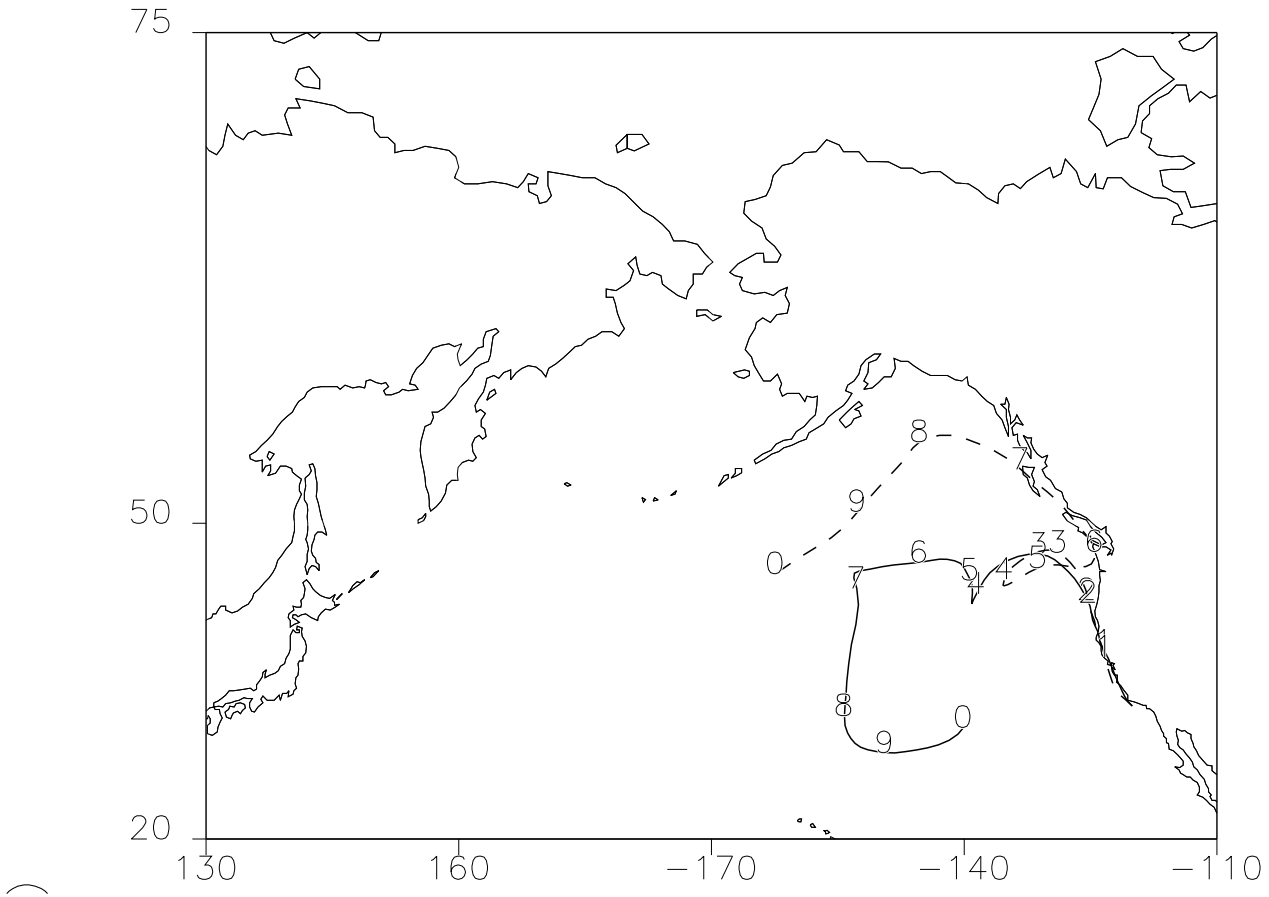
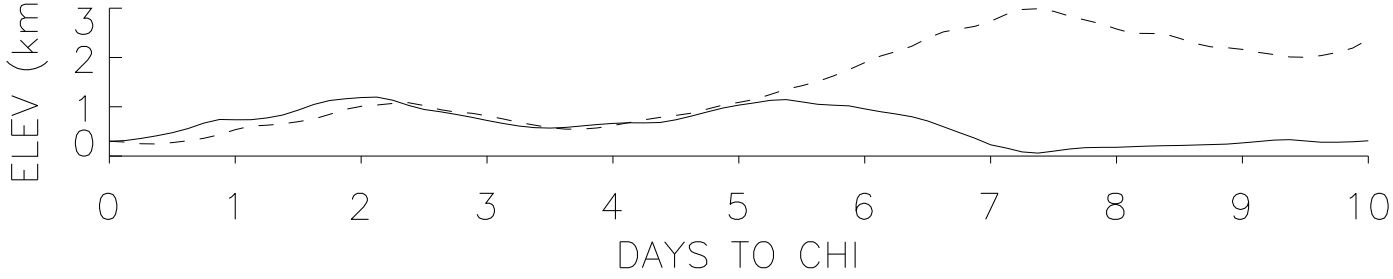
3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/1/2003 (Day of Year 60)
NCEP/NCAR Reanalysis 1 Data Set





00UT

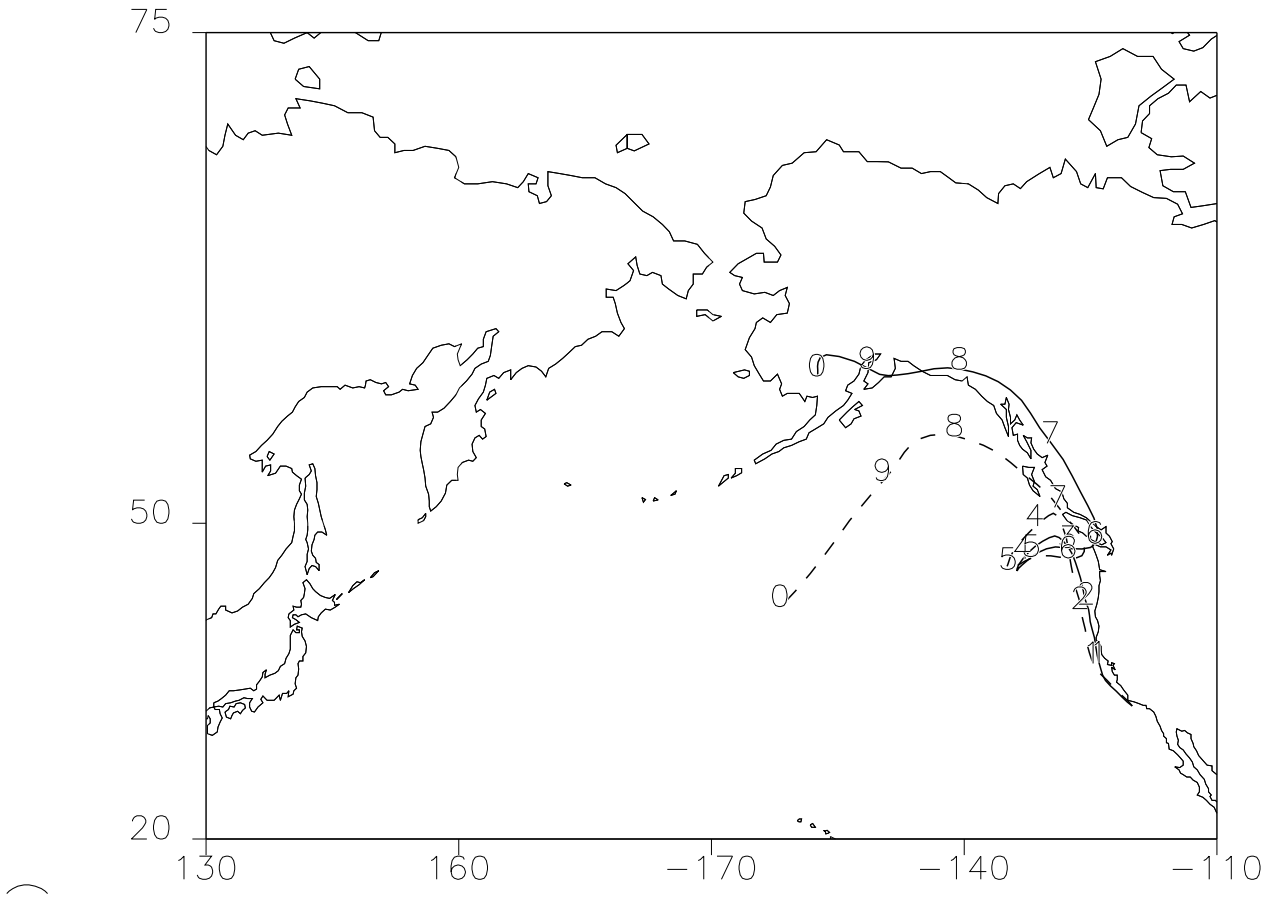
Day	km	hPa	C
0	0.3	979	11
1	0.7	929	6
2	1.2	875	1
3	0.7	927	5
4	0.7	943	6
5	1.0	895	1
6	1.0	891	3
7	0.2	965	7
8	0.2	1000	17
9	0.3	997	17
10	0.3	992	14

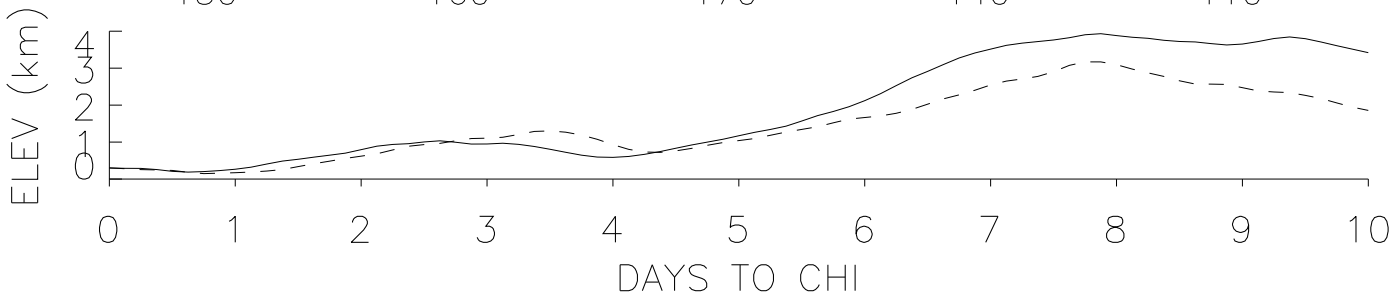
06UT

Day	km	hPa	C
0	0.3	982	11
1	0.5	954	7
2	1.0	897	2
3	0.8	914	4
4	0.6	947	5
5	1.1	889	1
6	1.9	805	−6
7	2.7	721	−13
8	2.6	728	−13
9	2.2	766	−6
10	2.4	746	−6

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/1/2003 (Day of Year 60)
NCEP/NCAR Reanalysis 1 Data Set





12UT

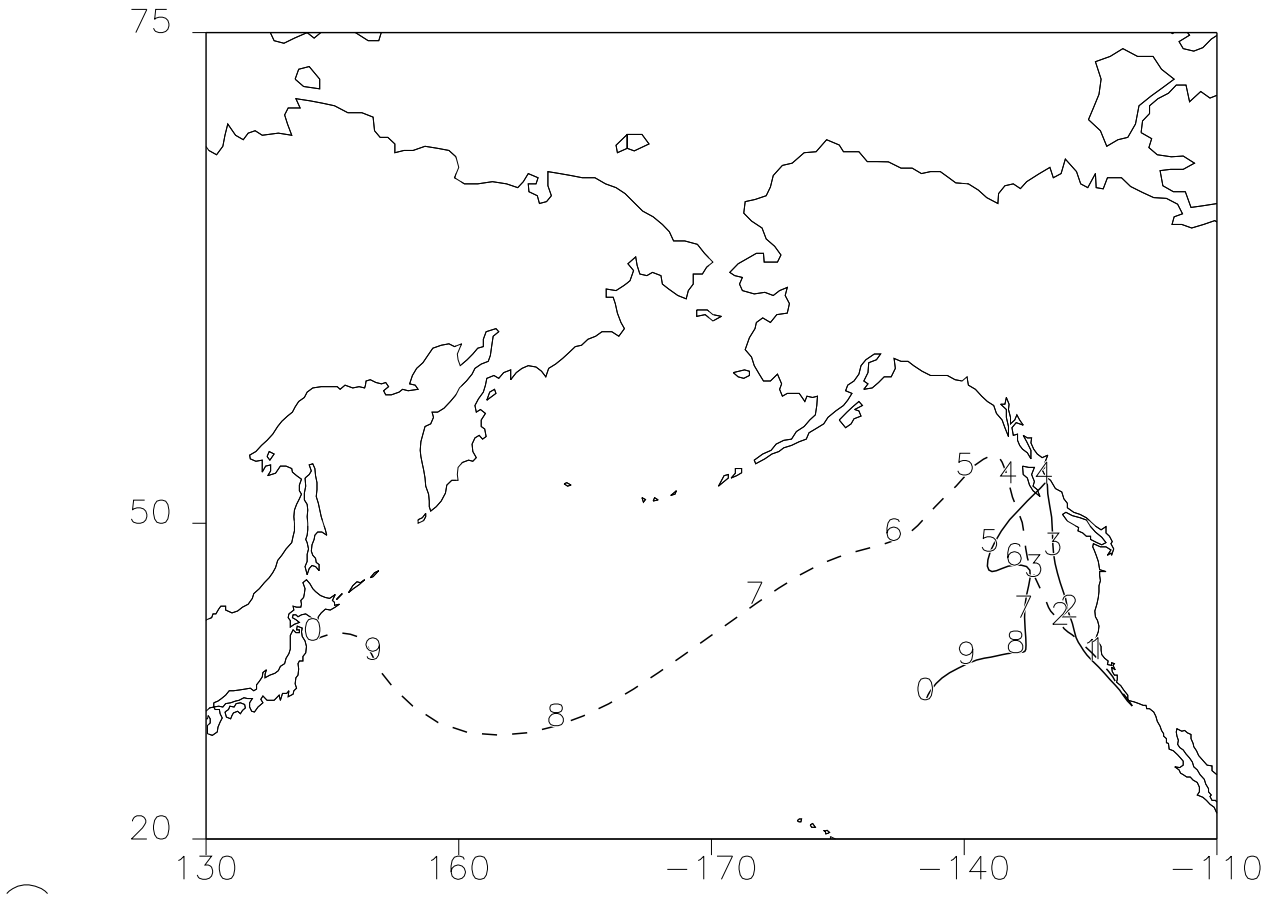
Day	km	hPa	C
0	0.3	980	10
1	0.3	986	8
2	0.8	921	2
3	0.9	898	2
4	0.6	948	5
5	1.2	883	1
6	2.1	782	−8
7	3.5	648	−20
8	3.9	608	−24
9	3.7	625	−20
10	3.4	646	−18

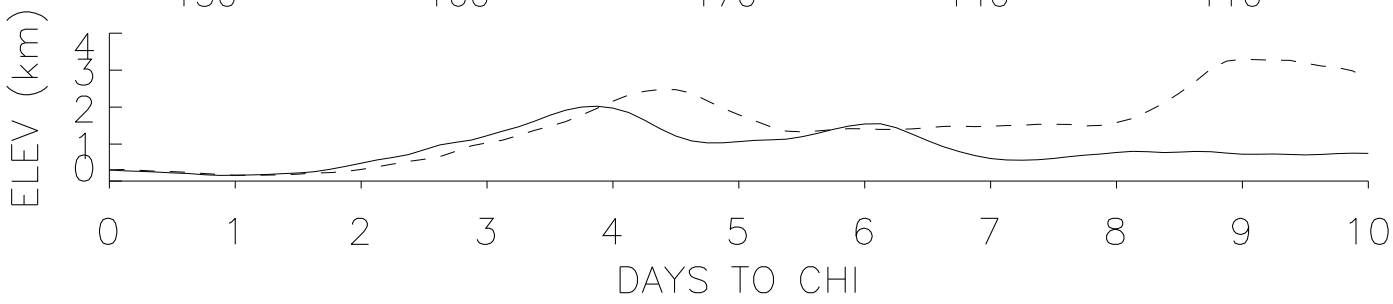
18UT

Day	km	hPa	C
0	0.3	981	11
1	0.2	999	9
2	0.6	945	4
3	1.1	883	0
4	0.9	904	2
5	1.0	900	2
6	1.7	828	−3
7	2.5	741	−10
8	3.1	684	−16
9	2.5	735	−11
10	1.9	797	−2

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/2/2003 (Day of Year 61)
NCEP/NCAR Reanalysis 1 Data Set





00UT

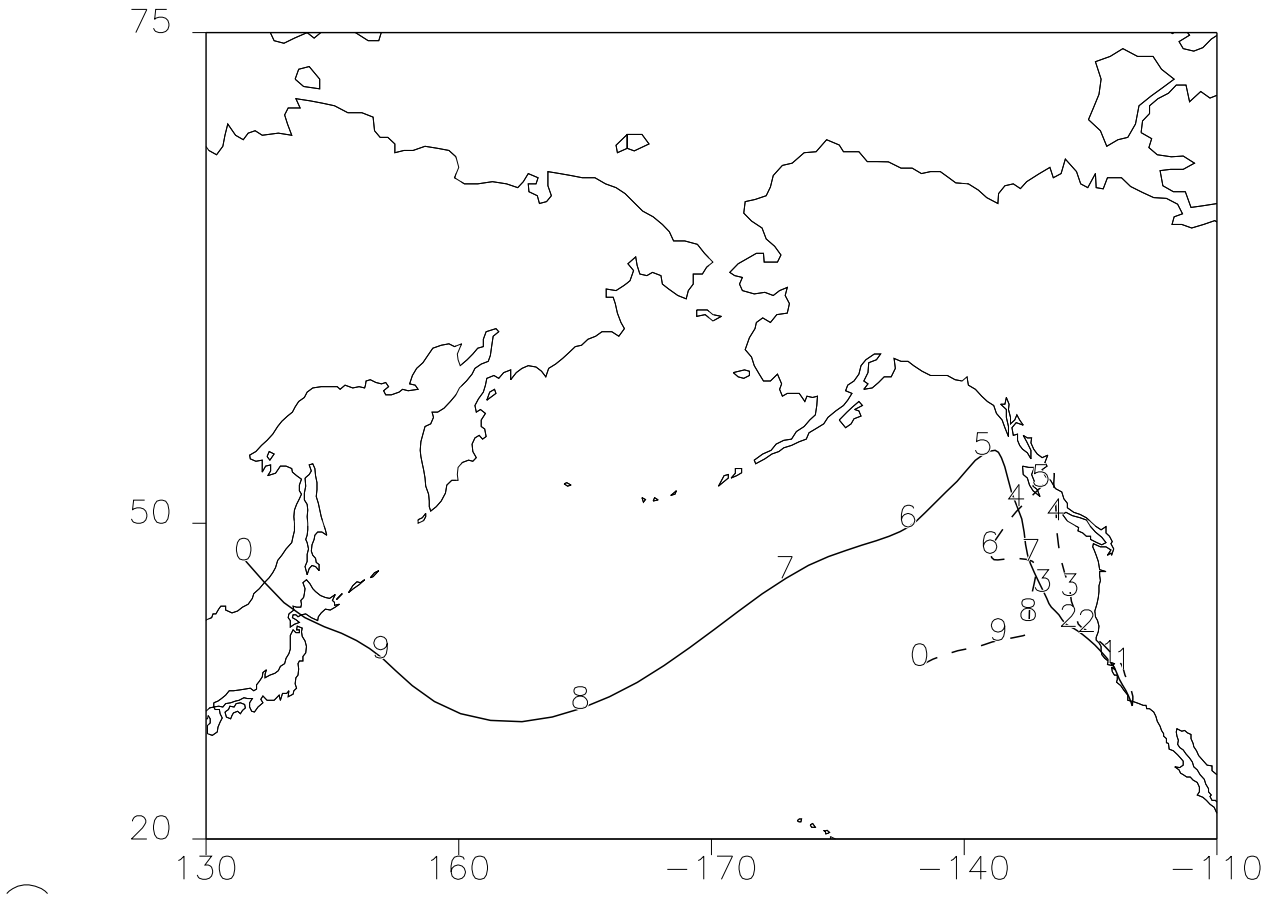
Day	km	hPa	C
0	0.3	980	12
1	0.2	1000	10
2	0.5	962	6
3	1.2	873	1
4	2.0	790	−7
5	1.1	896	3
6	1.5	839	−2
7	0.6	947	6
8	0.8	938	7
9	0.7	944	8
10	0.7	945	10

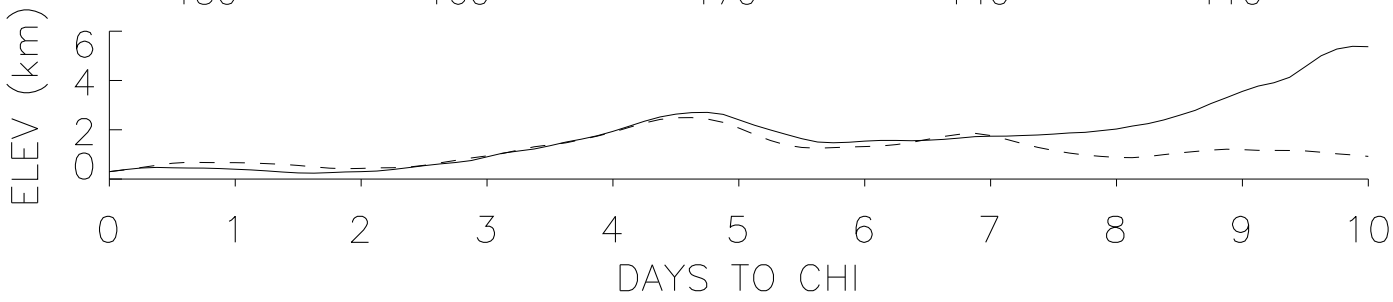
06UT

Day	km	hPa	C
0	0.3	983	11
1	0.2	1000	11
2	0.3	984	8
3	1.0	897	2
4	2.2	773	−6
5	1.8	810	−1
6	1.4	853	4
7	1.5	838	5
8	1.6	825	3
9	3.3	656	−20
10	2.8	711	−16

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/2/2003 (Day of Year 61)
NCEP/NCAR Reanalysis 1 Data Set





12UT

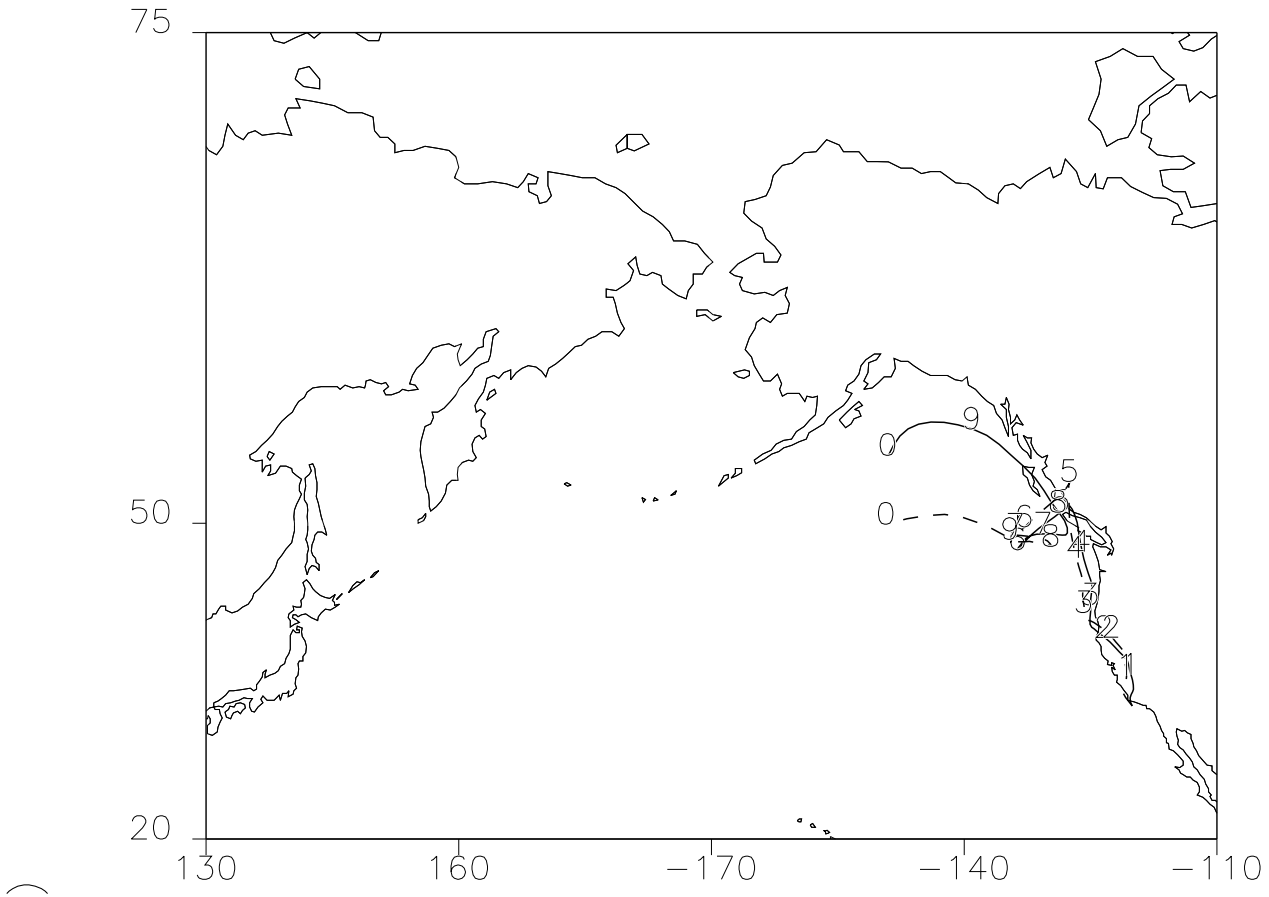
Day	km	hPa	C
0	0.3	983	9
1	0.4	969	8
2	0.3	984	7
3	0.9	913	2
4	1.9	798	−3
5	2.4	747	−7
6	1.5	841	3
7	1.7	813	3
8	2.0	779	−2
9	3.6	634	−23
10	5.4	493	−36

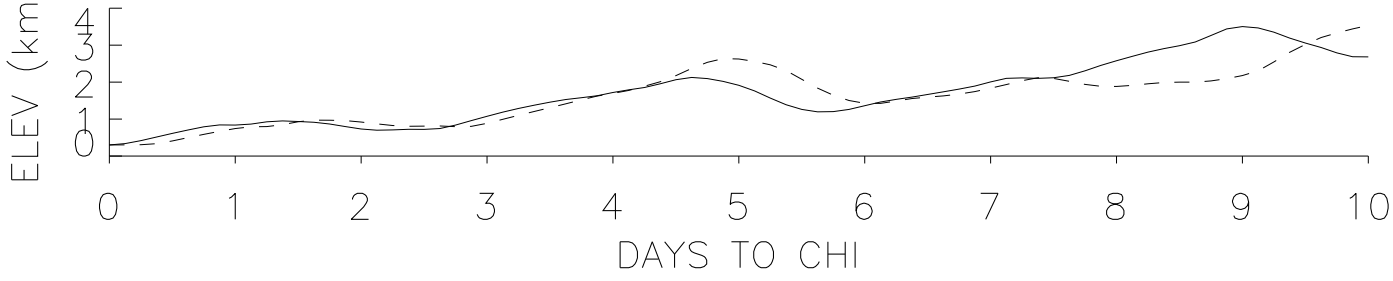
18UT

Day	km	hPa	C
0	0.3	985	11
1	0.7	939	7
2	0.4	967	6
3	0.9	908	2
4	1.9	799	−5
5	2.1	782	−6
6	1.3	870	1
7	1.8	816	−1
8	0.9	921	4
9	1.2	892	6
10	0.9	922	9

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/3/2003 (Day of Year 62)
NCEP/NCAR Reanalysis 1 Data Set





00UT

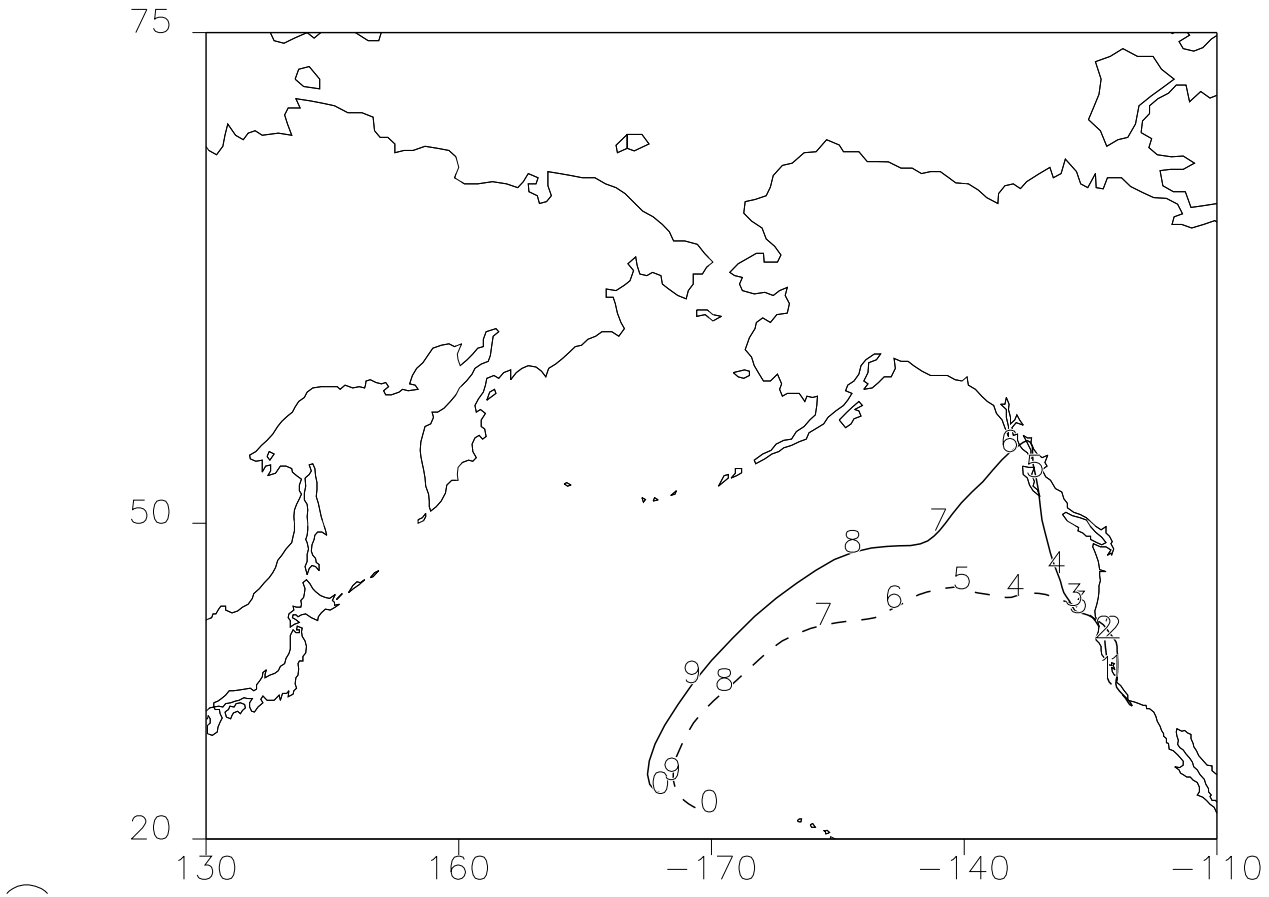
Day	km	hPa	C
0	0.3	983	13
1	0.8	919	8
2	0.7	931	6
3	1.1	893	2
4	1.7	818	−3
5	1.9	797	−6
6	1.4	865	2
7	2.0	793	−4
8	2.6	739	−10
9	3.5	649	−18
10	2.7	715	−14

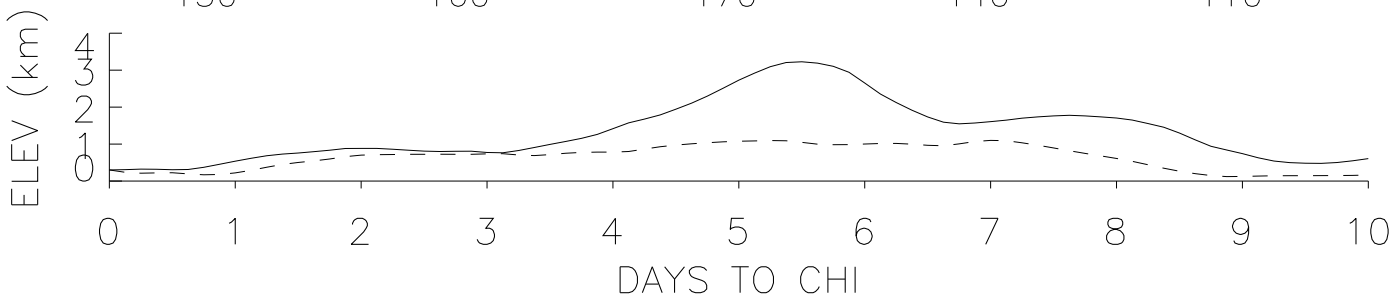
06UT

Day	km	hPa	C
0	0.3	984	11
1	0.7	932	6
2	0.9	910	4
3	0.9	915	3
4	1.7	823	−2
5	2.6	725	−11
6	1.4	856	2
7	1.8	812	−2
8	1.9	807	−2
9	2.2	782	−5
10	3.5	645	−17

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/3/2003 (Day of Year 62)
NCEP/NCAR Reanalysis 1 Data Set





12UT

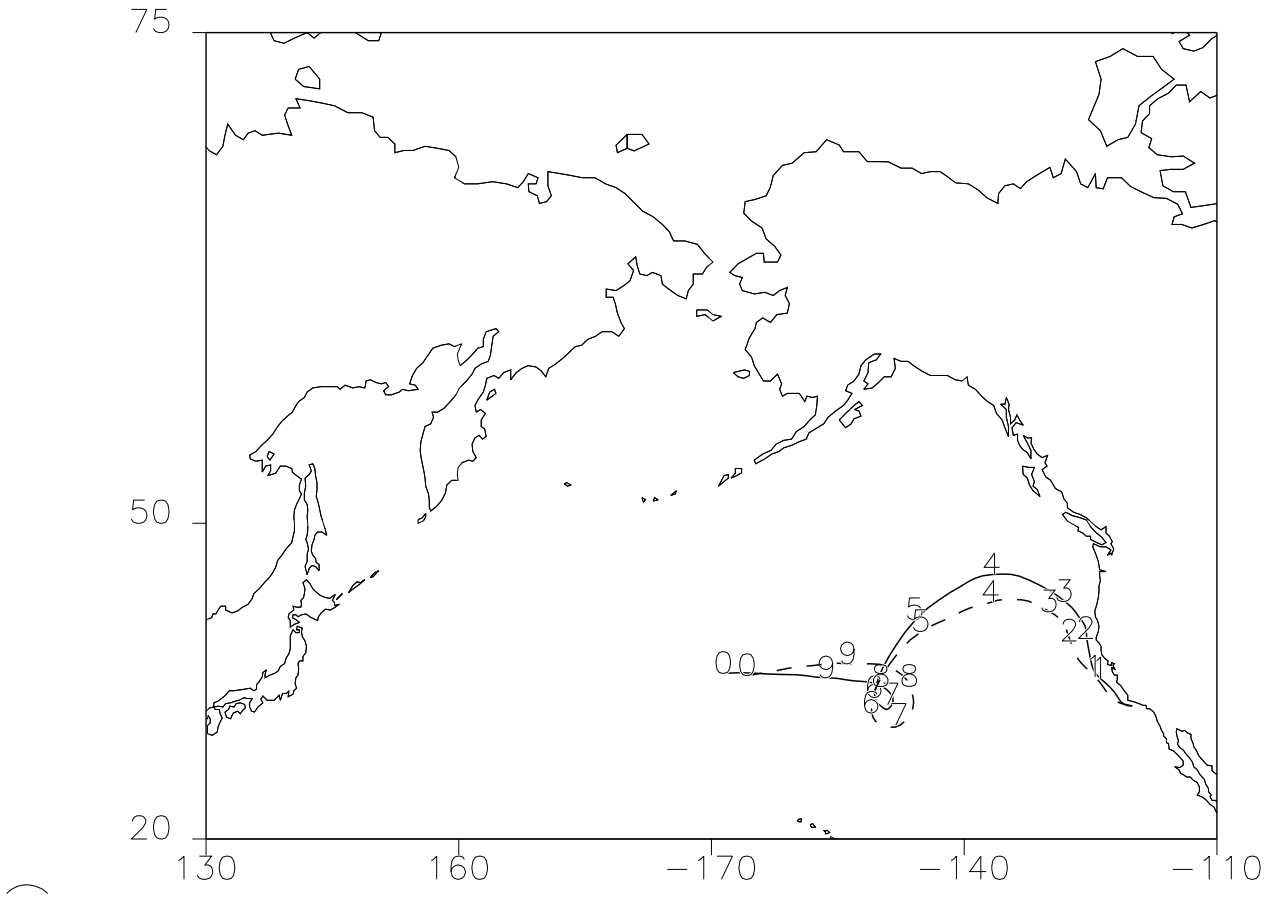
Day	km	hPa	C
0	0.3	980	11
1	0.5	957	6
2	0.9	914	3
3	0.8	927	3
4	1.4	855	1
5	2.7	719	−9
6	2.7	725	−9
7	1.6	836	1
8	1.7	819	3
9	0.7	922	14
10	0.6	950	18

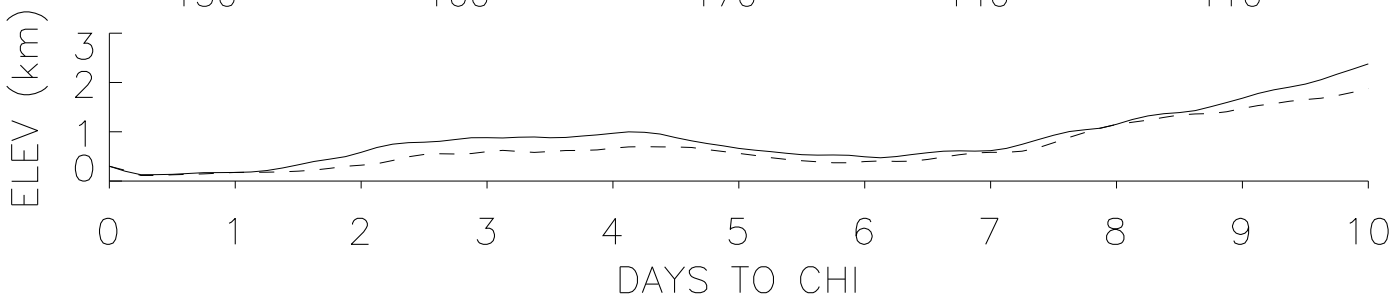
18UT

Day	km	hPa	C
0	0.3	979	12
1	0.2	996	10
2	0.7	937	6
3	0.7	931	4
4	0.8	928	5
5	1.1	897	5
6	1.0	909	8
7	1.1	893	8
8	0.6	941	13
9	0.1	1000	21
10	0.2	999	20

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/4/2003 (Day of Year 63)
NCEP/NCAR Reanalysis 1 Data Set





00UT

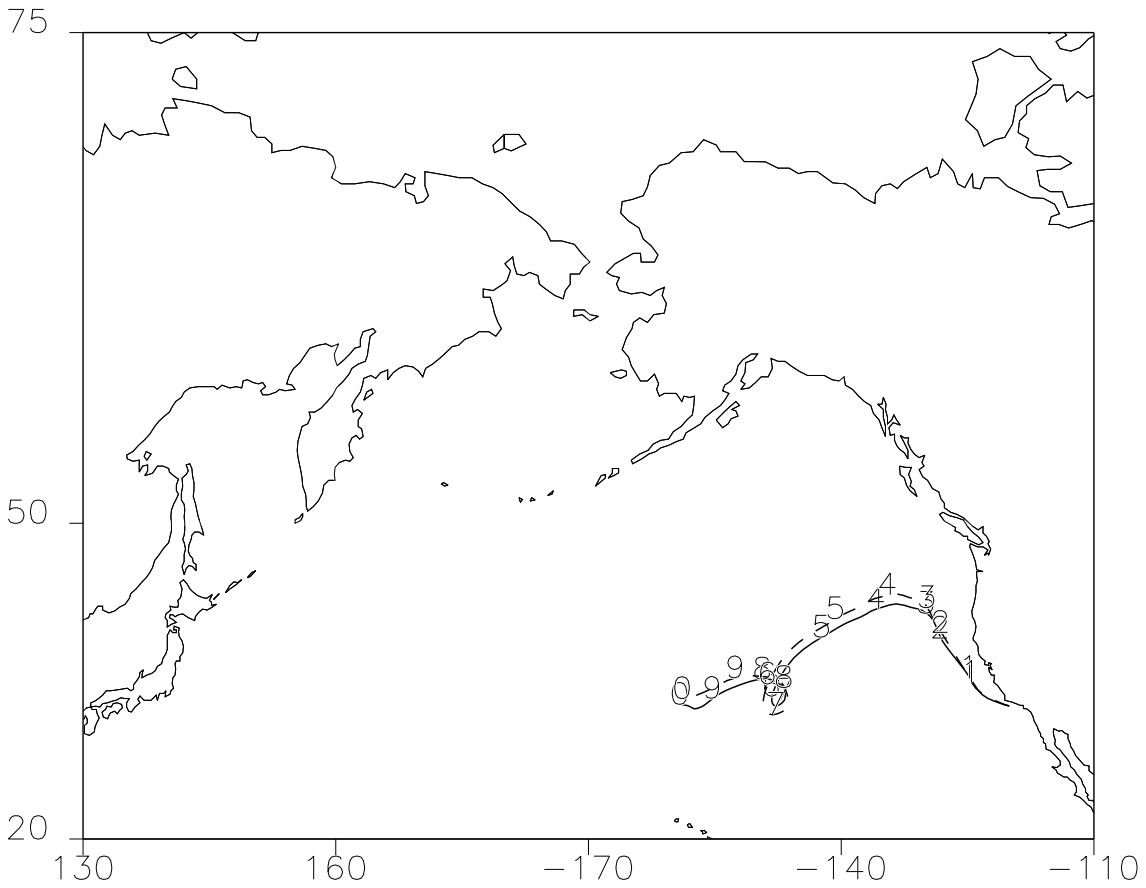
Day	km	hPa	C
0	0.3	975	12
1	0.2	1000	12
2	0.6	951	8
3	0.9	915	5
4	1.0	906	6
5	0.7	940	11
6	0.5	969	13
7	0.6	954	12
8	1.2	894	10
9	1.7	834	8
10	2.4	760	0

