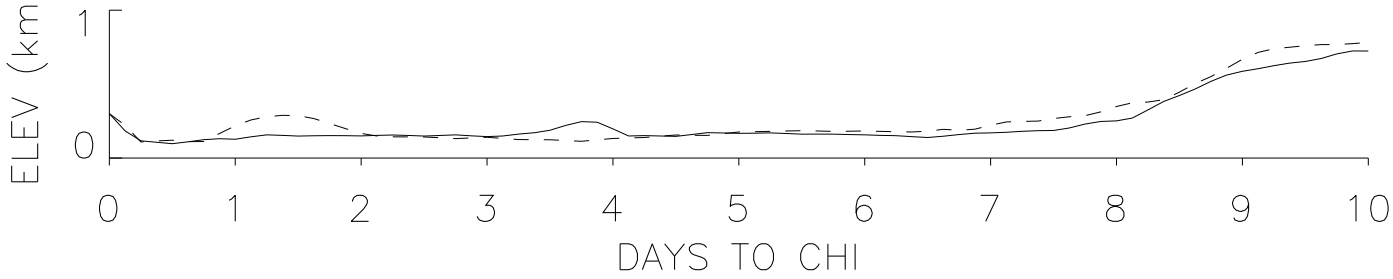
Day	km	hPa	C
0	0.3	976	20
1	0.1	1000	20
2	0.2	999	12
3	0.3	986	12
4	0.3	981	13
5	0.2	990	14
6	0.2	991	15
7	0.1	1000	20
8	0.2	994	20
9	0.2	992	16
10	0.2	1000	15

18UT

Day	km	hPa	C
0	0.3	978	23
1	0.1	1000	21
2	0.2	1000	15
3	0.2	993	12
4	0.2	992	14
5	0.2	1000	15
6	0.1	998	15
7	0.2	1000	20
8	0.3	990	19
9	0.6	950	13
10	1.0	909	12

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/30/2003 (Day of Year 150)
NCEP/NCAR Reanalysis 1 Data Set





