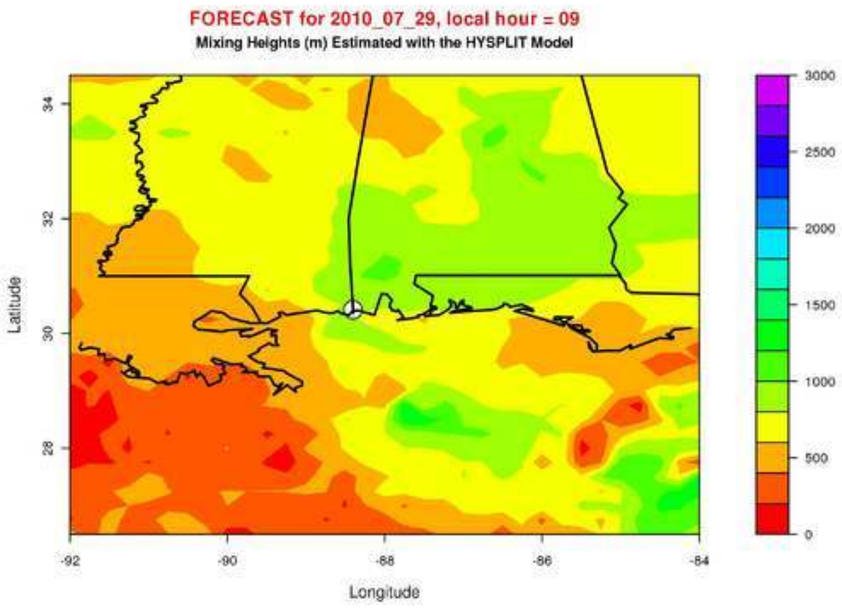
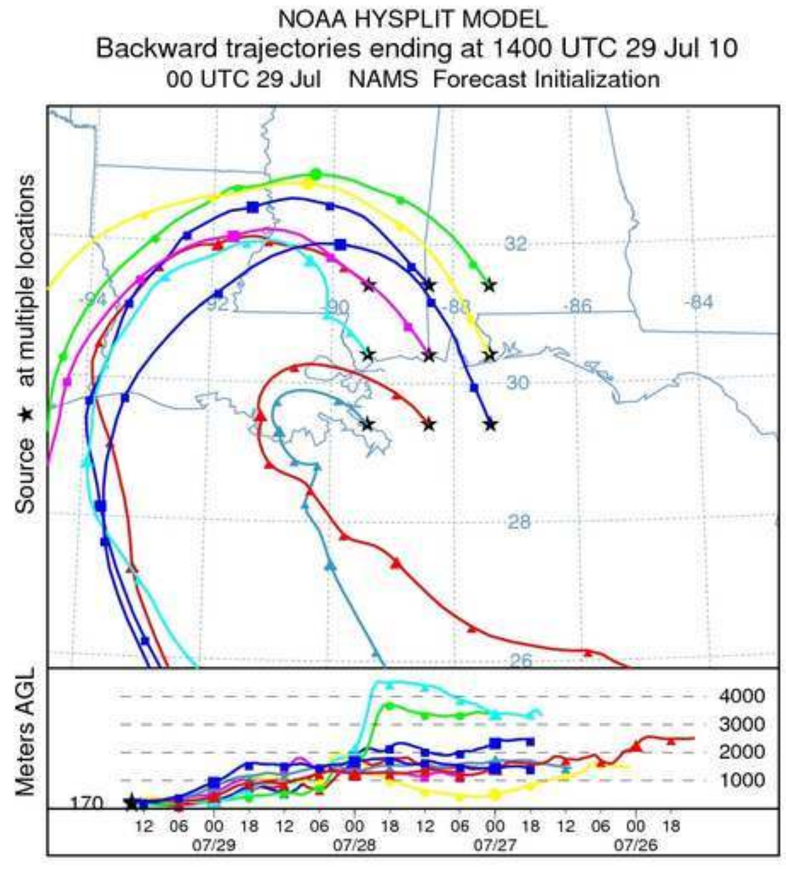
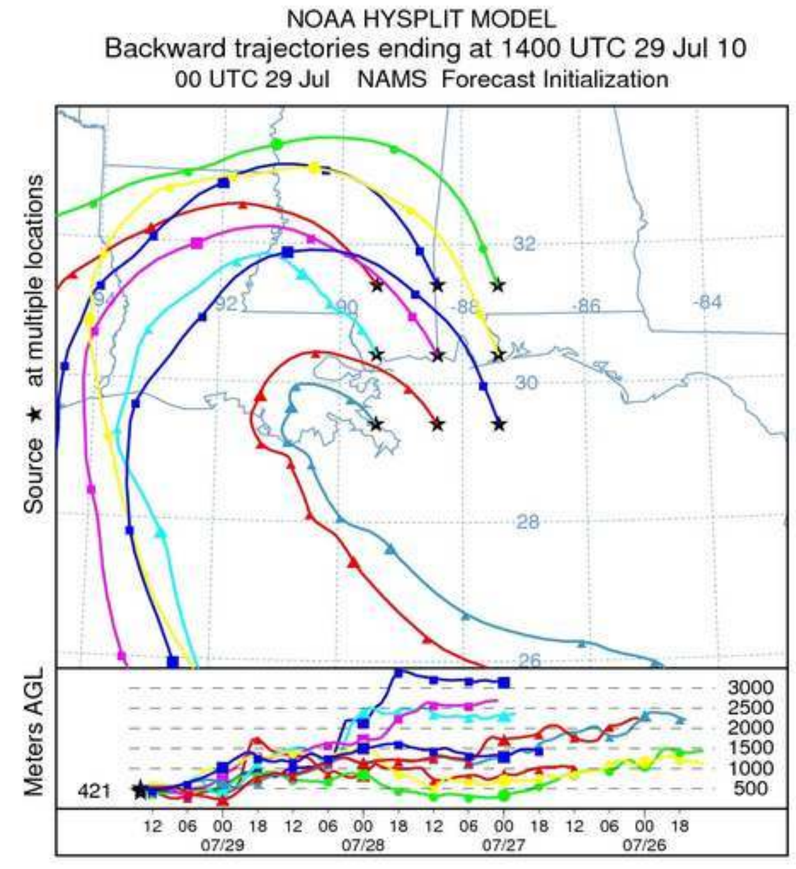
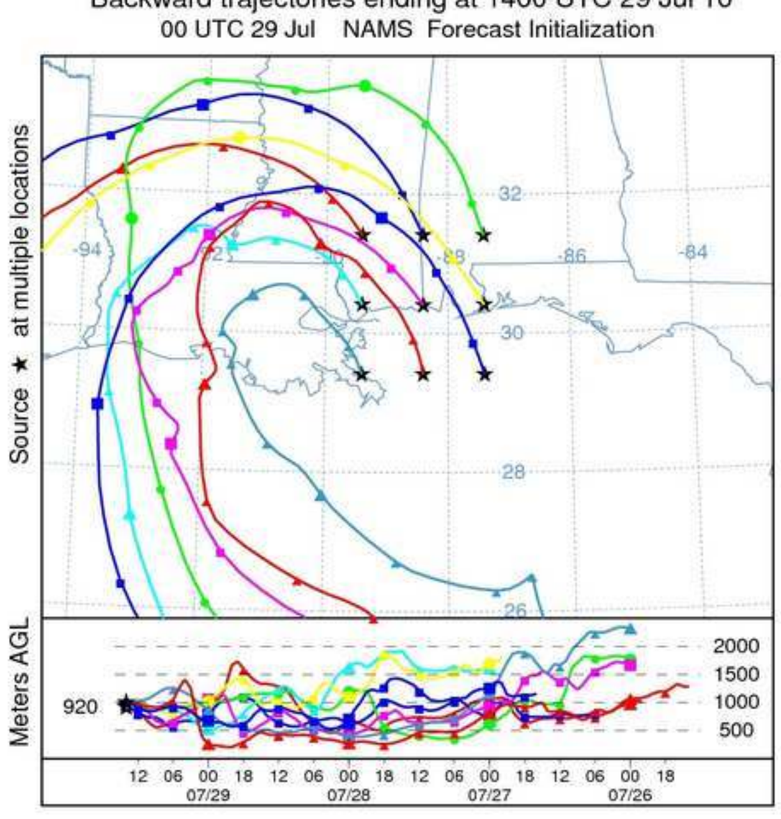
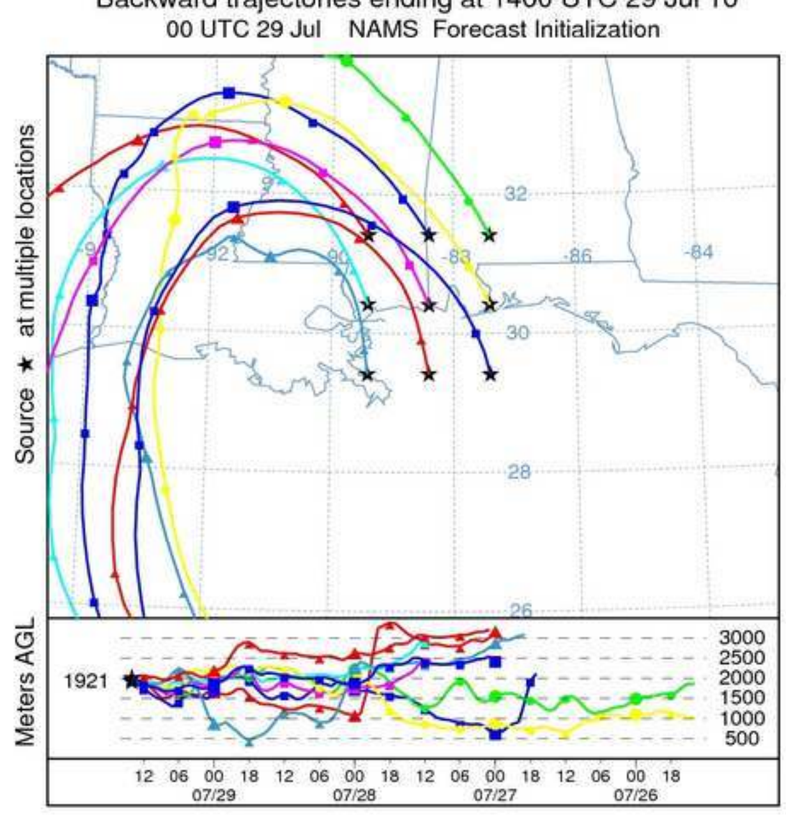
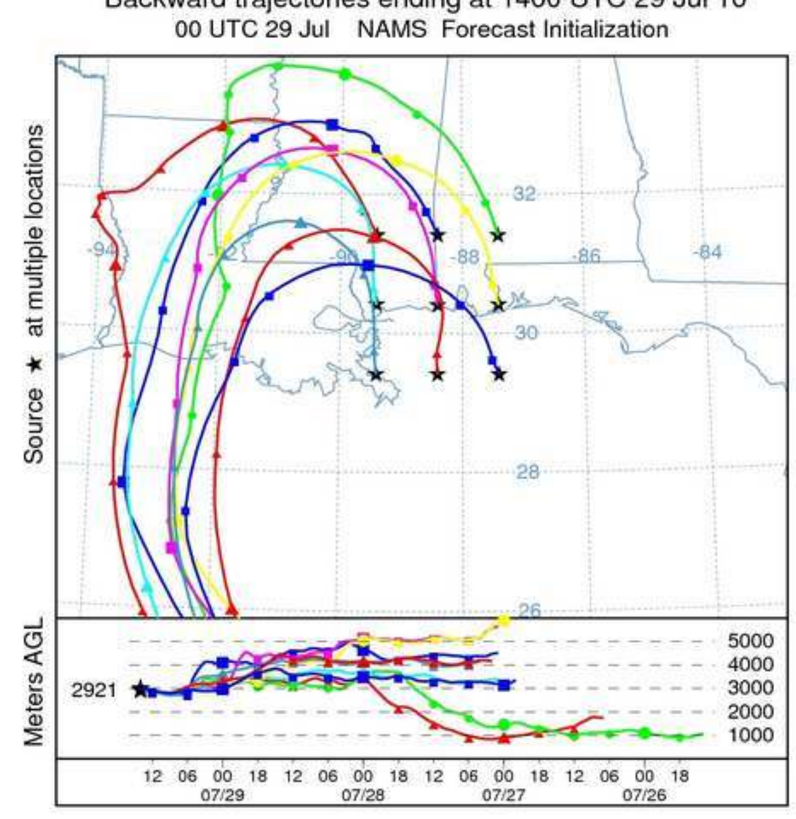

FORECAST for 2010_07_29, local hour = 09
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 1400 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
170
4000
3000
2000
1000
07/29
07/28
07/27
07/26

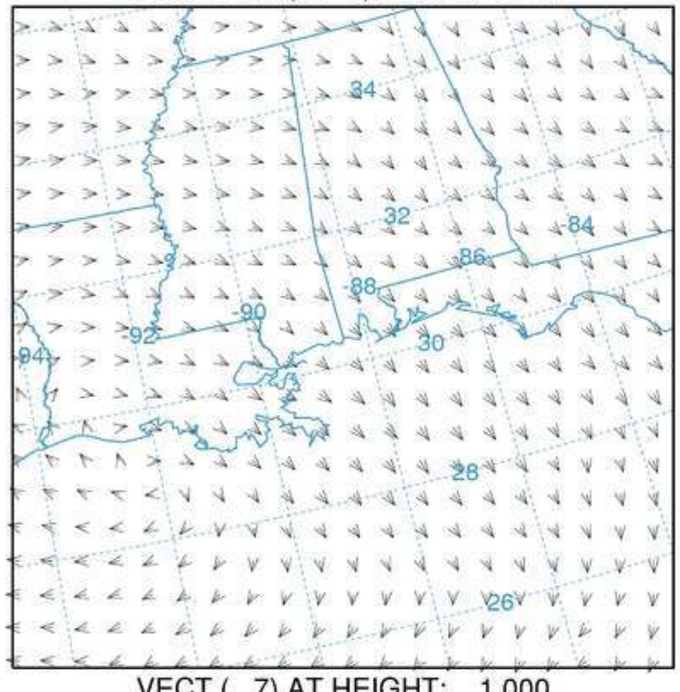

NOAA HYSPLIT MODEL
Backward trajectories ending at 1400 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
3000
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1400 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
920
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1400 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1921
3000
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1400 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
5000
4000
3000
2000
1000
07/29
07/28
07/27
07/26

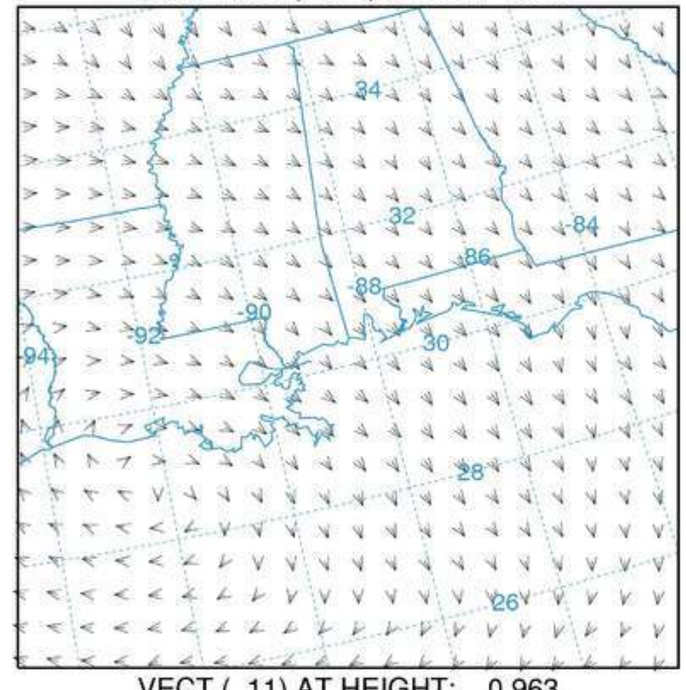
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/14



VECT (7) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

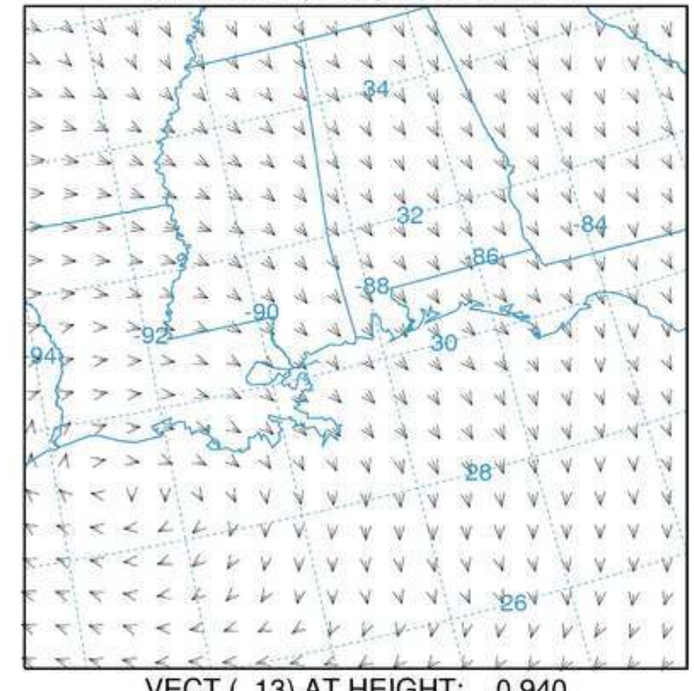
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/14



VECT (11) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

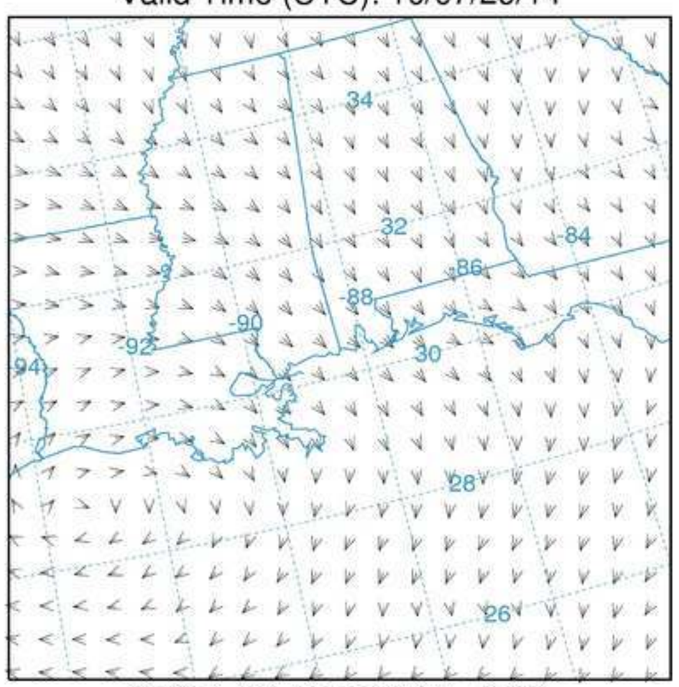
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/14



VECT (13) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

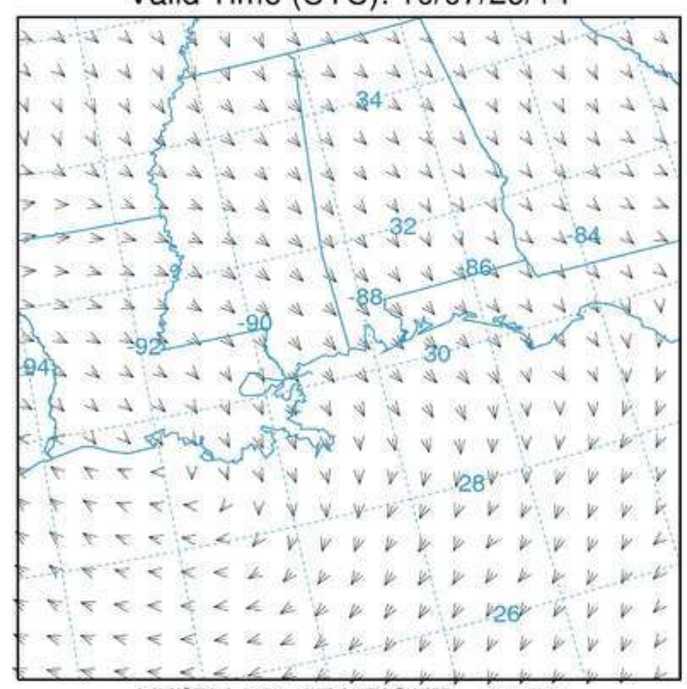
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/14



VECT (12) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

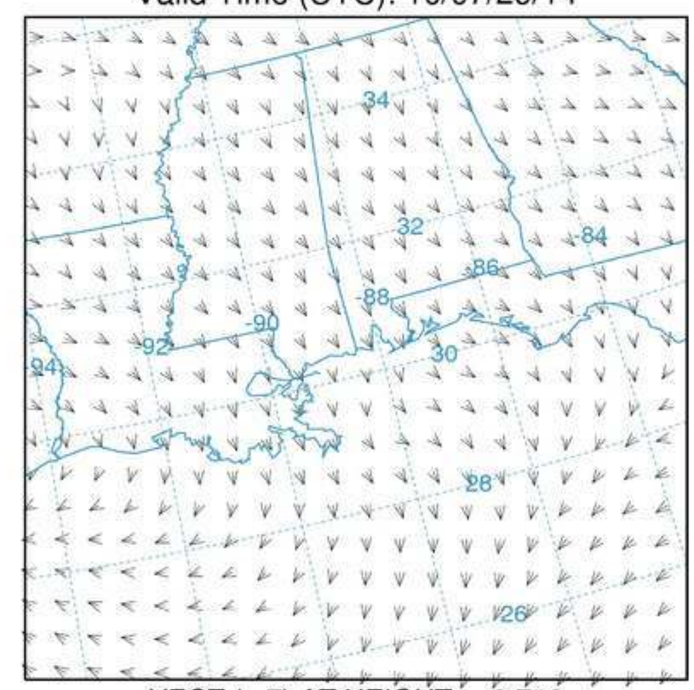
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/14



VECT (10) AT HEIGHT: 0.826

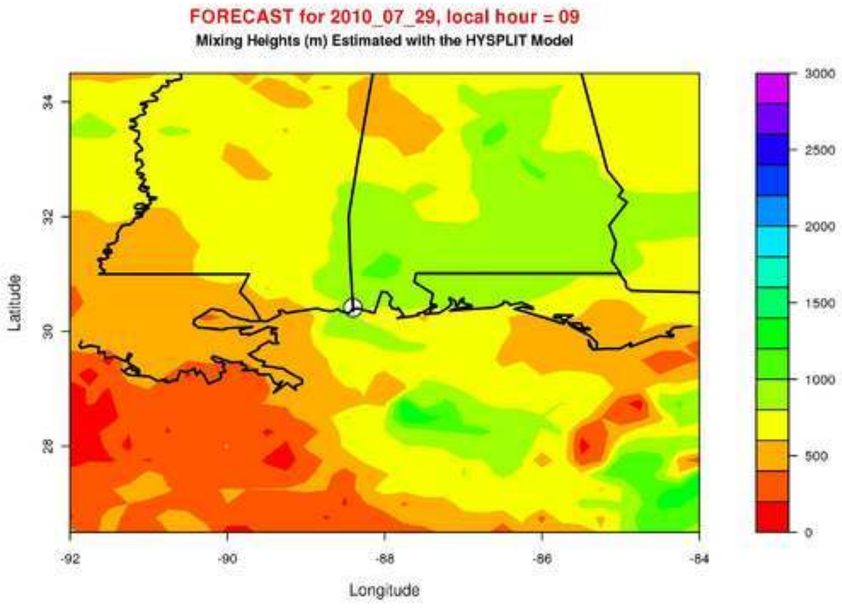
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

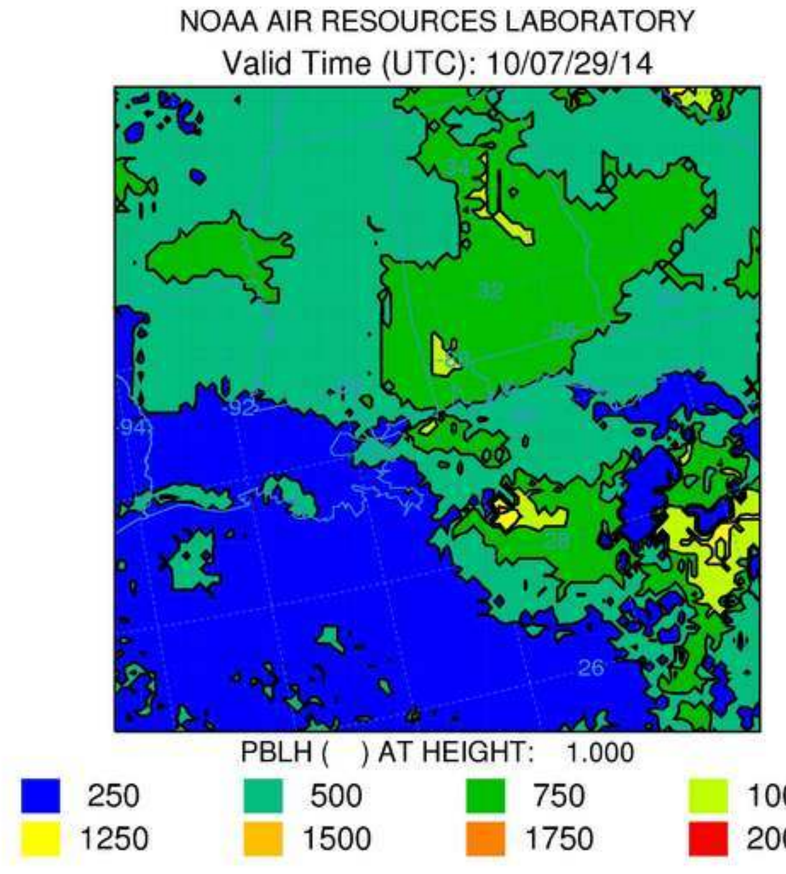
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/14

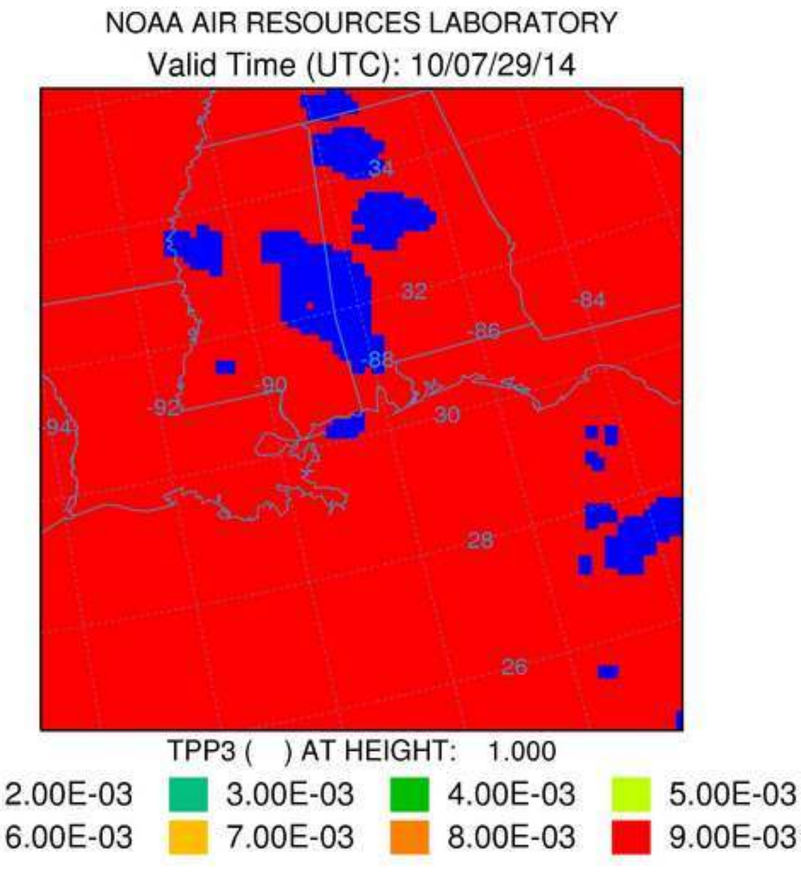


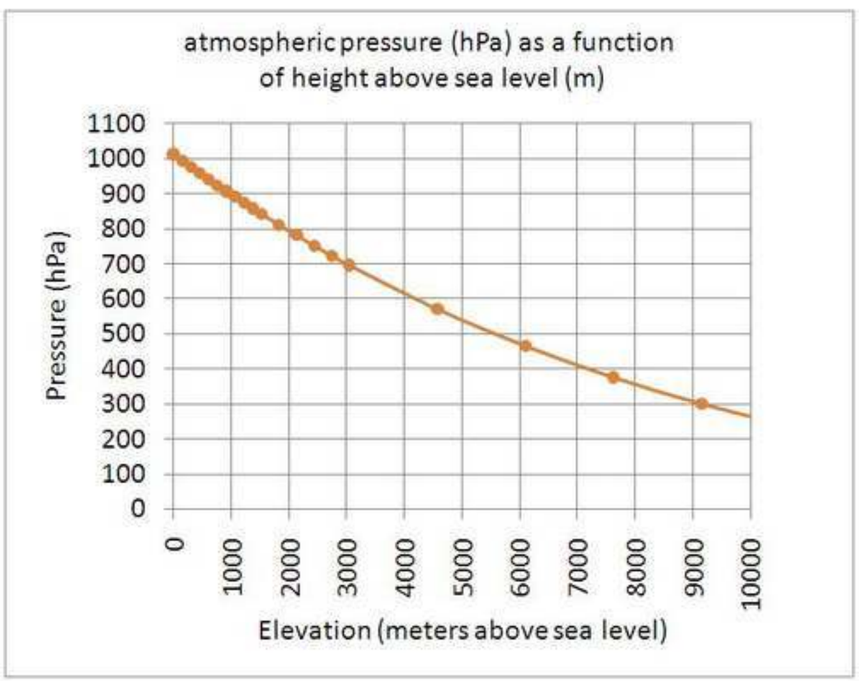
VECT (7) AT HEIGHT: 0.718

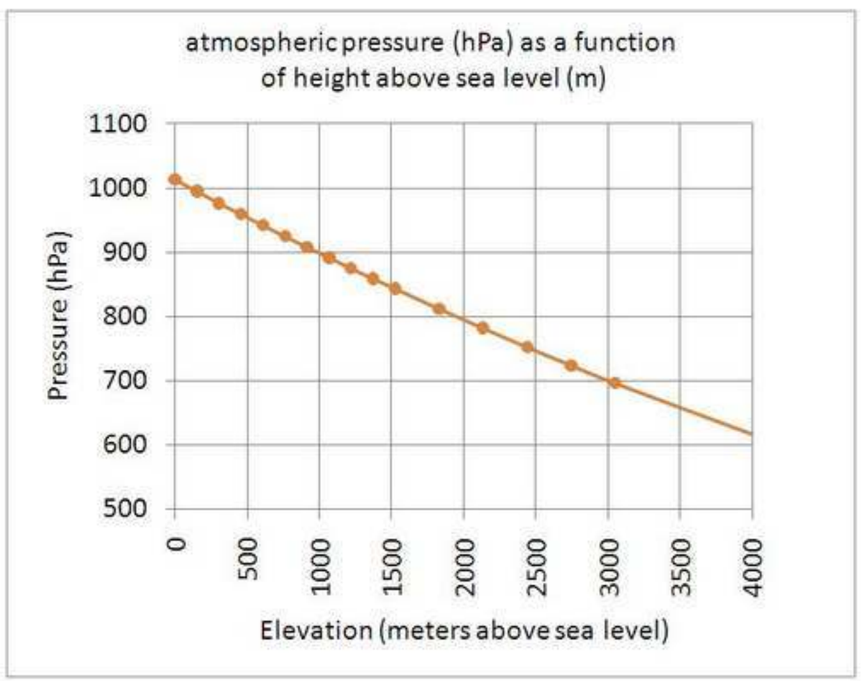
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 09
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/14
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/14
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