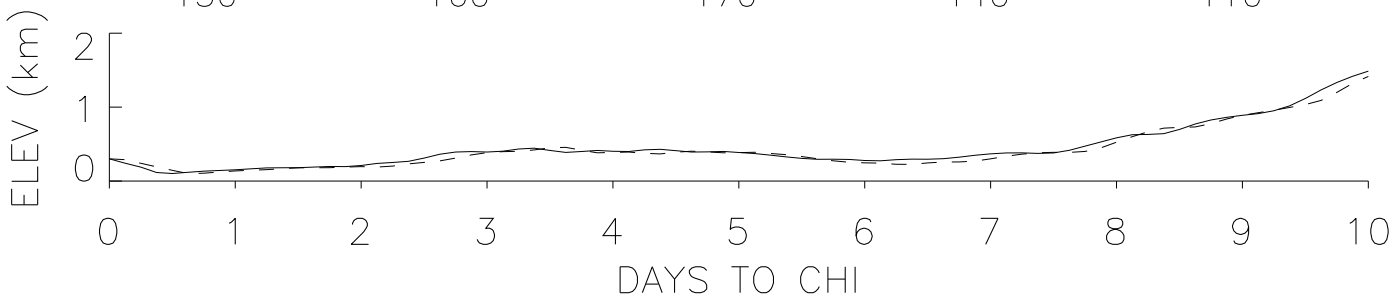
06UT

Day	km	hPa	C
0	0.3	976	10
1	0.2	1000	11
2	0.3	983	10
3	0.6	949	8
4	0.7	942	8
5	0.6	953	11
6	0.4	980	15
7	0.6	959	12
8	1.1	894	9
9	1.5	855	8
10	1.9	809	4

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/4/2003 (Day of Year 63)
NCEP/NCAR Reanalysis 1 Data Set





12UT

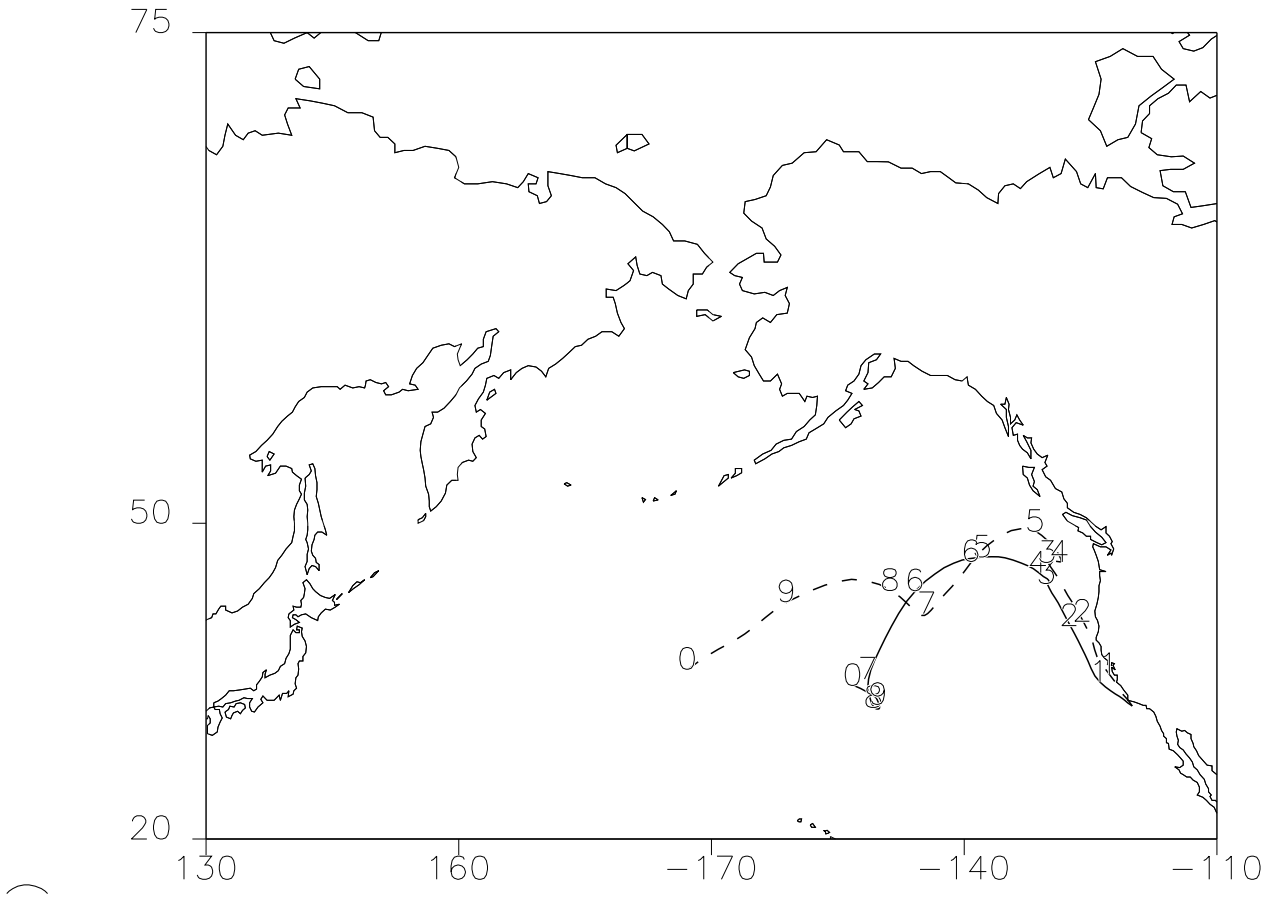
Day	km	hPa	C
0	0.3	974	9
1	0.2	1000	11
2	0.2	997	11
3	0.4	972	8
4	0.4	972	8
5	0.4	974	11
6	0.3	992	15
7	0.4	984	12
8	0.6	958	11
9	0.9	922	9
10	1.5	854	8

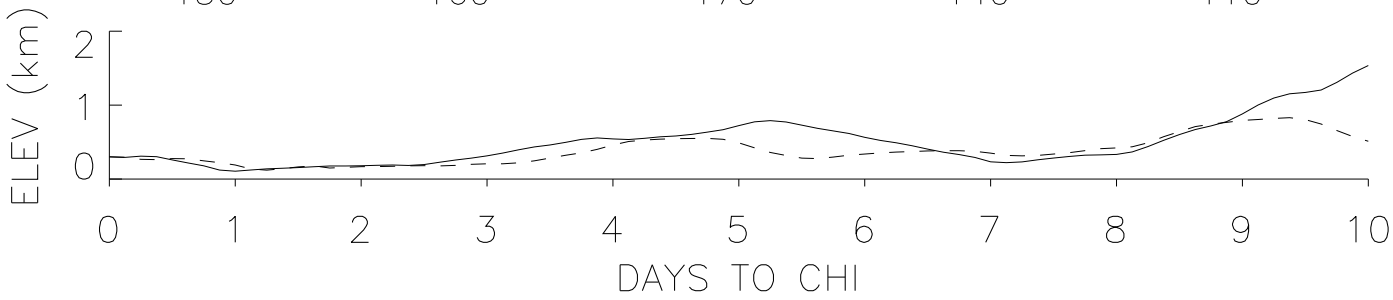
18UT

Day	km	hPa	C
0	0.3	975	10
1	0.1	1000	11
2	0.2	1000	10
3	0.4	974	9
4	0.4	973	9
5	0.4	974	11
6	0.2	995	14
7	0.3	991	14
8	0.5	965	10
9	0.9	922	9
10	1.4	862	8

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/5/2003 (Day of Year 64)
NCEP/NCAR Reanalysis 1 Data Set





00UT

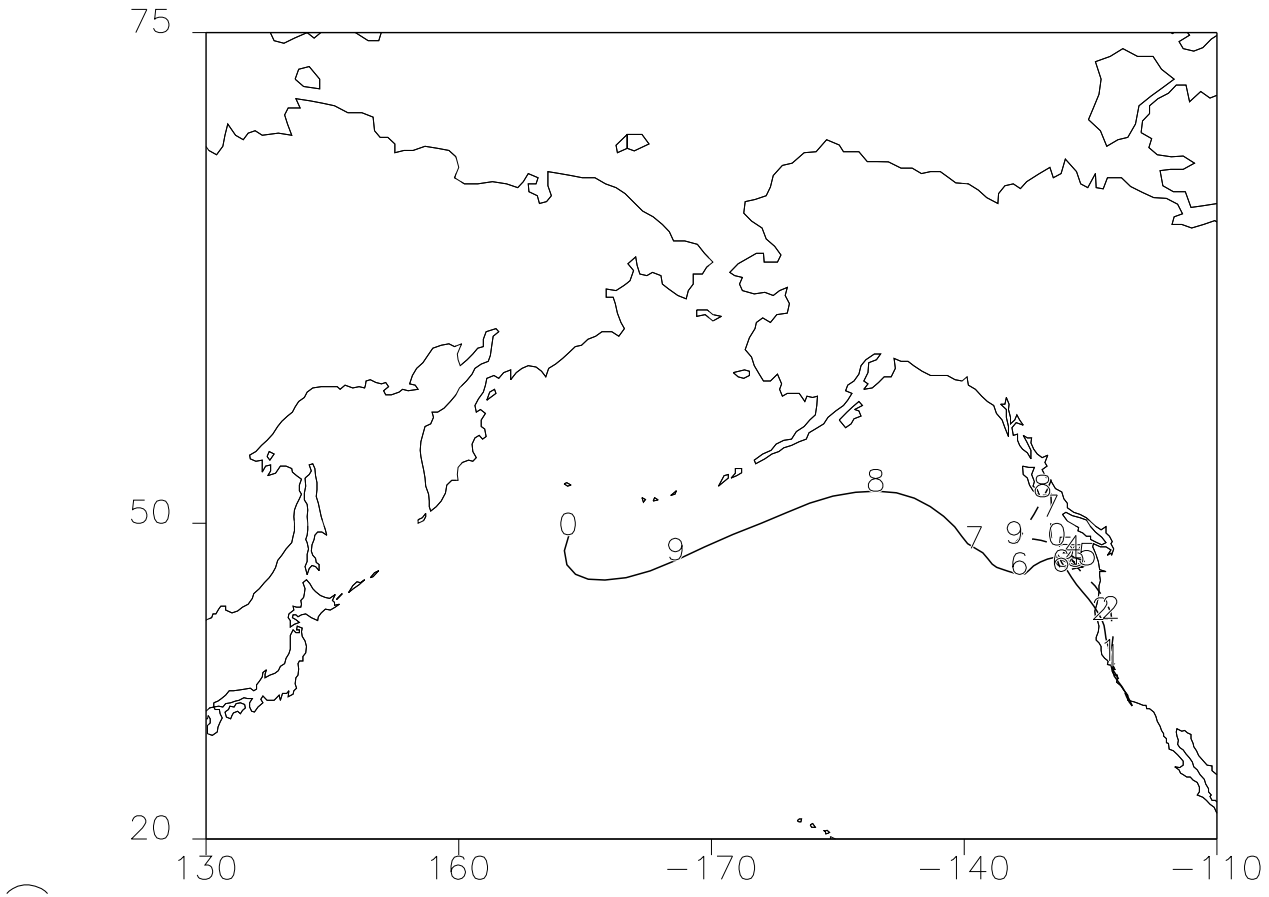
Day	km	hPa	C
0	0.3	973	11
1	0.1	1000	11
2	0.2	1000	10
3	0.3	983	8
4	0.5	952	7
5	0.7	932	6
6	0.6	949	9
7	0.2	998	14
8	0.3	987	13
9	0.9	924	9
10	1.5	849	7

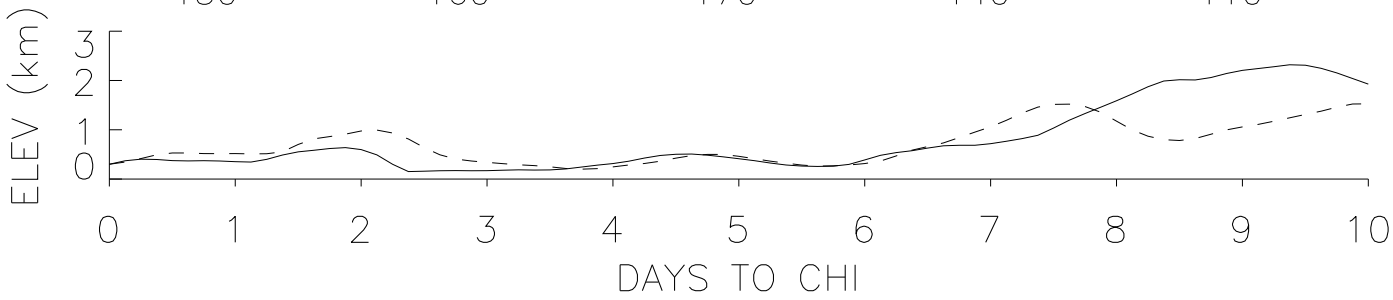
06UT

Day	km	hPa	C
0	0.3	976	10
1	0.2	988	10
2	0.2	1000	9
3	0.2	998	8
4	0.5	962	7
5	0.5	957	5
6	0.3	977	7
7	0.4	983	10
8	0.4	971	8
9	0.8	919	8
10	0.5	944	11

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/5/2003 (Day of Year 64)
NCEP/NCAR Reanalysis 1 Data Set





12UT

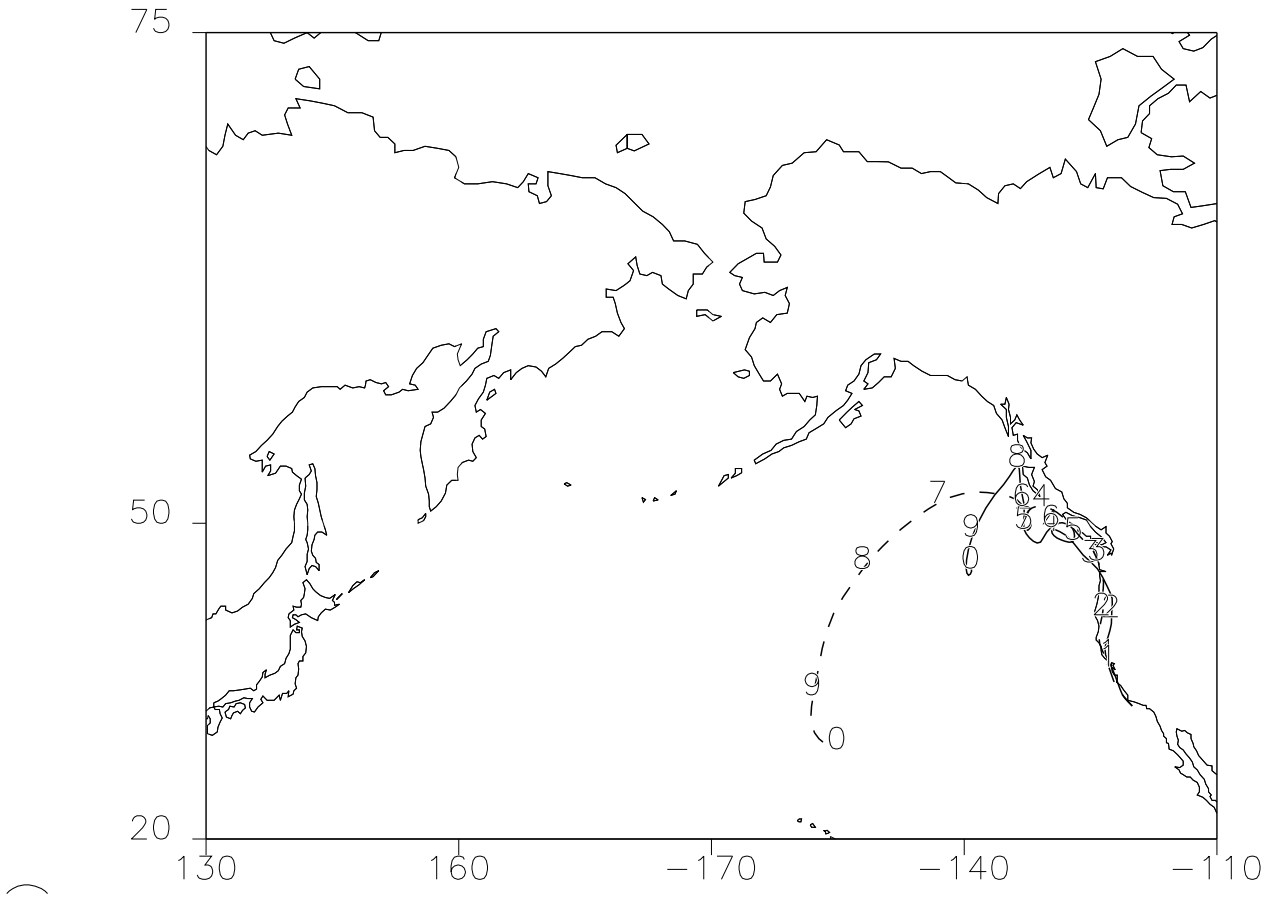
Day	km	hPa	C
0	0.3	978	10
1	0.4	968	7
2	0.6	945	5
3	0.2	1000	8
4	0.3	980	7
5	0.4	967	7
6	0.4	972	6
7	0.7	934	3
8	1.6	833	1
9	2.2	752	−7
10	1.9	764	−8

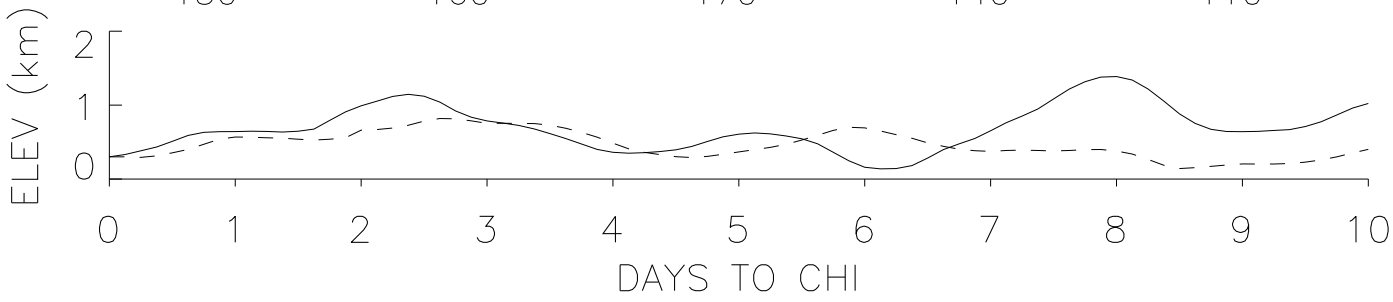
18UT

Day	km	hPa	C
0	0.3	981	12
1	0.5	951	7
2	1.0	901	2
3	0.3	979	6
4	0.2	991	7
5	0.5	960	5
6	0.3	981	7
7	1.1	889	−1
8	1.2	876	−2
9	1.1	898	2
10	1.5	843	−2

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/6/2003 (Day of Year 65)
NCEP/NCAR Reanalysis 1 Data Set





00UT

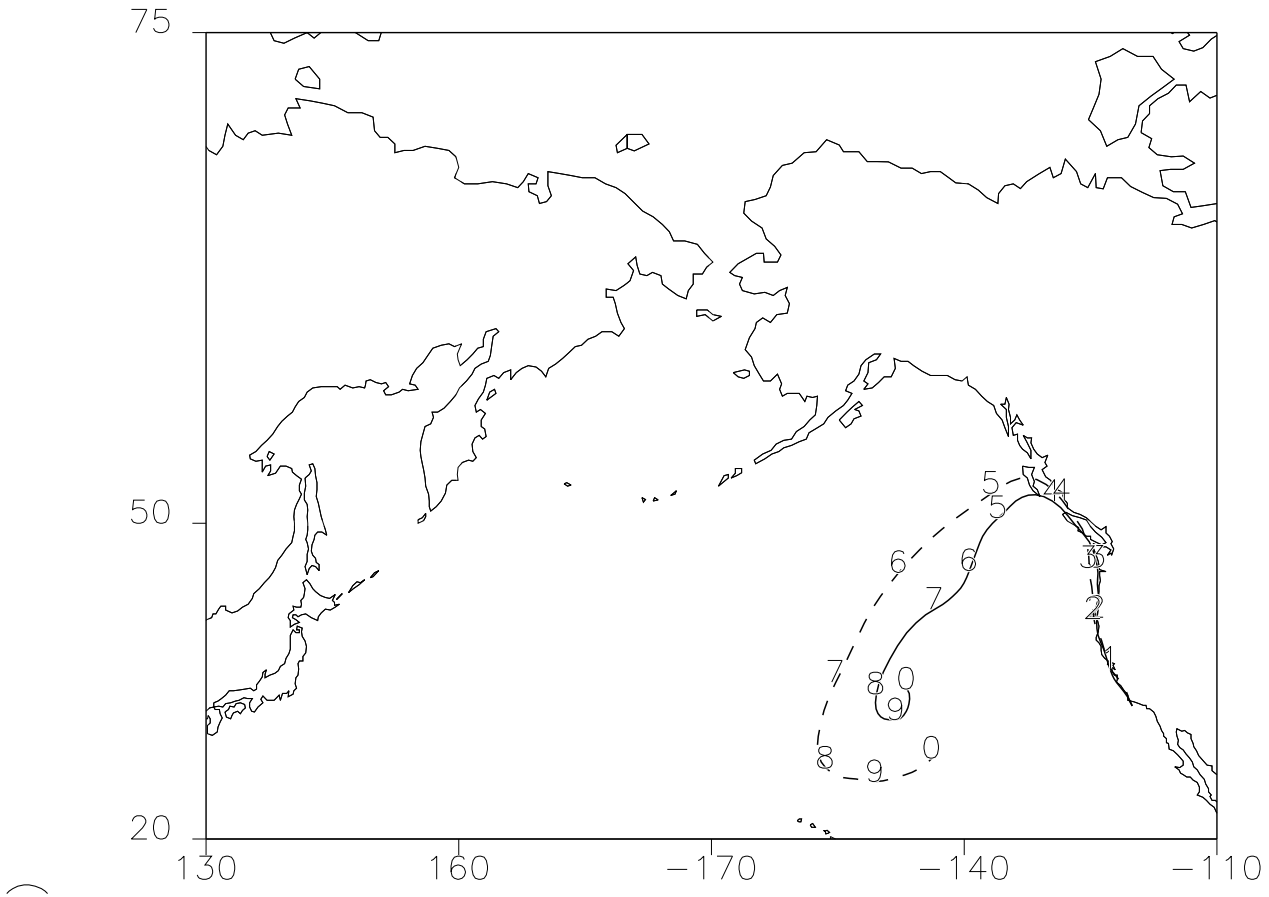
Day	km	hPa	C
0	0.3	979	14
1	0.6	936	7
2	1.0	897	3
3	0.8	923	2
4	0.4	978	6
5	0.6	943	4
6	0.2	997	7
7	0.7	939	3
8	1.4	851	−2
9	0.6	941	5
10	1.0	896	1

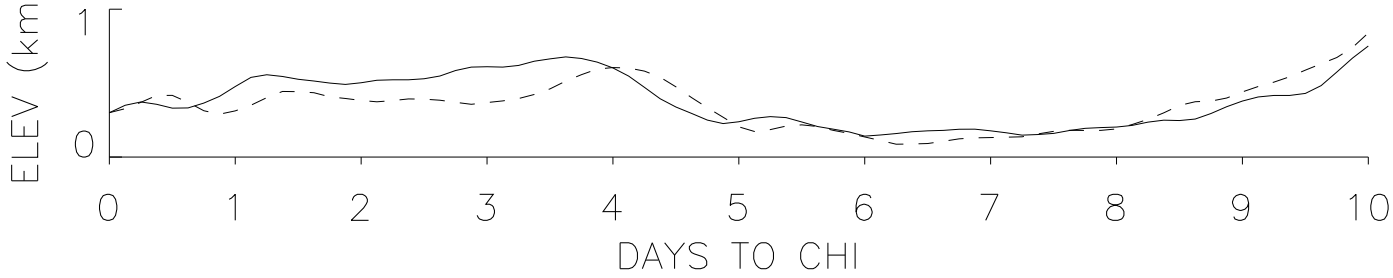
06UT

Day	km	hPa	C
0	0.3	982	13
1	0.6	947	7
2	0.7	936	4
3	0.8	925	1
4	0.5	964	4
5	0.4	973	6
6	0.7	933	2
7	0.4	965	5
8	0.4	969	7
9	0.2	1000	15
10	0.4	978	15

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/6/2003 (Day of Year 65)
NCEP/NCAR Reanalysis 1 Data Set





12UT

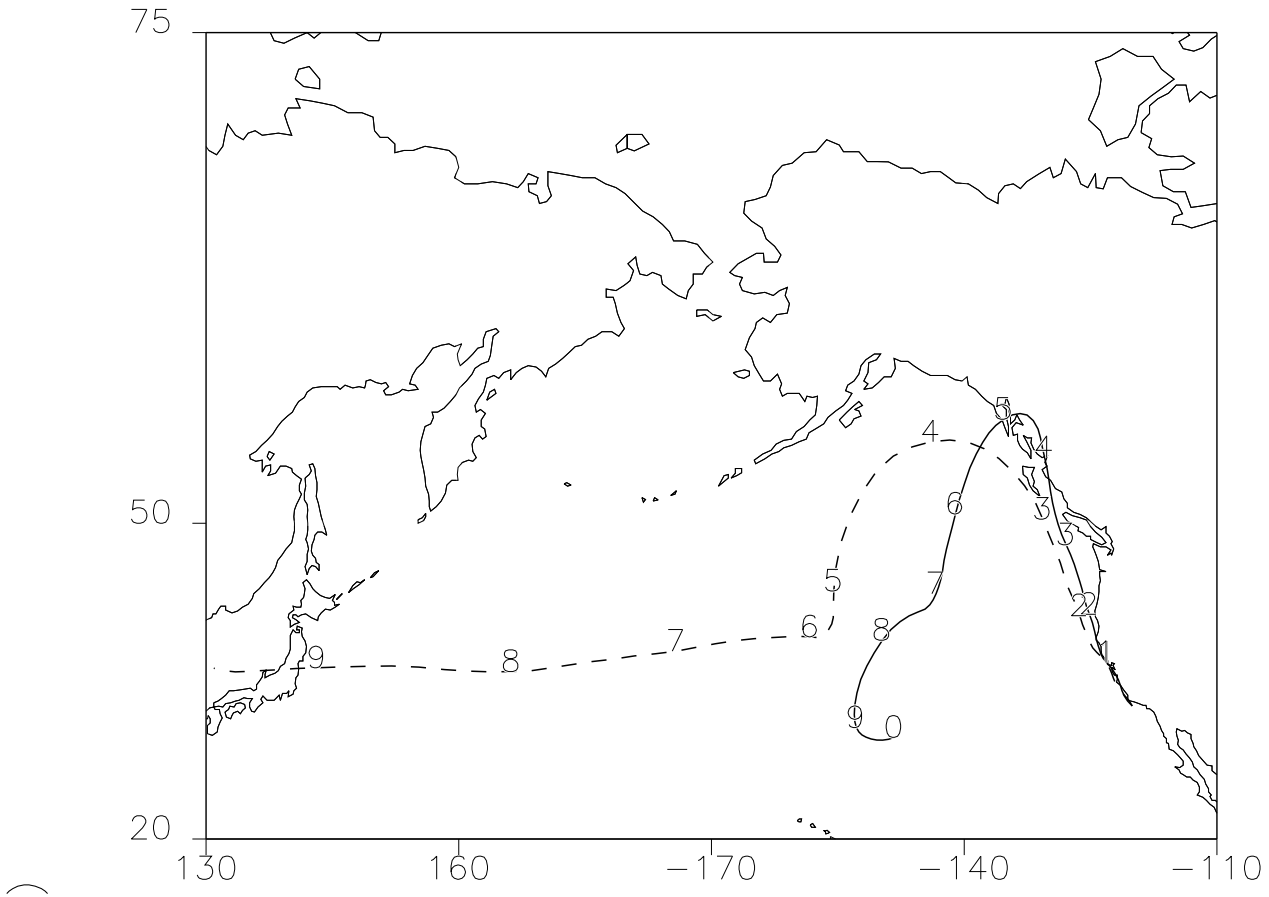
Day	km	hPa	C
0	0.3	980	12
1	0.5	958	8
2	0.5	954	3
3	0.6	943	3
4	0.6	948	2
5	0.2	989	7
6	0.1	1000	9
7	0.2	996	11
8	0.2	1000	15
9	0.4	982	14
10	0.8	939	9

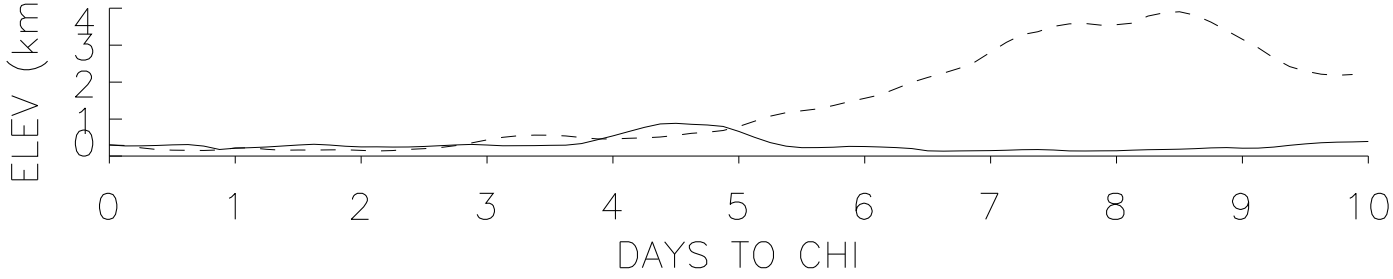
18UT

Day	km	hPa	C
0	0.3	981	14
1	0.3	980	11
2	0.4	969	6
3	0.4	974	5
4	0.6	945	2
5	0.2	992	6
6	0.1	994	8
7	0.1	1000	15
8	0.2	999	18
9	0.4	973	15
10	0.8	927	9

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/7/2003 (Day of Year 66)
NCEP/NCAR Reanalysis 1 Data Set





00UT − solid
06UT − dashed

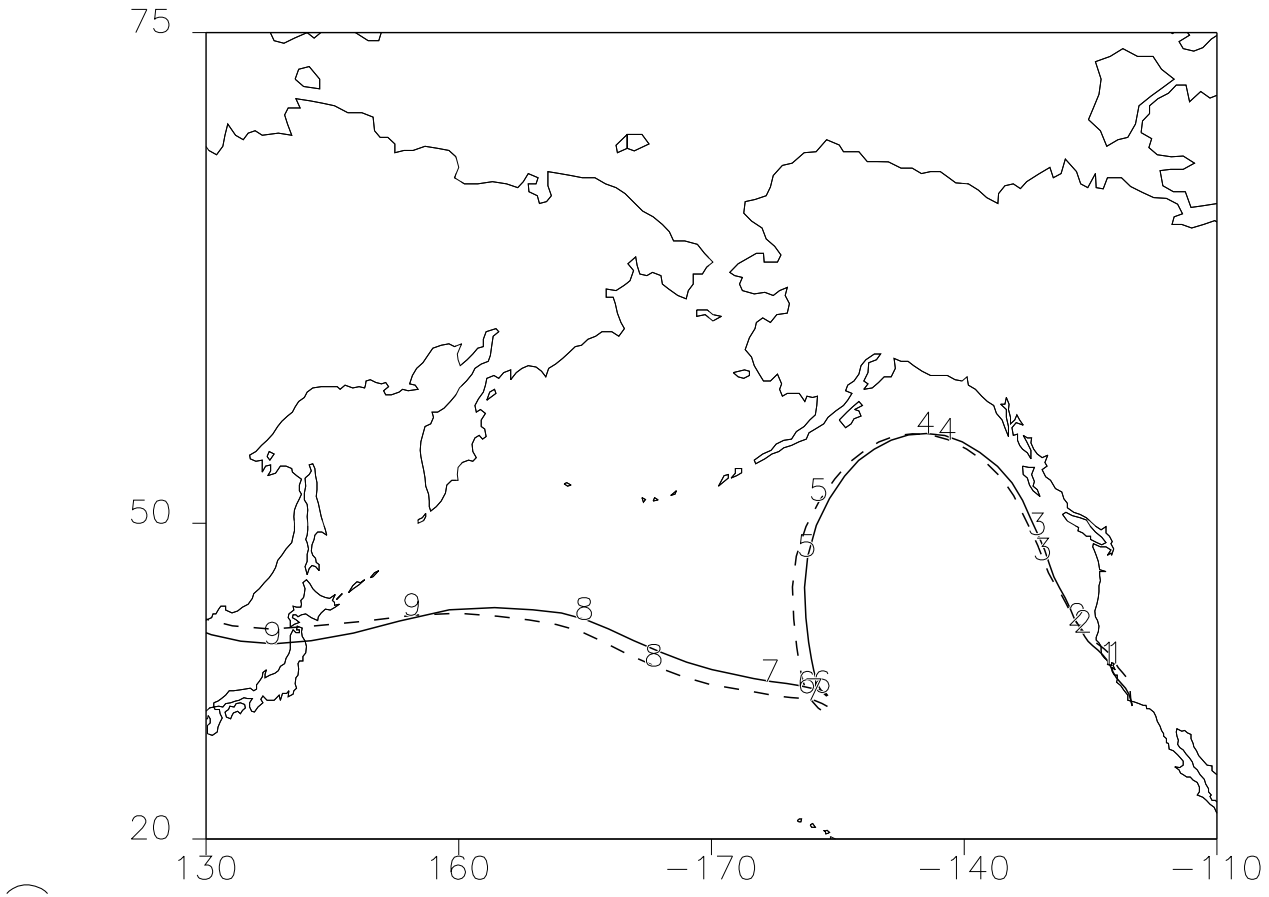
00UT

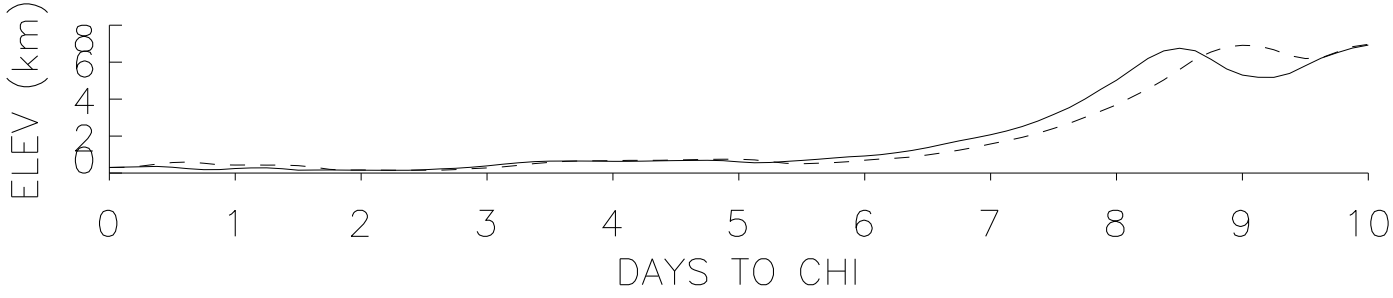
Day	km	hPa	C
0	0.3	979	15
1	0.2	991	14
2	0.2	984	9
3	0.3	983	7
4	0.5	956	2
5	0.7	933	3
6	0.3	981	8
7	0.1	1000	10
8	0.1	1000	12
9	0.2	1000	17
10	0.4	979	13

06UT

Day	km	hPa	C
0	0.3	980	13
1	0.2	993	11
2	0.2	999	9
3	0.4	966	5
4	0.5	972	4
5	0.8	934	5
6	1.6	850	3
7	2.8	712	−6
8	3.6	644	−15
9	3.2	681	−13

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/7/2003 (Day of Year 66)
NCEP/NCAR Reanalysis 1 Data Set





12UT

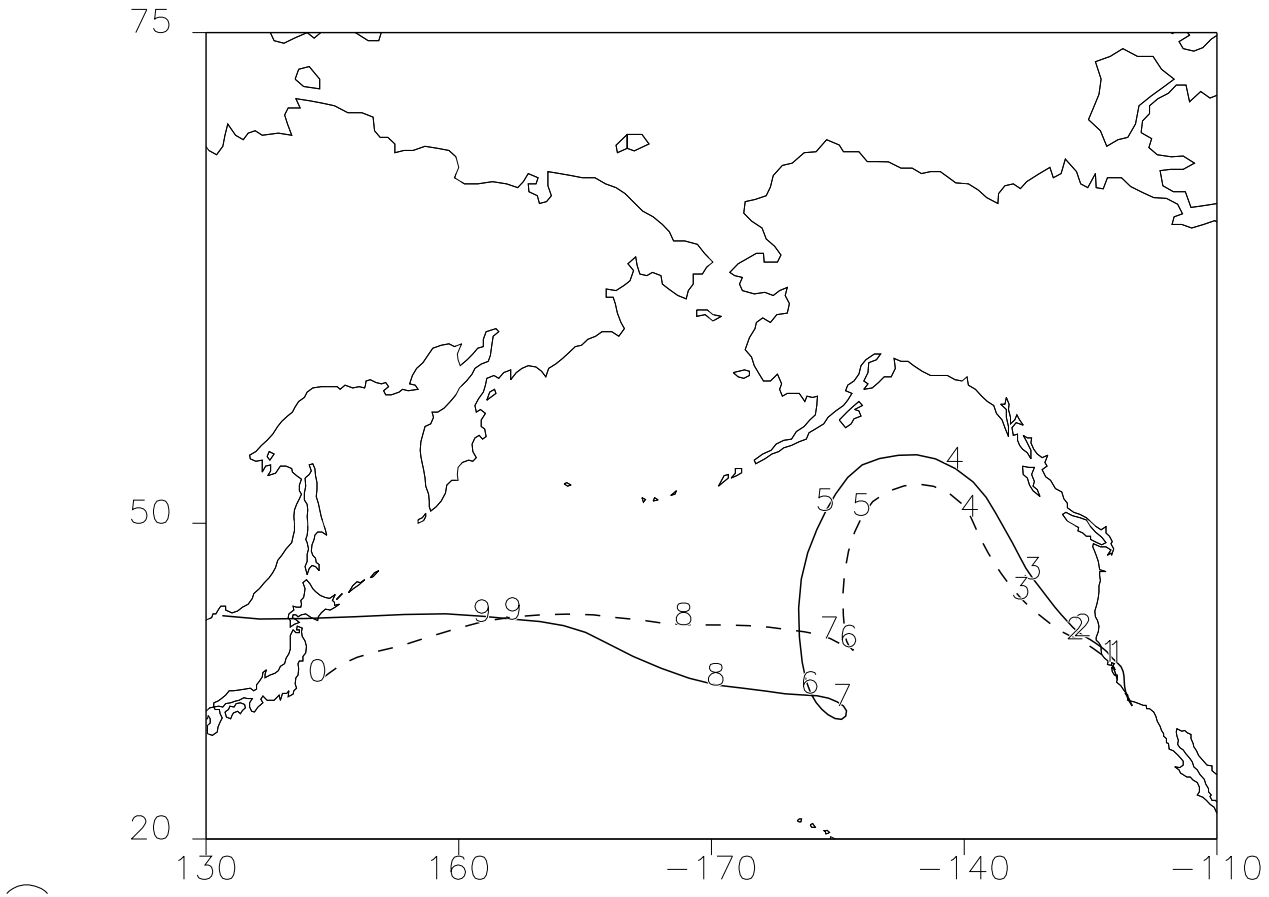
Day	km	hPa	C
0	0.3	978	12
1	0.2	989	11
2	0.2	1000	9
3	0.4	972	6
4	0.6	950	4
5	0.6	946	6
6	0.9	922	6
7	2.1	792	0
8	5.0	520	−30
9	5.3	502	−32
10	6.9	395	−47

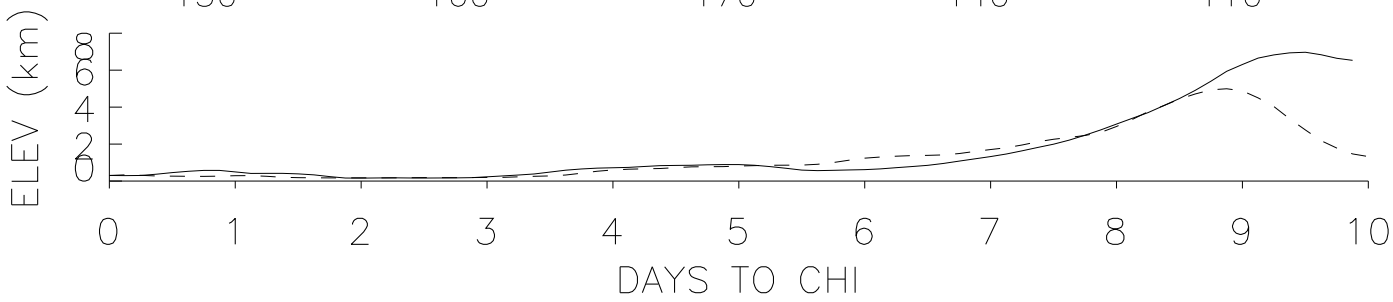
18UT

Day	km	hPa	C
0	0.3	979	15
1	0.4	968	10
2	0.2	1000	9
3	0.3	985	6
4	0.7	946	4
5	0.7	930	4
6	0.7	948	9
7	1.6	848	5
8	3.7	631	−15
9	6.9	390	−48
10	7.0	393	−46

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/8/2003 (Day of Year 67)
NCEP/NCAR Reanalysis 1 Data Set