00UT

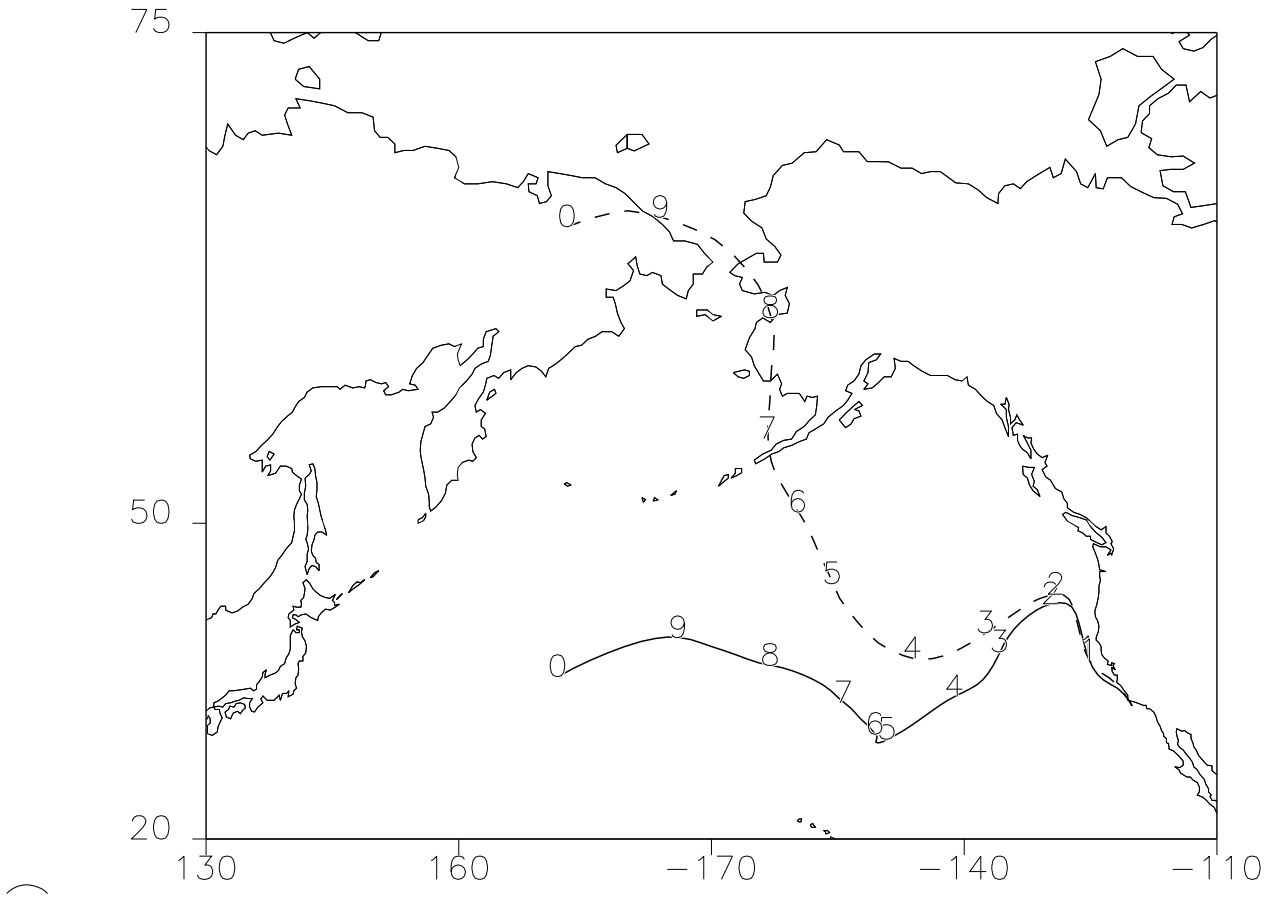
Day	km	hPa	C
0	0.3	977	23
1	0.1	1000	20
2	0.1	1000	14
3	0.1	1000	14
4	0.2	993	16
5	0.2	1000	16
6	0.2	1000	17
7	0.2	1000	20
8	0.3	993	20
9	0.6	955	14
10	0.7	940	12

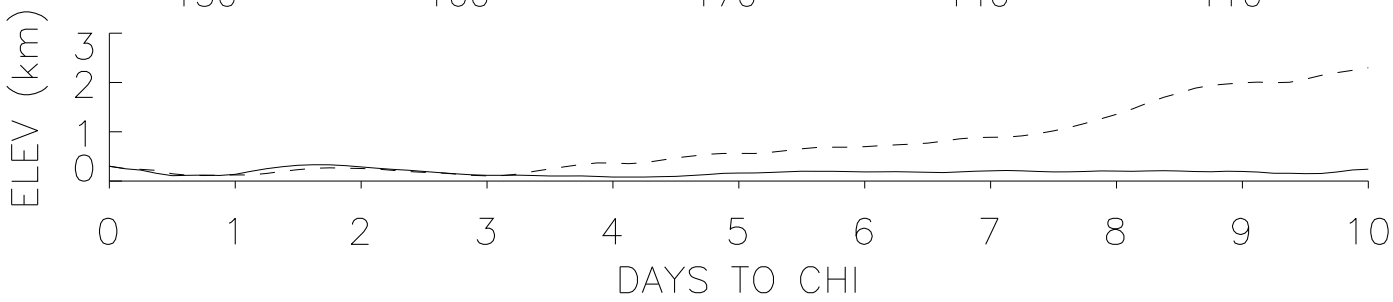
06UT

Day	km	hPa	C
0	0.3	979	17
1	0.2	989	14
2	0.2	998	11
3	0.1	1000	17
4	0.1	1000	18
5	0.2	1000	18
6	0.2	1000	18
7	0.2	994	19
8	0.3	982	18
9	0.7	946	13
10	0.8	933	12

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/30/2003 (Day of Year 150)
NCEP/NCAR Reanalysis 1 Data Set