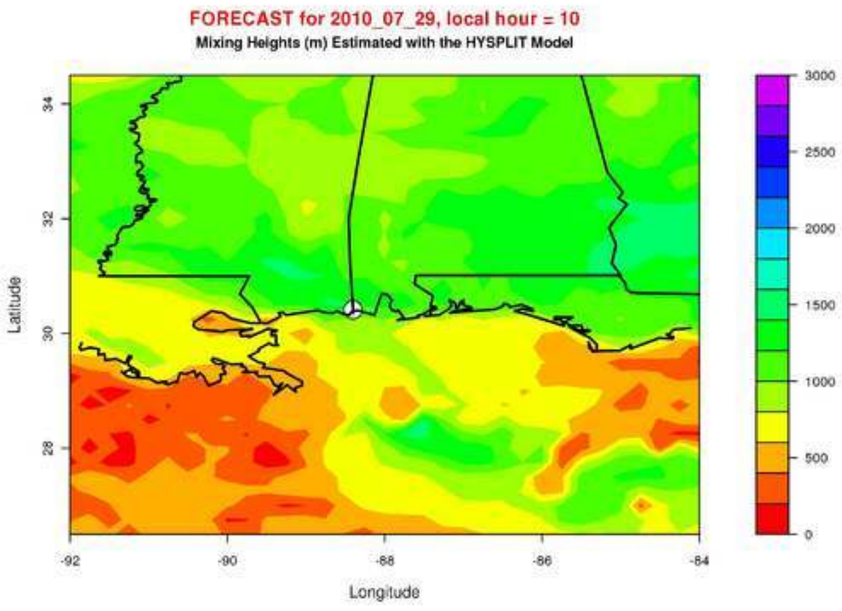
Meteorological Profile: hysplit.t00z.namsf

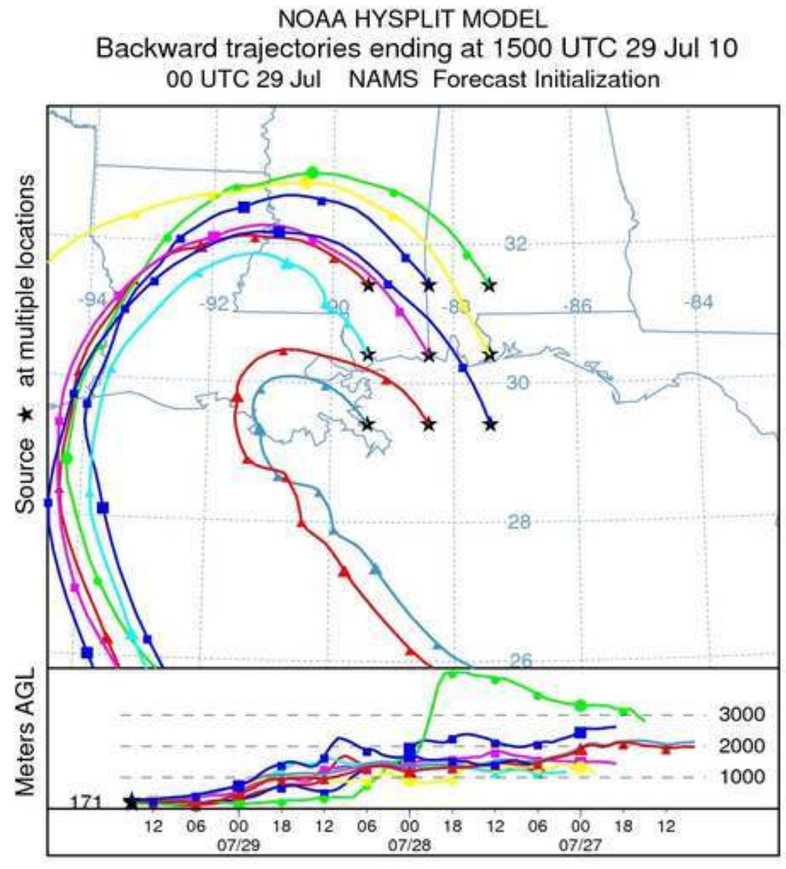
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

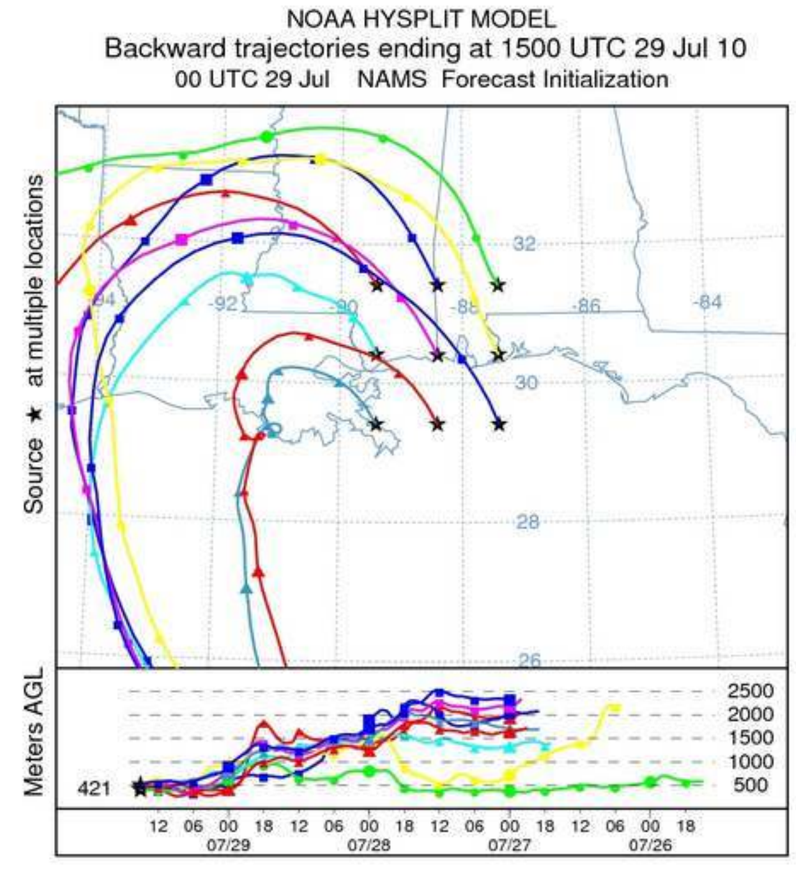
Profile Time: 10 7 29 14 0
Profile Location: 30.41 -88.40 (335,110)

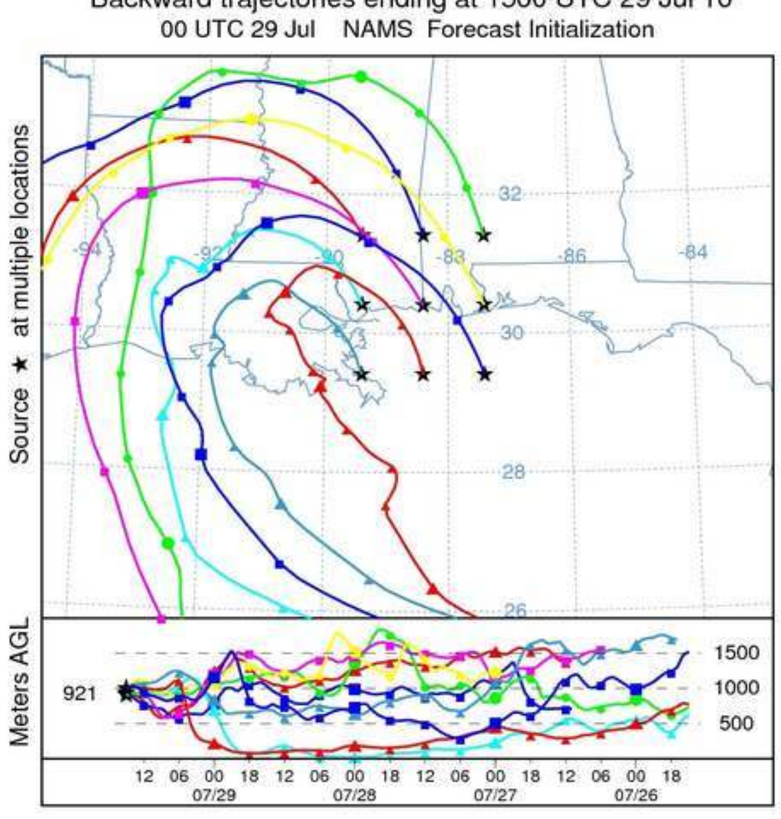
	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1019	0	1020	0	29.6	70.0	4.1	-3.8	1019	215	18.9	0.18	0	576	789

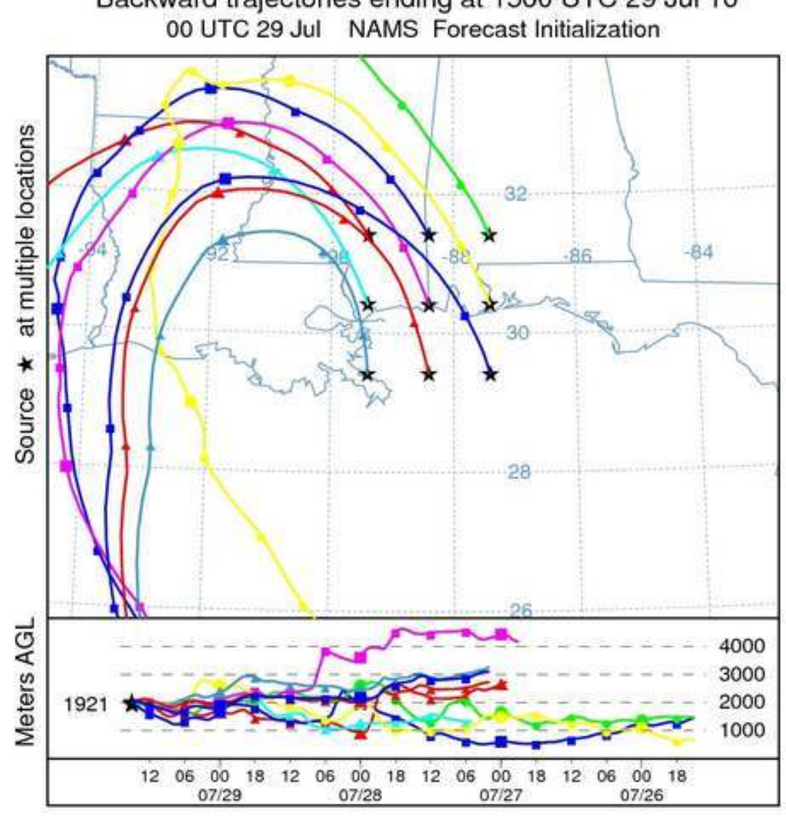
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1017	28.7	4.7	-4.4	0.88	16.4	0.48	300.4	3.5	-5.4
1012	28.3	4.6	-4.4	2.3	16.3	0.60	300.4	3.4	-5.3
1007	27.8	5.0	-4.4	3.2	16.2	0.60	300.4	3.8	-5.5
1002	27.4	5.0	-4.5	5.5	16.2	0.60	300.4	3.8	-5.6
997	27.0	4.9	-4.6	4.6	16.1	0.60	300.4	3.7	-5.6
992	26.5	5.4	-4.9	5.5	15.9	0.72	300.3	4.1	-6.0
987	26.2	5.4	-5.2	4.8	15.2	0.60	300.5	4.1	-6.3
981	25.7	5.8	-5.8	7.1	15.0	0.75	300.5	4.2	-7.0
976	25.3	6.2	-6.4	7.4	14.9	0.50	300.5	4.5	-7.7
970	25.1	6.5	-7.3	7.8	13.8	0.65	300.9	4.6	-8.6
964	24.8	6.9	-7.8	9.5	13.4	0.45	301.1	4.8	-9.2
958	24.5	7.3	-8.1	11.9	13.1	0.45	301.3	5.1	-9.6
952	24.1	7.7	-8.2	10.6	12.8	0.33	301.5	5.5	-9.8
945	23.7	7.8	-8.1	10.2	12.7	0.20	301.7	5.6	-9.7
938	23.2	8.2	-8.1	10.5	12.6	0.20	301.8	6.0	-9.9
930	22.7	8.4	-7.8	10.5	12.4	0.20	302.1	6.3	-9.6
921	21.9	8.5	-7.7	10.5	12.5	0.20	302.1	6.4	-9.5
900	20.0	8.8	-7.6	5.8	12.6	0.20	302.2	6.7	-9.4
873	18.0	9.3	-8.3	7.0	11.5	0.20	302.8	7.0	-10.3
842	15.9	8.3	-9.2	8.6	11.7	0.20	303.6	5.8	-11.0
808	13.9	5.9	-8.1	10.5	11.4	0.20	305.1	3.8	-9.2
771	12.0	3.7	-6.2	7.0	10.1	0.20	307.2	2.1	-6.9
732	9.8	2.0	-4.1	7.0	8.3	0.20	309.3	0.9	-4.4
691	7.1	1.7	-4.0	3.5	6.8	0.20	311.6	0.7	-4.3
647	4.7	3.5	-5.2	3.5	5.4	0.20	314.8	2.2	-5.9
600	1.5	6.2	-6.2	7.0	3.4	0.20	317.8	4.5	-7.5
552	-2.6	6.4	-5.0	7.0	2.3	0.20	320.7	5.0	-6.4
503	-7.6	2.8	-2.2	5.3	1.7	0.20	323.2	2.2	-2.9
454	-12.4	-2.1	1.3	1.8	1.2	0.20	326.8	-1.7	1.8
404	-18.5	-4.9	-0.97	0	0.63	0.20	329.9	-5.0	0.2
354	-26.5	-6.3	0	0	0.31	0.20	331.8	-6.2	1.5
306	-34.1	-6.7	6.0	0	0.17	0.20	335.5	-5.1	7.4
261	-41.9	-7.6	12.2	0	1E-1	0.20	339.7	-4.4	13.7
221	-50.6	-11.4	13.2	-3.6	1E-1	0.20	342.6	-7.9	15.5
184	-61.2	-6.2	5.6	-3.6	3E-2	0.20	344.1	-4.7	6.9
139	-72.2	-7.6	0.60	-0.97	1E-2	0.20	353.7	-7.2	2.4
88	-64.6	-12.4	-4.3	0.33	1E-2	0.20	417.3	-13.1	-1.2
63	-59.1	-16.3	-2.0	0.60	1E-2	0.20	471.6	-16.3	1.9
38	-48.4	-27.2	-6.7	0.16	3E-2	0.20	573.0	-28.0	0.0

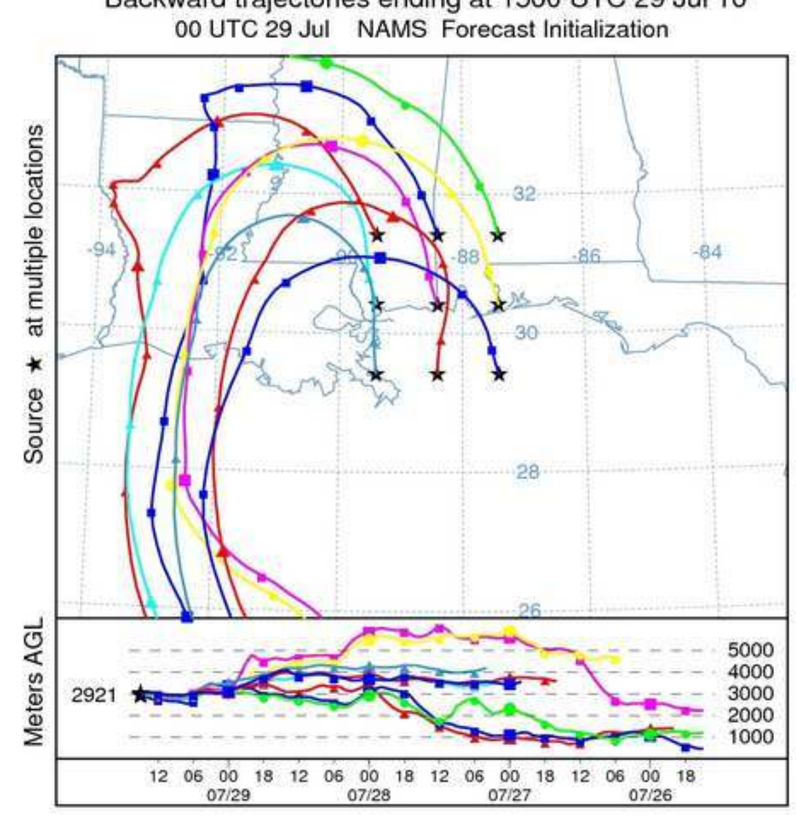

FORECAST for 2010_07_29, local hour = 10
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 1500 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
171
3000
2000
1000
07/29
07/28
07/27

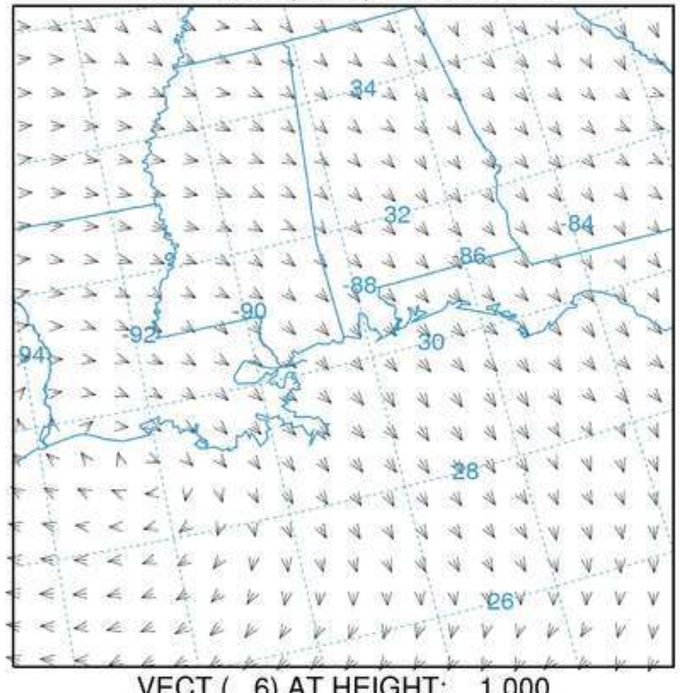

NOAA HYSPLIT MODEL
Backward trajectories ending at 1500 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1500 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
921
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1500 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1921
4000
3000
2000
1000
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1500 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
5000
4000
3000
2000
1000
07/29
07/28
07/27
07/26

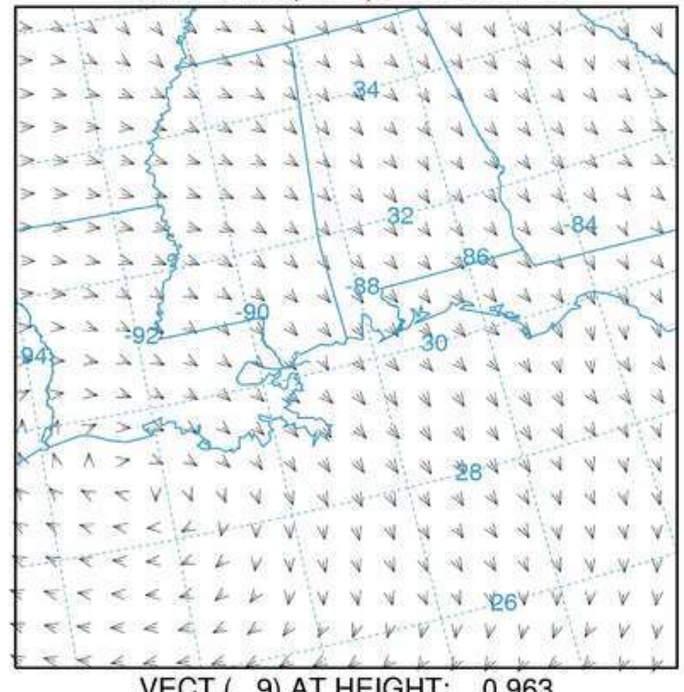
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/15



VECT (6) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

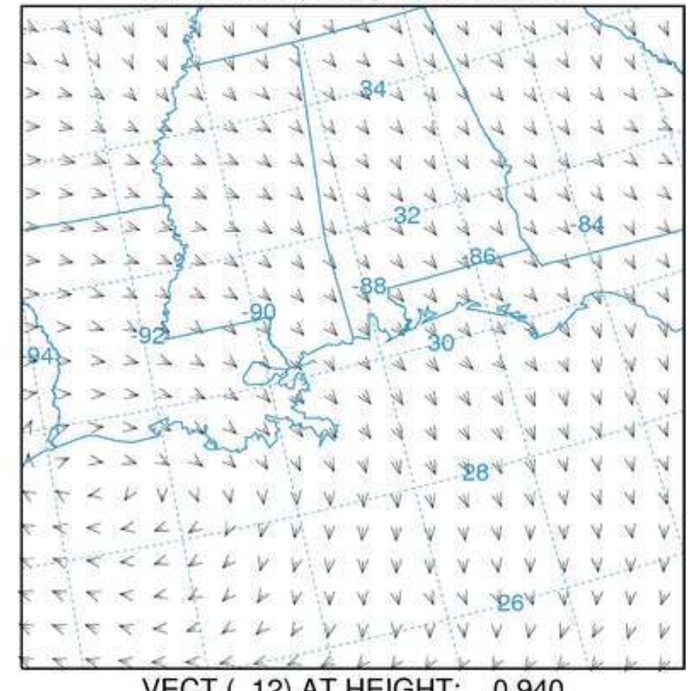
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/15



VECT (9) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

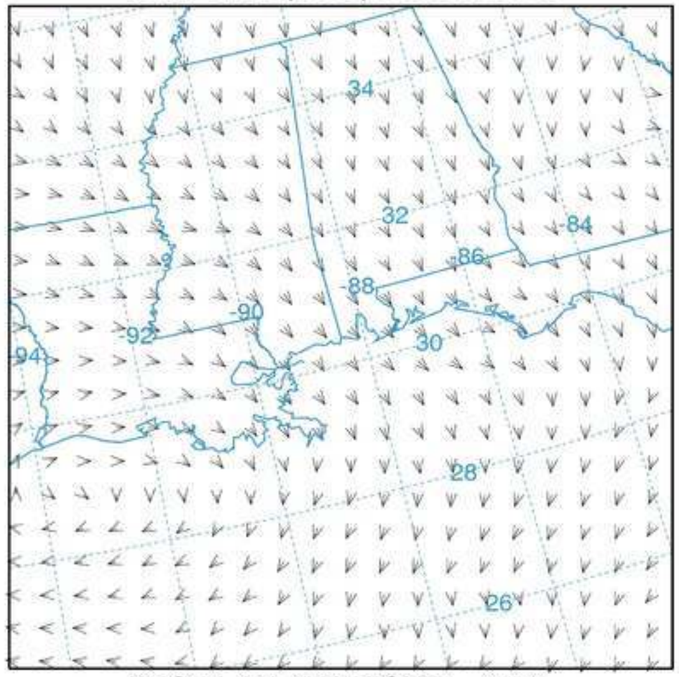
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/15



VECT (12) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

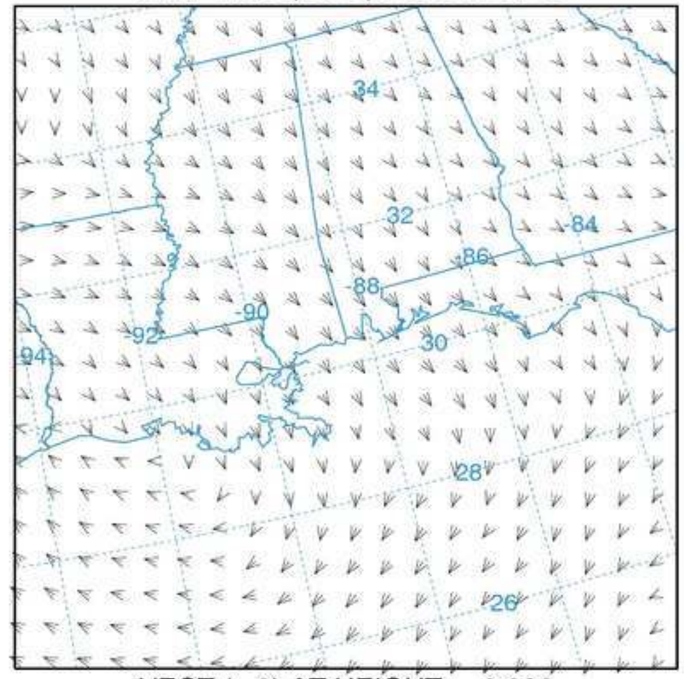
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/15



VECT (11) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

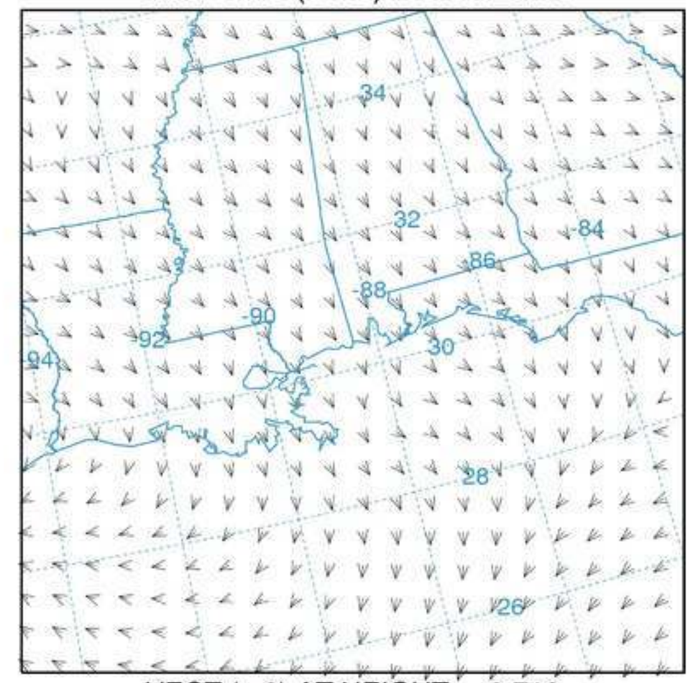
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/15



VECT (9) AT HEIGHT: 0.826

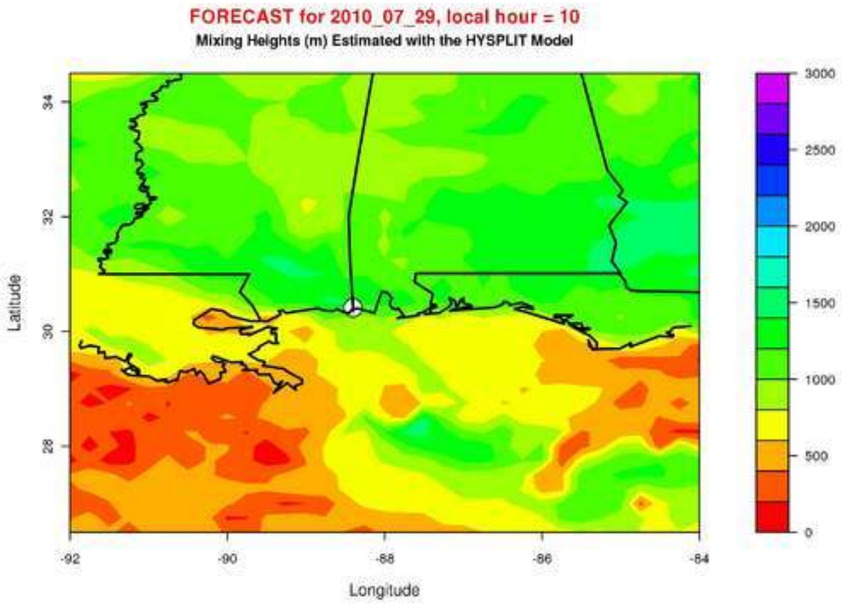
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

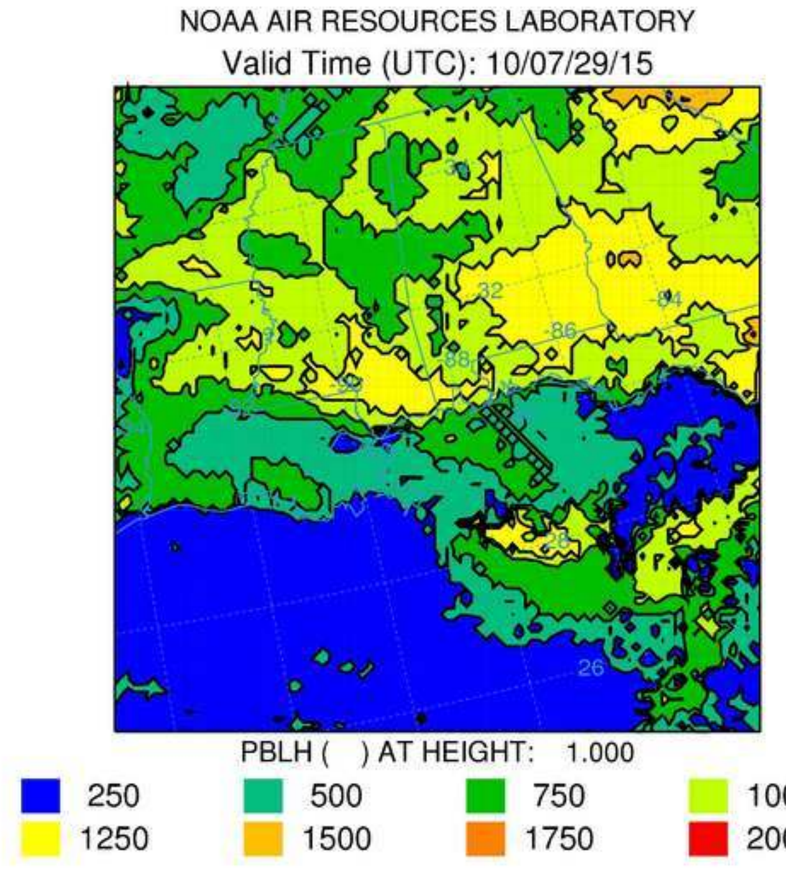
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/15