00UT

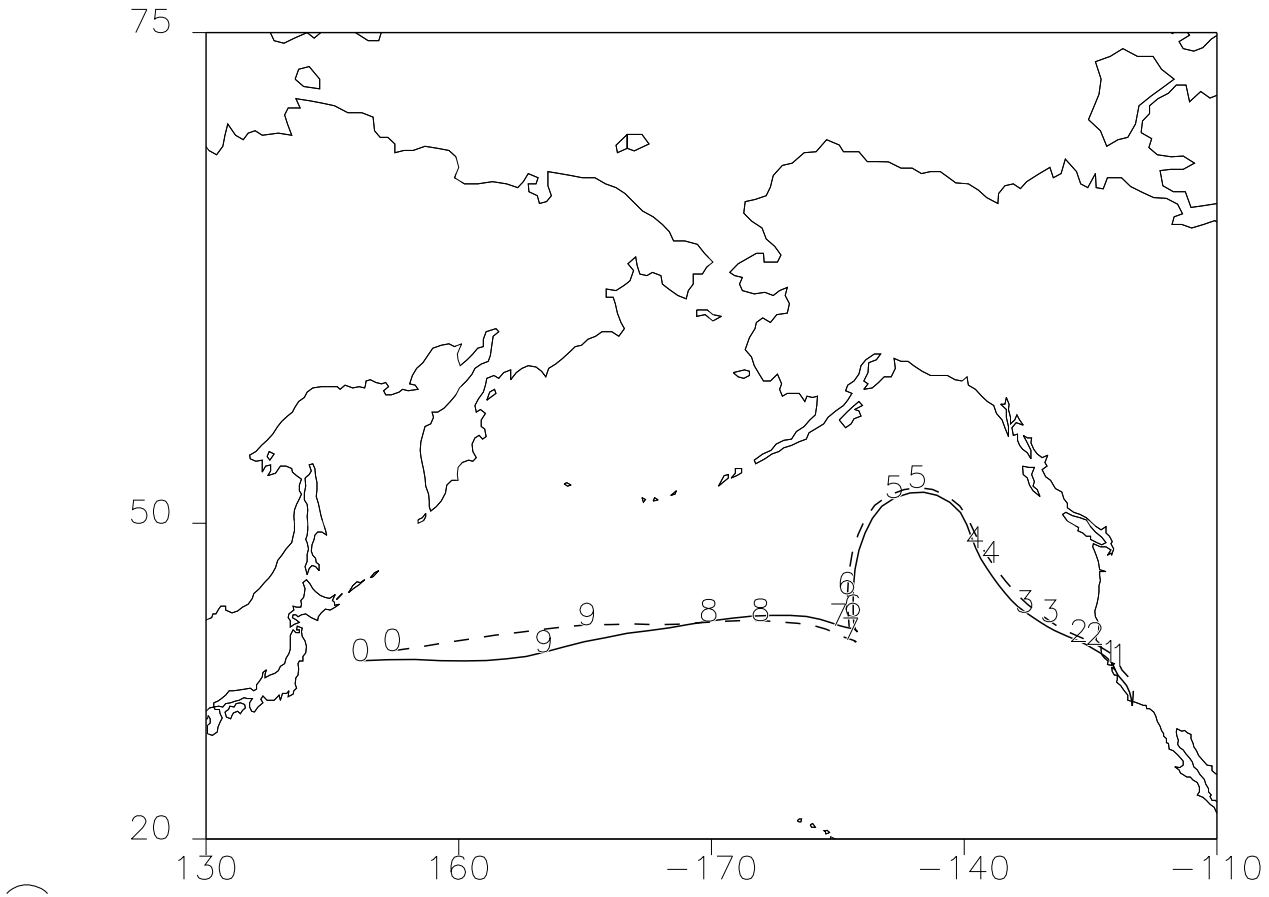
Day	km	hPa	C
0	0.3	978	15
1	0.5	958	13
2	0.2	1000	11
3	0.2	993	6
4	0.7	942	3
5	0.9	918	5
6	0.6	955	10
7	1.3	877	7
8	3.1	690	−8
9	6.3	430	−43

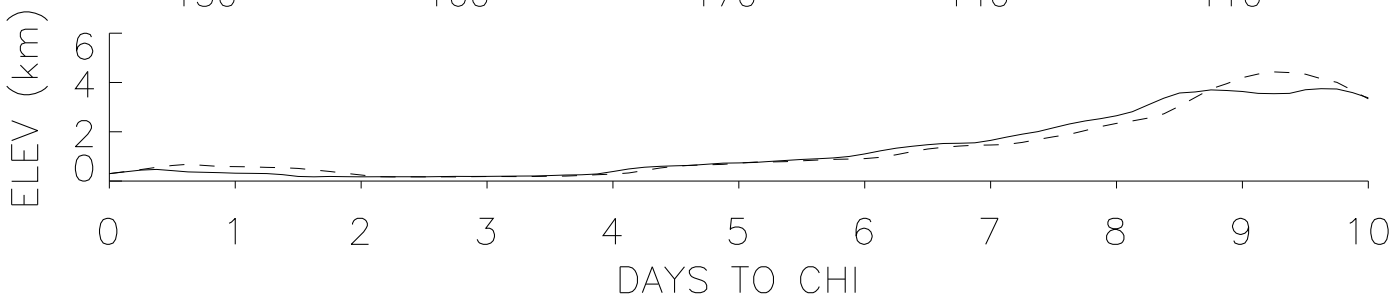
06UT

Day	km	hPa	C
0	0.3	980	13
1	0.3	984	11
2	0.2	1000	9
3	0.2	1000	7
4	0.6	957	2
5	0.8	935	6
6	1.2	889	5
7	1.7	835	2
8	3.0	696	−8
9	4.9	529	−29
10	1.3	864	−1

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/8/2003 (Day of Year 67)
NCEP/NCAR Reanalysis 1 Data Set





12UT

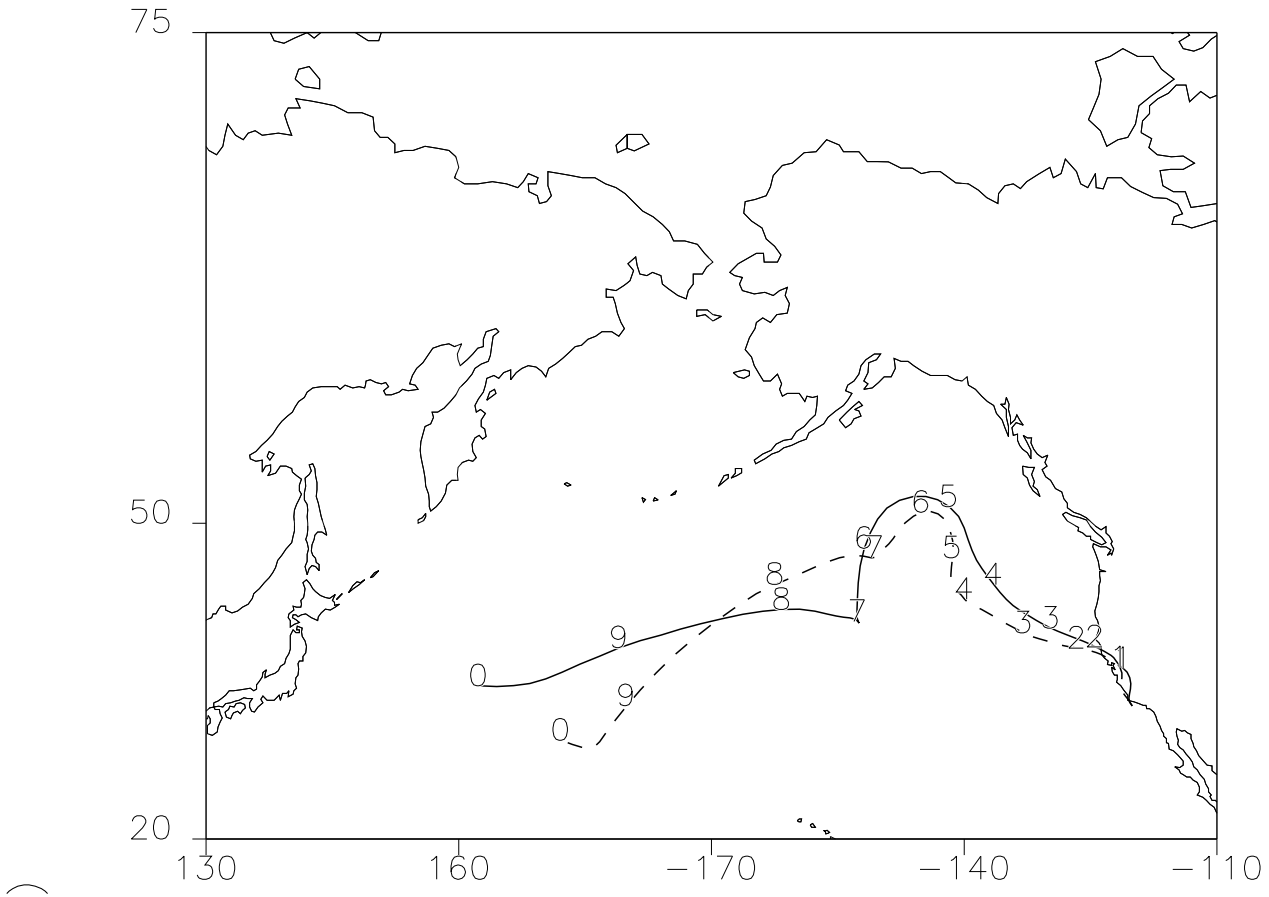
Day	km	hPa	C
0	0.3	981	11
1	0.3	978	10
2	0.2	1000	10
3	0.2	1000	7
4	0.4	982	4
5	0.7	945	4
6	1.1	903	5
7	1.7	842	4
8	2.7	727	−6
9	3.6	635	−16
10	3.4	659	−16

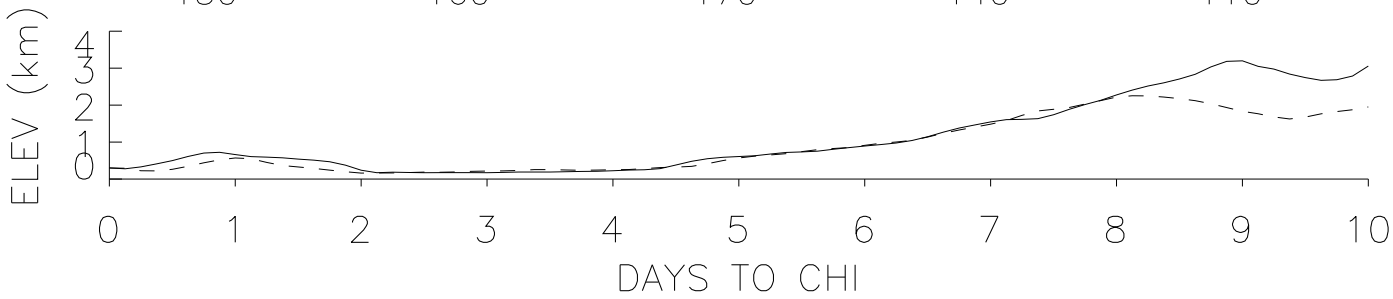
18UT

Day	km	hPa	C
0	0.3	983	16
1	0.6	949	10
2	0.2	992	9
3	0.2	1000	8
4	0.3	993	4
5	0.7	947	4
6	0.9	921	5
7	1.5	864	5
8	2.3	761	−5
9	4.2	587	−20
10	3.3	658	−17

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/9/2003 (Day of Year 68)
NCEP/NCAR Reanalysis 1 Data Set





00UT

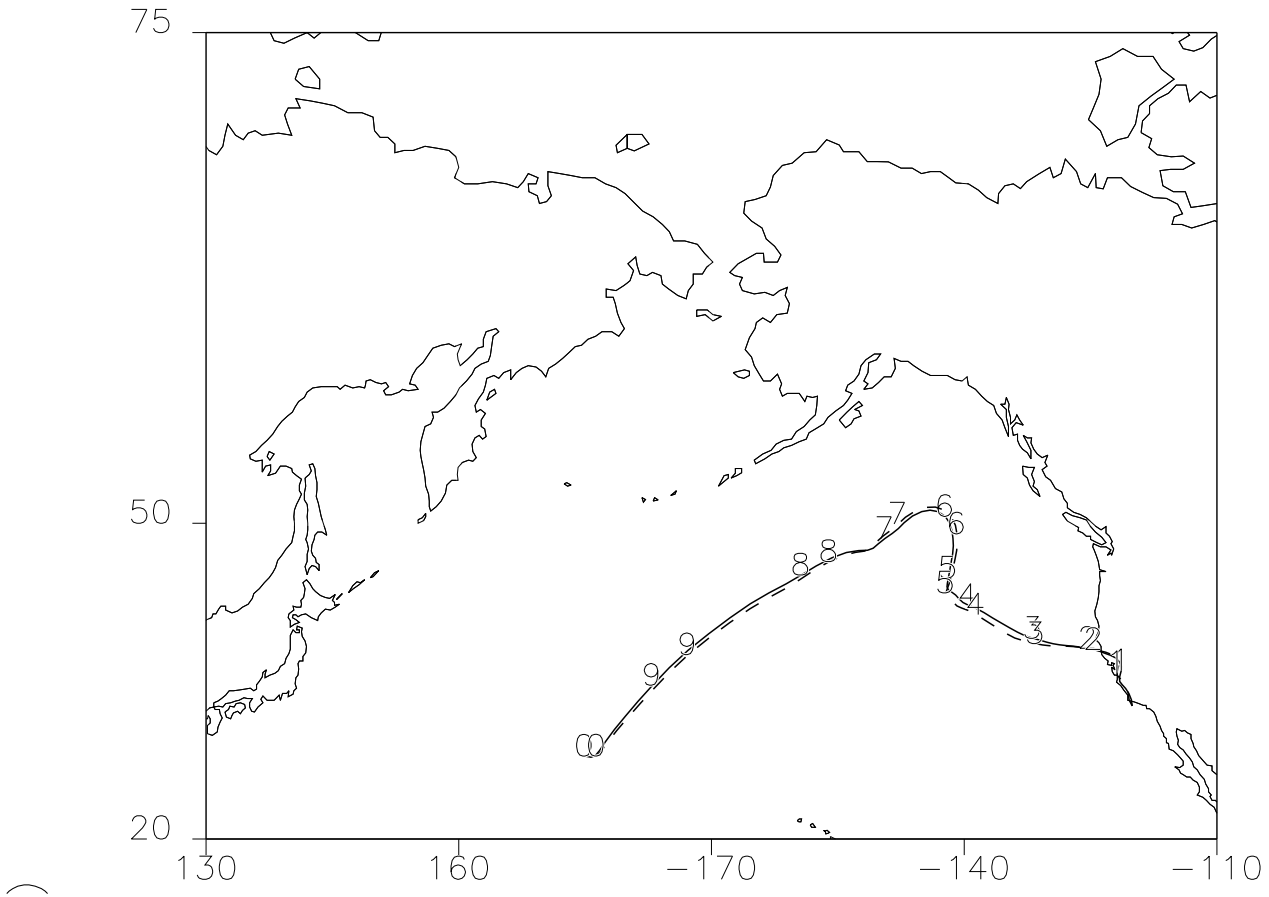
Day	km	hPa	C
0	0.3	983	16
1	0.7	937	14
2	0.2	990	11
3	0.2	1000	9
4	0.2	999	5
5	0.6	959	3
6	0.9	926	4
7	1.5	855	7
8	2.3	769	−4
9	3.2	675	−10
10	3.1	691	−11

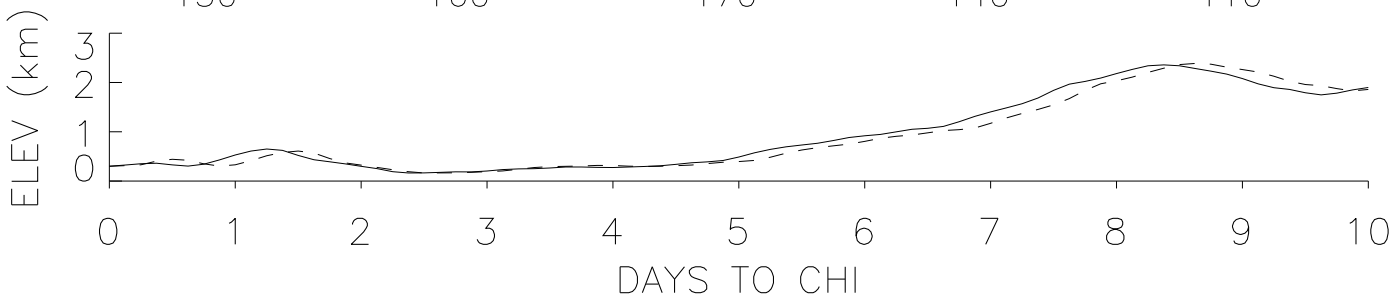
06UT

Day	km	hPa	C
0	0.3	985	14
1	0.6	951	9
2	0.2	1000	10
3	0.2	996	9
4	0.3	998	5
5	0.6	964	3
6	0.9	928	5
7	1.5	861	6
8	2.2	775	−2
9	1.8	810	3
10	2.0	800	1

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/9/2003 (Day of Year 68)
NCEP/NCAR Reanalysis 1 Data Set





12UT

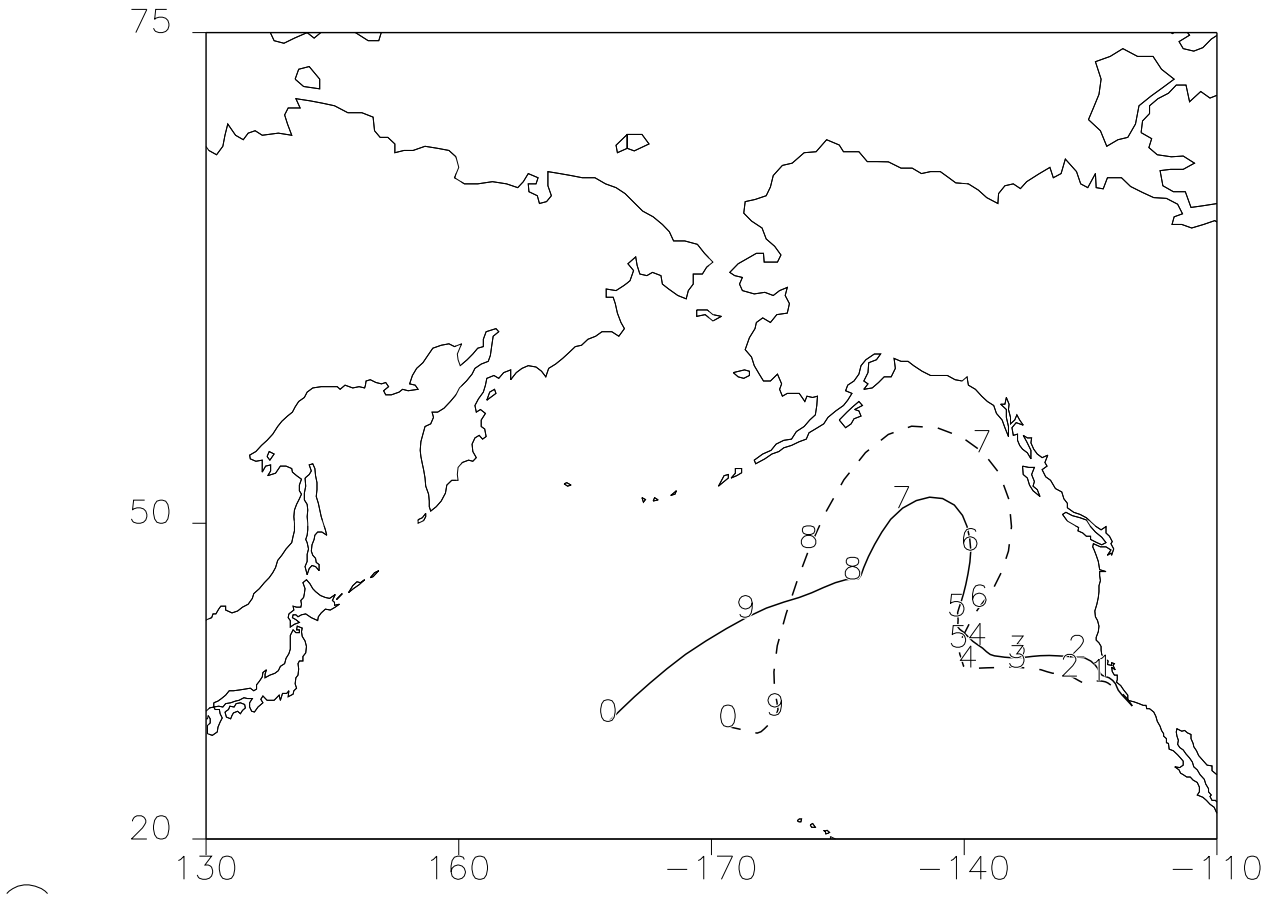
Day	km	hPa	C
0	0.3	984	13
1	0.5	956	7
2	0.3	982	9
3	0.2	997	9
4	0.3	993	6
5	0.5	973	3
6	0.9	926	5
7	1.4	870	6
8	2.2	781	0
9	2.1	787	2
10	1.9	810	3

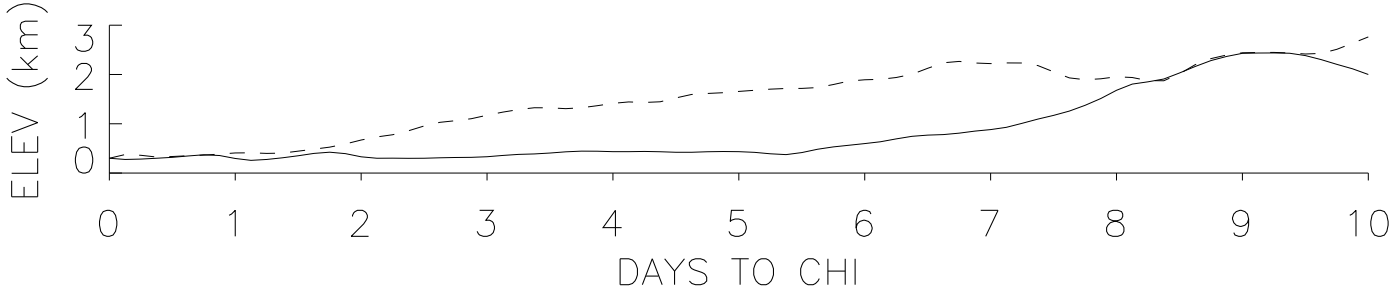
18UT

Day	km	hPa	C
0	0.3	985	16
1	0.3	982	12
2	0.3	980	9
3	0.2	1000	9
4	0.3	988	7
5	0.4	983	3
6	0.8	938	4
7	1.2	896	6
8	2.0	799	2
9	2.3	767	0
10	1.9	813	5

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/10/2003 (Day of Year 69)
NCEP/NCAR Reanalysis 1 Data Set





00UT

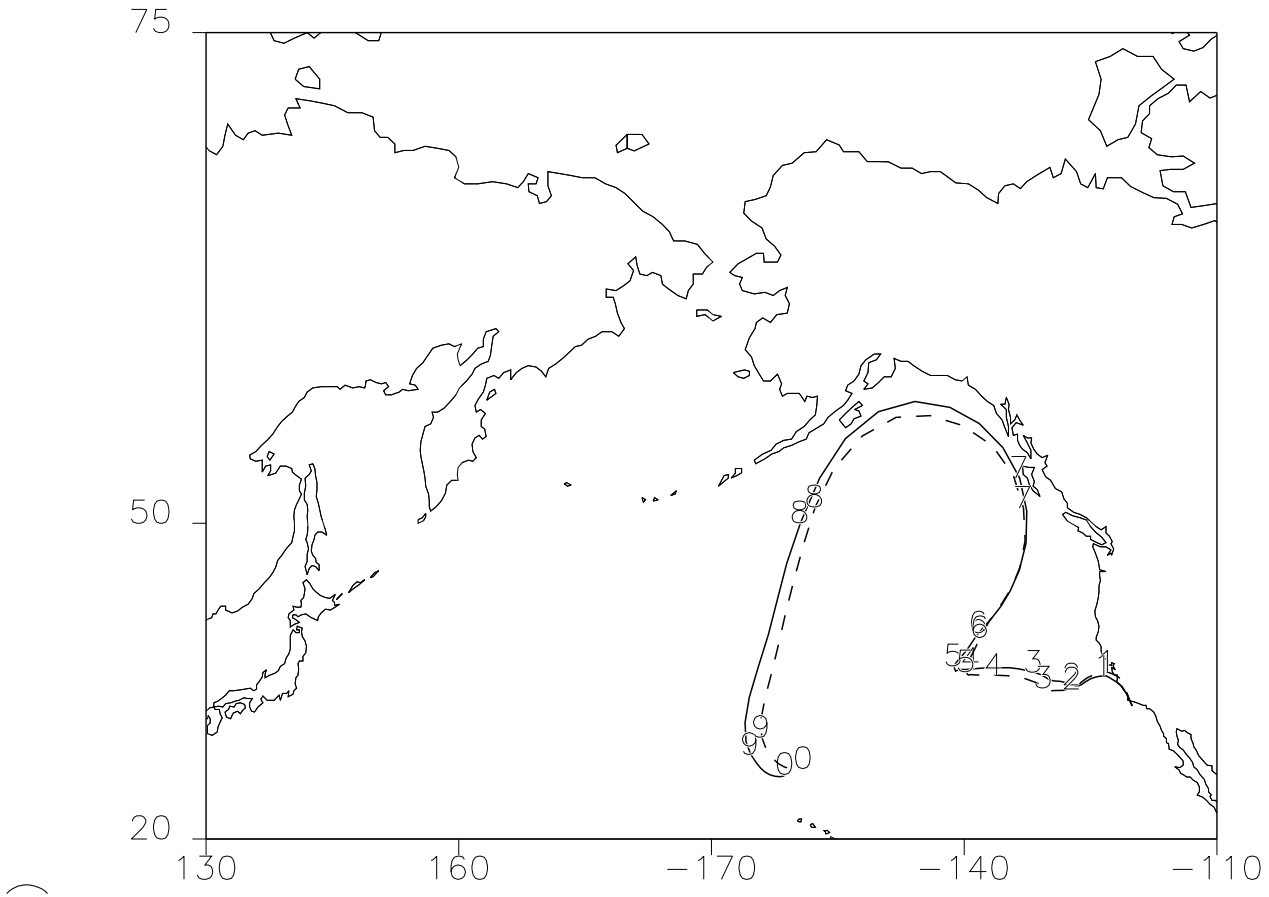
Day	km	hPa	C
0	0.3	983	17
1	0.3	985	13
2	0.3	978	10
3	0.3	982	9
4	0.4	973	8
5	0.4	977	4
6	0.6	960	5
7	0.9	929	5
8	1.7	840	6
9	2.4	754	−3
10	2.0	796	3

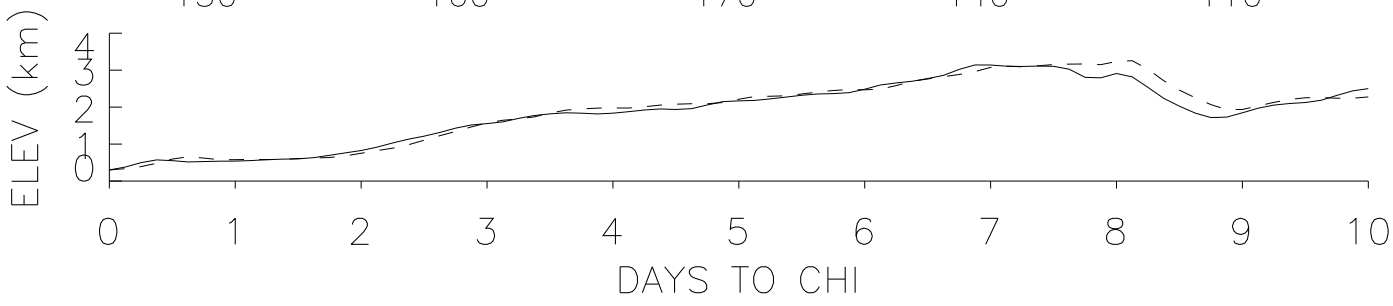
06UT

Day	km	hPa	C
0	0.3	984	14
1	0.4	974	10
2	0.7	941	7
3	1.2	887	6
4	1.4	865	5
5	1.7	841	5
6	1.9	816	4
7	2.2	782	3
8	2.0	804	7
9	2.4	767	5
10	2.8	730	2

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/10/2003 (Day of Year 69)
NCEP/NCAR Reanalysis 1 Data Set





12UT

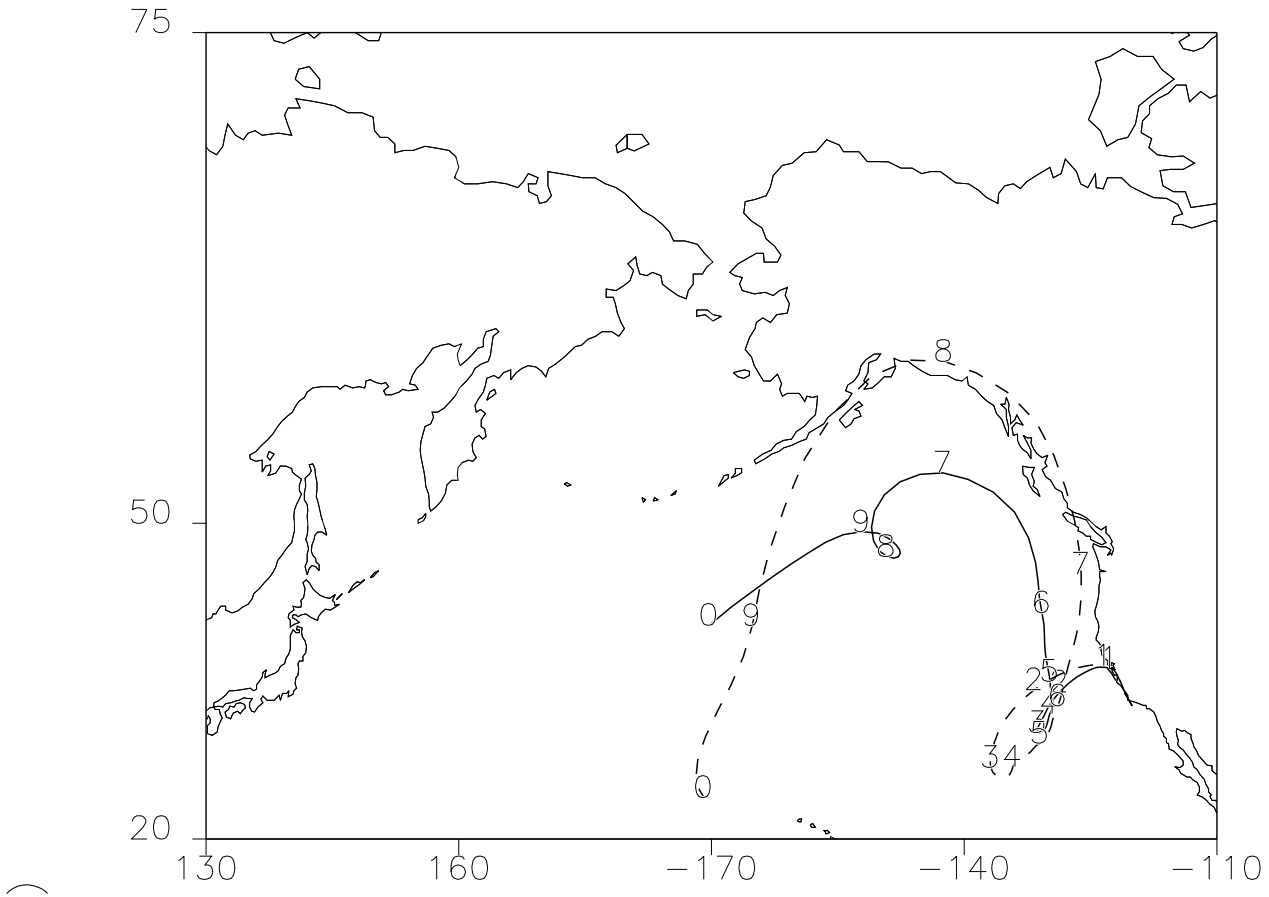
Day	km	hPa	C
0	0.3	982	13
1	0.5	957	11
2	0.8	923	7
3	1.6	845	6
4	1.8	820	6
5	2.2	789	3
6	2.5	758	2
7	3.1	696	−4
8	2.9	708	−1
9	1.8	821	11
10	2.5	758	7

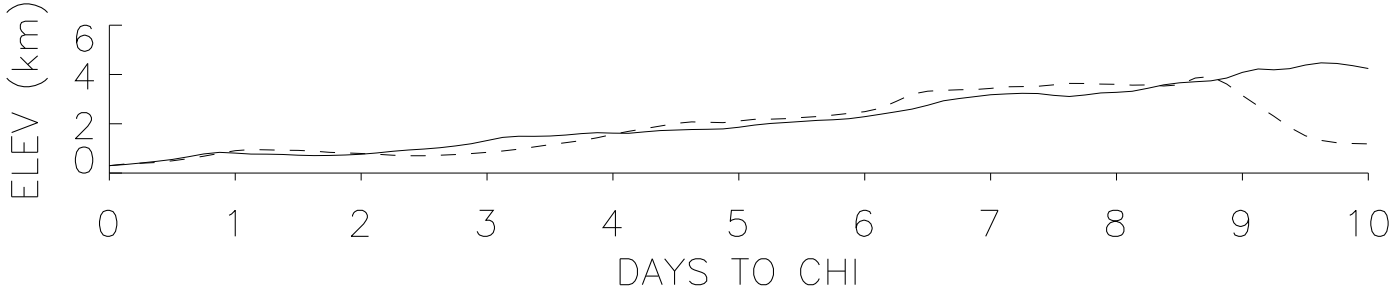
18UT

Day	km	hPa	C
0	0.3	983	17
1	0.6	955	13
2	0.8	934	7
3	1.6	845	5
4	2.0	806	4
5	2.2	786	4
6	2.5	759	2
7	3.1	702	−2
8	3.2	684	−3
9	1.9	813	10
10	2.3	781	8

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/11/2003 (Day of Year 70)
NCEP/NCAR Reanalysis 1 Data Set





00UT

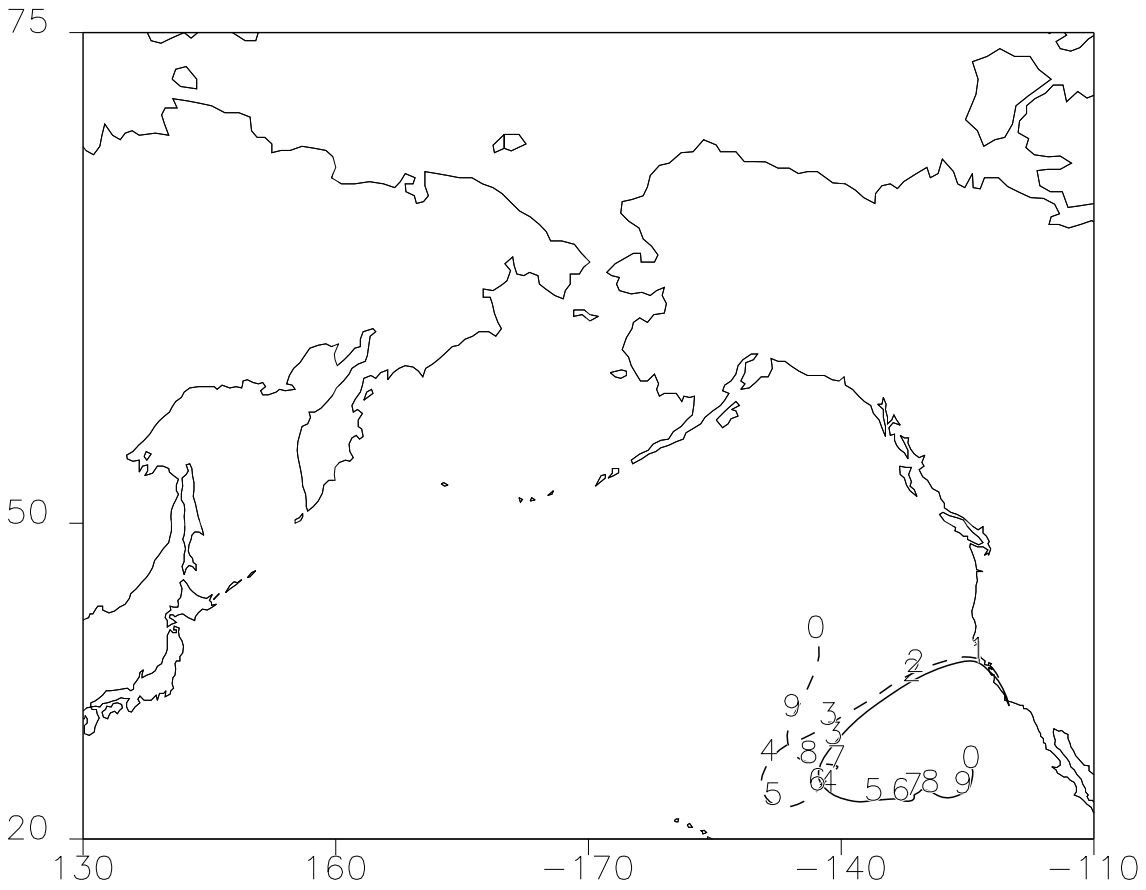
Day	km	hPa	C
0	0.3	980	19
1	0.8	927	15
2	0.8	931	8
3	1.3	870	8
4	1.6	840	6
5	1.9	816	5
6	2.3	770	2
7	3.2	697	0
8	3.3	693	−1
9	4.1	619	−10
10	4.2	595	−14

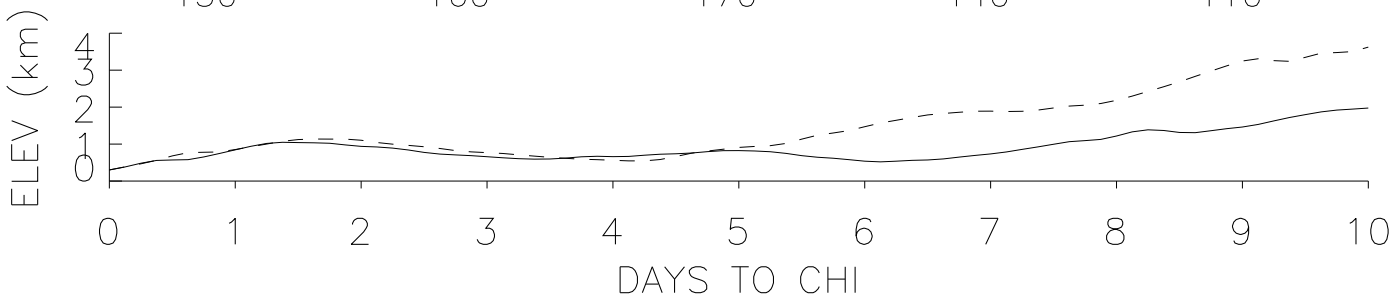
06UT

Day	km	hPa	C
0	0.3	981	16
1	0.9	917	11
2	0.8	926	11
3	0.8	922	11
4	1.6	846	8
5	2.1	792	5
6	2.5	752	2
7	3.4	662	−6
8	3.6	651	−7
9	3.1	685	−4
10	1.2	887	15

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/11/2003 (Day of Year 70)
NCEP/NCAR Reanalysis 1 Data Set





12UT

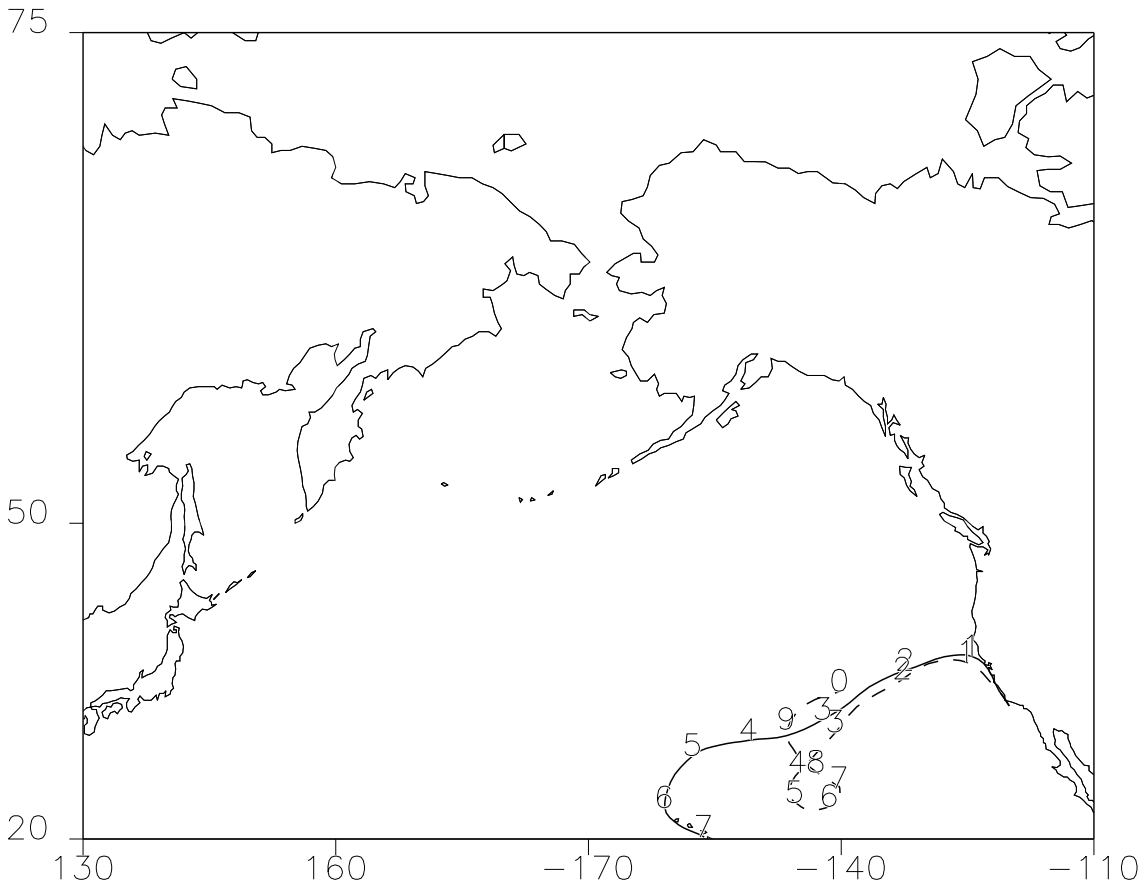
Day	km	hPa	C
0	0.3	979	14
1	0.8	922	10
2	0.9	910	11
3	0.7	938	15
4	0.7	940	15
5	0.8	924	14
6	0.5	954	15
7	0.7	933	11
8	1.2	880	8
9	1.5	855	7
10	2.0	802	3

18UT

Day	km	hPa	C
0	0.3	980	17
1	0.9	923	11
2	1.1	894	10
3	0.8	925	12
4	0.6	950	15
5	0.9	914	12
6	1.5	856	10
7	1.9	810	4
8	2.2	780	2
9	3.2	686	−7
10	3.6	654	−10

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/12/2003 (Day of Year 71)
NCEP/NCAR Reanalysis 1 Data Set

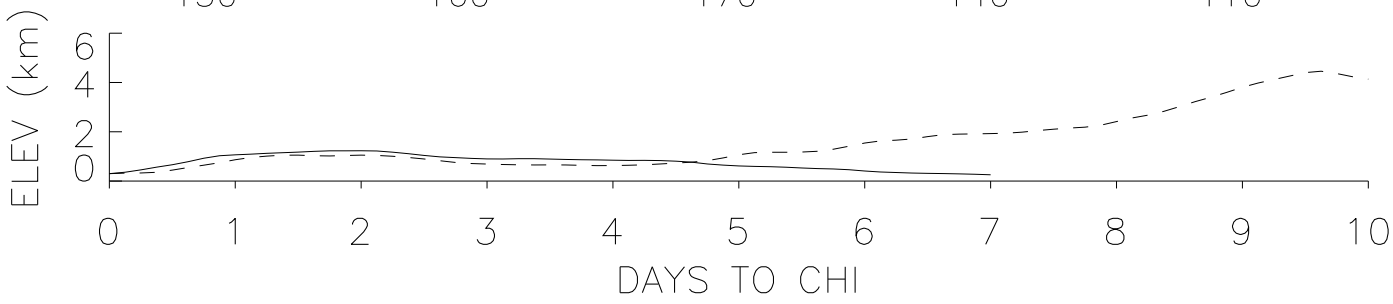


00UT

Day	km	hPa	C
0	0.3	978	18
1	1.1	899	11
2	1.2	879	8
3	0.9	911	12
4	0.8	915	13
5	0.6	941	16
6	0.4	967	20
7	0.3	984	21

