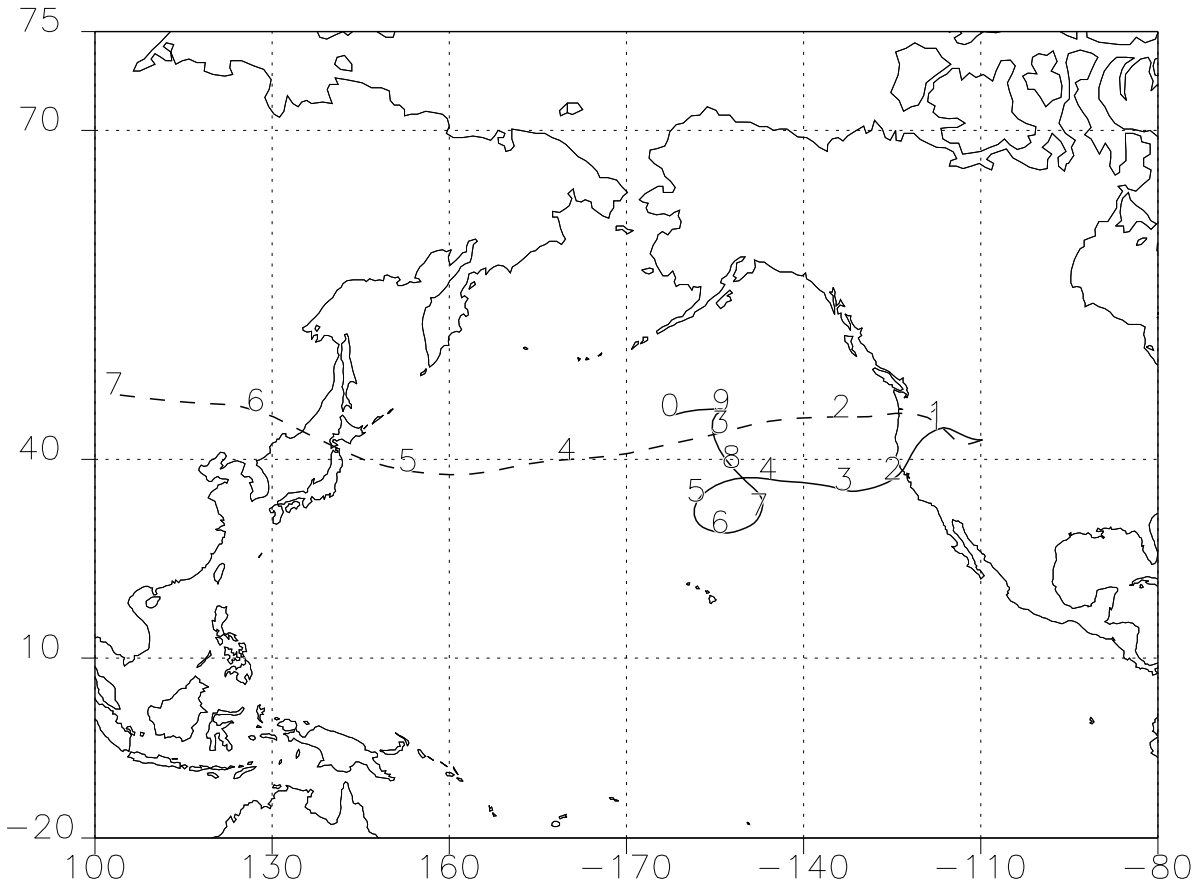
3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/1/2006 (Day of Year 32)
NCEP/NCAR Reanalysis 1 Data Set

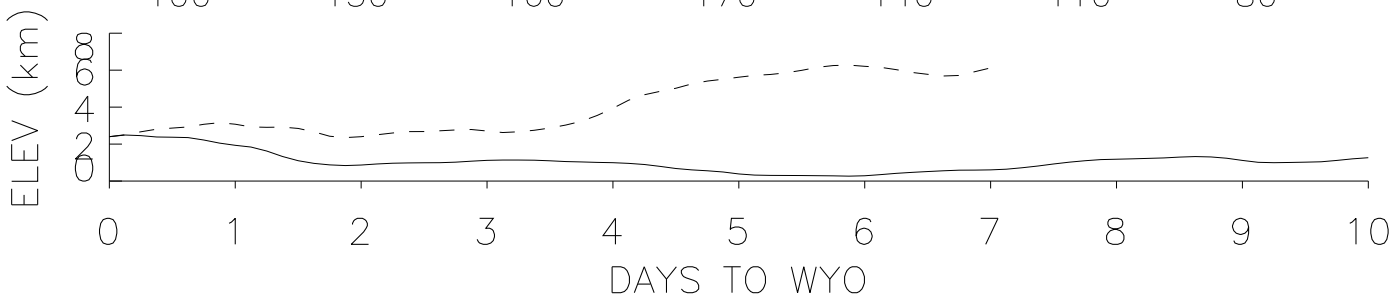


00UT

Day	km	hPa	C
0	2.4	756	−5
1	1.9	798	−1
2	0.9	923	11
3	1.1	897	9
4	1.0	910	10
5	0.4	977	16
6	0.3	991	16
7	0.6	953	10
8	1.2	882	1
9	1.1	887	−2
10	1.3	863	−4

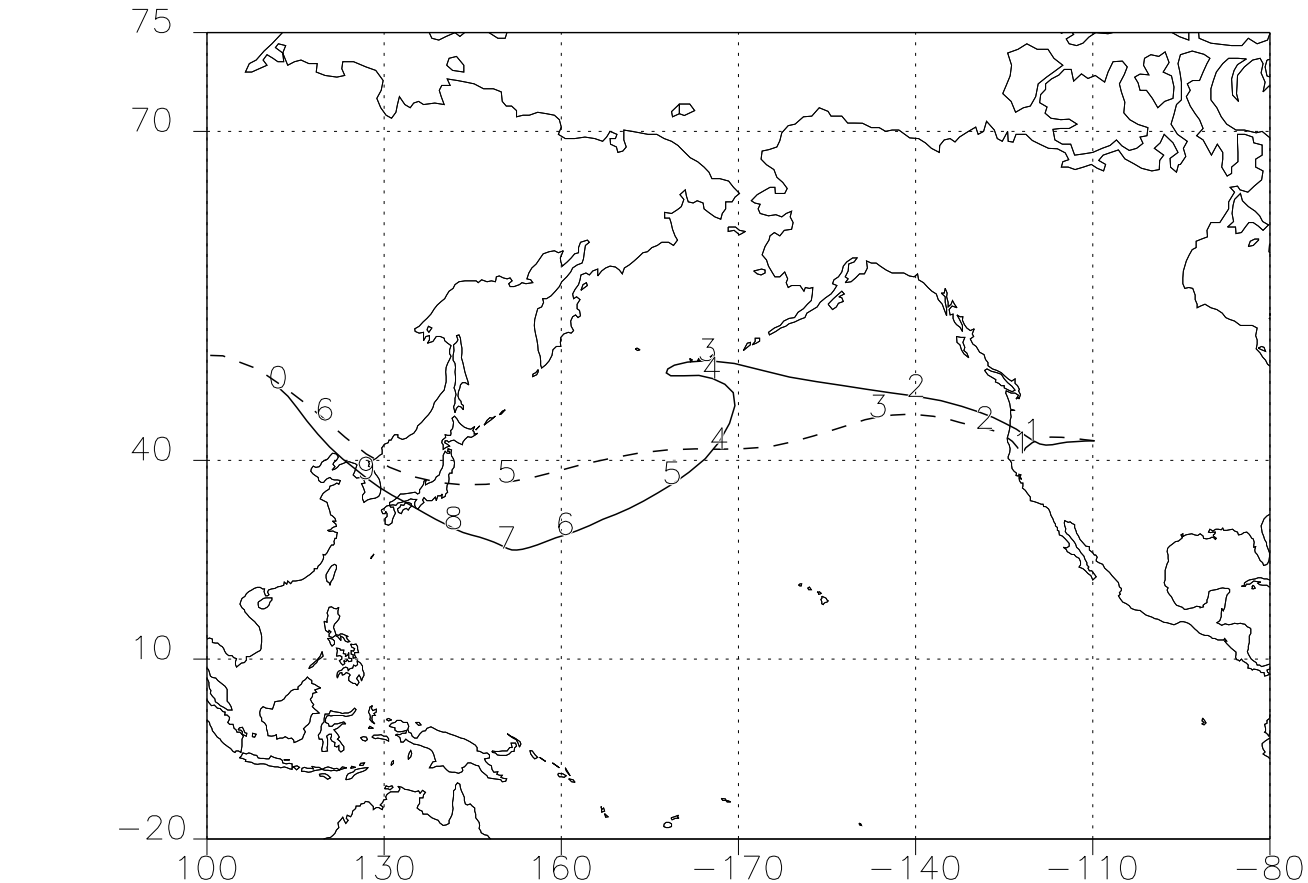
06UT

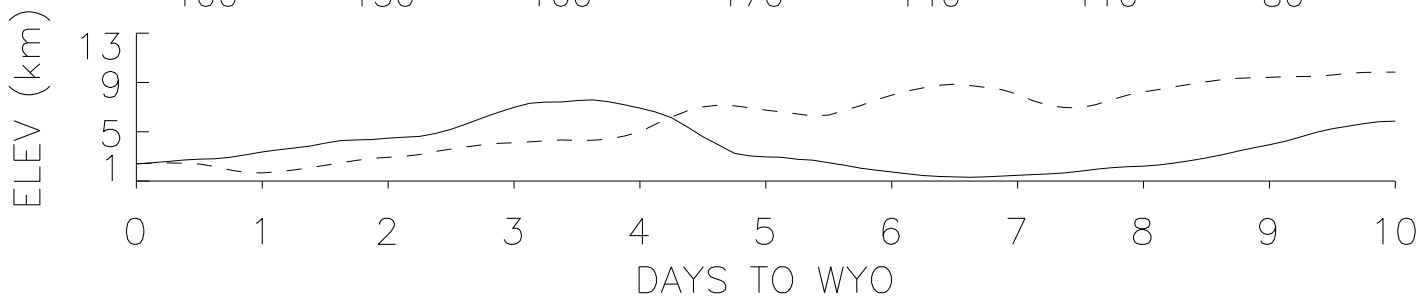
Day	km	hPa	C
0	2.4	755	−6
1	3.1	691	−11
2	2.4	739	−9
3	2.7	715	−10
4	3.9	606	−21
5	5.6	472	−36
6	6.2	437	−41
7	6.1	451	−36



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/1/2006 (Day of Year 32)
NCEP/NCAR Reanalysis 1 Data Set





12UT

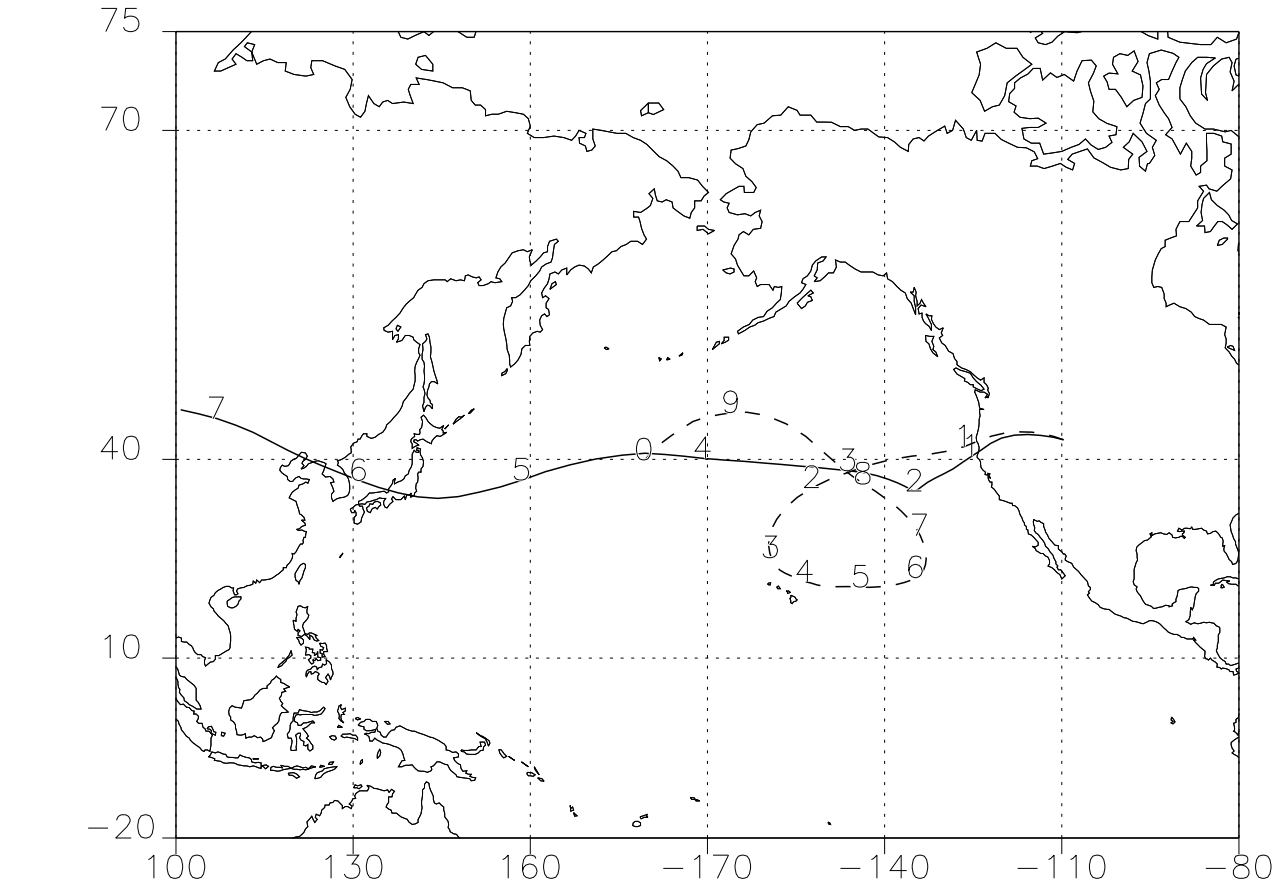
Day	km	hPa	C
0	2.4	752	−3
1	3.4	670	−10
2	4.5	563	−19
3	7.0	392	−39
4	6.9	394	−41
5	3.0	693	−2
6	1.7	815	2
7	1.5	852	2
8	2.2	778	−5
9	3.9	615	−22
10	5.9	468	−38

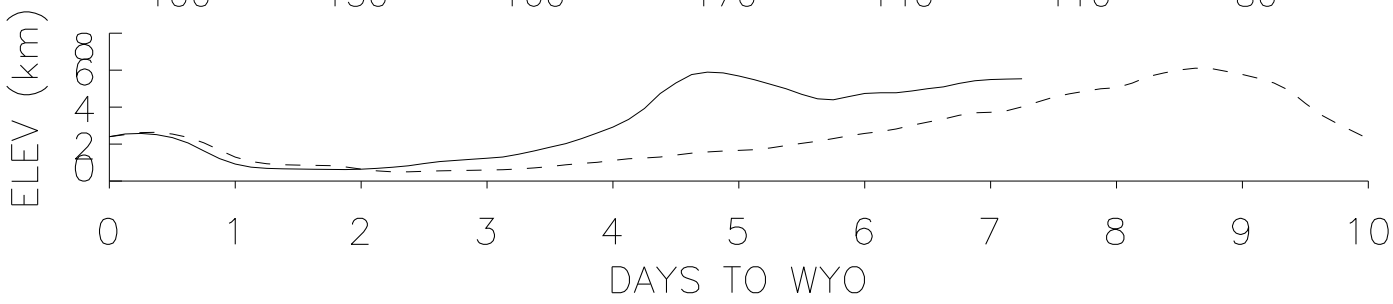
18UT

Day	km	hPa	C
0	2.4	752	−2
1	1.7	833	−2
2	2.9	701	−10
3	4.1	589	−23
4	5.0	527	−28
5	6.8	403	−43
6	8.0	340	−49
7	8.0	333	−51
8	8.2	326	−52
9	9.4	268	−62
10	9.8	253	−65

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/2/2006 (Day of Year 33)
NCEP/NCAR Reanalysis 1 Data Set





00UT

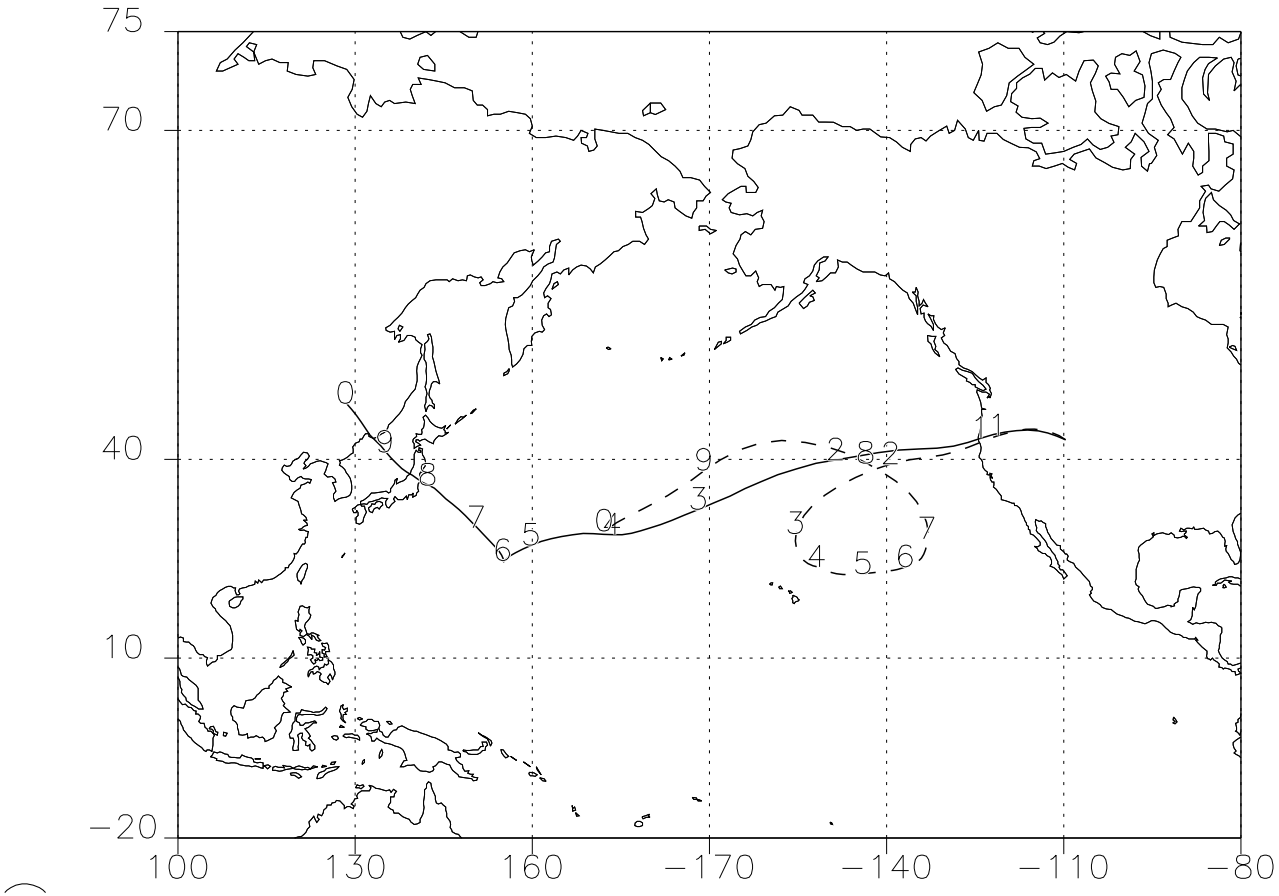
Day	km	hPa	C
0	2.4	752	−3
1	0.9	910	7
2	0.6	950	11
3	1.2	873	5
4	2.9	701	−10
5	5.7	475	−34
6	4.7	550	−24
7	5.5	498	−31

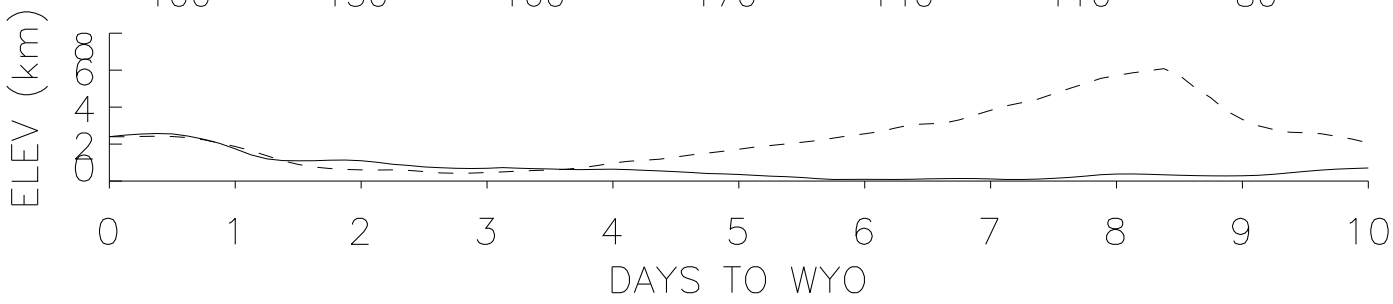
06UT

Day	km	hPa	C
0	2.4	753	−6
1	1.3	867	6
2	0.6	937	13
3	0.6	951	16
4	1.1	895	14
5	1.7	841	13
6	2.6	753	8
7	3.7	652	−2
8	5.1	542	−15
9	5.8	489	−21
10	2.3	769	1

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/2/2006 (Day of Year 33)
NCEP/NCAR Reanalysis 1 Data Set





12UT

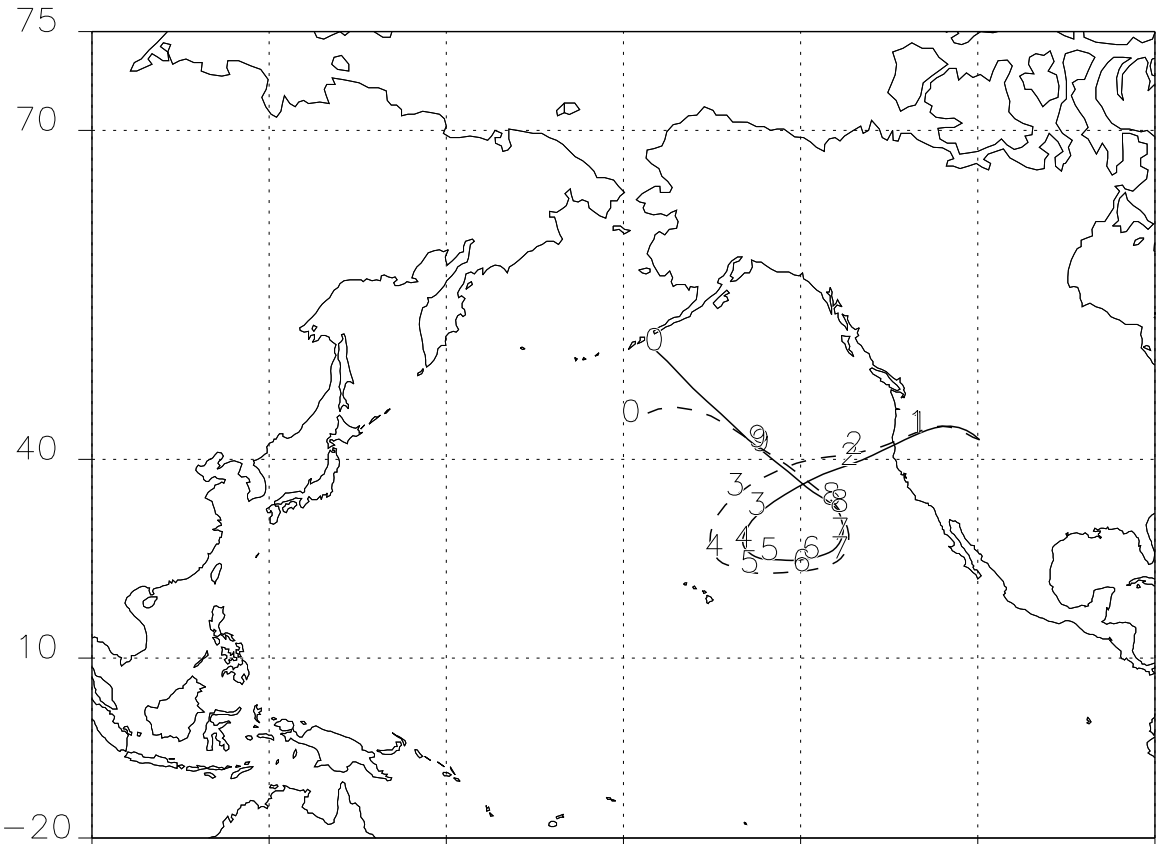
Day	km	hPa	C
0	2.4	753	−6
1	1.7	819	2
2	1.1	880	8
3	0.7	925	11
4	0.6	935	13
5	0.4	966	17
6	0.1	1000	18
7	0.1	998	12
8	0.4	971	2
9	0.3	990	−5
10	0.7	937	−17

18UT

Day	km	hPa	C
0	2.4	754	−6
1	1.9	807	−1
2	0.6	941	11
3	0.5	966	16
4	1.0	912	13
5	1.7	834	12
6	2.6	756	9
7	3.8	645	−1
8	5.7	498	−17
9	3.3	678	0
10	2.1	794	12

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/3/2006 (Day of Year 34)
NCEP/NCAR Reanalysis 1 Data Set

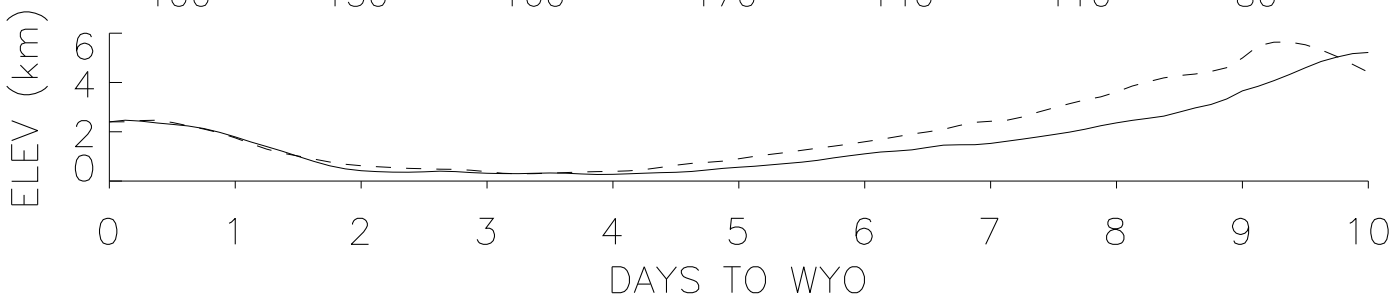


00UT

Day	km	hPa	C
0	2.4	755	−6
1	1.8	815	1
2	0.4	964	13
3	0.3	986	17
4	0.3	990	18
5	0.6	958	15
6	1.1	900	12
7	1.5	855	8
8	2.4	767	2
9	3.7	645	−11
10	5.2	517	−28

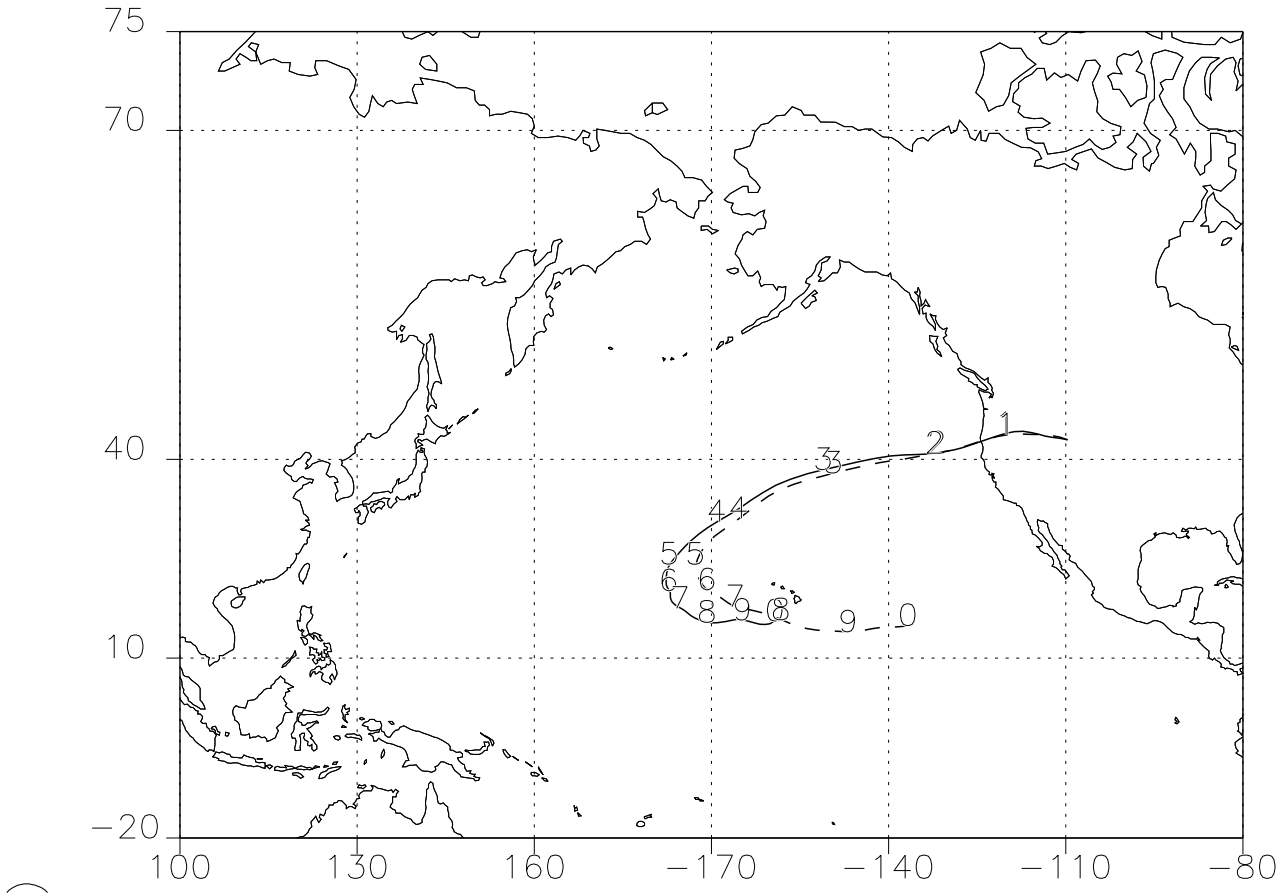
06UT

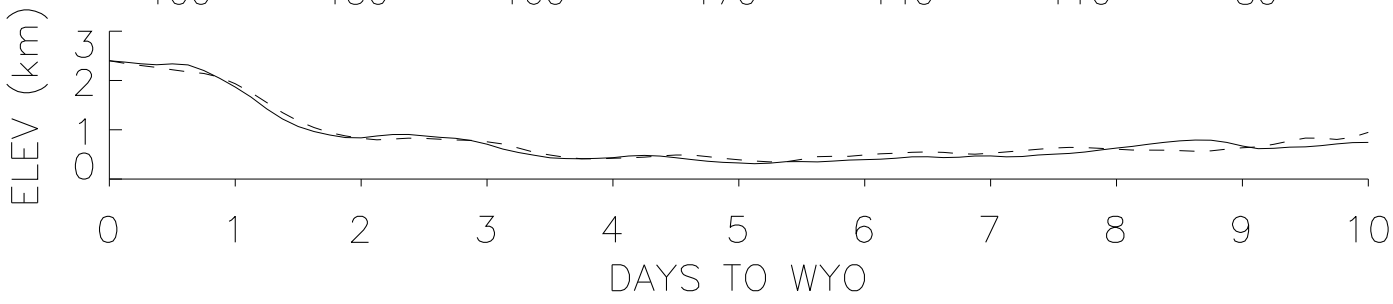
Day	km	hPa	C
0	2.4	757	−6
1	1.8	819	−2
2	0.6	940	10
3	0.4	971	15
4	0.4	976	17
5	0.9	919	13
6	1.6	849	12
7	2.4	768	7
8	3.6	658	−3
9	5.0	542	−16
10	4.4	585	−11



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/3/2006 (Day of Year 34)
NCEP/NCAR Reanalysis 1 Data Set





12UT

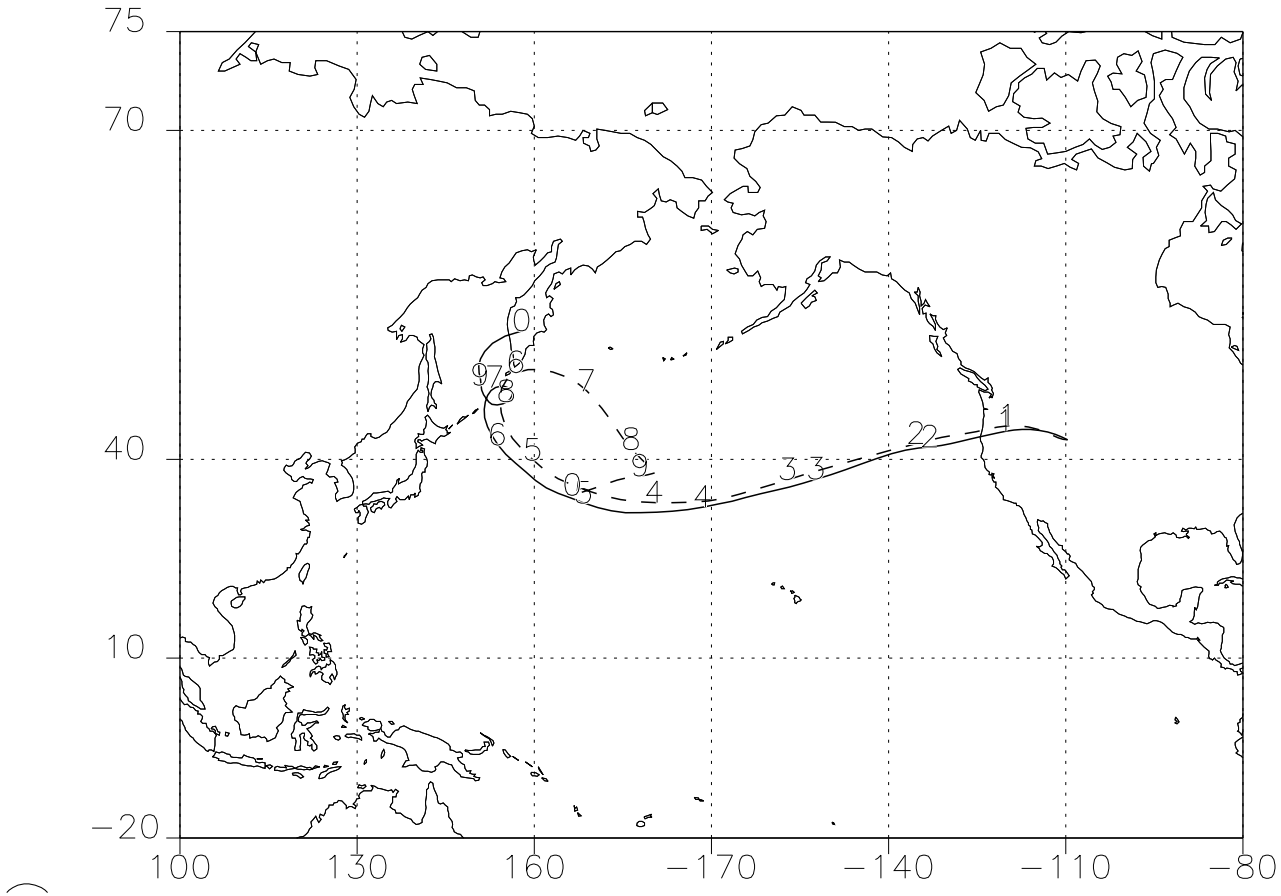
Day	km	hPa	C
0	2.4	758	−7
1	1.9	807	−1
2	0.8	916	7
3	0.7	925	10
4	0.4	958	16
5	0.3	977	23
6	0.4	969	23
7	0.5	961	22
8	0.6	942	19
9	0.7	936	20
10	0.7	927	20

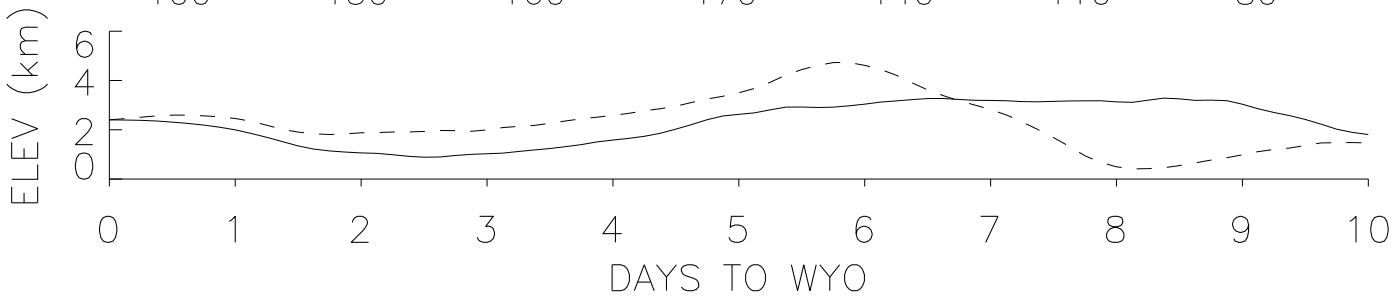
18UT

Day	km	hPa	C
0	2.4	760	−5
1	1.9	803	−2
2	0.8	919	10
3	0.8	923	11
4	0.4	961	17
5	0.4	969	22
6	0.5	961	21
7	0.5	957	21
8	0.6	947	21
9	0.6	944	20
10	0.9	909	16