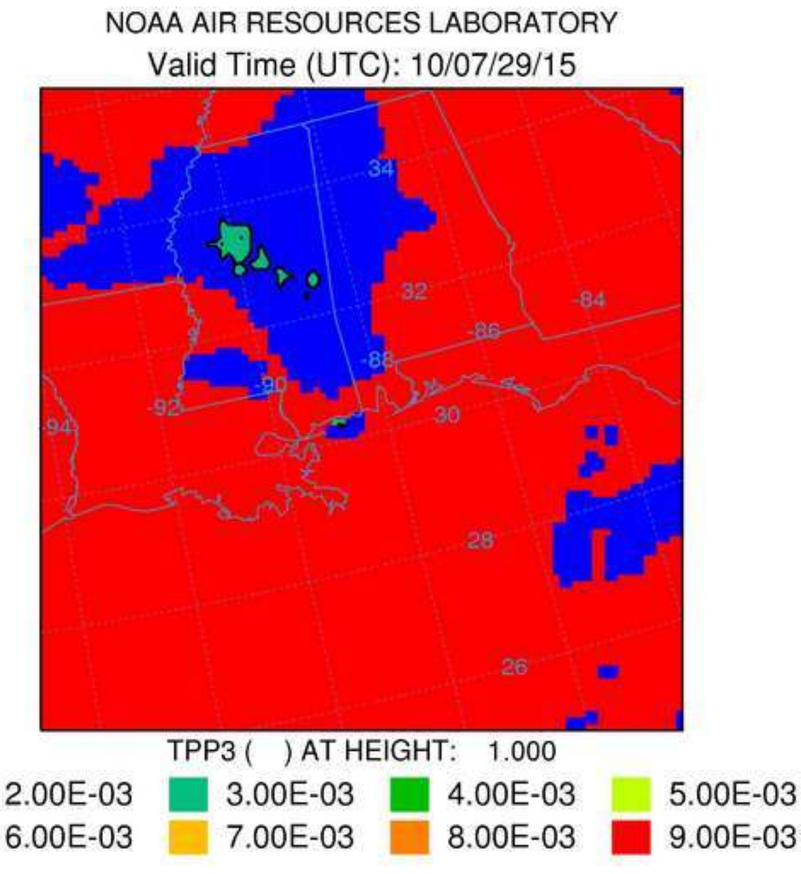


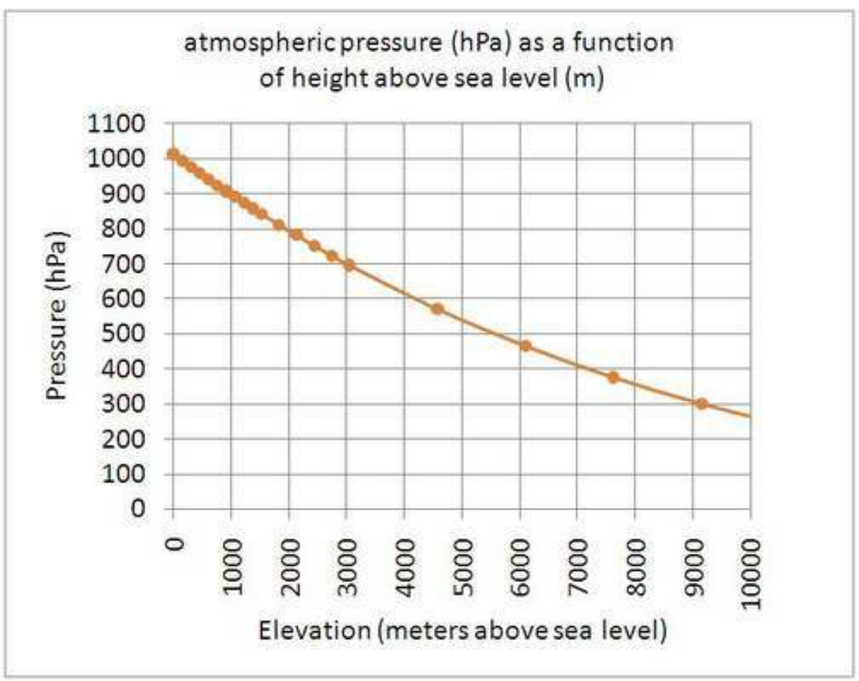
VECT (8) AT HEIGHT: 0.718

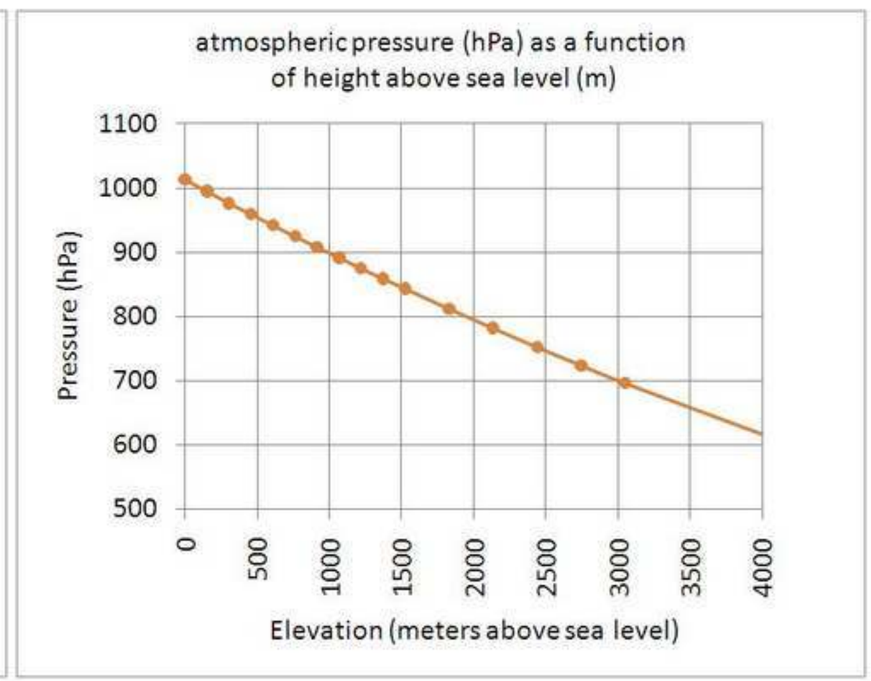
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 10
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/15
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/15
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

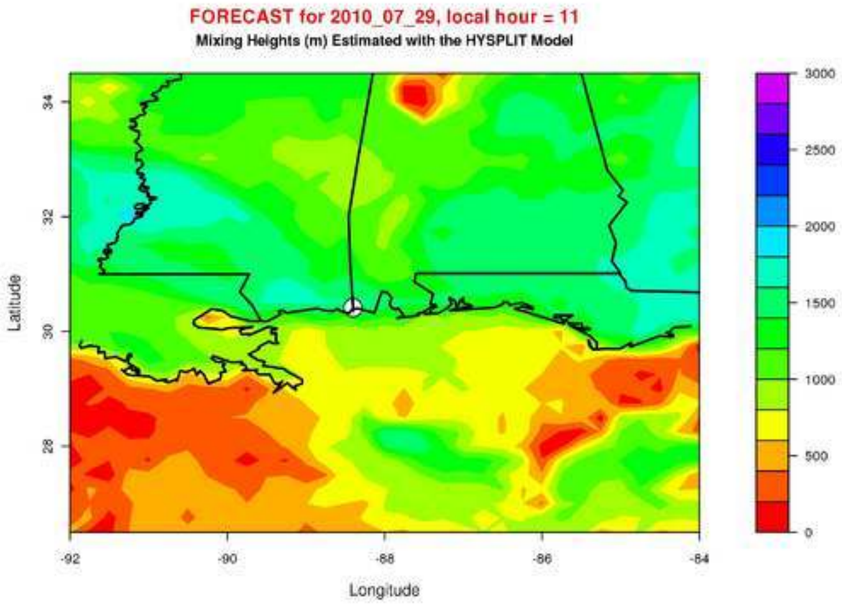
Meteorological Profile: hysplit.t00z.namsf

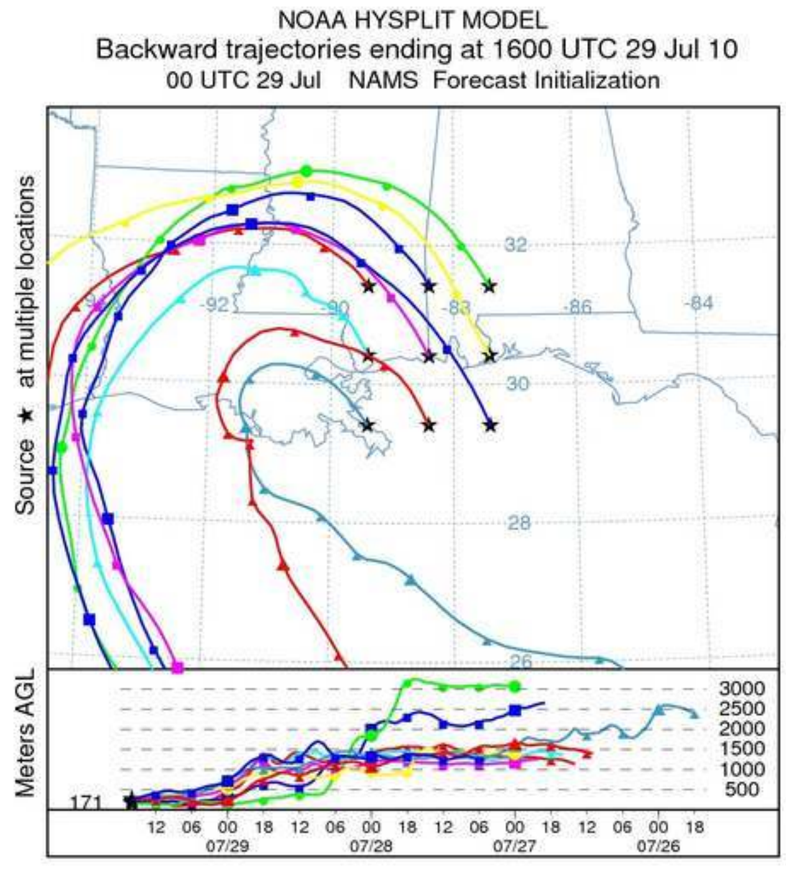
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

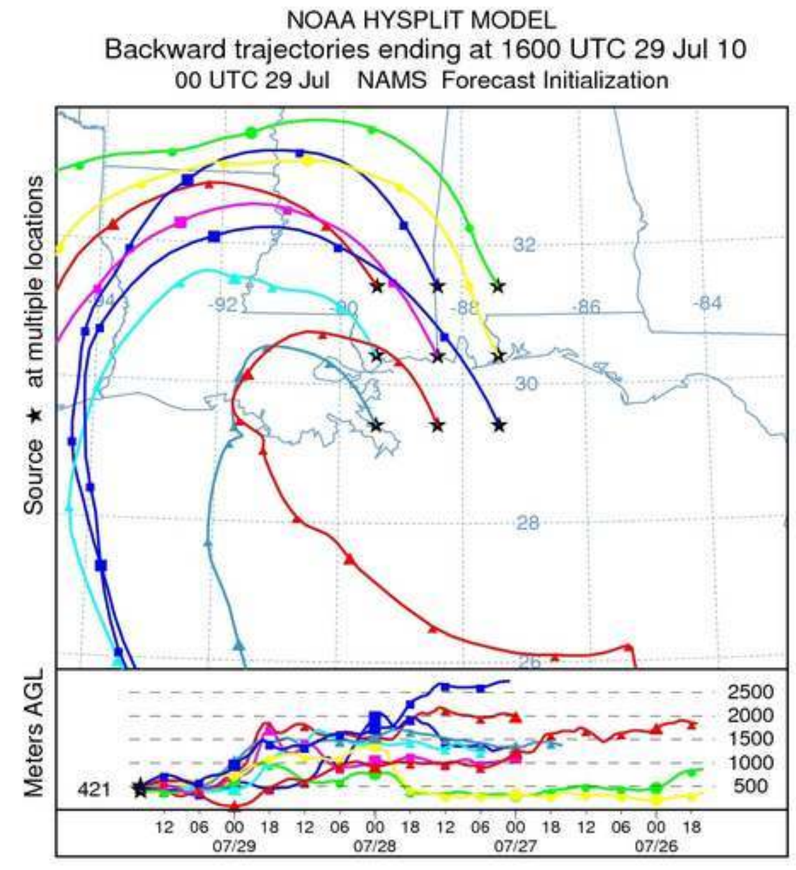
Profile Time: 10 7 29 15 0
Profile Location: 30.41 -88.40 (335,110)

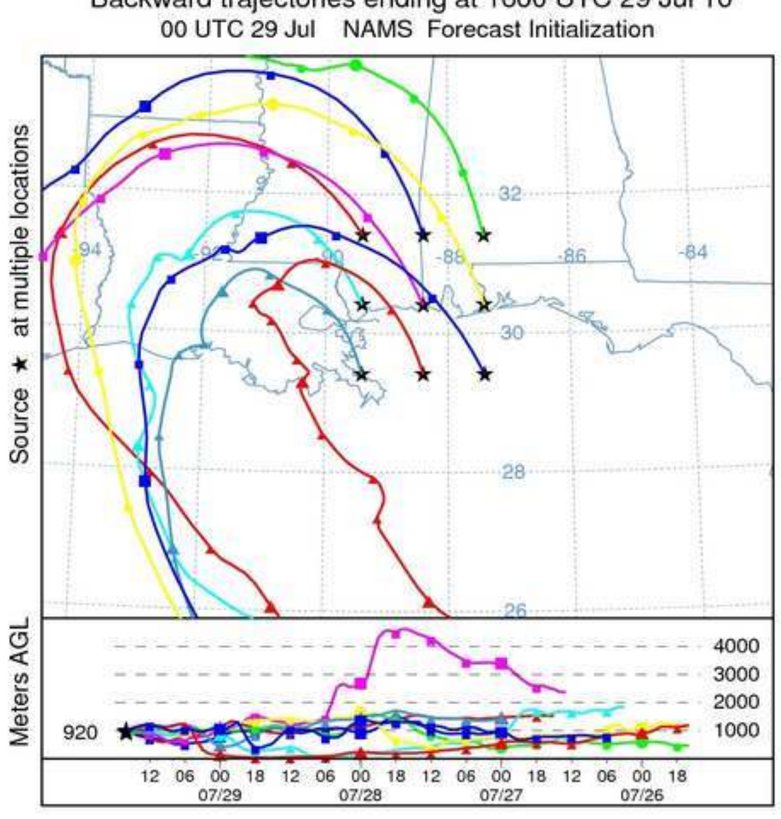
SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1020	0	1020	0	30.3	65.0	4.1	-4.2	1020	230	7.8	0.18	0	760	1326

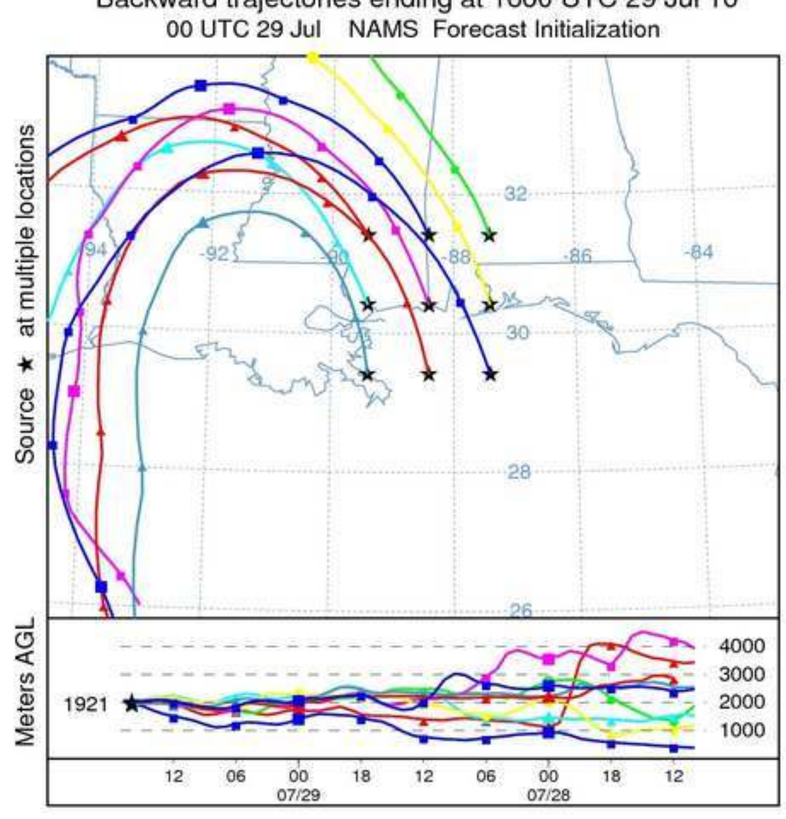
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1018	29.7	4.5	-4.7	3.5	15.7	0.72	301.3	3.2	-5.6
1013	29.0	4.4	-4.8	2.6	15.6	0.83	301.1	3.1	-5.7
1008	28.6	4.8	-4.8	1.1	15.6	0.95	301.0	3.5	-5.9
1003	28.3	4.8	-4.9	1.9	15.6	0.95	301.2	3.4	-5.9
998	27.8	4.7	-4.9	1.6	15.6	0.95	301.2	3.4	-5.9
993	27.3	4.7	-5.0	0	15.6	0.95	301.1	3.4	-6.0
988	26.8	4.6	-5.0	0	15.5	0.97	301.0	3.3	-6.0
982	26.3	5.0	-5.1	0	15.5	1.0	301.0	3.6	-6.1
977	25.8	5.2	-5.4	0	15.5	1.2	301.0	3.7	-6.5
971	25.3	5.0	-5.5	0	15.4	1.2	301.0	3.5	-6.5
965	24.7	5.3	-5.9	-1.9	15.4	1.2	300.9	3.7	-7.0
959	24.3	5.6	-6.4	0	15.4	0.90	301.0	3.9	-7.6
952	23.6	6.0	-7.0	0	15.2	1.0	300.9	4.1	-8.2
946	23.2	6.5	-7.6	0	14.6	0.95	301.1	4.5	-8.9
938	22.6	7.6	-8.3	4.6	14.1	0.95	301.2	5.4	-9.9
931	22.3	7.9	-9.0	6.5	13.5	0.95	301.6	5.6	-10.6
922	21.7	8.8	-9.0	10.5	13.2	0.83	301.8	6.4	-10.8
901	20.0	8.9	-9.0	7.0	12.7	0.20	302.1	6.5	-10.9
873	18.1	8.7	-9.5	9.0	12.4	0.20	302.8	6.2	-11.4
842	16.1	6.9	-9.5	7.0	12.0	0.20	303.9	4.4	-10.8
808	14.6	4.6	-7.4	7.0	11.0	0.20	305.8	2.7	-8.3
772	12.6	3.2	-6.0	7.0	9.5	0.20	307.8	1.7	-6.6
733	10.2	2.5	-3.9	7.0	8.1	0.20	309.7	1.5	-4.4
691	7.4	2.5	-3.9	0	6.7	0.20	311.8	1.5	-4.4
647	4.8	3.1	-5.5	0	5.4	0.20	314.8	1.7	-6.0
601	1.7	5.8	-6.6	0	3.5	0.20	317.9	4.1	-7.8
553	-2.4	5.6	-5.5	0	2.3	0.20	320.8	4.1	-6.7
504	-7.3	1.7	-2.0	2.2	1.6	0.20	323.5	1.2	-2.3
454	-12.3	-2.4	1.8	2.3	1.2	0.20	326.9	-1.9	2.4
404	-18.5	-5.3	-0.72	0	0.60	0.20	329.8	-5.3	0.6
355	-26.5	-6.5	0.63	2.8	0.31	0.20	331.9	-6.2	2.2
306	-33.7	-5.3	7.3	4.7	0.17	0.20	336.1	-3.4	8.4
261	-42.0	-6.4	11.4	3.5	0.11	0.20	339.6	-3.5	12.6
221	-50.6	-10.7	11.1	3.3	1E-1	0.20	342.5	-7.7	13.3
184	-61.3	-6.9	4.8	0	3E-2	0.20	344.0	-5.6	6.3
139	-71.8	-7.6	0	0.32	1E-2	0.20	354.4	-7.4	1.8
89	-65.1	-11.7	-3.8	-0.82	1E-2	0.20	416.3	-12.3	-0.9
63	-58.9	-15.2	-1.0	-0.42	1E-2	0.20	471.9	-15.0	2.6
38	-48.1	-27.8	-6.9	0.11	3E-2	0.20	573.7	-28.6	0.0

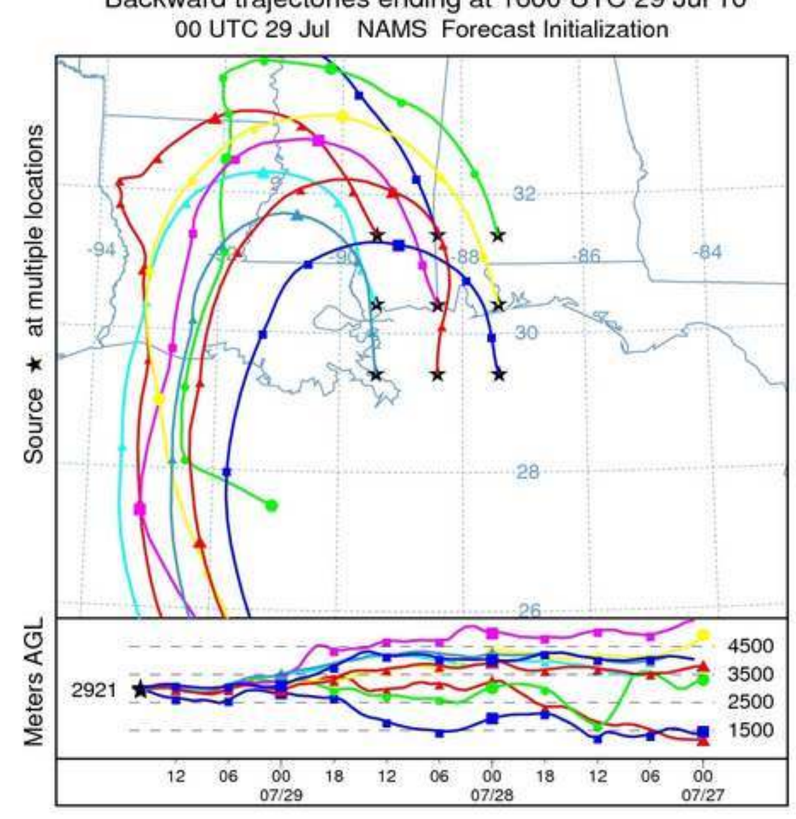

FORECAST for 2010_07_29, local hour = 11
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 1600 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
171
07/29
07/28
07/27
07/26

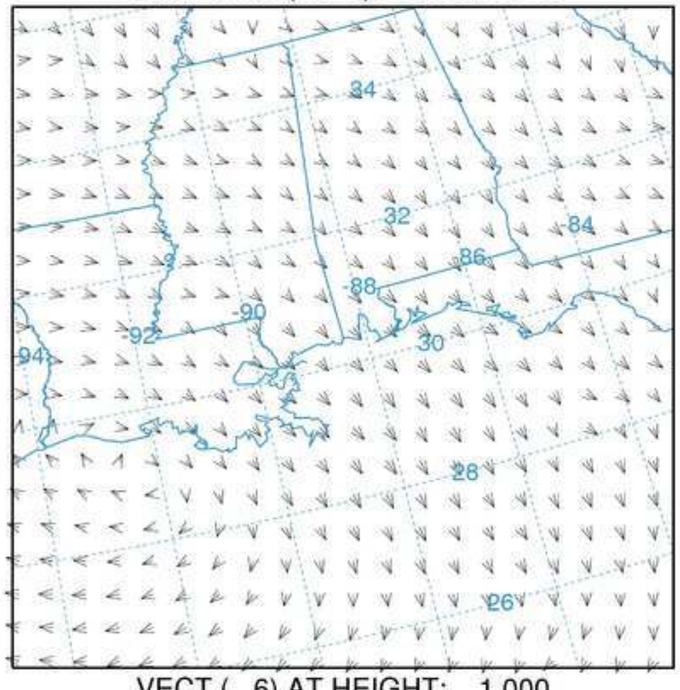

NOAA HYSPLIT MODEL
Backward trajectories ending at 1600 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1600 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
920
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1600 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1921
07/29
07/28


NOAA HYSPLIT MODEL
Backward trajectories ending at 1600 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
07/29
07/28
07/27

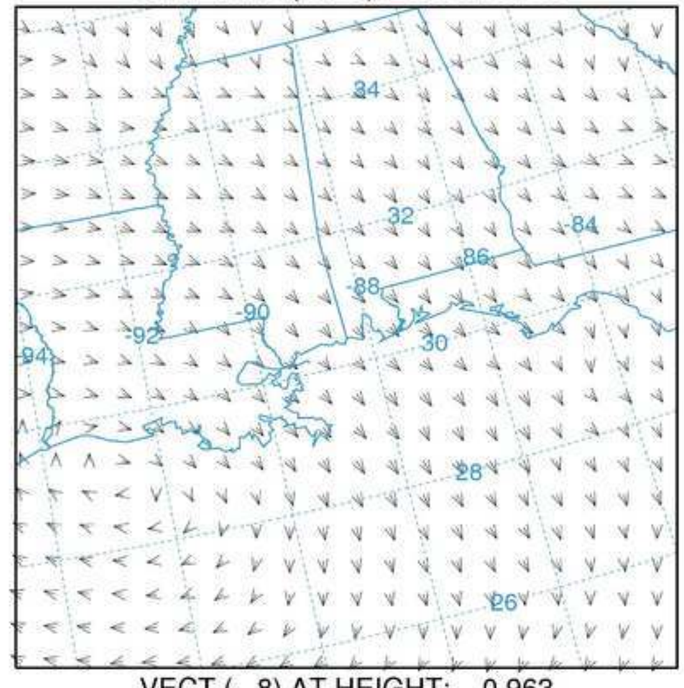
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/16



VECT (6) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

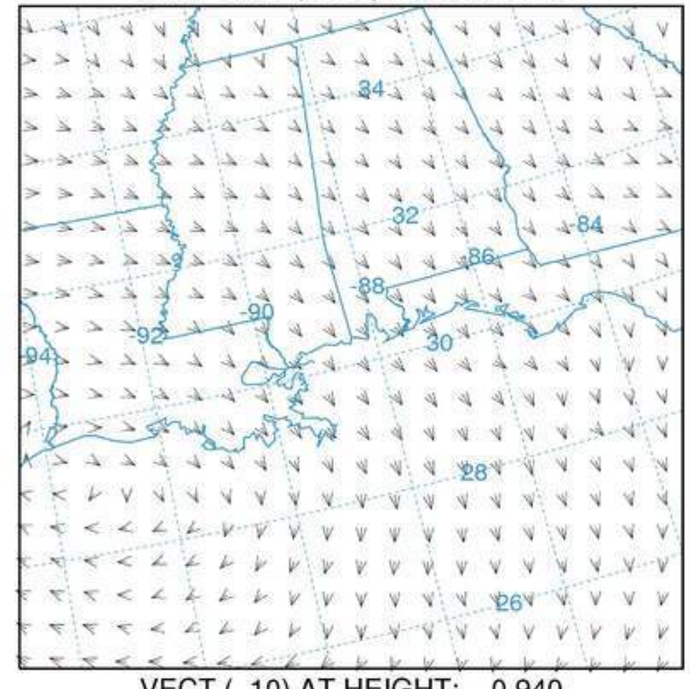
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/16



VECT (8) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

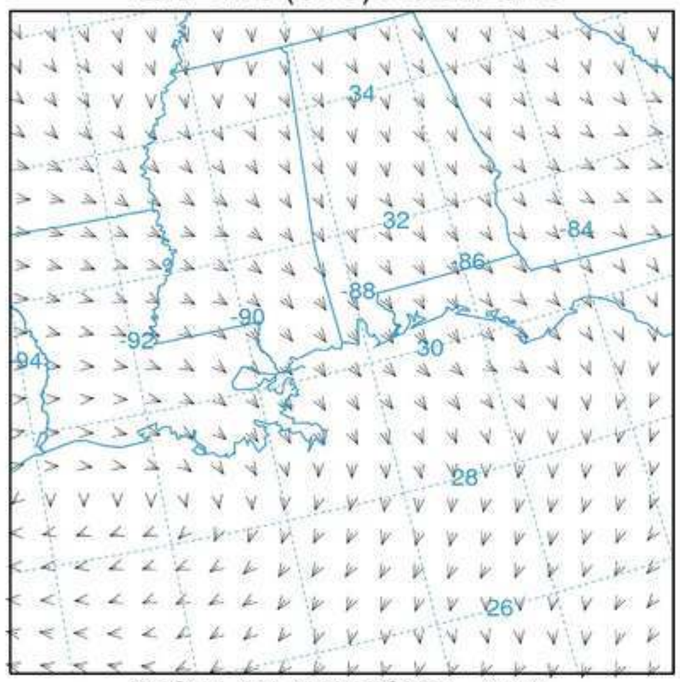
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/16



VECT (10) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

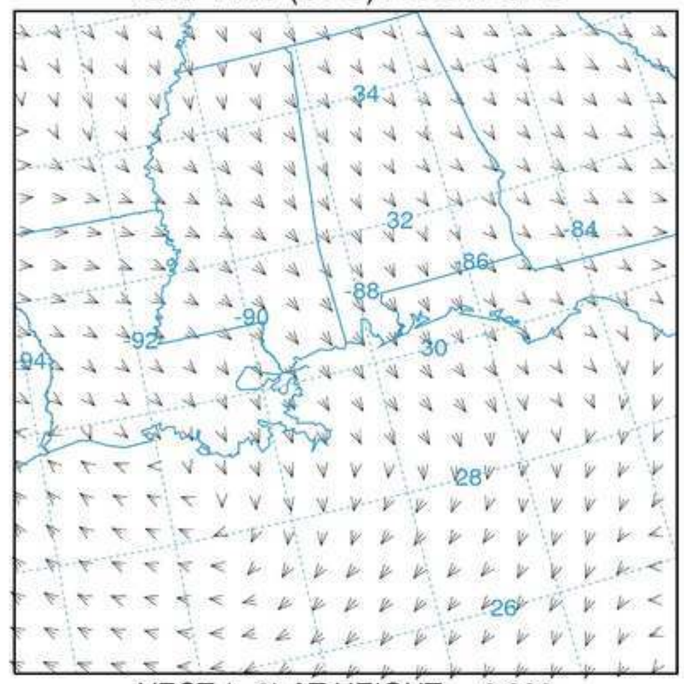
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/16



VECT (11) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

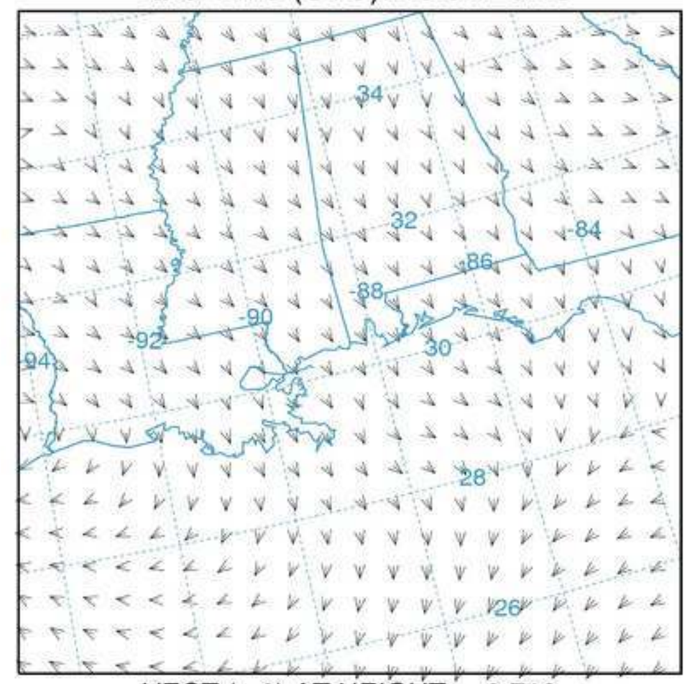
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/16



VECT (9) AT HEIGHT: 0.826

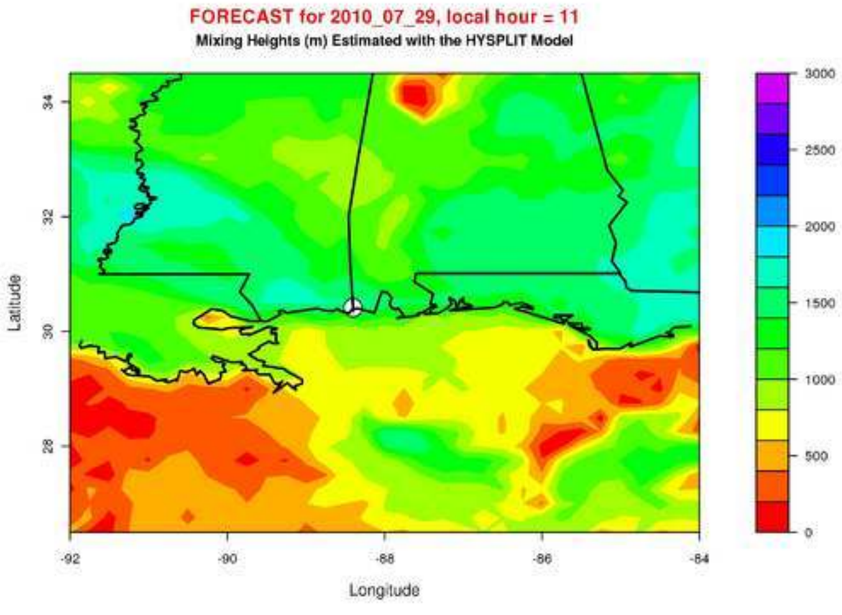
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