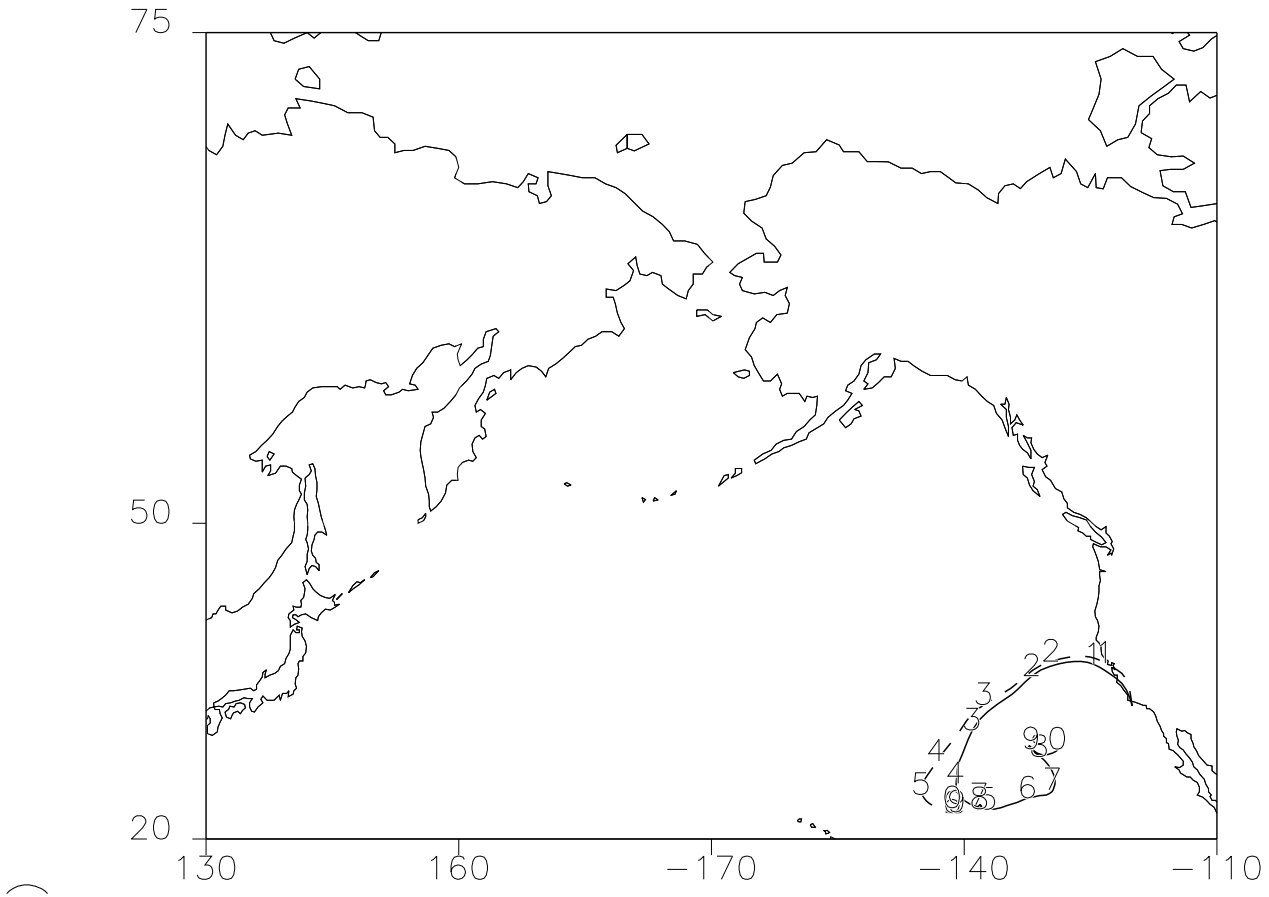
06UT

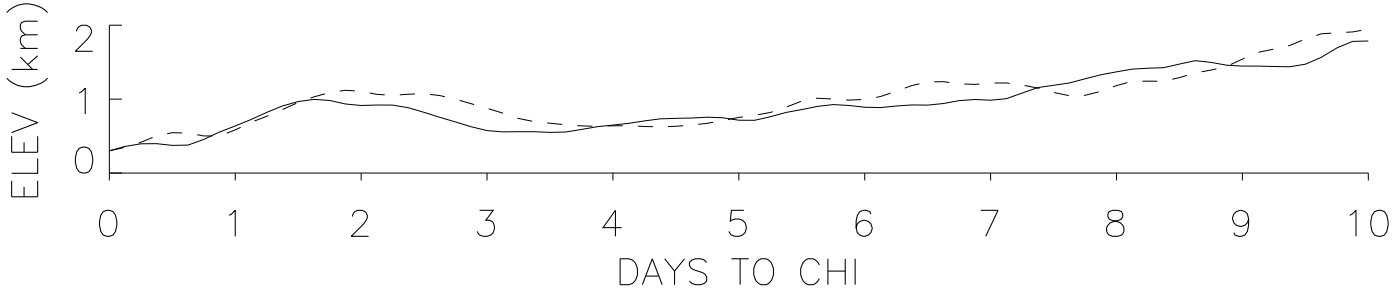
Day	km	hPa	C
0	0.3	979	15
1	0.9	921	12
2	1.1	901	10
3	0.7	936	15
4	0.6	942	15
5	1.1	897	12
6	1.5	848	10
7	1.9	808	6
8	2.4	759	1
9	3.8	636	−11
10	4.1	612	−13



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/12/2003 (Day of Year 71)
NCEP/NCAR Reanalysis 1 Data Set





12UT

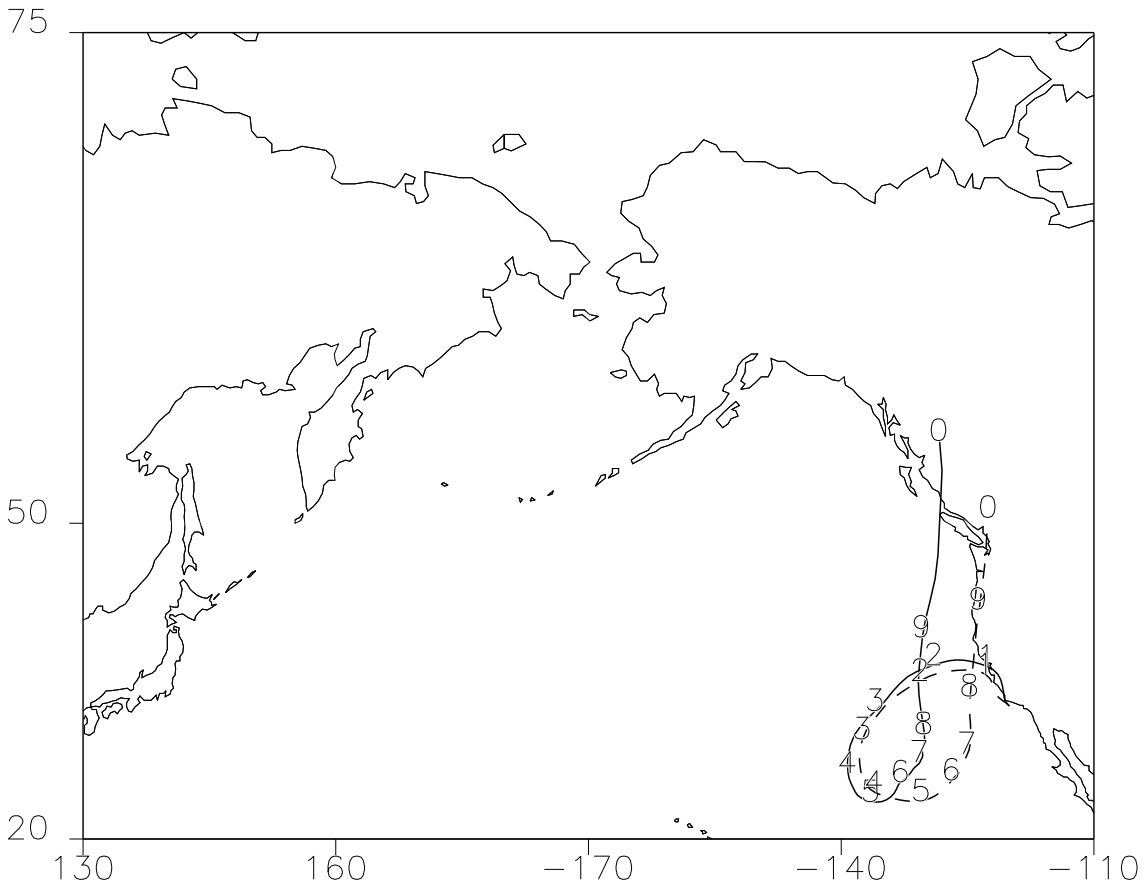
Day	km	hPa	C
0	0.3	979	13
1	0.6	944	11
2	0.9	915	11
3	0.6	950	16
4	0.6	941	15
5	0.7	934	14
6	0.9	916	12
7	1.0	905	11
8	1.4	863	6
9	1.4	858	6
10	1.8	824	4

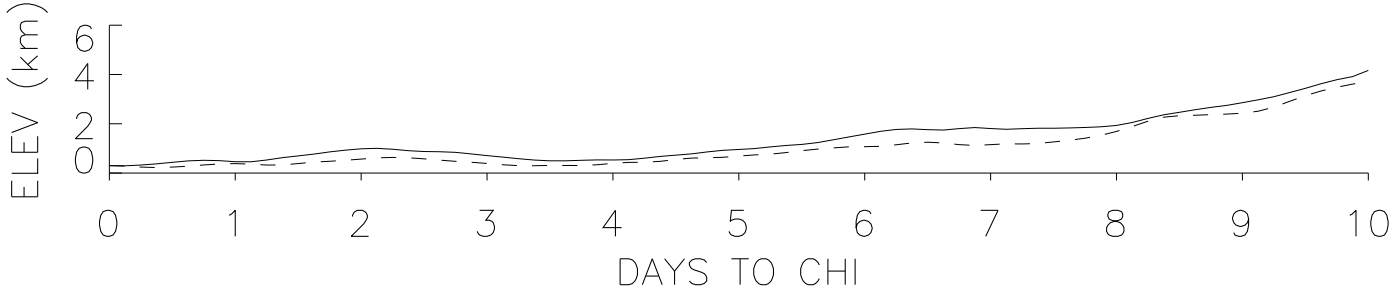
18UT

Day	km	hPa	C
0	0.3	980	17
1	0.6	950	13
2	1.1	895	8
3	0.9	919	13
4	0.6	942	16
5	0.8	931	13
6	1.0	905	14
7	1.2	882	11
8	1.2	884	10
9	1.5	847	8
10	1.9	807	7

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/13/2003 (Day of Year 72)
NCEP/NCAR Reanalysis 1 Data Set





00UT

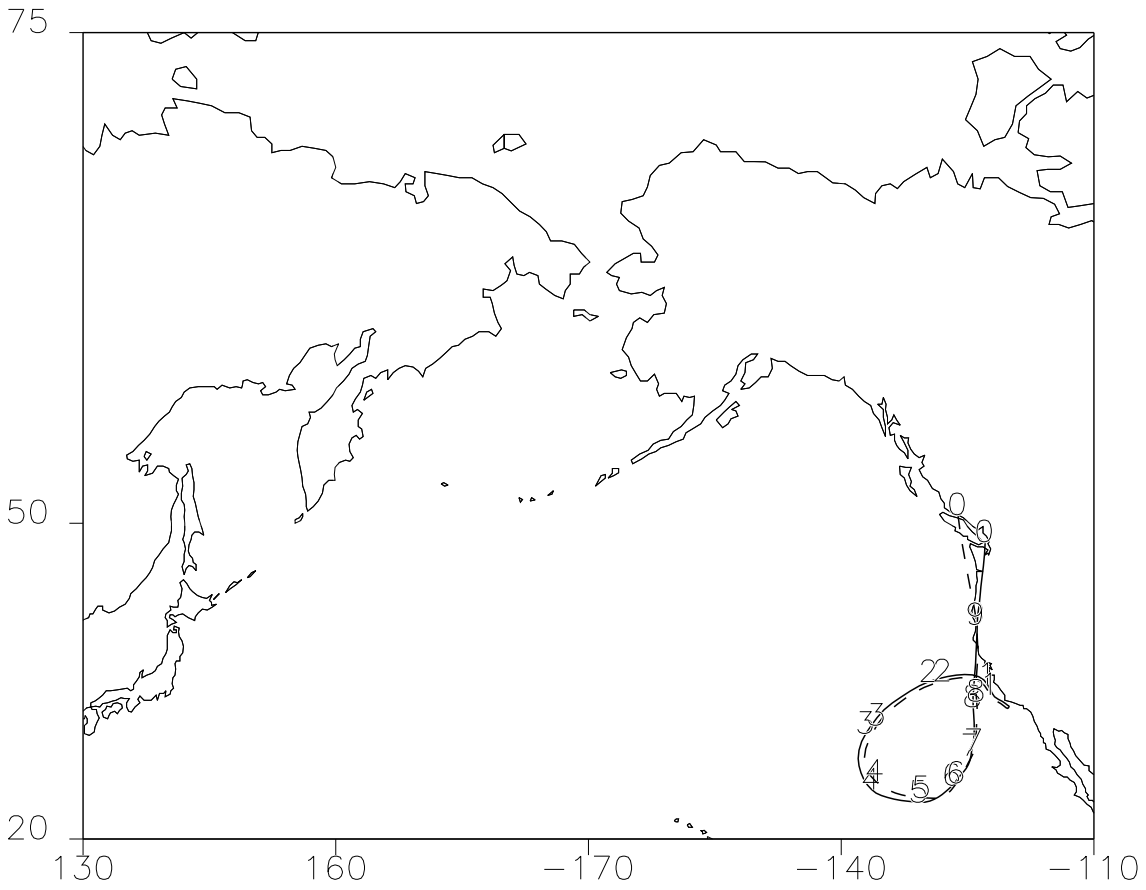
Day	km	hPa	C
0	0.3	978	17
1	0.5	962	16
2	1.0	909	11
3	0.7	937	13
4	0.5	955	17
5	1.0	908	12
6	1.6	843	9
7	1.8	820	6
8	1.9	806	3
9	2.9	715	−5
10	4.2	599	−20

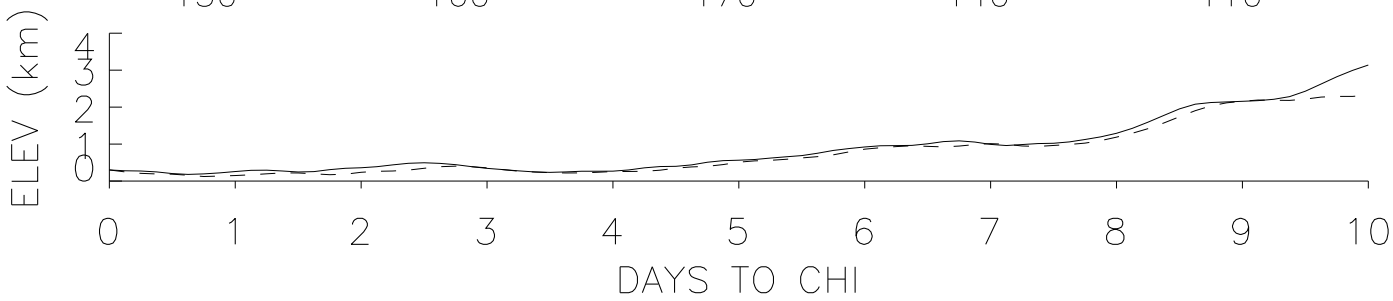
06UT

Day	km	hPa	C
0	0.3	981	15
1	0.4	972	14
2	0.6	954	13
3	0.4	975	17
4	0.4	974	15
5	0.7	938	11
6	1.1	895	9
7	1.2	889	7
8	1.7	826	3
9	2.4	750	−5
10	3.7	632	−18

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/13/2003 (Day of Year 72)
NCEP/NCAR Reanalysis 1 Data Set





12UT

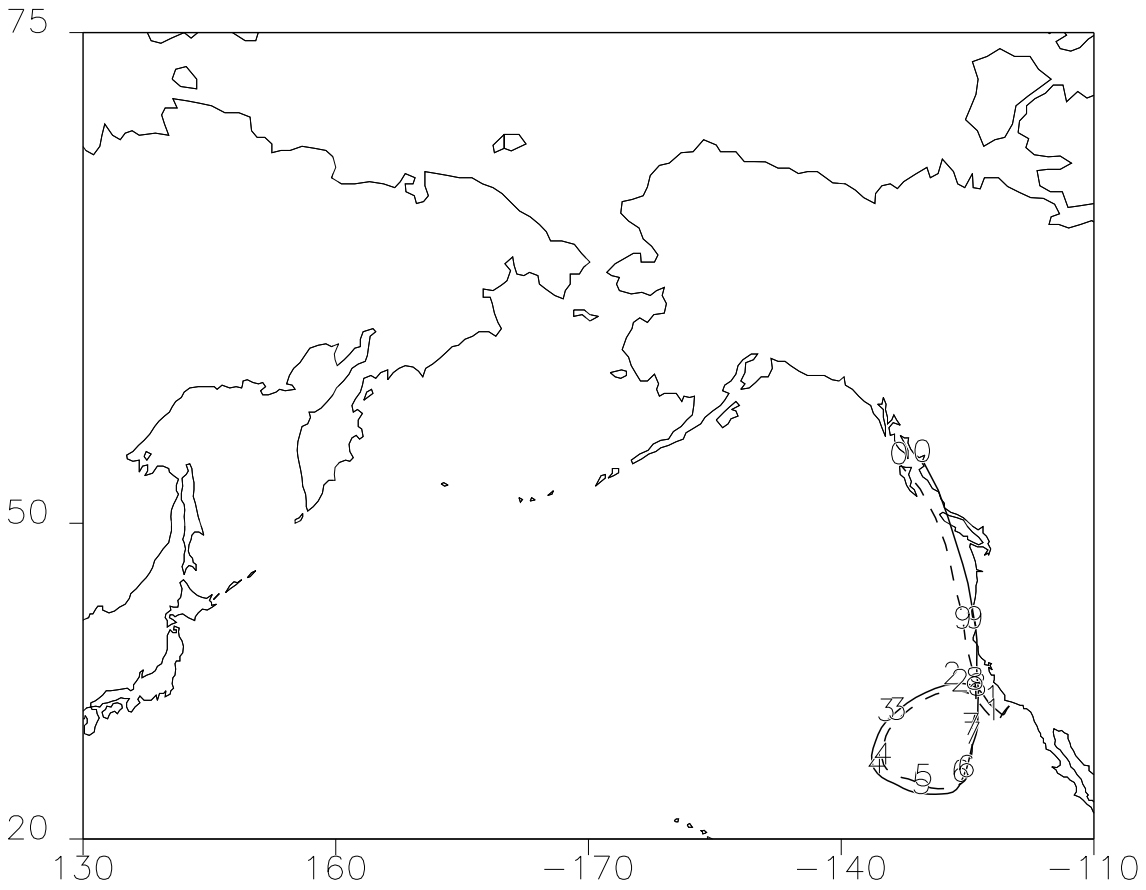
Day	km	hPa	C
0	0.3	980	14
1	0.3	986	13
2	0.4	977	13
3	0.3	979	16
4	0.3	988	16
5	0.6	951	13
6	0.9	911	8
7	1.0	905	7
8	1.3	869	5
9	2.2	775	−4
10	3.1	684	−14

18UT

Day	km	hPa	C
0	0.3	981	15
1	0.1	1000	14
2	0.2	993	13
3	0.4	981	15
4	0.3	992	16
5	0.5	960	14
6	0.9	920	9
7	1.0	905	6
8	1.2	883	7
9	2.2	776	−2
10	2.3	763	−5

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/14/2003 (Day of Year 73)
NCEP/NCAR Reanalysis 1 Data Set

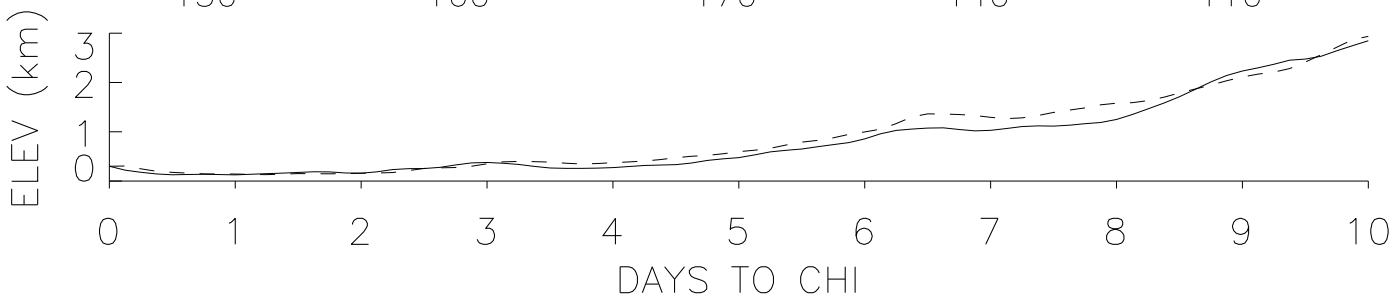


00UT

Day	km	hPa	C
0	0.3	979	14
1	0.1	1000	13
2	0.2	1000	13
3	0.4	979	14
4	0.3	990	16
5	0.5	962	14
6	0.9	918	9
7	1.0	901	7
8	1.3	875	8
9	2.2	770	0
10	2.8	714	−4

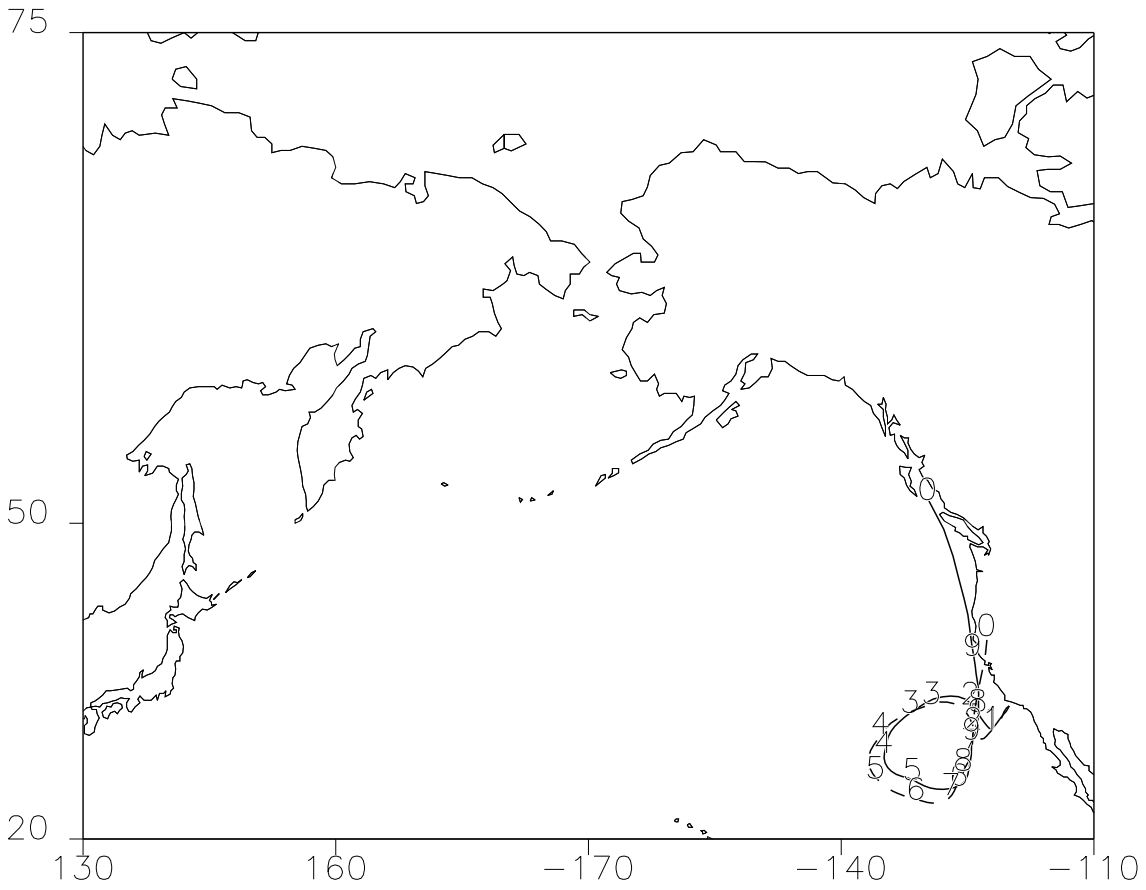
06UT

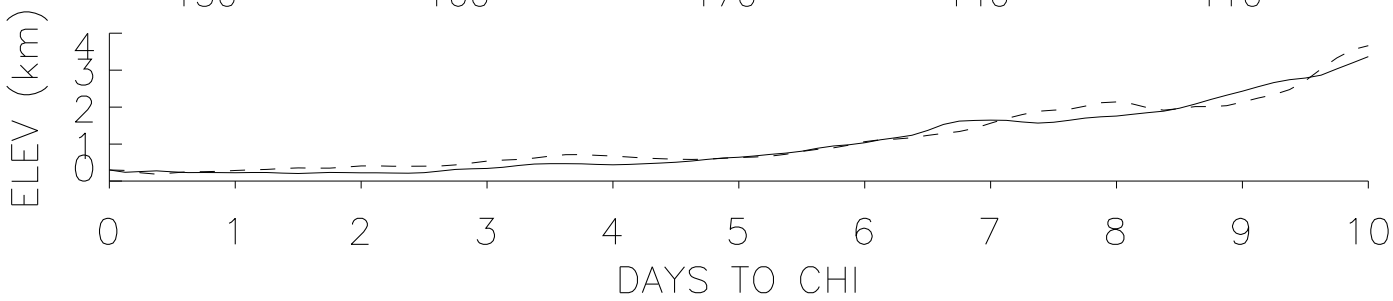
Day	km	hPa	C
0	0.3	981	13
1	0.1	1000	14
2	0.2	1000	13
3	0.4	982	14
4	0.4	980	15
5	0.6	952	12
6	1.0	904	10
7	1.3	872	8
8	1.6	843	8
9	2.1	784	2
10	2.9	706	−3



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/14/2003 (Day of Year 73)
NCEP/NCAR Reanalysis 1 Data Set





12UT

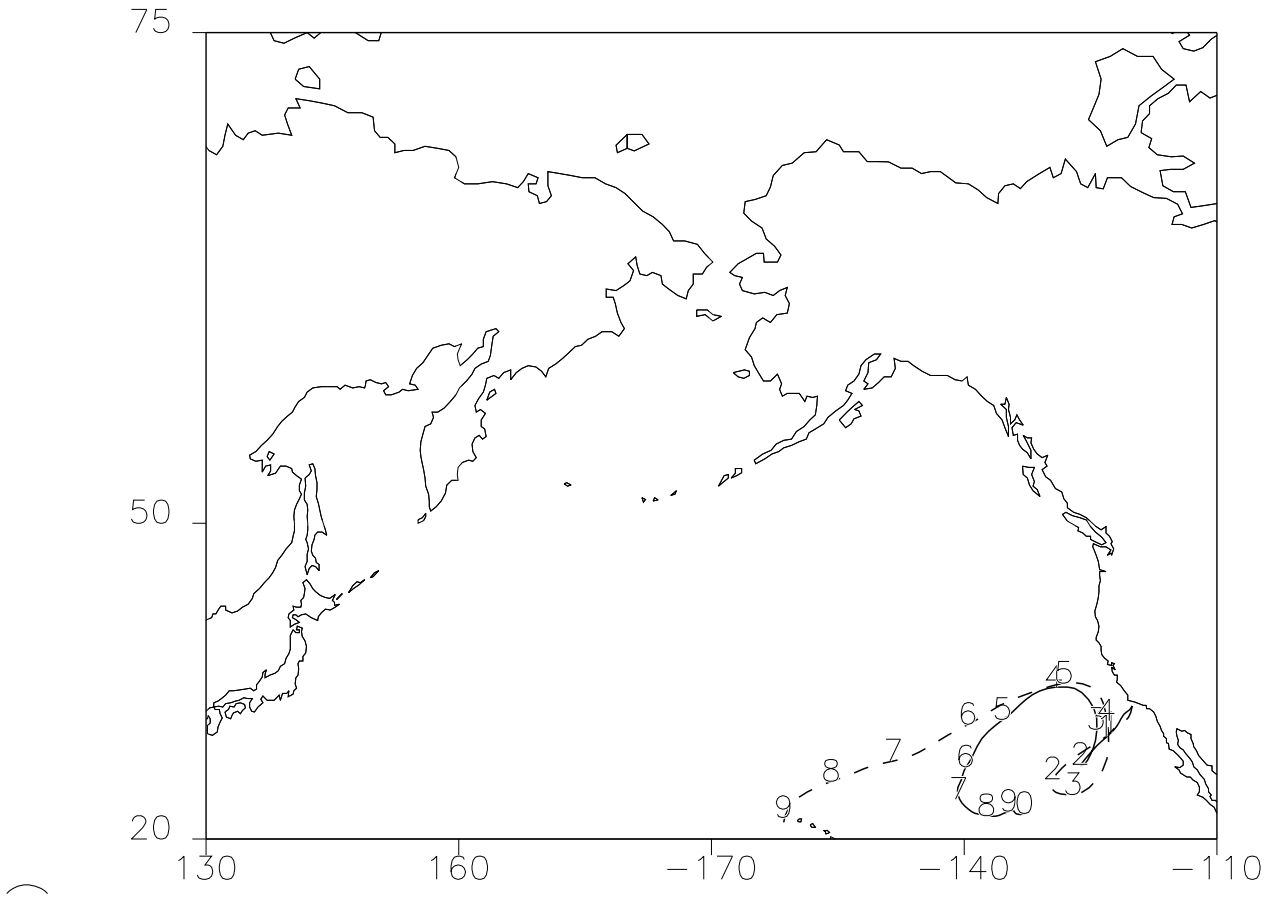
Day	km	hPa	C
0	0.3	980	13
1	0.2	989	14
2	0.2	991	13
3	0.3	981	13
4	0.4	970	14
5	0.6	945	11
6	1.0	900	11
7	1.6	835	7
8	1.8	824	8
9	2.4	754	2
10	3.4	668	−6

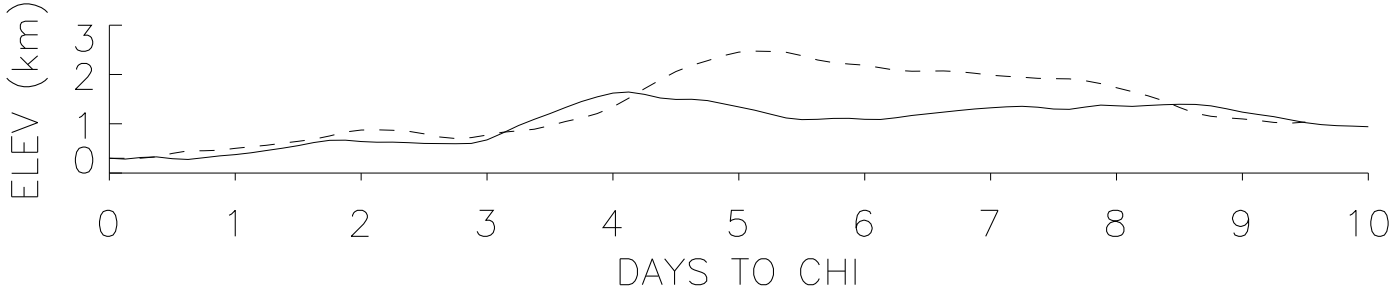
18UT

Day	km	hPa	C
0	0.3	981	14
1	0.3	983	13
2	0.4	971	14
3	0.5	960	13
4	0.7	945	13
5	0.6	949	13
6	1.1	899	12
7	1.6	845	10
8	2.1	788	5
9	2.1	787	5
10	3.7	640	−9

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/15/2003 (Day of Year 74)
NCEP/NCAR Reanalysis 1 Data Set





00UT

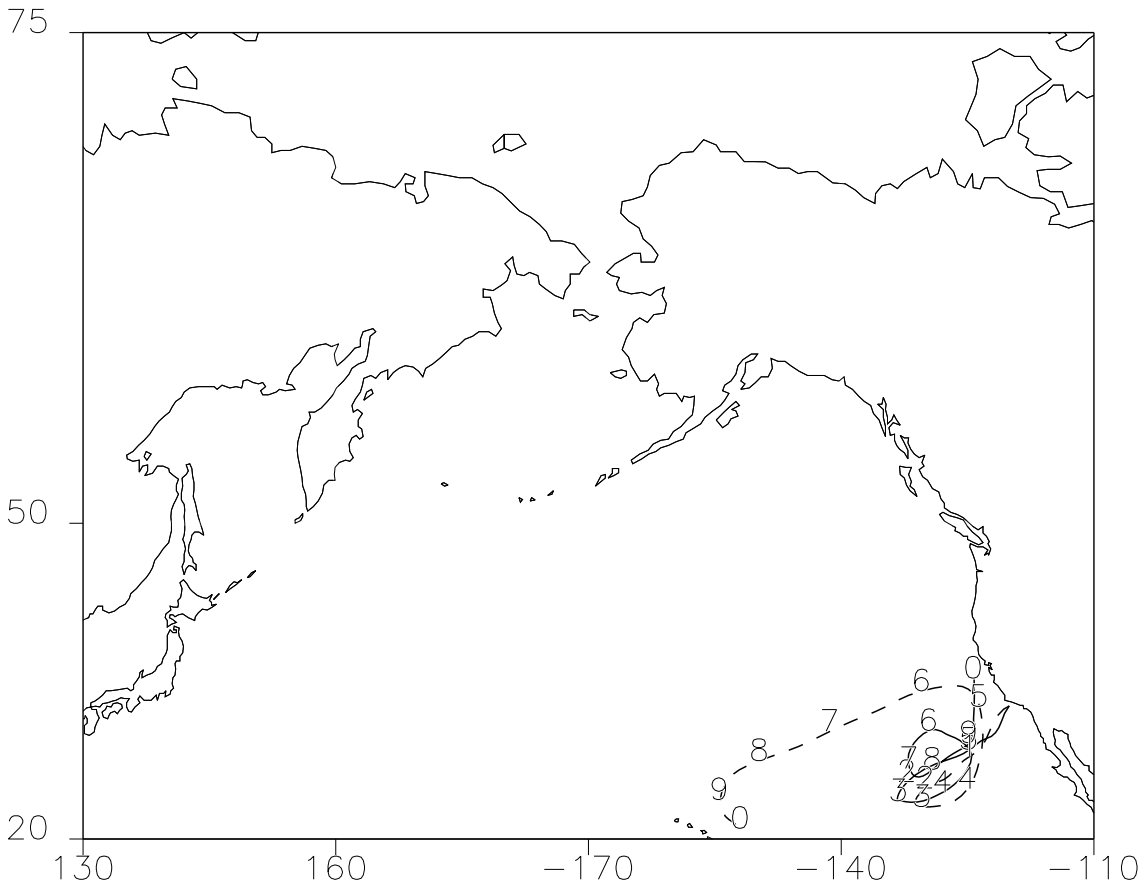
Day	km	hPa	C
0	0.3	978	16
1	0.4	972	12
2	0.6	942	14
3	0.7	941	13
4	1.6	843	8
5	1.3	870	10
6	1.1	894	14
7	1.3	869	12
8	1.4	865	12
9	1.2	878	12
10	0.9	910	13

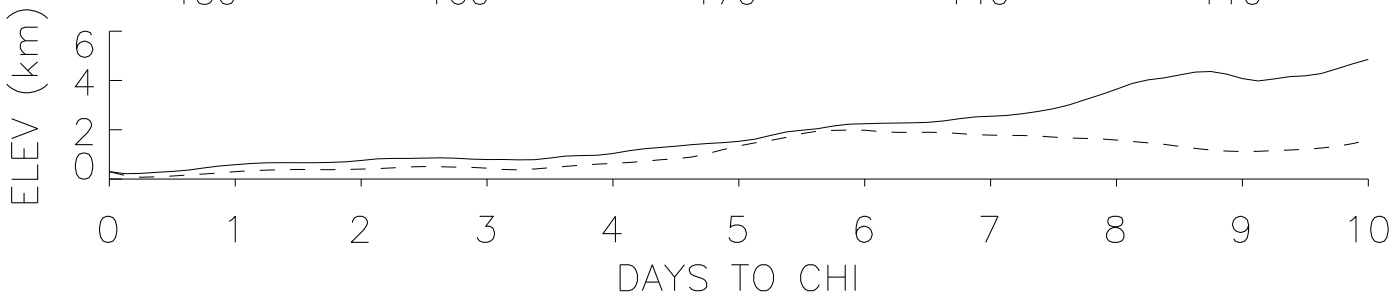
06UT

Day	km	hPa	C
0	0.3	976	15
1	0.5	958	14
2	0.9	918	10
3	0.8	930	13
4	1.3	870	13
5	2.5	761	4
6	2.2	782	6
7	2.0	800	7
8	1.7	825	11
9	1.1	892	15

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/15/2003 (Day of Year 74)
NCEP/NCAR Reanalysis 1 Data Set





12UT

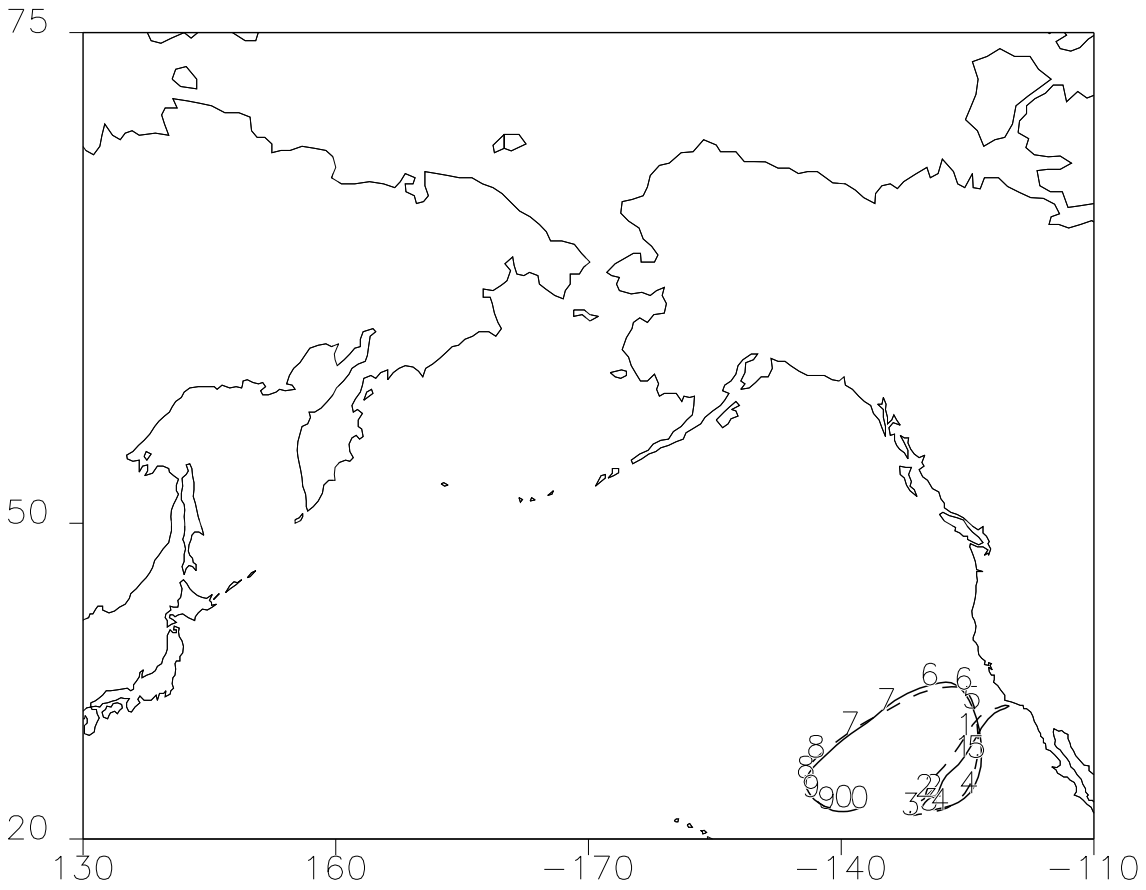
Day	km	hPa	C
0	0.3	973	15
1	0.6	948	15
2	0.8	929	11
3	0.8	926	11
4	1.0	901	14
5	1.5	851	15
6	2.2	781	6
7	2.5	750	5
8	3.6	652	−5
9	4.1	618	−6
10	4.9	556	−13

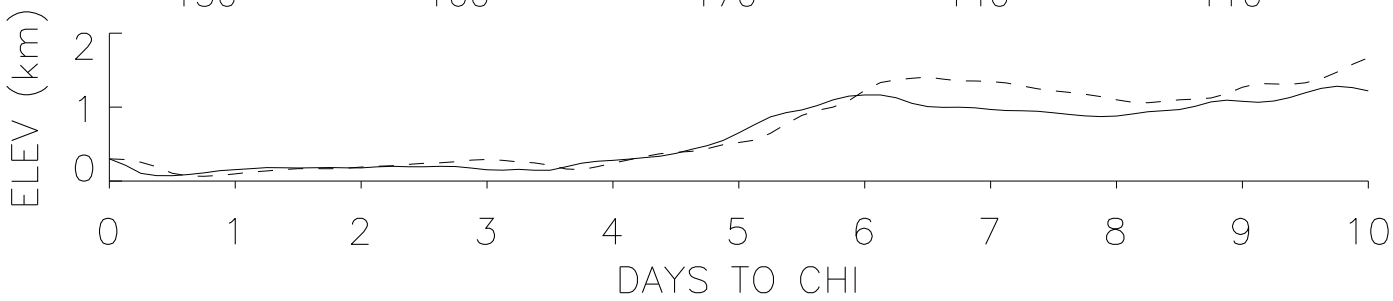
18UT

Day	km	hPa	C
0	0.3	973	15
1	0.3	982	16
2	0.4	970	15
3	0.4	967	15
4	0.6	946	13
5	1.3	871	10
6	2.0	806	7
7	1.8	820	8
8	1.6	841	10
9	1.1	891	14
10	1.6	845	12

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/16/2003 (Day of Year 75)
NCEP/NCAR Reanalysis 1 Data Set