12UT – solid
18UT – dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/4/2006 (Day of Year 35)
NCEP/NCAR Reanalysis 1 Data Set





00UT

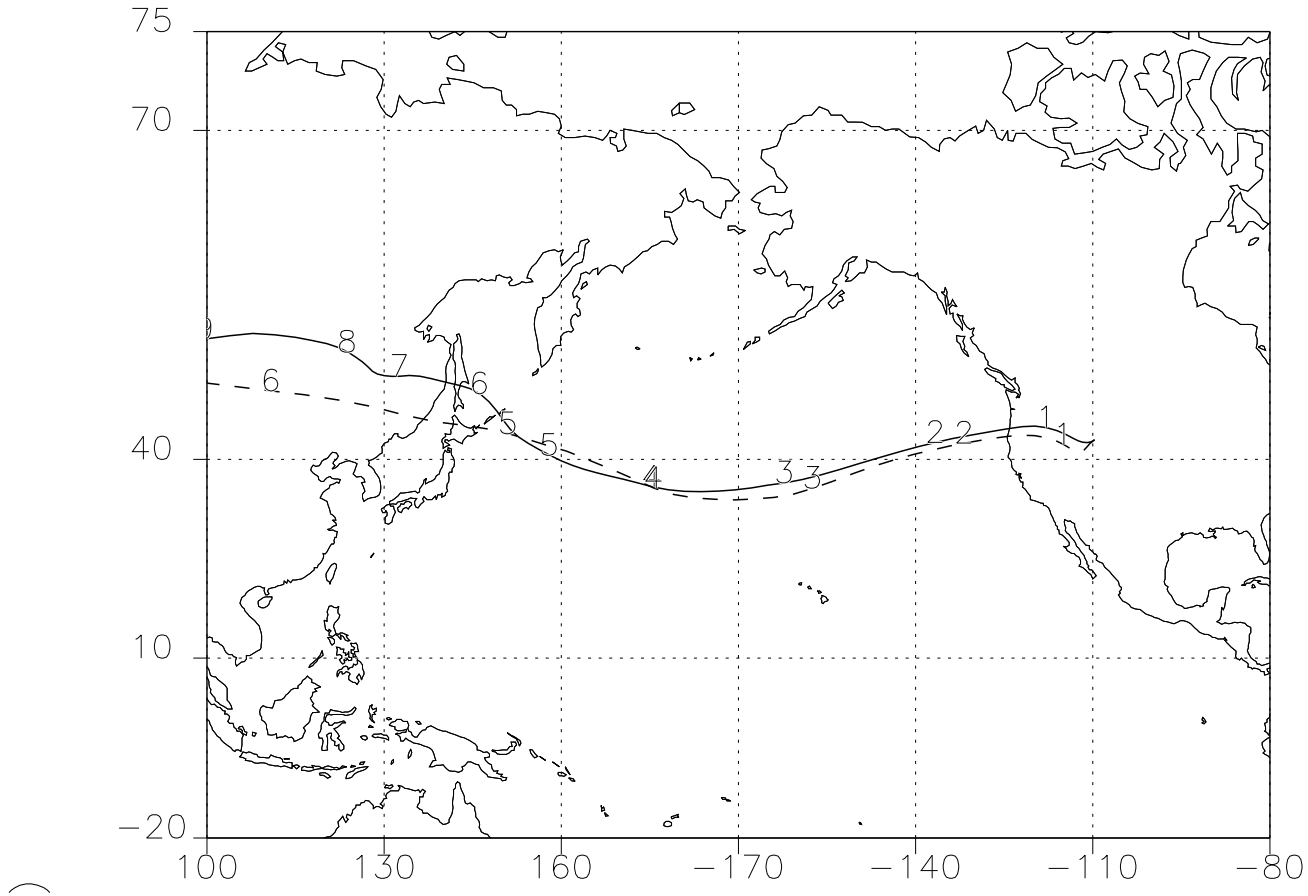
Day	km	hPa	C
0	2.4	761	−5
1	2.0	797	−1
2	1.1	890	5
3	1.0	894	9
4	1.6	832	4
5	2.6	726	−11
6	3.0	679	−21
7	3.2	657	−24
8	3.1	656	−23
9	3.0	664	−21
10	1.8	779	−9

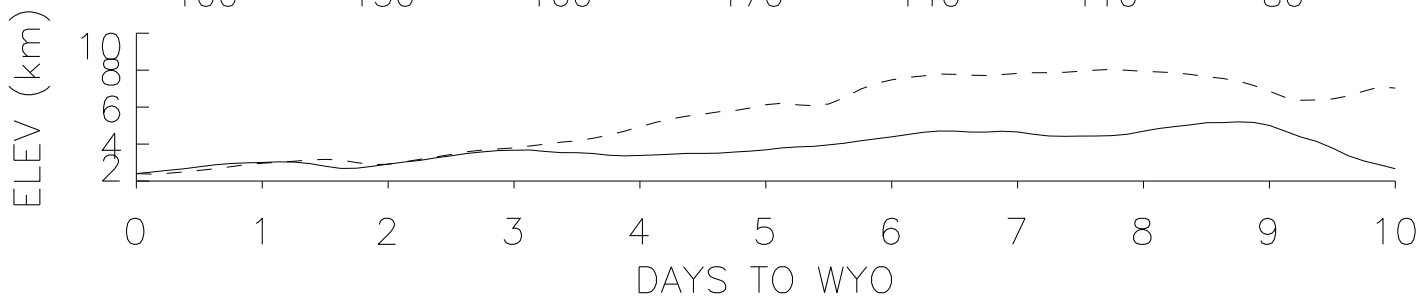
06UT

Day	km	hPa	C
0	2.4	762	−5
1	2.5	752	−6
2	1.9	806	−1
3	2.0	792	1
4	2.6	732	−6
5	3.5	643	−20
6	4.6	544	−29
7	2.8	689	−14
8	0.5	938	5
9	1.0	897	1
10	1.5	842	−1

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/4/2006 (Day of Year 35)
NCEP/NCAR Reanalysis 1 Data Set





12UT

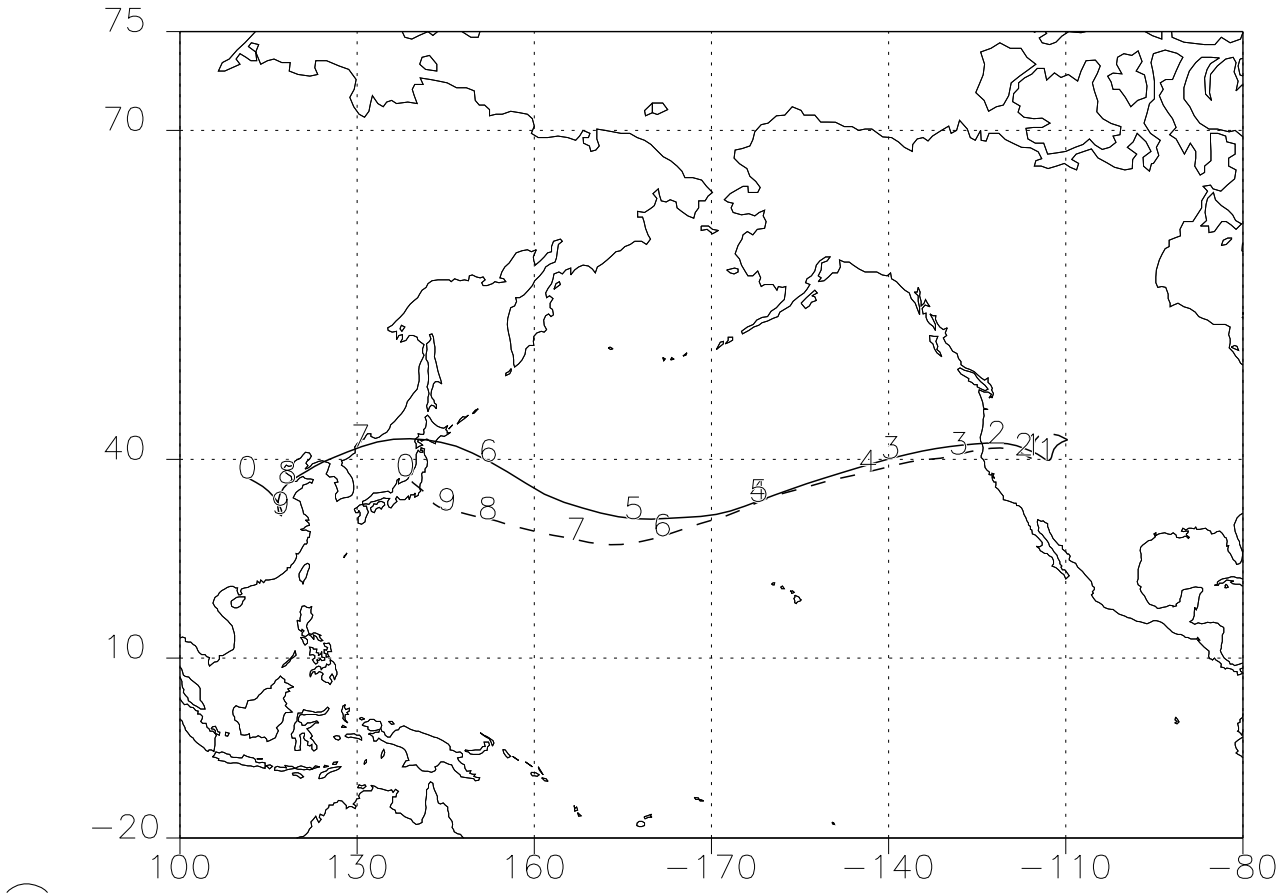
Day	km	hPa	C
0	2.4	760	−3
1	3.0	702	−9
2	2.9	705	−8
3	3.7	636	−17
4	3.4	658	−15
5	3.7	628	−22
6	4.4	572	−26
7	4.7	550	−27
8	4.7	546	−29
9	5.0	519	−33
10	2.7	726	−13

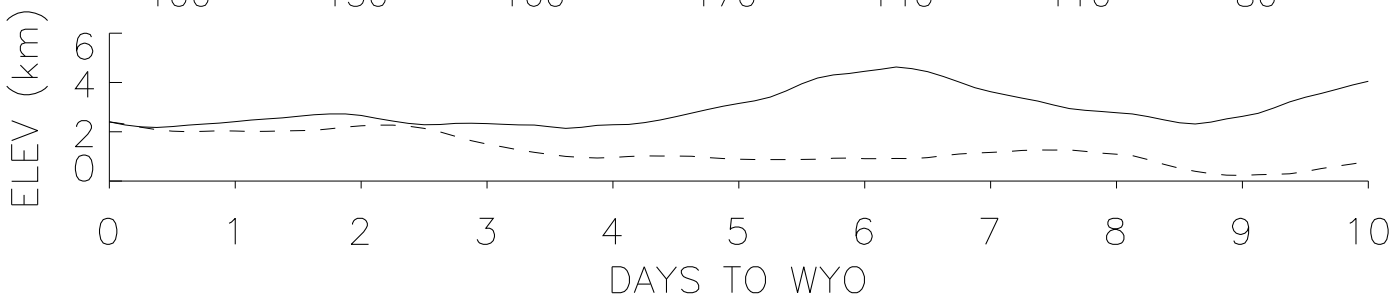
18UT

Day	km	hPa	C
0	2.4	757	0
1	3.0	710	−6
2	2.9	710	−4
3	3.8	628	−15
4	4.9	535	−27
5	6.1	444	−39
6	7.5	360	−52
7	7.8	341	−55
8	7.9	332	−55
9	6.9	396	−44
10	7.0	387	−46

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/5/2006 (Day of Year 36)
NCEP/NCAR Reanalysis 1 Data Set





00UT

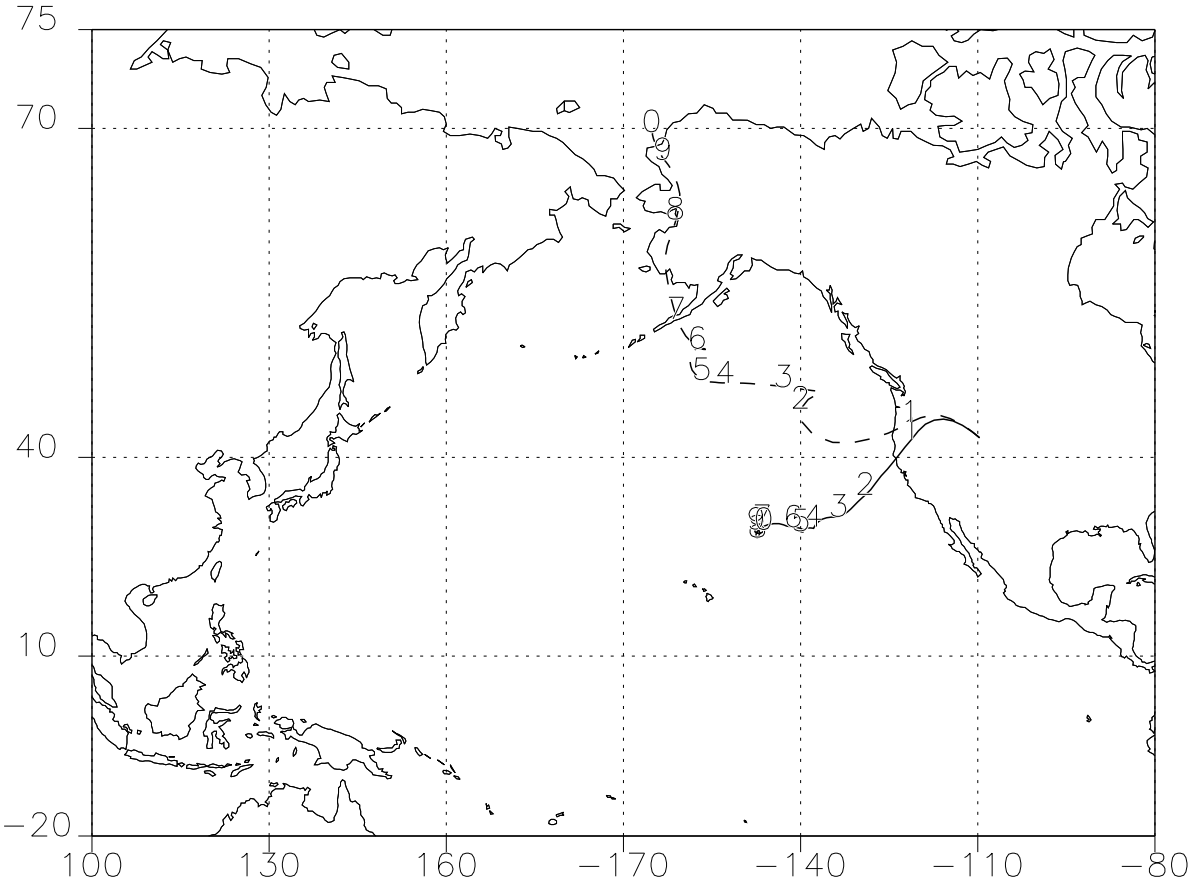
Day	km	hPa	C
0	2.4	752	0
1	2.4	763	1
2	2.7	734	−4
3	2.3	761	−2
4	2.3	768	1
5	3.1	686	−8
6	4.5	572	−23
7	3.6	644	−15
8	2.8	721	−7
9	2.6	740	−2
10	4.0	615	−15

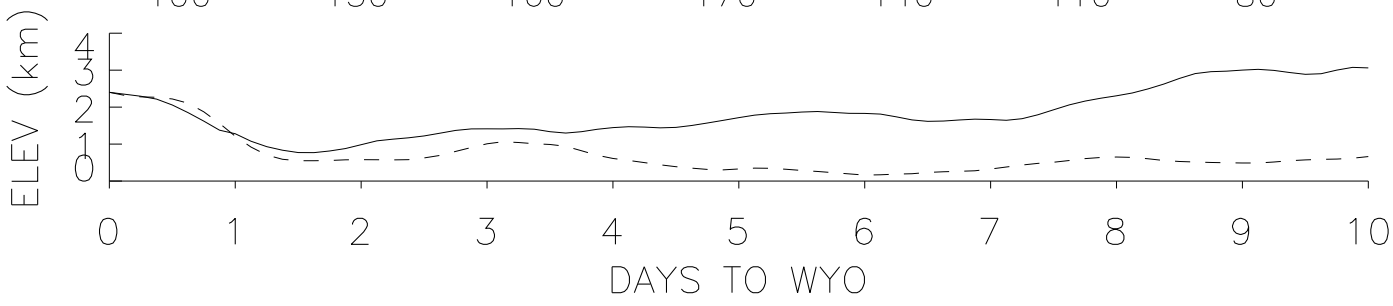
06UT

Day	km	hPa	C
0	2.4	752	−6
1	2.0	798	1
2	2.2	776	−2
3	1.5	848	4
4	1.0	905	10
5	0.9	909	11
6	0.9	906	13
7	1.2	876	7
8	1.1	880	2
9	0.2	981	11
10	0.8	920	−4

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/5/2006 (Day of Year 36)
NCEP/NCAR Reanalysis 1 Data Set





12UT

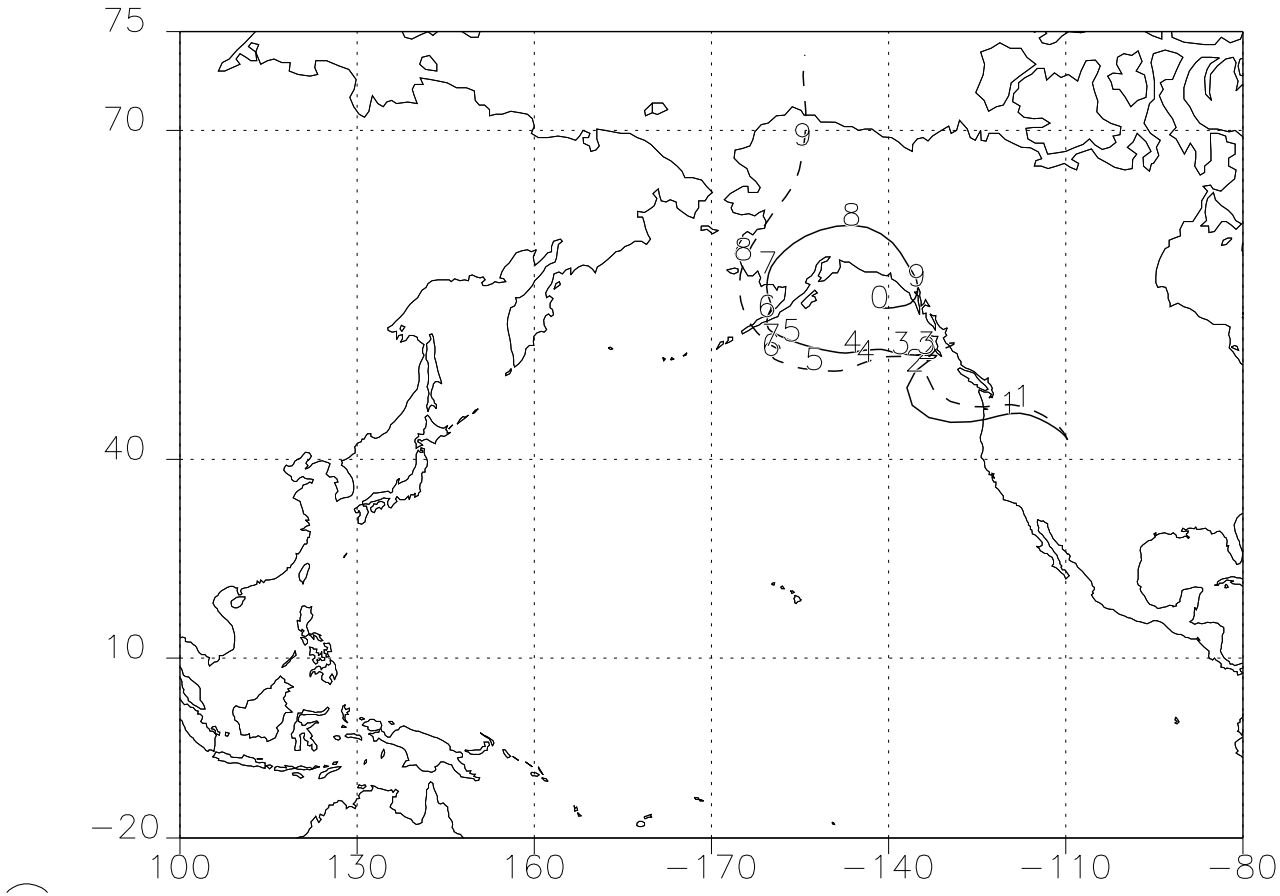
Day	km	hPa	C
0	2.4	755	−9
1	1.3	868	3
2	1.0	908	9
3	1.4	865	10
4	1.4	864	10
5	1.7	837	11
6	1.8	825	9
7	1.7	841	11
8	2.3	780	11
9	3.0	718	6
10	3.1	712	4

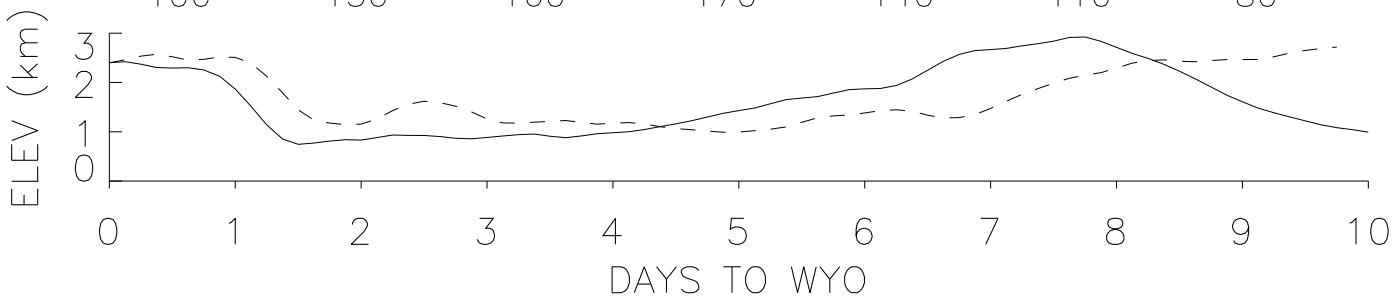
18UT

Day	km	hPa	C
0	2.4	759	−10
1	1.2	875	−1
2	0.6	928	1
3	1.0	884	−5
4	0.6	914	−2
5	0.3	946	0
6	0.2	963	−3
7	0.3	960	−16
8	0.6	927	−23
9	0.5	952	−22
10	0.7	928	−22

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/6/2006 (Day of Year 37)
NCEP/NCAR Reanalysis 1 Data Set





00UT

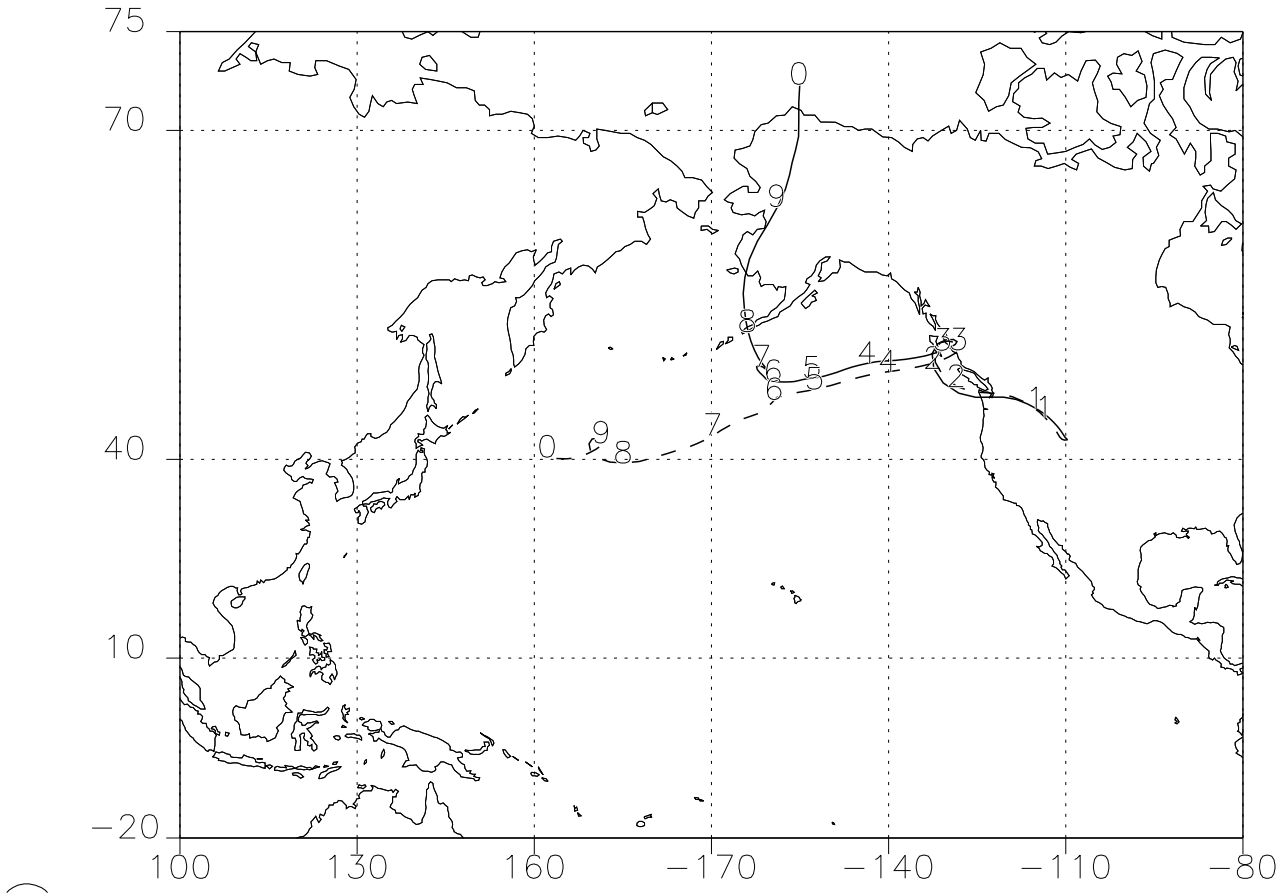
Day	km	hPa	C
0	2.4	762	−9
1	1.9	807	−6
2	0.8	898	−3
3	0.9	896	−4
4	1.0	873	−8
5	1.4	818	−15
6	1.9	771	−19
7	2.7	698	−24
8	2.7	693	−24
9	1.6	815	−12
10	1.0	881	−7

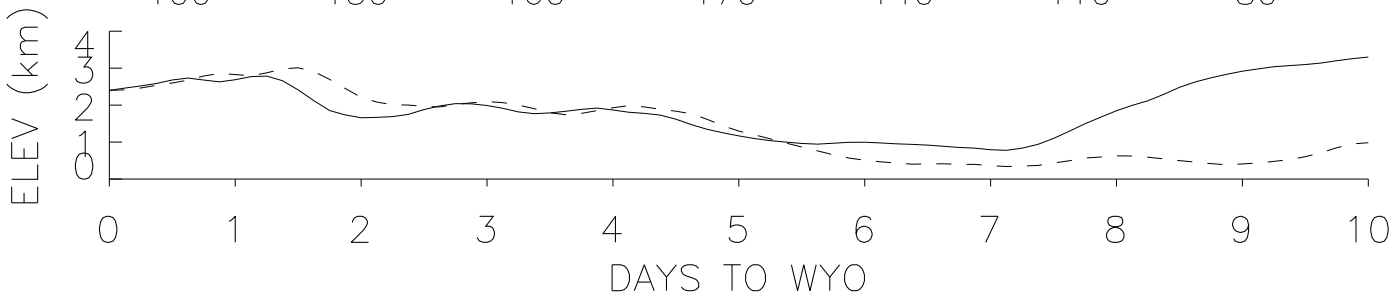
06UT

Day	km	hPa	C
0	2.4	764	−10
1	2.5	743	−12
2	1.2	856	−4
3	1.3	857	−6
4	1.2	856	−8
5	1.0	868	−7
6	1.4	822	−13
7	1.5	824	−17
8	2.3	740	−24
9	2.5	726	−25

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/6/2006 (Day of Year 37)
NCEP/NCAR Reanalysis 1 Data Set





12UT

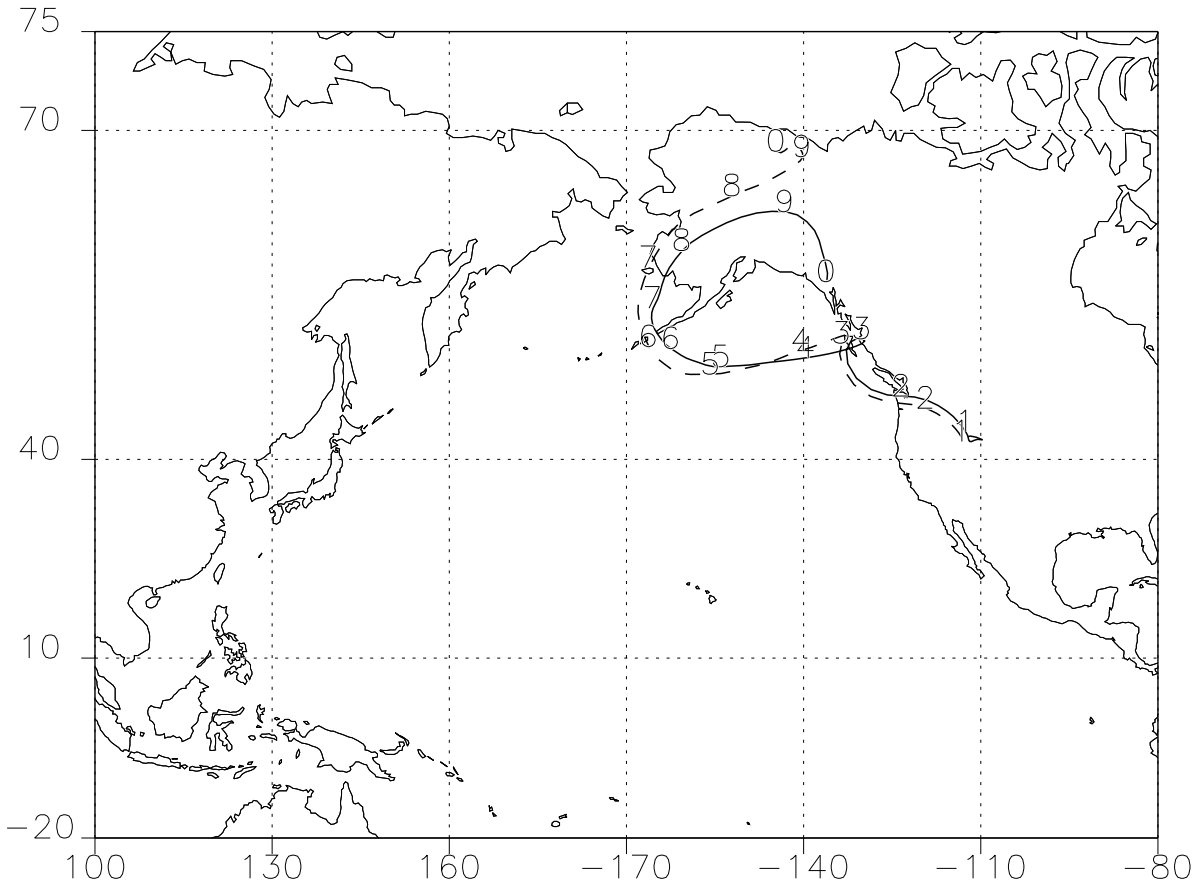
Day	km	hPa	C
0	2.4	766	−9
1	2.7	729	−12
2	1.7	803	−7
3	2.0	785	−10
4	1.9	783	−12
5	1.2	851	−7
6	1.0	868	−8
7	0.8	895	−8
8	1.8	786	−21
9	2.9	682	−29
10	3.3	644	−29

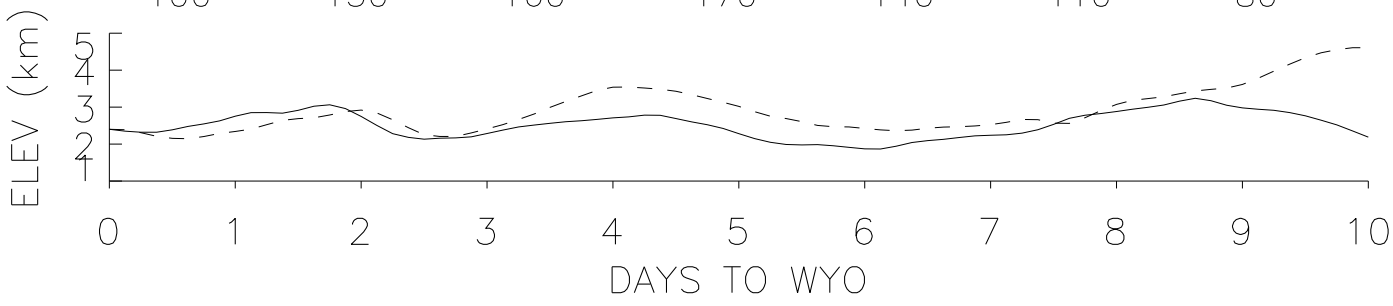
18UT

Day	km	hPa	C
0	2.4	768	−7
1	2.8	719	−12
2	2.2	757	−9
3	2.1	777	−11
4	1.9	782	−11
5	1.3	838	−7
6	0.5	924	1
7	0.4	946	3
8	0.6	919	0
9	0.4	953	0
10	1.0	884	−7

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/7/2006 (Day of Year 38)
NCEP/NCAR Reanalysis 1 Data Set





00UT

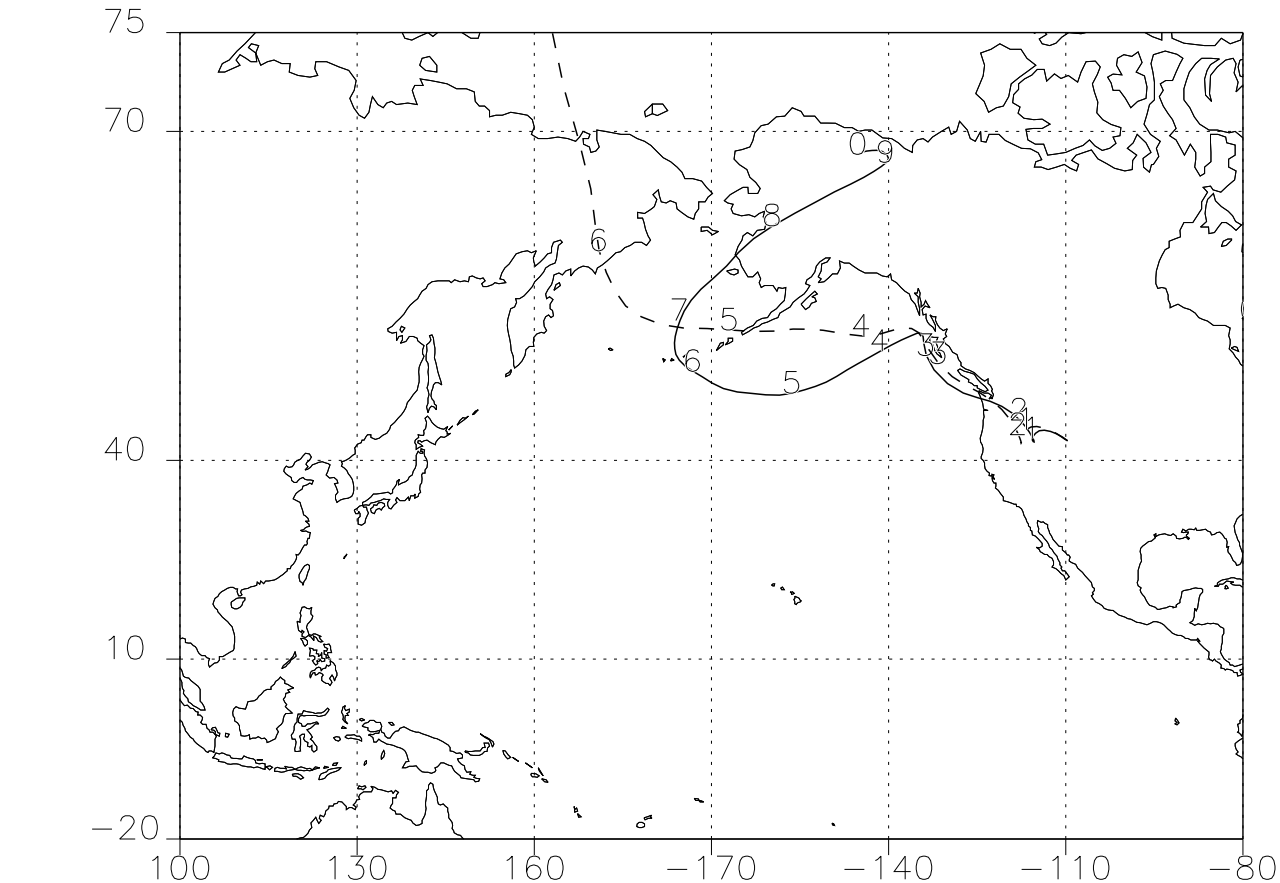
Day	km	hPa	C
0	2.4	766	−3
1	2.8	729	−11
2	2.7	716	−13
3	2.3	752	−12
4	2.7	707	−17
5	2.3	737	−16
6	1.9	773	−19
7	2.2	736	−23
8	2.9	680	−25
9	3.0	671	−24
10	2.2	754	−16