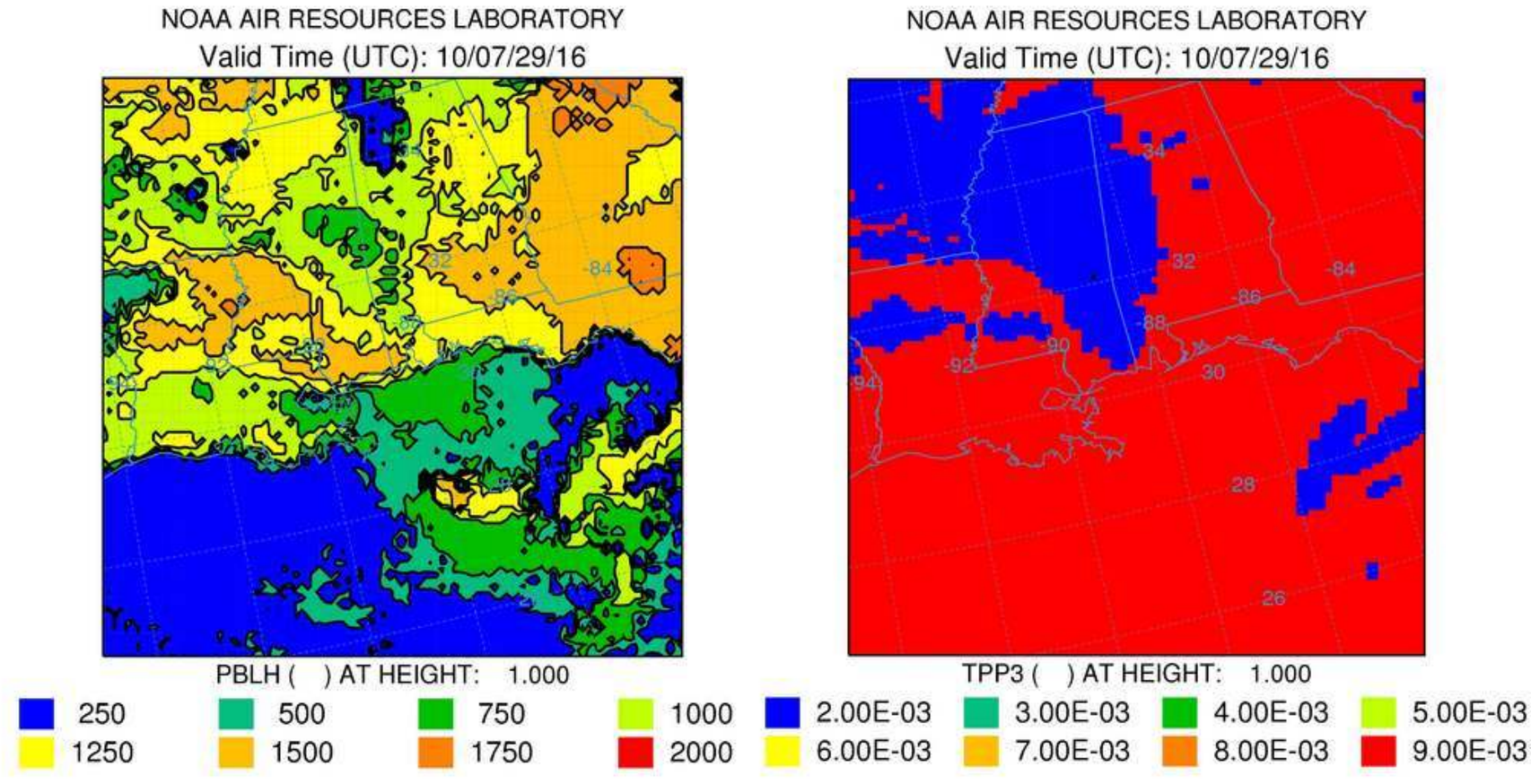
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/16

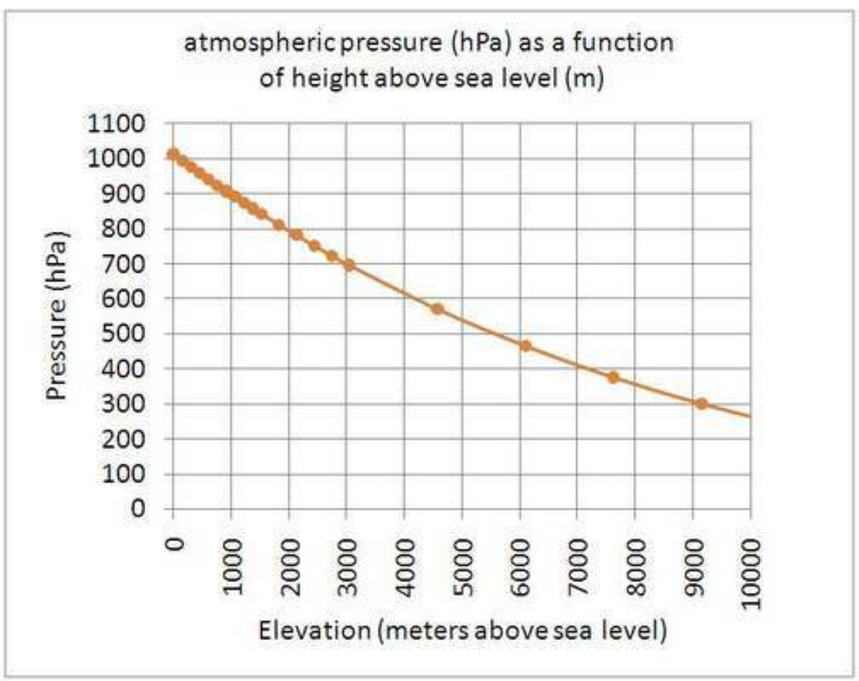


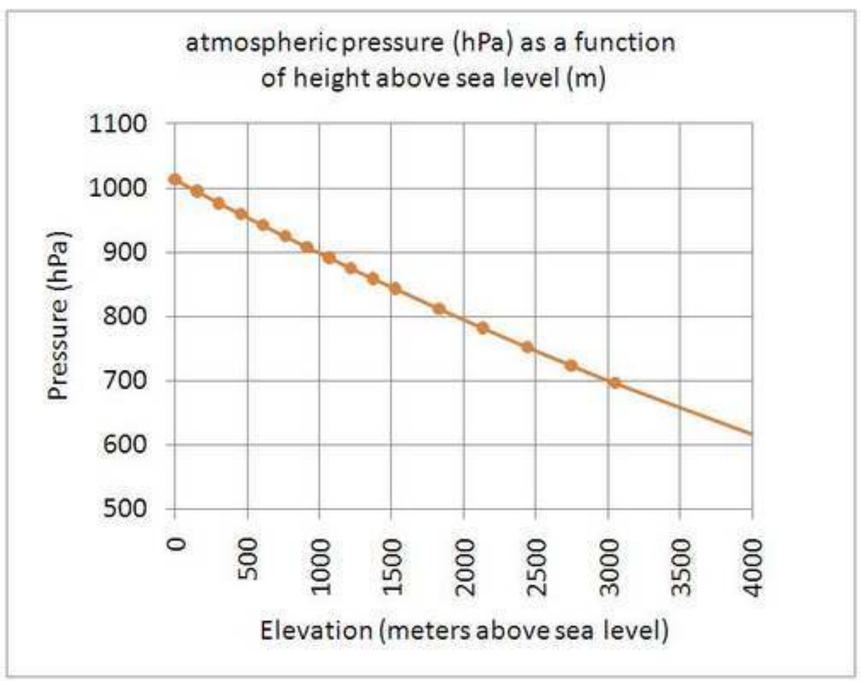
VECT (9) AT HEIGHT: 0.718

Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 11
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/16
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/16
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Elevation (meters above sea level)


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000
Elevation (meters above sea level)

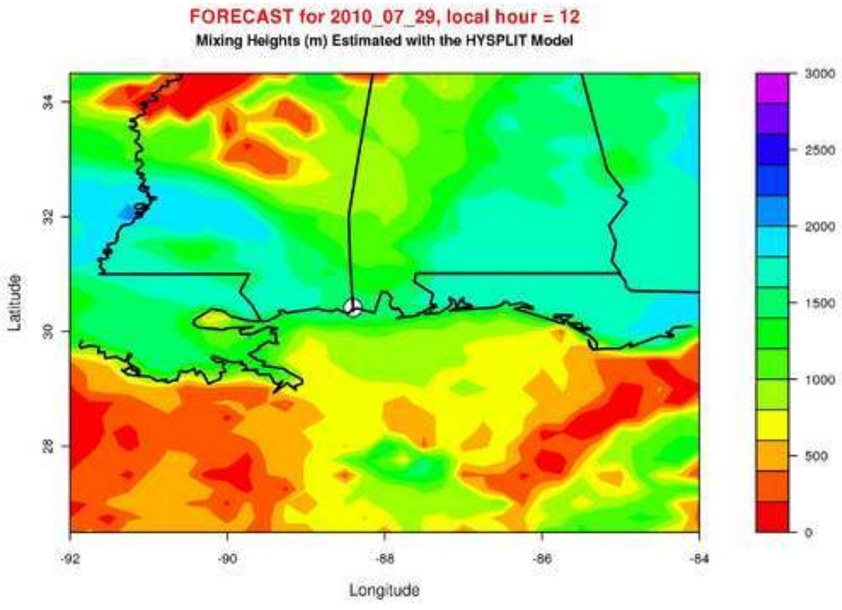
Meteorological Profile: hysplit.t00z.namsf

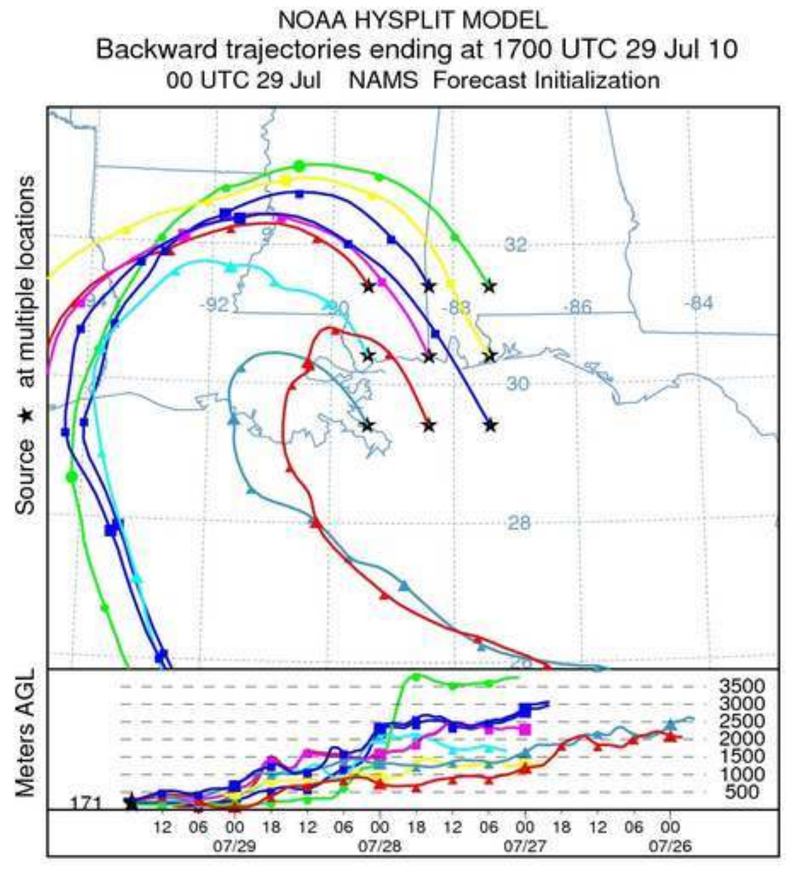
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

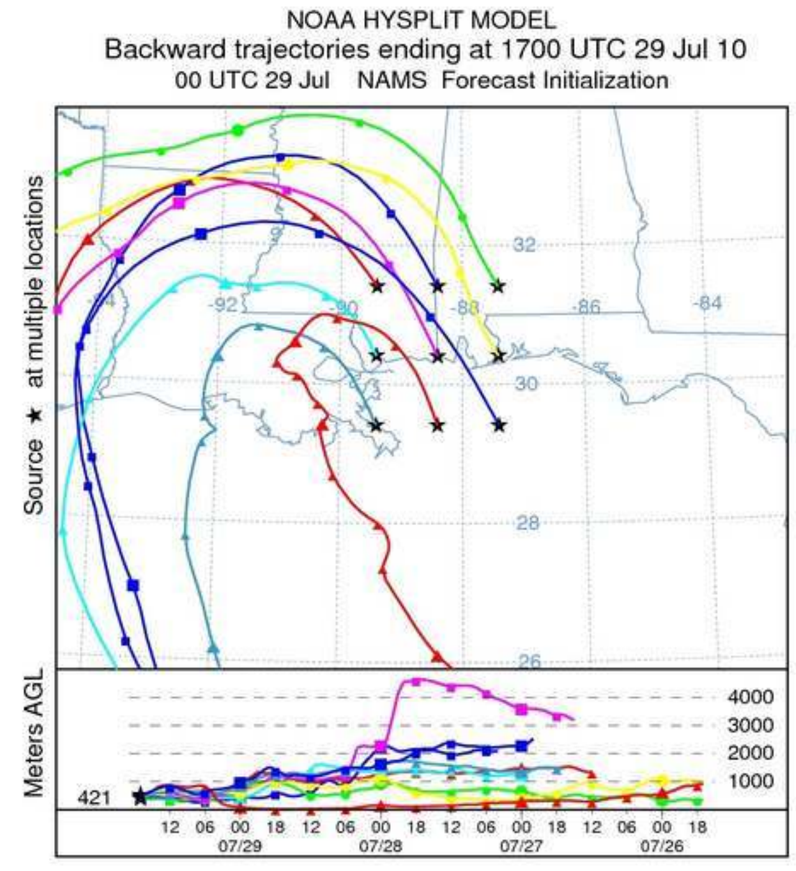
Profile Time: 10 7 29 16 0
Profile Location: 30.41 -88.40 (335,110)

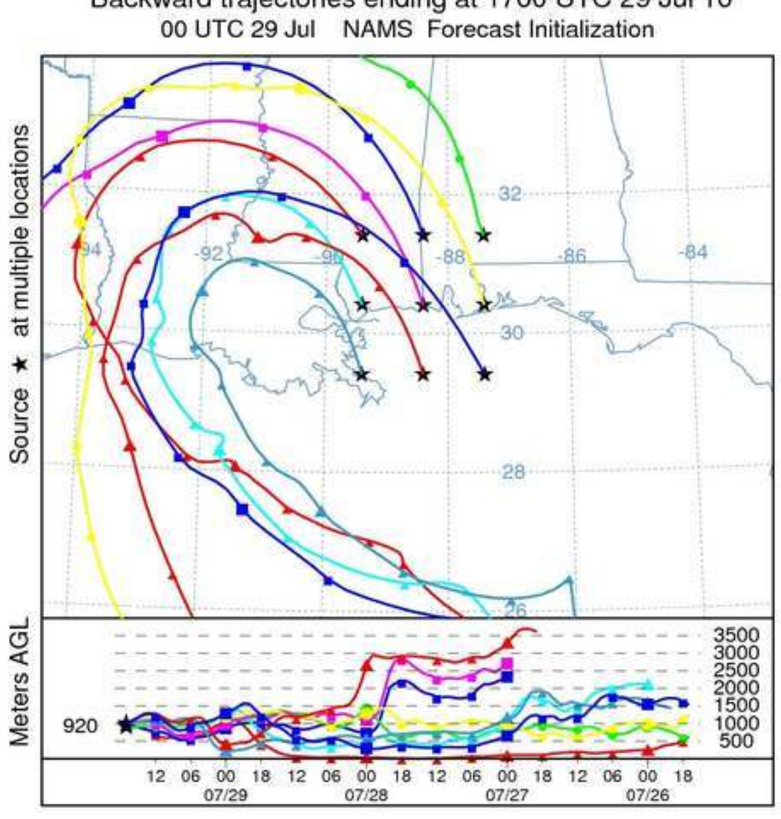
SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1020	0	1020	0	30.6	64.0	4.4	-4.7	1020	237	8.8	0.20	0	452	1619

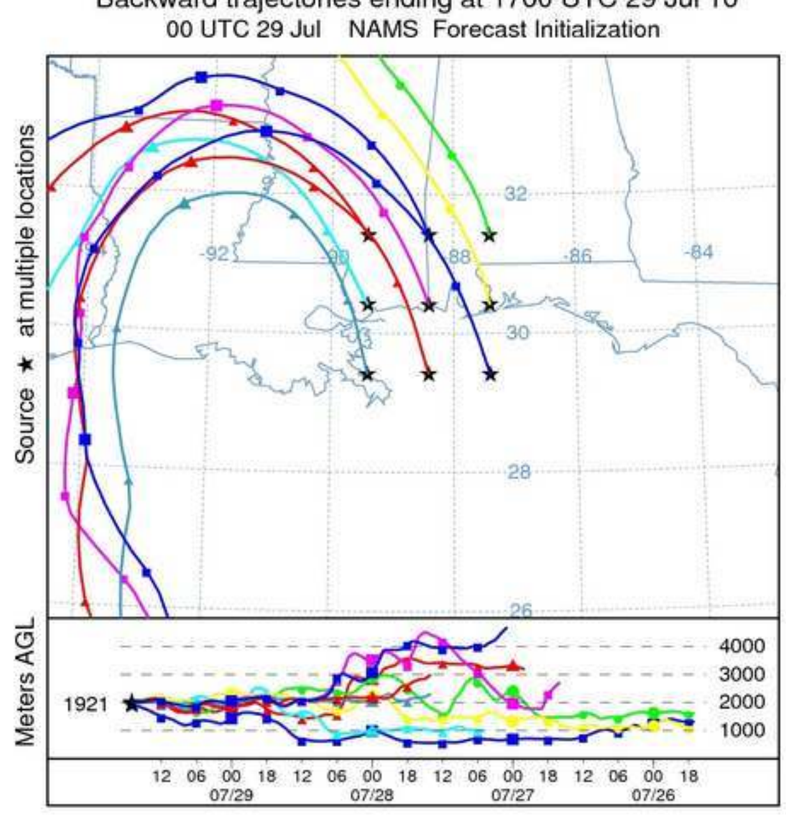
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1018	30.0	5.1	-5.3	1.3	15.8	0.79	301.6	3.6	-6.4
1013	29.6	5.0	-5.4	1.8	15.7	0.97	301.6	3.5	-6.4
1008	29.1	4.9	-5.5	2.2	15.7	1.1	301.6	3.5	-6.5
1003	28.7	4.9	-5.6	0	15.6	1.1	301.6	3.4	-6.6
998	28.2	4.9	-5.6	0	15.7	1.2	301.6	3.4	-6.6
993	27.8	5.3	-5.7	0	15.6	1.2	301.5	3.8	-6.8
988	27.3	5.1	-5.8	0	15.6	1.3	301.6	3.6	-6.8
982	26.9	5.2	-5.9	0	15.5	1.3	301.6	3.7	-7.0
977	26.3	5.5	-5.9	-2.0	15.6	1.3	301.5	3.9	-7.0
971	25.7	5.2	-6.0	0	15.5	1.3	301.4	3.6	-7.0
965	25.2	5.2	-6.1	-1.9	15.5	1.3	301.4	3.6	-7.2
959	24.6	5.5	-6.3	-1.4	15.4	1.3	301.3	3.8	-7.4
953	24.1	5.6	-6.3	-1.3	15.5	1.3	301.4	4.0	-7.5
946	23.4	5.2	-6.5	-1.1	15.5	1.2	301.3	3.5	-7.5
939	22.7	5.4	-6.6	-2.4	15.4	1.2	301.3	3.6	-7.7
931	21.9	5.8	-7.0	0	15.3	1.3	301.2	4.0	-8.2
922	21.0	6.1	-7.2	0	15.4	1.2	301.0	4.2	-8.5
901	19.8	7.5	-10.1	3.7	13.5	0.82	301.8	4.9	-11.6
874	18.3	7.9	-10.6	5.3	12.5	0.20	303.0	5.1	-12.2
843	16.8	6.3	-10.0	3.5	11.5	0.20	304.5	3.7	-11.3
808	14.8	5.0	-7.7	1.8	10.6	0.20	306.0	3.0	-8.7
772	12.8	3.5	-6.1	0	9.4	0.20	307.9	2.0	-6.8
733	10.4	3.4	-4.3	0	8.2	0.20	309.9	2.3	-4.9
692	7.6	3.0	-4.2	-3.8	7.0	0.20	311.9	1.9	-4.7
648	4.7	3.3	-5.4	0	5.7	0.20	314.6	1.9	-6.0
601	1.7	5.2	-6.3	14.1	3.7	0.20	318.0	3.5	-7.4
553	-2.1	4.8	-5.5	10.5	2.4	0.20	321.1	3.4	-6.5
504	-7.0	1.4	-2.1	11.0	1.6	0.20	323.9	0.8	-2.4
455	-12.1	-1.6	1.8	8.3	1.1	0.20	327.1	-1.2	2.2
405	-18.5	-4.5	-0.86	6.0	0.58	0.20	329.9	-4.6	0.3
355	-26.3	-5.4	1.2	5.6	0.30	0.21	332.0	-5.0	2.5
306	-33.4	-3.6	7.4	4.1	0.17	0.20	336.4	-1.7	8.0
261	-42.0	-7.0	10.1	0	0.12	0.20	339.5	-4.3	11.5
221	-50.5	-11.4	9.1	0	1E-1	0.20	342.8	-8.9	11.6
184	-61.4	-7.6	5.7	-3.1	3E-2	0.20	343.8	-6.0	7.3
139	-72.0	-8.4	-1.6	-2.7	1E-2	0.20	354.0	-8.6	0.5
89	-65.1	-11.7	-3.5	-0.28	1E-2	0.20	416.1	-12.2	-0.6
63	-58.8	-14.3	-1.3	0.15	1E-2	0.20	472.1	-14.2	2.1
38	-47.7	-28.0	-6.9	-0.11	3E-2	0.20	574.7	-28.9	0.0

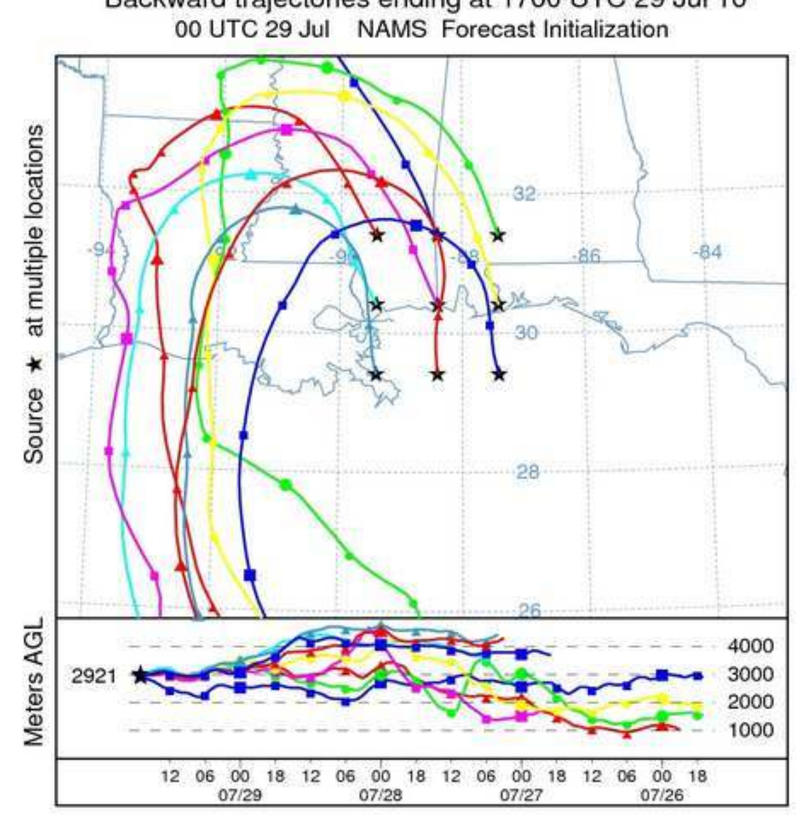

FORECAST for 2010_07_29, local hour = 12
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 1700 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
171
07/29
07/28
07/27
07/26

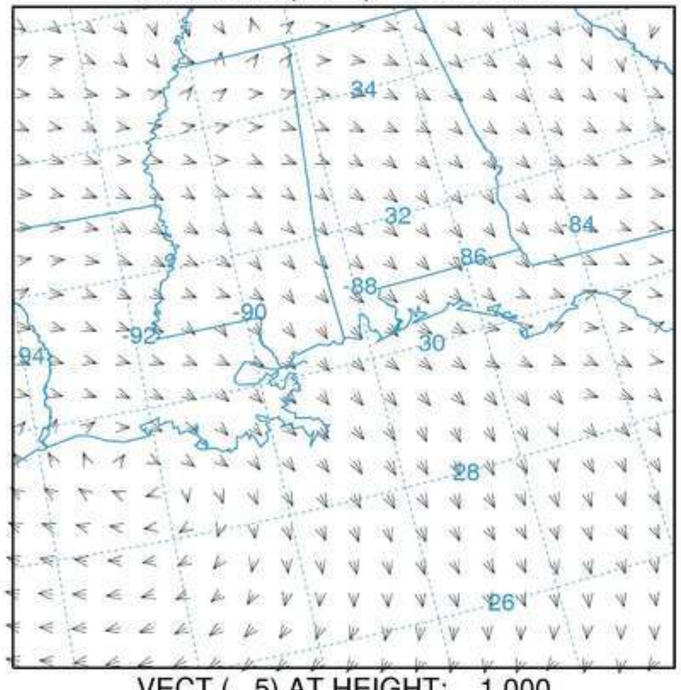

NOAA HYSPLIT MODEL
Backward trajectories ending at 1700 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1700 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
920
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1700 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1921
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1700 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
07/29
07/28
07/27
07/26

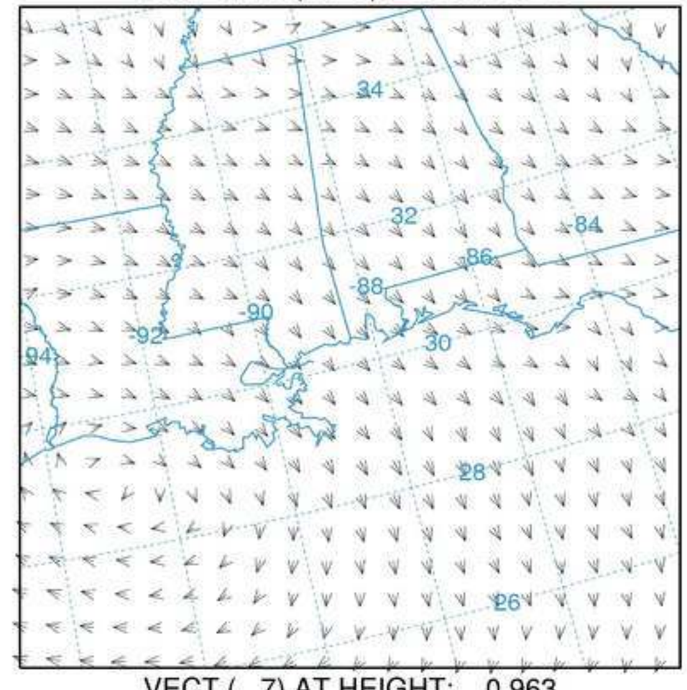
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/17



VECT (5) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

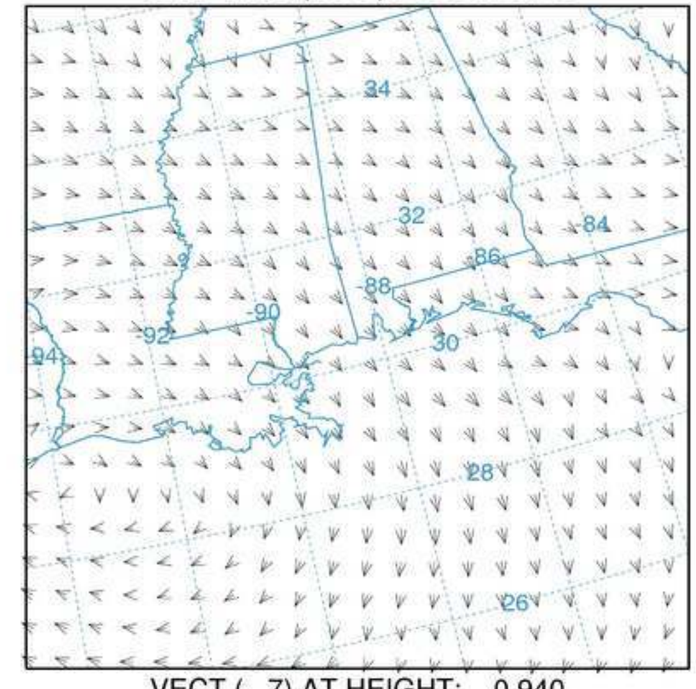
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/17



VECT (7) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

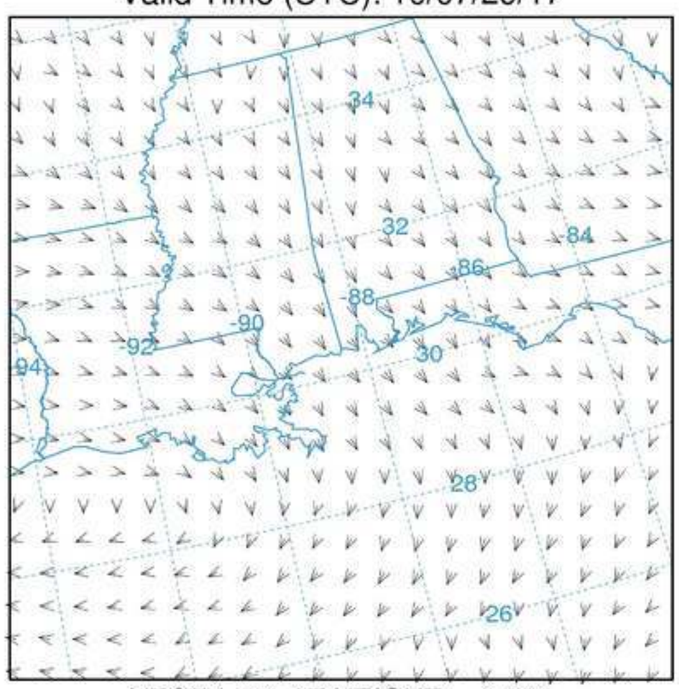
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/17



VECT (7) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

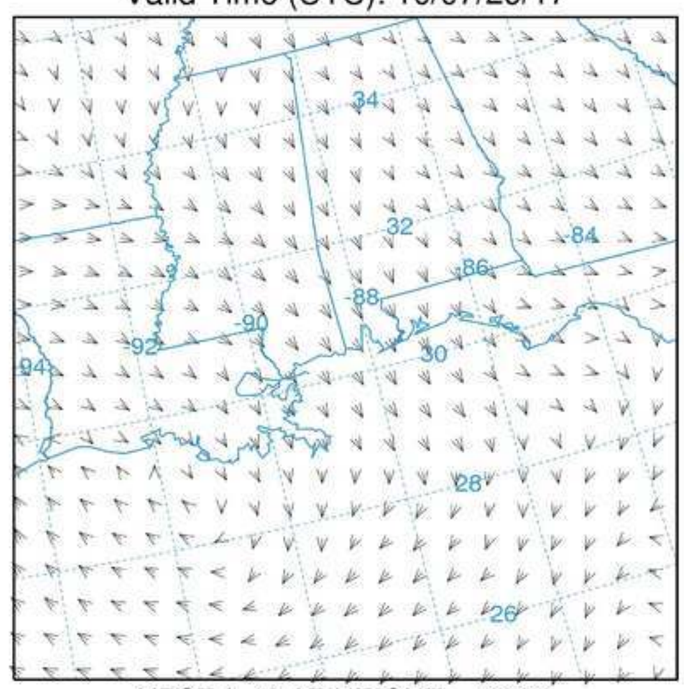
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/17



VECT (10) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

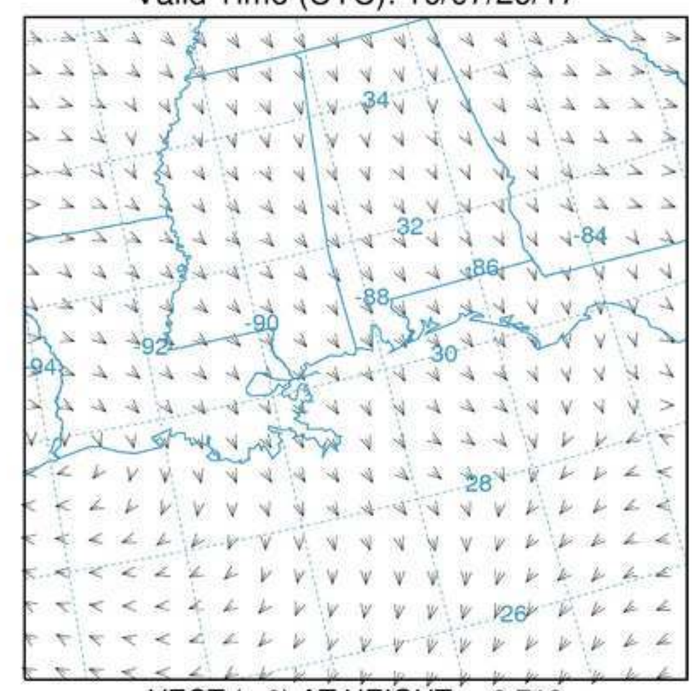
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/17