12UT

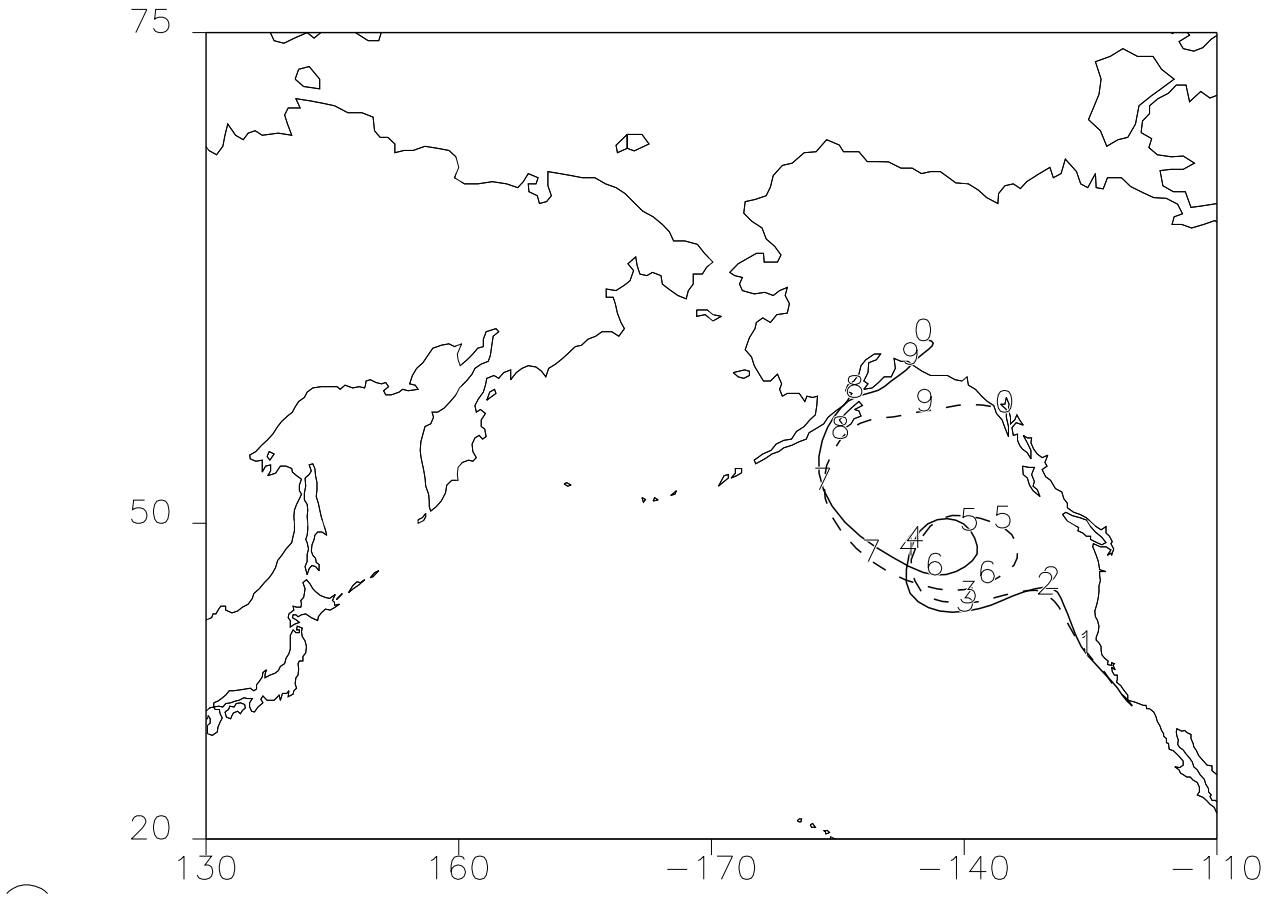
Day	km	hPa	C
0	0.3	978	14
1	0.1	997	14
2	0.3	984	11
3	0.1	999	15
4	0.1	1000	16
5	0.2	999	19
6	0.2	1000	17
7	0.2	992	15
8	0.2	984	13
9	0.2	978	13
10	0.2	987	18