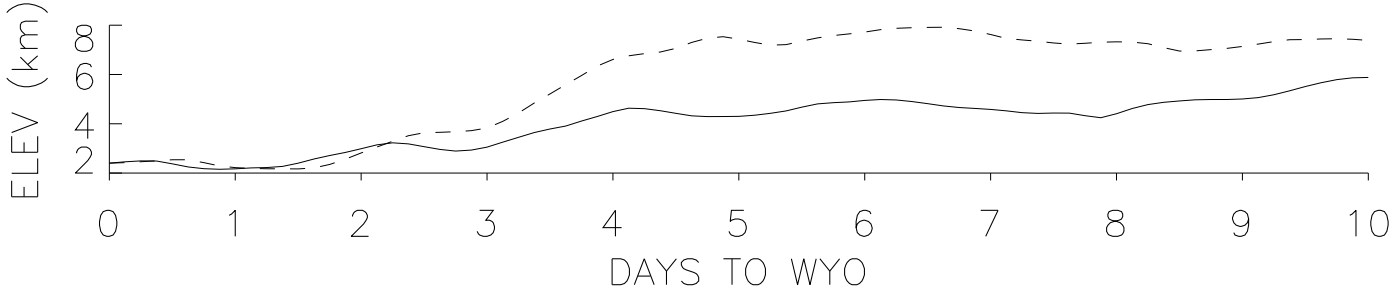
06UT

Day	km	hPa	C
0	2.4	767	−4
1	2.3	771	−9
2	2.9	705	−14
3	2.4	731	−13
4	3.5	634	−24
5	3.0	671	−19
6	2.4	720	−21
7	2.5	707	−23
8	3.1	664	−26
9	3.6	616	−30
10	4.6	535	−39

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/7/2006 (Day of Year 38)
NCEP/NCAR Reanalysis 1 Data Set





12UT

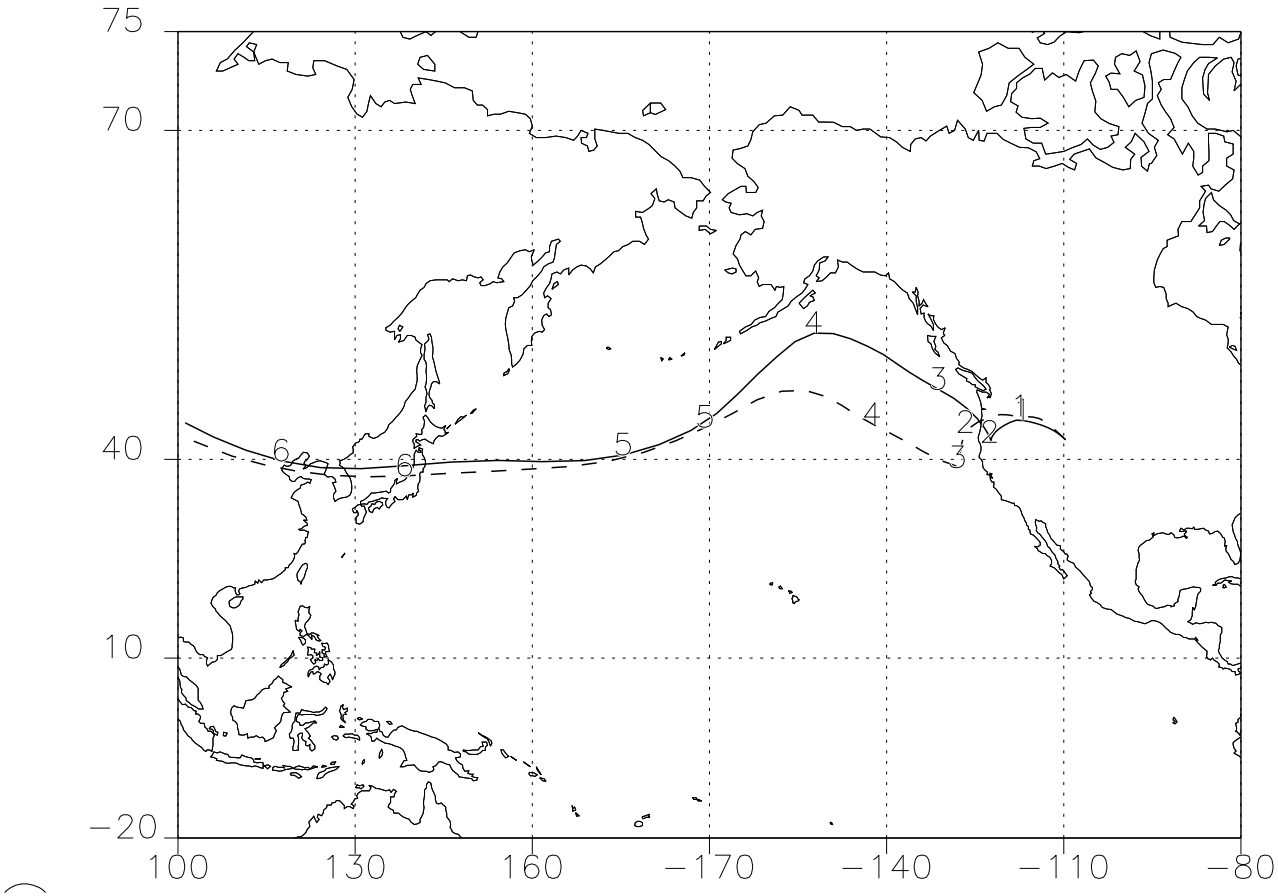
Day	km	hPa	C
0	2.4	766	−5
1	2.2	788	−6
2	3.0	703	−12
3	3.1	671	−16
4	4.5	556	−33
5	4.3	568	−29
6	4.9	512	−38
7	4.6	534	−33
8	4.4	549	−34
9	5.0	506	−39
10	5.9	442	−46

18UT

Day	km	hPa	C
0	2.4	768	−4
1	2.2	782	−2
2	2.8	724	−7
3	3.8	611	−16
4	6.6	407	−46
5	7.4	347	−54
6	7.7	332	−52
7	7.6	339	−51
8	7.3	353	−47
9	7.1	372	−44
10	7.4	366	−43

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/8/2006 (Day of Year 39)
NCEP/NCAR Reanalysis 1 Data Set

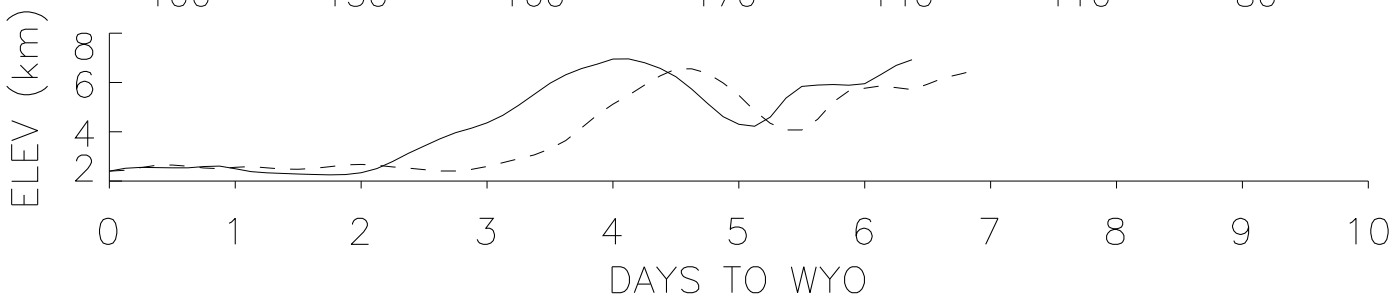


00UT

Day	km	hPa	C
0	2.4	767	0
1	2.5	755	−1
2	2.3	769	4
3	4.4	581	−17
4	7.0	390	−42
5	4.3	575	−19
6	6.0	465	−30

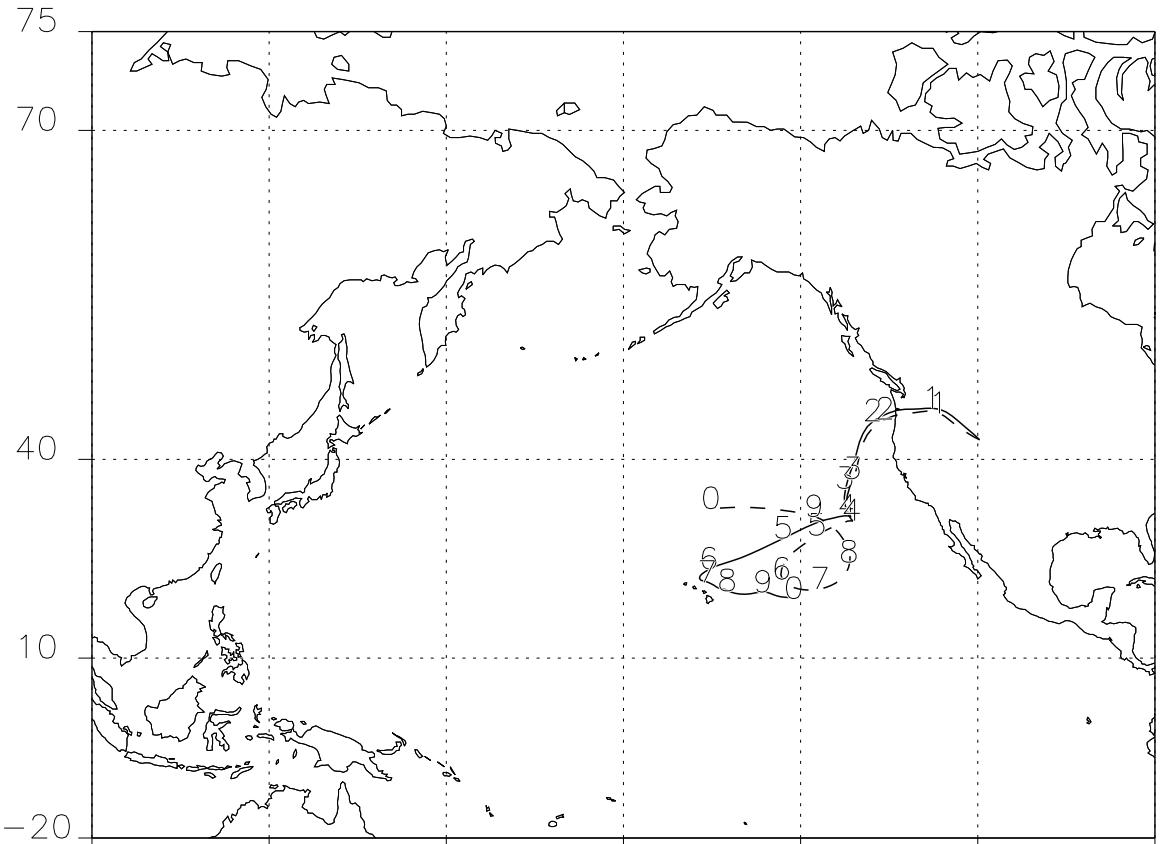
06UT

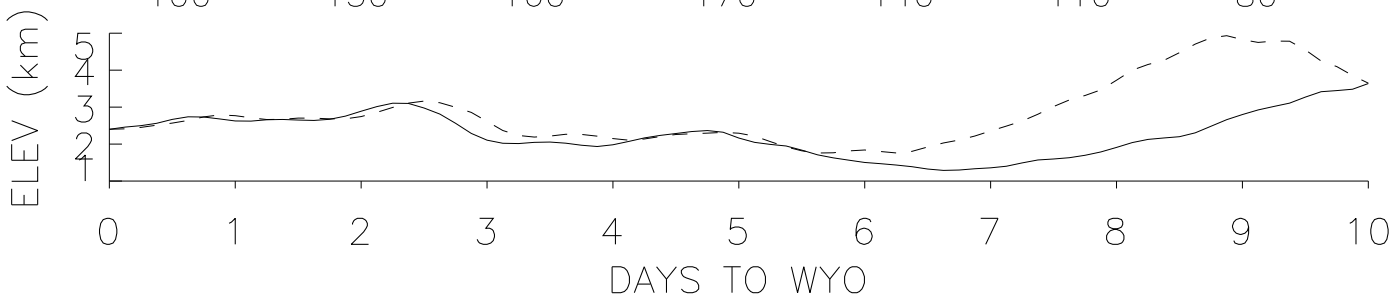
Day	km	hPa	C
0	2.4	768	−2
1	2.6	751	−1
2	2.7	736	2
3	2.6	747	1
4	5.1	522	−23
5	5.5	489	−28
6	5.8	477	−27



00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/8/2006 (Day of Year 39)
NCEP/NCAR Reanalysis 1 Data Set





12UT

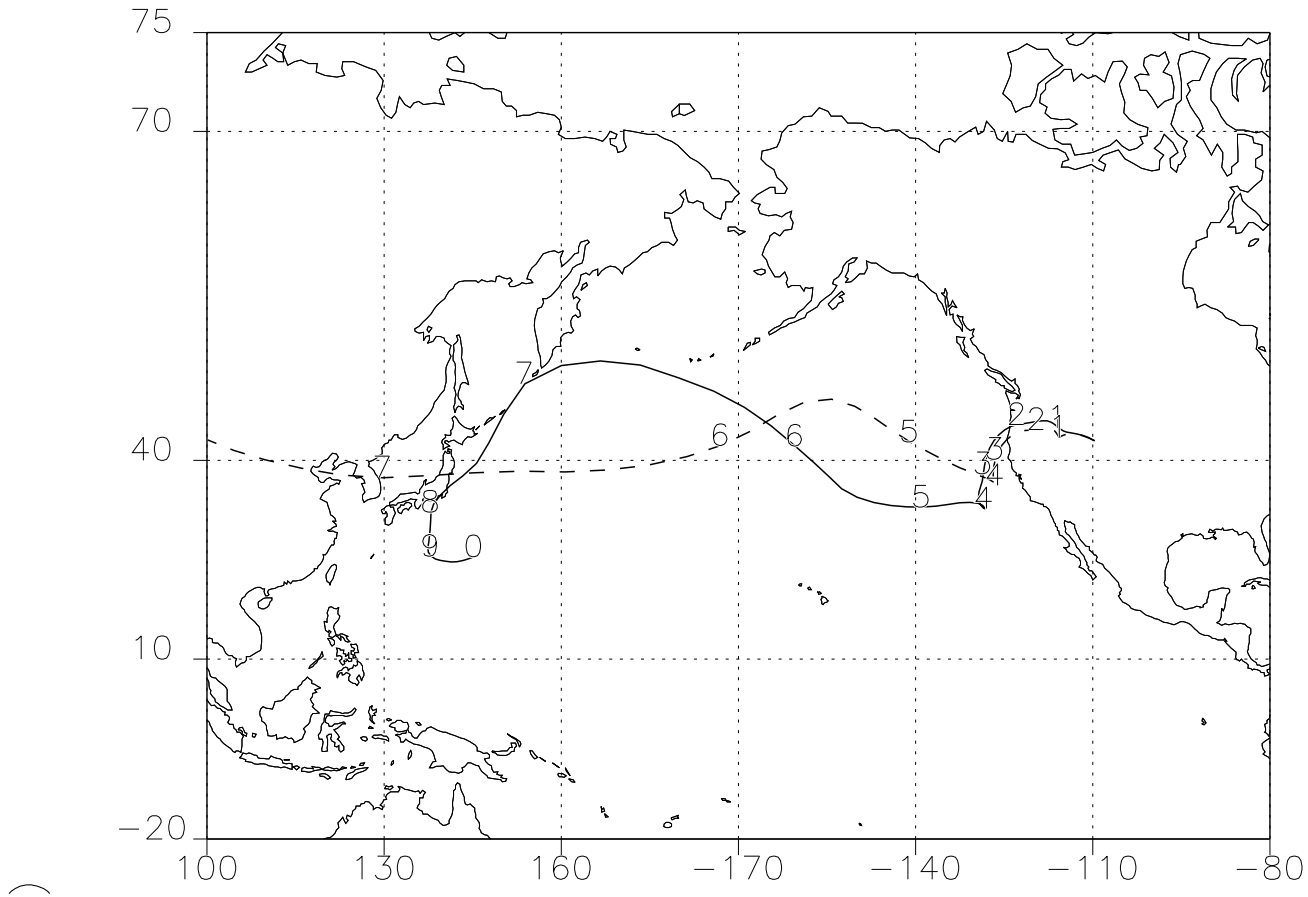
Day	km	hPa	C
0	2.4	767	−1
1	2.6	743	−1
2	2.9	715	−1
3	2.1	790	4
4	2.0	806	6
5	2.2	783	5
6	1.5	851	11
7	1.4	870	14
8	1.9	814	11
9	2.8	730	9
10	3.6	660	4

18UT

Day	km	hPa	C
0	2.4	769	−1
1	2.8	732	0
2	2.7	732	2
3	2.6	742	2
4	2.1	790	6
5	2.3	774	6
6	1.8	820	10
7	2.4	773	10
8	3.7	654	1
9	4.8	569	−7
10	3.6	656	−1

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/9/2006 (Day of Year 40)
NCEP/NCAR Reanalysis 1 Data Set

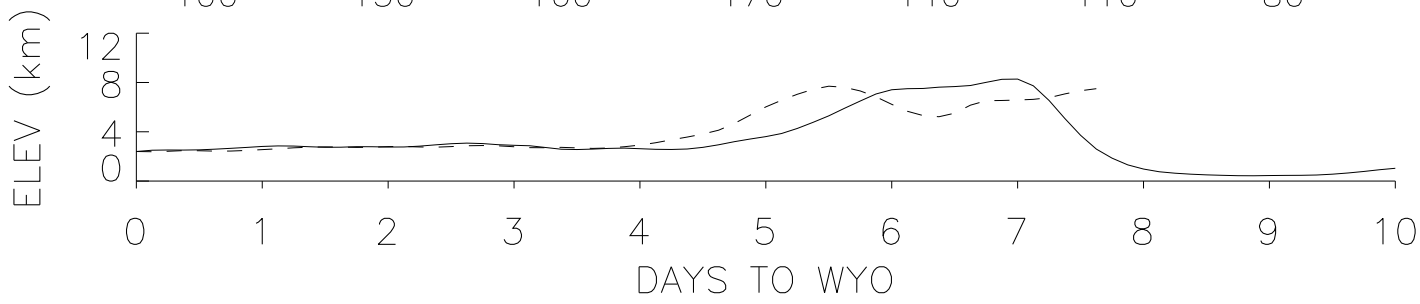


00UT

Day	km	hPa	C
0	2.4	766	2
1	2.8	730	1
2	2.8	732	2
3	2.9	716	2
4	2.6	745	4
5	3.6	652	−5
6	7.4	370	−42
7	8.3	321	−47
8	1.0	903	10
9	0.4	974	14
10	1.0	909	6

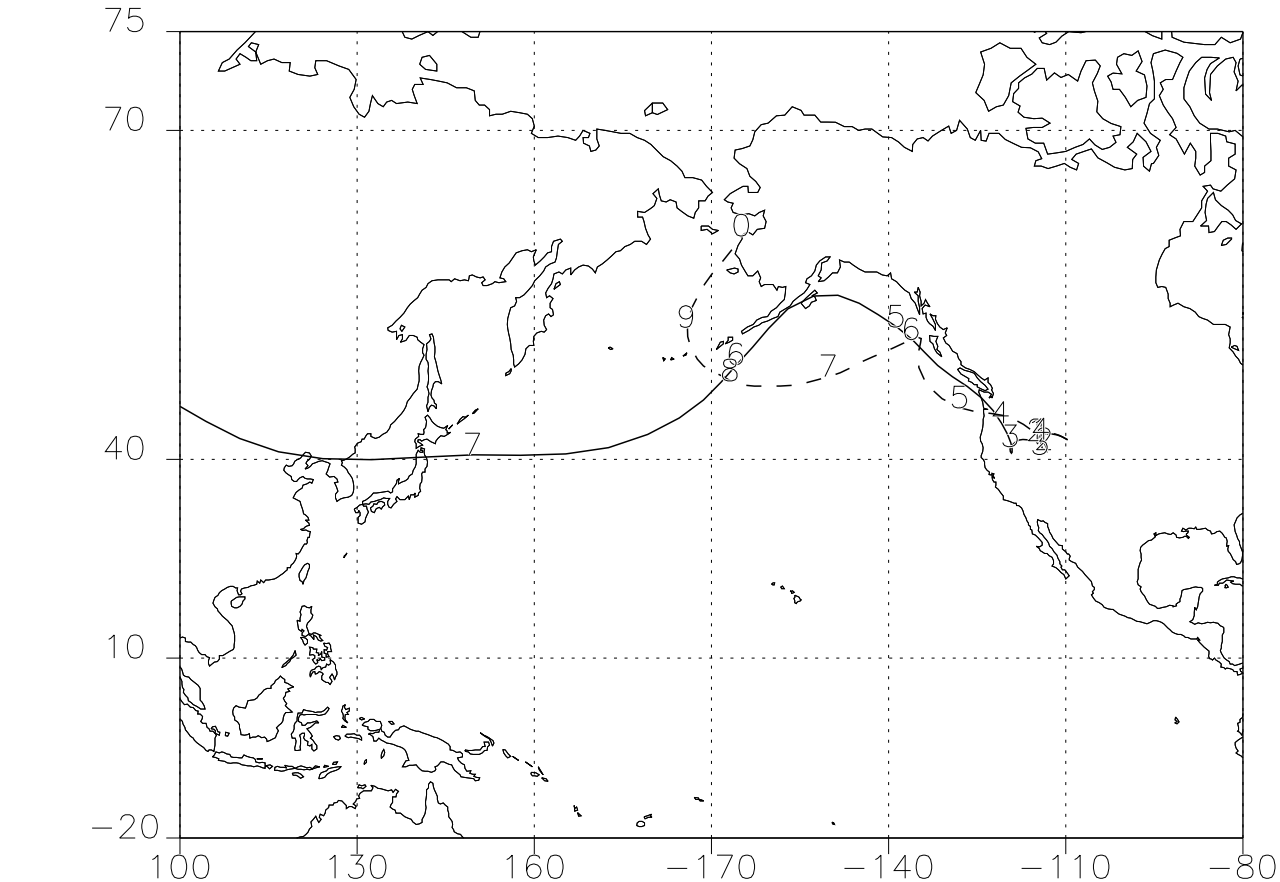
06UT

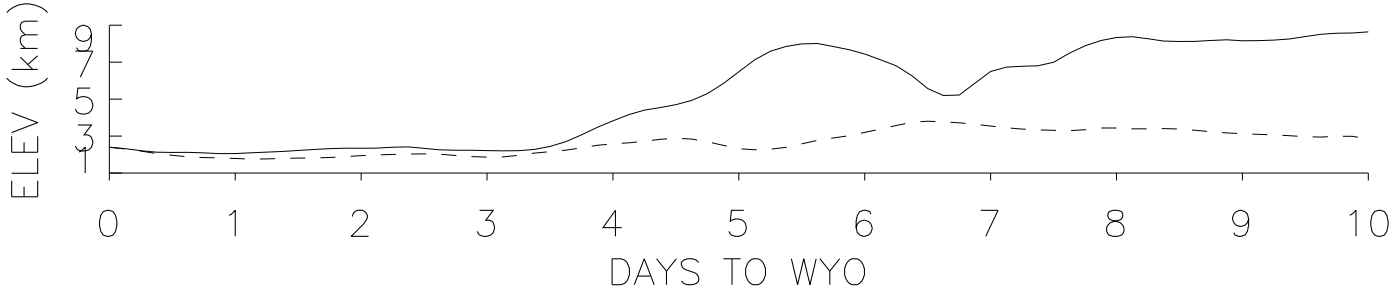
Day	km	hPa	C
0	2.4	765	−1
1	2.6	754	0
2	2.8	730	1
3	2.8	727	3
4	2.9	718	2
5	6.0	464	−30
6	6.2	443	−31
7	6.6	427	−31



00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/9/2006 (Day of Year 40)
NCEP/NCAR Reanalysis 1 Data Set





12UT

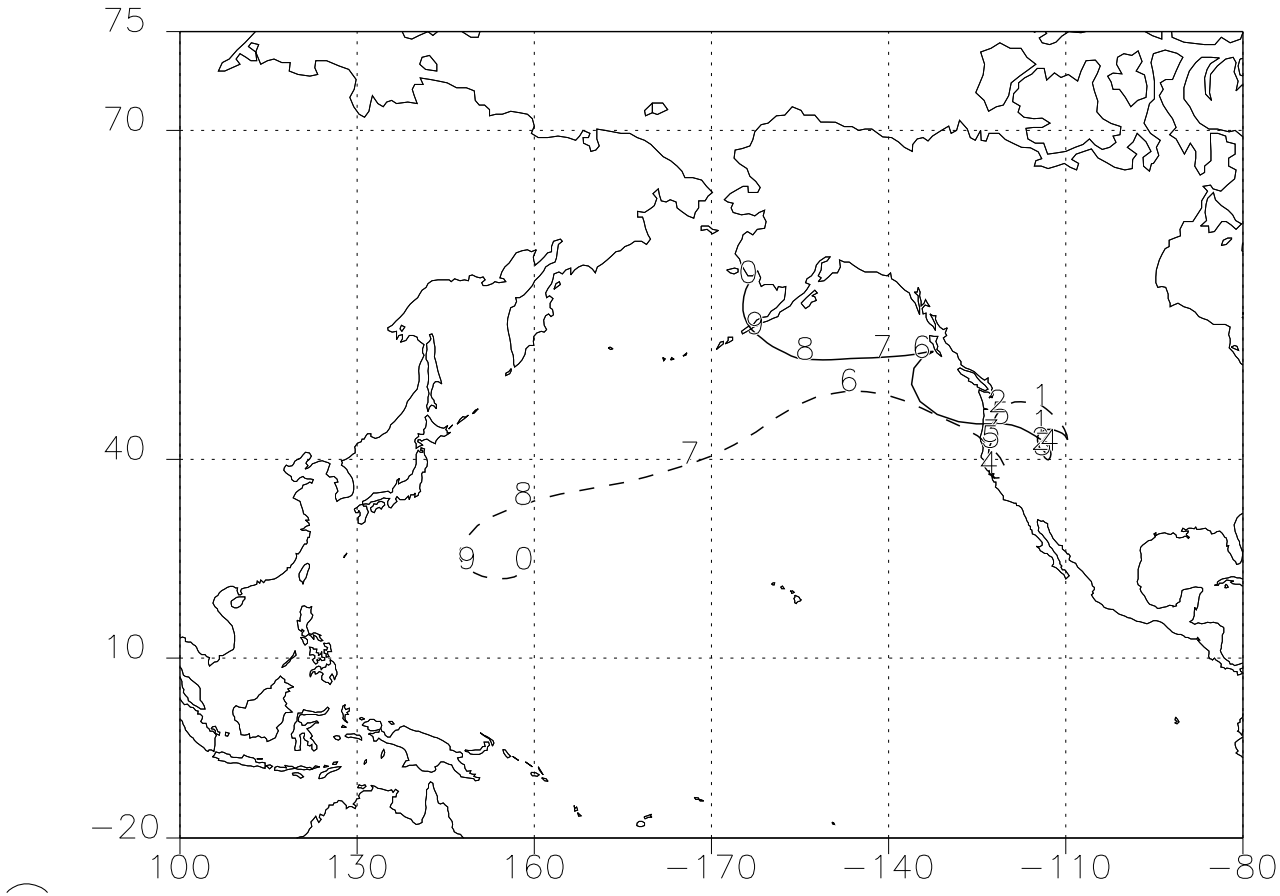
Day	km	hPa	C
0	2.4	764	−2
1	2.1	802	−2
2	2.3	773	−4
3	2.2	782	1
4	3.8	633	−11
5	6.5	420	−38
6	7.4	358	−46
7	6.5	421	−36
8	8.3	329	−50
9	8.2	338	−47
10	8.6	310	−52

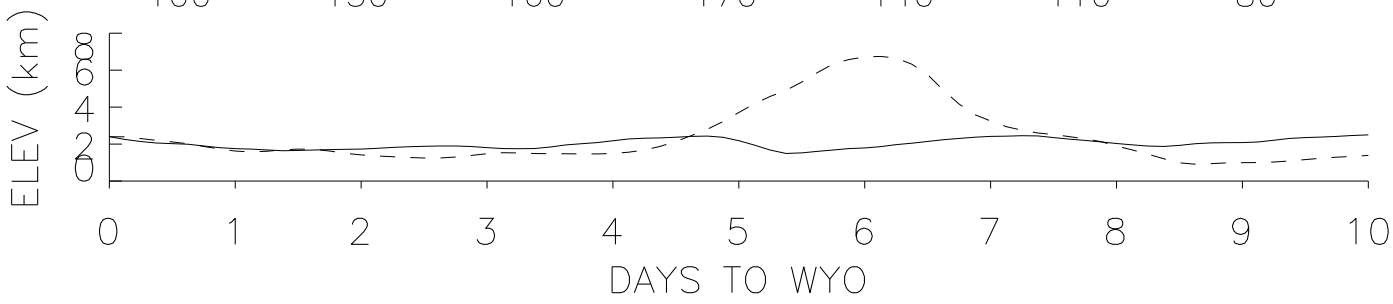
18UT

Day	km	hPa	C
0	2.4	764	−3
1	1.8	830	−4
2	1.9	814	−4
3	1.9	822	−6
4	2.6	745	−11
5	2.3	754	−10
6	3.2	668	−21
7	3.5	631	−21
8	3.4	632	−23
9	3.1	655	−26
10	2.8	682	−24

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/10/2006 (Day of Year 41)
NCEP/NCAR Reanalysis 1 Data Set





00UT

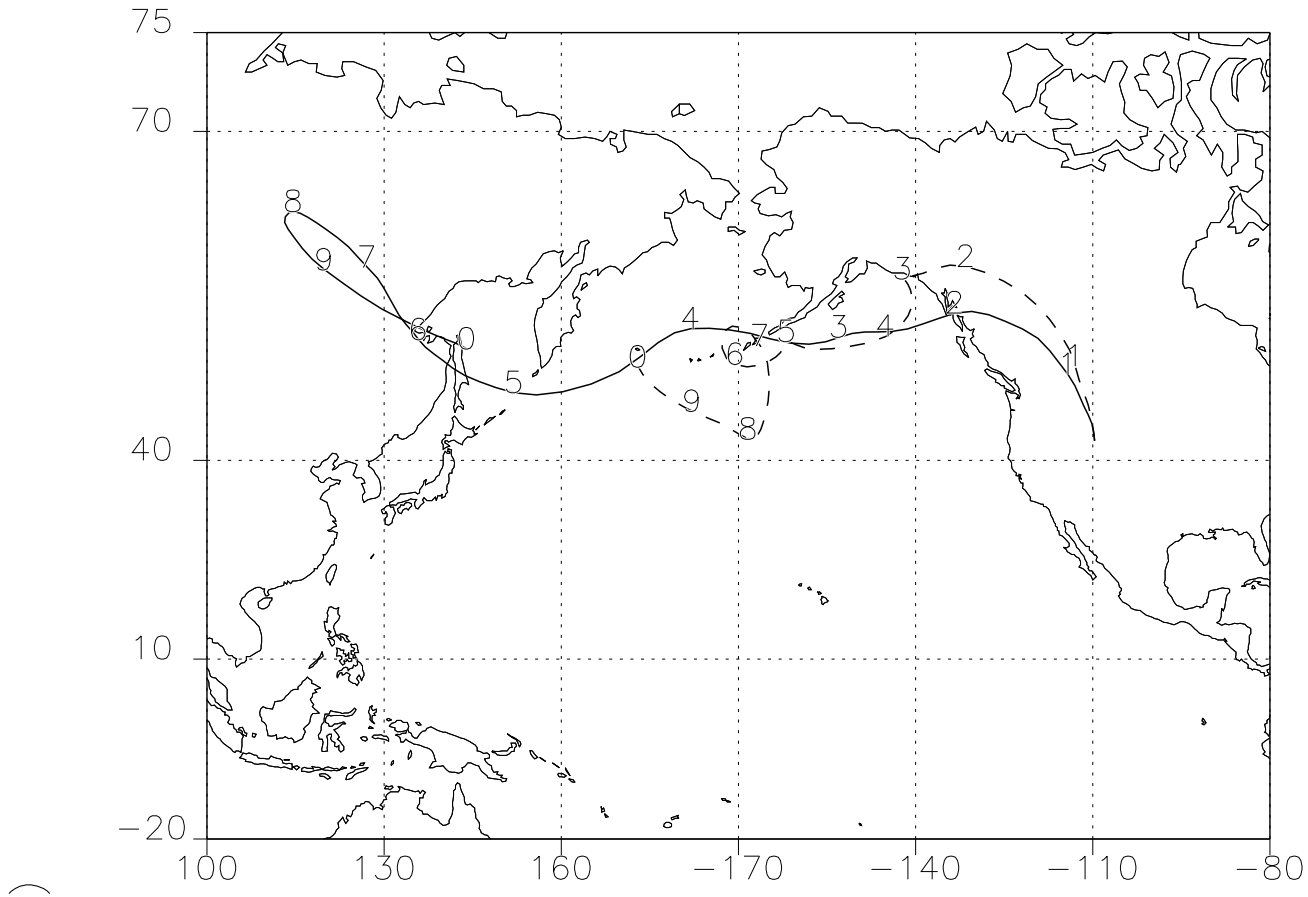
Day	km	hPa	C
0	2.4	764	−7
1	1.8	830	2
2	1.7	835	4
3	1.8	827	0
4	2.2	786	−7
5	2.2	777	−9
6	1.8	798	−10
7	2.4	736	−16
8	2.0	761	−16
9	2.1	750	−21
10	2.5	710	−24

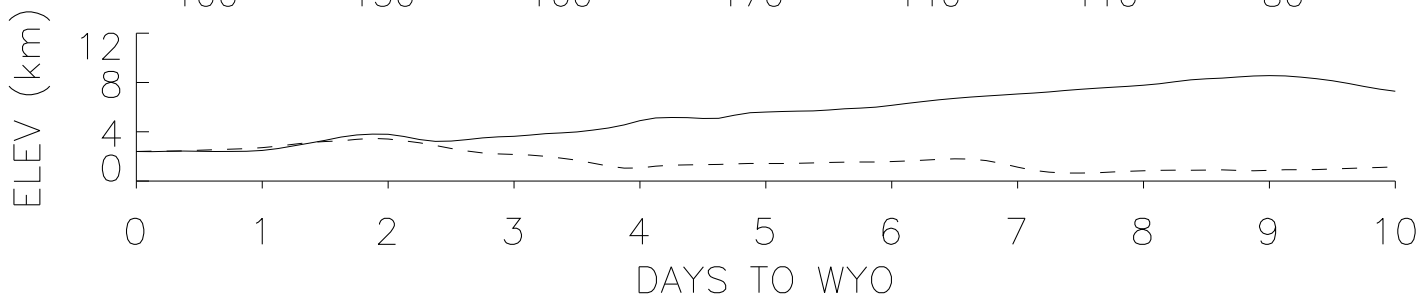
06UT

Day	km	hPa	C
0	2.4	764	−12
1	1.6	842	−2
2	1.4	865	5
3	1.5	858	10
4	1.5	853	11
5	3.7	645	−9
6	6.7	414	−36
7	3.3	671	−8
8	1.9	808	4
9	1.0	909	12
10	1.4	869	9

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/10/2006 (Day of Year 41)
NCEP/NCAR Reanalysis 1 Data Set