VECT (9) AT HEIGHT: 0.826

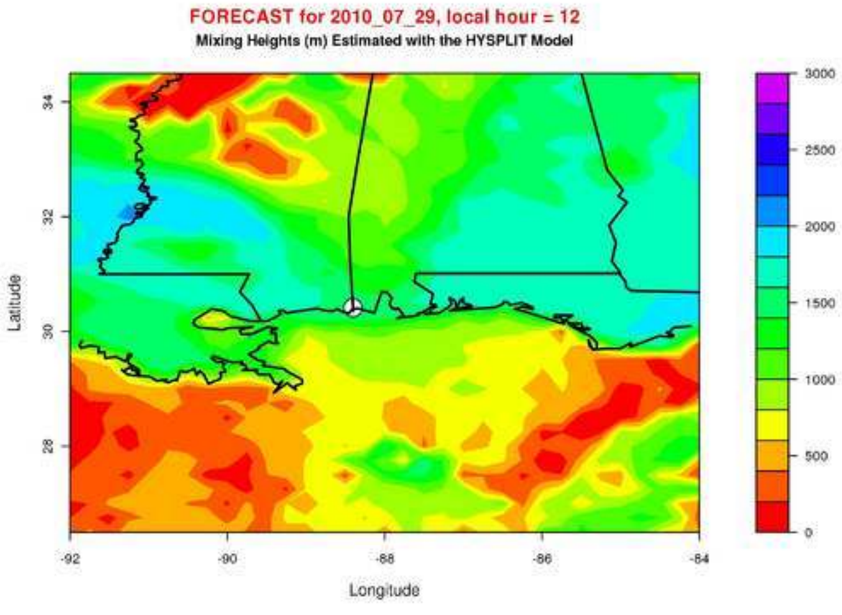
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

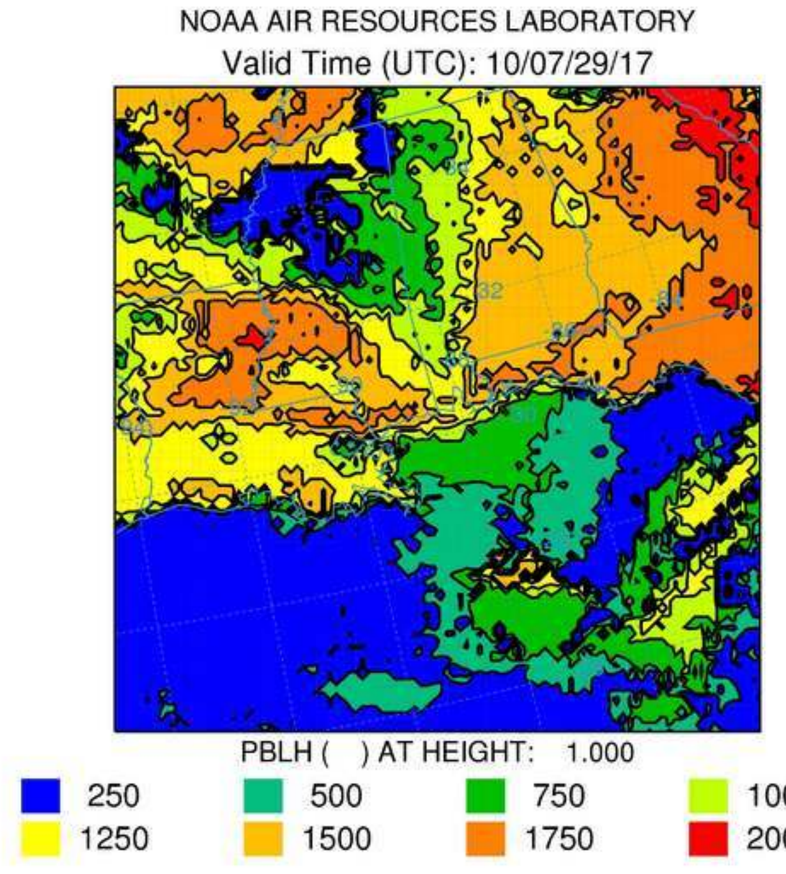
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/17

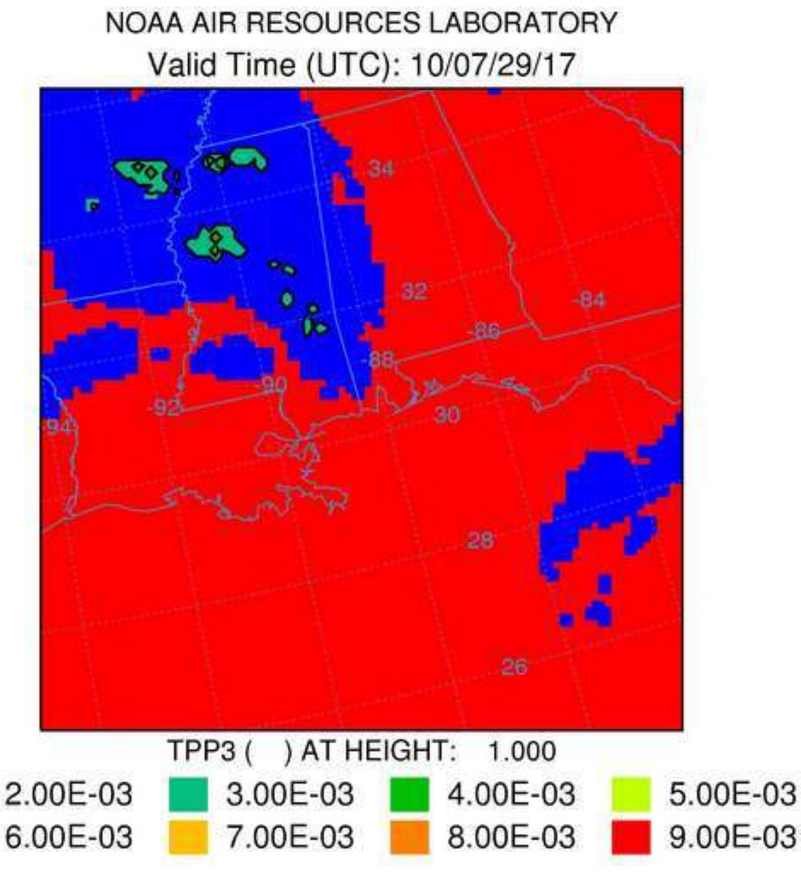


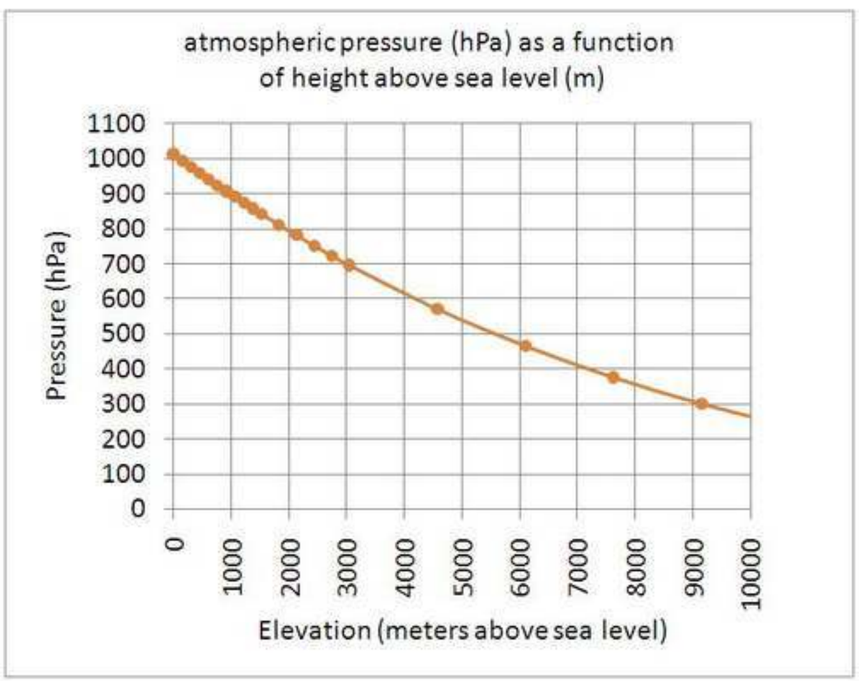
VECT (9) AT HEIGHT: 0.718

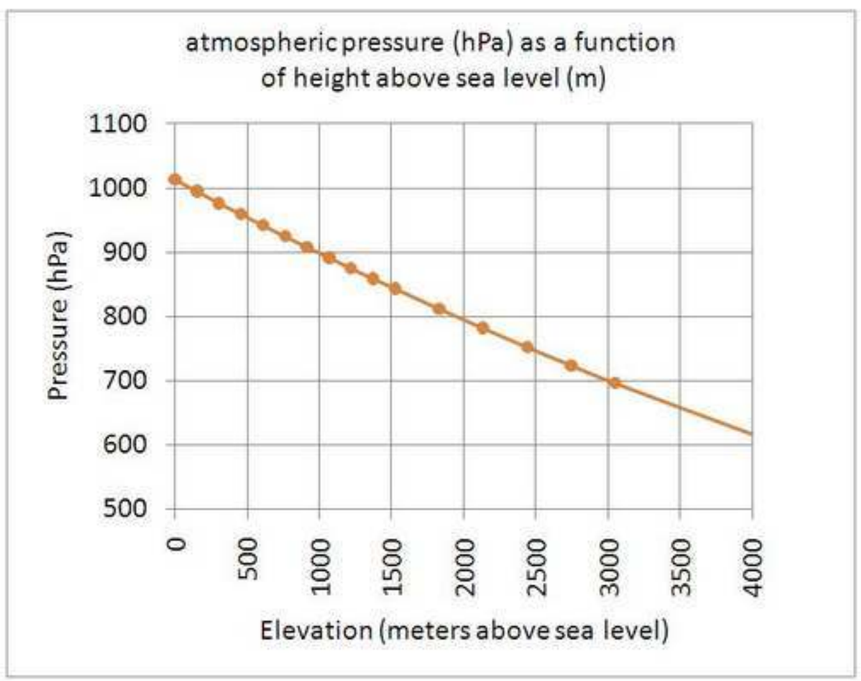
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 12
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/17
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/17
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

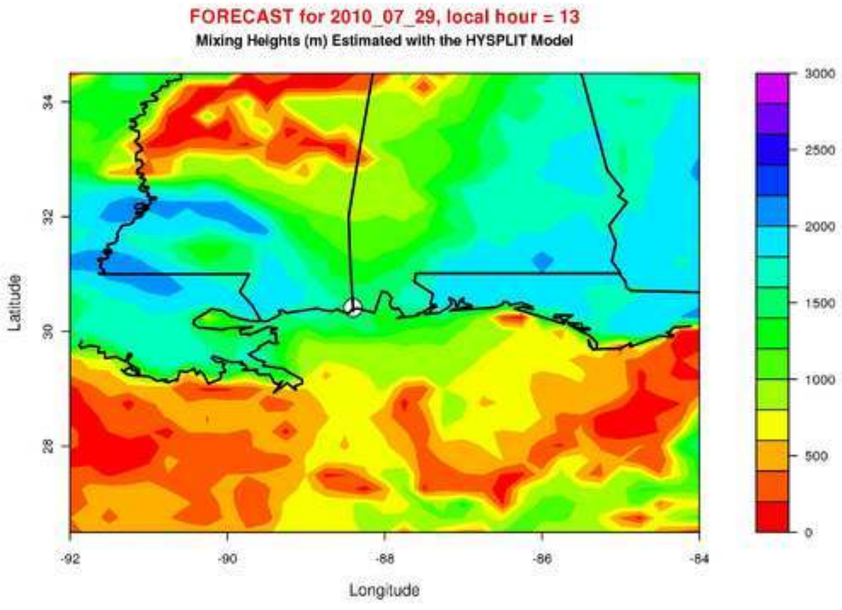
Meteorological Profile: hysplit.t00z.namsf

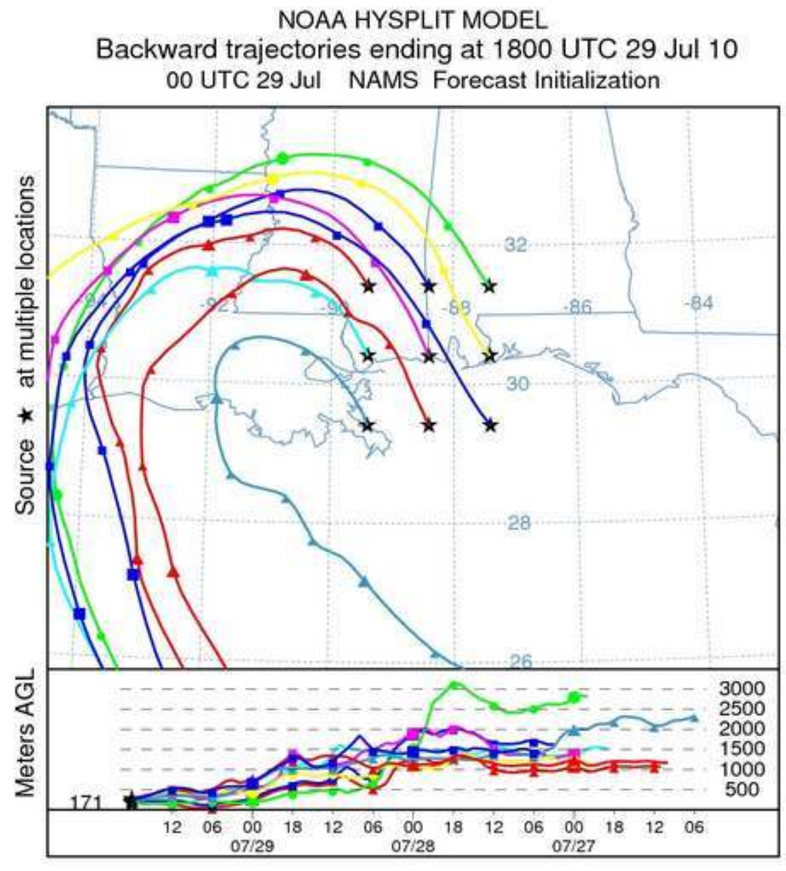
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

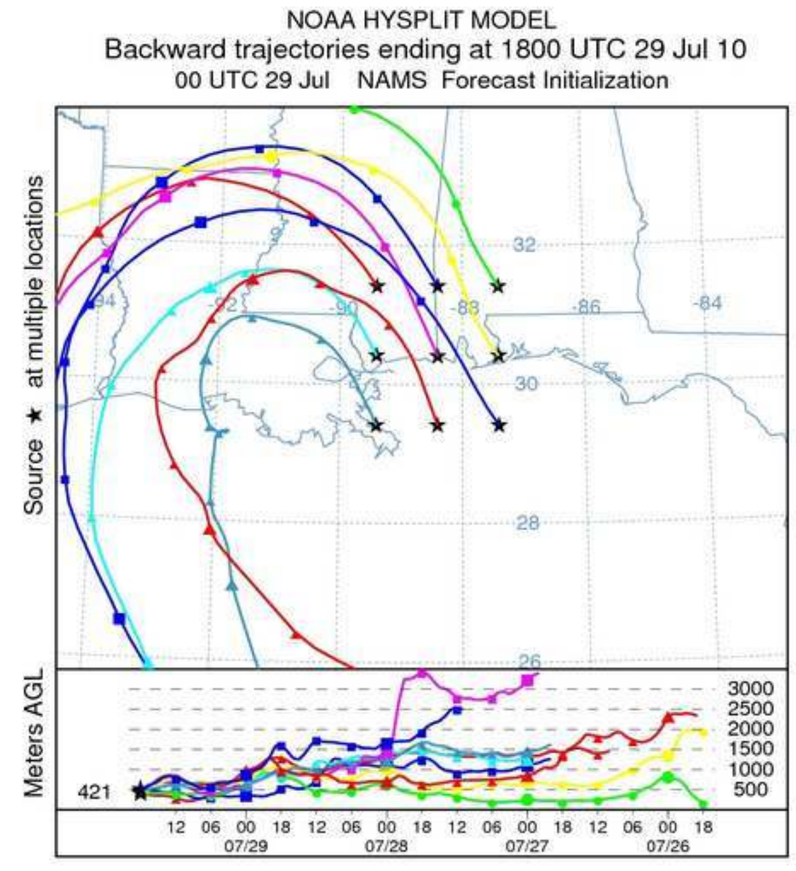
Profile Time: 10 7 29 17 0
Profile Location: 30.41 -88.40 (335,110)

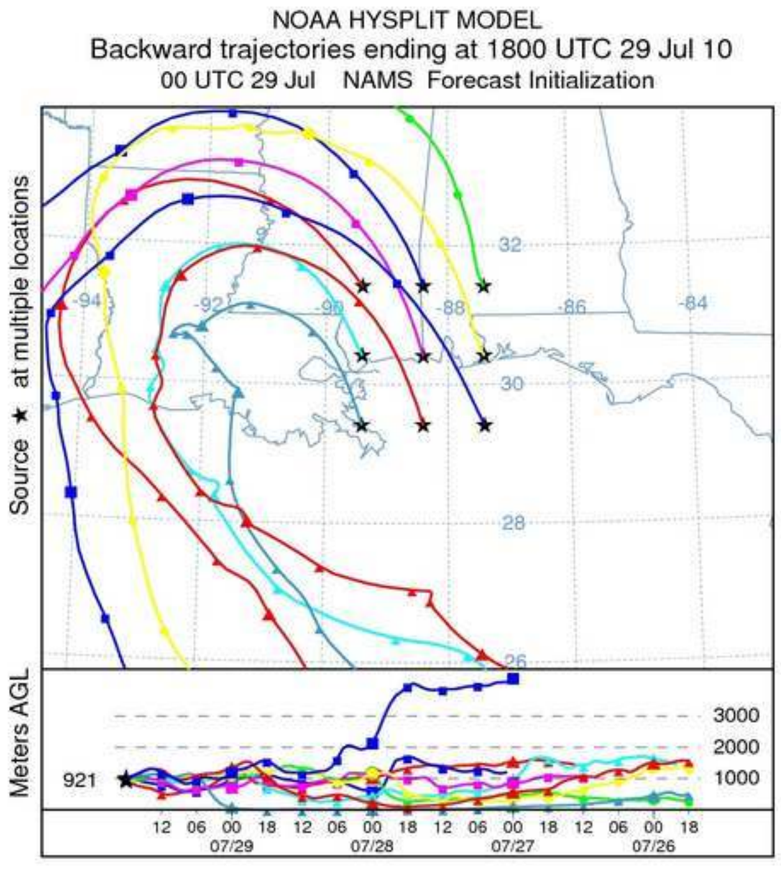
SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1022	0	1019	0	30.7	65.0	3.9	-4.8	1022	220	10.8	0.19	0	556	1408

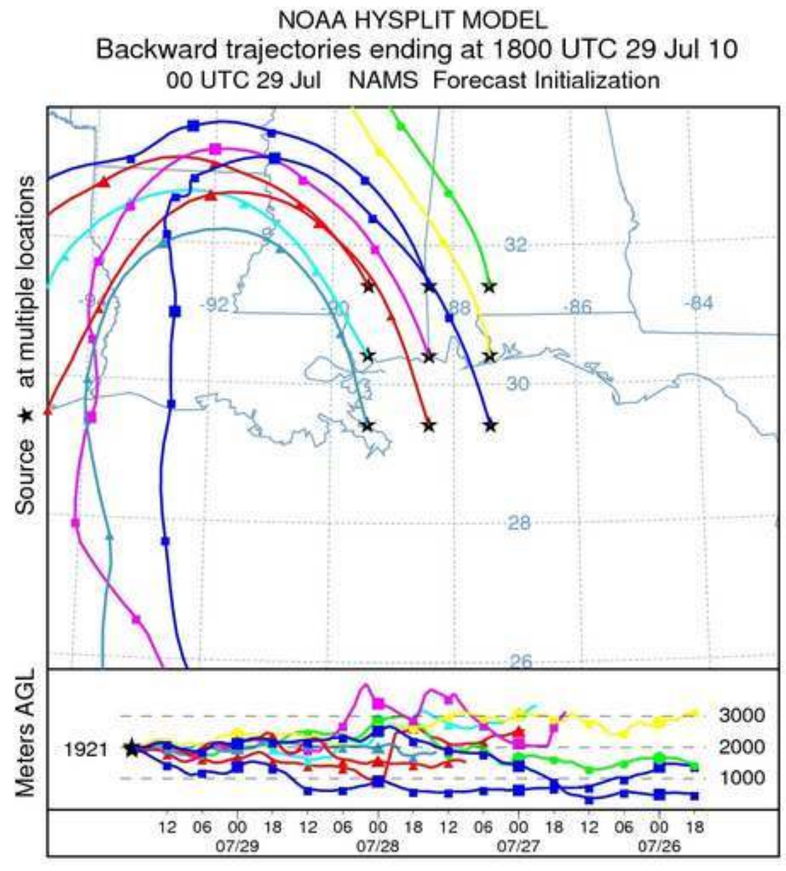
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1019	29.9	4.4	-5.4	3.5	16.1	0.55	301.4	3.0	-6.3
1014	29.5	4.7	-5.5	2.6	16.1	0.69	301.4	3.3	-6.5
1009	29.1	4.6	-5.4	2.5	16.0	0.69	301.4	3.2	-6.4
1004	28.6	4.5	-5.5	4.4	16.0	0.75	301.4	3.1	-6.4
999	28.2	4.9	-5.5	3.5	16.0	0.75	301.4	3.4	-6.5
994	27.7	4.9	-5.7	2.9	16.0	0.75	301.4	3.4	-6.7
989	27.2	4.9	-5.6	3.5	15.9	0.75	301.3	3.4	-6.6
984	26.8	4.7	-5.8	4.3	15.9	0.75	301.4	3.2	-6.7
978	26.2	4.9	-5.7	3.5	15.9	0.75	301.2	3.4	-6.7
972	25.6	4.6	-5.8	4.0	15.9	0.75	301.2	3.0	-6.7
966	25.1	4.7	-5.8	3.5	15.8	0.75	301.2	3.2	-6.8
960	24.5	4.8	-5.8	3.6	15.9	0.78	301.1	3.3	-6.8
954	23.9	4.8	-5.8	5.3	15.8	0.65	301.1	3.3	-6.8
947	23.2	4.9	-5.9	4.2	15.8	0.65	301.0	3.4	-6.9
940	22.6	4.7	-5.9	5.3	15.7	0.65	301.1	3.1	-6.9
932	21.8	5.1	-6.1	5.4	15.8	0.80	301.0	3.5	-7.1
923	21.1	5.2	-6.2	3.5	15.1	0.70	301.0	3.6	-7.3
902	20.0	6.1	-10.3	2.1	13.3	0.45	301.9	3.5	-11.5
875	18.6	6.8	-10.8	3.5	12.4	0.20	303.2	4.0	-12.1
844	16.9	6.1	-10.1	0	11.5	0.20	304.5	3.5	-11.3
809	14.9	5.2	-8.1	0	10.6	0.20	306.0	3.1	-9.1
773	12.5	3.4	-5.9	-3.5	9.5	0.20	307.5	1.9	-6.6
734	10.2	3.3	-4.3	-7.0	8.4	0.20	309.5	2.1	-4.9
692	7.5	3.6	-3.9	-3.5	7.2	0.20	311.8	2.6	-4.6
648	4.8	3.1	-4.7	0	5.8	0.20	314.6	1.9	-5.3
602	1.6	4.7	-5.4	3.5	4.2	0.20	317.8	3.2	-6.4
553	-1.7	4.2	-5.0	0	2.9	0.20	321.5	2.9	-5.9
504	-6.6	1.2	-1.9	1.8	1.5	0.20	324.1	0.7	-2.1
455	-11.9	-0.84	1.2	3.5	1.1	0.20	327.2	-0.5	1.3
405	-18.3	-4.3	-1.1	2.5	0.54	0.20	330.0	-4.4	-0.1
355	-26.1	-4.3	0.98	5.7	0.28	0.19	332.3	-3.9	2.0
306	-33.1	-2.8	7.2	4.4	0.16	0.20	336.7	-1.0	7.7
261	-41.9	-7.5	8.8	0	0.13	0.20	339.6	-5.1	10.3
222	-50.6	-10.1	10.0	0	1E-1	0.20	342.4	-7.4	12.1
184	-61.5	-8.6	5.9	-3.2	3E-2	0.20	343.5	-6.9	7.8
139	-72.6	-9.6	-1.5	-1.4	1E-2	0.20	352.7	-9.7	0.8
89	-64.3	-11.9	-3.0	0.85	1E-2	0.20	417.7	-12.3	0.0
63	-58.3	-13.8	-2.6	-1E-1	1E-2	0.20	473.1	-14.0	0.8
38	-47.3	-27.8	-5.7	-0.32	3E-2	0.20	575.4	-28.4	1.2

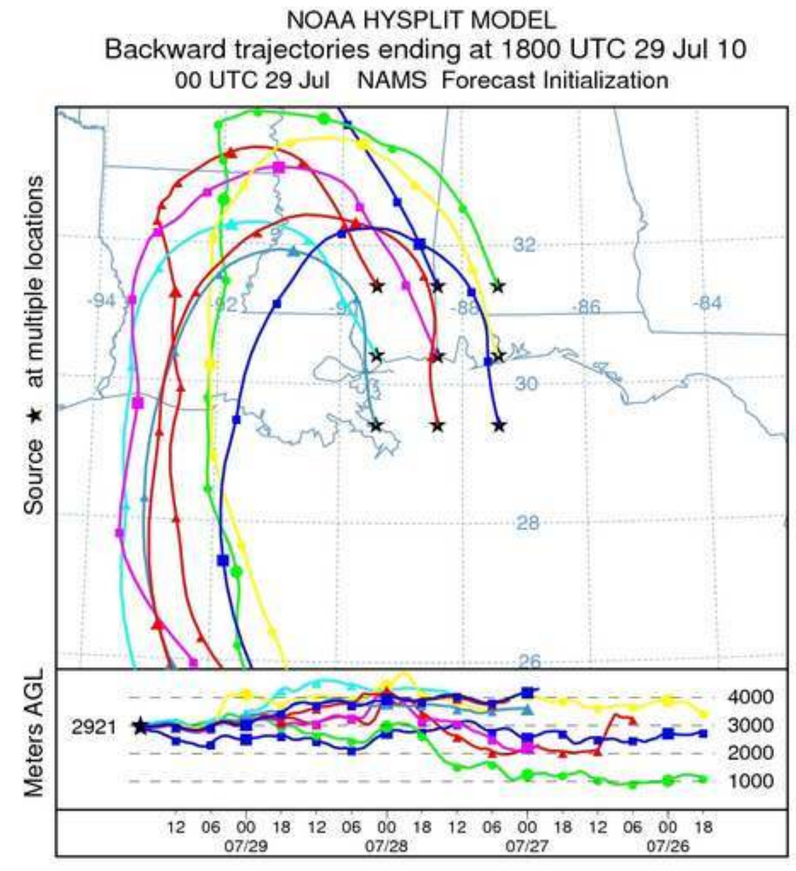

FORECAST for 2010_07_29, local hour = 13
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 1800 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
171
07/29
07/28
07/27

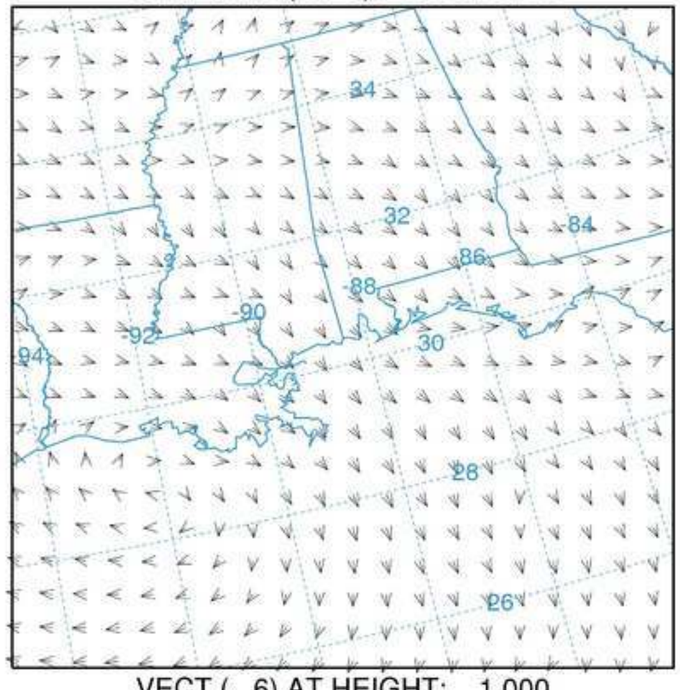

NOAA HYSPLIT MODEL
Backward trajectories ending at 1800 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1800 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
921
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1800 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1921
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1800 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
07/29
07/28
07/27
07/26

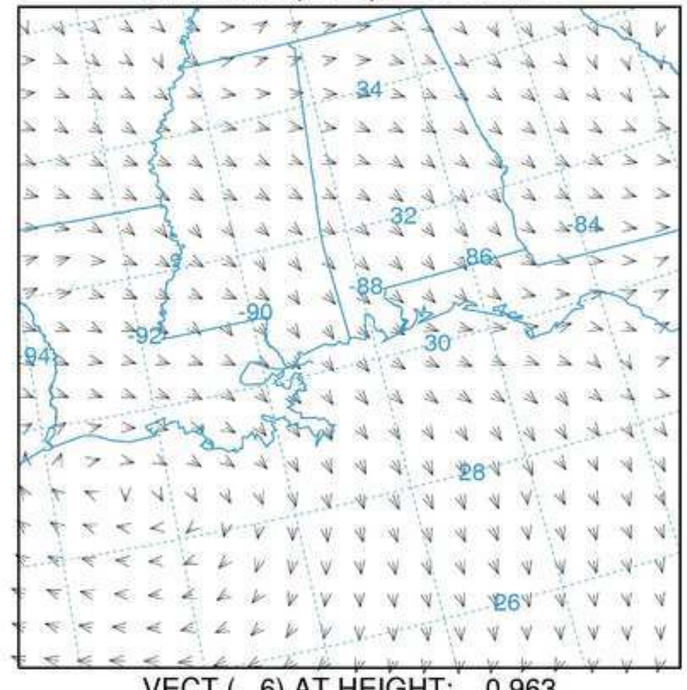
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/18



VECT (6) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

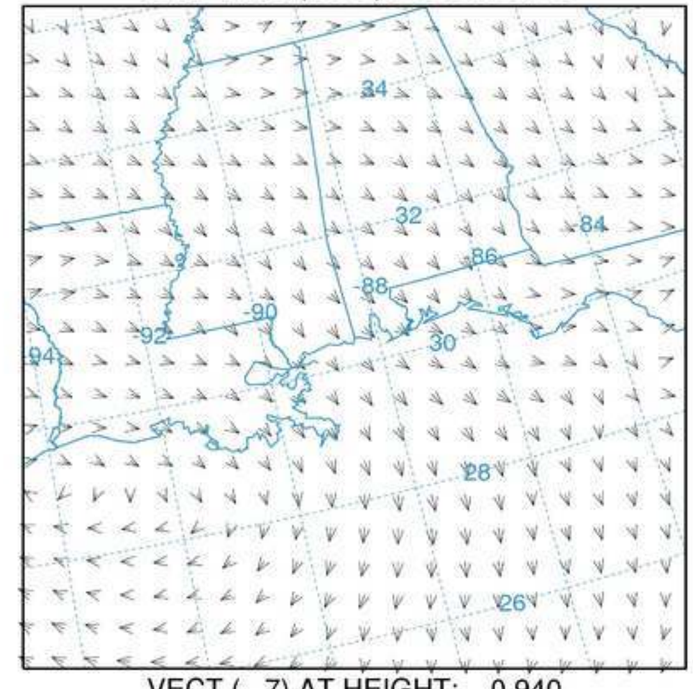
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/18



VECT (6) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

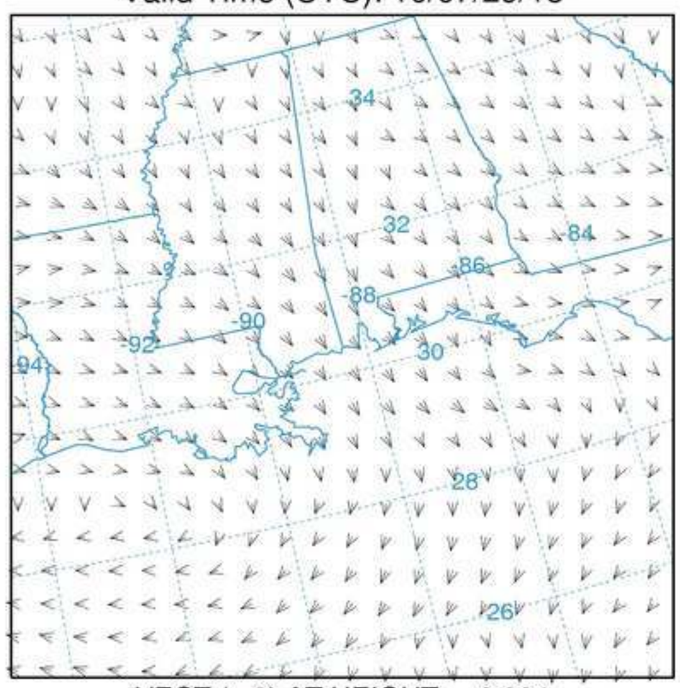
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/18