00UT

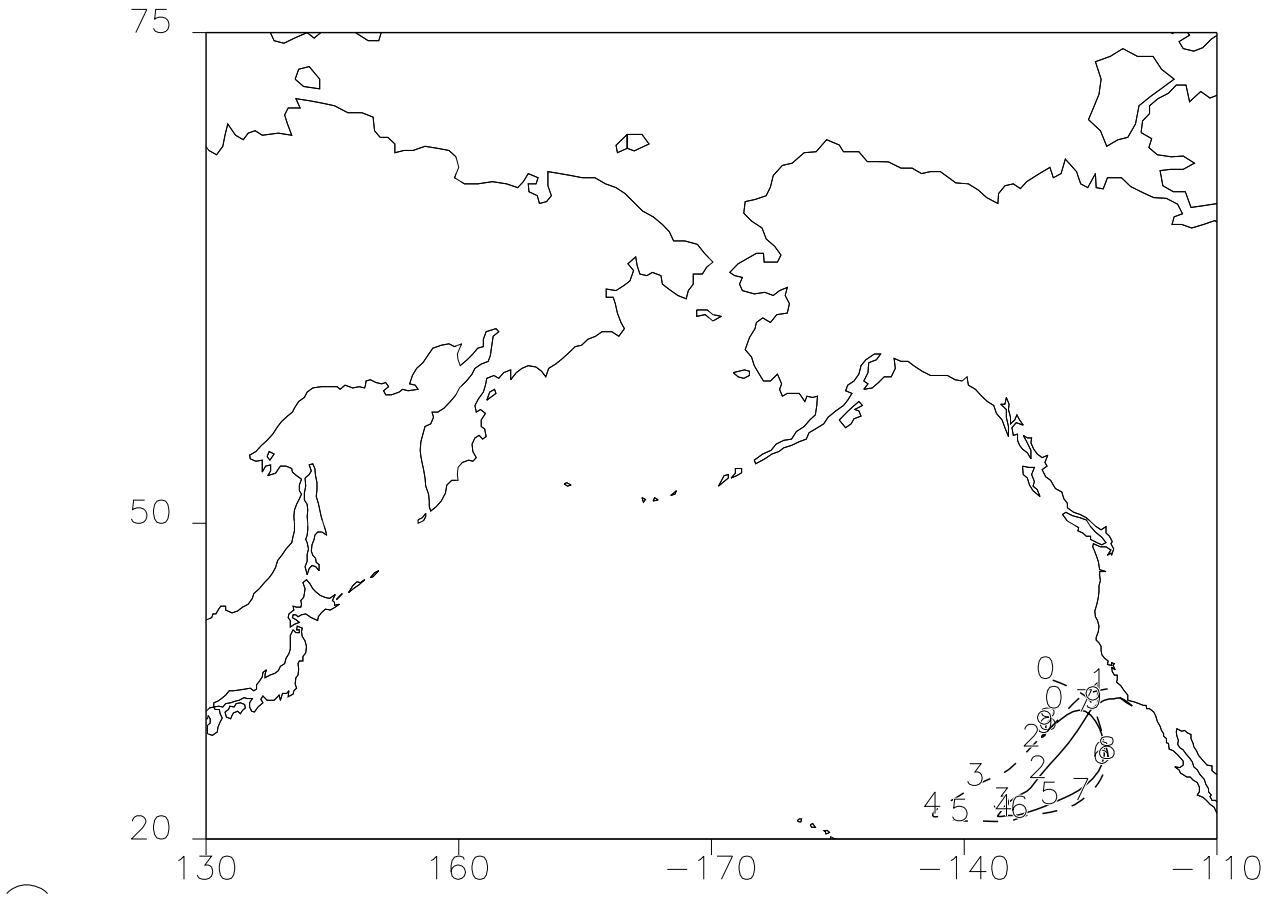
Day	km	hPa	C
0	0.3	973	14
1	0.2	997	17
2	0.2	995	18
3	0.2	998	18
4	0.3	984	16
5	0.7	945	12
6	1.2	889	9
7	1.0	906	13
8	0.9	915	14
9	1.1	895	13
10	1.2	879	12

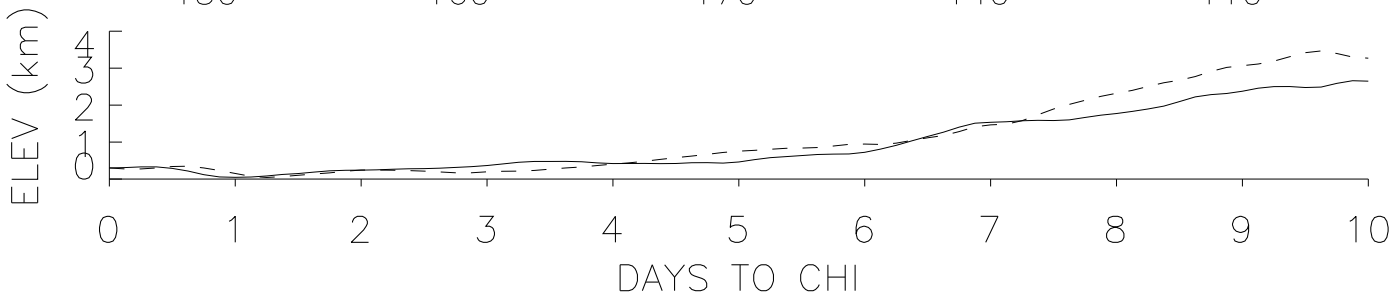
06UT

Day	km	hPa	C
0	0.3	972	13
1	0.1	999	17
2	0.2	996	18
3	0.3	983	17
4	0.2	990	16
5	0.5	960	13
6	1.2	884	10
7	1.3	868	9
8	1.1	891	13
9	1.3	876	12
10	1.7	835	9

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/16/2003 (Day of Year 75)
NCEP/NCAR Reanalysis 1 Data Set





12UT

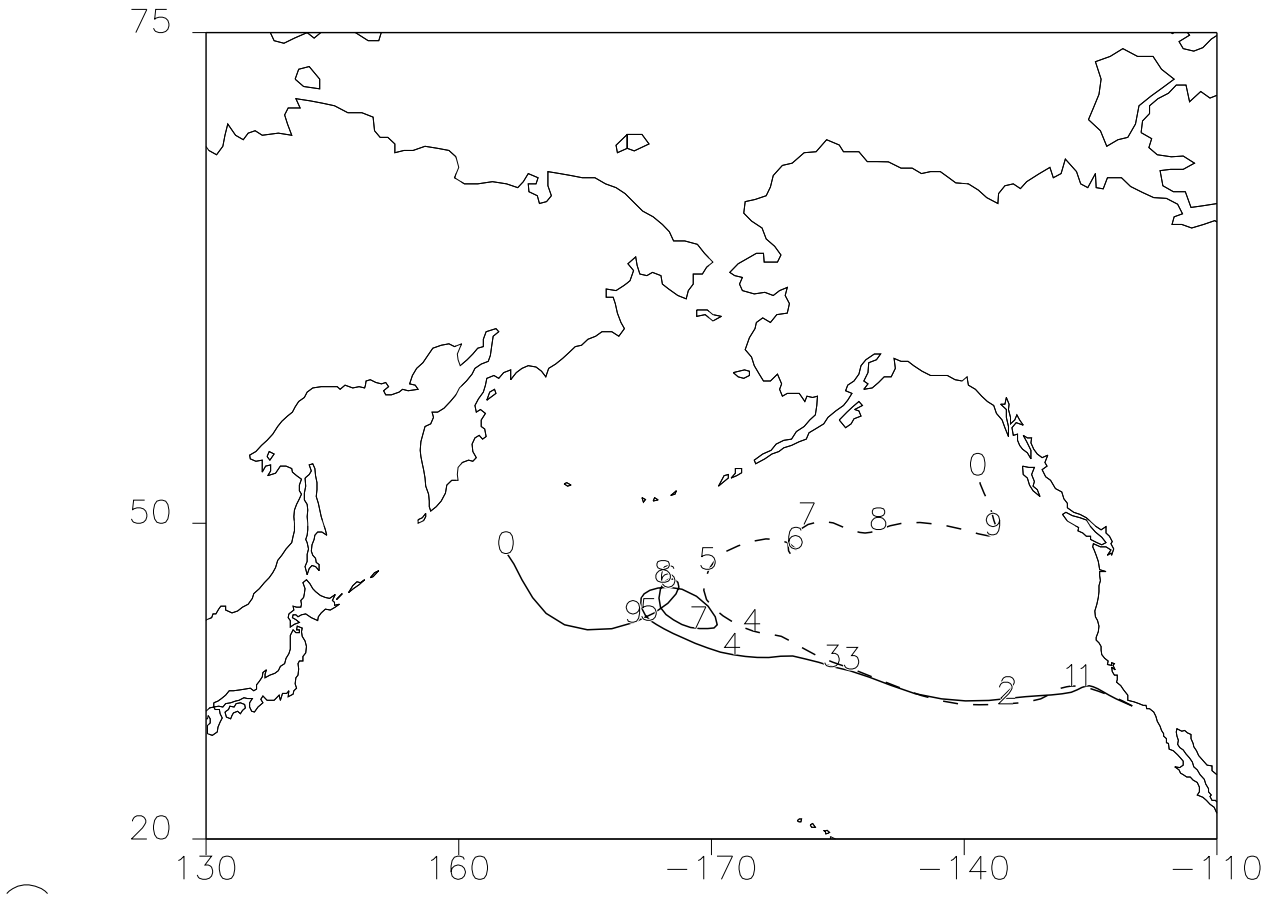
Day	km	hPa	C
0	0.3	972	11
1	0.0	1000	16
2	0.2	987	19
3	0.4	973	17
4	0.4	967	16
5	0.5	965	14
6	0.7	936	13
7	1.5	850	12
8	1.8	824	9
9	2.4	764	4
10	2.6	741	2

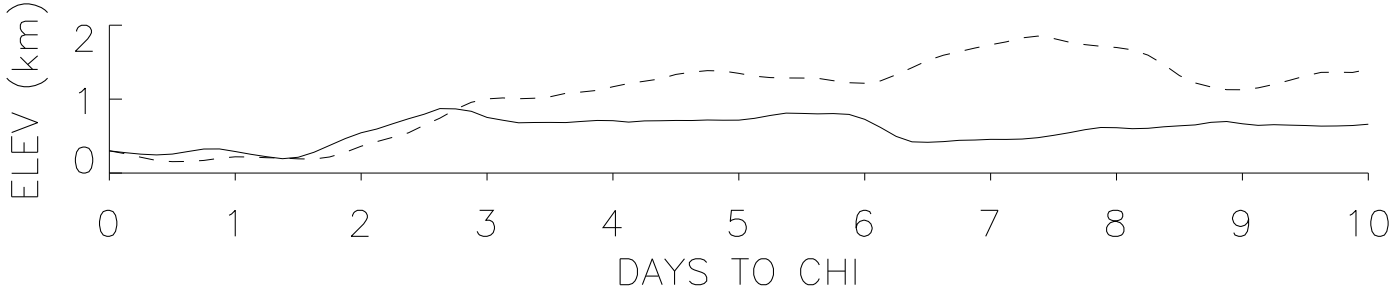
18UT

Day	km	hPa	C
0	0.3	974	13
1	0.2	989	14
2	0.2	984	18
3	0.2	992	20
4	0.4	970	17
5	0.8	933	14
6	0.9	914	13
7	1.5	859	17
8	2.3	774	9
9	3.1	702	1
10	3.3	687	−1

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/17/2003 (Day of Year 76)
NCEP/NCAR Reanalysis 1 Data Set





00UT

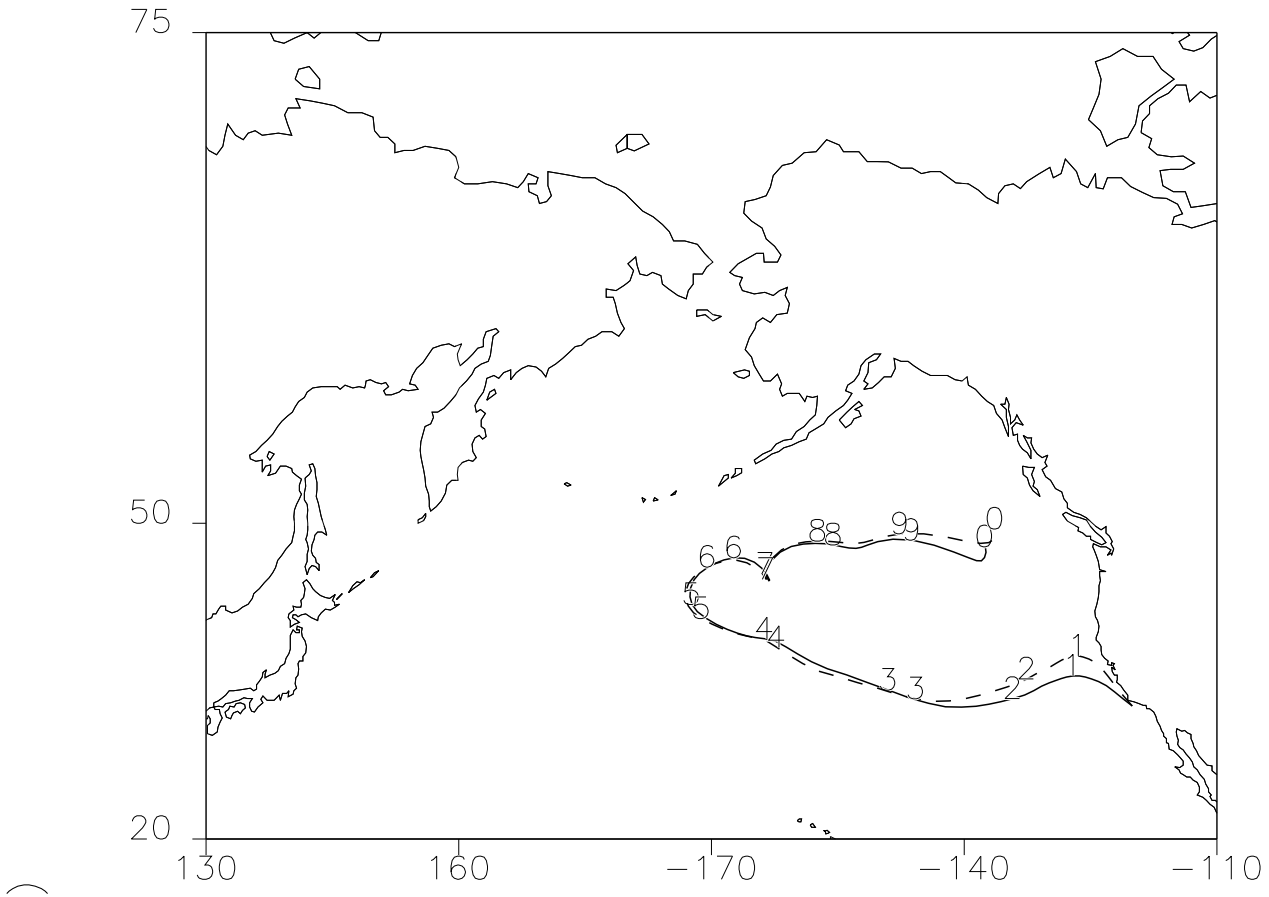
Day	km	hPa	C
0	0.3	974	12
1	0.3	972	12
2	0.5	938	10
3	0.8	906	4
4	0.7	919	4
5	0.7	905	2
6	0.7	898	1
7	0.5	947	4
8	0.6	922	0
9	0.7	921	−1
10	0.7	937	−8

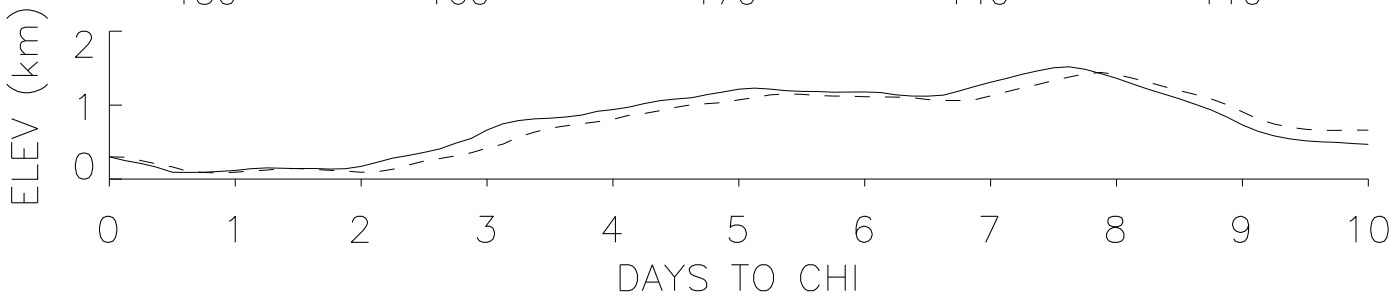
06UT

Day	km	hPa	C
0	0.3	976	12
1	0.2	982	13
2	0.4	962	12
3	1.0	882	−1
4	1.2	863	−1
5	1.3	837	−3
6	1.2	850	−2
7	1.7	804	−8
8	1.7	813	−9
9	1.1	880	−6
10	1.4	848	−11

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/17/2003 (Day of Year 76)
NCEP/NCAR Reanalysis 1 Data Set





12UT

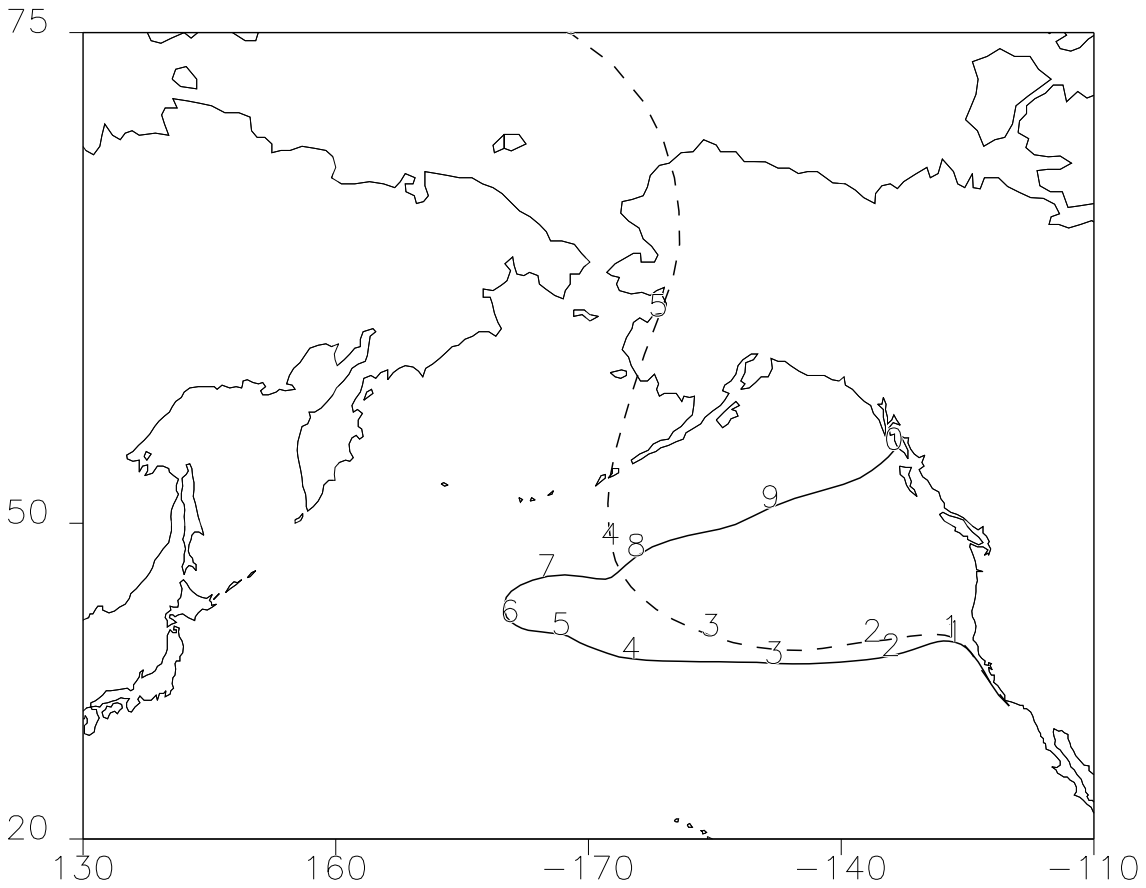
Day	km	hPa	C
0	0.3	976	10
1	0.1	993	13
2	0.2	982	13
3	0.7	923	5
4	0.9	887	2
5	1.2	857	−2
6	1.2	848	−6
7	1.3	849	−5
8	1.4	848	−5
9	0.7	914	0
10	0.5	956	2

18UT

Day	km	hPa	C
0	0.3	978	11
1	0.1	998	11
2	0.1	991	14
3	0.4	955	9
4	0.8	902	3
5	1.1	875	0
6	1.1	856	−4
7	1.1	867	−5
8	1.4	840	−5
9	0.9	895	−2
10	0.7	933	−2

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/18/2003 (Day of Year 77)
NCEP/NCAR Reanalysis 1 Data Set

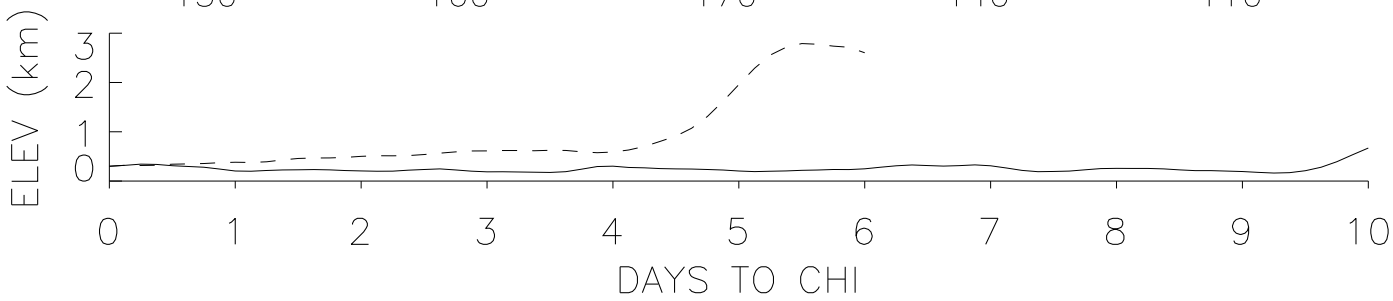


00UT

Day	km	hPa	C
0	0.3	978	11
1	0.2	986	10
2	0.2	977	11
3	0.2	974	9
4	0.3	966	7
5	0.2	976	7
6	0.2	960	5
7	0.3	948	3
8	0.3	969	4
9	0.2	986	1
10	0.7	934	−13

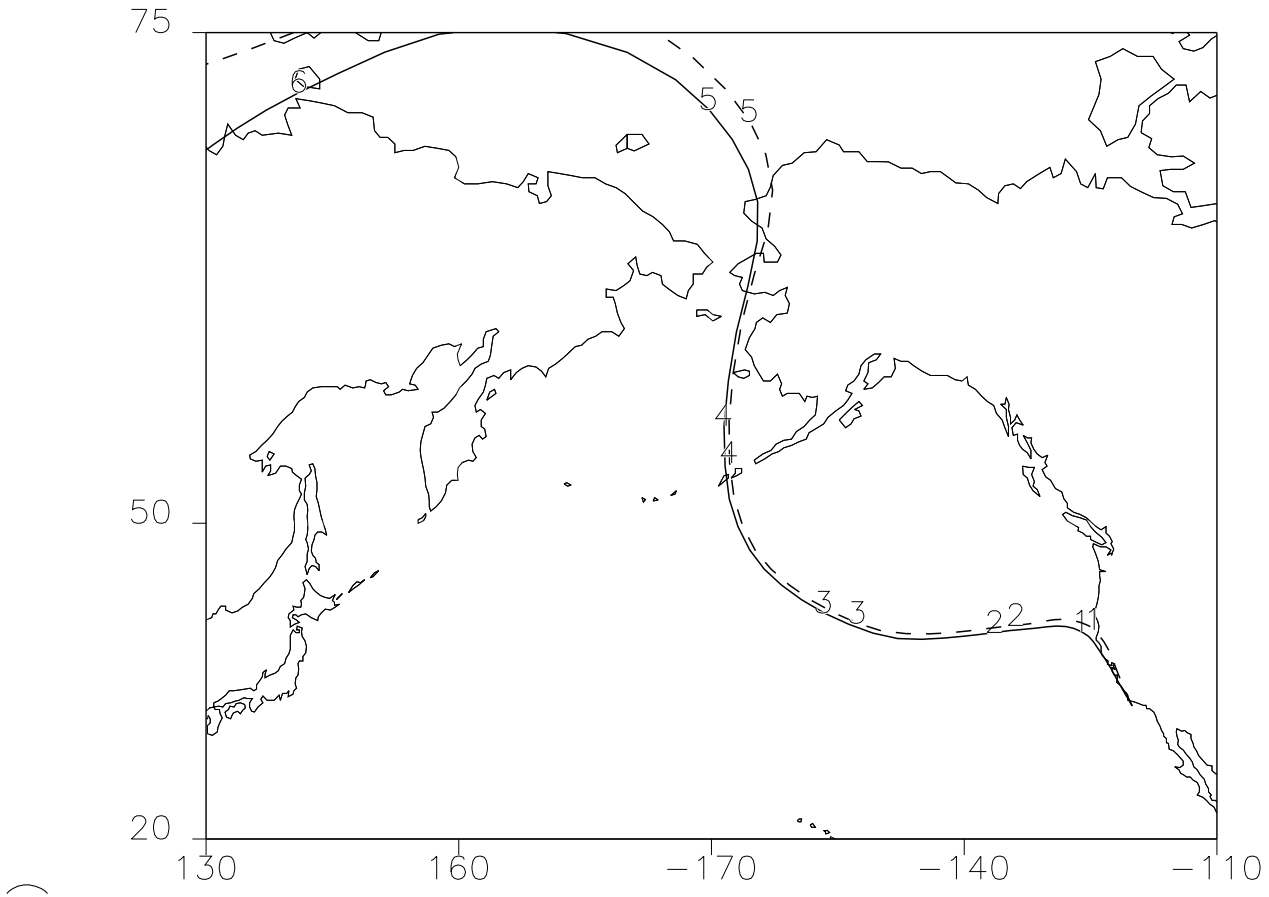
06UT

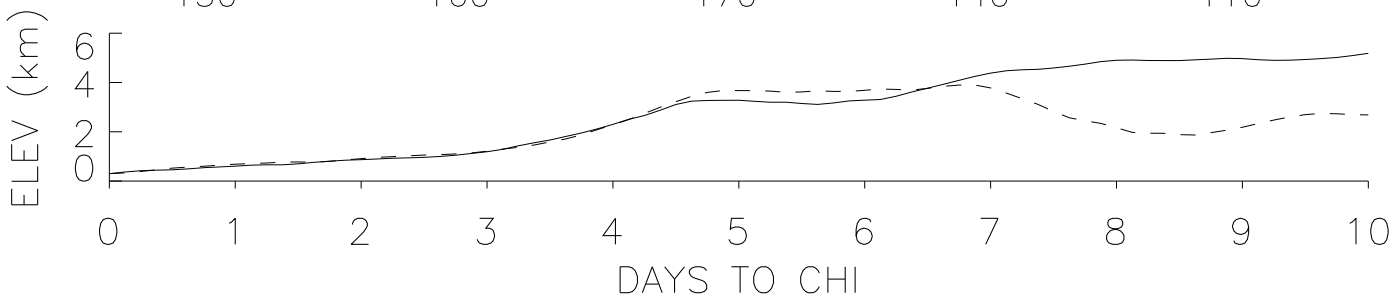
Day	km	hPa	C
0	0.3	982	11
1	0.4	970	8
2	0.5	944	5
3	0.6	926	1
4	0.6	924	−3
5	2.0	781	−23
6	2.6	727	−27



00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/18/2003 (Day of Year 77)
NCEP/NCAR Reanalysis 1 Data Set





12UT

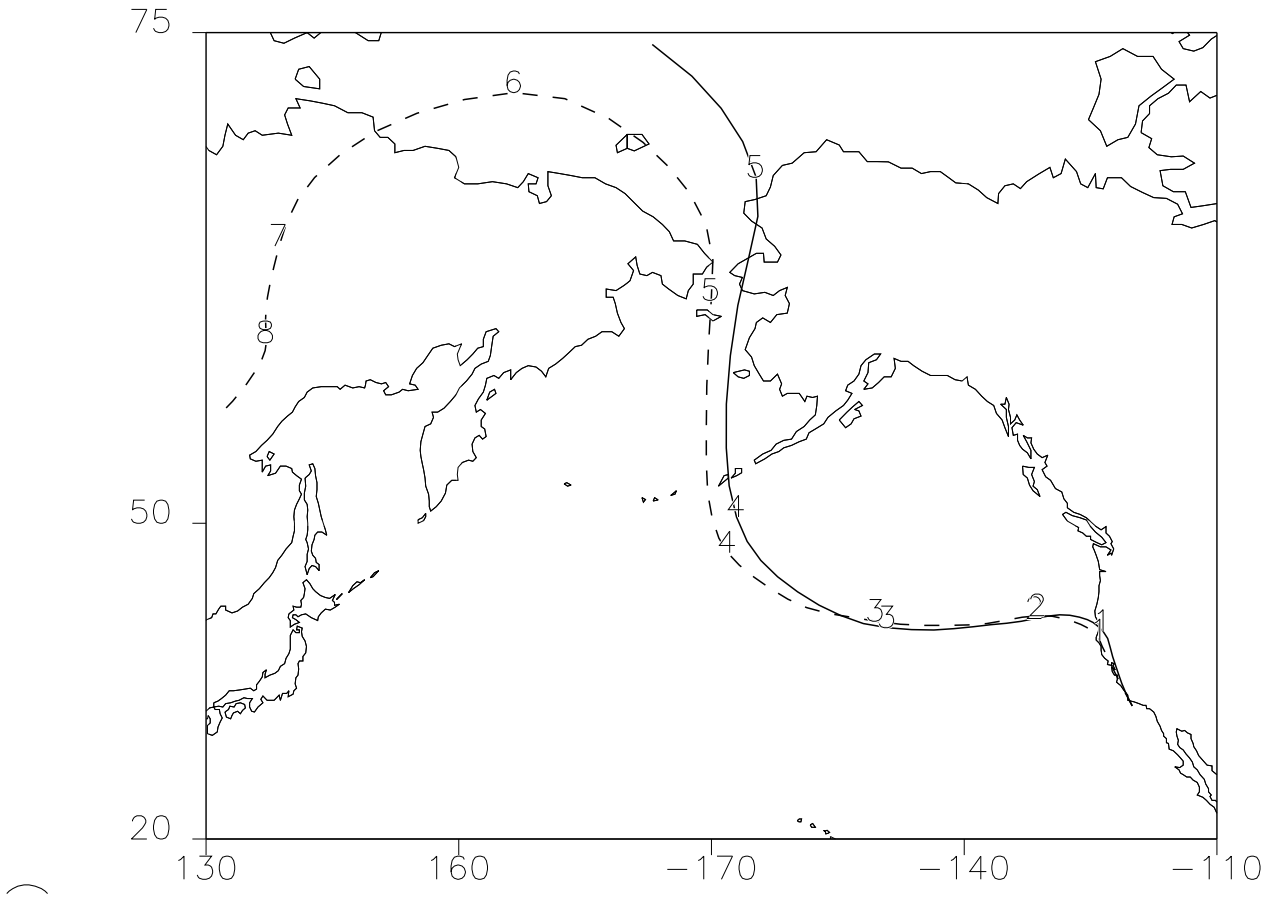
Day	km	hPa	C
0	0.3	983	10
1	0.6	945	4
2	0.9	902	2
3	1.2	858	−5
4	2.3	738	−18
5	3.3	656	−26
6	3.3	663	−25
7	4.4	567	−35
8	4.9	516	−44
9	5.0	503	−47
10	5.2	488	−50

18UT

Day	km	hPa	C
0	0.3	983	13
1	0.7	939	4
2	0.9	901	1
3	1.2	857	−5
4	2.3	739	−17
5	3.7	617	−29
6	3.7	620	−26
7	3.8	611	−25
8	2.2	754	−12
9	2.2	763	−10
10	2.7	713	−13

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/19/2003 (Day of Year 78)
NCEP/NCAR Reanalysis 1 Data Set

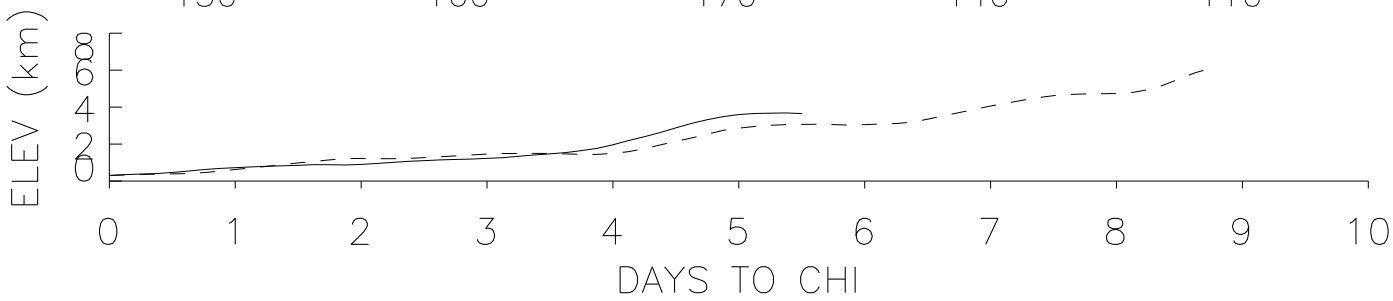


00UT

Day	km	hPa	C
0	0.3	981	14
1	0.7	936	6
2	0.9	905	2
3	1.2	857	−5
4	2.0	774	−12
5	3.6	624	−28

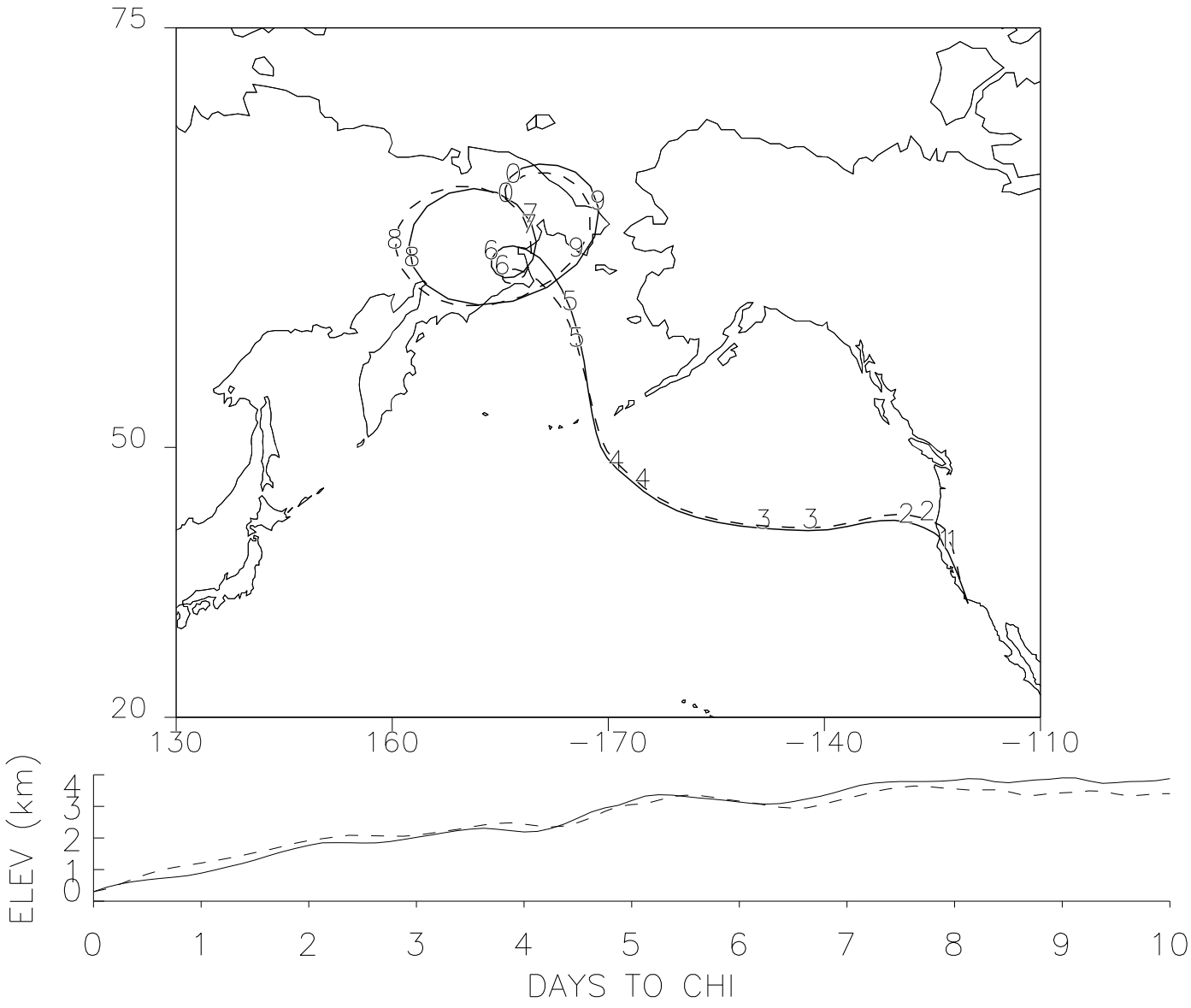
06UT

Day	km	hPa	C
0	0.3	983	12
1	0.6	950	6
2	1.2	873	0
3	1.5	834	−6
4	1.5	829	−9
5	2.9	691	−19
6	3.1	684	−19
7	4.1	601	−28
8	4.7	550	−32



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/19/2003 (Day of Year 78)
NCEP/NCAR Reanalysis 1 Data Set



12UT

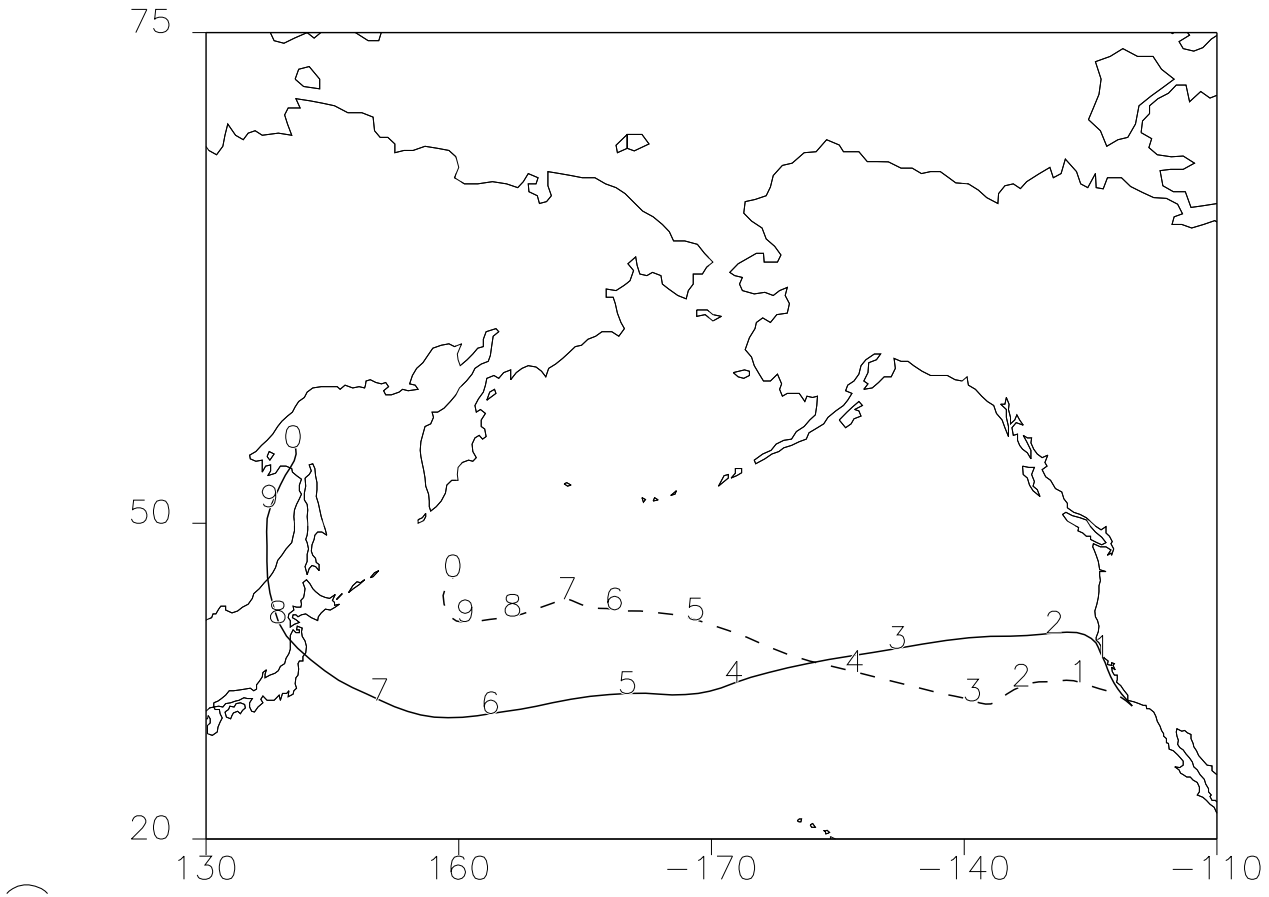
Day	km	hPa	C
0	0.3	983	10
1	0.9	920	3
2	1.8	816	−5
3	2.0	777	−7
4	2.2	758	−11
5	3.2	668	−15
6	3.1	685	−11
7	3.6	656	−11
8	3.8	637	−13
9	3.9	634	−12
10	3.9	641	−7

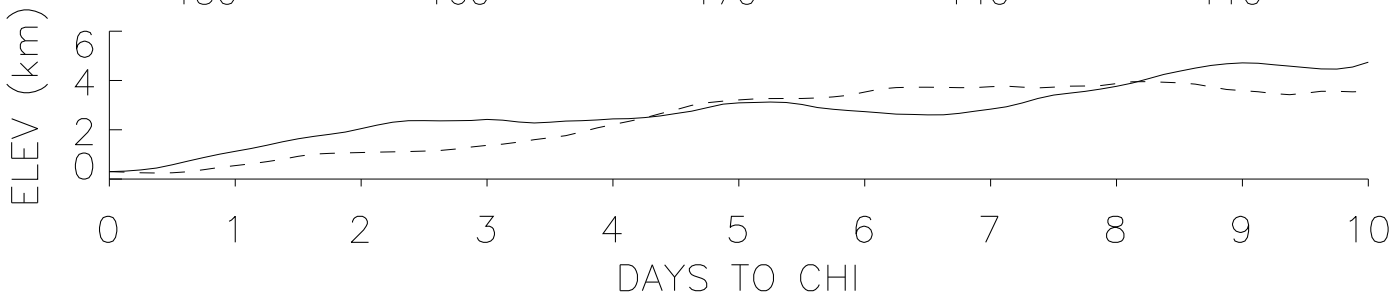
18UT

Day	km	hPa	C
0	0.3	984	12
1	1.2	885	4
2	1.9	805	−5
3	2.1	773	−8
4	2.4	733	−12
5	3.1	677	−16
6	3.2	679	−12
7	3.3	680	−10
8	3.6	659	−13
9	3.4	673	−9
10	3.4	680	−4

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/20/2003 (Day of Year 79)
NCEP/NCAR Reanalysis 1 Data Set