12UT − solid
18UT − dashed

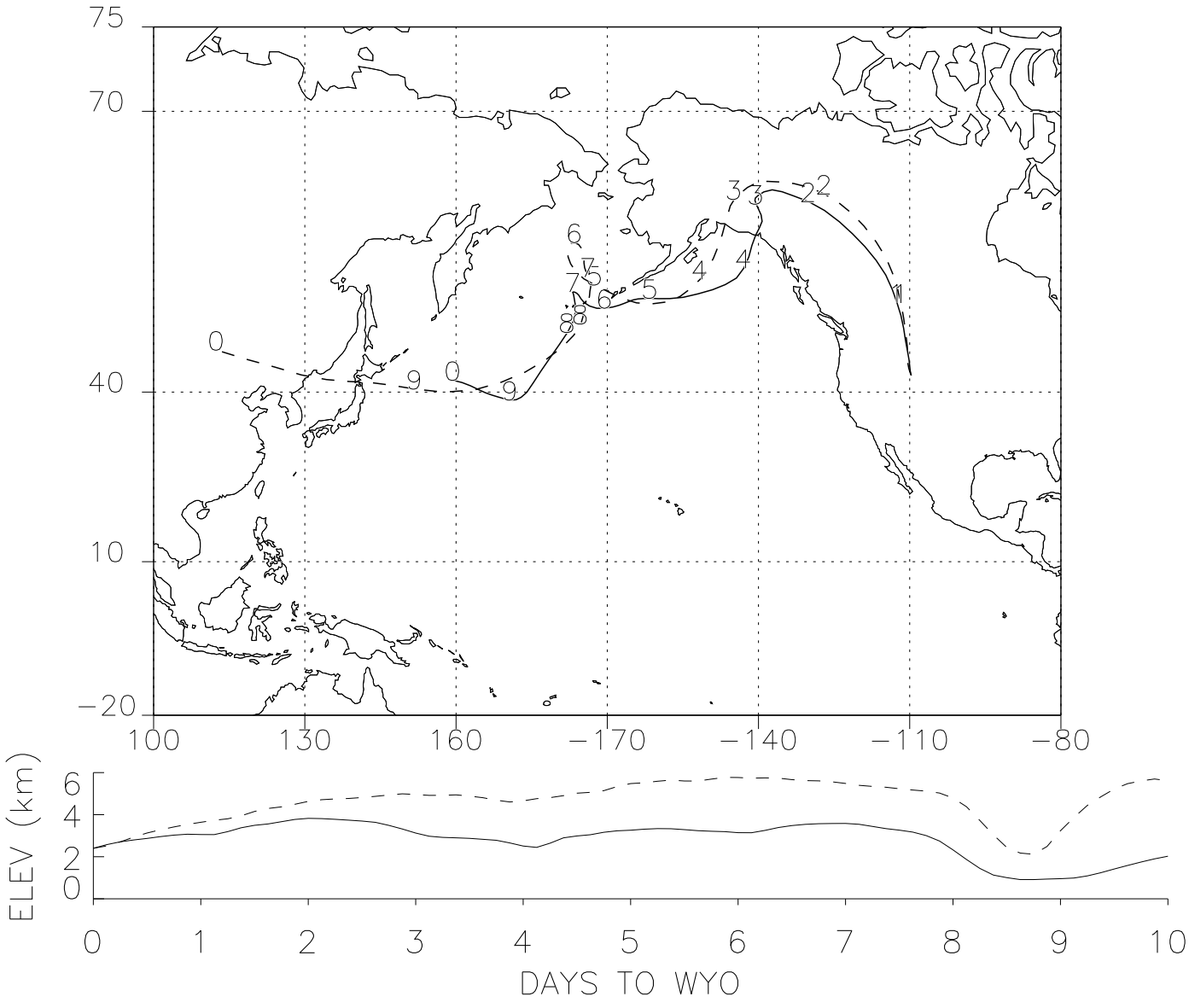
12UT

Day	km	hPa	C
0	2.4	765	−15
1	2.5	753	−14
2	3.8	622	−24
3	3.6	619	−25
4	4.9	507	−39
5	5.6	461	−46
6	6.1	431	−47
7	7.1	379	−55
8	7.8	344	−60
9	8.6	300	−65
10	7.3	363	−53

18UT

Day	km	hPa	C
0	2.4	767	−15
1	2.7	731	−17
2	3.4	652	−23
3	2.2	753	−12
4	1.1	864	−5
5	1.4	808	−9
6	1.6	796	−11
7	1.1	849	−5
8	0.8	913	−4
9	0.9	904	−8
10	1.2	870	−11

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/11/2006 (Day of Year 42)
NCEP/NCAR Reanalysis 1 Data Set



00UT

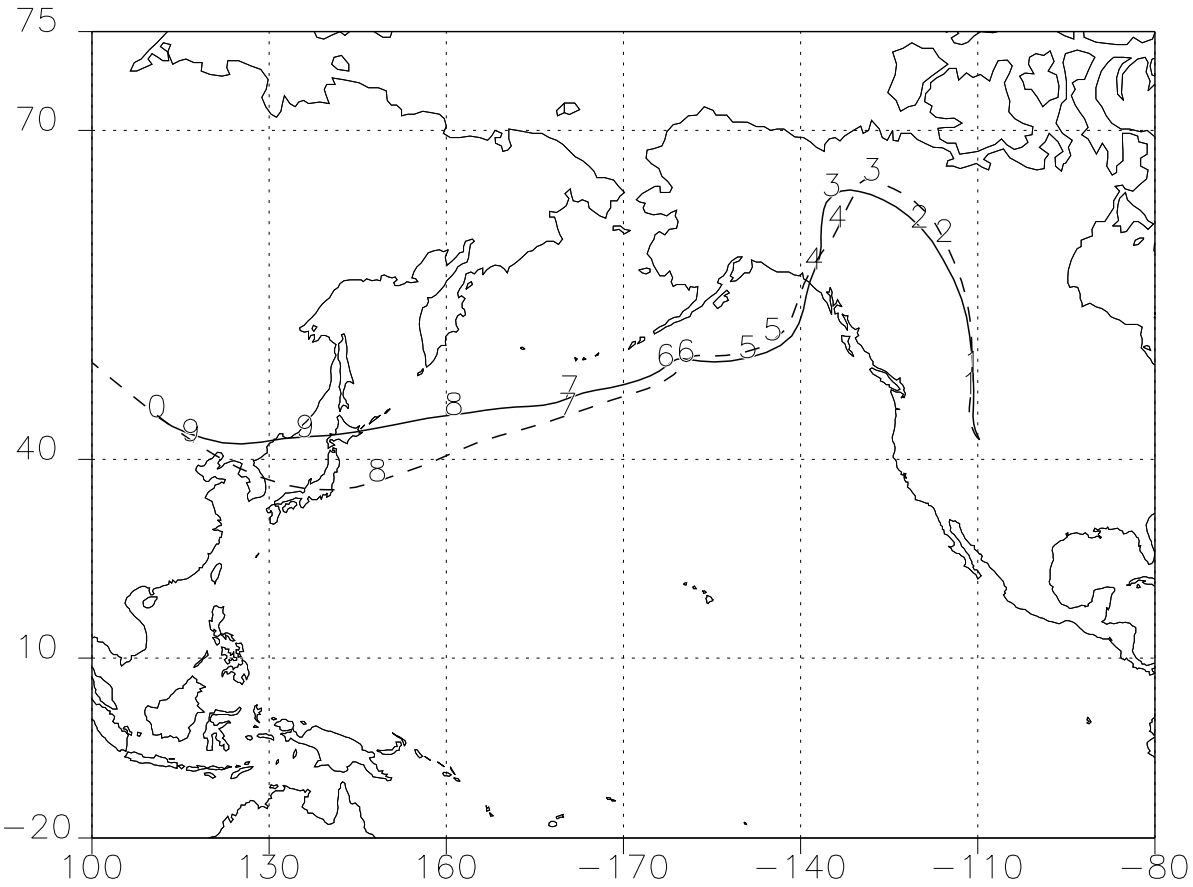
Day	km	hPa	C
0	2.4	767	−14
1	3.1	699	−20
2	3.8	617	−27
3	3.1	663	−19
4	2.5	721	−14
5	3.3	635	−23
6	3.1	647	−20
7	3.6	611	−27
8	2.3	732	−13
9	1.0	911	−2
10	2.0	789	−14

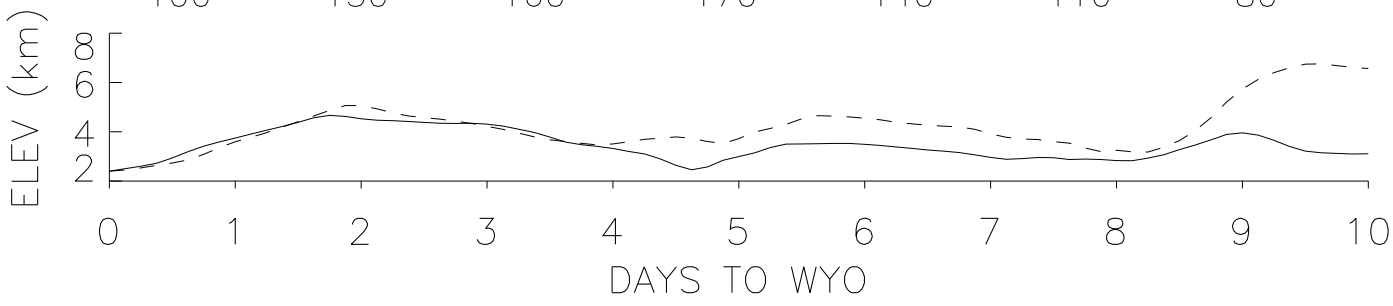
06UT

Day	km	hPa	C
0	2.4	769	−14
1	3.6	646	−25
2	4.6	552	−34
3	5.0	514	−36
4	4.7	534	−34
5	5.5	464	−42
6	5.8	444	−41
7	5.5	467	−38
8	4.8	520	−30
9	3.2	657	−18
10	5.6	473	−40

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/11/2006 (Day of Year 42)
NCEP/NCAR Reanalysis 1 Data Set





12UT

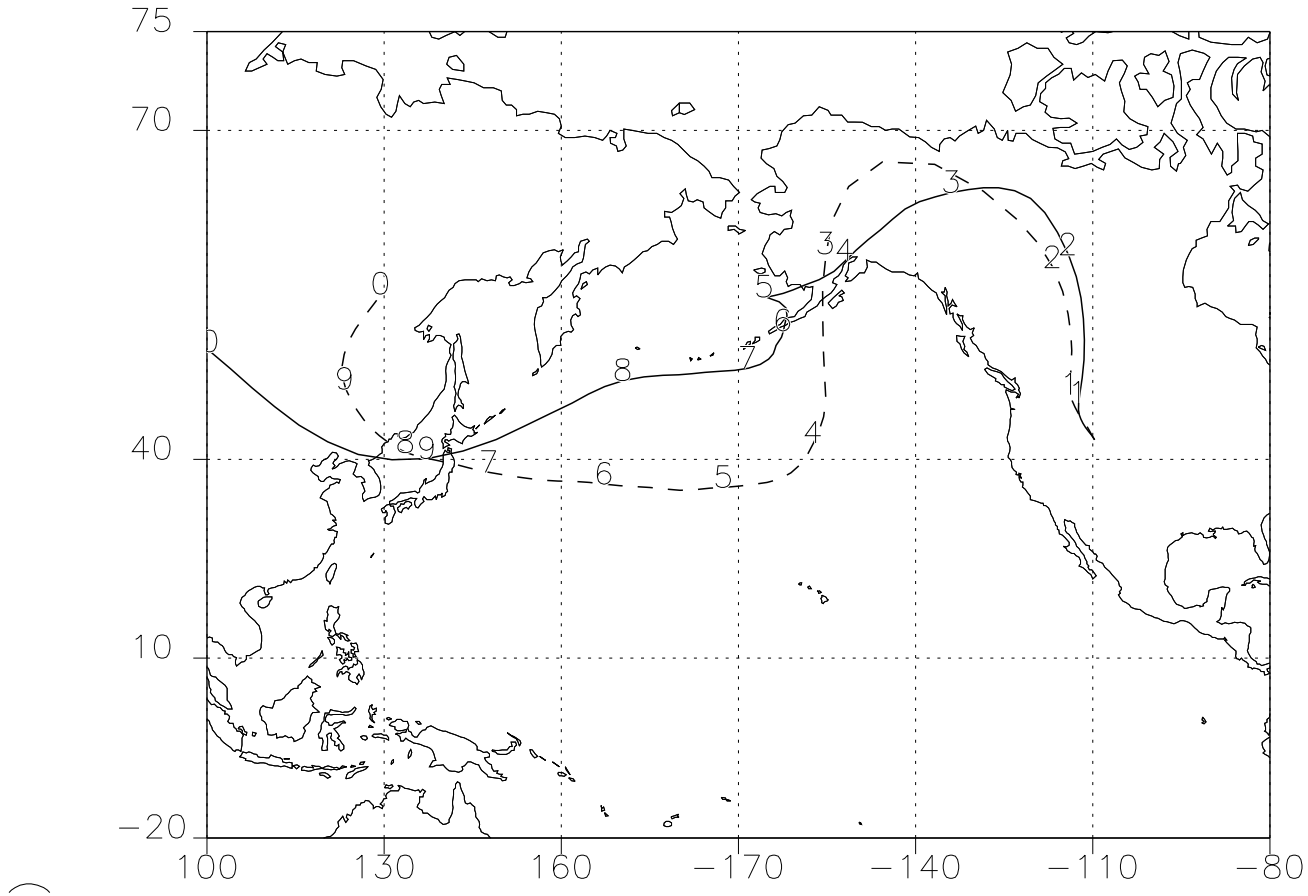
Day	km	hPa	C
0	2.4	769	−14
1	3.7	638	−23
2	4.5	561	−32
3	4.3	567	−29
4	3.3	651	−19
5	3.0	668	−19
6	3.5	617	−23
7	3.0	672	−19
8	2.8	691	−22
9	4.0	591	−39
10	3.1	679	−30

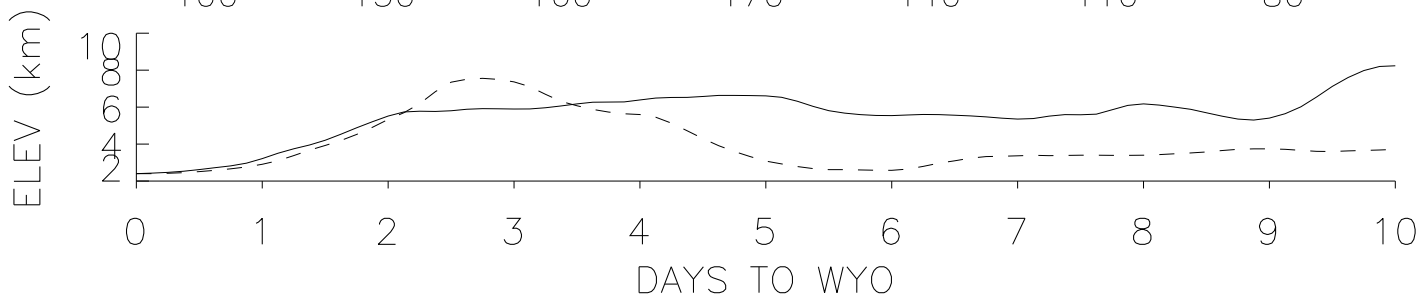
18UT

Day	km	hPa	C
0	2.4	769	−10
1	3.6	654	−19
2	5.1	520	−37
3	4.2	575	−27
4	3.5	634	−19
5	3.7	611	−22
6	4.5	532	−31
7	3.9	592	−22
8	3.2	662	−18
9	5.7	474	−38
10	6.6	421	−45

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/12/2006 (Day of Year 43)
NCEP/NCAR Reanalysis 1 Data Set





00UT

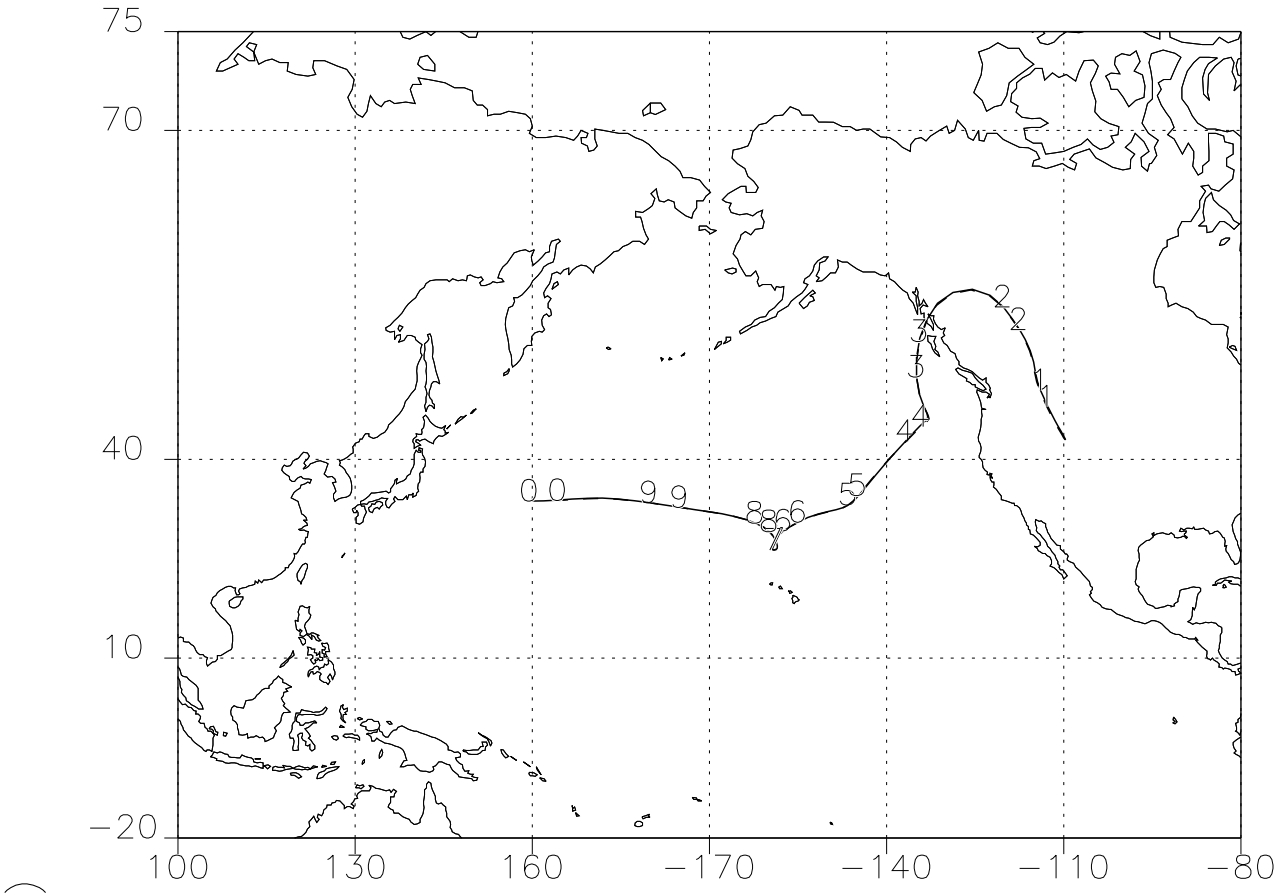
Day	km	hPa	C
0	2.4	769	−5
1	3.2	690	−14
2	5.5	492	−38
3	5.9	455	−43
4	6.4	413	−48
5	6.6	390	−49
6	5.5	459	−41
7	5.4	476	−37
8	6.2	426	−43
9	5.4	484	−34
10	8.2	323	−56

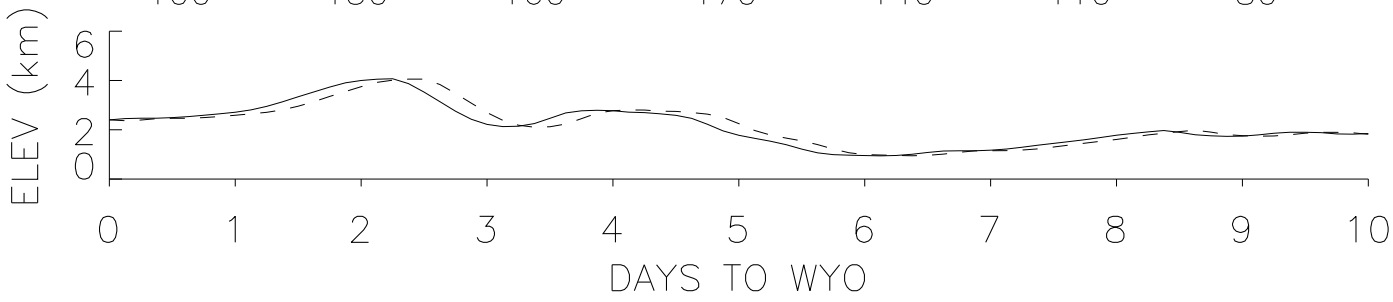
06UT

Day	km	hPa	C
0	2.4	770	−5
1	2.9	719	−8
2	5.3	512	−31
3	7.4	368	−51
4	5.6	482	−35
5	3.1	687	−14
6	2.6	731	−14
7	3.4	653	−28
8	3.4	648	−29
9	3.7	620	−31
10	3.7	622	−32

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/12/2006 (Day of Year 43)
NCEP/NCAR Reanalysis 1 Data Set





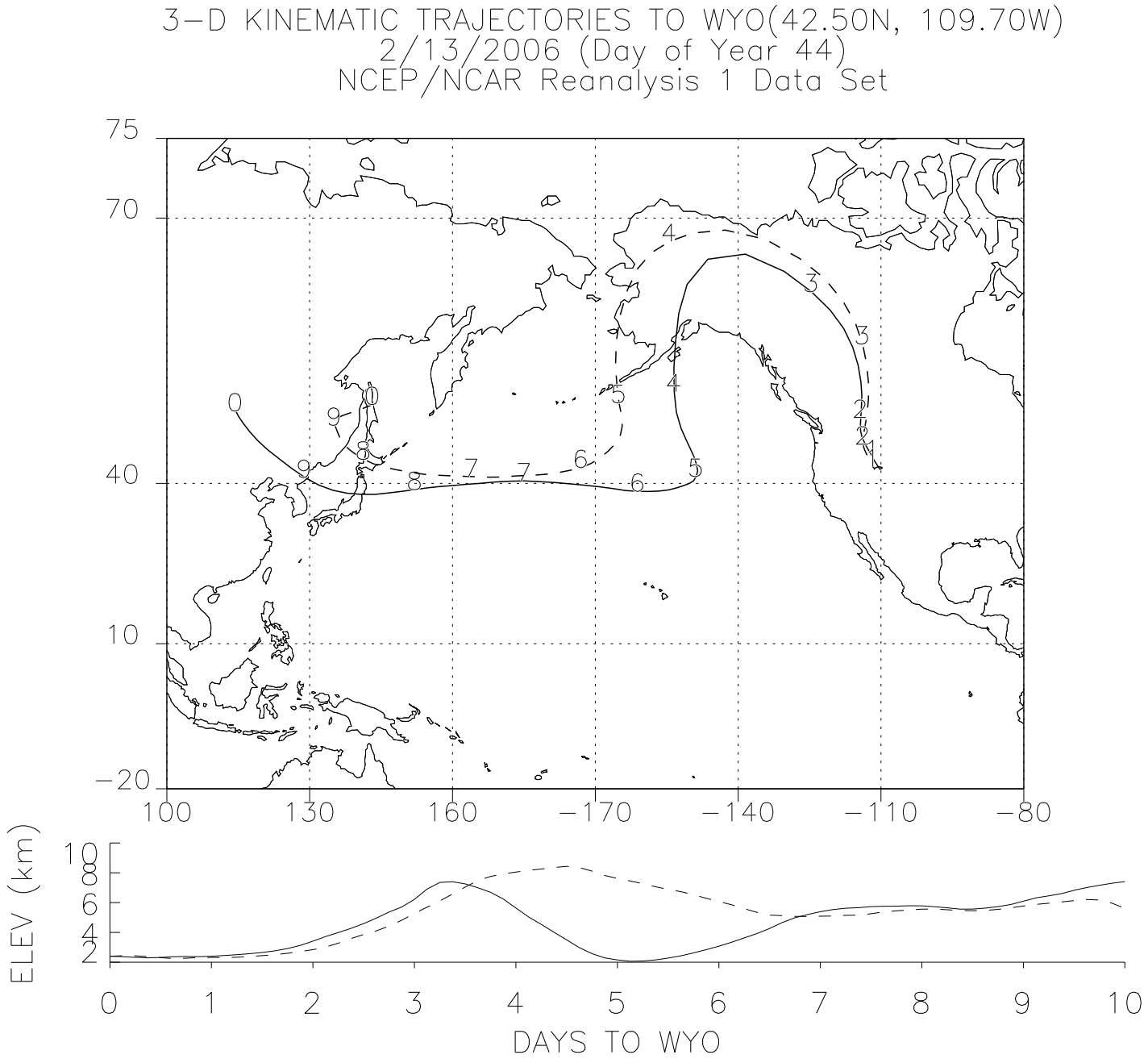
12UT

Day	km	hPa	C
0	2.4	769	−6
1	2.7	737	−5
2	4.0	623	−14
3	2.2	784	1
4	2.8	730	−2
5	1.8	825	7
6	1.0	913	12
7	1.2	891	10
8	1.8	822	4
9	1.7	821	1
10	1.8	813	2

18UT

Day	km	hPa	C
0	2.4	770	−5
1	2.6	750	−5
2	3.7	646	−12
3	2.7	737	−2
4	2.8	731	−3
5	2.2	778	3
6	1.0	907	12
7	1.2	893	10
8	1.6	842	6
9	1.8	820	2
10	1.8	814	2

12UT – solid
18UT – dashed



00UT

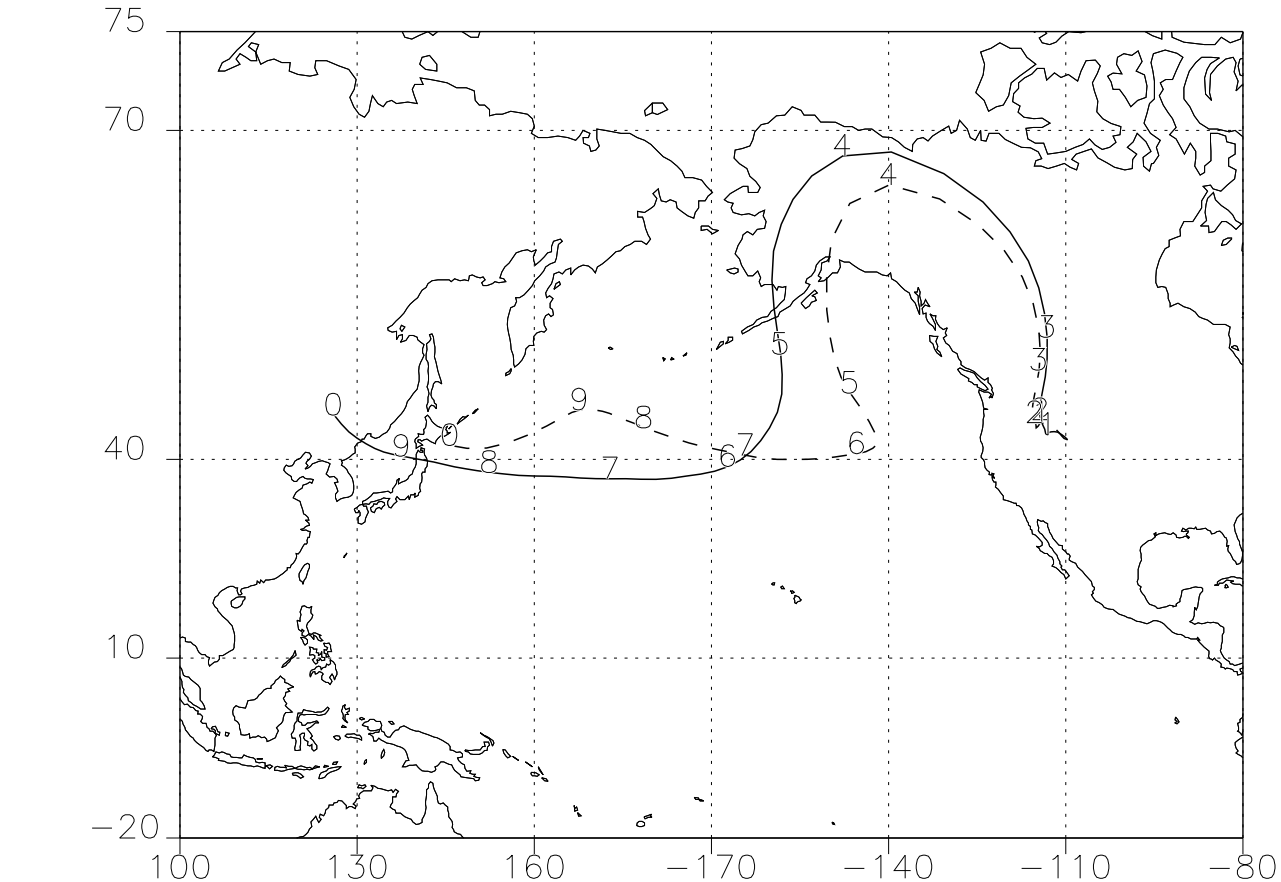
Day	km	hPa	C
0	2.4	768	−1
1	2.4	770	−4
2	3.4	673	−11
3	6.2	449	−38
4	5.6	479	−34
5	2.2	778	−6
6	3.1	686	−14
7	5.4	491	−39
8	5.8	460	−42
9	6.1	443	−43
10	7.4	365	−55

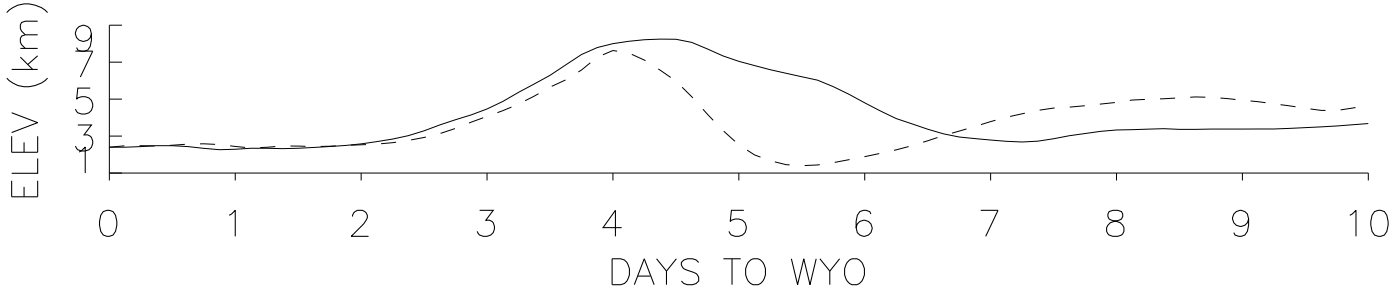
06UT

Day	km	hPa	C
0	2.4	765	−5
1	2.3	779	−5
2	2.8	726	−8
3	5.3	514	−32
4	8.0	327	−59
5	7.6	345	−57
6	6.1	441	−46
7	5.1	510	−37
8	5.6	474	−41
9	5.8	459	−42
10	5.6	465	−39

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/13/2006 (Day of Year 44)
NCEP/NCAR Reanalysis 1 Data Set





12UT

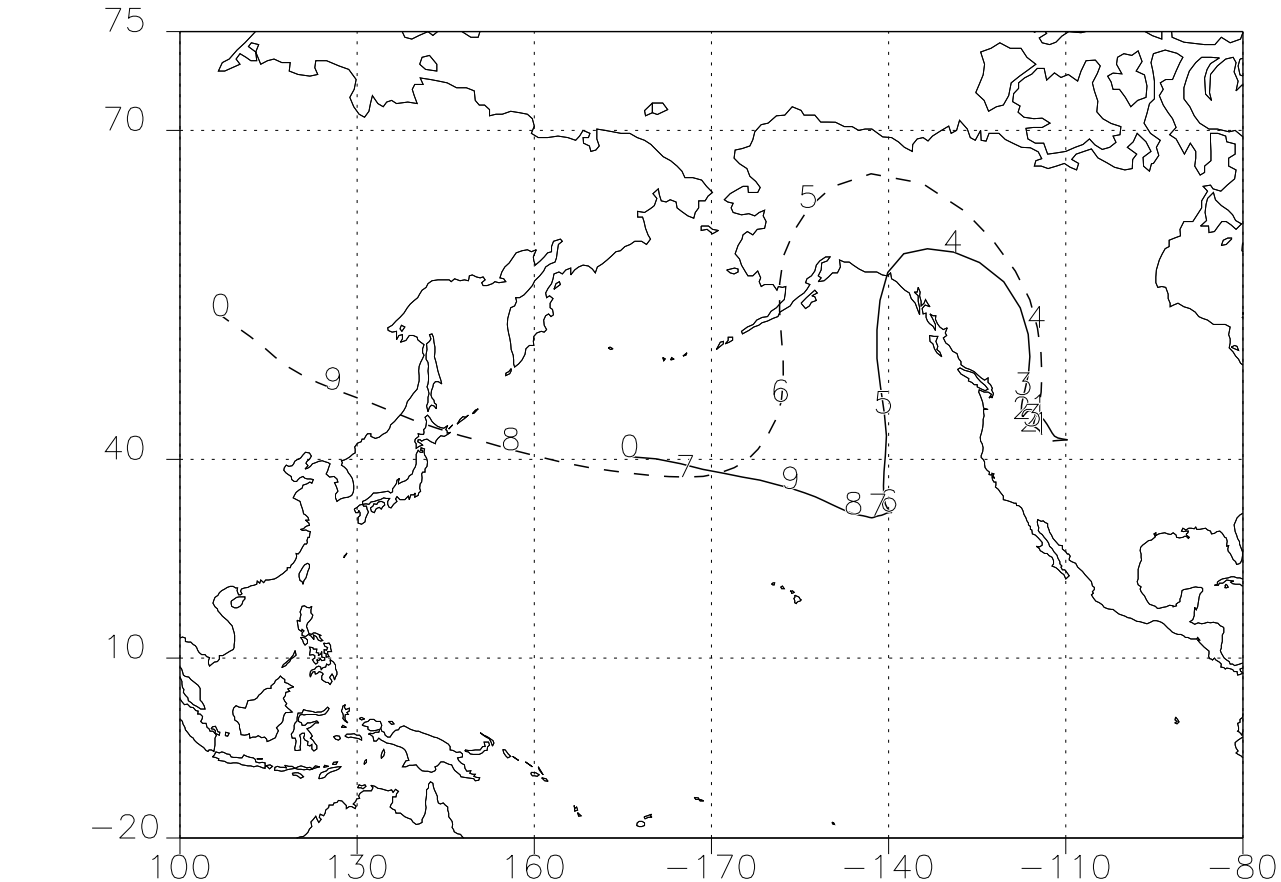
Day	km	hPa	C
0	2.4	765	−6
1	2.3	780	−6
2	2.6	751	−6
3	4.5	580	−22
4	8.0	334	−58
5	7.0	382	−51
6	4.8	539	−32
7	2.8	710	−15
8	3.3	656	−26
9	3.4	649	−30
10	3.7	626	−30

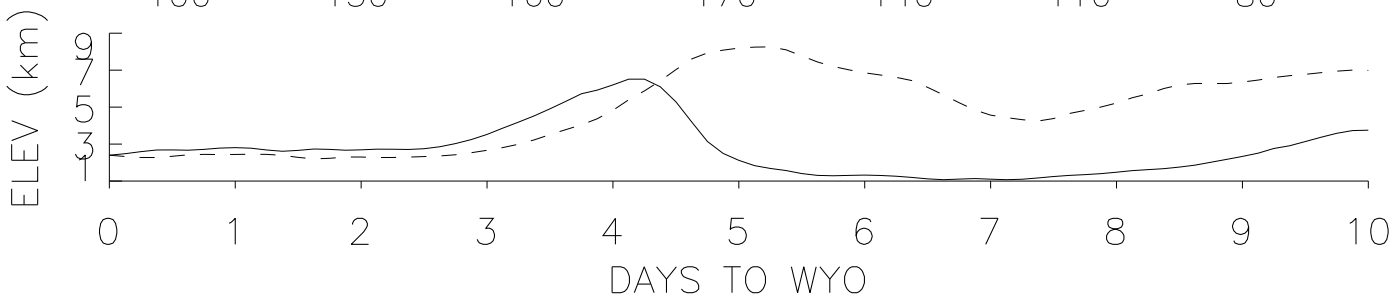
18UT

Day	km	hPa	C
0	2.4	766	−5
1	2.4	766	−5
2	2.5	758	−4
3	4.1	619	−15
4	7.6	362	−49
5	2.5	737	−8
6	1.9	807	−4
7	3.8	618	−23
8	4.8	523	−36
9	4.9	506	−40
10	4.7	532	−39

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/14/2006 (Day of Year 45)
NCEP/NCAR Reanalysis 1 Data Set