VECT (7) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

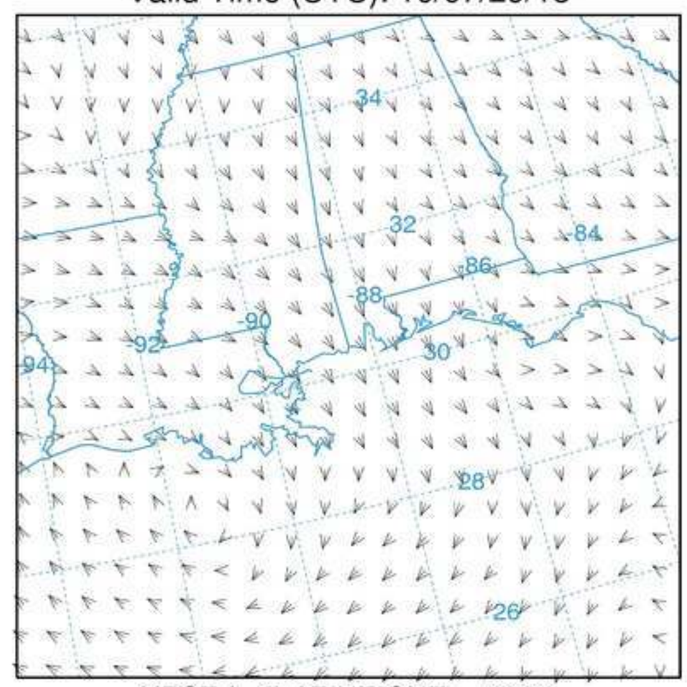
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/18



VECT (9) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

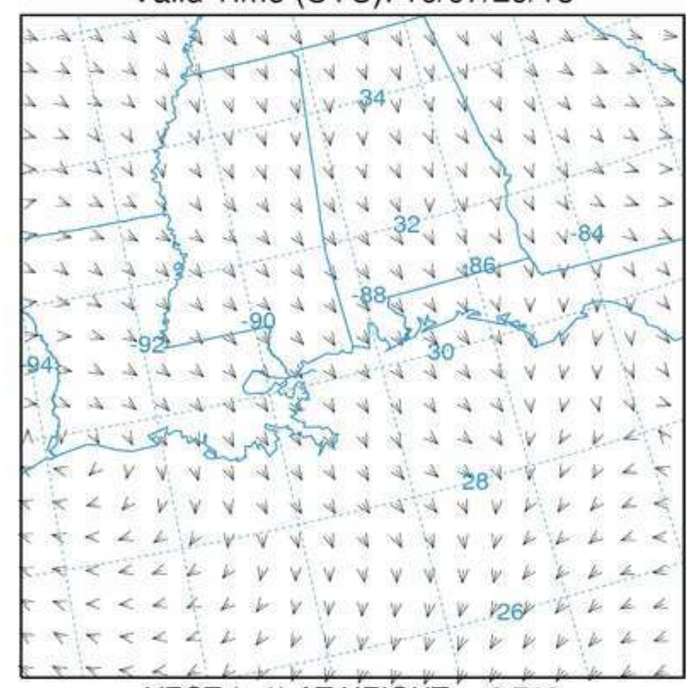
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/18



VECT (8) AT HEIGHT: 0.826

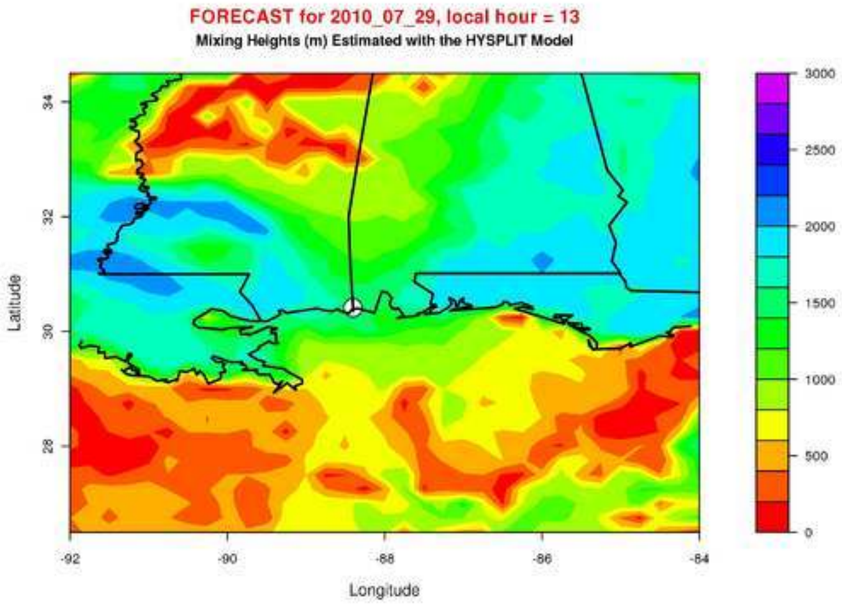
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

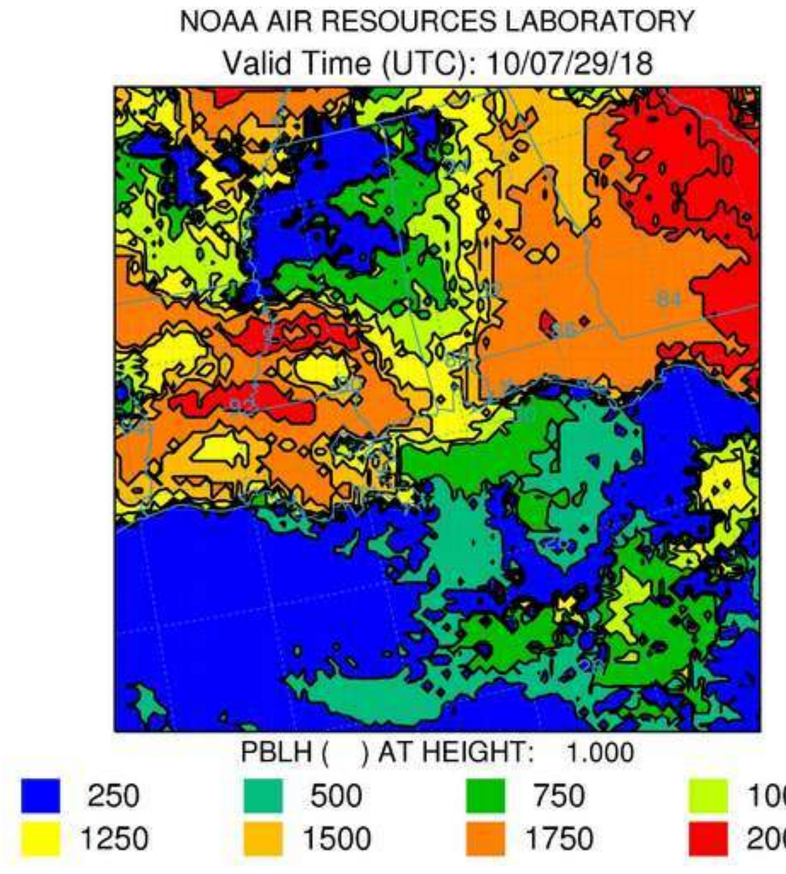
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/18

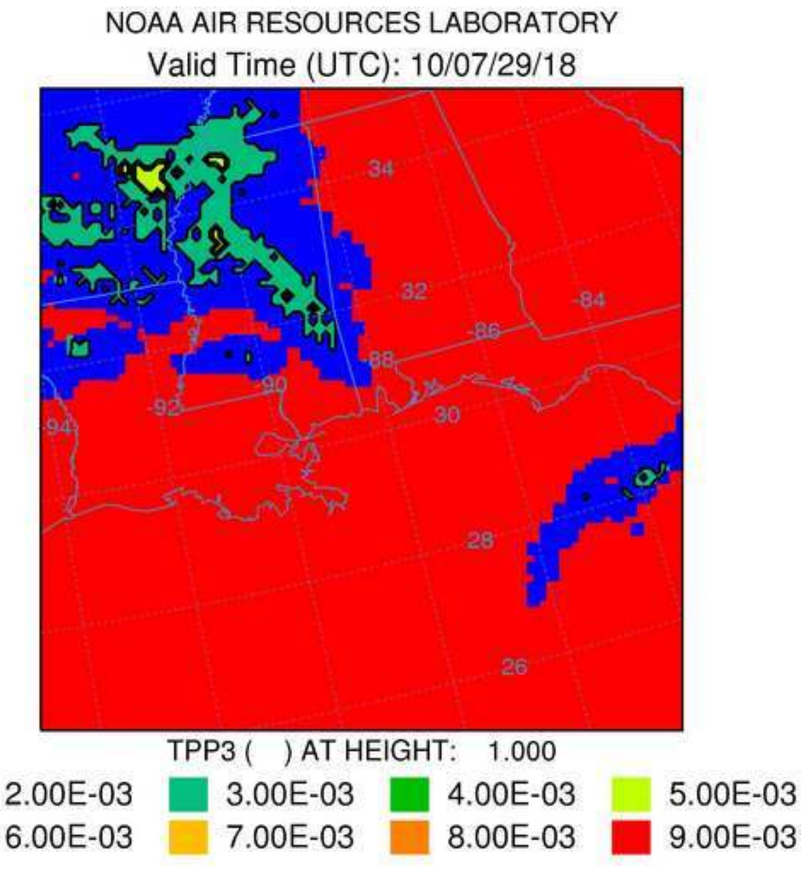


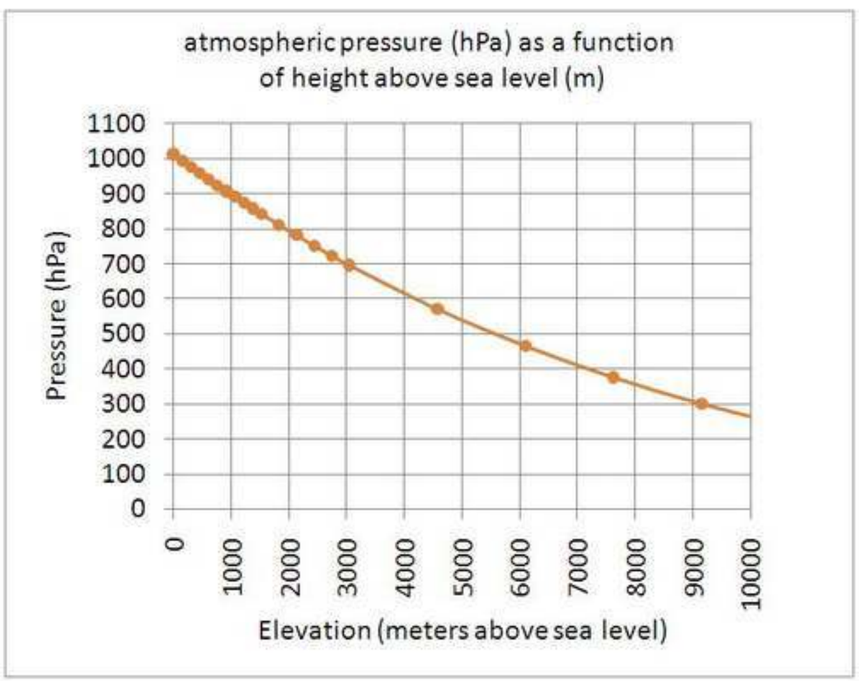
VECT (9) AT HEIGHT: 0.718

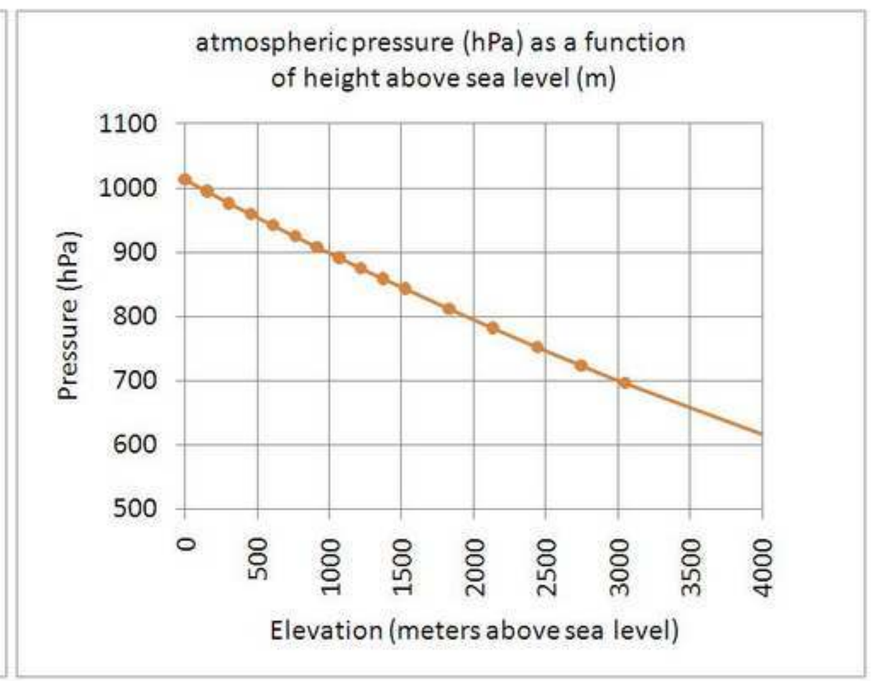
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 13
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/18
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/18
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

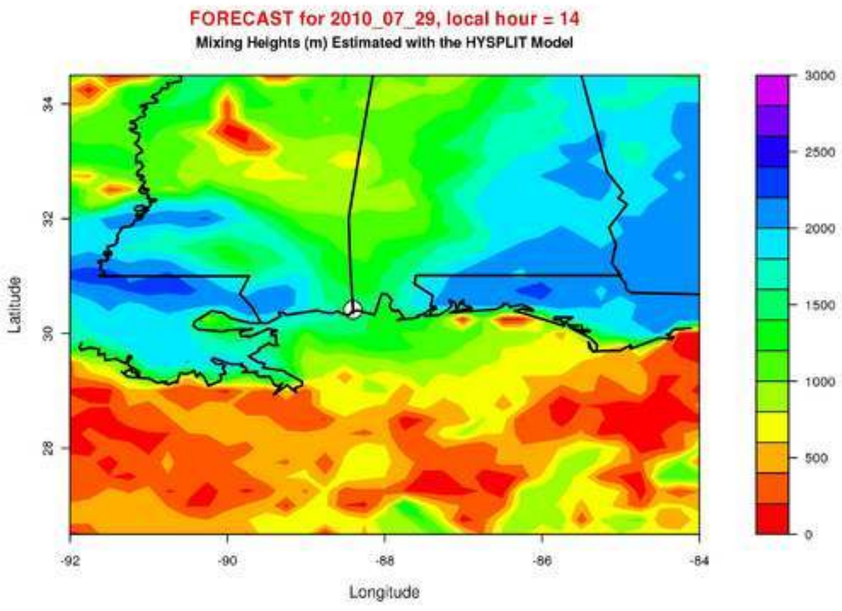
Meteorological Profile: hysplit.t00z.namsf

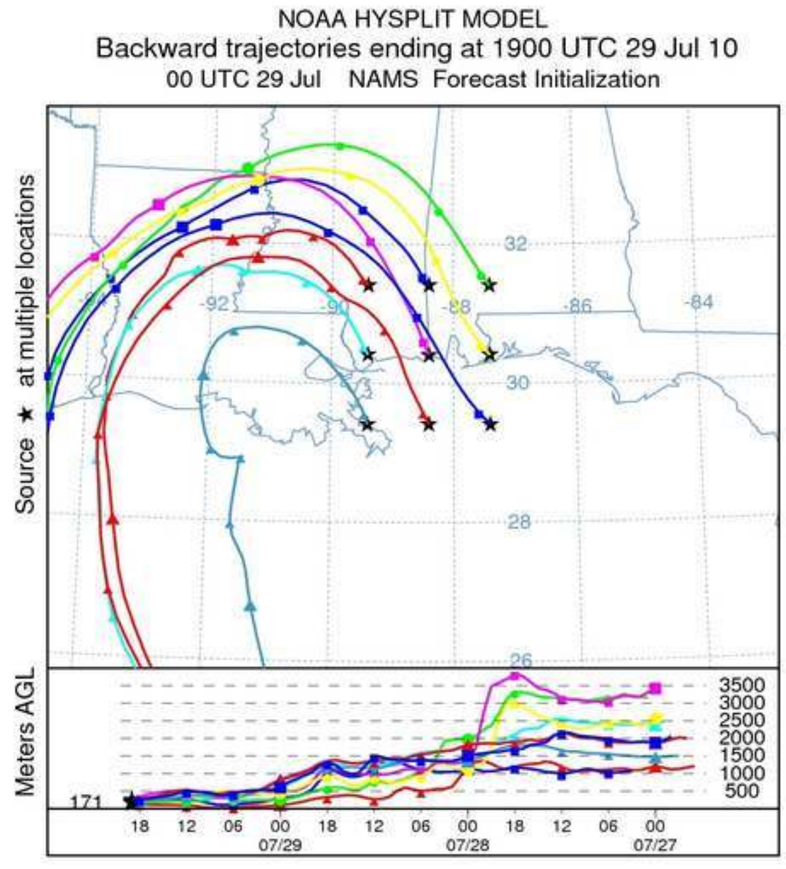
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

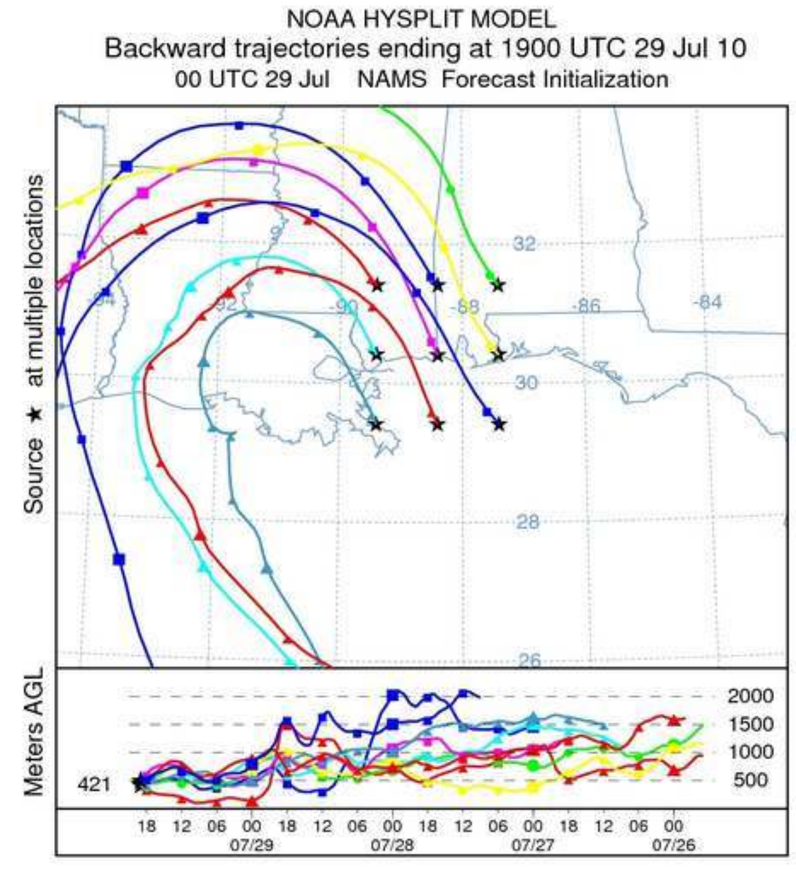
Profile Time: 10 7 29 18 0
Profile Location: 30.41 -88.40 (335,110)

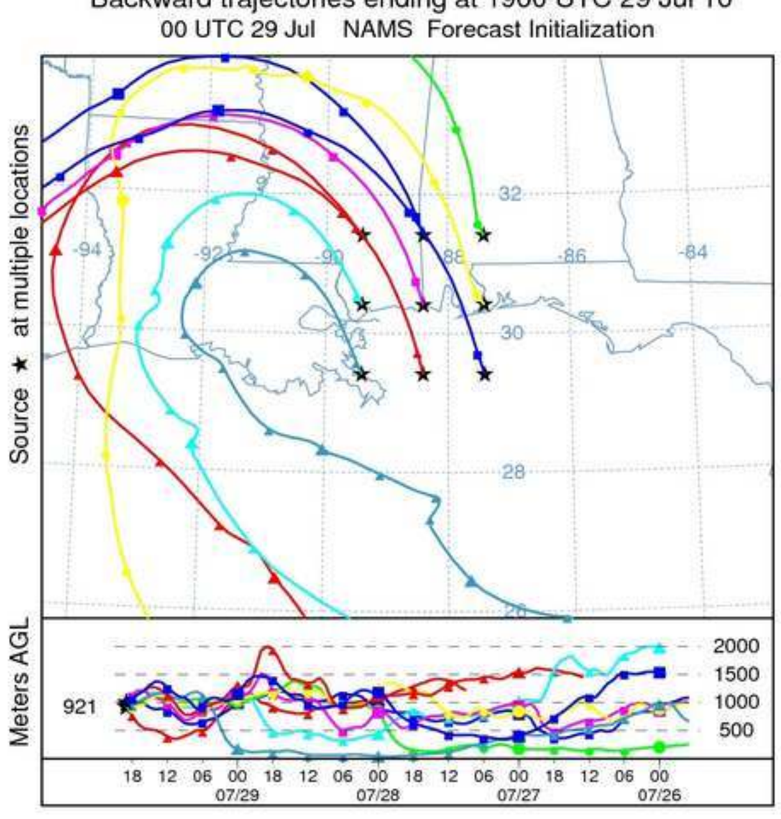
	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1018	0	1019	0	30.6	66.0	3.6	-4.9	1018	213	5.3	0.19	0	981	1431

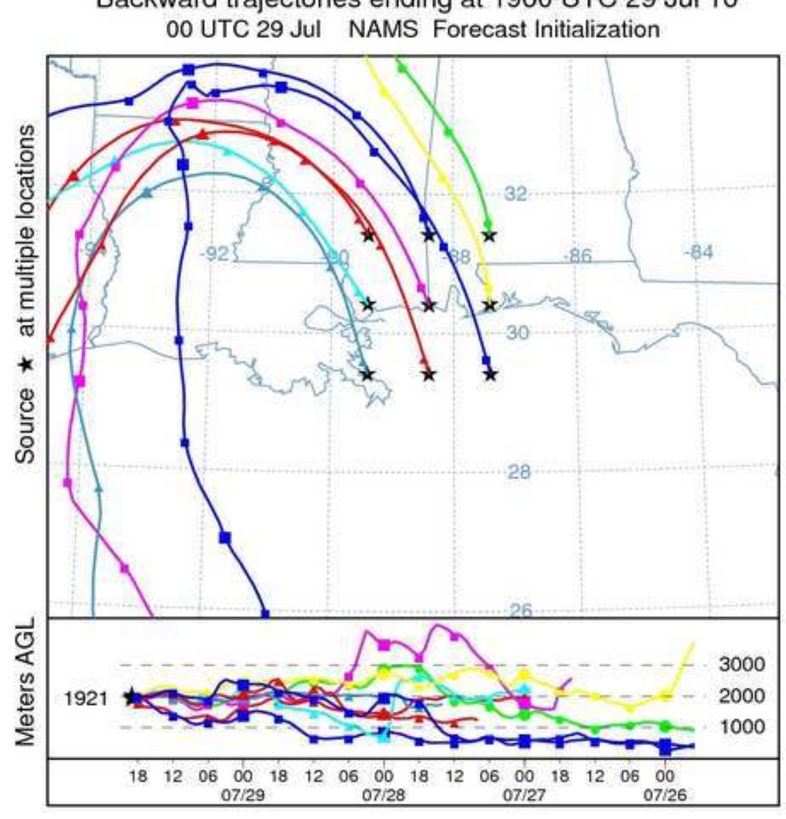
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1016	29.8	4.2	-5.3	3.5	16.5	0.61	301.6	2.8	-6.2
1011	29.3	4.6	-5.5	6.2	16.4	0.71	301.6	3.2	-6.4
1006	28.9	4.5	-5.4	4.4	16.3	0.78	301.6	3.1	-6.3
1001	28.5	4.4	-5.4	7.0	16.2	0.78	301.6	3.0	-6.3
996	28.1	4.4	-5.5	5.3	16.2	0.80	301.6	2.9	-6.4
991	27.6	4.5	-5.5	7.0	16.2	0.78	301.6	3.1	-6.4
986	27.3	4.6	-5.6	7.0	16.1	0.93	301.7	3.1	-6.5
980	26.7	4.4	-5.7	8.8	16.1	0.93	301.6	2.9	-6.6
975	26.2	4.5	-5.6	8.8	16.1	0.93	301.6	3.1	-6.5
969	25.7	4.4	-5.7	8.8	16.1	0.93	301.5	2.9	-6.6
963	25.1	4.7	-5.8	10.5	16.1	0.93	301.5	3.2	-6.7
957	24.5	4.6	-5.8	10.5	16.1	0.80	301.5	3.1	-6.8
950	24.0	4.6	-5.8	10.5	16.0	0.80	301.5	3.0	-6.8
944	23.3	4.5	-5.9	12.3	16.0	0.80	301.4	2.9	-6.8
937	22.6	4.8	-6.0	12.3	15.9	0.82	301.3	3.2	-7.0
929	21.8	4.9	-6.1	14.1	15.8	0.82	301.3	3.3	-7.1
920	21.3	5.2	-7.3	12.6	14.8	0.82	301.5	3.3	-8.3
899	20.2	5.5	-10.7	10.5	13.3	0.45	302.5	2.7	-11.7
872	18.8	6.0	-10.6	7.0	12.5	0.20	303.7	3.3	-11.7
841	17.0	5.7	-10.1	9.4	11.5	0.20	304.9	3.1	-11.1
807	14.9	4.9	-8.4	5.8	10.5	0.20	306.4	2.8	-9.3
770	12.5	4.0	-6.0	0	9.4	0.20	307.9	2.5	-6.7
731	9.9	3.0	-4.2	-3.5	8.4	0.20	309.6	1.9	-4.8
690	7.4	4.1	-3.7	-3.5	7.2	0.20	312.0	3.0	-4.6
646	4.4	3.2	-4.3	-3.5	5.9	0.20	314.6	2.1	-4.9
600	1.4	4.3	-4.9	-3.5	4.6	0.20	317.8	3.0	-5.8
551	-1.9	4.7	-5.0	-7.0	3.9	0.20	321.6	3.4	-6.0
503	-6.7	1.0	-1.9	-5.3	1.6	0.20	324.4	0.5	-2.0
453	-11.9	-0.45	0.53	-1.8	1.1	0.20	327.6	-0.3	0.6
404	-18.1	-4.0	-1.9	2.2	0.48	0.20	330.7	-4.3	-0.9
354	-25.7	-3.7	0	10.5	0.27	0.20	333.2	-3.6	0.9
305	-32.8	-2.0	6.0	8.8	0.17	0.20	337.6	-0.5	6.3
260	-41.8	-9.1	8.4	4.8	0.16	0.20	340.1	-6.8	10.3
221	-50.6	-9.9	9.6	2.8	1E-1	0.20	342.8	-7.3	11.6
183	-61.4	-8.9	4.2	0	3E-2	0.20	343.9	-7.6	6.2
138	-72.3	-10.8	-0.77	2.6	1E-2	0.20	353.7	-10.6	1.8
88	-64.5	-11.7	-2.9	-0.76	1E-2	0.20	417.6	-12.0	0.0
63	-59.1	-12.5	-3.3	-0.72	1E-2	0.20	471.8	-13.0	-0.2
38	-47.5	-28.7	-5.4	-0.15	3E-2	0.20	575.5	-29.2	1.6

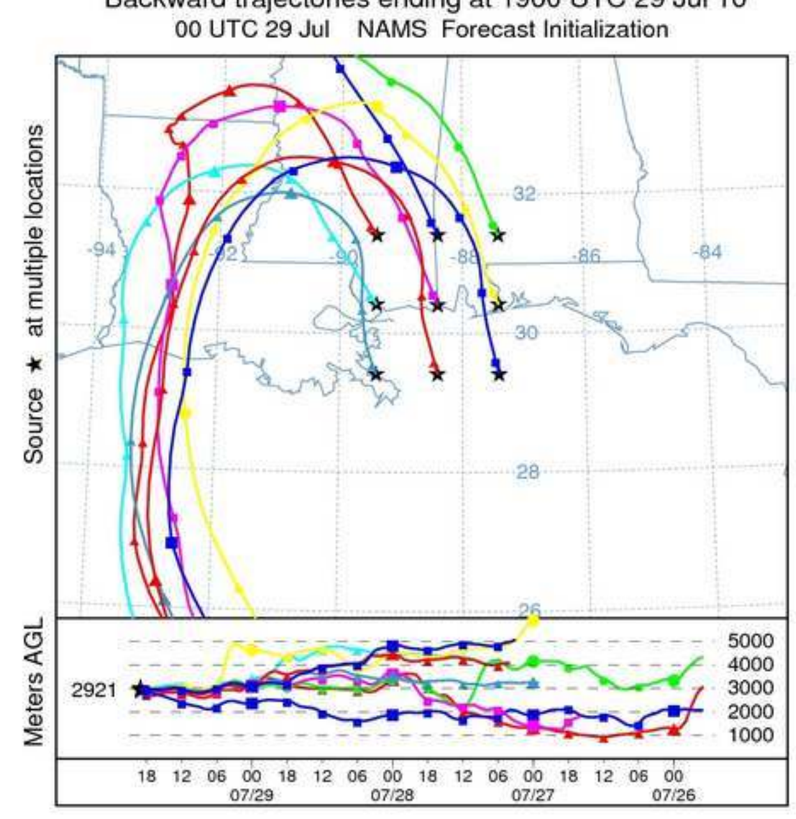

FORECAST for 2010_07_29, local hour = 14
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 1900 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
171
3500
3000
2500
2000
1500
1000
500
07/29
07/28
07/27

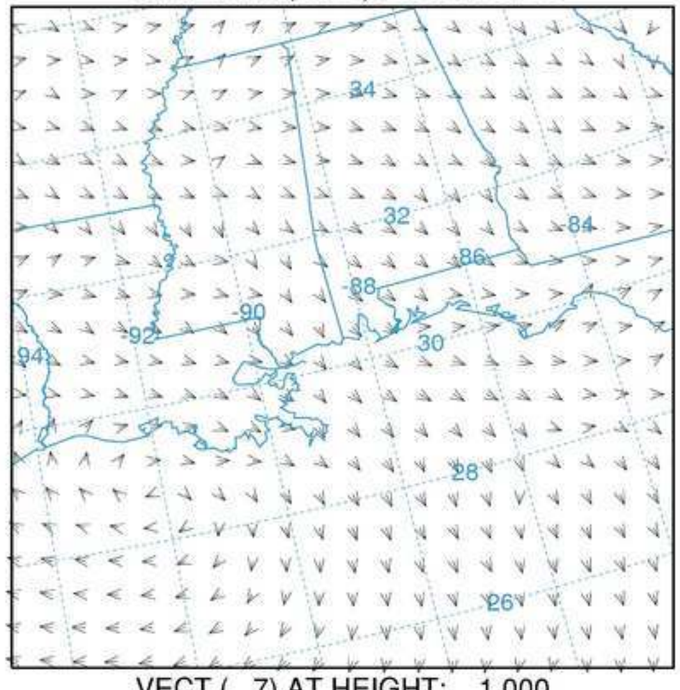

NOAA HYSPLIT MODEL
Backward trajectories ending at 1900 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1900 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
921
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1900 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1921
3000
2000
1000
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 1900 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
5000
4000
3000
2000
1000
07/29
07/28
07/27
07/26