00UT

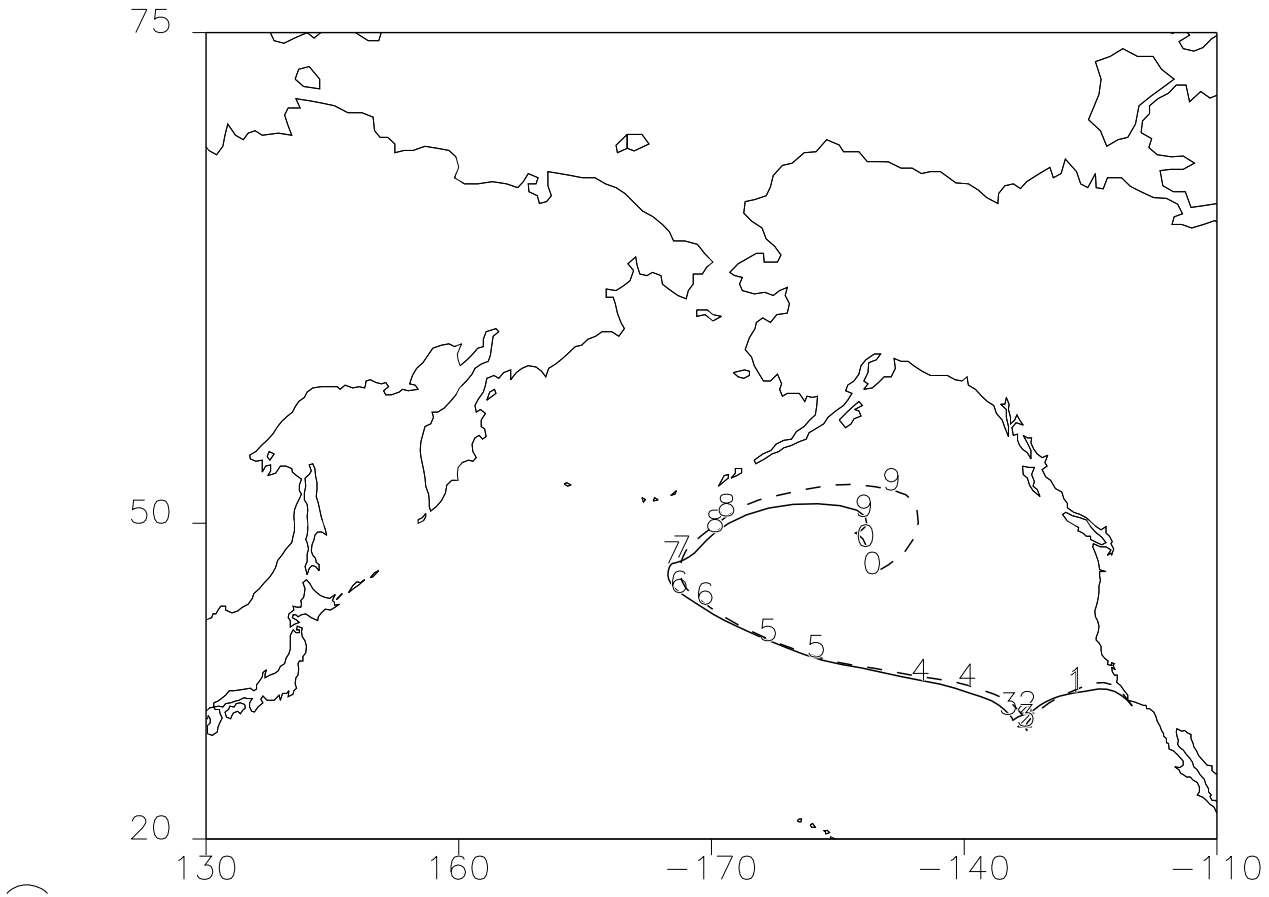
Day	km	hPa	C
0	0.3	983	15
1	1.1	893	7
2	2.0	795	−2
3	2.4	749	−6
4	2.4	751	−6
5	3.1	694	−10
6	2.7	724	−9
7	2.8	711	−14
8	3.8	628	−22
9	4.7	550	−30
10	4.7	551	−28

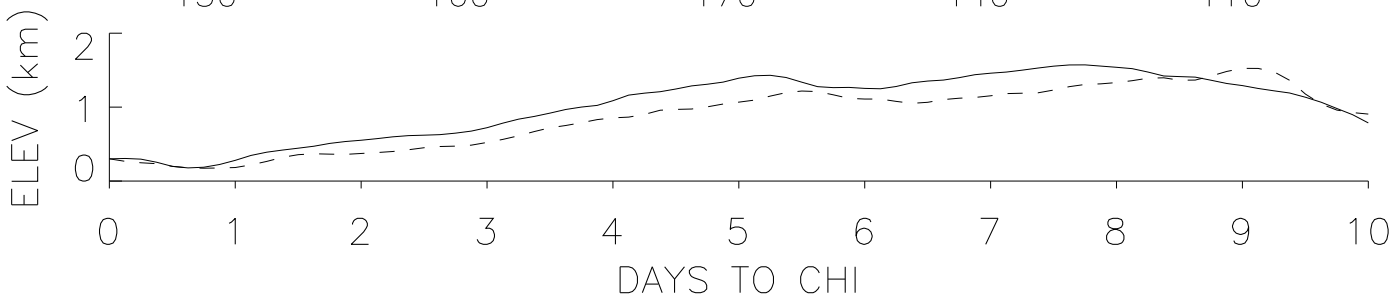
06UT

Day	km	hPa	C
0	0.3	985	13
1	0.5	959	8
2	1.1	901	6
3	1.4	868	5
4	2.2	769	−6
5	3.2	672	−14
6	3.5	639	−18
7	3.7	617	−20
8	3.9	604	−22
9	3.6	629	−19
10	3.6	624	−18

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/20/2003 (Day of Year 79)
NCEP/NCAR Reanalysis 1 Data Set





12UT

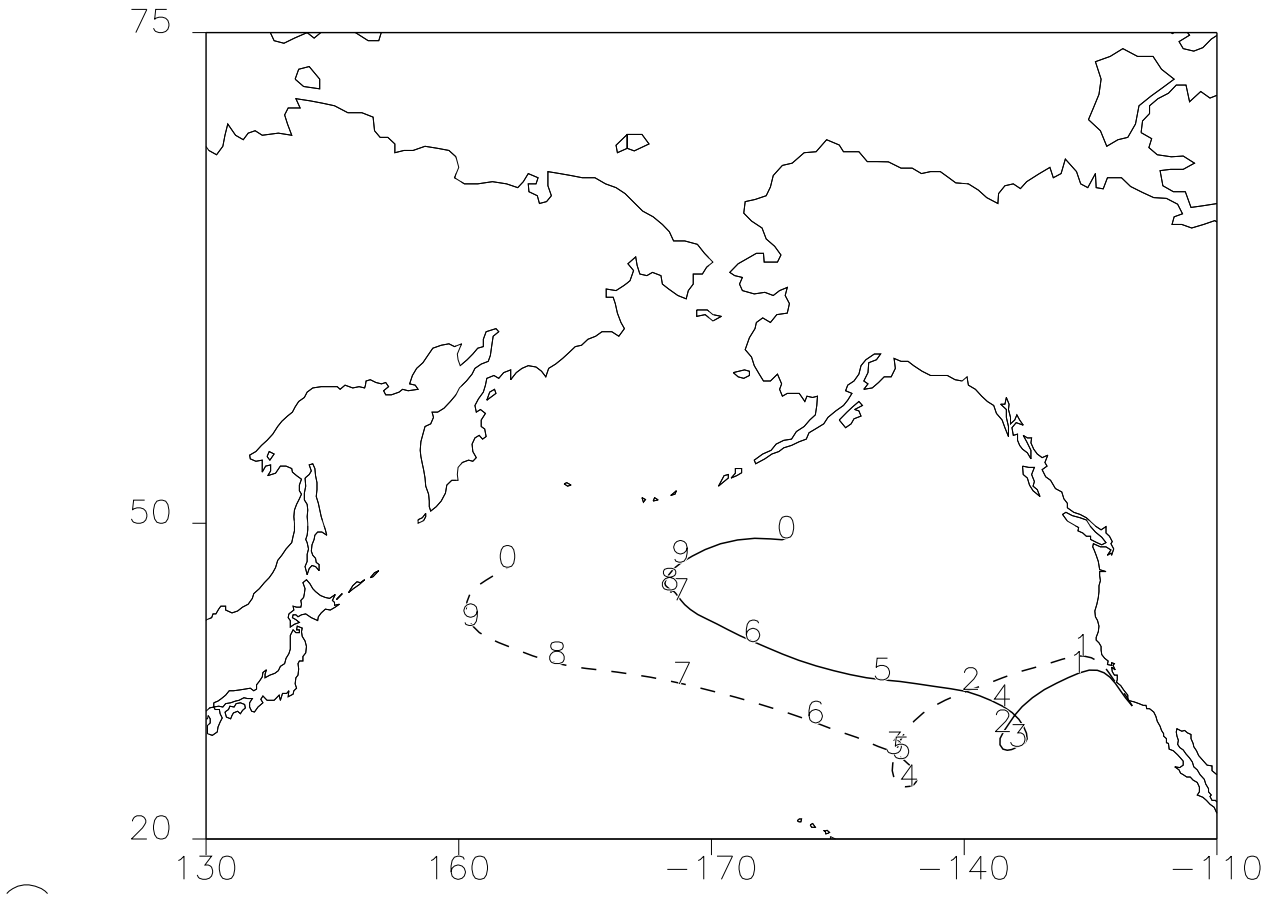
Day	km	hPa	C
0	0.3	983	12
1	0.3	989	12
2	0.6	963	8
3	0.7	940	8
4	1.1	888	2
5	1.4	848	−6
6	1.3	858	−4
7	1.5	833	−4
8	1.5	821	−5
9	1.3	846	−3
10	0.8	900	2

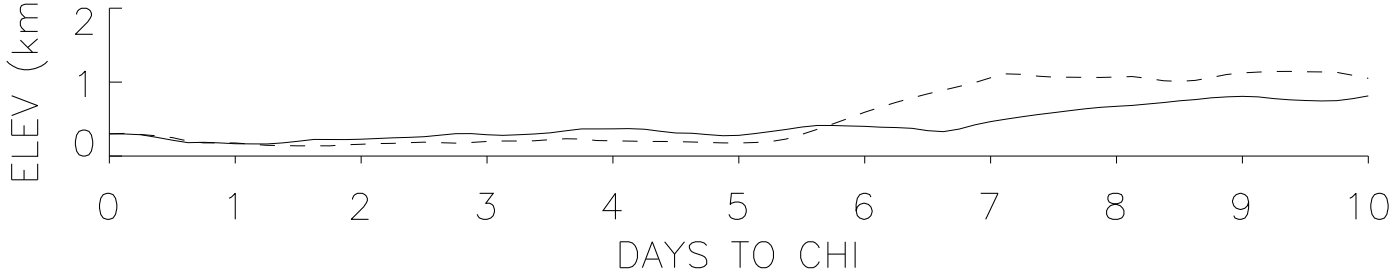
18UT

Day	km	hPa	C
0	0.3	985	12
1	0.2	999	13
2	0.4	985	11
3	0.5	965	10
4	0.9	916	4
5	1.1	883	−1
6	1.1	874	−4
7	1.2	865	−5
8	1.3	846	−3
9	1.5	825	−7
10	0.9	887	2

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/21/2003 (Day of Year 80)
NCEP/NCAR Reanalysis 1 Data Set





00UT

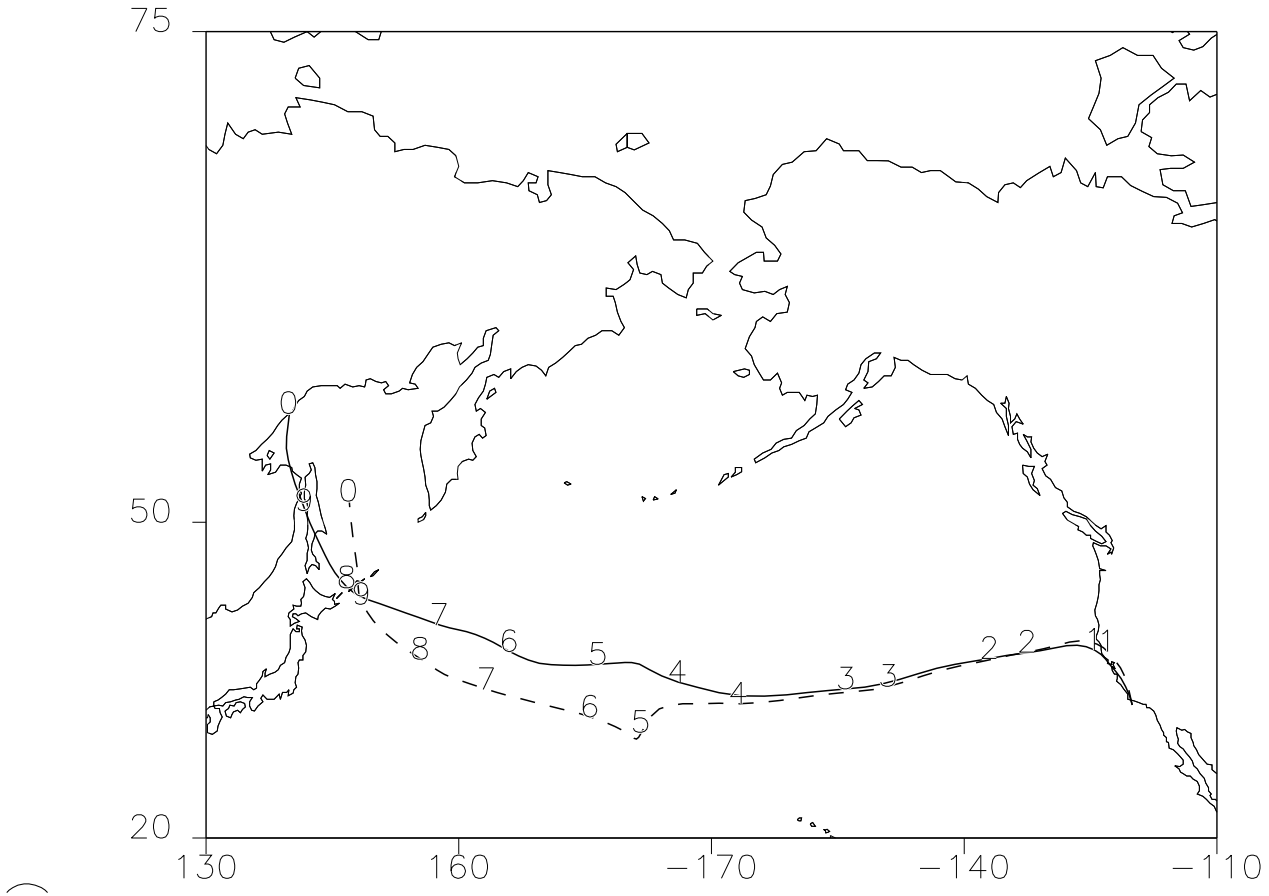
Day	km	hPa	C
0	0.3	983	13
1	0.2	1000	12
2	0.2	1000	14
3	0.3	993	13
4	0.4	975	11
5	0.3	975	8
6	0.4	959	3
7	0.5	944	2
8	0.7	919	0
9	0.8	895	−1
10	0.8	898	−2

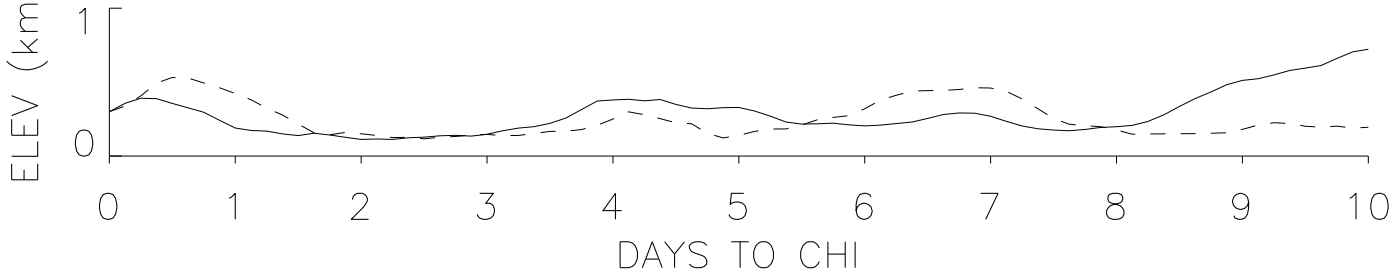
06UT

Day	km	hPa	C
0	0.3	985	11
1	0.2	1000	11
2	0.2	1000	14
3	0.2	1000	19
4	0.2	1000	16
5	0.2	999	16
6	0.6	947	9
7	1.1	887	3
8	1.1	881	1
9	1.1	868	−4
10	1.1	877	−3

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/21/2003 (Day of Year 80)
NCEP/NCAR Reanalysis 1 Data Set





12UT

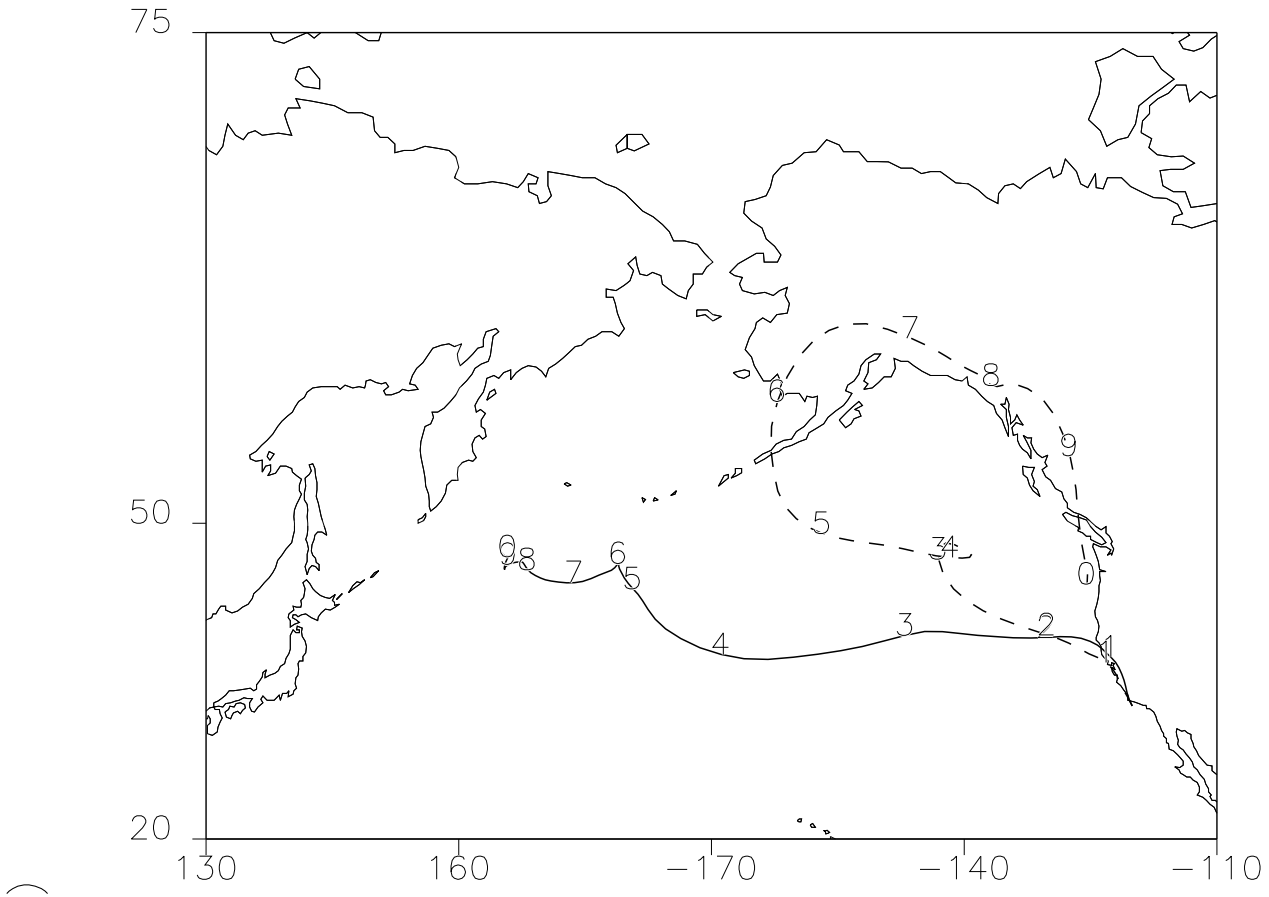
Day	km	hPa	C
0	0.3	984	12
1	0.2	998	9
2	0.1	999	12
3	0.1	997	12
4	0.4	960	7
5	0.3	971	5
6	0.2	988	3
7	0.3	983	−2
8	0.2	994	−5
9	0.5	964	−10
10	0.7	945	−13

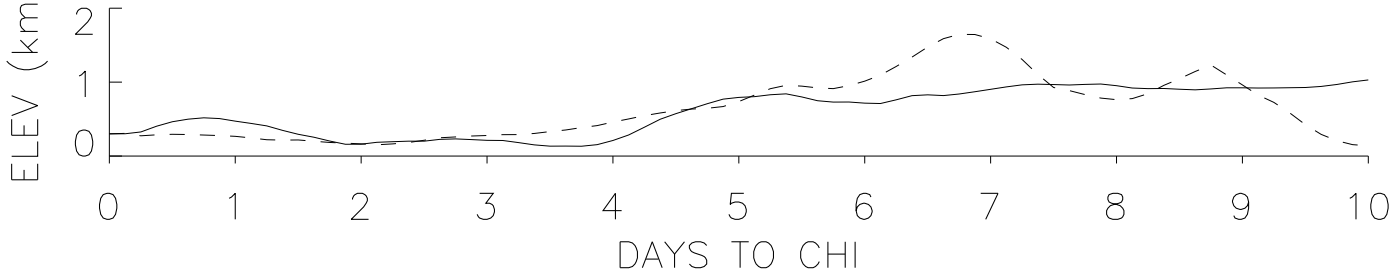
18UT

Day	km	hPa	C
0	0.3	986	15
1	0.4	974	9
2	0.2	995	12
3	0.1	1000	13
4	0.2	978	12
5	0.1	997	14
6	0.3	978	10
7	0.5	962	3
8	0.2	996	2
9	0.2	996	−2
10	0.2	1000	−4

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/22/2003 (Day of Year 81)
NCEP/NCAR Reanalysis 1 Data Set





00UT

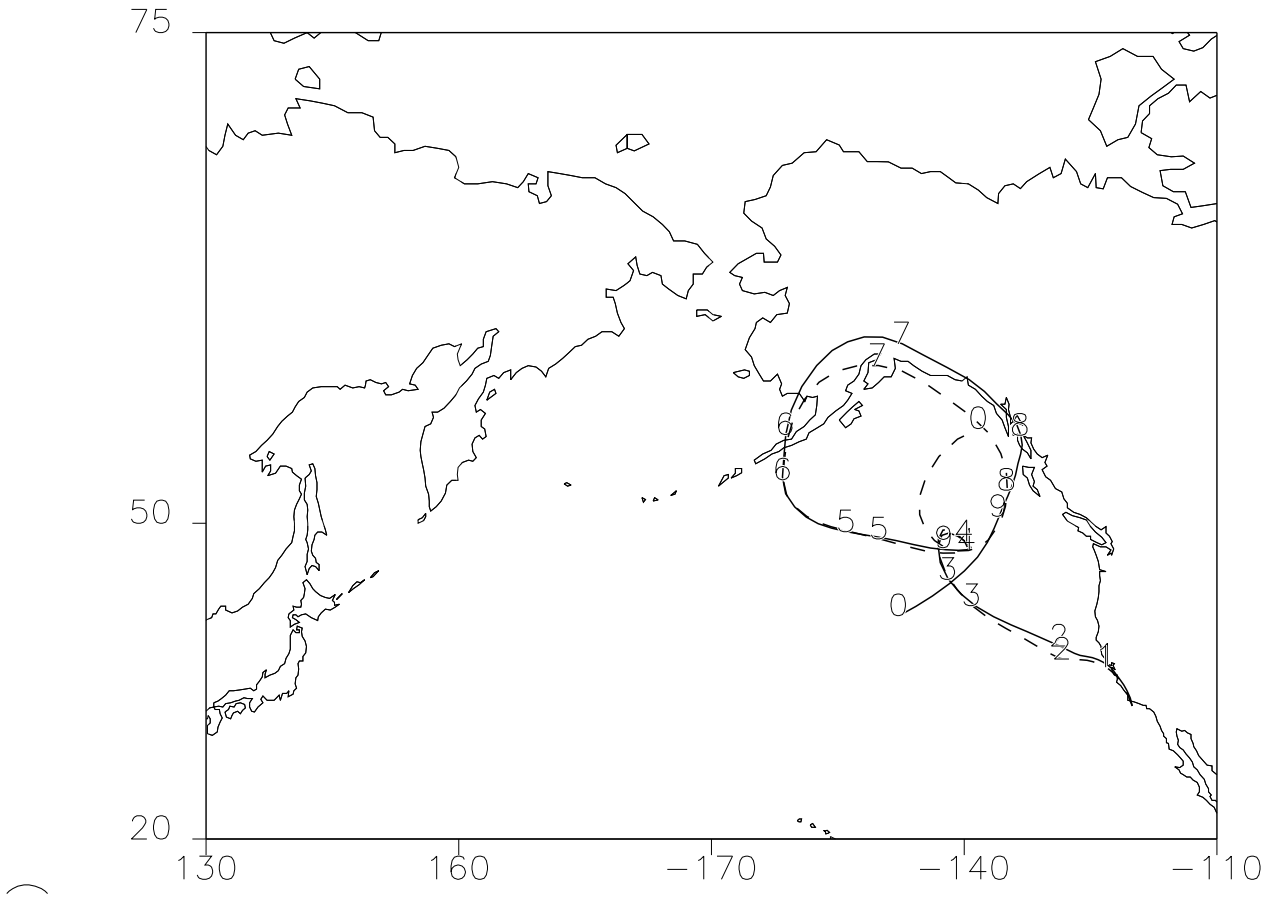
Day	km	hPa	C
0	0.3	983	17
1	0.5	966	11
2	0.2	994	9
3	0.2	977	9
4	0.2	977	6
5	0.8	905	−5
6	0.7	920	−3
7	0.9	902	−4
8	1.0	895	−6
9	0.9	891	−6
10	1.0	875	−6

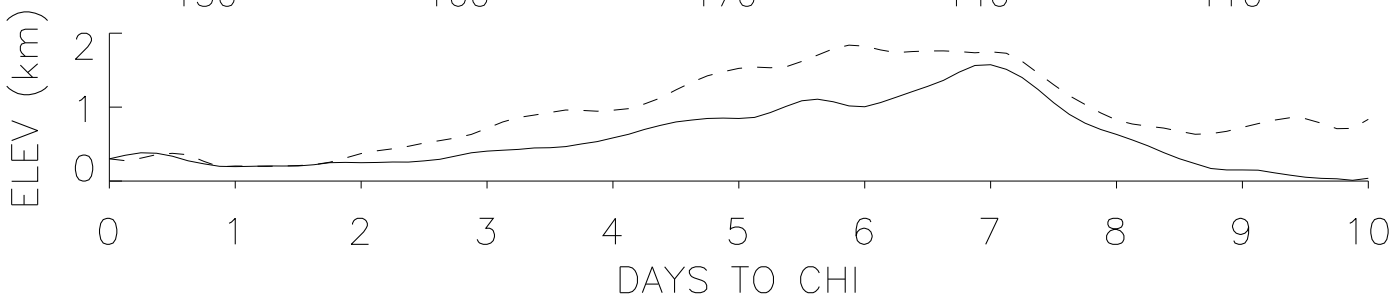
06UT

Day	km	hPa	C
0	0.3	985	14
1	0.3	992	10
2	0.2	1000	9
3	0.3	967	4
4	0.5	955	1
5	0.7	905	−3
6	1.0	868	−8
7	1.6	806	−14
8	0.8	883	−6
9	1.0	866	−1
10	0.1	994	9

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/22/2003 (Day of Year 81)
NCEP/NCAR Reanalysis 1 Data Set





12UT

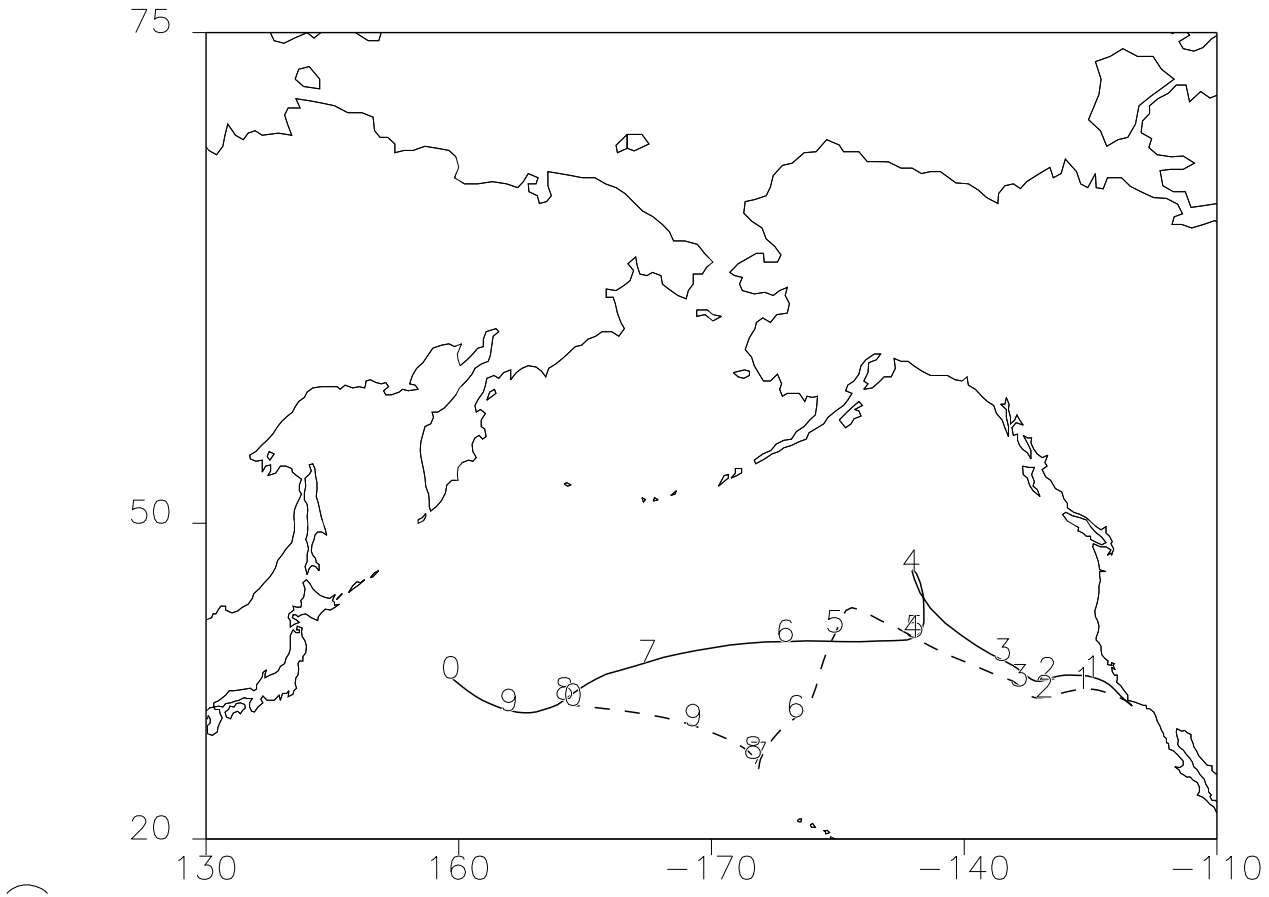
Day	km	hPa	C
0	0.3	984	14
1	0.2	1000	11
2	0.2	993	8
3	0.4	955	3
4	0.6	942	−1
5	0.8	893	−4
6	1.0	866	−7
7	1.6	806	−10
8	0.6	907	0
9	0.2	947	6
10	0.0	977	11

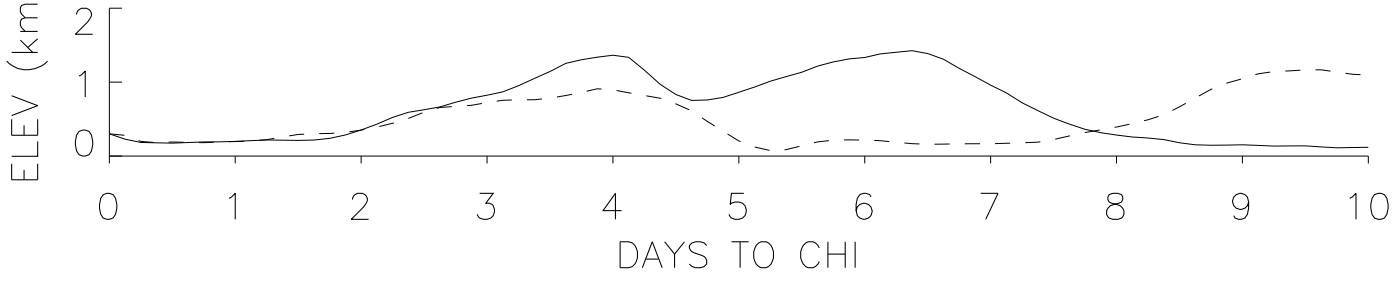
18UT

Day	km	hPa	C
0	0.3	986	15
1	0.2	1000	13
2	0.4	982	8
3	0.7	926	1
4	1.0	896	−2
5	1.5	824	−8
6	1.8	781	−10
7	1.7	785	−9
8	0.8	886	−3
9	0.7	889	−3
10	0.8	888	−10

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/23/2003 (Day of Year 82)
NCEP/NCAR Reanalysis 1 Data Set





00UT

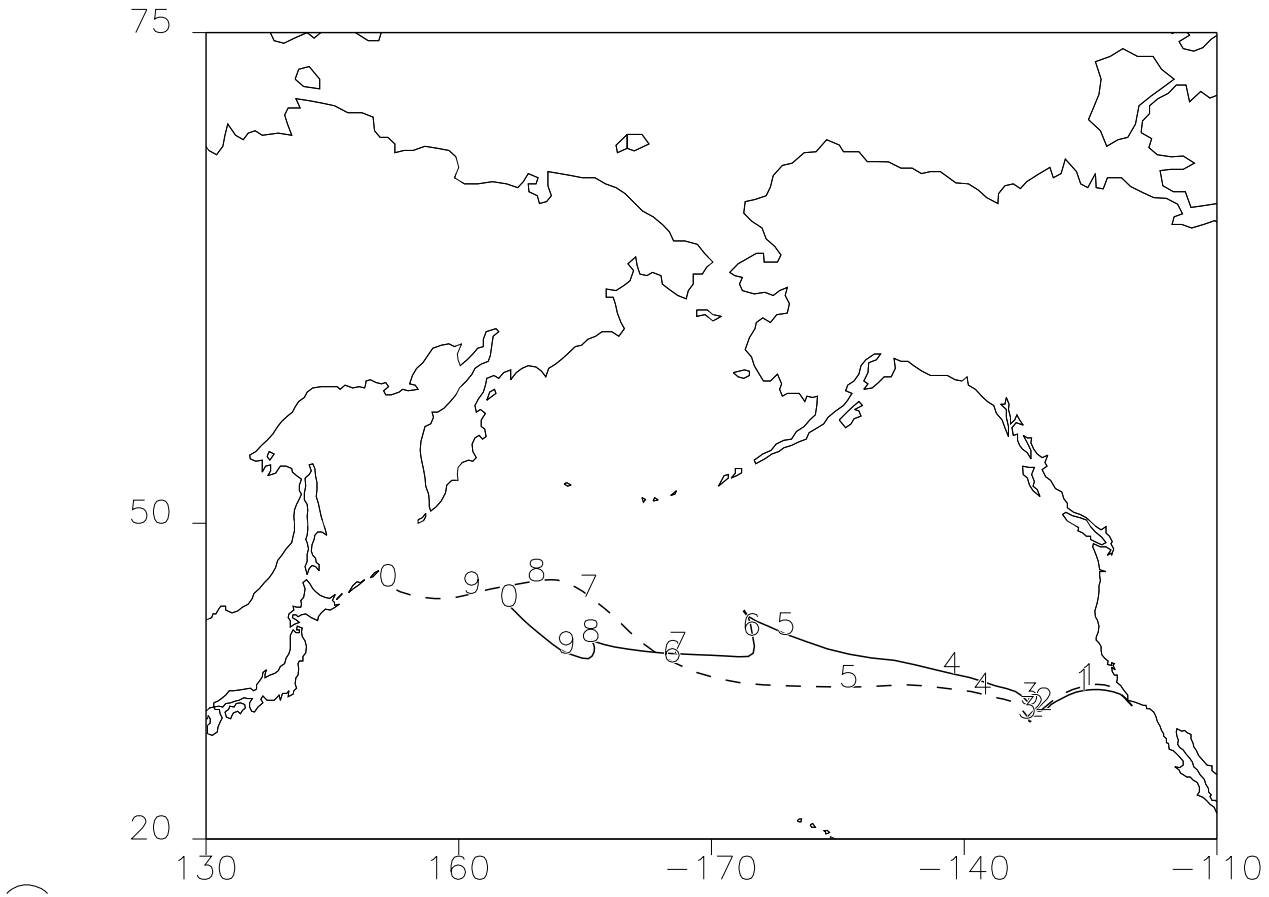
Day	km	hPa	C
0	0.3	984	16
1	0.2	1000	12
2	0.4	985	9
3	0.8	924	5
4	1.4	844	−1
5	0.9	913	4
6	1.3	853	1
7	1.0	894	4
8	0.3	982	10
9	0.2	1000	10
10	0.1	999	6

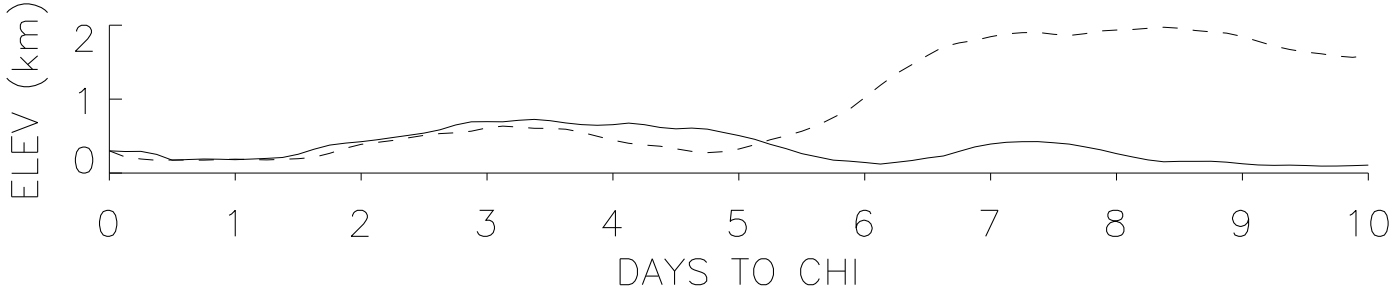
06UT

Day	km	hPa	C
0	0.3	985	13
1	0.2	1000	11
2	0.4	986	10
3	0.7	940	8
4	0.9	905	3
5	0.2	971	9
6	0.2	989	15
7	0.2	1000	17
8	0.4	974	14
9	1.0	895	6
10	1.1	883	4

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/23/2003 (Day of Year 82)
NCEP/NCAR Reanalysis 1 Data Set





12UT

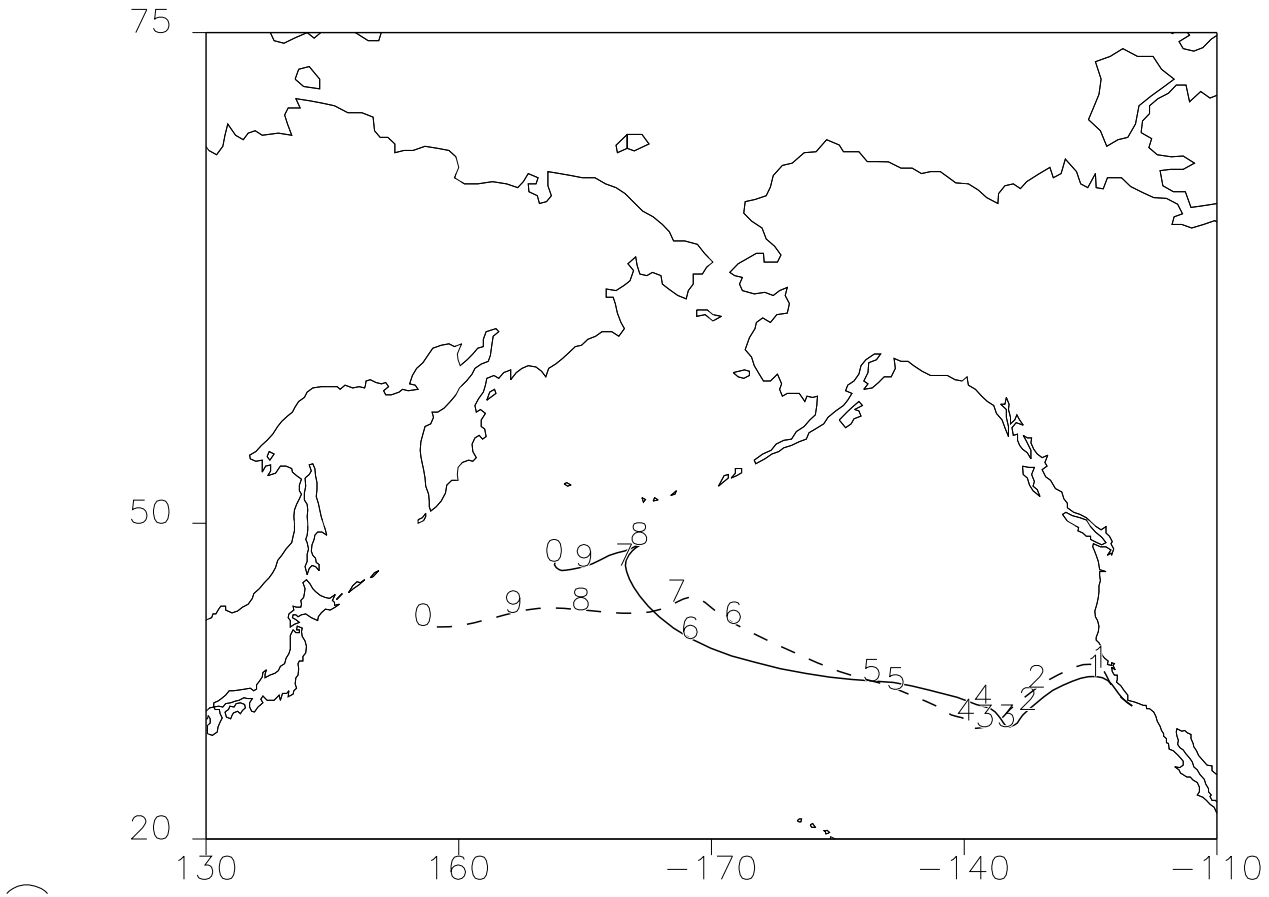
Day	km	hPa	C
0	0.3	982	13
1	0.2	1000	12
2	0.4	977	9
3	0.7	944	9
4	0.7	940	7
5	0.5	941	4
6	0.1	985	8
7	0.4	959	5
8	0.3	976	5
9	0.1	999	7
10	0.1	995	2