00UT

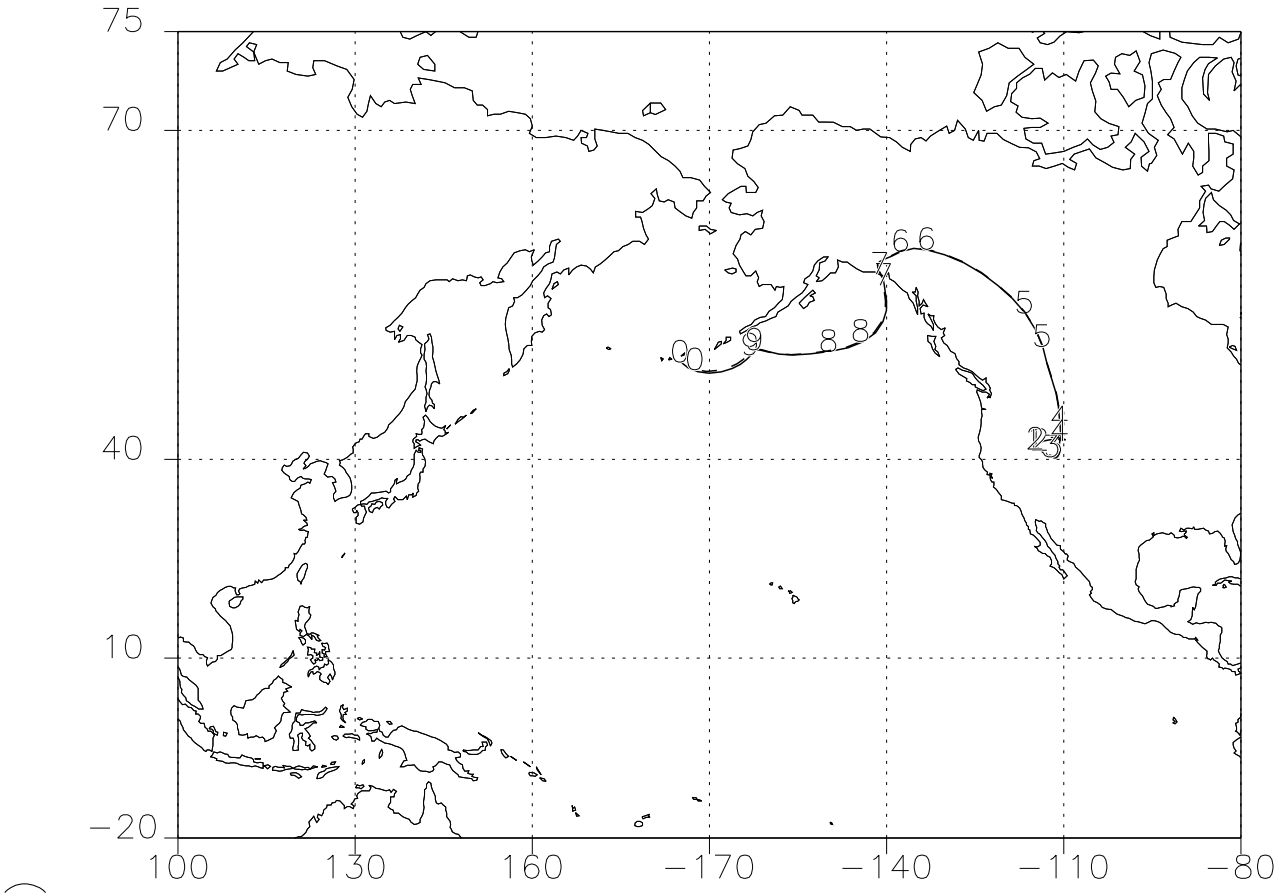
Day	km	hPa	C
0	2.4	761	0
1	2.8	729	−4
2	2.7	743	−1
3	3.5	666	−7
4	6.2	456	−32
5	2.1	783	1
6	1.3	875	10
7	1.1	898	9
8	1.5	855	8
9	2.3	762	−1
10	3.8	625	−14

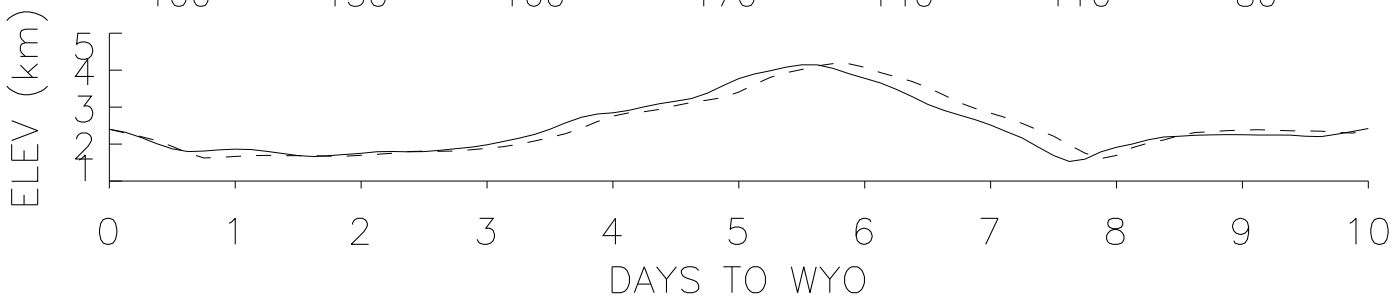
06UT

Day	km	hPa	C
0	2.4	759	−3
1	2.4	763	−5
2	2.3	780	−2
3	2.7	744	−6
4	4.8	550	−26
5	8.2	323	−61
6	6.9	395	−48
7	4.6	558	−29
8	5.2	501	−37
9	6.4	423	−48
10	7.0	387	−51

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/14/2006 (Day of Year 45)
NCEP/NCAR Reanalysis 1 Data Set





12UT

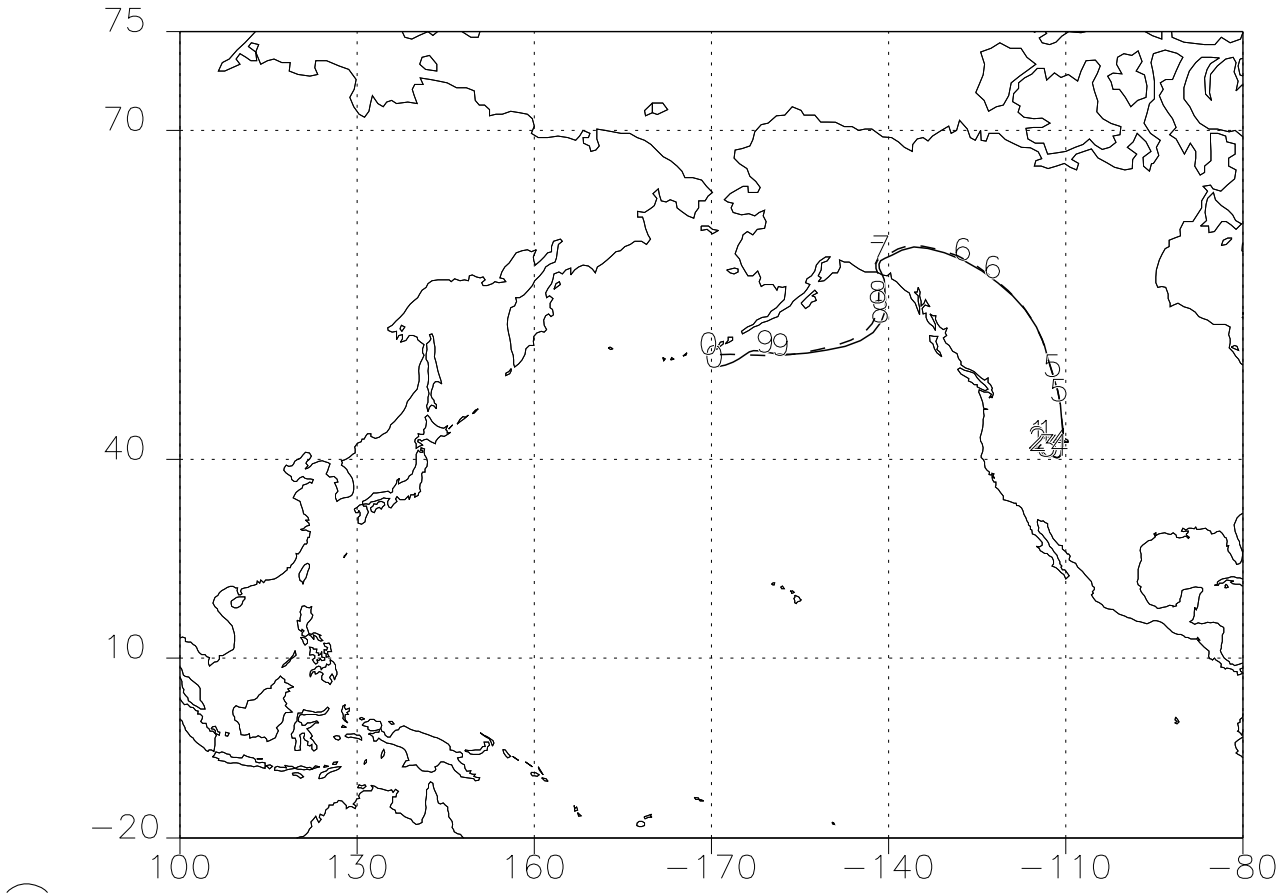
Day	km	hPa	C
0	2.4	754	−5
1	1.9	822	−6
2	1.8	836	−7
3	2.0	812	−12
4	2.8	722	−17
5	3.8	630	−23
6	3.8	613	−26
7	2.5	722	−14
8	1.9	767	−12
9	2.3	727	−14
10	2.4	716	−17

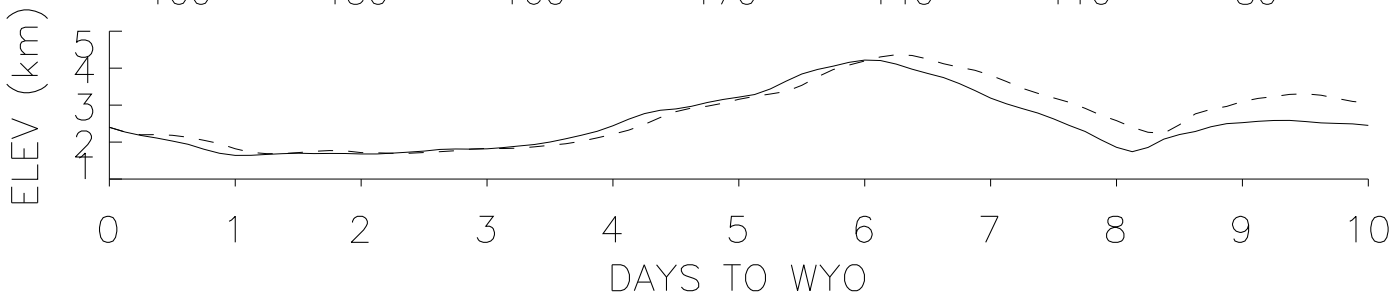
18UT

Day	km	hPa	C
0	2.4	754	−7
1	1.7	842	−4
2	1.7	842	−6
3	1.9	823	−9
4	2.8	732	−16
5	3.4	666	−22
6	4.1	593	−27
7	2.8	689	−15
8	1.7	799	−8
9	2.4	714	−14
10	2.4	720	−16

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/15/2006 (Day of Year 46)
NCEP/NCAR Reanalysis 1 Data Set





00UT

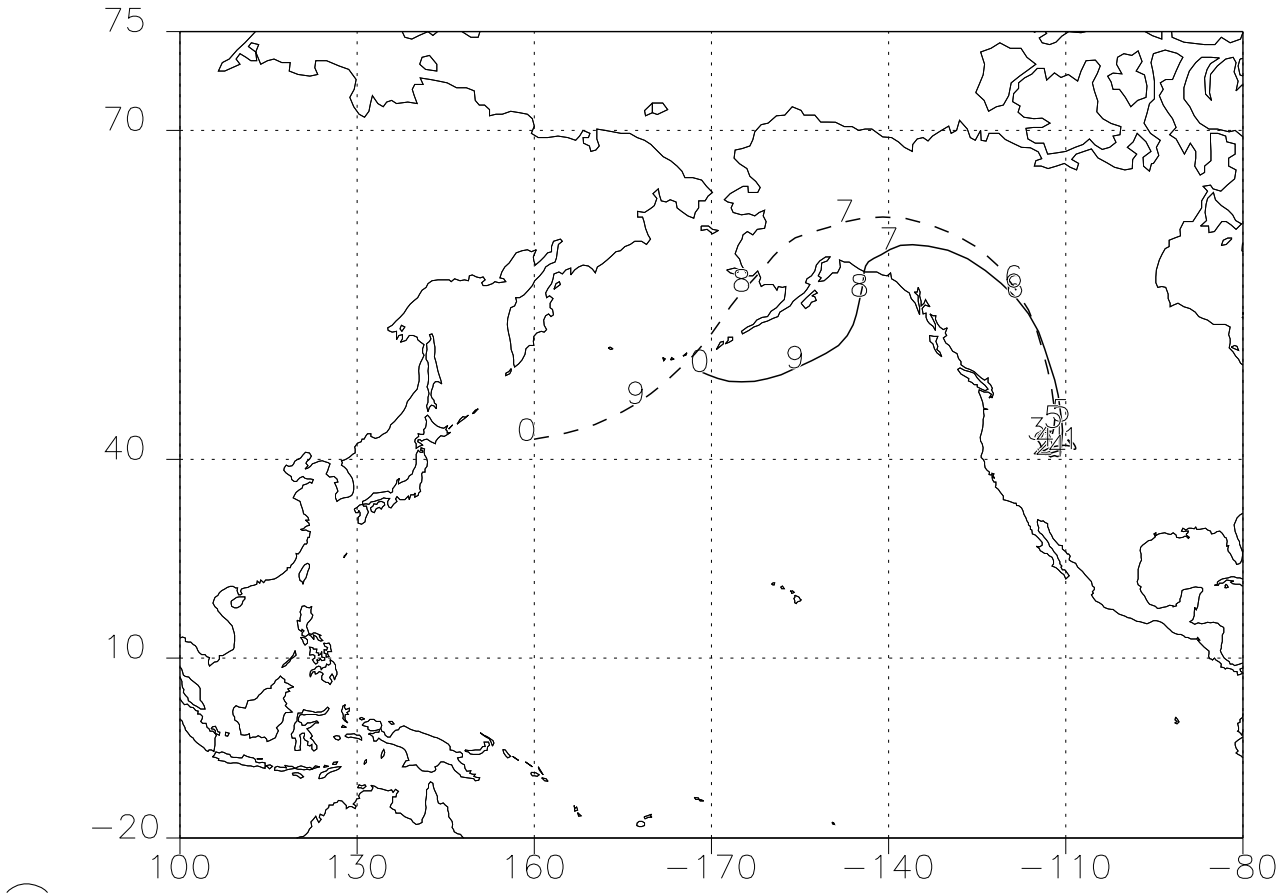
Day	km	hPa	C
0	2.4	753	−7
1	1.6	839	3
2	1.7	842	2
3	1.8	829	0
4	2.4	763	−10
5	3.2	685	−20
6	4.2	586	−28
7	3.2	656	−20
8	1.9	788	−10
9	2.5	701	−17
10	2.5	710	−15

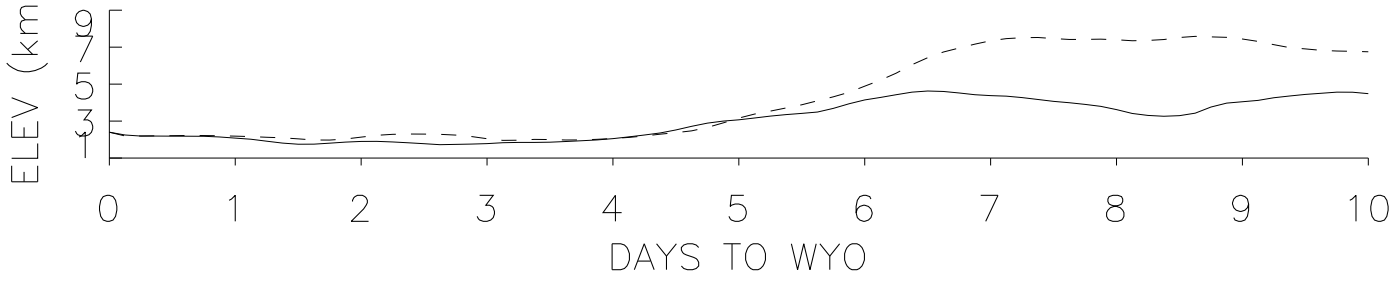
06UT

Day	km	hPa	C
0	2.4	752	−10
1	1.8	818	−2
2	1.7	837	−3
3	1.8	829	−5
4	2.2	788	−10
5	3.2	692	−19
6	4.2	591	−27
7	3.8	606	−24
8	2.6	717	−15
9	3.1	653	−18
10	3.1	652	−19

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/15/2006 (Day of Year 46)
NCEP/NCAR Reanalysis 1 Data Set





12UT

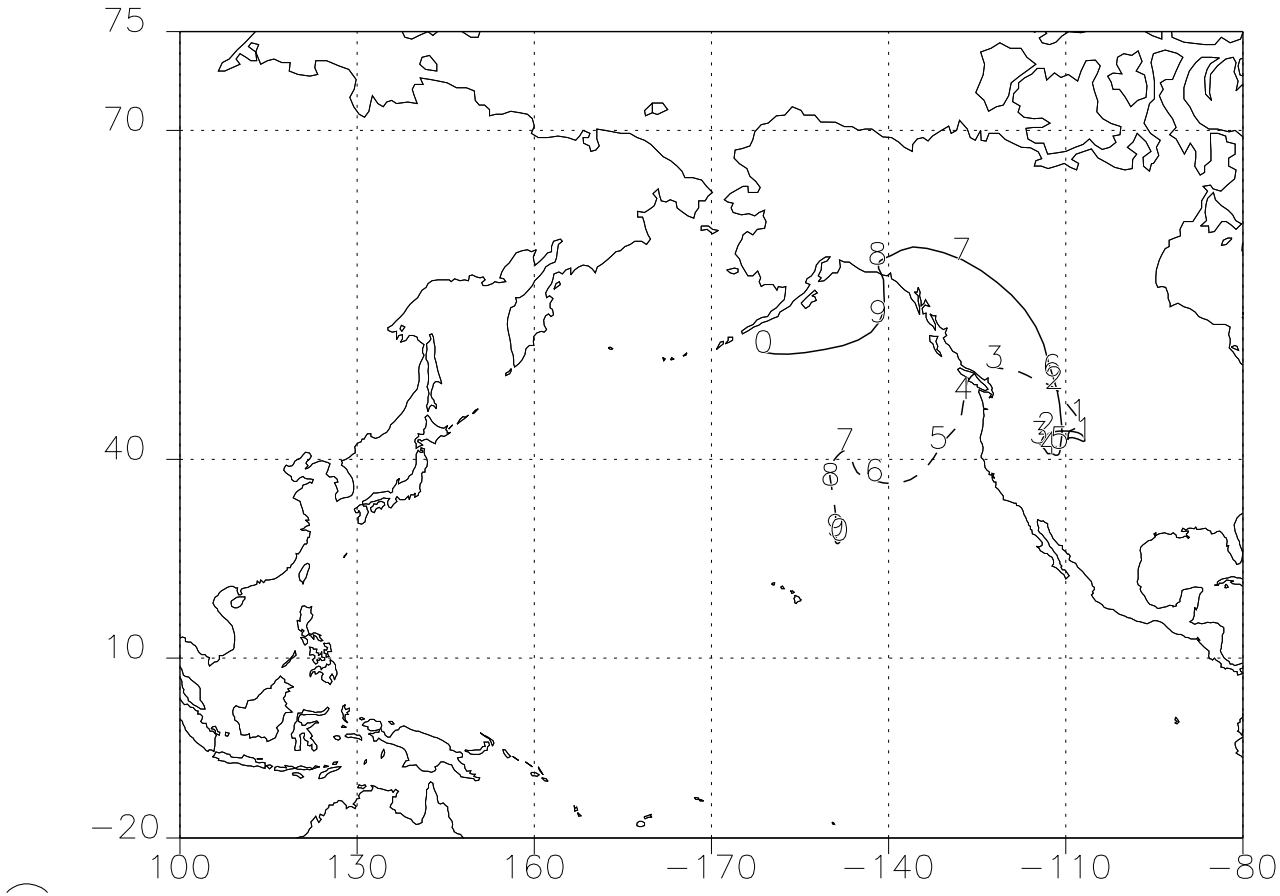
Day	km	hPa	C
0	2.4	749	−11
1	2.1	787	−4
2	1.9	818	−6
3	1.8	833	−7
4	2.1	805	−12
5	3.1	701	−19
6	4.1	599	−26
7	4.4	564	−30
8	3.6	621	−23
9	4.0	578	−28
10	4.5	538	−33

18UT

Day	km	hPa	C
0	2.4	746	−11
1	2.2	775	−3
2	2.1	794	−4
3	2.0	806	−7
4	2.1	805	−8
5	3.2	694	−16
6	4.9	541	−31
7	7.3	363	−54
8	7.4	350	−56
9	7.4	350	−57
10	6.8	396	−50

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/16/2006 (Day of Year 47)
NCEP/NCAR Reanalysis 1 Data Set

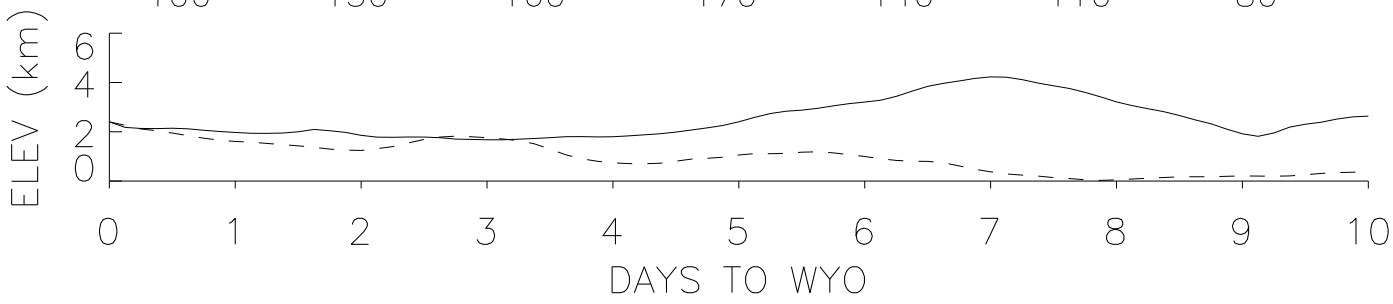


00UT

Day	km	hPa	C
0	2.4	748	−14
1	2.0	795	−4
2	1.9	815	1
3	1.7	843	0
4	1.8	831	0
5	2.4	767	−10
6	3.2	686	−20
7	4.2	585	−29
8	3.2	654	−20
9	1.9	781	−10
10	2.6	691	−18

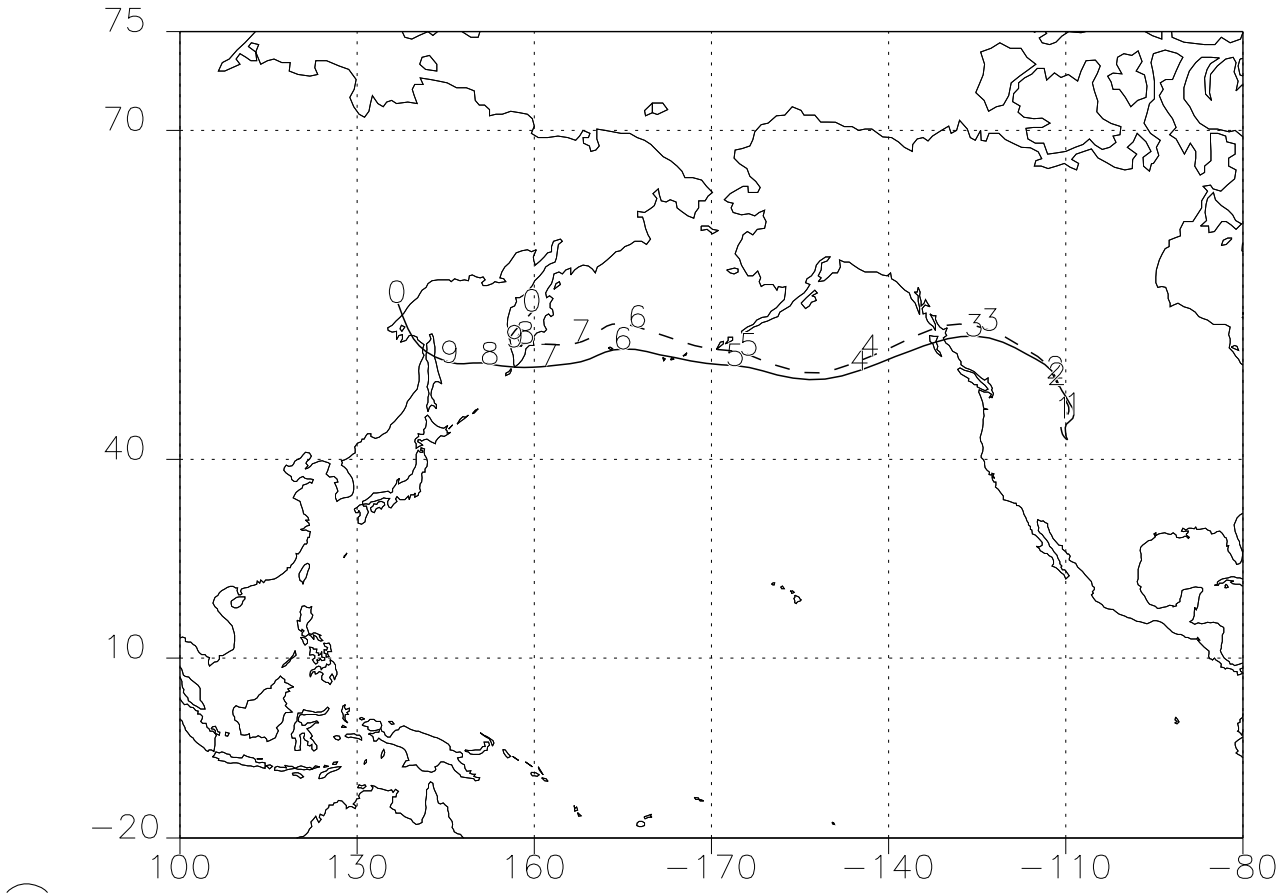
06UT

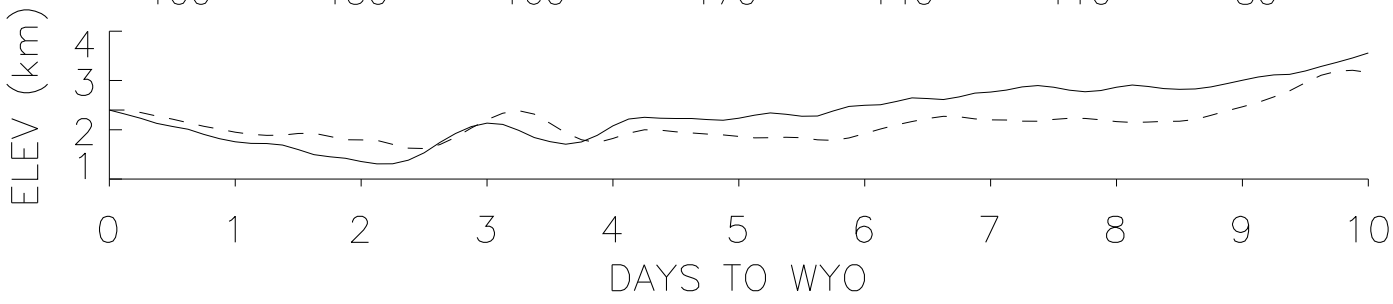
Day	km	hPa	C
0	2.4	751	−17
1	1.6	836	−10
2	1.2	870	−2
3	1.8	830	−3
4	0.7	942	8
5	1.1	898	5
6	1.0	892	6
7	0.4	959	9
8	0.0	1000	14
9	0.2	1000	16
10	0.4	979	13



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/16/2006 (Day of Year 47)
NCEP/NCAR Reanalysis 1 Data Set





12UT

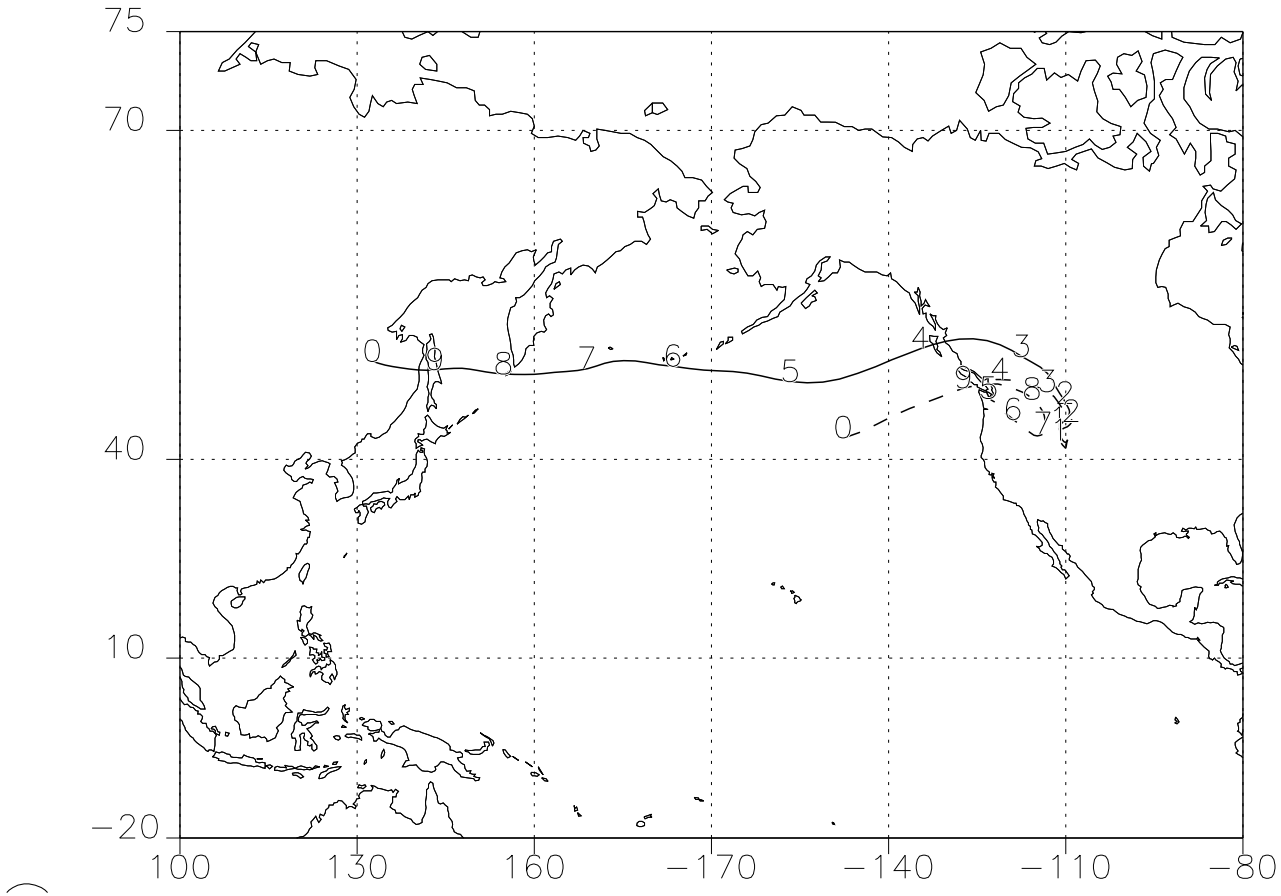
Day	km	hPa	C
0	2.4	753	−19
1	1.8	818	−13
2	1.4	858	−7
3	2.1	788	−11
4	2.1	781	−11
5	2.2	749	−15
6	2.5	715	−23
7	2.8	689	−28
8	2.9	682	−29
9	3.0	673	−29
10	3.6	623	−33

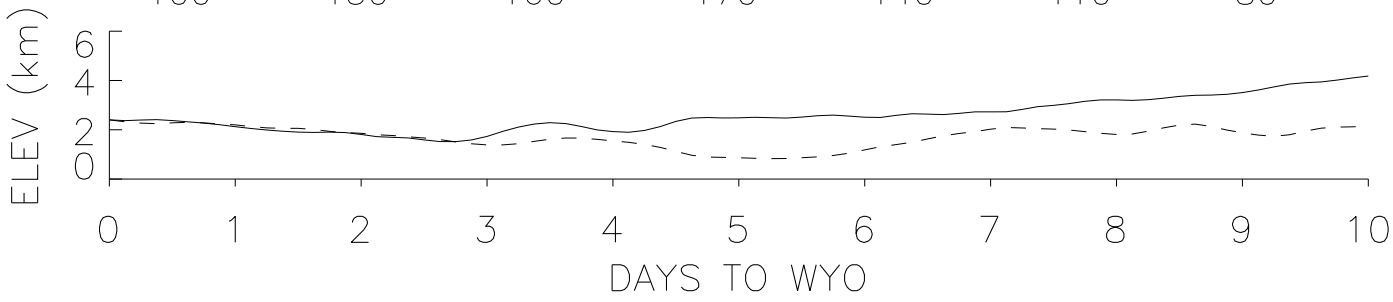
18UT

Day	km	hPa	C
0	2.4	756	−18
1	2.0	795	−15
2	1.8	814	−11
3	2.2	775	−14
4	1.8	810	−13
5	1.9	787	−13
6	1.9	769	−20
7	2.2	741	−25
8	2.2	748	−25
9	2.5	726	−25
10	3.2	645	−34

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/17/2006 (Day of Year 48)
NCEP/NCAR Reanalysis 1 Data Set





00UT

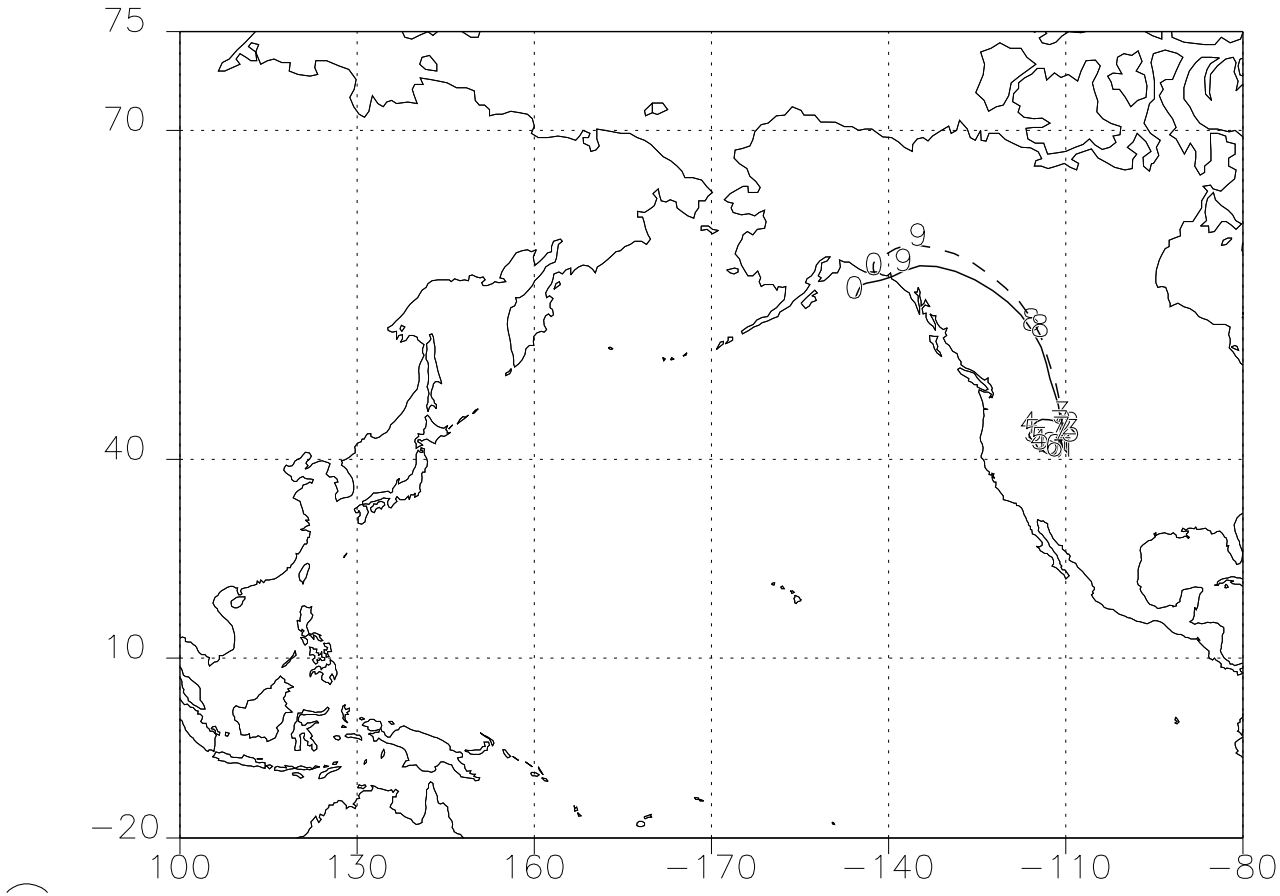
Day	km	hPa	C
0	2.4	757	−16
1	2.1	777	−15
2	1.8	813	−9
3	1.7	820	−7
4	1.9	810	−10
5	2.5	730	−15
6	2.5	718	−19
7	2.7	693	−25
8	3.2	650	−31
9	3.5	625	−33
10	4.2	574	−38

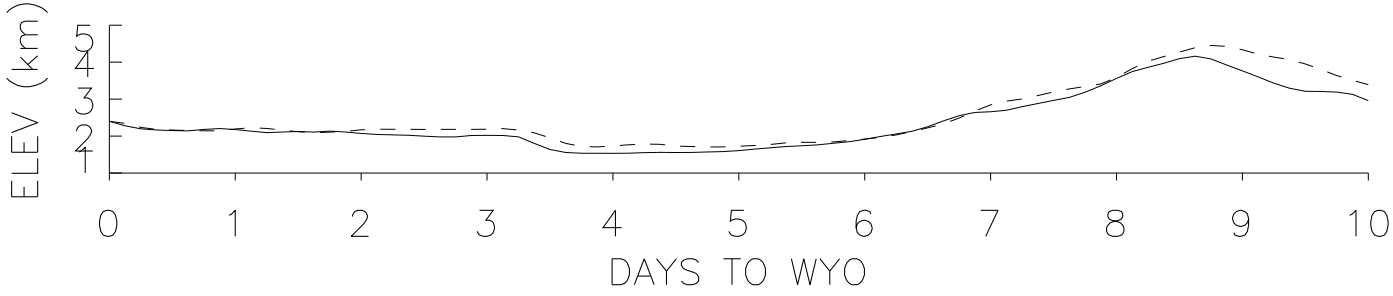
06UT

Day	km	hPa	C
0	2.4	757	−19
1	2.2	772	−16
2	1.9	809	−11
3	1.4	856	−3
4	1.5	853	−1
5	0.9	931	2
6	1.2	896	−2
7	2.0	803	−8
8	1.8	823	−4
9	1.9	812	−3
10	2.2	770	−6