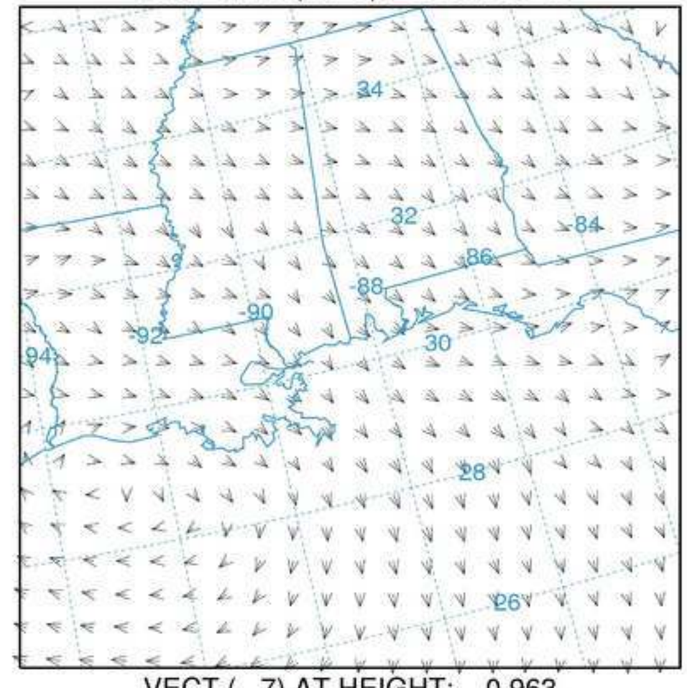
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/19



VECT (7) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

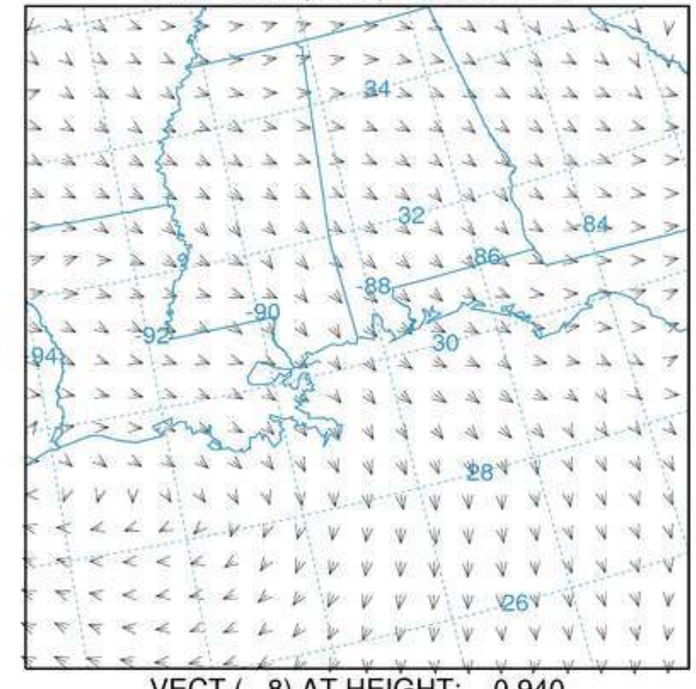
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/19



VECT (7) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

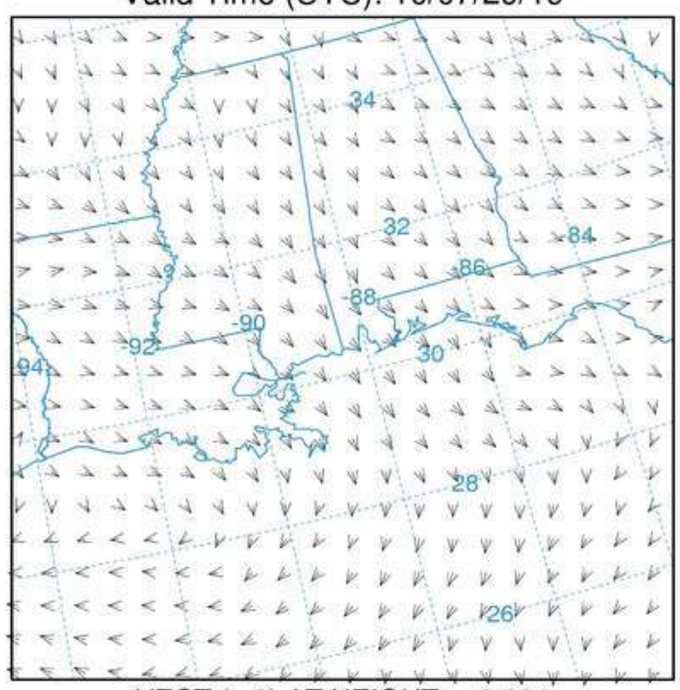
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/19



VECT (8) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

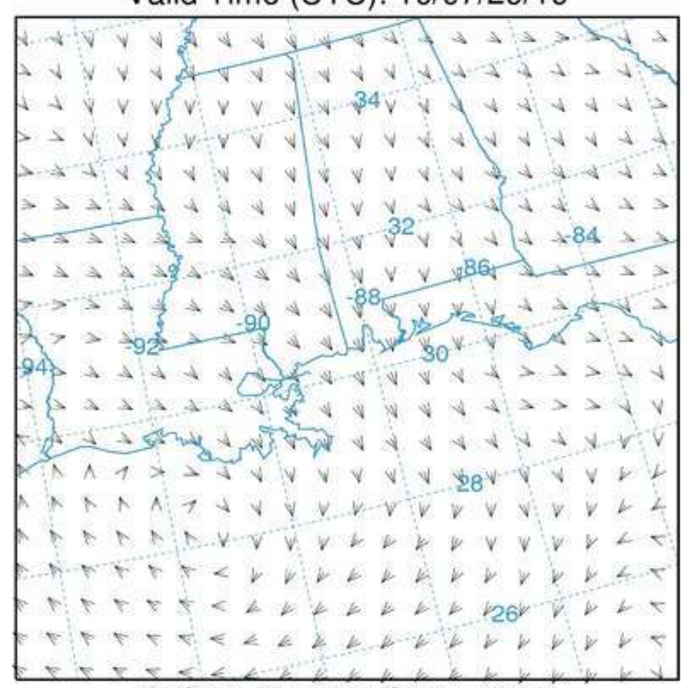
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/19



VECT (8) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

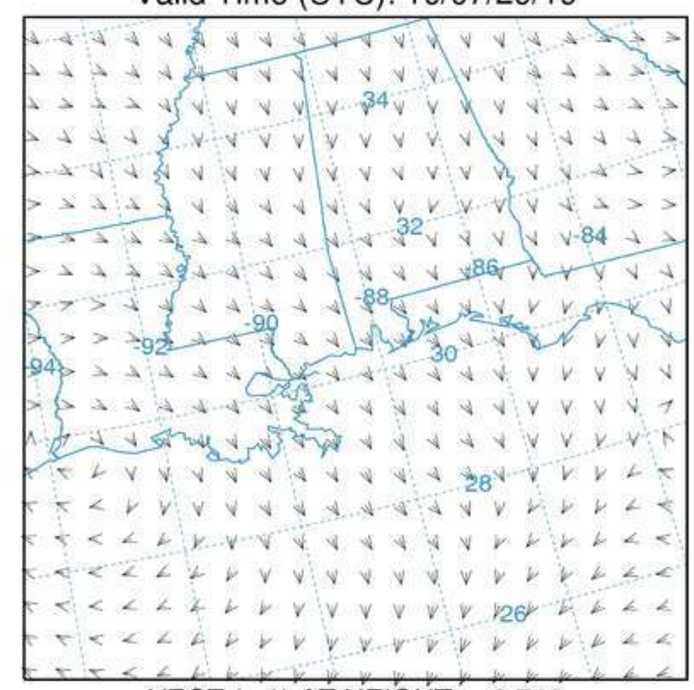
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/19



VECT (9) AT HEIGHT: 0.826

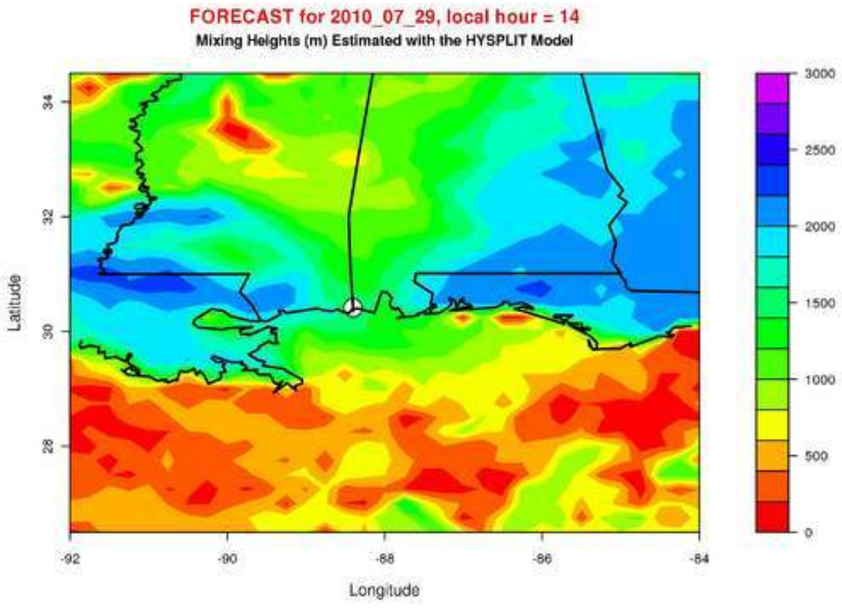
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

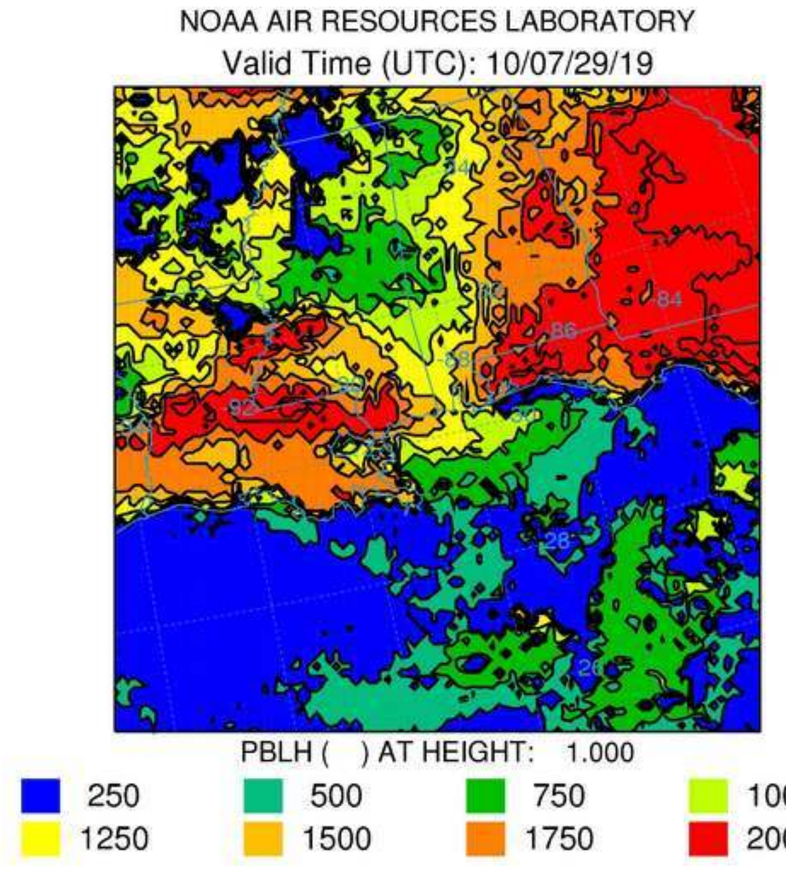
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/19

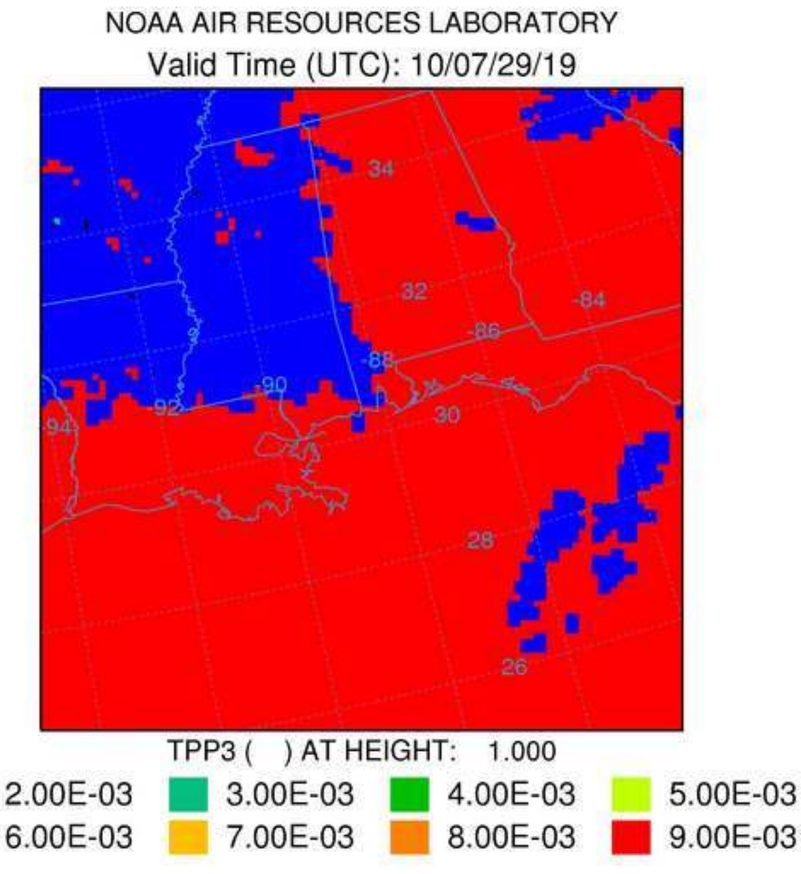


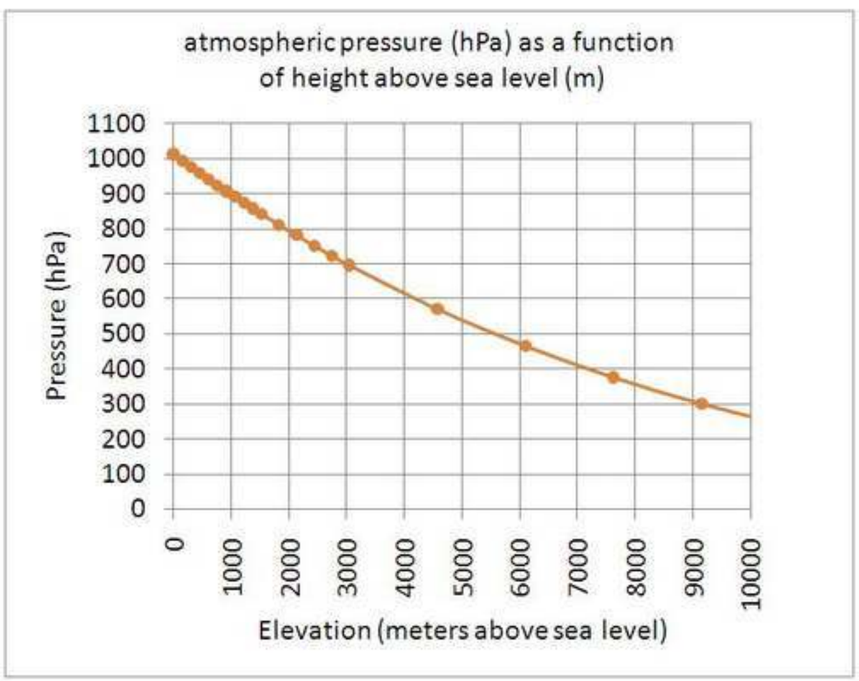
VECT (9) AT HEIGHT: 0.718

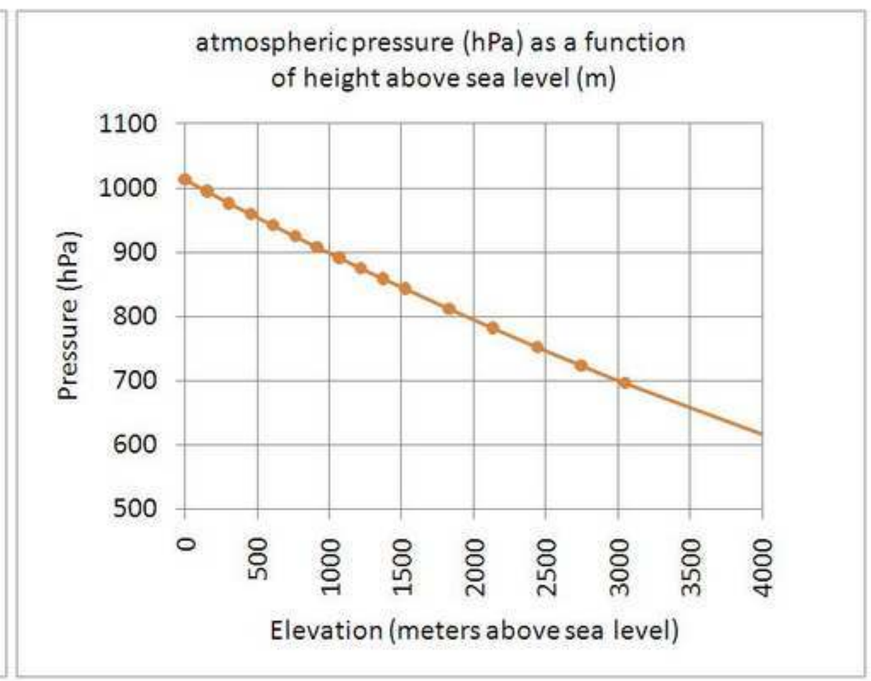
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 14
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/19
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/19
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

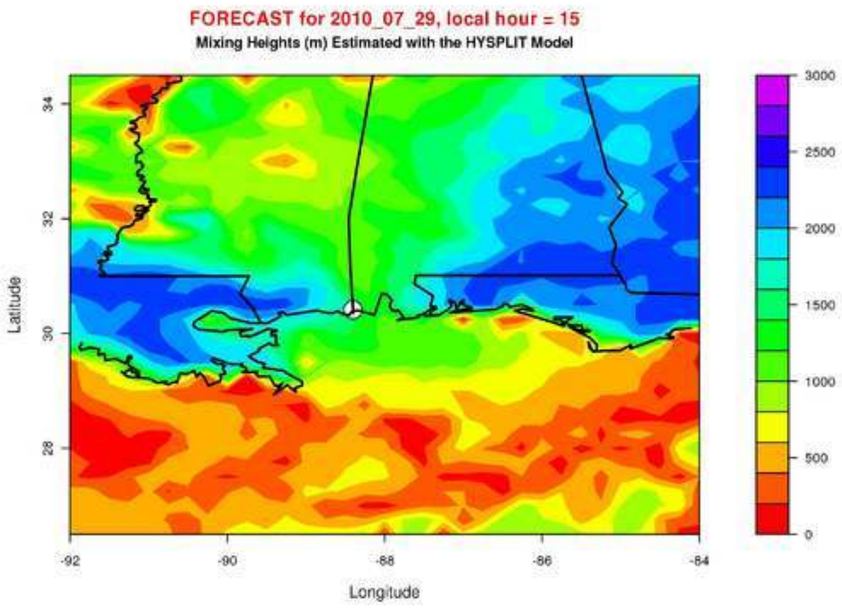
Meteorological Profile: hysplit.t00z.namsf

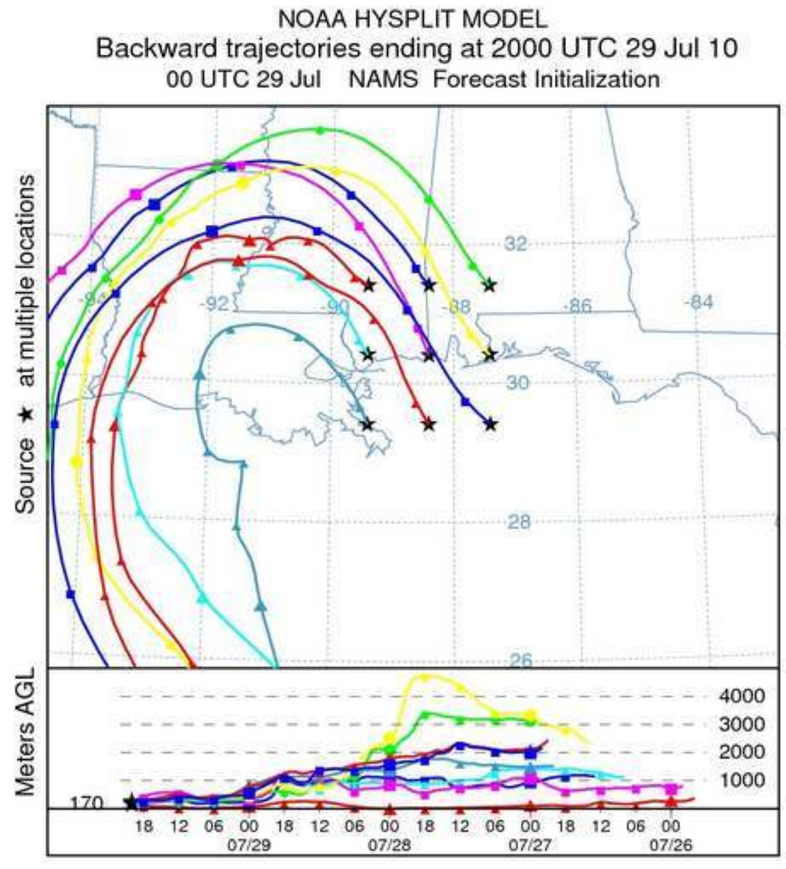
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

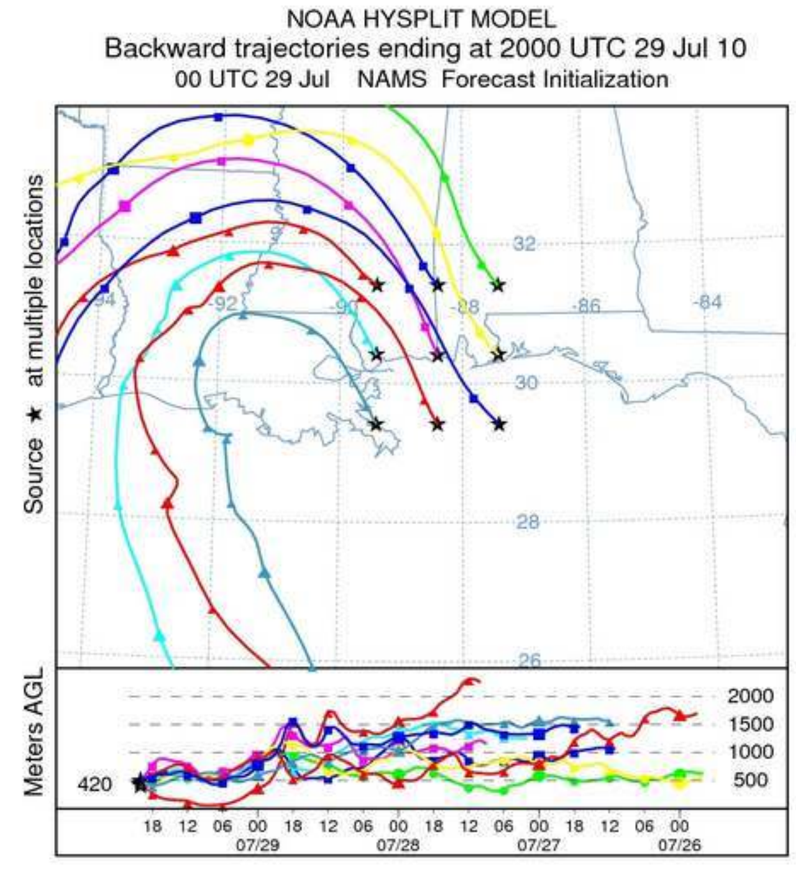
Profile Time: 10 7 29 19 0
Profile Location: 30.41 -88.40 (335,110)

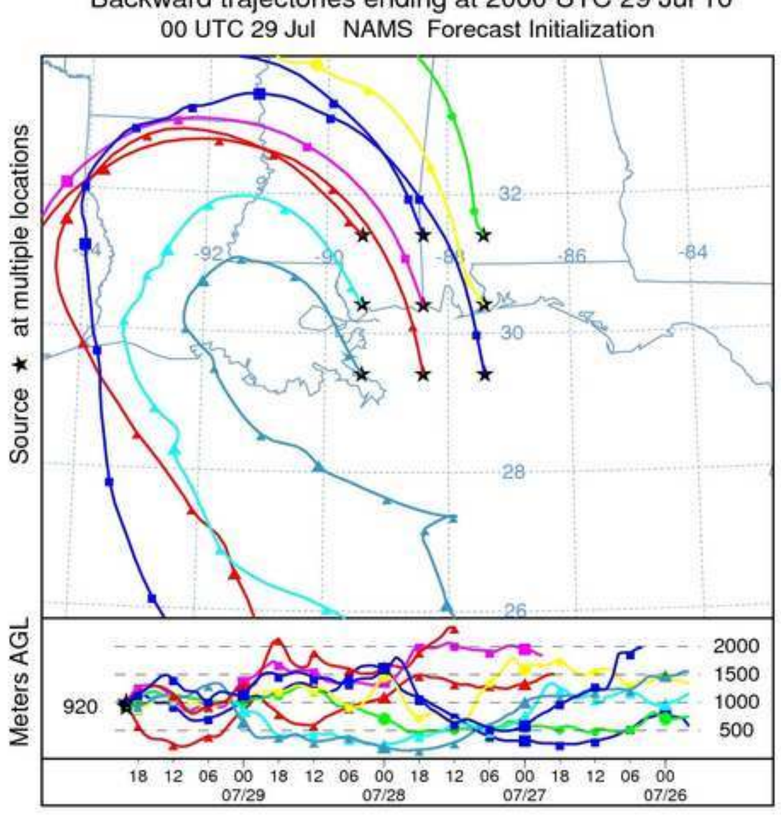
	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1018	0	1019	0	30.8	65.0	3.3	-4.8	1018	217	10.1	0.19	0	525	1586

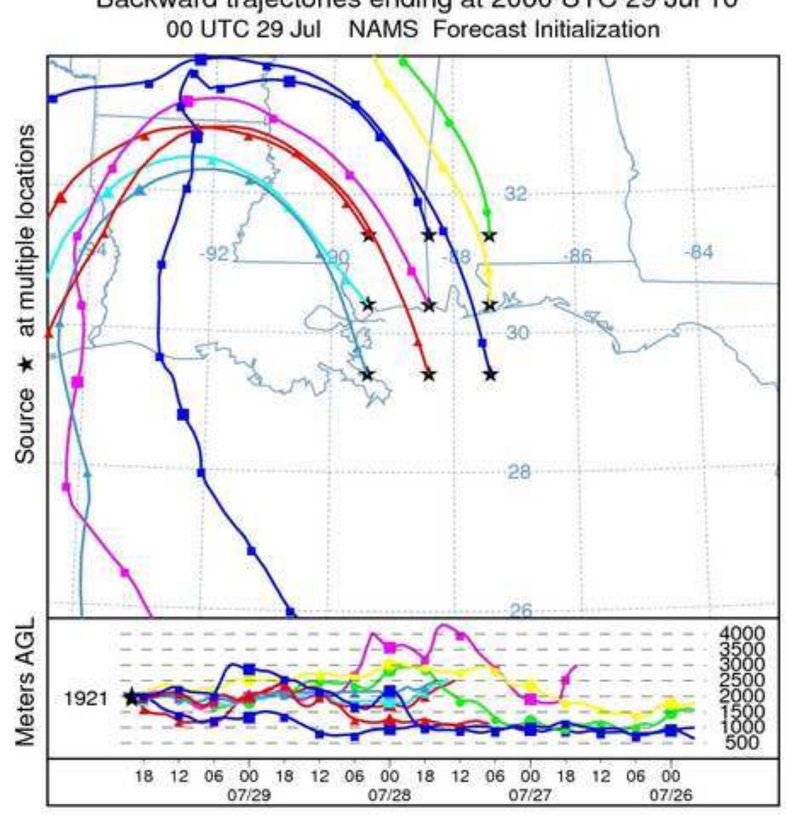
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1015	30.0	4.3	-5.3	5.3	16.2	0.64	301.9	2.9	-6.2
1010	29.6	4.1	-5.3	6.2	16.2	0.68	301.8	2.7	-6.2
1005	29.2	4.1	-5.4	7.9	16.1	0.80	301.9	2.7	-6.2
1000	28.7	4.0	-5.5	7.9	16.1	0.93	301.8	2.6	-6.3
995	28.3	4.4	-5.5	10.5	16.0	0.93	301.9	3.0	-6.4
990	27.9	4.4	-5.6	12.3	15.9	0.80	301.9	2.9	-6.5
985	27.5	4.2	-5.5	14.2	16.0	1.1	301.9	2.7	-6.4
980	27.0	4.1	-5.7	15.8	15.9	1.1	301.9	2.7	-6.5
974	26.3	4.5	-5.7	17.6	16.0	1.1	301.7	3.0	-6.6
969	25.9	4.4	-5.7	17.6	15.9	1.1	301.8	2.9	-6.6
963	25.3	4.3	-5.8	21.7	15.8	1.1	301.8	2.7	-6.6
956	24.7	4.7	-5.8	22.2	15.8	1.1	301.7	3.2	-6.7
950	24.2	4.6	-5.9	22.9	15.7	1.1	301.7	3.1	-6.9
943	23.5	4.7	-5.9	26.1	15.7	1.2	301.6	3.1	-6.9
936	22.8	4.5	-6.0	26.4	15.7	0.95	301.6	2.9	-6.9
928	22.1	4.9	-6.3	28.1	15.6	1.2	301.6	3.2	-7.3
920	21.4	5.1	-8.0	29.9	14.7	0.95	301.7	3.0	-9.0
898	20.5	5.3	-10.3	27.8	13.0	0.20	302.8	2.7	-11.3
871	19.0	5.4	-10.0	23.4	12.2	0.20	303.9	2.9	-11.0
840	17.1	5.0	-9.2	16.9	11.2	0.20	305.1	2.7	-10.1
806	15.1	5.0	-7.7	10.9	10.4	0.20	306.6	3.0	-8.6
770	12.6	4.2	-5.6	0	9.3	0.20	308.0	2.8	-6.5
731	10.0	2.8	-4.5	-8.5	8.3	0.20	309.8	1.7	-5.0
690	7.5	4.1	-4.3	-5.3	7.1	0.20	312.1	2.9	-5.1
646	4.4	3.9	-4.7	0	5.8	0.20	314.5	2.6	-5.5
599	1.1	4.5	-5.0	3.5	4.4	0.20	317.5	3.2	-5.9
551	-1.9	6.2	-5.8	-1.8	4.6	0.20	321.6	4.6	-7.1
502	-7.1	1.4	-2.7	-4.8	2.6	0.20	324.0	0.7	-3.0
453	-12.2	0	-0.33	0	1.3	0.20	327.3	-0.1	-0.3
403	-18.0	-3.0	-3.0	7.0	0.48	0.20	330.8	-3.7	-2.2
354	-25.2	-3.6	0	10.5	0.25	0.20	333.8	-3.5	0.9
305	-32.6	-1.2	5.1	7.0	0.18	0.20	337.8	0.0	5.2
260	-41.4	-10.7	8.7	0	0.20	0.20	340.6	-8.3	11.0
221	-50.4	-10.3	9.4	0	1E-1	0.20	343.2	-7.8	11.6
183	-61.8	-9.0	5.4	-6.1	3E-2	0.20	343.3	-7.4	7.4
138	-72.4	-10.6	-0.60	-1.9	1E-2	0.20	353.5	-10.4	2.0
88	-64.7	-11.6	-2.3	-0.33	1E-2	0.20	417.2	-11.9	0.6
63	-59.2	-13.1	-3.4	1E-1	1E-2	0.20	471.5	-13.5	-0.2
38	-46.8	-28.1	-5.9	1E-1	3E-2	0.20	577.3	-28.7	1.0