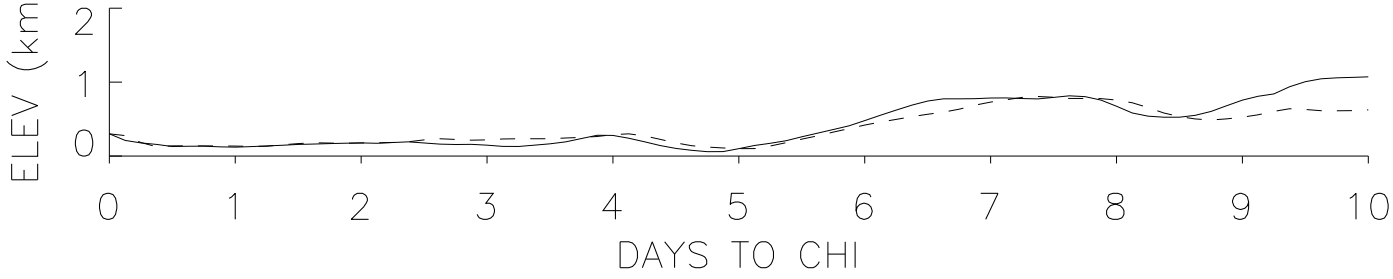
18UT

Day	km	hPa	C
0	0.3	978	20
1	0.1	1000	16
2	0.3	990	11
3	0.1	1000	14
4	0.4	965	9
5	0.6	938	2
6	0.7	921	1
7	0.9	905	1
8	1.4	855	−4
9	2.0	790	−9
10	2.3	758	−10

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/31/2003 (Day of Year 151)
NCEP/NCAR Reanalysis 1 Data Set





00UT

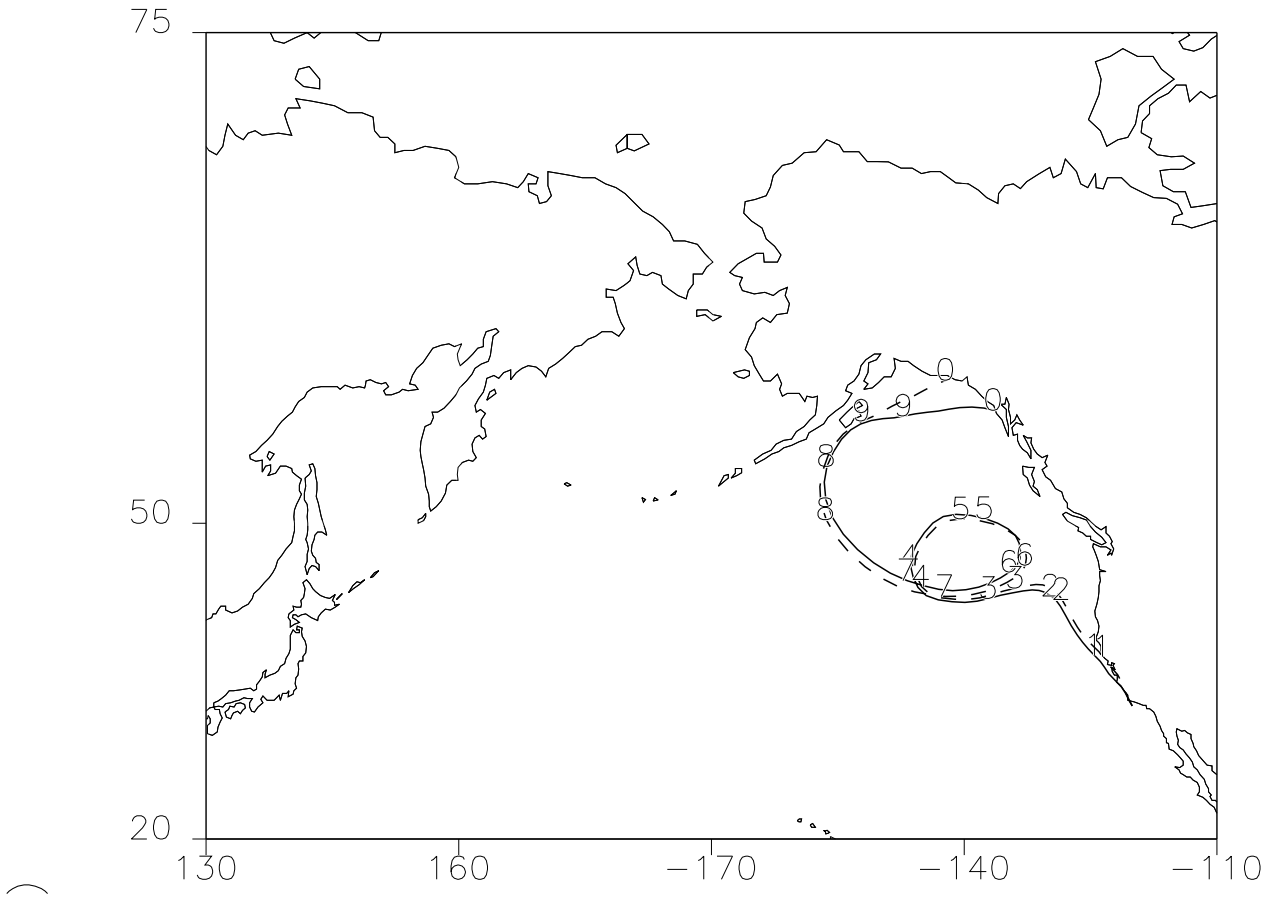
Day	km	hPa	C
0	0.3	977	20
1	0.1	1000	17
2	0.2	1000	10
3	0.1	995	11
4	0.3	972	7
5	0.1	993	8
6	0.5	950	6
7	0.8	911	3
8	0.7	925	6
9	0.8	922	9
10	1.1	895	6