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/17/2006 (Day of Year 48)
NCEP/NCAR Reanalysis 1 Data Set





12UT

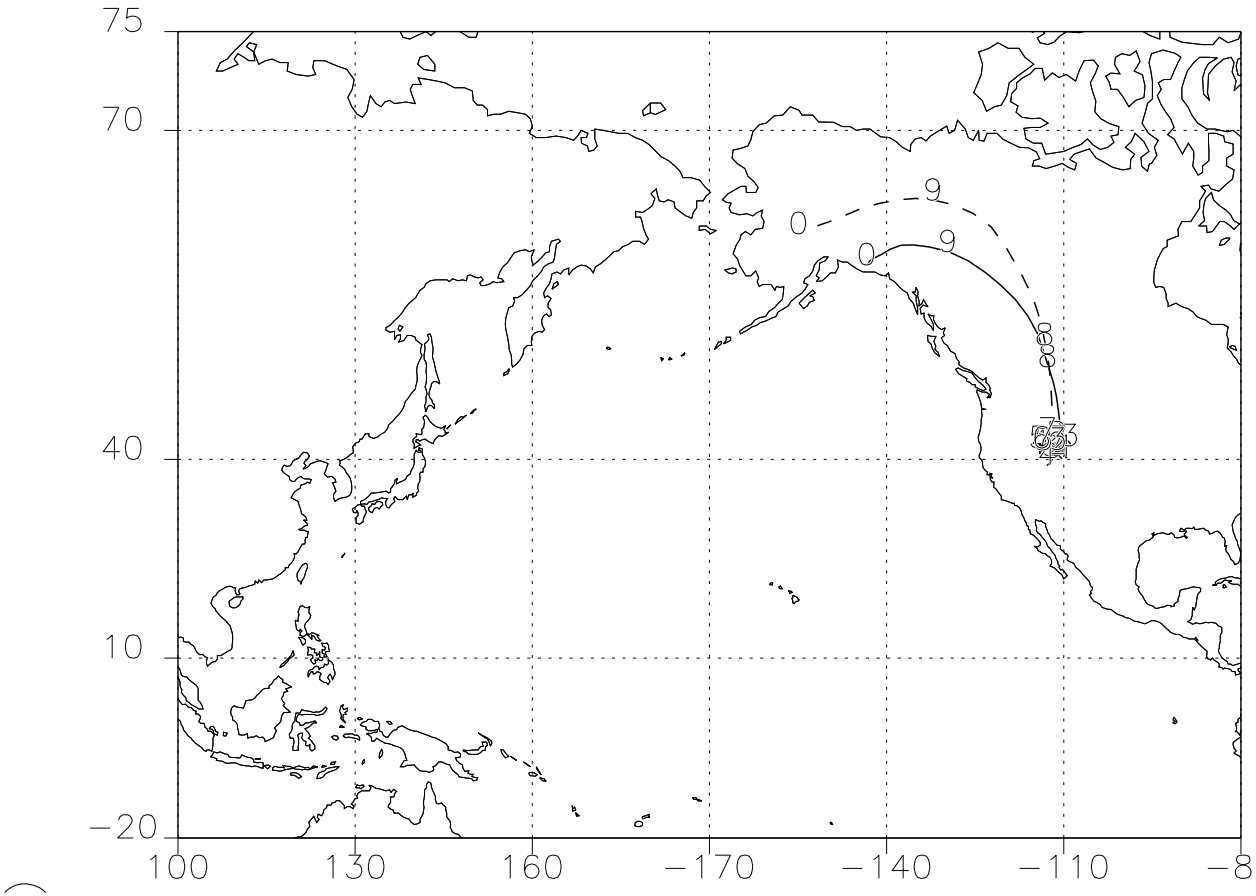
Day	km	hPa	C
0	2.4	757	−19
1	2.2	776	−16
2	2.1	783	−11
3	2.0	790	−5
4	1.5	857	−5
5	1.6	851	−8
6	1.9	819	−12
7	2.7	740	−15
8	3.6	649	−22
9	3.8	617	−25
10	3.0	679	−19

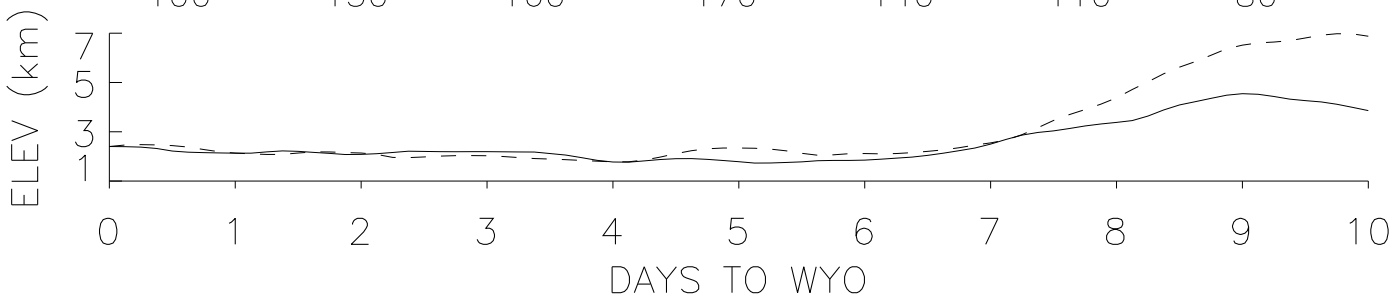
18UT

Day	km	hPa	C
0	2.4	757	−18
1	2.2	778	−14
2	2.2	769	−10
3	2.2	775	−5
4	1.7	835	−4
5	1.7	839	−6
6	1.9	820	−9
7	2.8	724	−17
8	3.6	649	−23
9	4.3	572	−30
10	3.4	640	−20

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/18/2006 (Day of Year 49)
NCEP/NCAR Reanalysis 1 Data Set





00UT

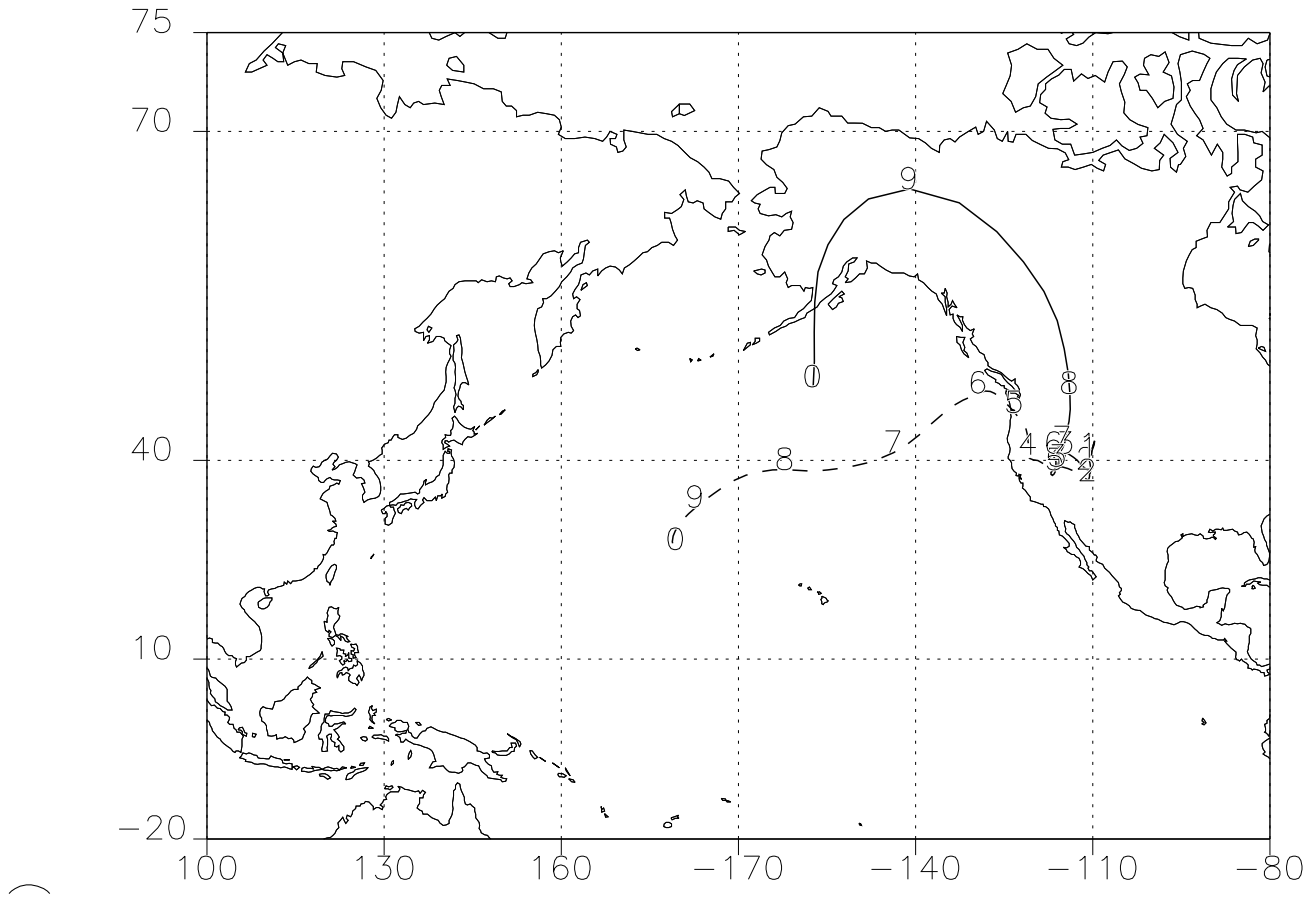
Day	km	hPa	C
0	2.4	756	−16
1	2.1	784	−10
2	2.1	780	−11
3	2.2	773	−4
4	1.8	826	3
5	1.8	831	1
6	1.8	826	−1
7	2.5	757	−11
8	3.4	670	−21
9	4.5	559	−32
10	3.9	599	−24

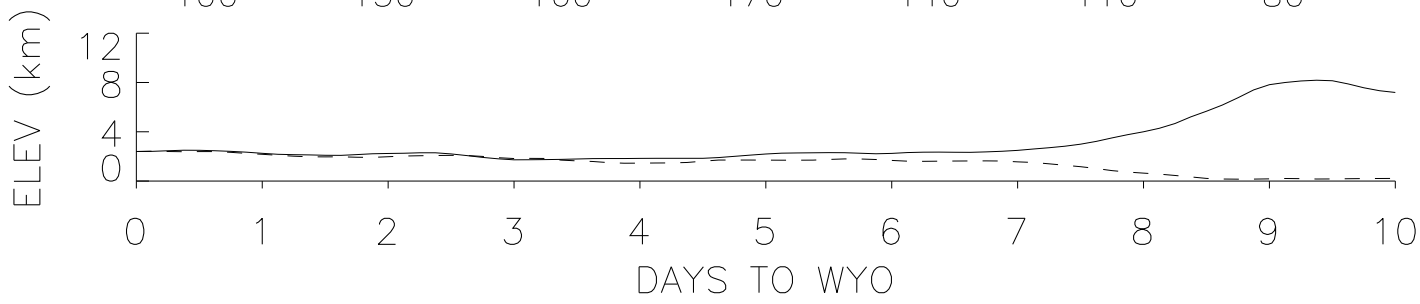
06UT

Day	km	hPa	C
0	2.4	757	−16
1	2.1	784	−13
2	2.1	777	−13
3	2.0	788	−6
4	1.8	824	1
5	2.3	773	−4
6	2.1	799	−4
7	2.5	754	−11
8	4.4	584	−27
9	6.5	417	−49
10	6.9	384	−52

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/18/2006 (Day of Year 49)
NCEP/NCAR Reanalysis 1 Data Set





12UT

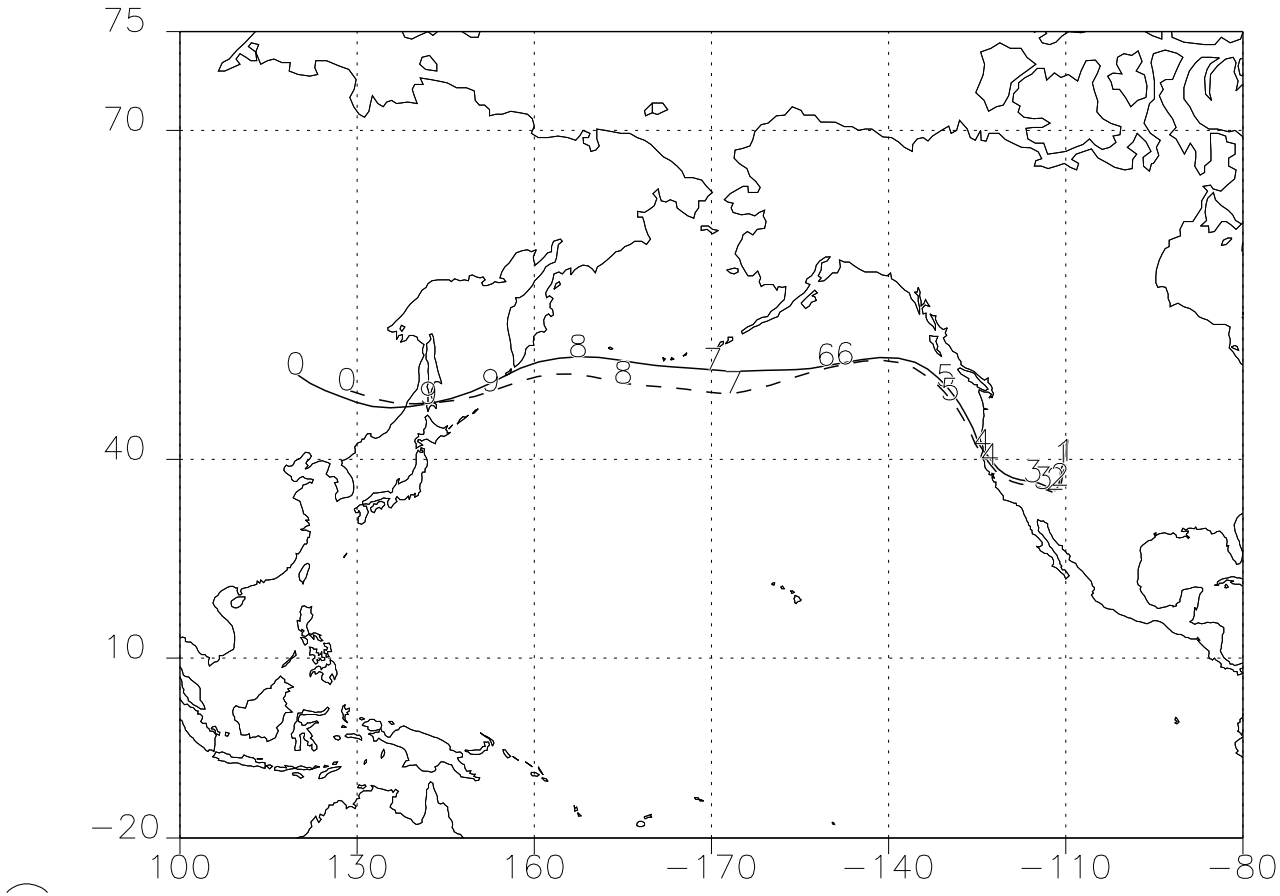
Day	km	hPa	C
0	2.4	756	−16
1	2.3	771	−12
2	2.2	770	−13
3	1.7	815	−7
4	1.8	813	2
5	2.2	787	1
6	2.2	784	−3
7	2.5	759	−6
8	4.0	621	−18
9	7.8	347	−54
10	7.2	374	−50

18UT

Day	km	hPa	C
0	2.4	756	−14
1	2.2	779	−9
2	2.0	800	−7
3	1.8	805	−6
4	1.5	852	1
5	1.7	837	−1
6	1.7	841	1
7	1.6	836	2
8	0.6	922	8
9	0.2	993	16
10	0.2	1000	15

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/19/2006 (Day of Year 50)
NCEP/NCAR Reanalysis 1 Data Set

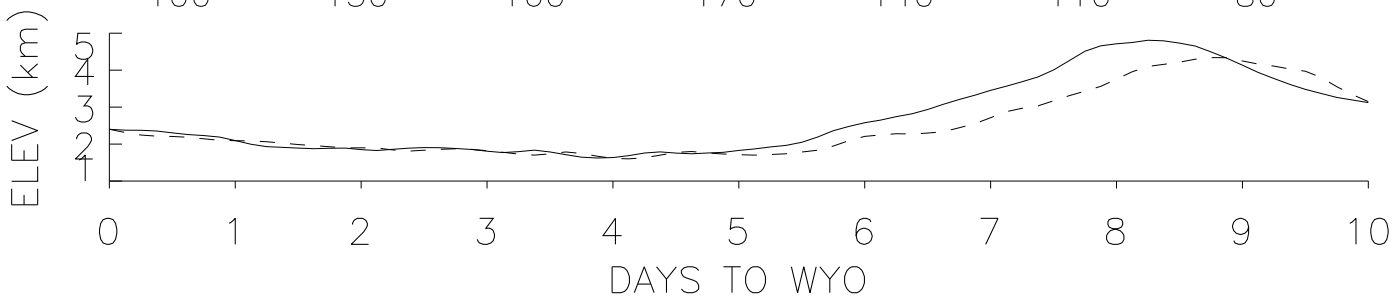


00UT

Day	km	hPa	C
0	2.4	754	−10
1	2.1	785	−3
2	1.9	811	1
3	1.8	811	−1
4	1.6	831	−3
5	1.8	825	−9
6	2.6	740	−15
7	3.5	643	−23
8	4.7	526	−41
9	4.1	569	−36
10	3.1	667	−24

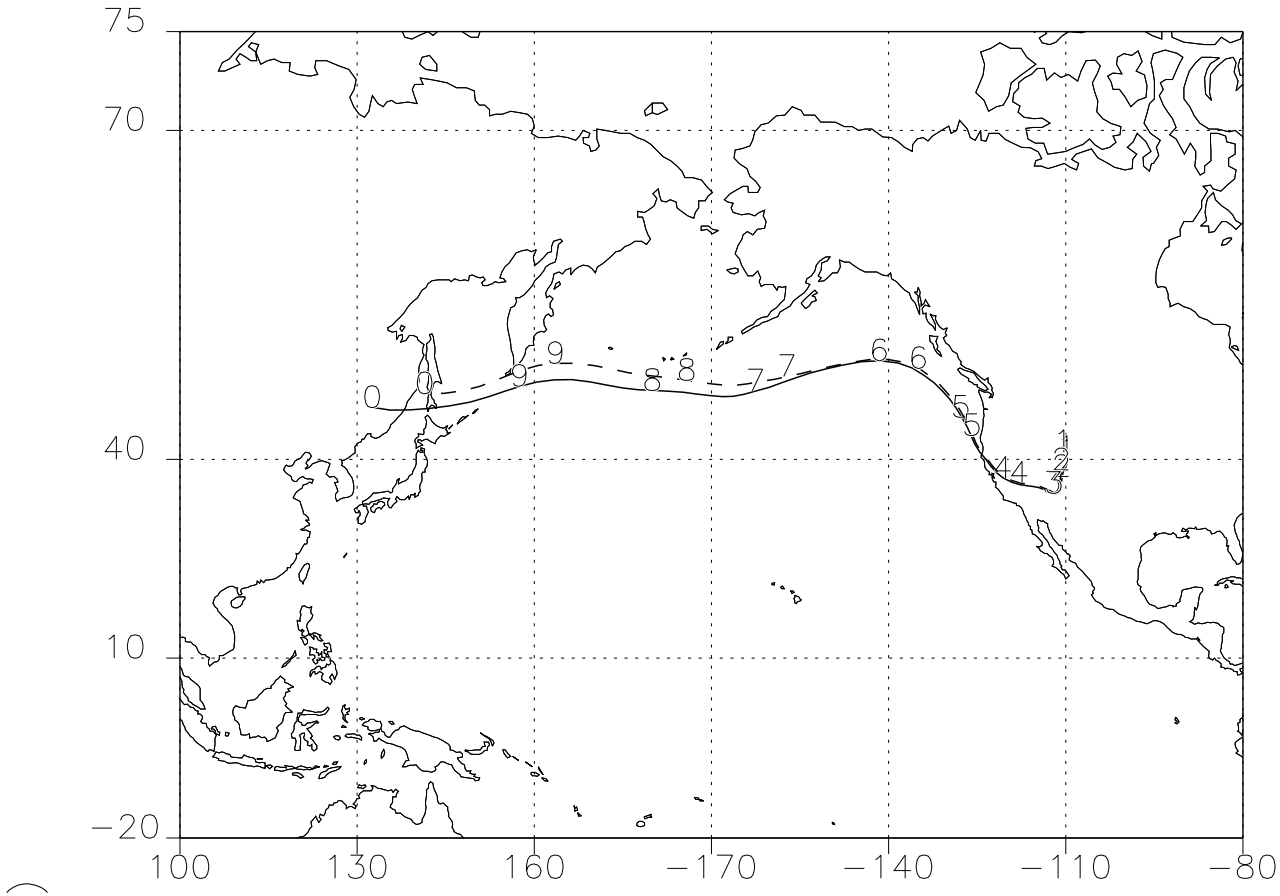
06UT

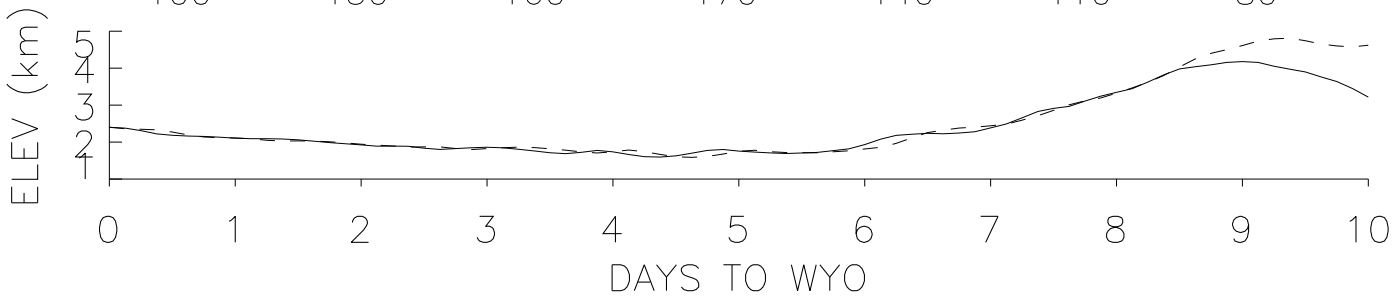
Day	km	hPa	C
0	2.4	755	−13
1	2.1	787	−8
2	1.9	807	−2
3	1.8	812	−2
4	1.6	832	−4
5	1.7	835	−9
6	2.2	782	−12
7	2.7	719	−16
8	3.8	611	−27
9	4.2	561	−38
10	3.1	659	−26



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/19/2006 (Day of Year 50)
NCEP/NCAR Reanalysis 1 Data Set





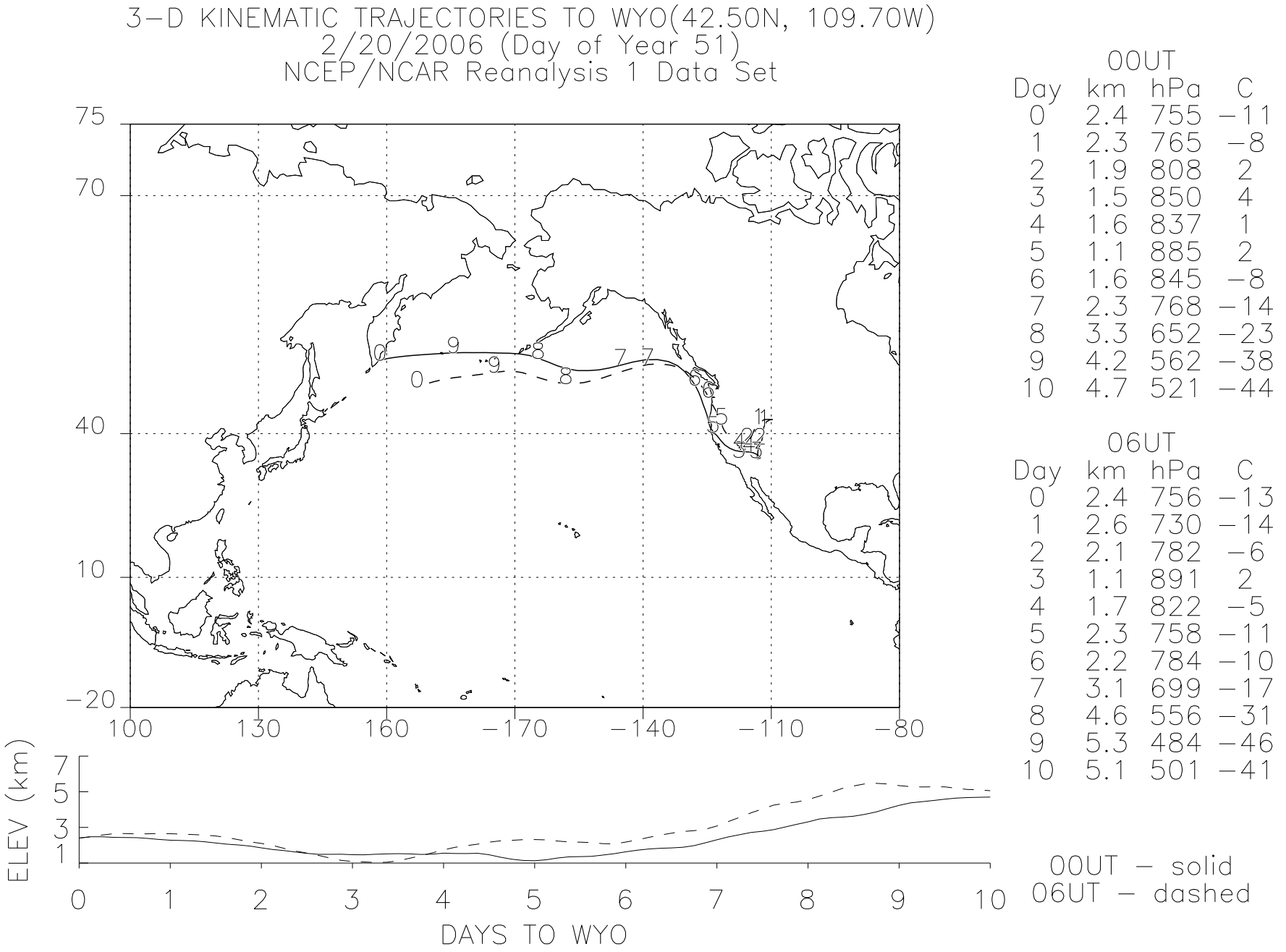
12UT

Day	km	hPa	C
0	2.4	755	−14
1	2.1	786	−10
2	1.9	804	−3
3	1.9	809	−3
4	1.7	818	−5
5	1.8	826	−8
6	1.9	815	−10
7	2.4	753	−14
8	3.3	652	−22
9	4.2	570	−37
10	3.2	654	−28

18UT

Day	km	hPa	C
0	2.4	756	−12
1	2.1	784	−9
2	1.9	802	−3
3	1.8	816	−2
4	1.7	817	−4
5	1.8	824	−6
6	1.8	828	−11
7	2.4	749	−14
8	3.3	654	−21
9	4.6	533	−41
10	4.6	528	−41

12UT – solid
18UT – dashed



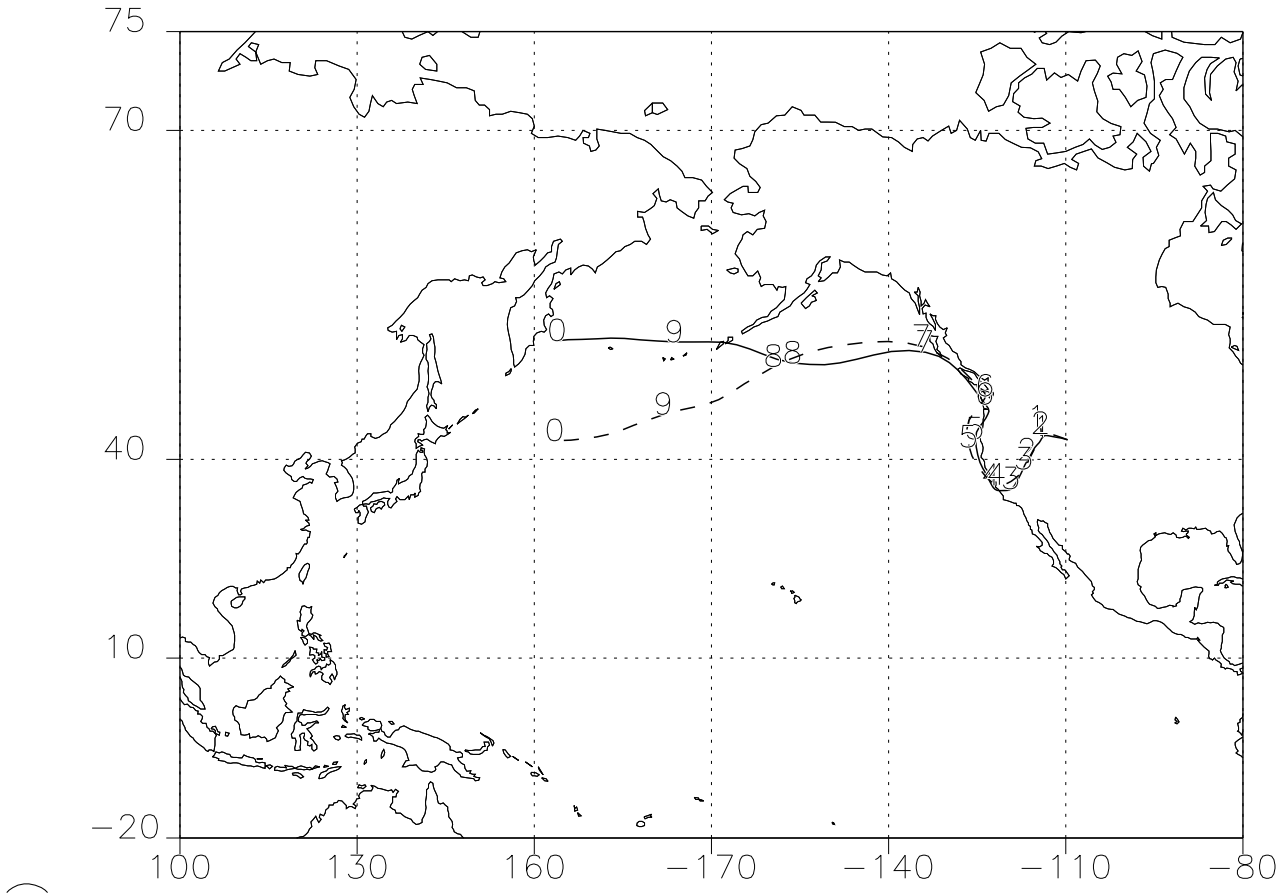
00UT

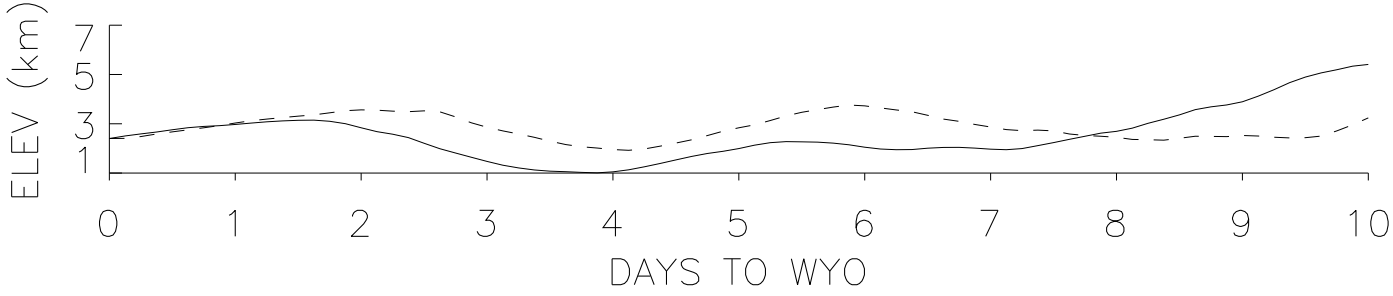
Day	km	hPa	C
0	2.4	755	-11
1	2.3	765	-8
2	1.9	808	2
3	1.5	850	4
4	1.6	837	1
5	1.1	885	2
6	1.6	845	-8
7	2.3	768	-14
8	3.3	652	-23
9	4.2	562	-38
10	4.7	521	-44

06UT

Day	km	hPa	C
0	2.4	756	-13
1	2.6	730	-14
2	2.1	782	-6
3	1.1	891	2
4	1.7	822	-5
5	2.3	758	-11
6	2.2	784	-10
7	3.1	699	-17
8	4.6	556	-31
9	5.3	484	-46
10	5.1	501	-41

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/20/2006 (Day of Year 51)
NCEP/NCAR Reanalysis 1 Data Set





12UT

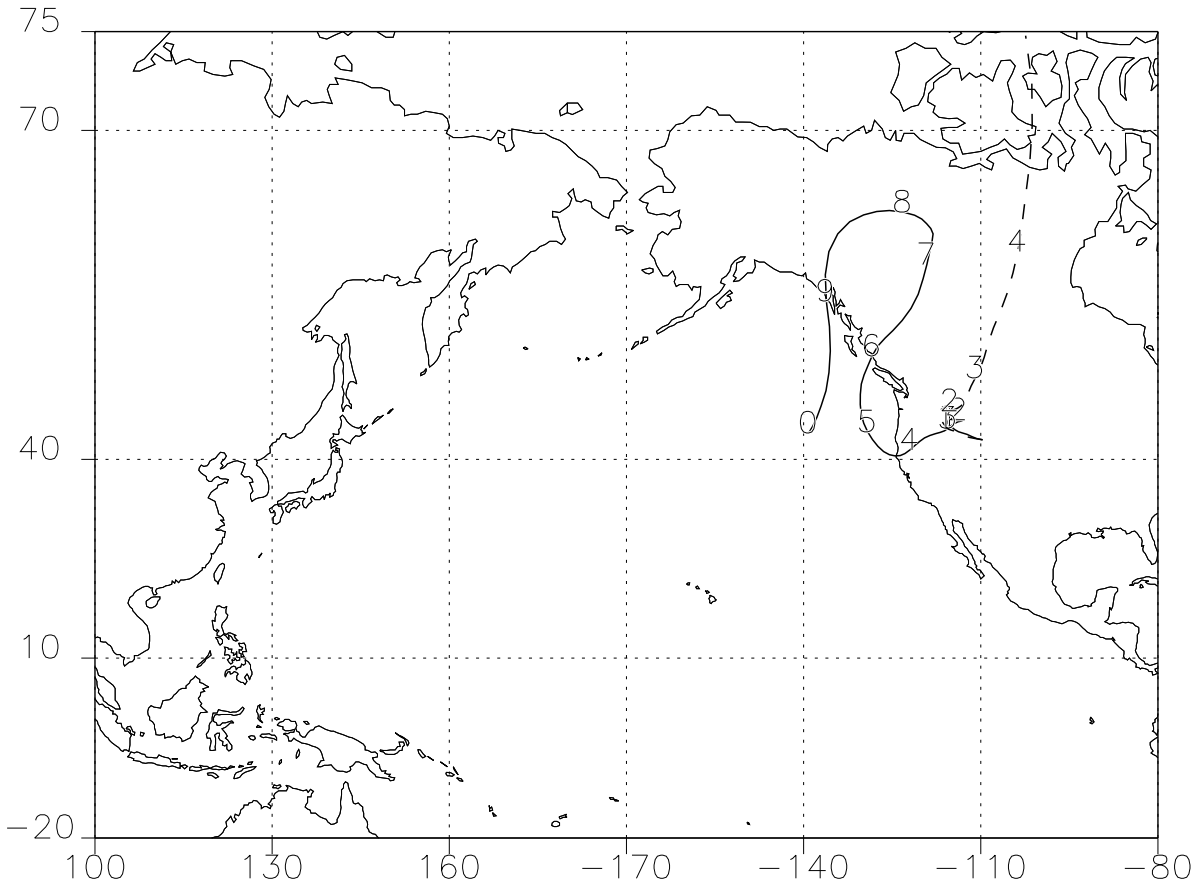
Day	km	hPa	C
0	2.4	757	−15
1	3.0	699	−17
2	2.8	710	−12
3	1.5	848	−2
4	1.0	898	0
5	2.0	794	−10
6	2.0	793	−11
7	2.0	808	−11
8	2.7	717	−16
9	3.9	594	−32
10	5.4	469	−48