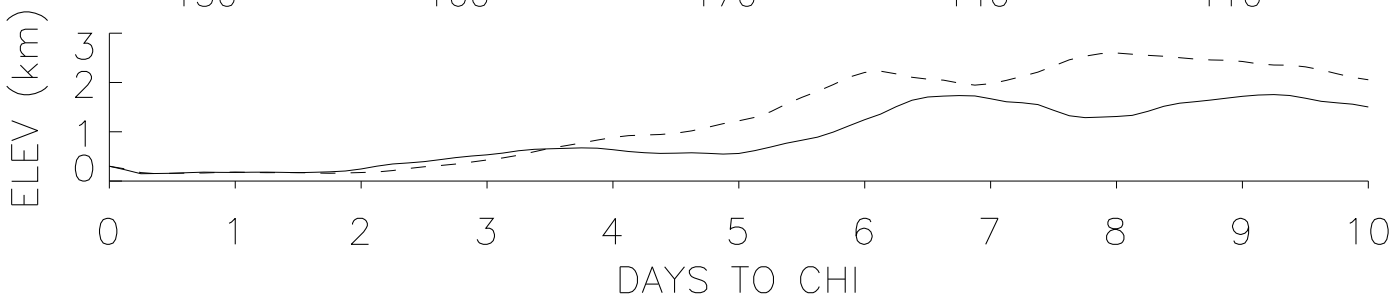
18UT

Day	km	hPa	C
0	0.3	982	14
1	0.2	1000	12
2	0.4	982	10
3	0.6	956	10
4	0.4	970	11
5	0.3	979	10
6	1.0	888	−2
7	1.8	793	−13
8	1.9	786	−13
9	1.8	798	−15
10	1.6	824	−15

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/24/2003 (Day of Year 83)
NCEP/NCAR Reanalysis 1 Data Set





00UT

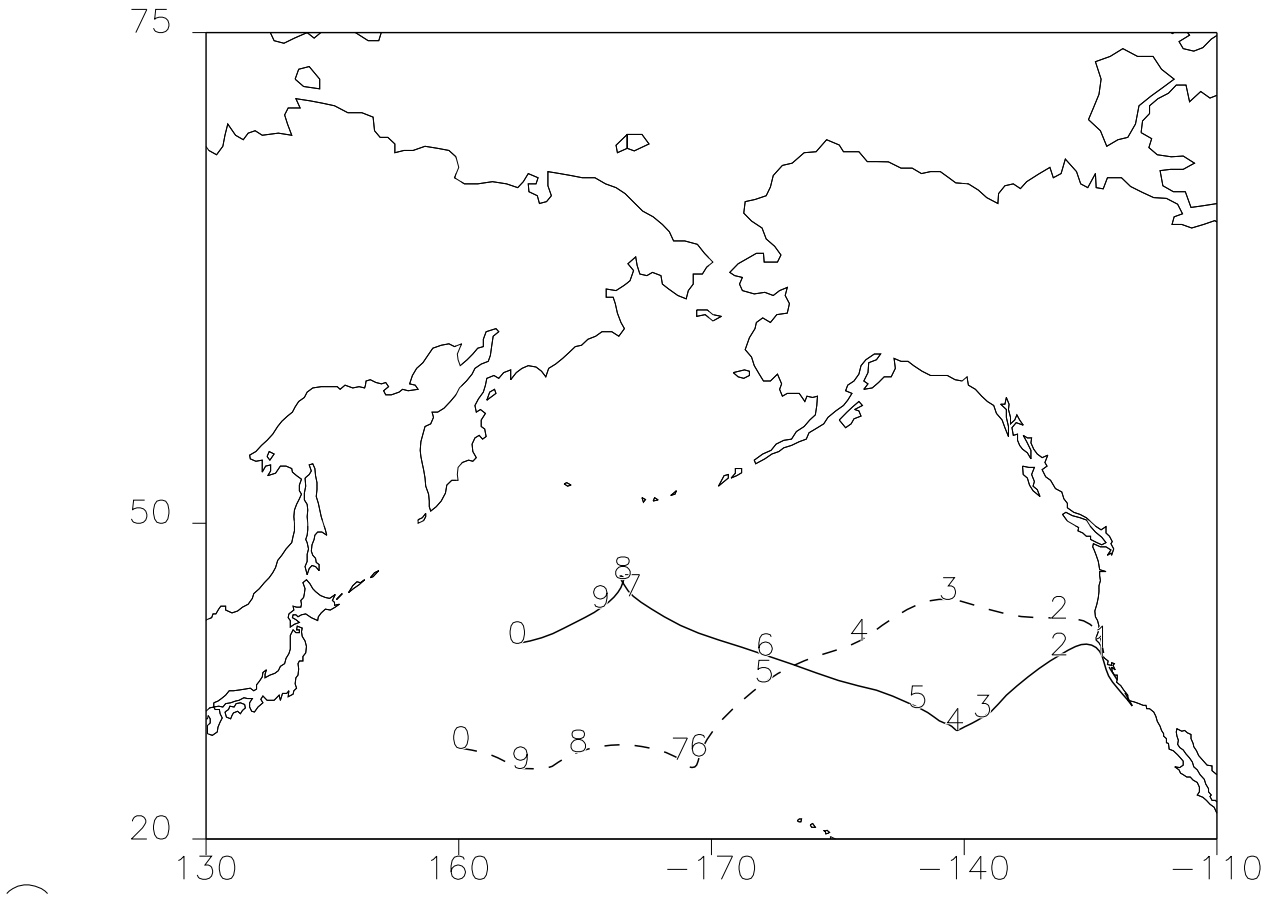
Day	km	hPa	C
0	0.3	980	14
1	0.2	1000	12
2	0.2	995	13
3	0.5	965	11
4	0.6	950	10
5	0.6	952	7
6	1.2	861	−4
7	1.7	809	−11
8	1.3	853	−8
9	1.7	812	−9
10	1.5	833	−10

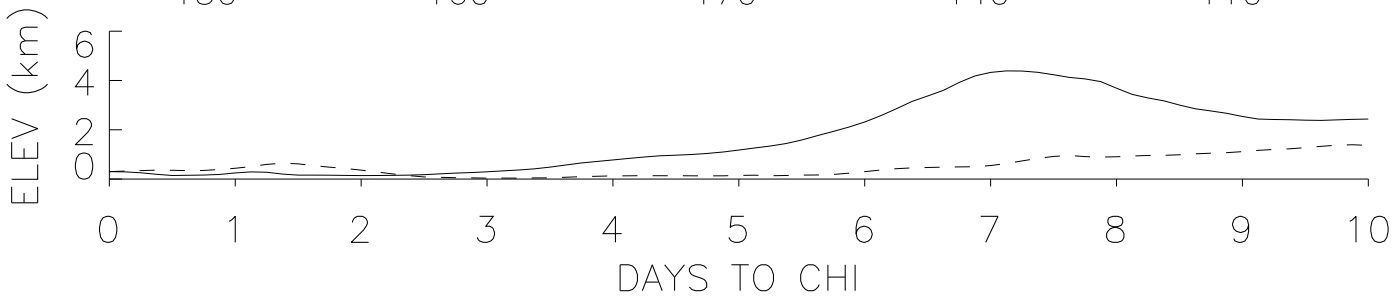
06UT

Day	km	hPa	C
0	0.3	980	12
1	0.2	1000	11
2	0.2	1000	13
3	0.4	978	12
4	0.9	925	9
5	1.2	881	6
6	2.2	759	−7
7	2.0	776	−11
8	2.6	720	−16
9	2.4	741	−16
10	2.1	779	−17

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/24/2003 (Day of Year 83)
NCEP/NCAR Reanalysis 1 Data Set





12UT

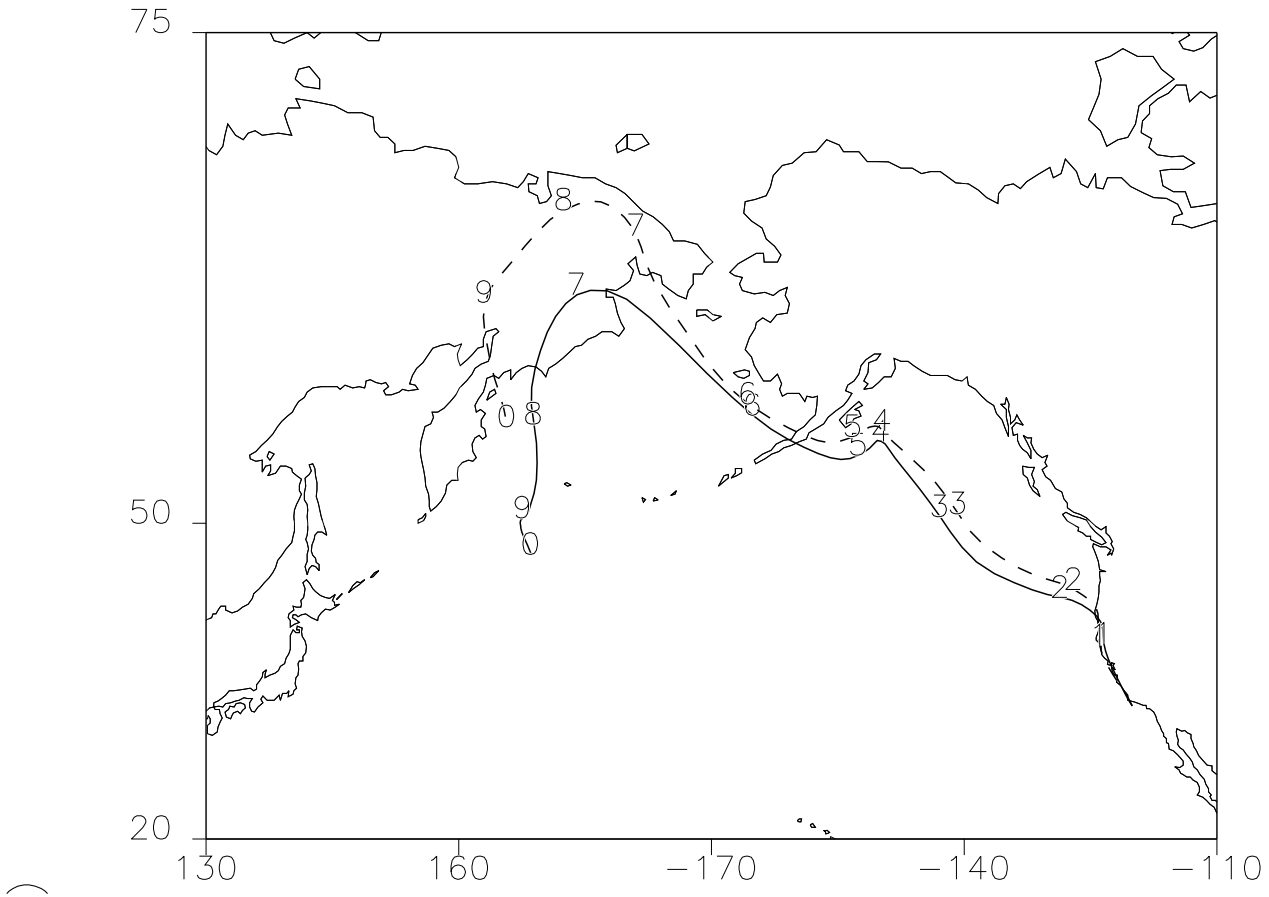
Day	km	hPa	C
0	0.3	980	12
1	0.2	990	10
2	0.1	1000	13
3	0.3	991	13
4	0.8	938	10
5	1.2	889	7
6	2.3	758	−4
7	4.3	569	−28
8	3.7	619	−23
9	2.5	731	−13
10	2.4	745	−14

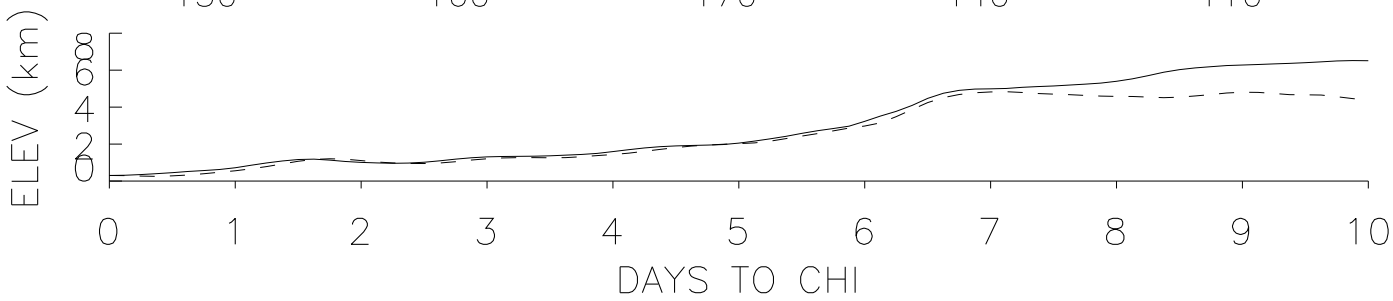
18UT

Day	km	hPa	C
0	0.3	982	13
1	0.4	969	8
2	0.4	973	7
3	0.0	1000	9
4	0.1	1000	10
5	0.1	998	14
6	0.3	986	16
7	0.5	954	13
8	0.9	910	9
9	1.1	894	6
10	1.4	867	1

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/25/2003 (Day of Year 84)
NCEP/NCAR Reanalysis 1 Data Set





00UT

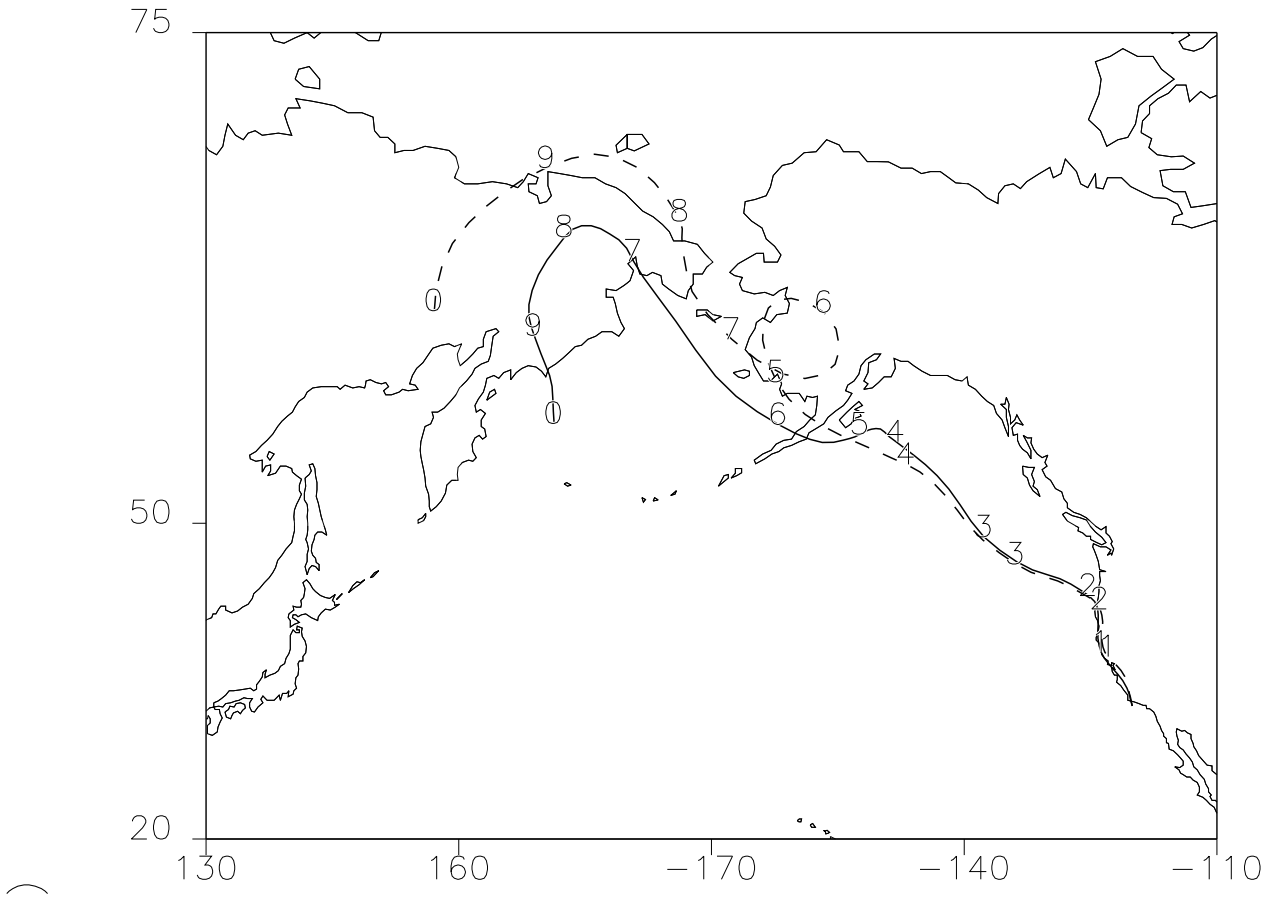
Day	km	hPa	C
0	0.3	982	14
1	0.7	934	6
2	1.0	898	−1
3	1.3	852	−6
4	1.6	816	−12
5	2.1	772	−11
6	3.2	660	−21
7	5.0	515	−36
8	5.4	484	−38
9	6.3	425	−46
10	6.5	415	−46

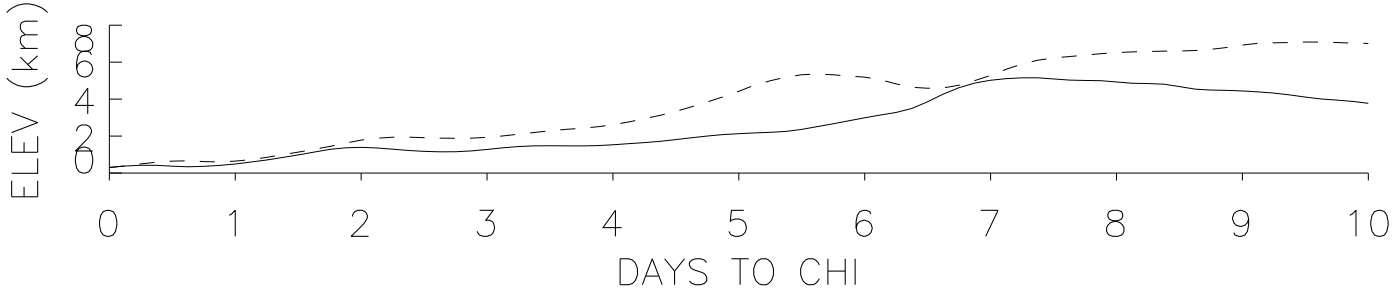
06UT

Day	km	hPa	C
0	0.3	984	12
1	0.6	953	5
2	1.1	889	−3
3	1.2	862	−6
4	1.4	832	−14
5	2.0	772	−13
6	3.0	683	−19
7	4.8	525	−34
8	4.6	545	−32
9	4.8	529	−31
10	4.4	566	−26

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/25/2003 (Day of Year 84)
NCEP/NCAR Reanalysis 1 Data Set





12UT

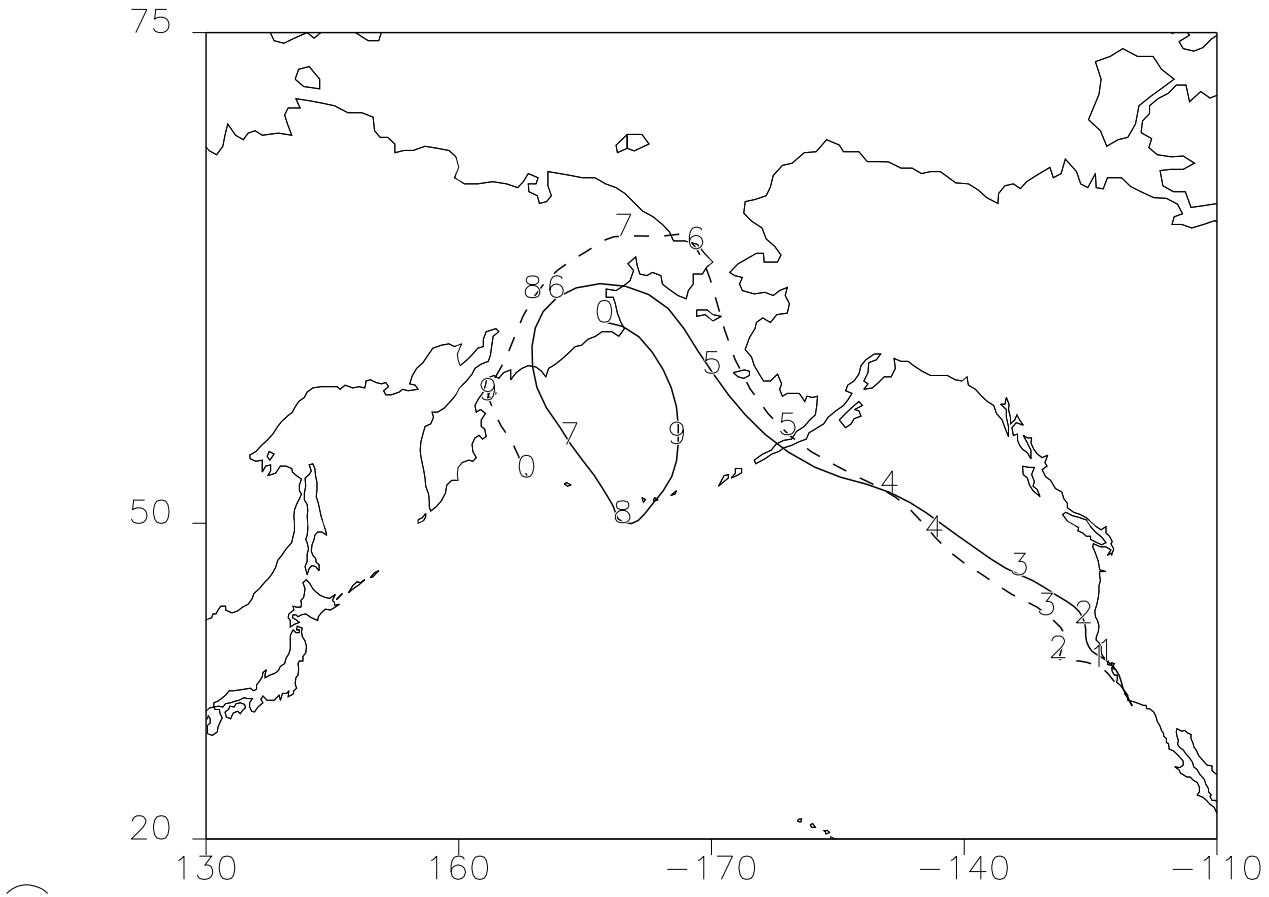
Day	km	hPa	C
0	0.3	985	12
1	0.5	961	6
2	1.4	860	−5
3	1.3	855	−6
4	1.5	822	−11
5	2.1	760	−14
6	3.0	682	−18
7	5.0	511	−36
8	4.9	518	−35
9	4.4	558	−27
10	3.8	615	−21

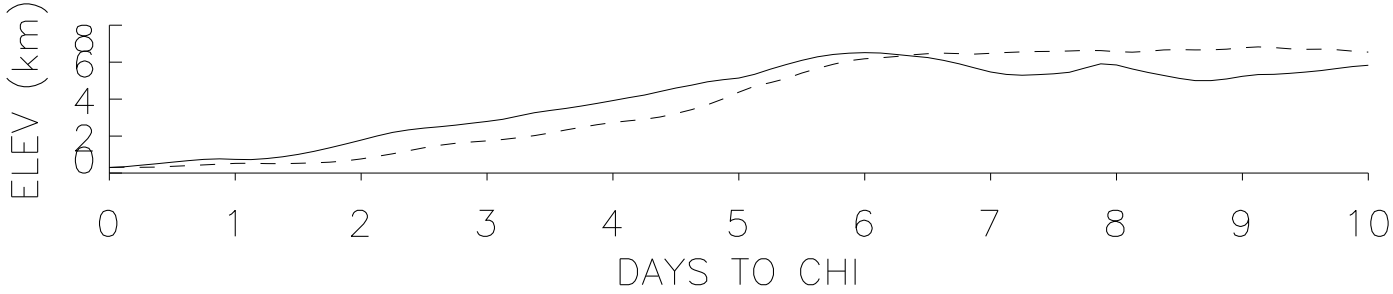
18UT

Day	km	hPa	C
0	0.3	987	17
1	0.6	945	7
2	1.8	820	−5
3	1.9	792	−9
4	2.6	715	−17
5	4.4	555	−33
6	5.2	497	−40
7	5.3	488	−36
8	6.5	408	−44
9	6.9	386	−47
10	7.0	382	−47

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/26/2003 (Day of Year 85)
NCEP/NCAR Reanalysis 1 Data Set





00UT

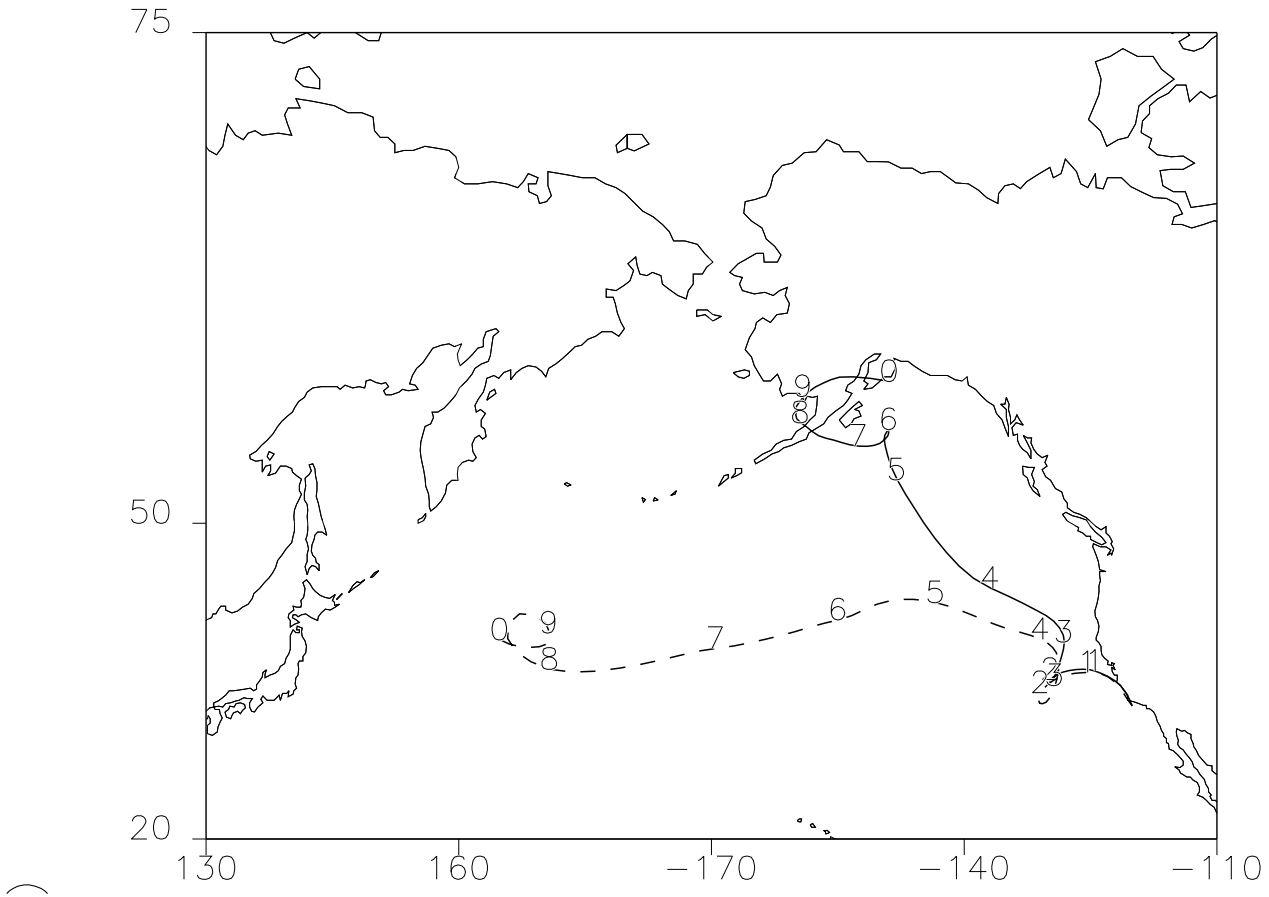
Day	km	hPa	C
0	0.3	985	20
1	0.7	934	10
2	1.8	820	−3
3	2.8	713	−12
4	3.9	605	−25
5	5.1	508	−36
6	6.5	415	−47
7	5.5	481	−37
8	5.8	459	−38
9	5.2	500	−30
10	5.8	461	−35

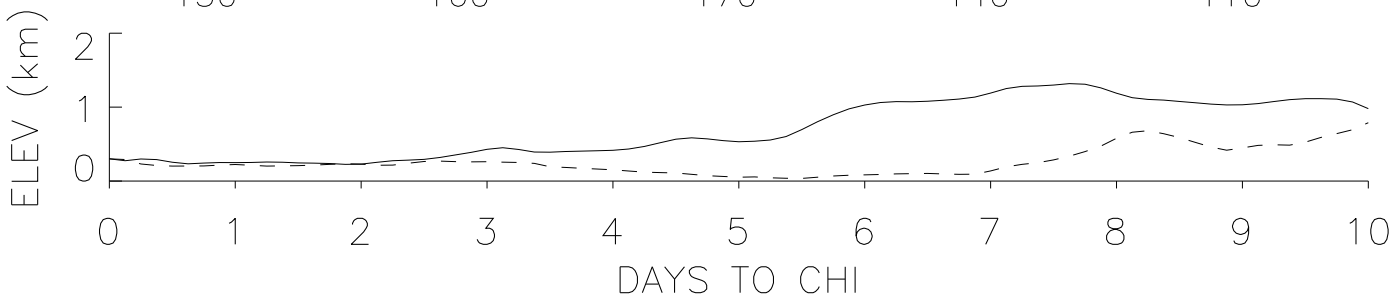
06UT

Day	km	hPa	C
0	0.3	986	16
1	0.5	963	10
2	0.8	933	3
3	1.7	824	−5
4	2.7	712	−14
5	4.4	564	−30
6	6.2	434	−46
7	6.5	414	−48
8	6.6	406	−49
9	6.8	393	−49
10	6.5	408	−47

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/26/2003 (Day of Year 85)
NCEP/NCAR Reanalysis 1 Data Set





12UT

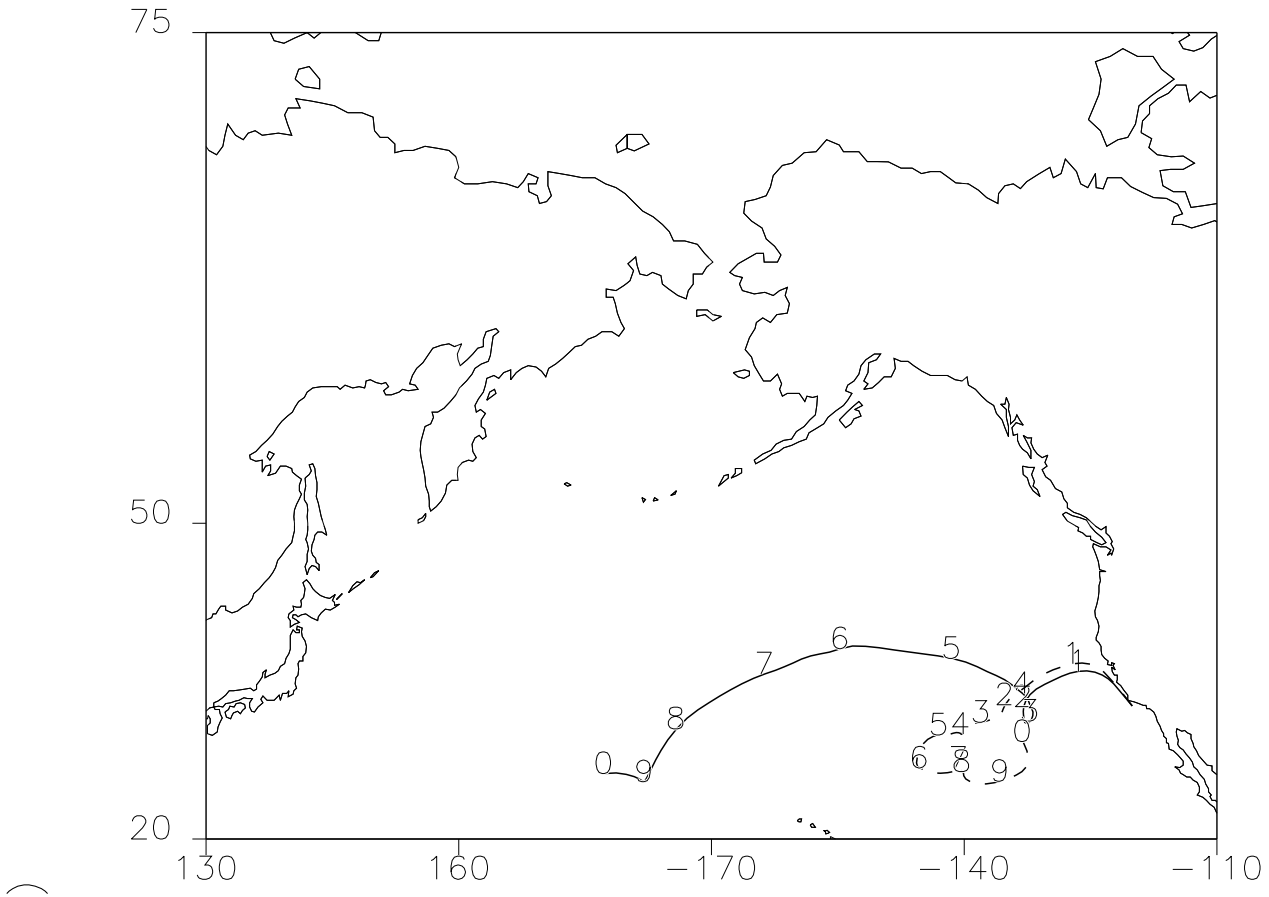
Day	km	hPa	C
0	0.3	985	15
1	0.2	995	11
2	0.2	995	11
3	0.4	972	6
4	0.4	961	2
5	0.5	936	−2
6	1.0	878	−8
7	1.2	864	−8
8	1.2	859	−12
9	1.0	870	−9
10	1.0	866	−3

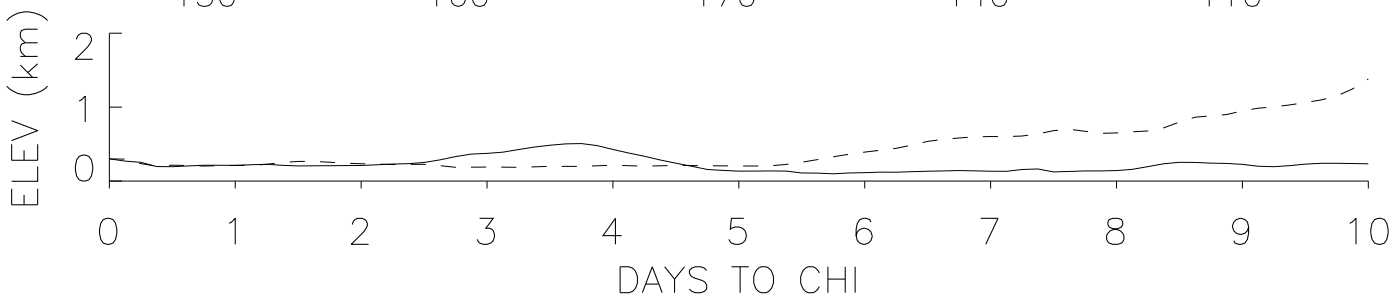
18UT

Day	km	hPa	C
0	0.3	986	17
1	0.2	1000	13
2	0.2	997	13
3	0.3	993	10
4	0.2	1000	10
5	0.1	999	8
6	0.1	1000	8
7	0.1	993	9
8	0.6	931	4
9	0.4	953	1
10	0.8	917	−6

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/27/2003 (Day of Year 86)
NCEP/NCAR Reanalysis 1 Data Set





00UT

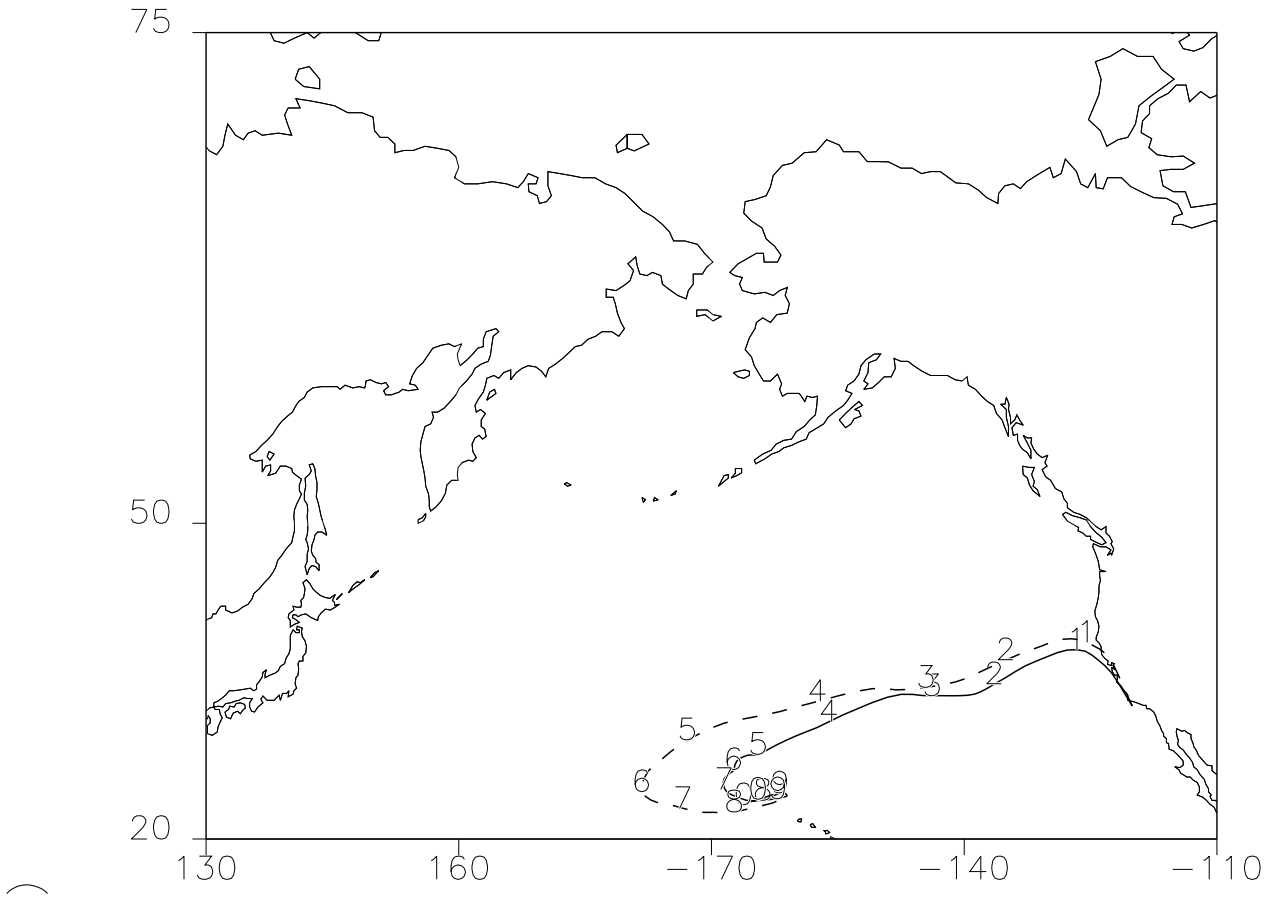
Day	km	hPa	C
0	0.3	983	17
1	0.2	1000	14
2	0.2	999	15
3	0.4	978	13
4	0.4	972	12
5	0.1	1000	11
6	0.1	1000	10
7	0.1	1000	12
8	0.1	1000	18
9	0.2	994	19
10	0.2	987	18

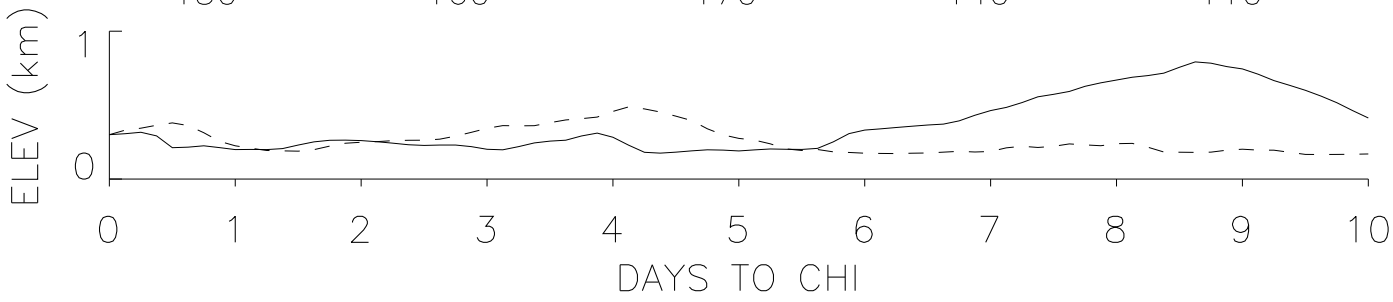
06UT

Day	km	hPa	C
0	0.3	982	16
1	0.2	1000	13
2	0.2	997	15
3	0.2	1000	16
4	0.2	1000	16
5	0.2	1000	16
6	0.4	981	16
7	0.6	957	15
8	0.7	951	14
9	0.9	919	10
10	1.4	867	7

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/27/2003 (Day of Year 86)
NCEP/NCAR Reanalysis 1 Data Set