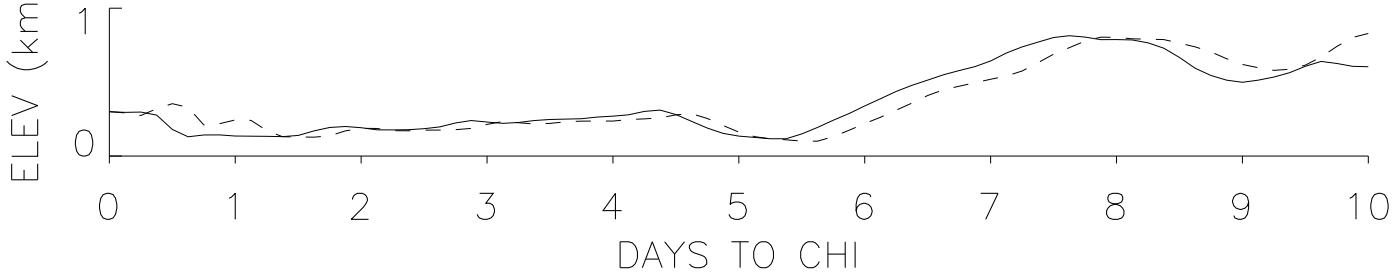
06UT

Day	km	hPa	C
0	0.3	978	17
1	0.1	1000	12
2	0.2	1000	10
3	0.2	987	9
4	0.3	971	6
5	0.1	997	9
6	0.4	960	7
7	0.7	918	4
8	0.8	913	5
9	0.5	941	7
10	0.6	943	6

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
5/31/2003 (Day of Year 151)
NCEP/NCAR Reanalysis 1 Data Set





12UT

Day	km	hPa	C
0	0.3	978	15
1	0.1	1000	13
2	0.2	997	11
3	0.2	988	10
4	0.3	975	8
5	0.1	991	8
6	0.3	969	7
7	0.6	930	6
8	0.8	909	3
9	0.5	942	8
10	0.6	942	5

18UT

Day	km	hPa	C
0	0.3	979	20
1	0.2	988	16
2	0.2	996	11
3	0.2	993	10
4	0.2	979	8
5	0.2	985	8
6	0.2	985	8
7	0.5	947	7
8	0.8	909	4
9	0.6	929	7
10	0.8	914	7

12UT − solid
18UT − dashed