18UT

Day	km	hPa	C
0	2.4	756	−12
1	3.0	696	−17
2	3.6	646	−19
3	2.9	710	−12
4	2.0	802	−5
5	2.8	714	−14
6	3.7	632	−27
7	2.9	717	−16
8	2.5	745	−13
9	2.5	734	−14
10	3.2	667	−20

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/21/2006 (Day of Year 52)
NCEP/NCAR Reanalysis 1 Data Set

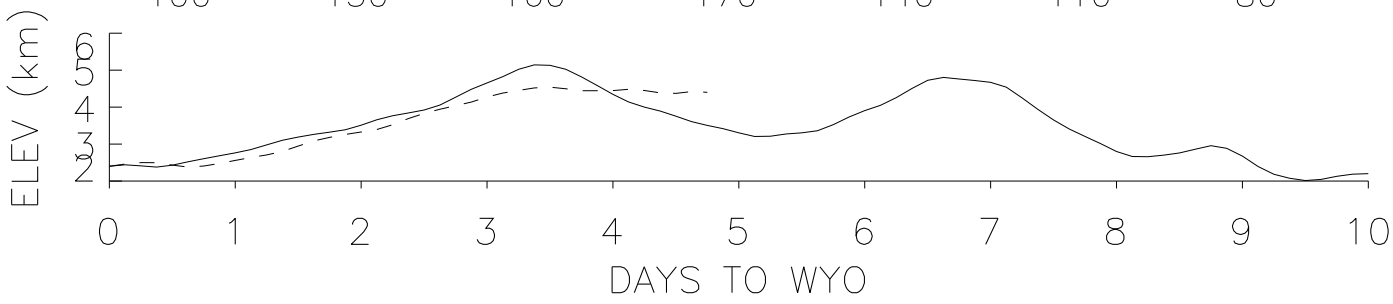


00UT

Day	km	hPa	C
0	2.4	755	−11
1	2.8	721	−14
2	3.5	650	−20
3	4.7	555	−30
4	4.3	580	−26
5	3.3	672	−16
6	3.9	622	−19
7	4.7	548	−25
8	2.8	709	−6
9	2.7	726	−7
10	2.2	765	−1

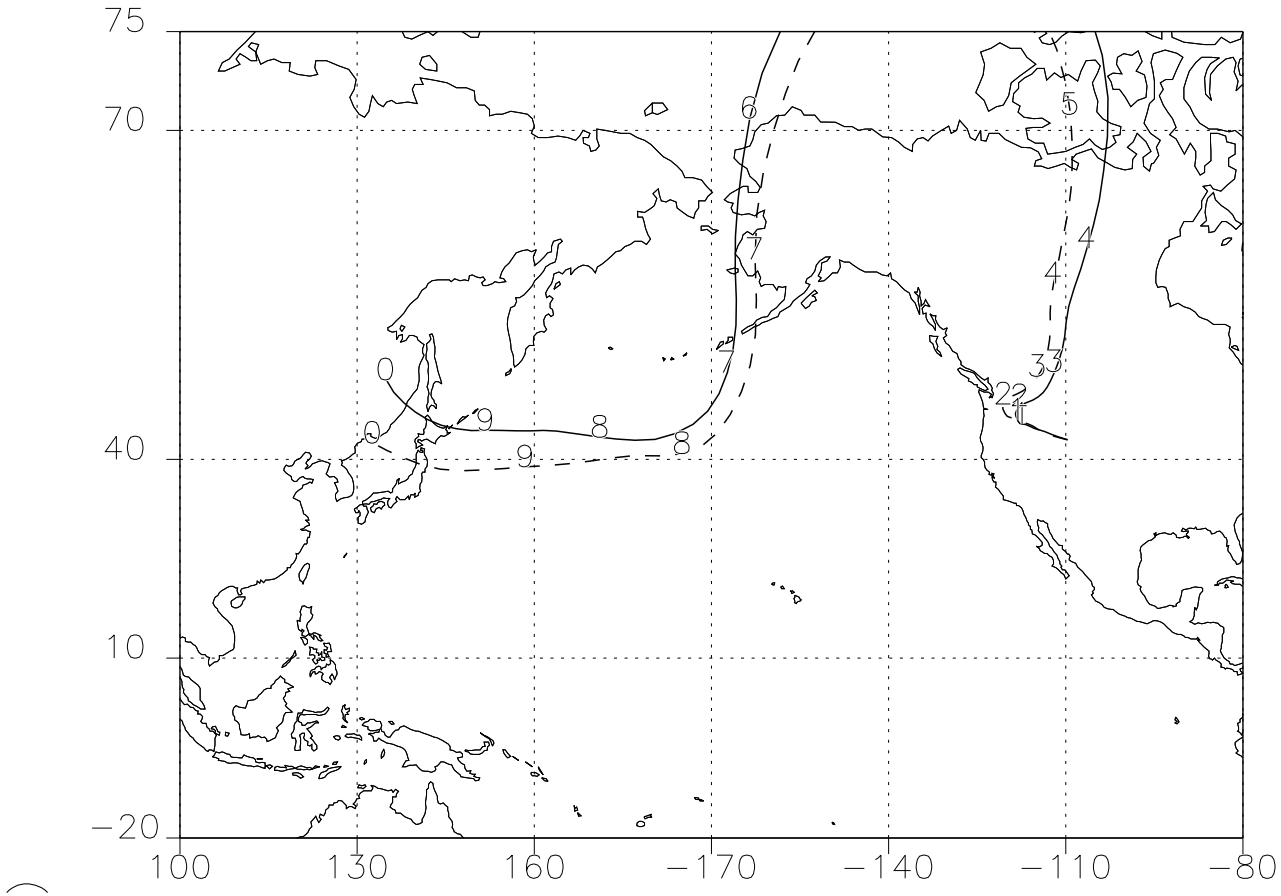
06UT

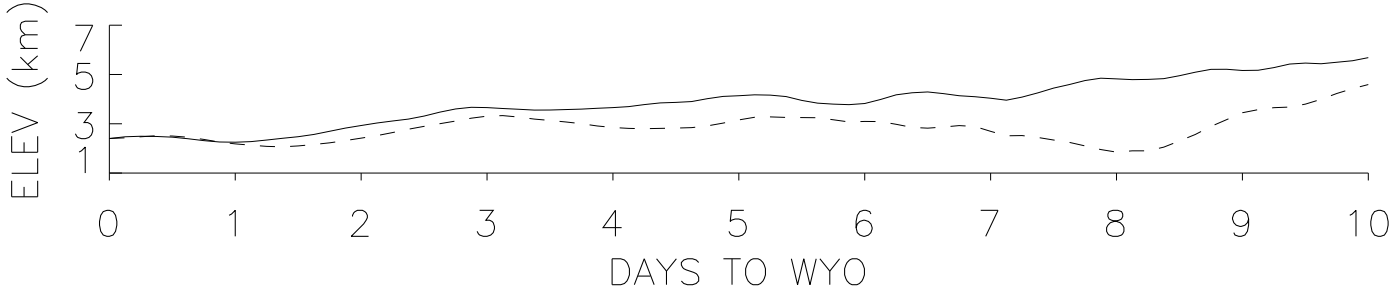
Day	km	hPa	C
0	2.4	755	−13
1	2.6	741	−14
2	3.3	668	−19
3	4.3	586	−29
4	4.4	567	−28



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/21/2006 (Day of Year 52)
NCEP/NCAR Reanalysis 1 Data Set





12UT

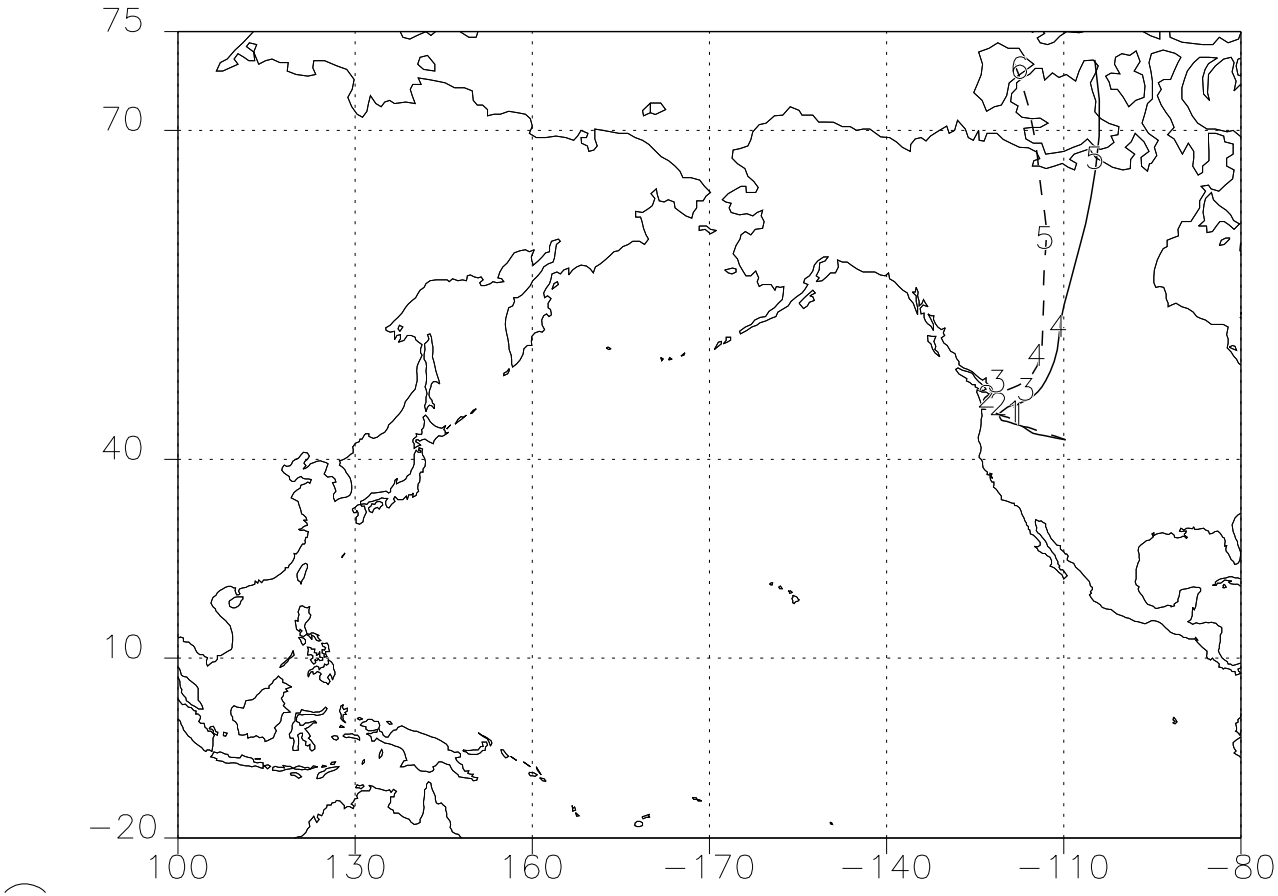
Day	km	hPa	C
0	2.4	754	−13
1	2.2	772	−13
2	2.9	703	−16
3	3.7	639	−22
4	3.7	634	−21
5	4.1	592	−26
6	3.8	622	−22
7	4.0	598	−23
8	4.8	519	−38
9	5.2	489	−42
10	5.7	453	−45

18UT

Day	km	hPa	C
0	2.4	755	−12
1	2.2	780	−10
2	2.4	756	−11
3	3.3	672	−18
4	2.8	712	−13
5	3.2	682	−16
6	3.1	690	−14
7	2.7	723	−12
8	1.9	792	−6
9	3.4	636	−25
10	4.6	543	−36

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/22/2006 (Day of Year 53)
NCEP/NCAR Reanalysis 1 Data Set

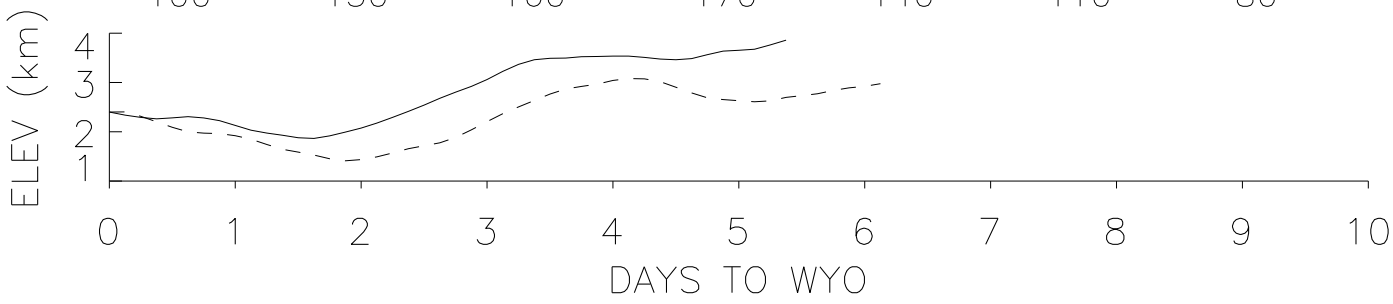


00UT

Day	km	hPa	C
0	2.4	754	−11
1	2.1	784	−9
2	2.1	790	−8
3	3.1	692	−18
4	3.5	648	−22
5	3.7	636	−22

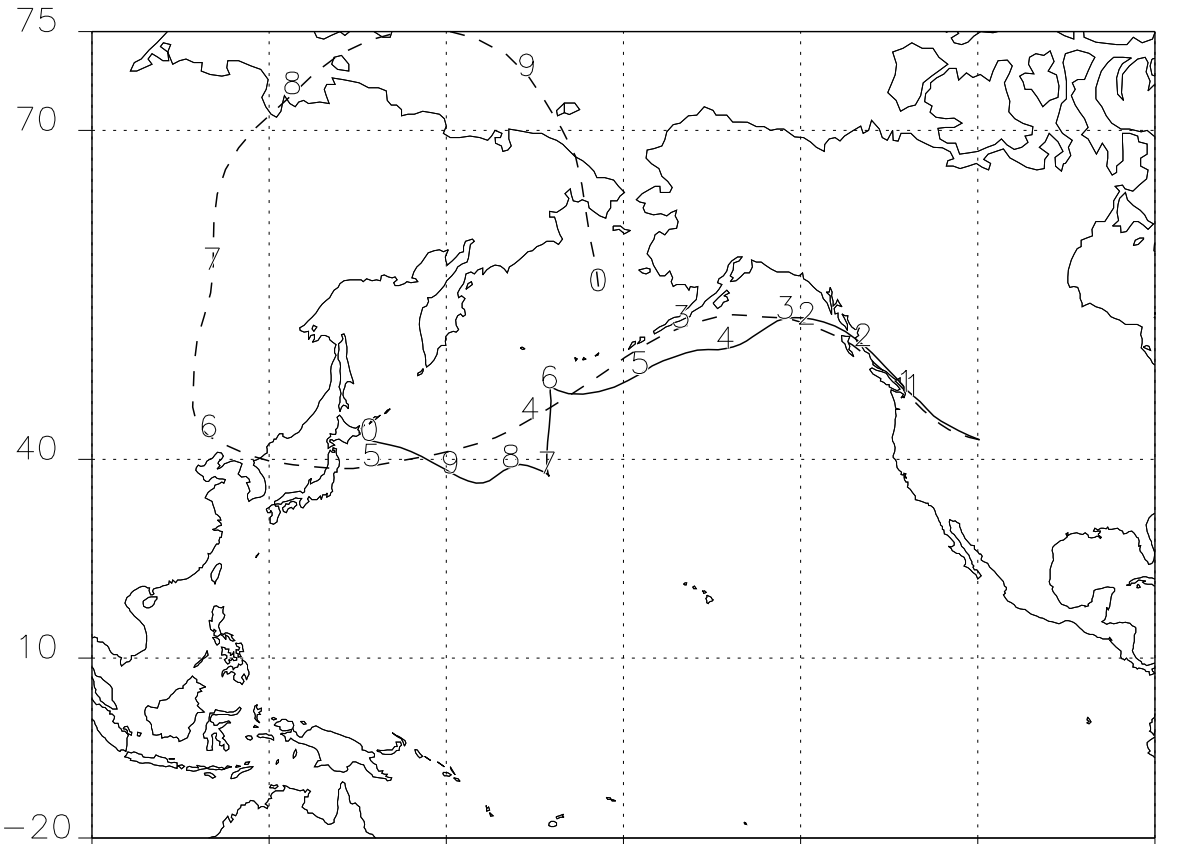
06UT

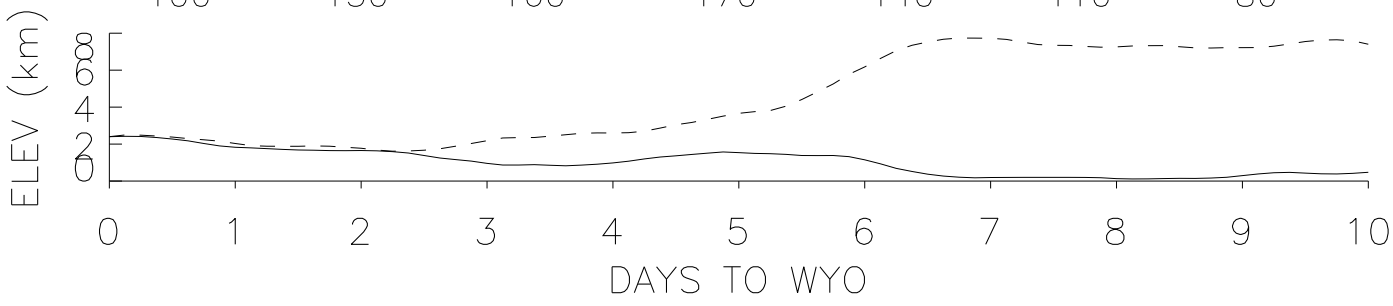
Day	km	hPa	C
0	2.4	755	−12
1	1.9	805	−9
2	1.4	858	−4
3	2.2	776	−11
4	3.0	696	−19
5	2.6	734	−13
6	2.9	707	−14



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/22/2006 (Day of Year 53)
NCEP/NCAR Reanalysis 1 Data Set





12UT

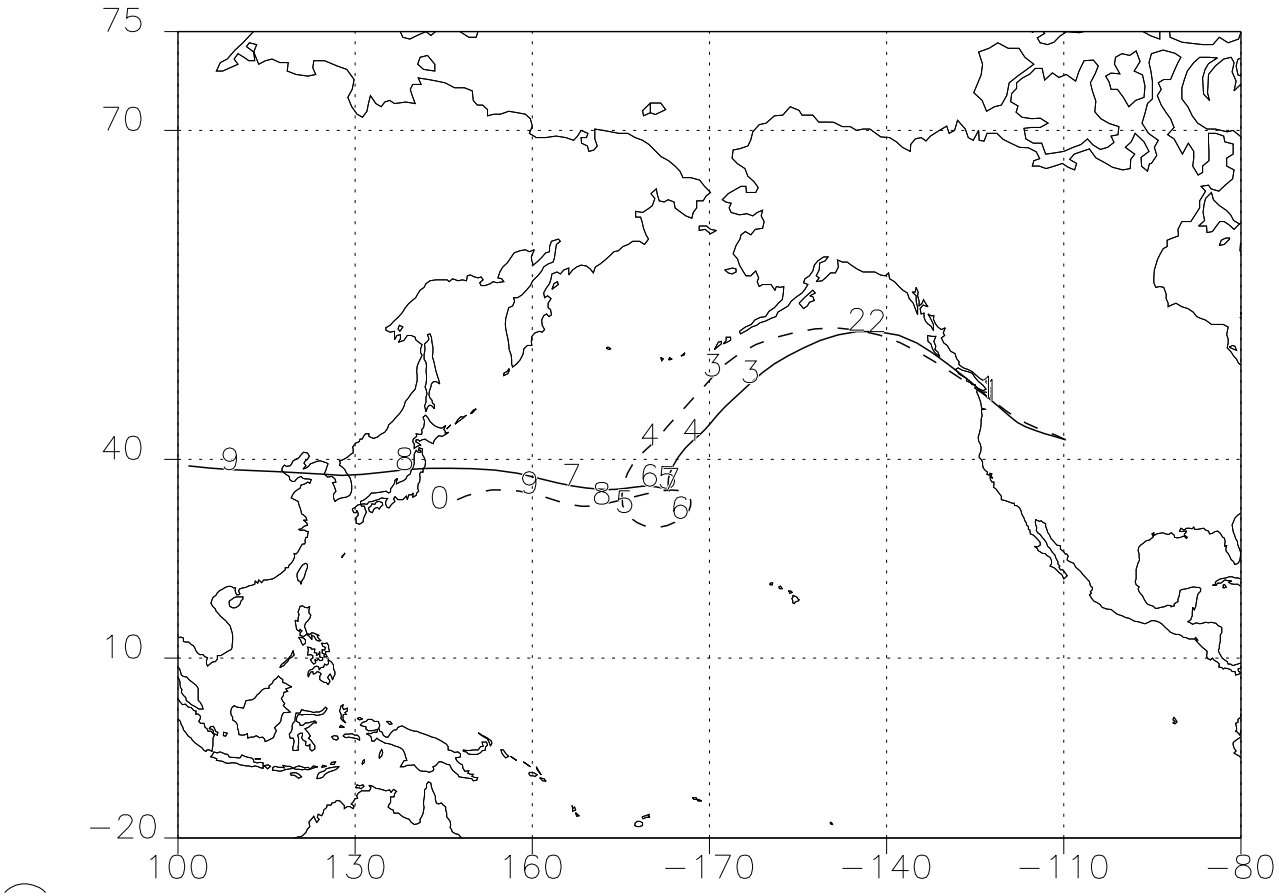
Day	km	hPa	C
0	2.4	756	−10
1	1.8	814	−6
2	1.7	834	−5
3	1.0	913	−1
4	1.0	912	−1
5	1.5	834	−6
6	1.1	863	−5
7	0.2	1000	6
8	0.1	998	6
9	0.3	977	−1
10	0.5	948	−10

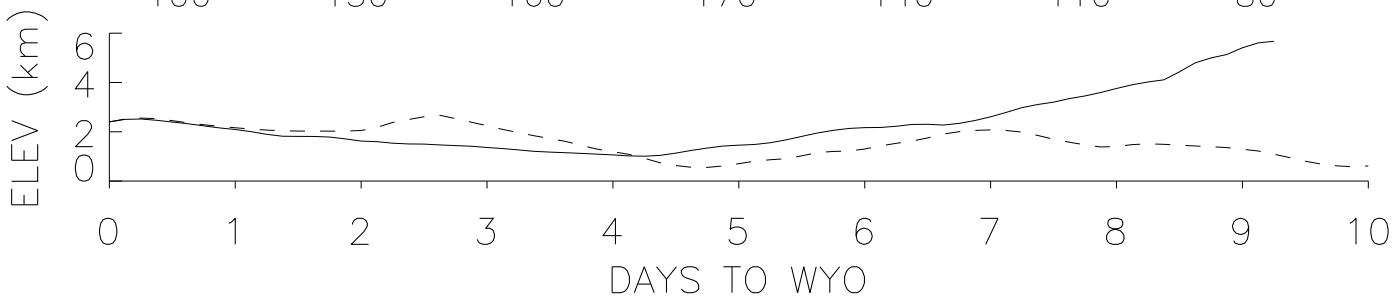
18UT

Day	km	hPa	C
0	2.4	756	−9
1	2.0	794	−6
2	1.8	824	−2
3	2.2	781	−5
4	2.6	732	−12
5	3.7	629	−21
6	6.2	438	−43
7	7.7	336	−57
8	7.3	364	−53
9	7.2	369	−51
10	7.4	351	−52

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/23/2006 (Day of Year 54)
NCEP/NCAR Reanalysis 1 Data Set





00UT

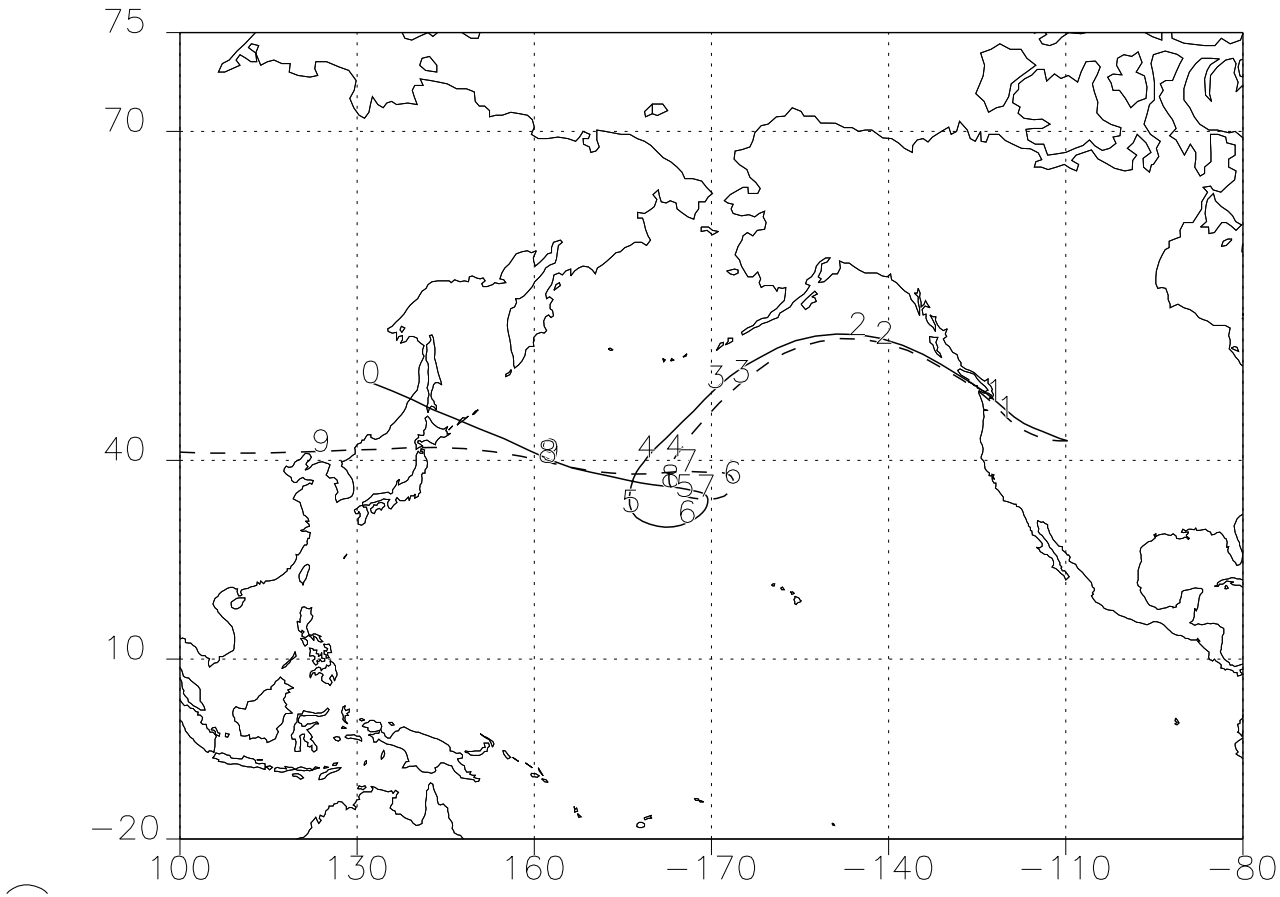
Day	km	hPa	C
0	2.4	757	−6
1	2.1	789	−5
2	1.6	840	−1
3	1.4	874	3
4	1.1	911	6
5	1.5	868	9
6	2.2	792	2
7	2.6	742	−1
8	3.8	633	−11
9	5.4	507	−26

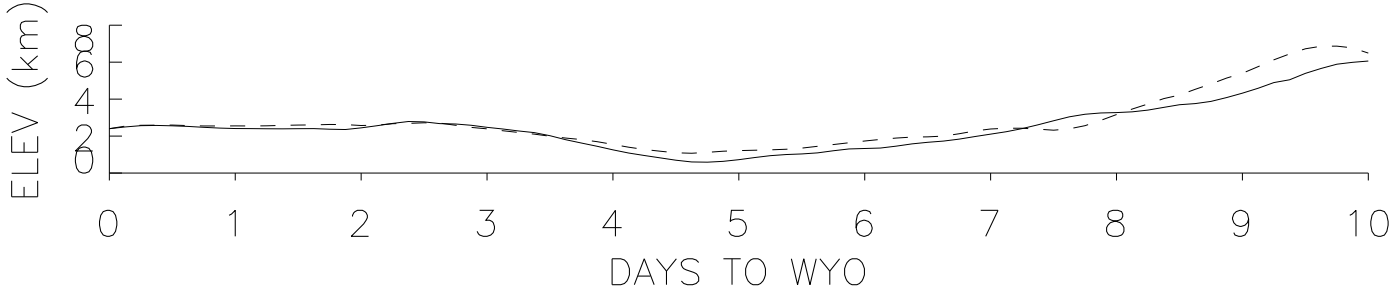
06UT

Day	km	hPa	C
0	2.4	760	−7
1	2.2	782	−6
2	2.1	796	−4
3	2.2	776	−7
4	1.2	890	4
5	0.7	947	9
6	1.3	881	8
7	2.1	796	−1
8	1.4	864	3
9	1.3	871	0
10	0.6	946	6

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/23/2006 (Day of Year 54)
NCEP/NCAR Reanalysis 1 Data Set





12UT

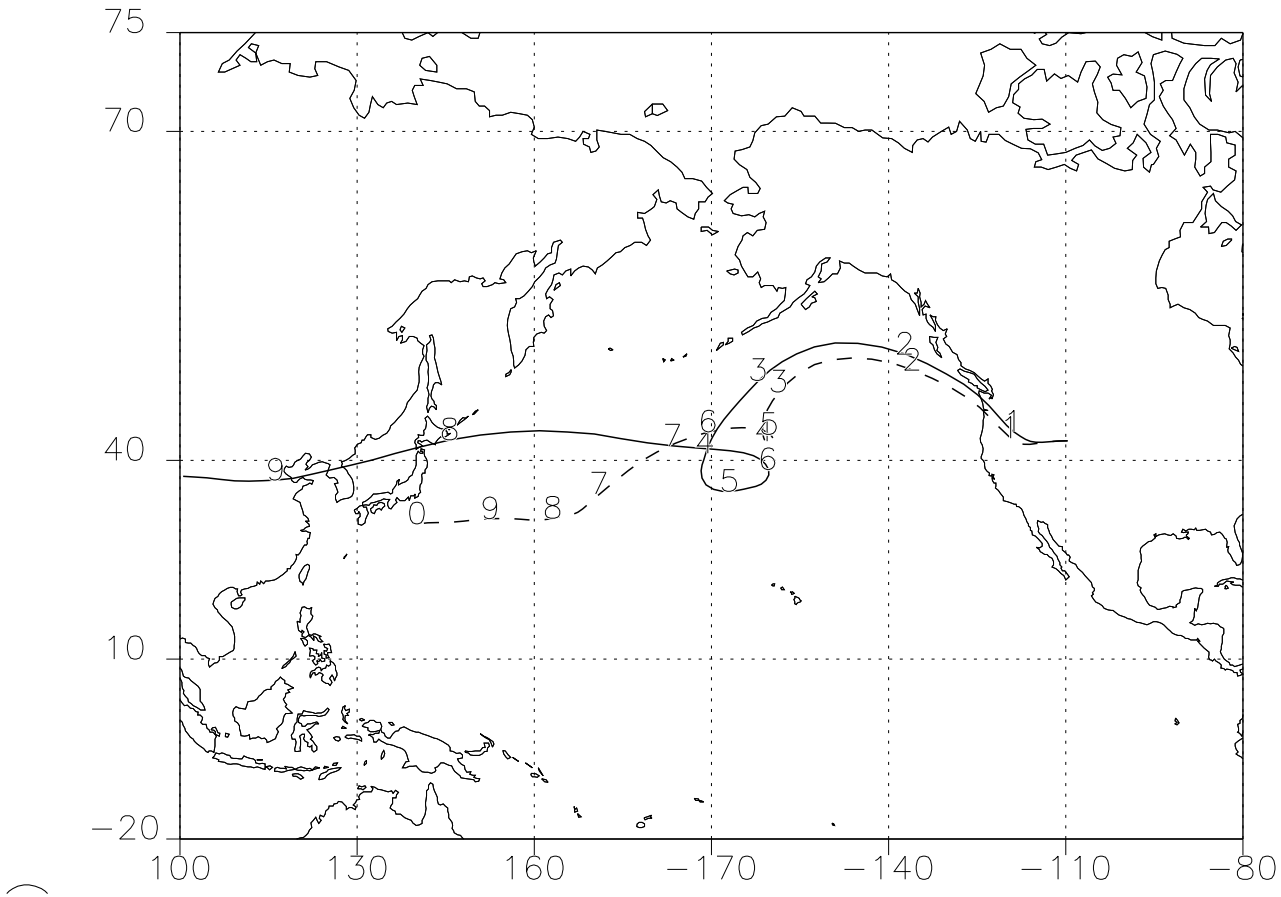
Day	km	hPa	C
0	2.4	760	−7
1	2.4	757	−7
2	2.4	757	−7
3	2.5	755	−7
4	1.3	883	3
5	0.7	945	9
6	1.3	879	8
7	2.1	795	1
8	3.3	681	−11
9	4.3	581	−20
10	6.1	447	−38

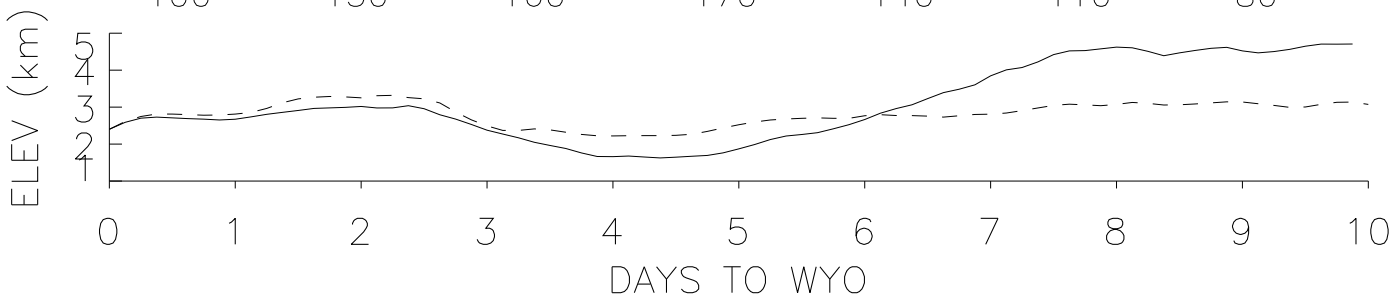
18UT

Day	km	hPa	C
0	2.4	761	−5
1	2.5	745	−8
2	2.6	744	−9
3	2.4	767	−5
4	1.5	853	5
5	1.2	893	7
6	1.7	838	6
7	2.4	766	−2
8	3.2	681	−8
9	5.4	500	−29
10	6.5	434	−38

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/24/2006 (Day of Year 55)
NCEP/NCAR Reanalysis 1 Data Set





00UT

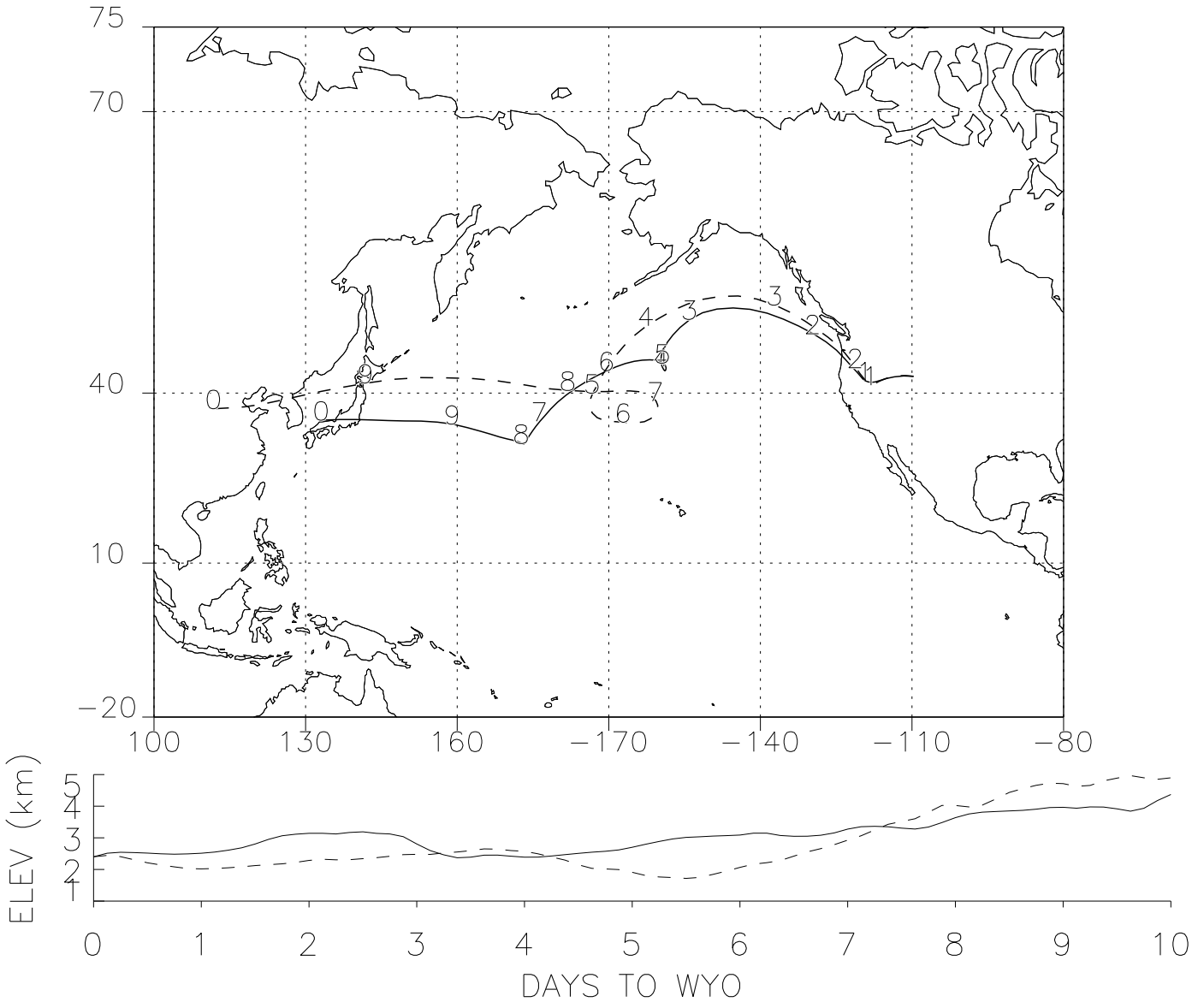
Day	km	hPa	C
0	2.4	760	−3
1	2.7	736	−6
2	3.0	703	−9
3	2.4	770	−4
4	1.7	845	8
5	1.9	827	9
6	2.7	748	2
7	3.8	630	−12
8	4.6	556	−21
9	4.5	572	−18