12UT

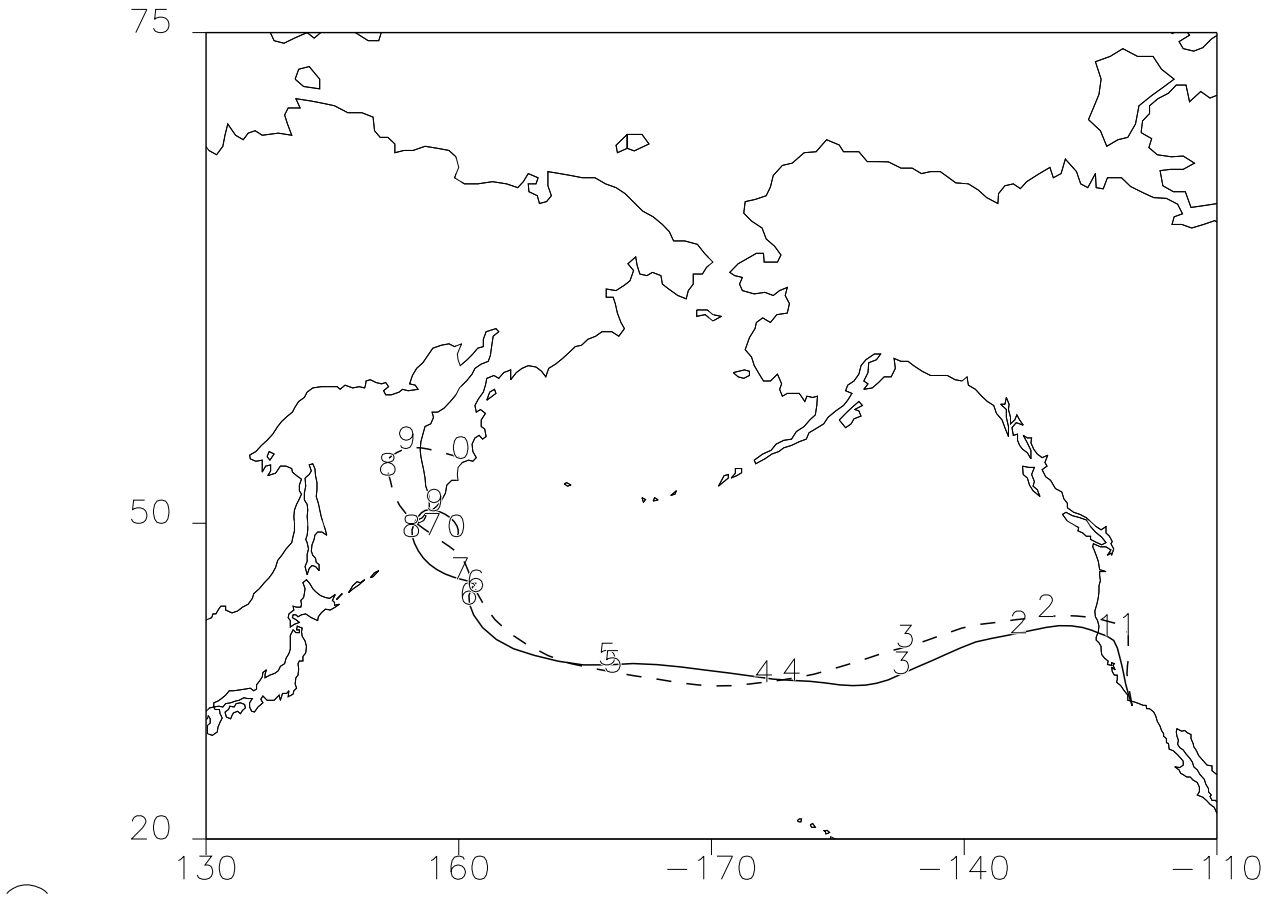
Day	km	hPa	C
0	0.3	980	13
1	0.2	1000	12
2	0.3	993	14
3	0.2	996	15
4	0.3	987	18
5	0.2	1000	21
6	0.3	984	21
7	0.5	970	21
8	0.7	945	19
9	0.7	938	18
10	0.4	970	21

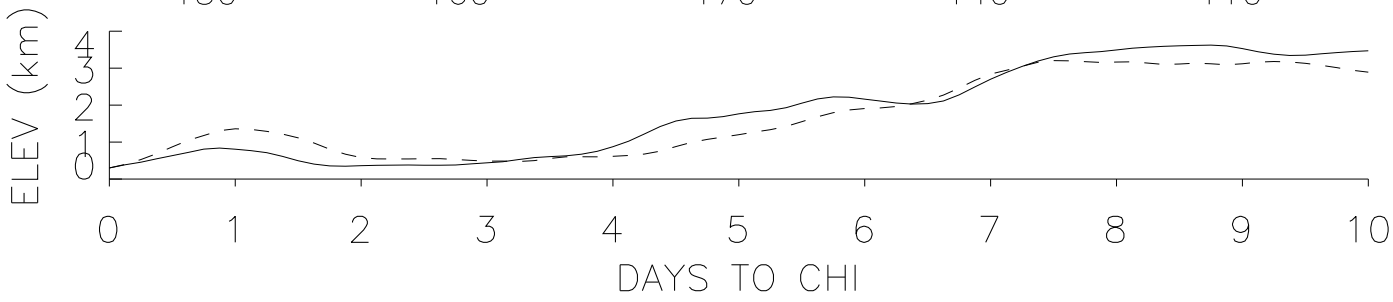
18UT

Day	km	hPa	C
0	0.3	982	14
1	0.2	1000	9
2	0.2	992	13
3	0.3	980	12
4	0.5	963	14
5	0.3	987	19
6	0.2	1000	23
7	0.2	999	23
8	0.2	994	22
9	0.2	998	21
10	0.2	1000	21

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/28/2003 (Day of Year 87)
NCEP/NCAR Reanalysis 1 Data Set





00UT

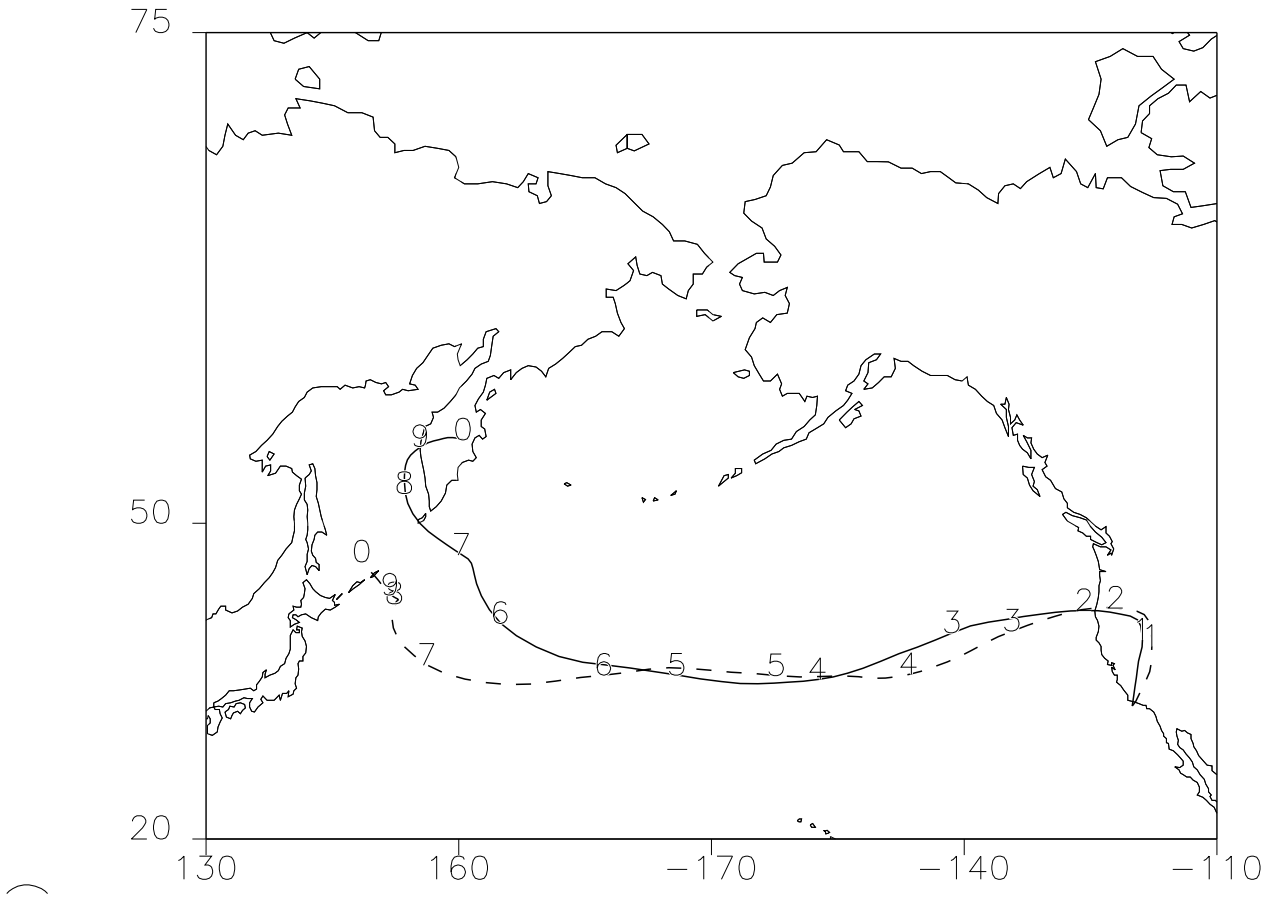
Day	km	hPa	C
0	0.3	979	16
1	0.8	929	6
2	0.4	976	10
3	0.4	966	9
4	0.9	914	5
5	1.8	811	−6
6	2.2	762	−15
7	2.7	711	−22
8	3.5	634	−31
9	3.5	628	−32
10	3.5	633	−29

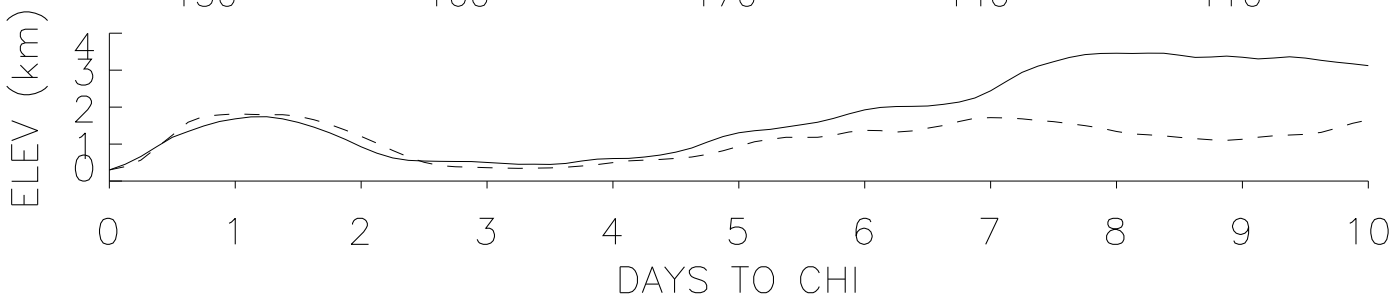
06UT

Day	km	hPa	C
0	0.3	980	15
1	1.4	867	1
2	0.6	950	6
3	0.5	955	7
4	0.6	946	6
5	1.2	875	−2
6	1.9	789	−14
7	2.8	696	−24
8	3.2	666	−26
9	3.1	668	−26
10	2.9	689	−23

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/28/2003 (Day of Year 87)
NCEP/NCAR Reanalysis 1 Data Set





12UT

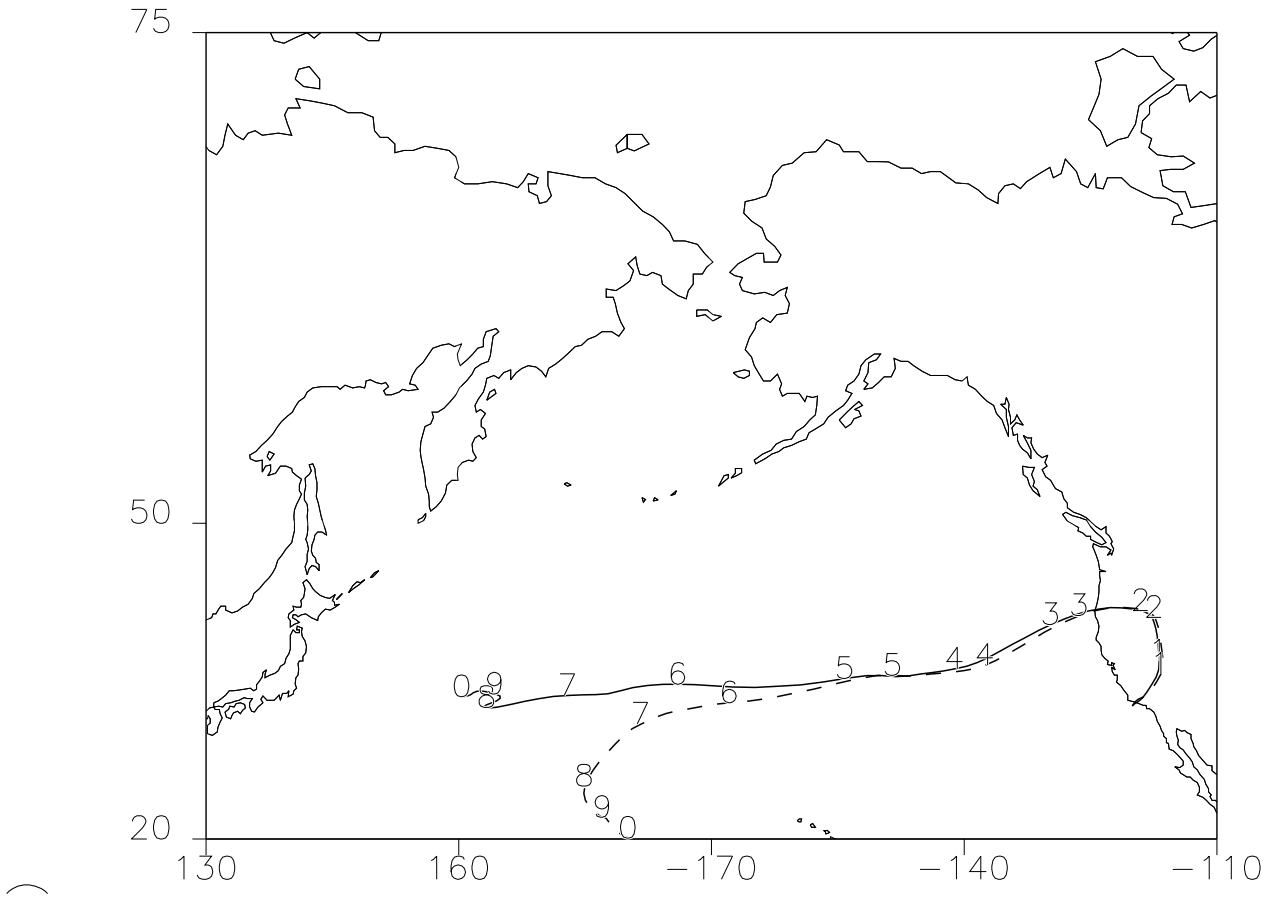
Day	km	hPa	C
0	0.3	981	15
1	1.7	832	−2
2	0.9	911	3
3	0.5	954	7
4	0.6	947	6
5	1.3	864	−1
6	1.9	789	−13
7	2.4	735	−21
8	3.5	639	−28
9	3.3	649	−27
10	3.1	668	−25

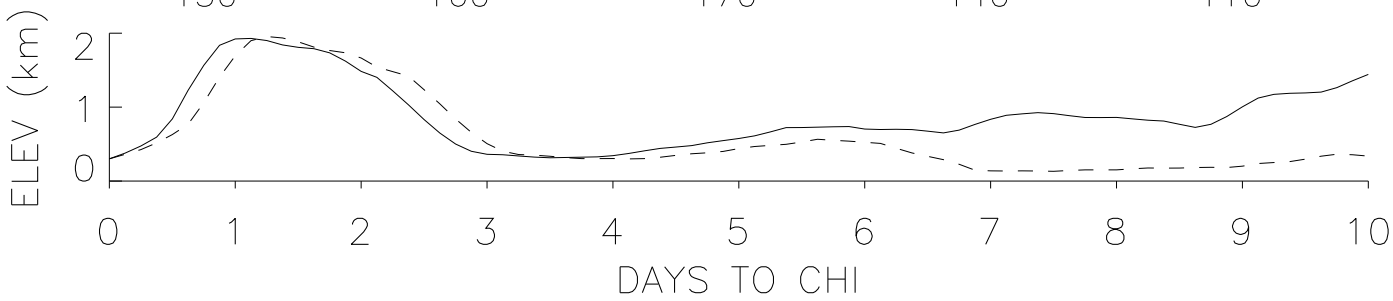
18UT

Day	km	hPa	C
0	0.3	985	16
1	1.8	819	−1
2	1.2	881	1
3	0.4	974	10
4	0.5	960	8
5	0.9	904	6
6	1.4	855	−2
7	1.7	814	−11
8	1.3	853	−12
9	1.1	875	−12
10	1.7	814	−18

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/29/2003 (Day of Year 88)
NCEP/NCAR Reanalysis 1 Data Set





00UT

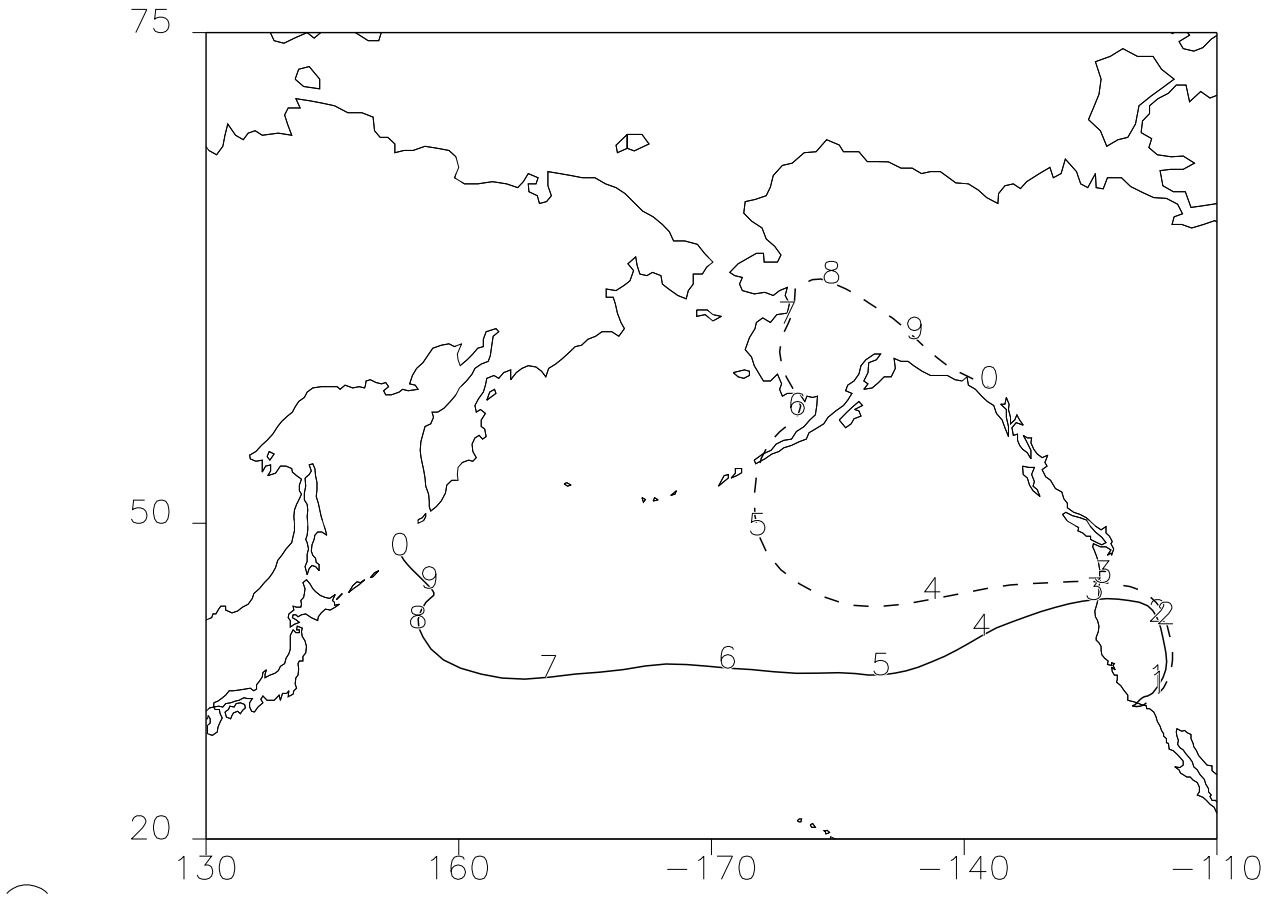
Day	km	hPa	C
0	0.3	984	18
1	1.9	807	3
2	1.5	852	1
3	0.4	975	10
4	0.3	978	11
5	0.6	948	10
6	0.7	930	10
7	0.8	916	7
8	0.9	912	8
9	1.0	895	2
10	1.4	847	−4

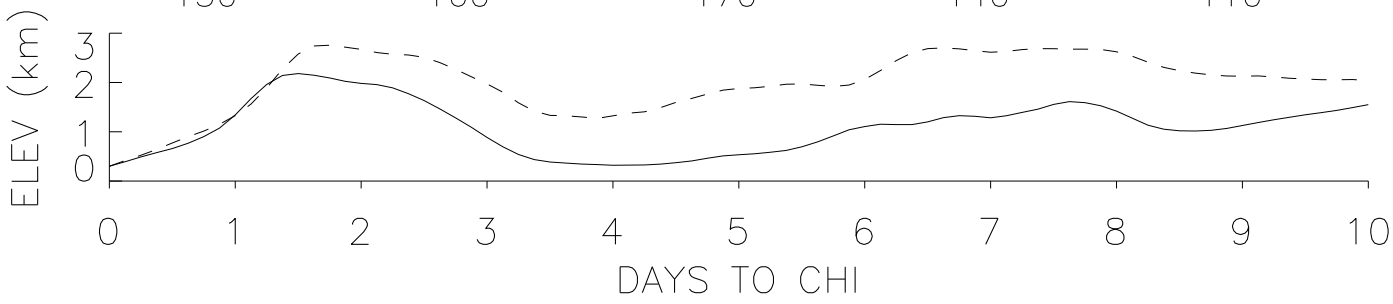
06UT

Day	km	hPa	C
0	0.3	988	14
1	1.7	831	3
2	1.7	834	−2
3	0.5	959	8
4	0.3	984	12
5	0.4	965	10
6	0.5	952	14
7	0.1	1000	18
8	0.2	1000	23
9	0.2	994	23
10	0.3	978	23

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/29/2003 (Day of Year 88)
NCEP/NCAR Reanalysis 1 Data Set





12UT

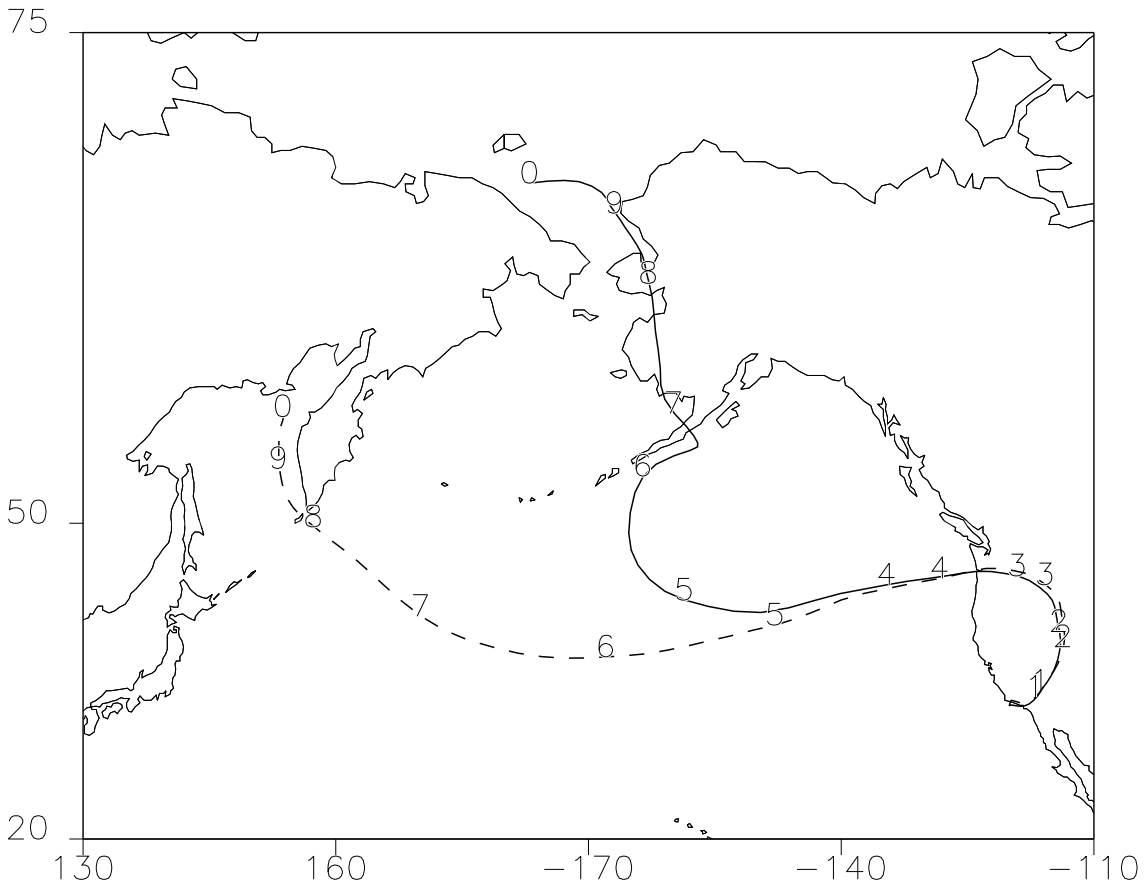
Day	km	hPa	C
0	0.3	988	15
1	1.3	867	5
2	2.0	801	−6
3	0.9	914	3
4	0.3	977	10
5	0.5	954	8
6	1.1	882	3
7	1.3	864	−2
8	1.4	844	−12
9	1.1	878	−11
10	1.6	826	−16

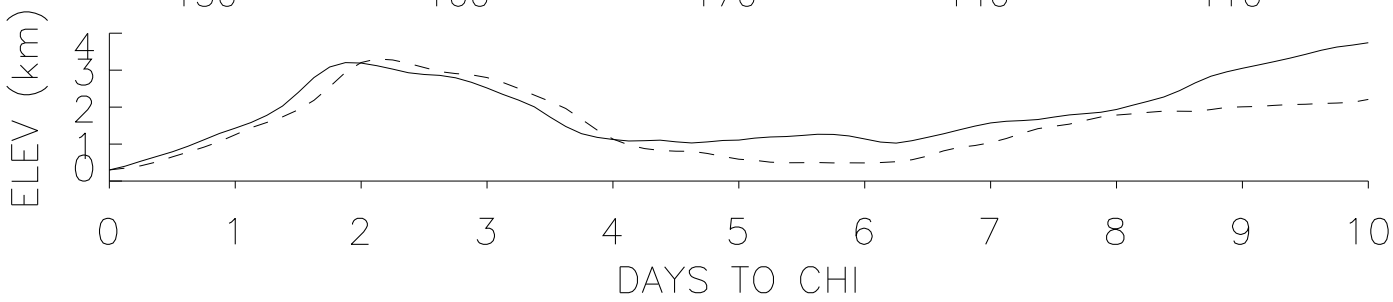
18UT

Day	km	hPa	C
0	0.3	991	16
1	1.3	872	6
2	2.7	734	−11
3	2.0	798	−8
4	1.3	857	−4
5	1.9	788	−12
6	2.1	768	−16
7	2.6	713	−19
8	2.6	712	−19
9	2.1	762	−13
10	2.0	780	−10

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/30/2003 (Day of Year 89)
NCEP/NCAR Reanalysis 1 Data Set





00UT

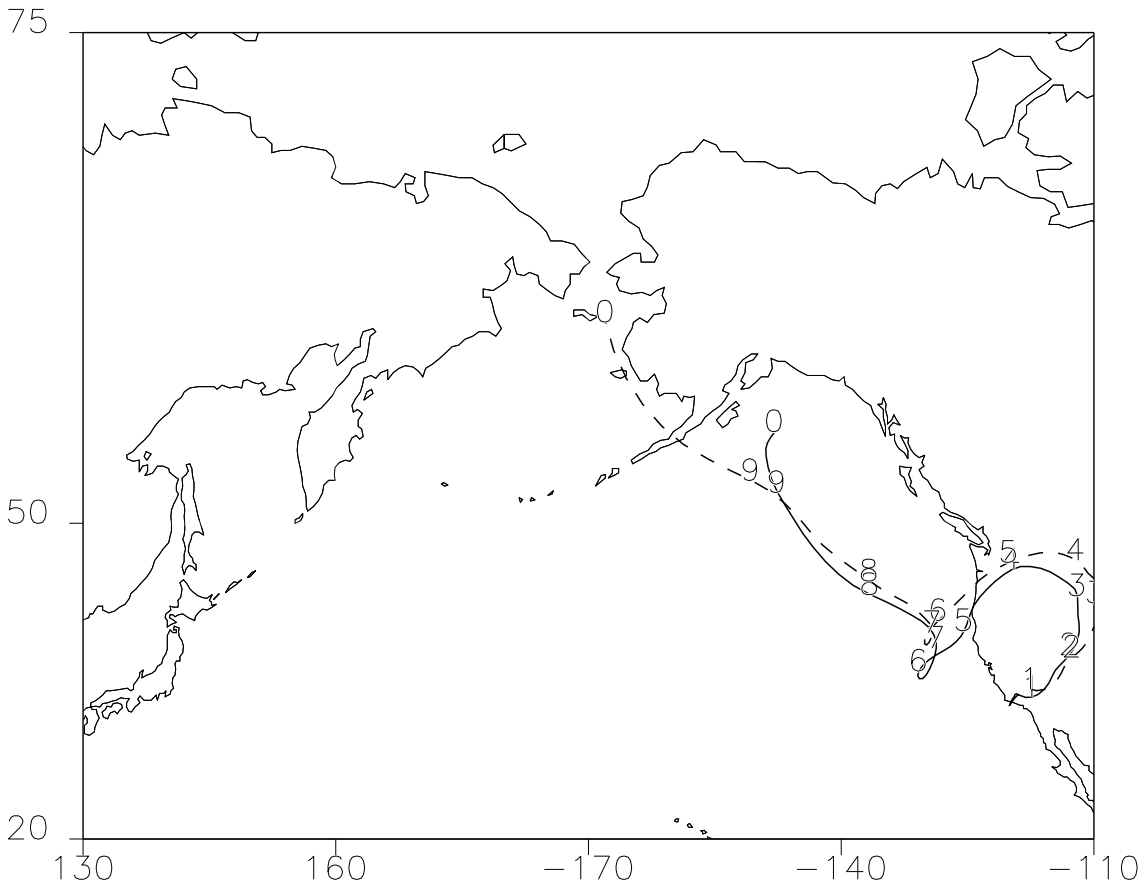
Day	km	hPa	C
0	0.3	989	19
1	1.4	861	10
2	3.2	685	−13
3	2.5	745	−10
4	1.1	880	0
5	1.1	872	−5
6	1.1	861	−7
7	1.6	821	−16
8	1.9	781	−17
9	3.1	675	−24
10	3.7	615	−29

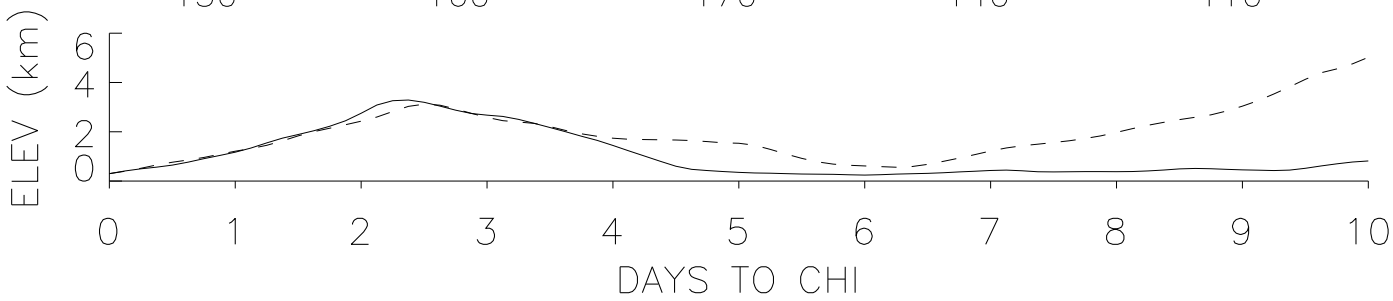
06UT

Day	km	hPa	C
0	0.3	990	17
1	1.3	882	8
2	3.2	686	−13
3	2.8	719	−12
4	1.1	880	0
5	0.6	937	4
6	0.5	956	5
7	1.0	888	−7
8	1.8	801	−18
9	2.0	778	−19
10	2.2	757	−19

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/30/2003 (Day of Year 89)
NCEP/NCAR Reanalysis 1 Data Set





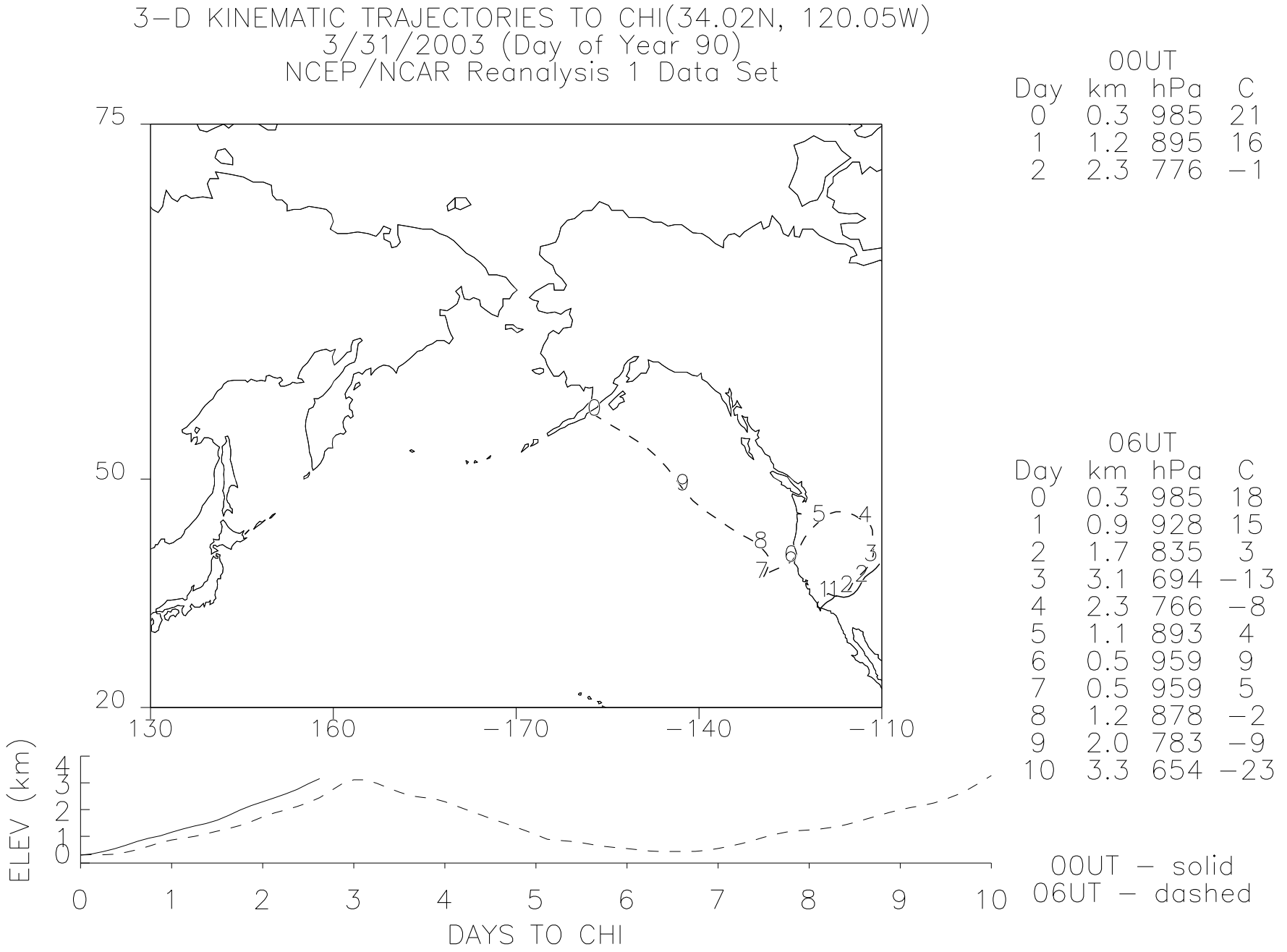
12UT

Day	km	hPa	C
0	0.3	989	17
1	1.2	892	8
2	2.8	727	−11
3	2.7	730	−11
4	1.4	850	−1
5	0.4	980	9
6	0.2	992	11
7	0.4	972	6
8	0.4	966	3
9	0.5	946	−1
10	0.8	903	−6

18UT

Day	km	hPa	C
0	0.3	990	19
1	1.2	891	9
2	2.4	761	−6
3	2.6	739	−10
4	1.7	817	−2
5	1.5	845	−1
6	0.6	946	6
7	1.2	883	−2
8	2.0	792	−9
9	3.0	679	−20
10	5.0	513	−37

12UT − solid
18UT − dashed



00UT

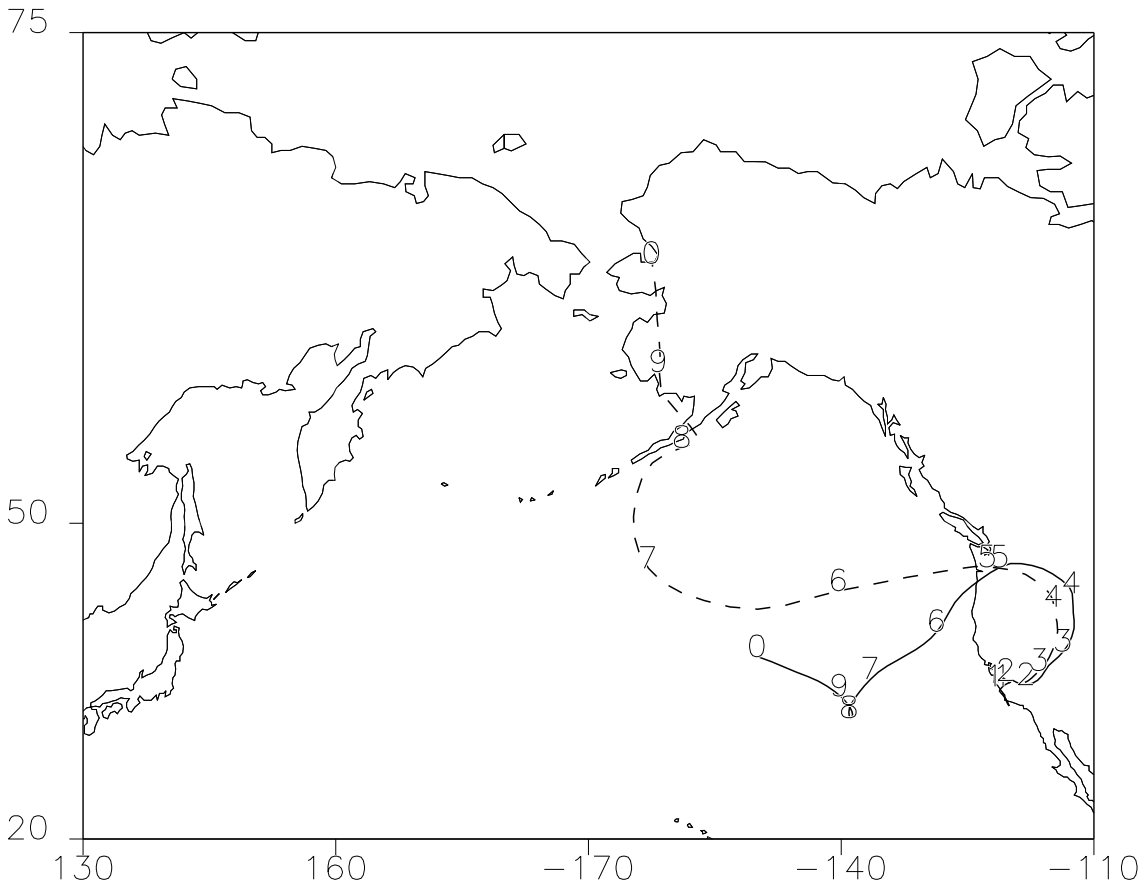
Day	km	hPa	C
0	0.3	985	21
1	1.2	895	16
2	2.3	776	-1

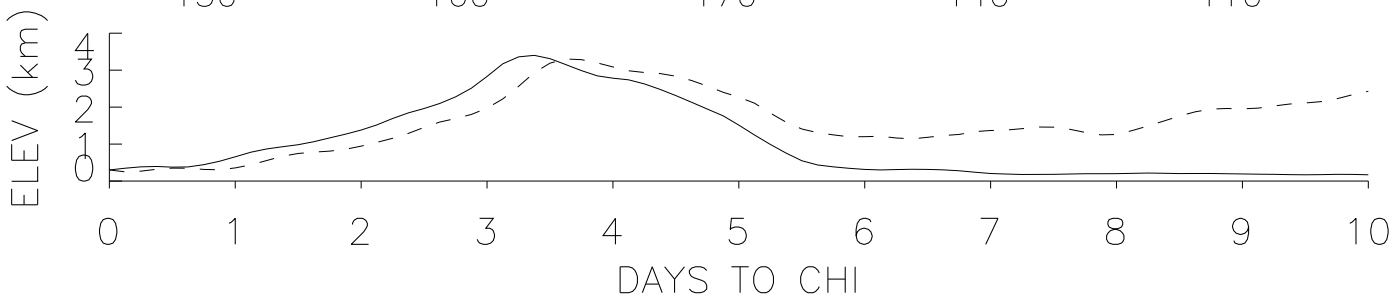
06UT

Day	km	hPa	C
0	0.3	985	18
1	0.9	928	15
2	1.7	835	3
3	3.1	694	-13
4	2.3	766	-8
5	1.1	893	4
6	0.5	959	9
7	0.5	959	5
8	1.2	878	-2
9	2.0	783	-9
10	3.3	654	-23

00UT - solid
06UT - dashed

3-D KINEMATIC TRAJECTORIES TO CHI(34.02N, 120.05W)
3/31/2003 (Day of Year 90)
NCEP/NCAR Reanalysis 1 Data Set





12UT

Day	km	hPa	C
0	0.3	982	17
1	0.7	949	14
2	1.4	870	6
3	2.8	720	−12
4	2.8	720	−12
5	1.5	842	−2
6	0.3	983	10
7	0.2	994	15
8	0.2	1000	15
9	0.2	1000	12
10	0.2	995	9

18UT

Day	km	hPa	C
0	0.3	981	19
1	0.4	984	18
2	0.9	919	13
3	2.0	806	1
4	3.1	694	−14
5	2.3	766	−10
6	1.2	870	−2
7	1.4	842	−8
8	1.3	850	−9
9	2.0	779	−19
10	2.4	732	−20

12UT − solid
18UT − dashed