06UT

Day	km	hPa	C
0	2.4	758	−4
1	2.8	724	−6
2	3.3	683	−9
3	2.5	762	−3
4	2.2	793	4
5	2.5	764	1
6	2.8	736	1
7	2.8	729	0
8	3.1	705	−1
9	3.1	698	0
10	3.1	702	0

00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/24/2006 (Day of Year 55)
NCEP/NCAR Reanalysis 1 Data Set



12UT

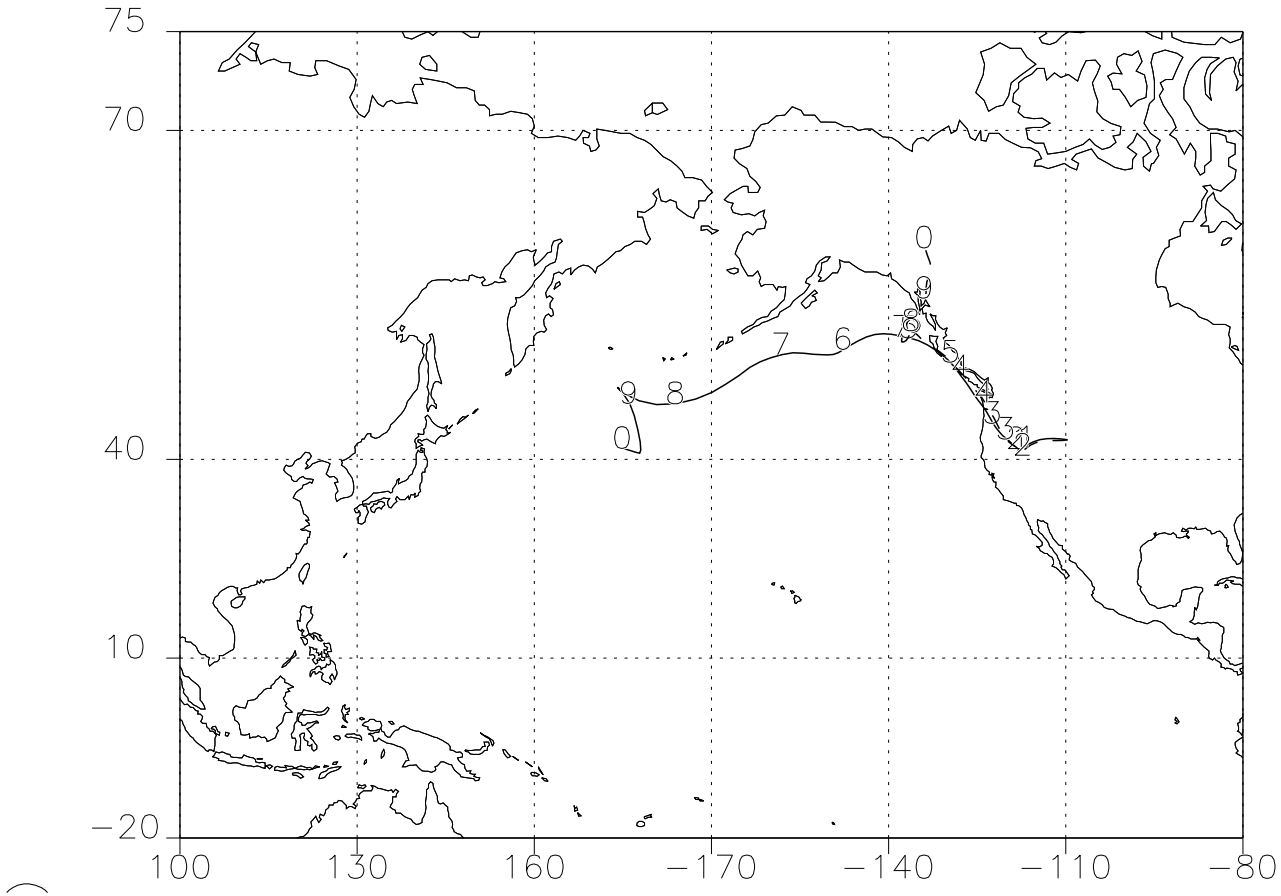
Day	km	hPa	C
0	2.4	758	−5
1	2.5	752	−6
2	3.1	693	−8
3	2.8	731	−5
4	2.4	775	2
5	2.7	747	1
6	3.1	709	−1
7	3.3	692	−2
8	3.6	659	−5
9	4.0	626	−6
10	4.4	590	−10

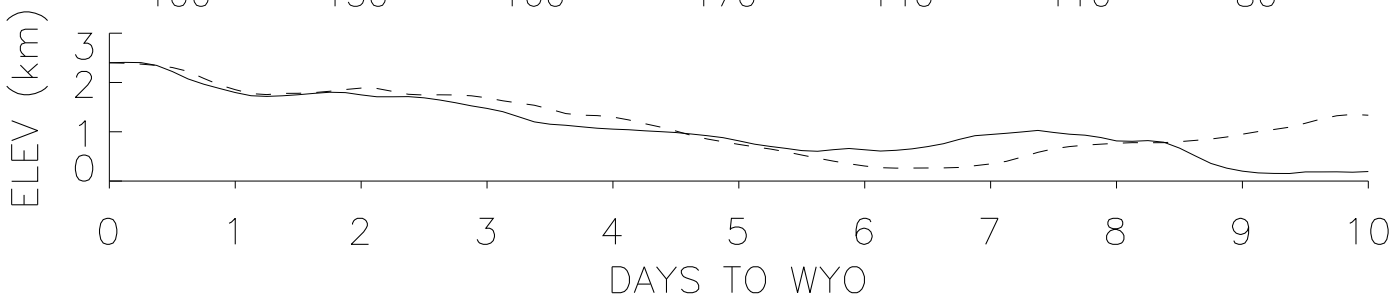
18UT

Day	km	hPa	C
0	2.4	760	−5
1	2.0	801	−1
2	2.3	773	−5
3	2.5	756	−6
4	2.6	751	−4
5	1.9	819	6
6	2.1	807	7
7	2.9	722	0
8	4.0	616	−15
9	4.7	552	−19
10	4.9	545	−21

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/25/2006 (Day of Year 56)
NCEP/NCAR Reanalysis 1 Data Set





00UT

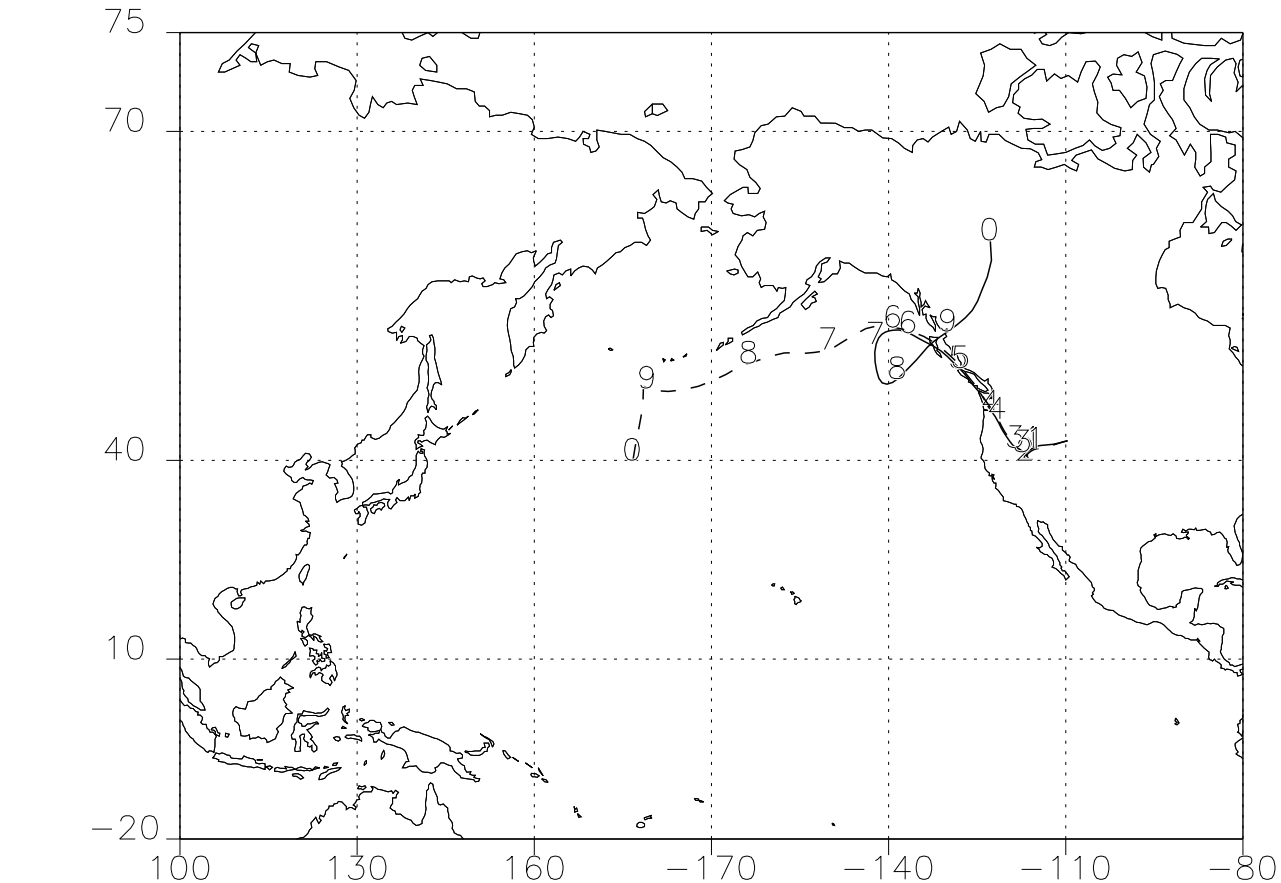
Day	km	hPa	C
0	2.4	760	−3
1	1.8	822	4
2	1.7	828	2
3	1.5	856	−1
4	1.1	901	0
5	0.8	930	−1
6	0.6	955	2
7	0.9	909	−1
8	0.8	910	−2
9	0.2	977	3
10	0.2	995	1

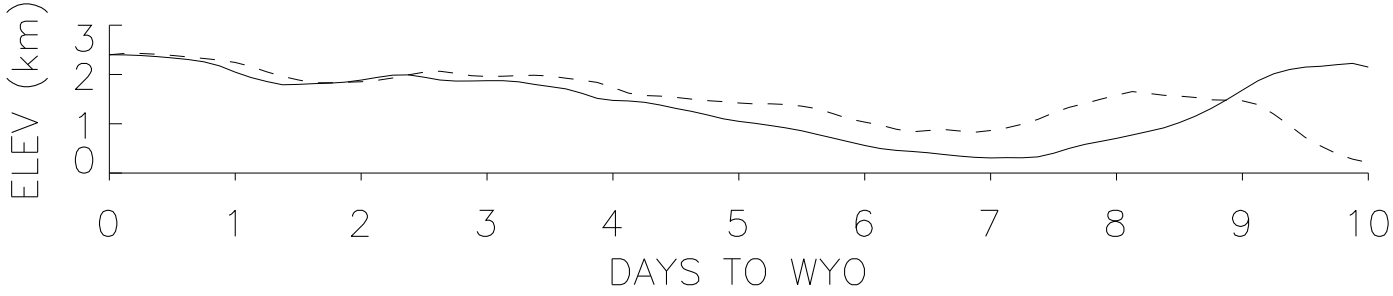
06UT

Day	km	hPa	C
0	2.4	761	−5
1	1.9	814	2
2	1.9	815	−1
3	1.7	834	−3
4	1.3	874	−4
5	0.7	938	−2
6	0.3	994	2
7	0.3	992	3
8	0.8	946	1
9	1.0	924	−3
10	1.3	878	−6

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/25/2006 (Day of Year 56)
NCEP/NCAR Reanalysis 1 Data Set





12UT

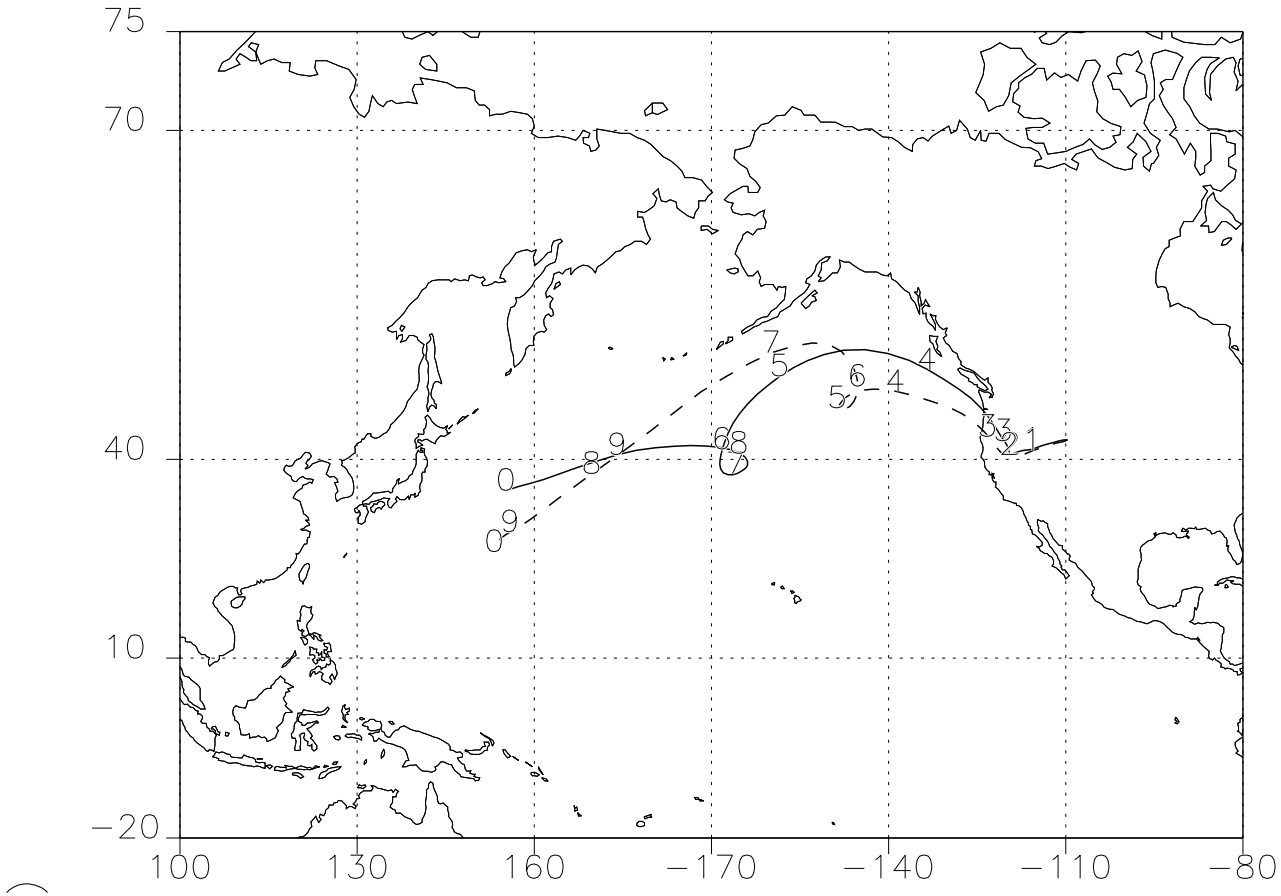
Day	km	hPa	C
0	2.4	762	−6
1	2.0	795	−2
2	1.9	814	−3
3	1.9	814	−5
4	1.5	854	−4
5	1.0	902	−3
6	0.6	961	1
7	0.3	994	4
8	0.7	951	1
9	1.7	839	−8
10	2.1	785	−13

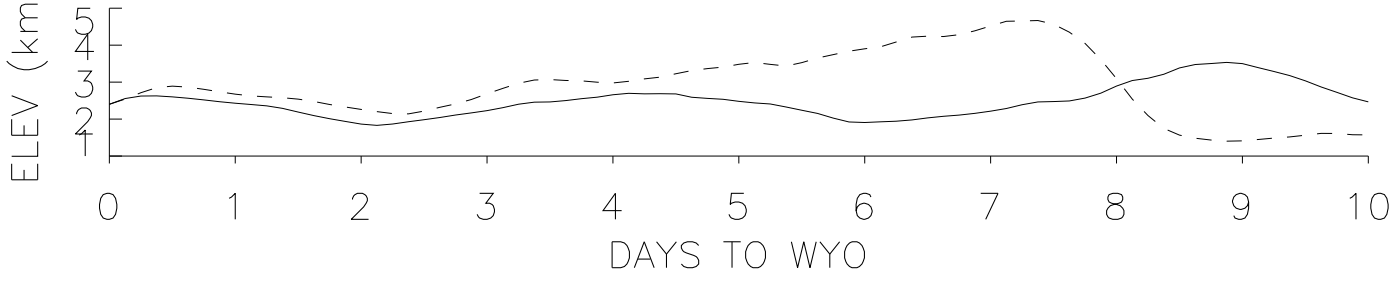
18UT

Day	km	hPa	C
0	2.4	764	−3
1	2.2	777	−2
2	1.9	818	0
3	2.0	806	−3
4	1.7	828	−4
5	1.4	860	−4
6	1.0	905	−1
7	0.9	928	−1
8	1.6	834	−6
9	1.5	831	−6
10	0.2	989	7

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/26/2006 (Day of Year 57)
NCEP/NCAR Reanalysis 1 Data Set





00UT

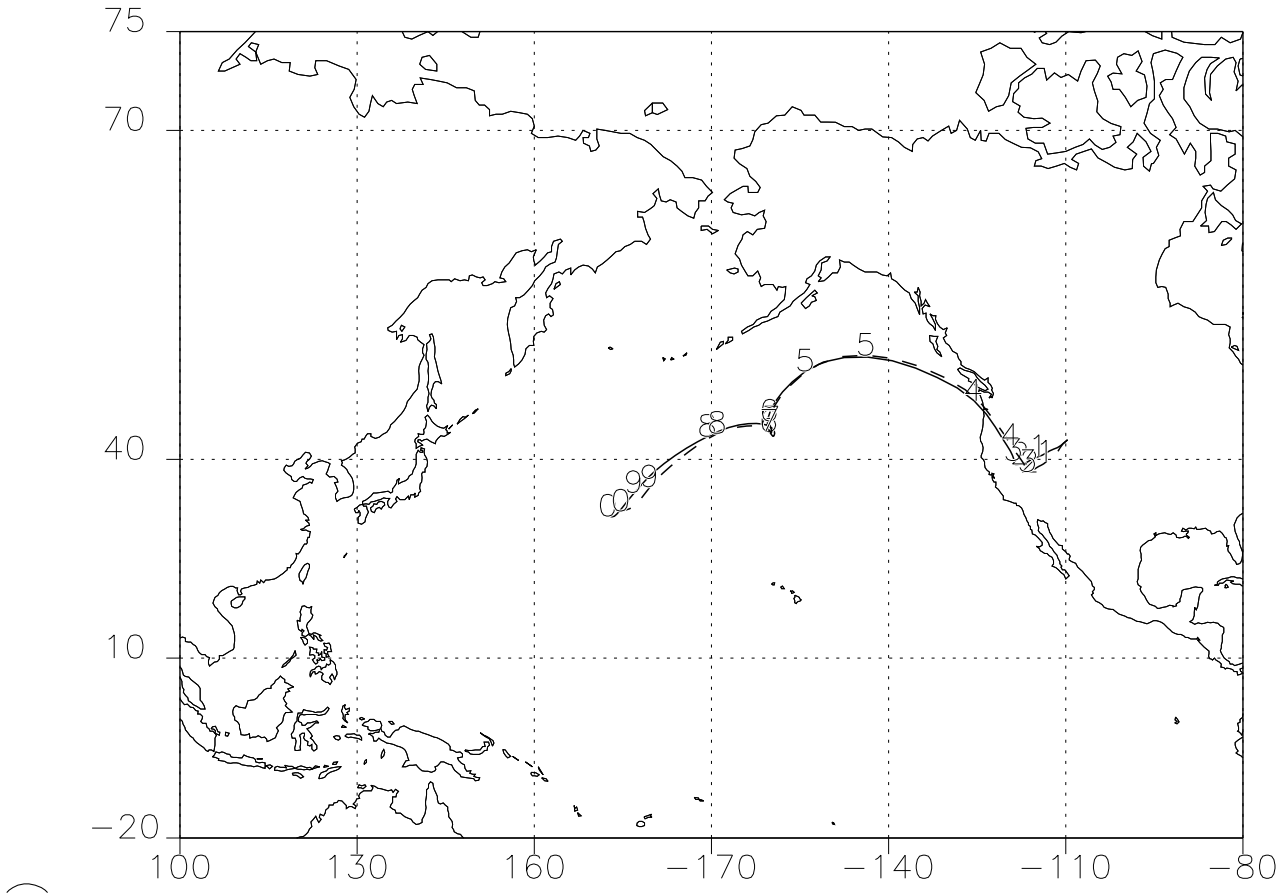
Day	km	hPa	C
0	2.4	765	0
1	2.4	758	0
2	1.9	815	5
3	2.2	780	−1
4	2.7	738	−6
5	2.5	762	−2
6	1.9	822	7
7	2.2	794	7
8	2.9	727	1
9	3.5	662	−6
10	2.5	756	1

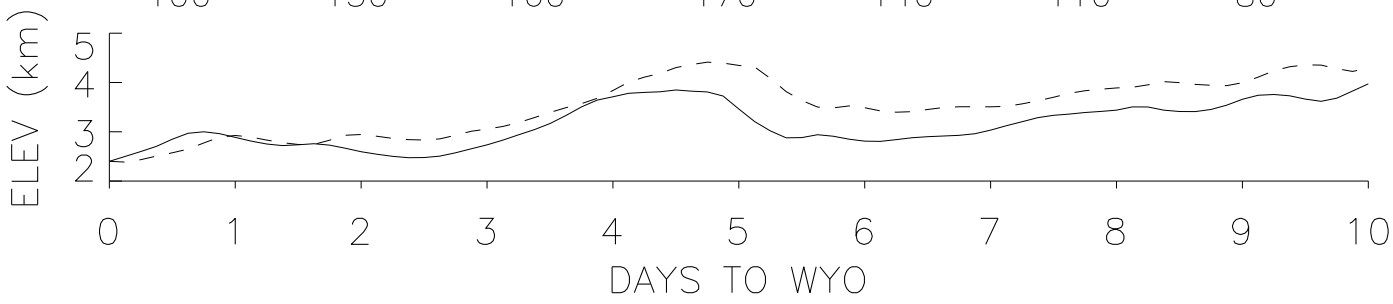
06UT

Day	km	hPa	C
0	2.4	765	−3
1	2.7	736	−2
2	2.3	775	1
3	2.7	737	−3
4	3.0	713	−5
5	3.5	677	−6
6	3.9	638	−8
7	4.5	584	−10
8	3.1	698	−1
9	1.4	864	13
10	1.6	848	11

00UT – solid
06UT – dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/26/2006 (Day of Year 57)
NCEP/NCAR Reanalysis 1 Data Set





12UT

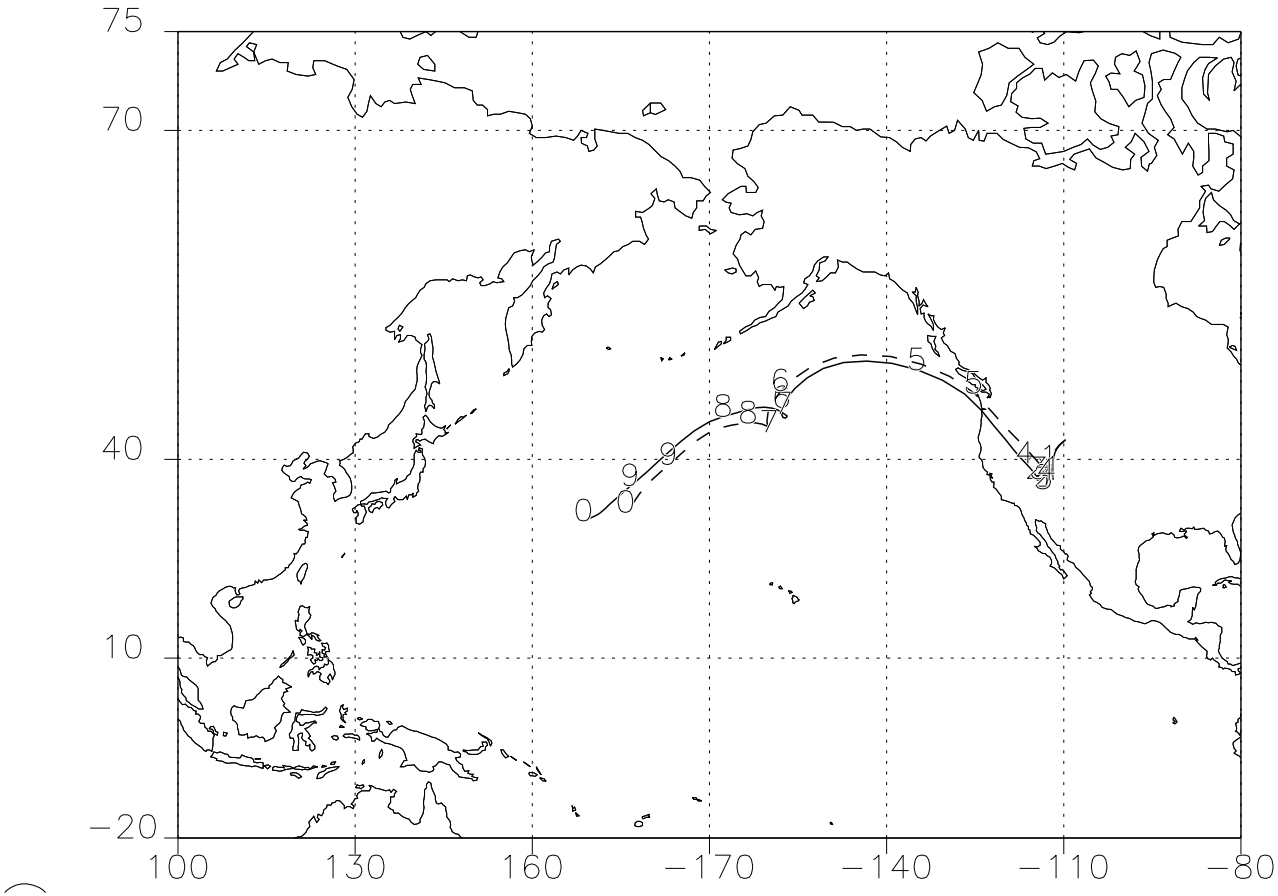
Day	km	hPa	C
0	2.4	764	−2
1	2.9	717	−3
2	2.6	743	−1
3	2.7	731	−5
4	3.7	643	−12
5	3.5	672	−8
6	2.8	736	0
7	3.0	717	−1
8	3.4	679	−3
9	3.7	660	−4
10	4.0	631	−7

18UT

Day	km	hPa	C
0	2.4	763	0
1	2.9	716	−2
2	2.9	711	−2
3	3.1	703	−4
4	3.8	635	−10
5	4.3	595	−14
6	3.5	676	−5
7	3.5	676	−3
8	3.9	643	−6
9	4.0	633	−5
10	4.3	605	−9

12UT − solid
18UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/27/2006 (Day of Year 58)
NCEP/NCAR Reanalysis 1 Data Set

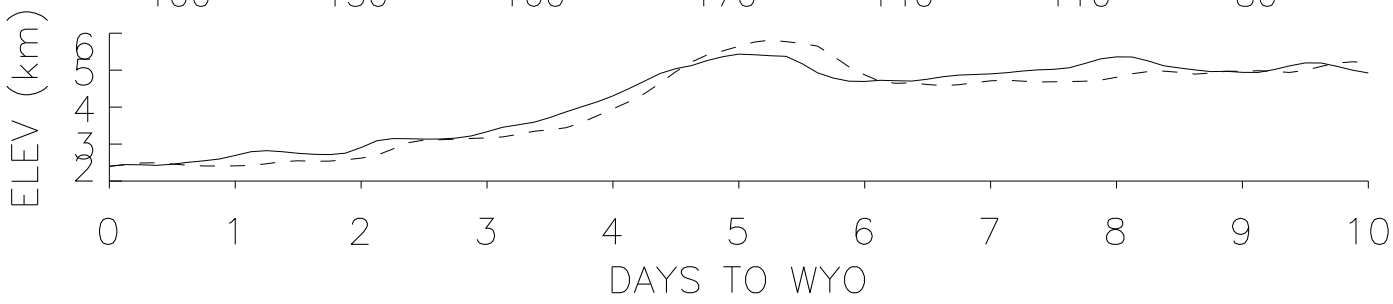


00UT

Day	km	hPa	C
0	2.4	760	4
1	2.7	738	2
2	2.9	715	0
3	3.3	678	−5
4	4.3	598	−12
5	5.4	514	−22
6	4.7	578	−14
7	4.9	564	−14
8	5.4	530	−17
9	4.9	559	−12
10	4.9	560	−10

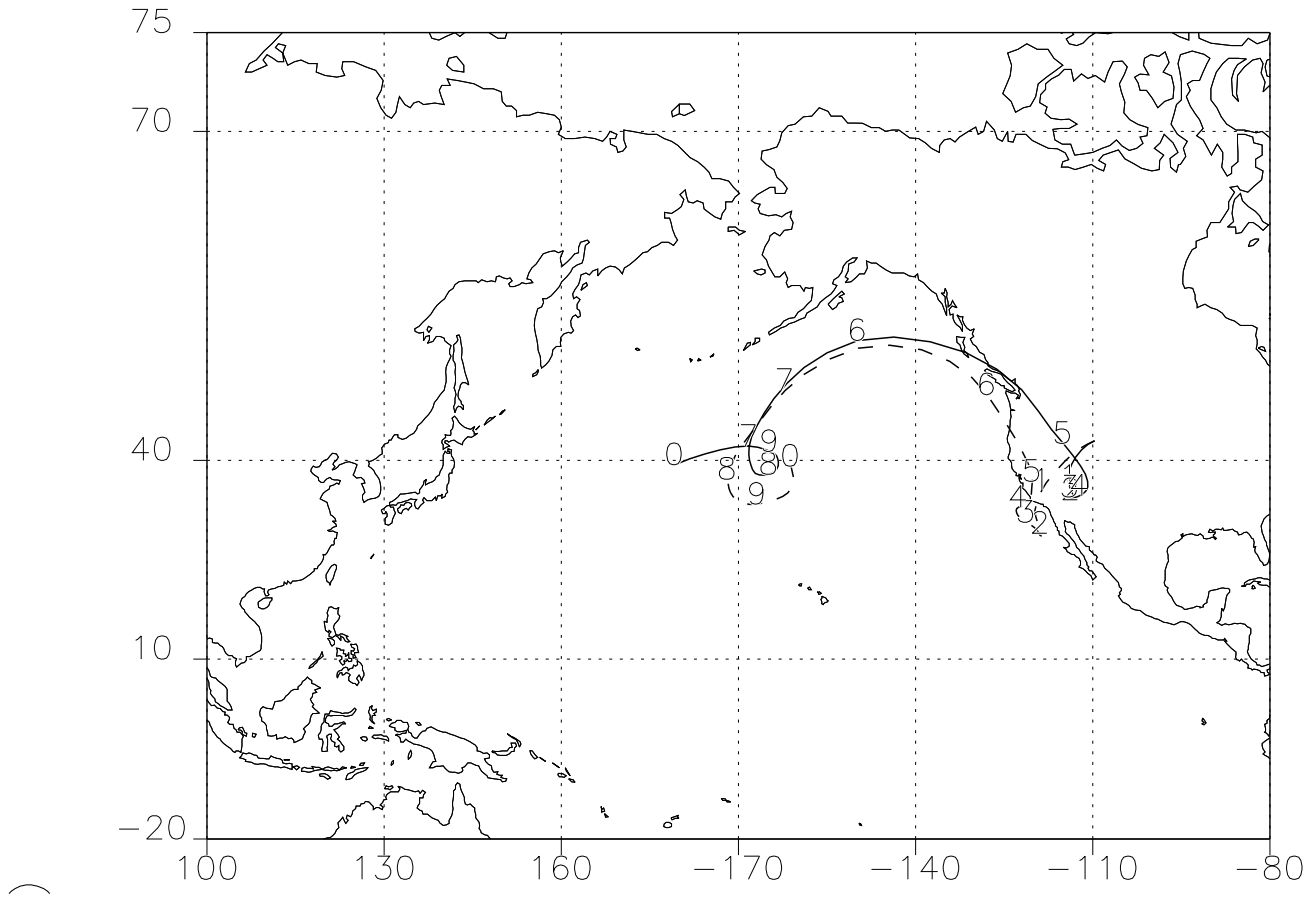
06UT

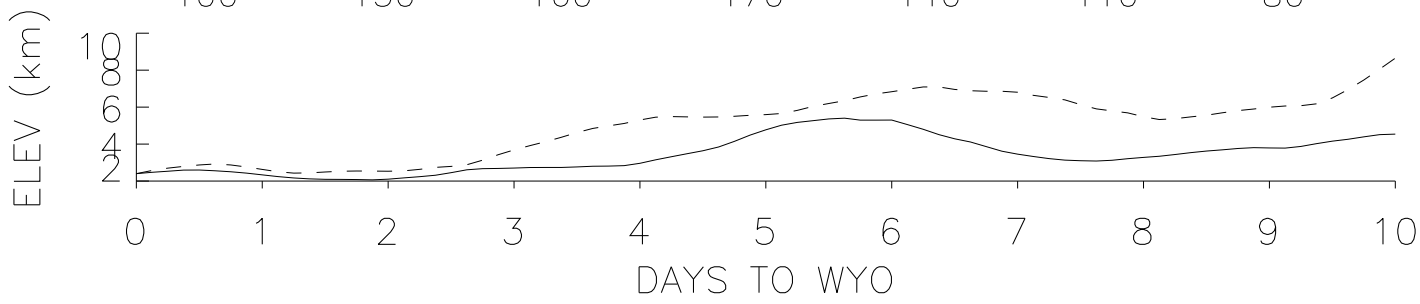
Day	km	hPa	C
0	2.4	758	2
1	2.4	766	3
2	2.6	743	2
3	3.2	692	−2
4	4.0	627	−8
5	5.6	496	−24
6	4.9	561	−16
7	4.7	579	−12
8	4.8	571	−13
9	5.0	557	−12
10	5.2	540	−13



00UT − solid
06UT − dashed

3-D KINEMATIC TRAJECTORIES TO WYO(42.50N, 109.70W)
2/27/2006 (Day of Year 58)
NCEP/NCAR Reanalysis 1 Data Set





12UT

Day	km	hPa	C
0	2.4	758	2
1	2.3	771	5
2	2.1	792	4
3	2.7	733	1
4	3.0	710	−2
5	4.8	557	−18
6	5.3	522	−22
7	3.5	677	−3
8	3.3	696	0
9	3.8	652	−3
10	4.5	586	−11

18UT

Day	km	hPa	C
0	2.4	758	2
1	2.6	741	3
2	2.5	755	7
3	3.7	651	−3
4	5.3	526	−18
5	5.6	506	−20
6	6.8	425	−32
7	6.8	430	−30
8	5.5	522	−15
9	6.0	490	−17
10	8.7	334	−43

12UT – solid
18UT – dashed