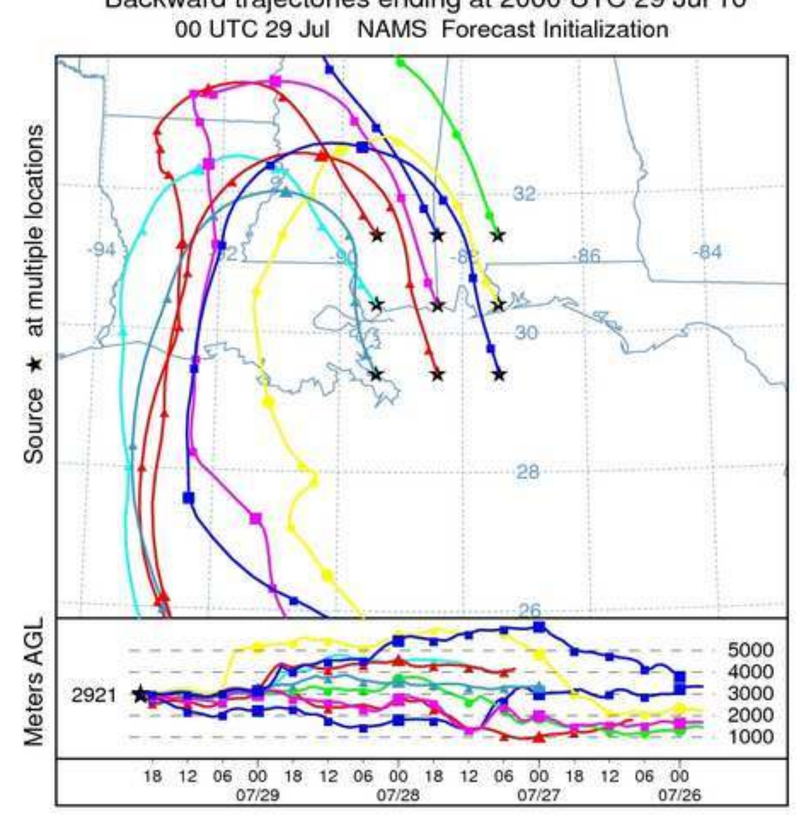

FORECAST for 2010_07_29, local hour = 15
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 2000 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
4000
3000
2000
1000
170
07/29
07/28
07/27
07/26

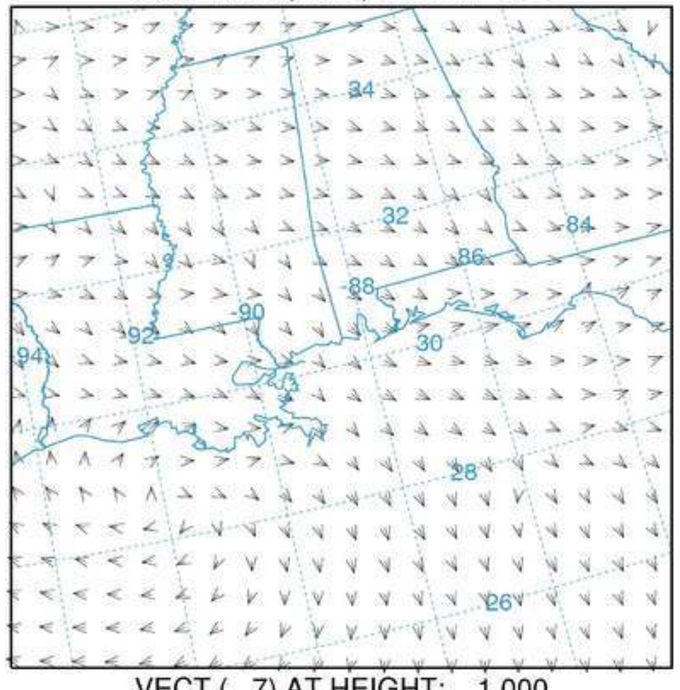

NOAA HYSPLIT MODEL
Backward trajectories ending at 2000 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2000
1500
1000
500
420
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2000 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2000
1500
1000
500
920
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2000 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
4000
3500
3000
2500
2000
1500
1000
500
1921
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2000 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
5000
4000
3000
2000
1000
2921
07/29
07/28
07/27
07/26

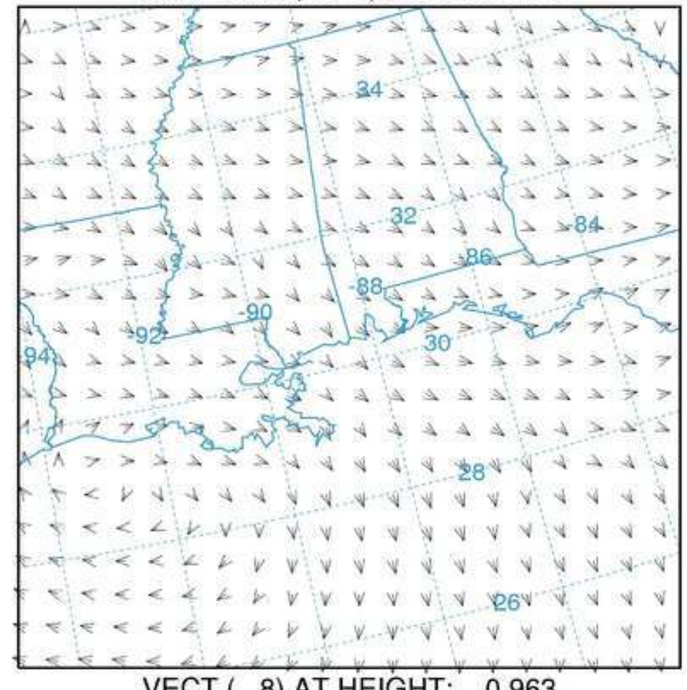
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/20



VECT (7) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

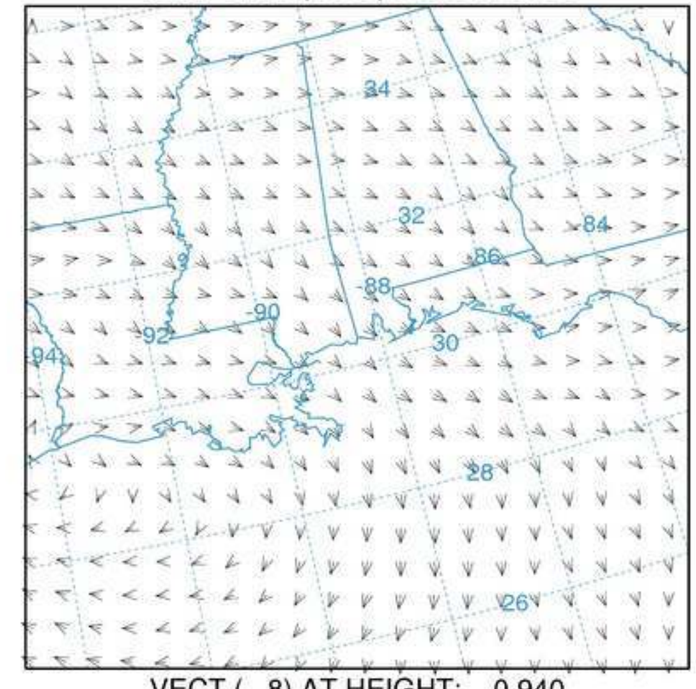
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/20



VECT (8) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

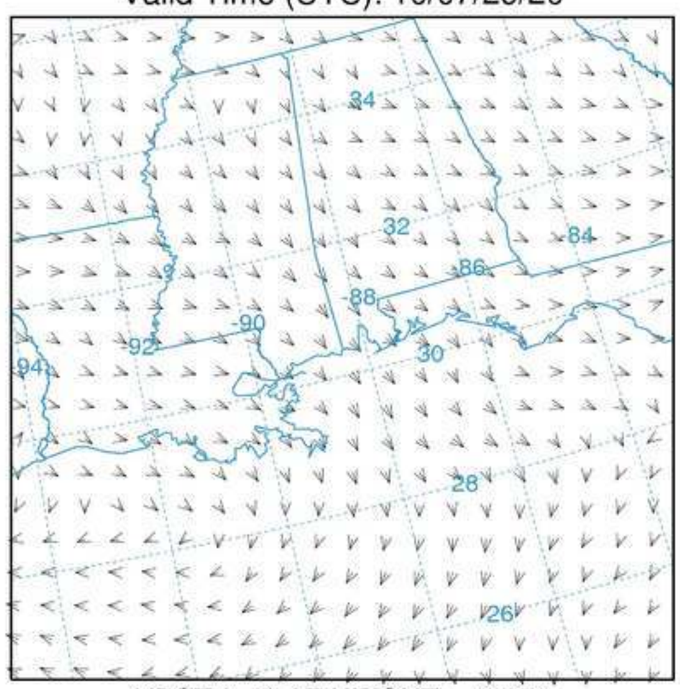
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/20



VECT (8) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

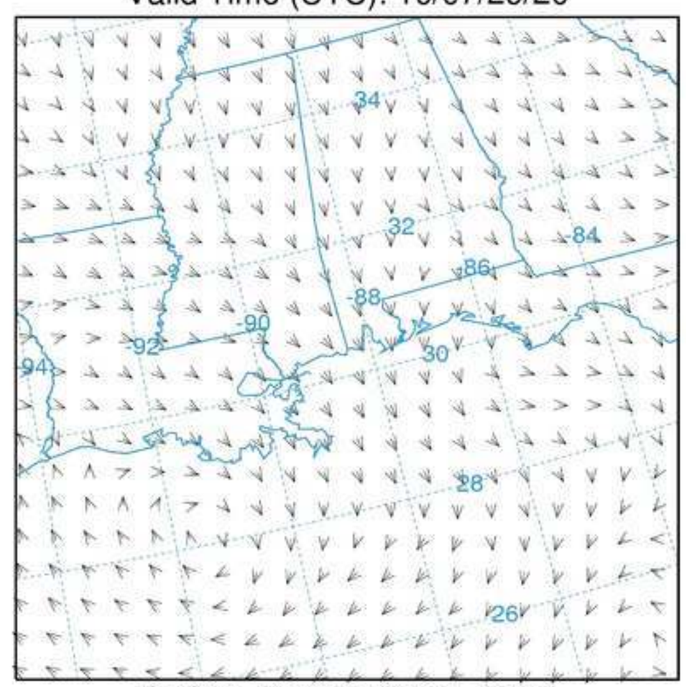
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/20



VECT (8) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

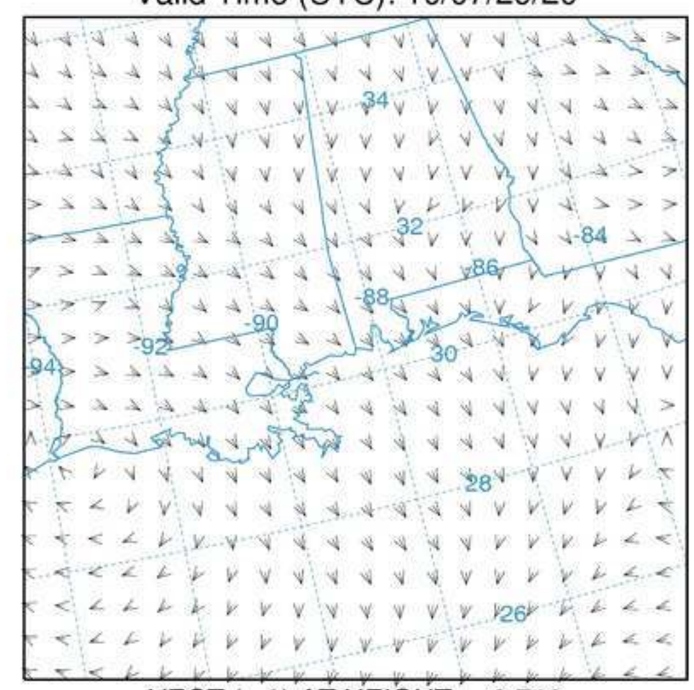
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/20



VECT (8) AT HEIGHT: 0.826

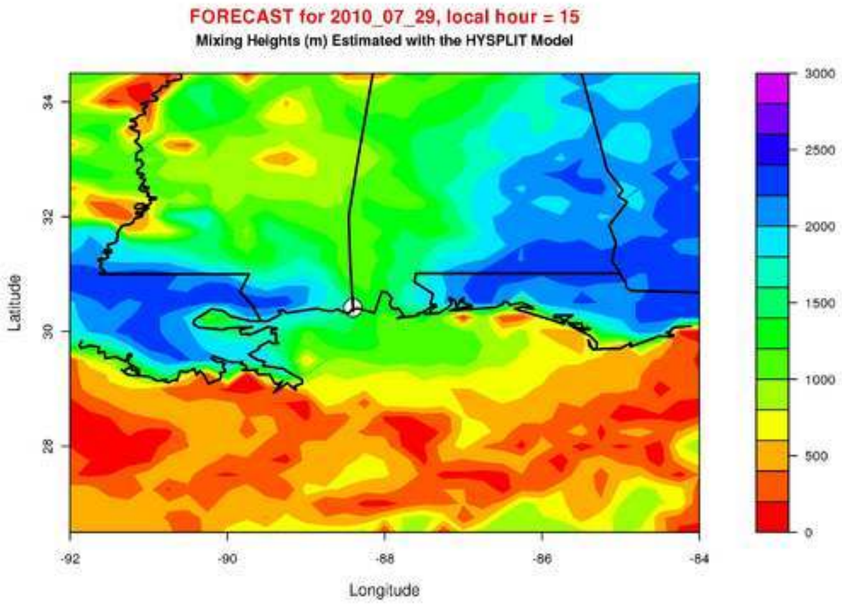
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

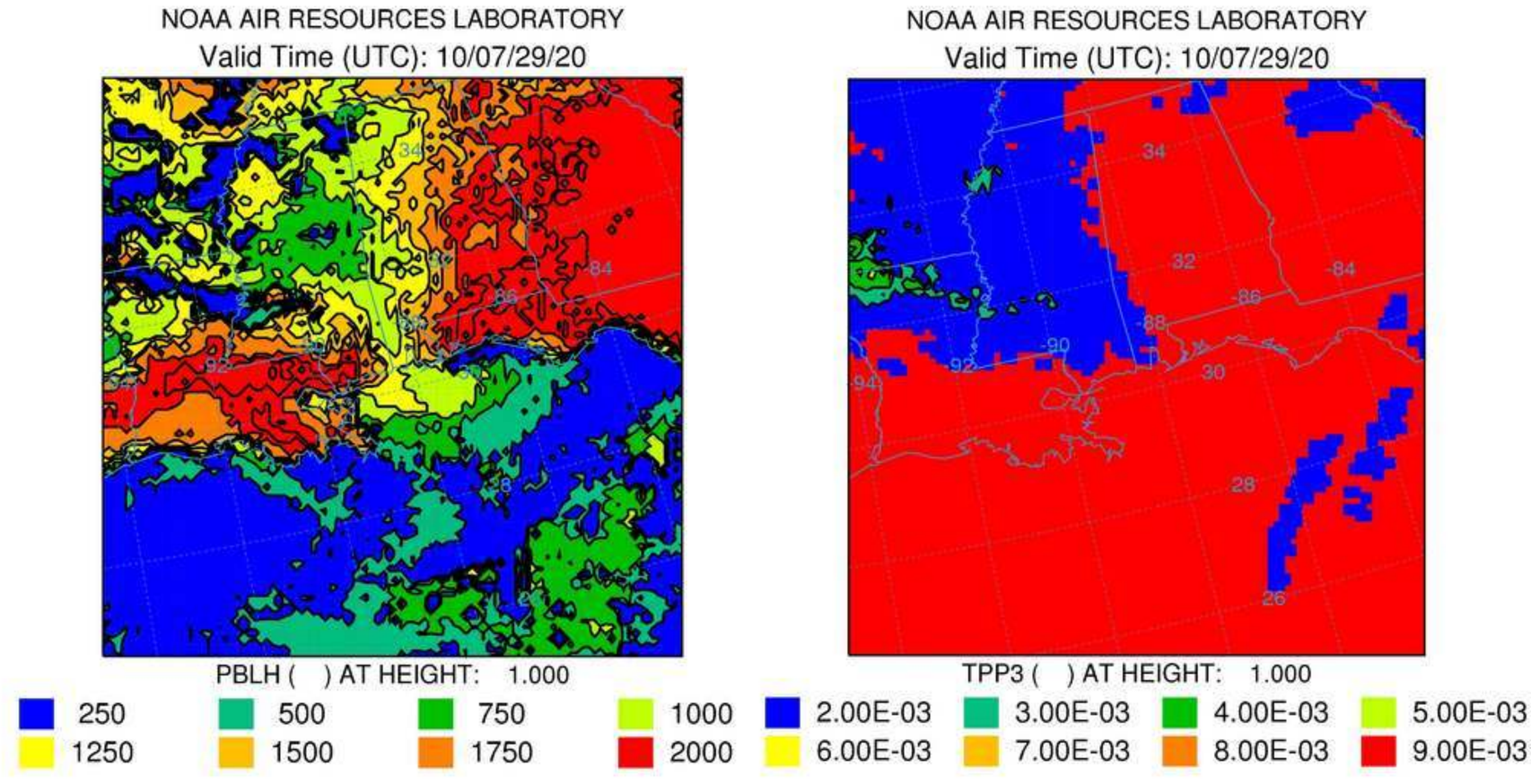
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/20

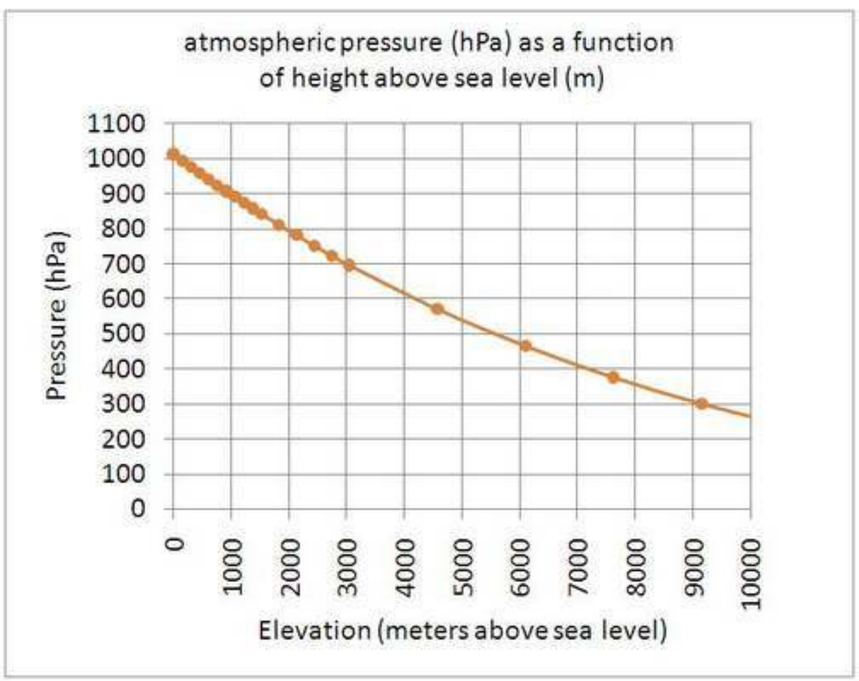


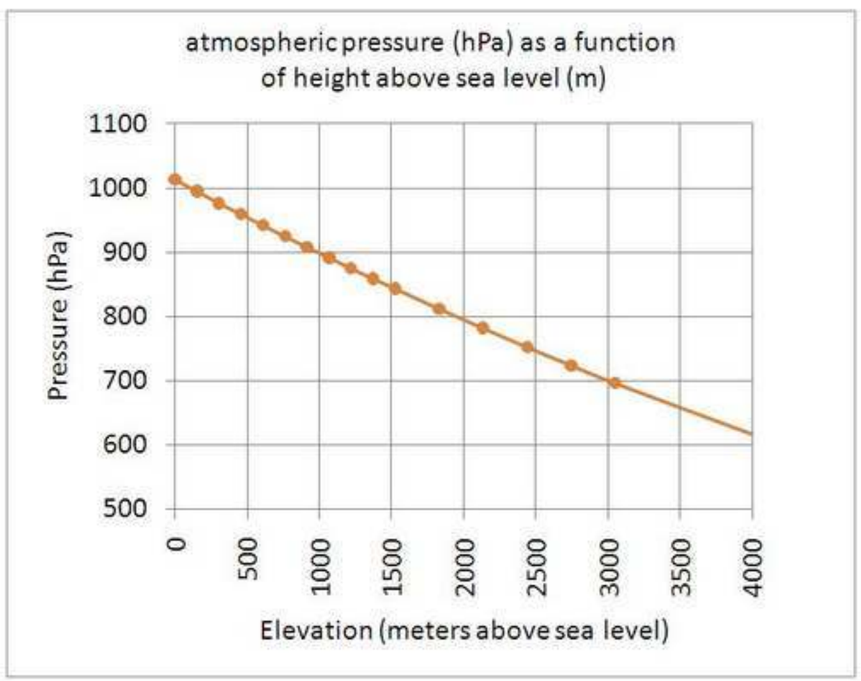
VECT (9) AT HEIGHT: 0.718

Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 15
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/20
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/20
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000
Elevation (meters above sea level)


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000
Elevation (meters above sea level)

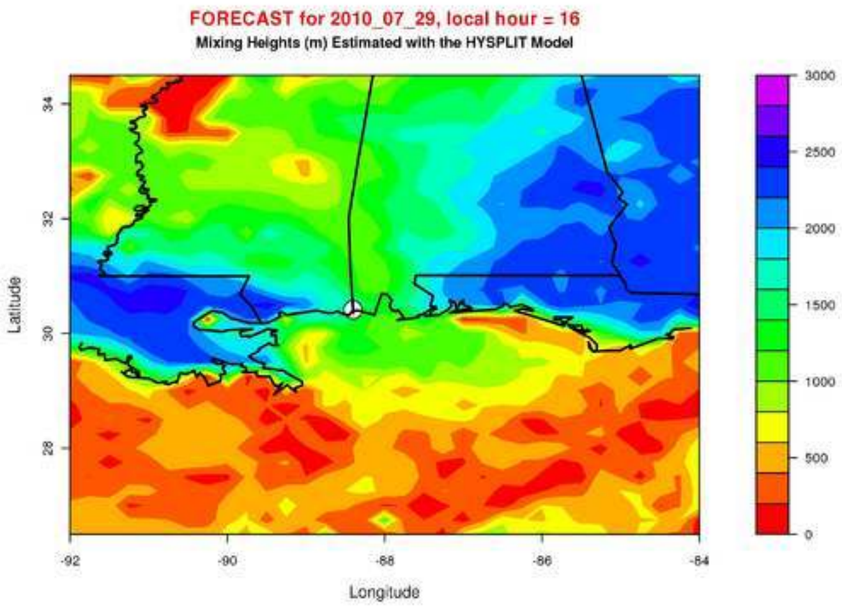
Meteorological Profile: hysplit.t00z.namsf

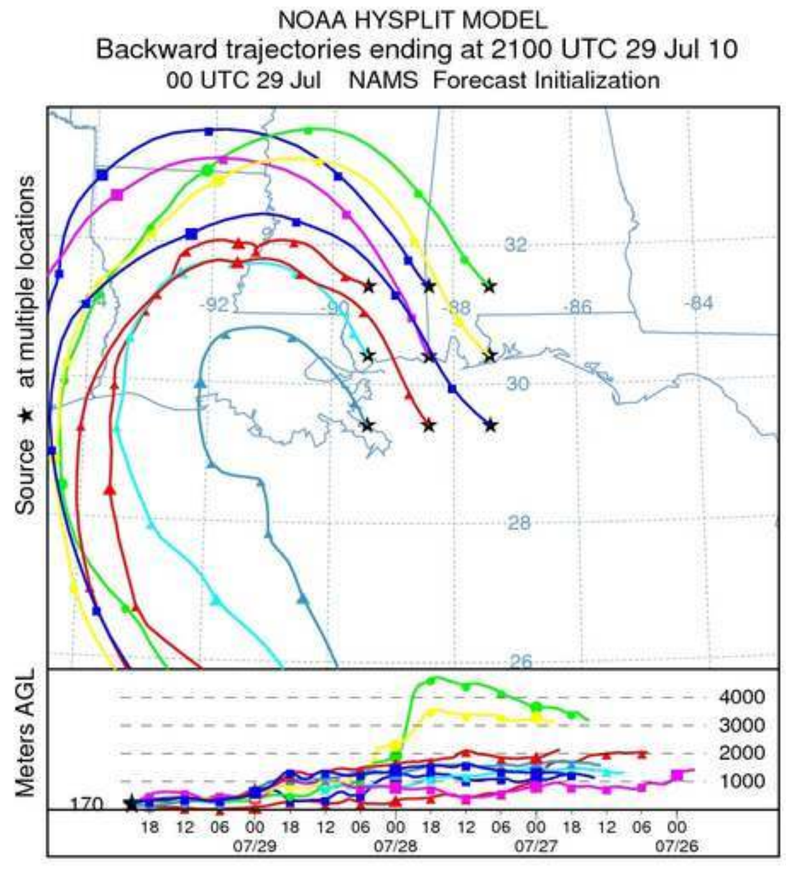
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

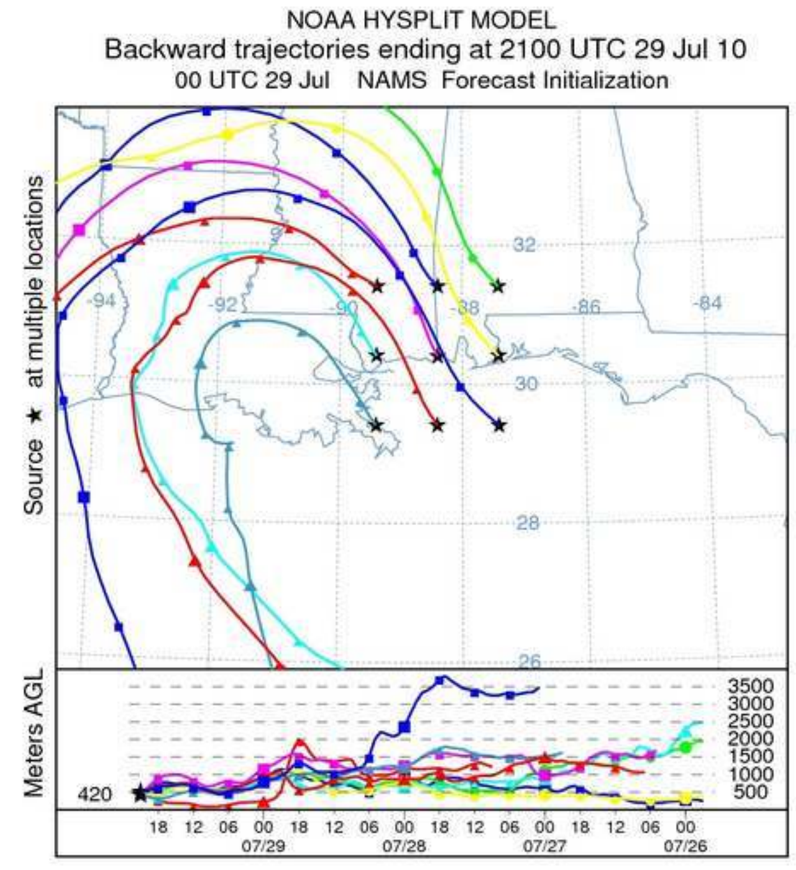
Profile Time: 10 7 29 20 0
Profile Location: 30.41 -88.40 (335,110)

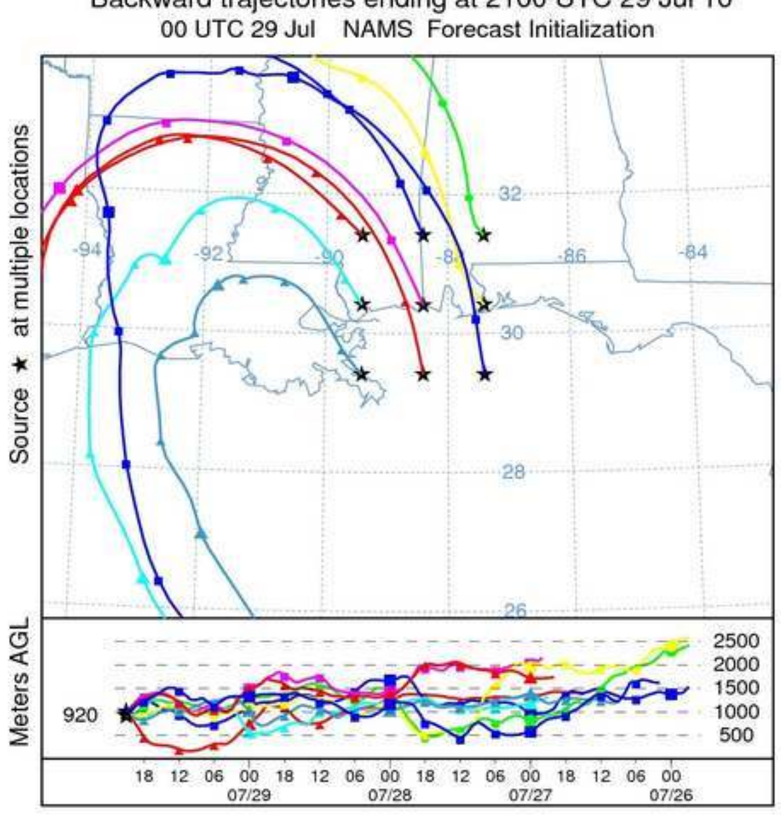
	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1017	0	1018	0	30.8	64.0	3.4	-4.4	1017	215	8.9	0.19	0	865	1311

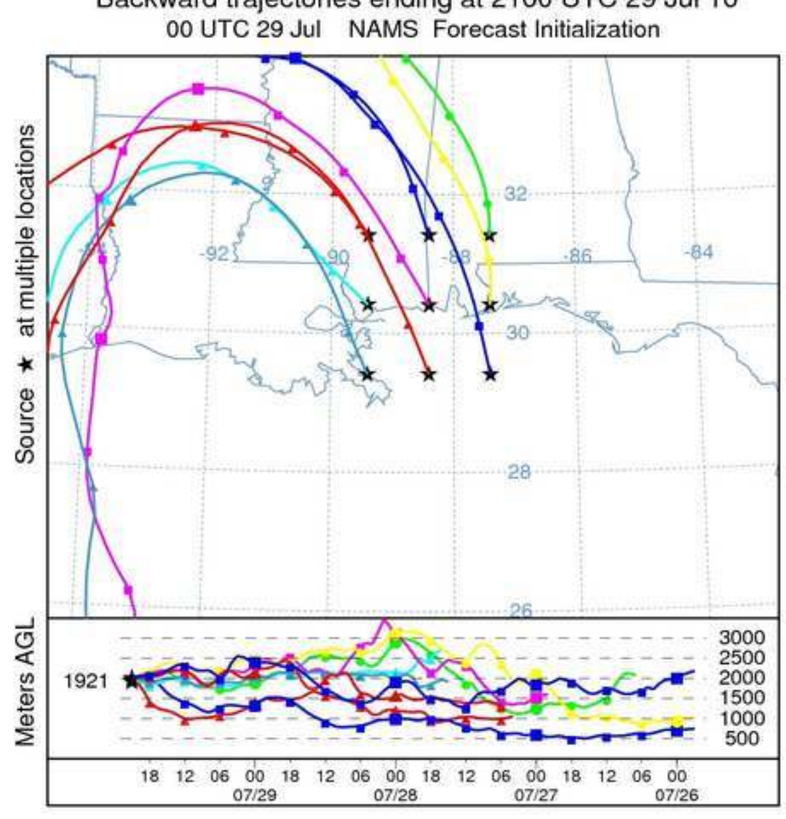
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1015	30.1	4.6	-5.0	6.0	16.1	0.52	302.0	3.3	-5.9
1010	29.7	4.5	-5.0	5.3	16.1	0.64	302.0	3.2	-5.9
1005	29.2	4.4	-5.1	7.0	16.1	0.70	302.0	3.1	-6.0
1000	28.8	4.4	-5.0	8.8	16.1	0.68	301.9	3.1	-6.0
995	28.4	4.9	-5.1	10.5	16.0	0.70	302.0	3.5	-6.1
990	27.9	4.7	-5.1	12.3	16.0	0.70	302.0	3.4	-6.1
985	27.6	4.7	-5.2	12.3	15.9	0.70	302.1	3.3	-6.2
979	27.0	4.7	-5.2	15.8	15.9	0.70	301.9	3.3	-6.2
974	26.6	4.8	-5.2	18.0	15.9	0.82	302.0	3.4	-6.2
968	26.0	4.8	-5.3	17.6	15.9	0.70	301.9	3.4	-6.3
962	25.4	5.1	-5.4	19.3	15.9	0.70	301.9	3.7	-6.5
956	24.9	5.1	-5.4	19.3	15.7	0.70	301.9	3.7	-6.5
950	24.2	5.1	-5.5	20.7	15.7	0.70	301.8	3.6	-6.5
943	23.7	5.1	-5.5	22.1	15.6	0.70	301.9	3.6	-6.5
936	23.2	5.5	-6.1	24.6	15.1	0.70	302.0	3.9	-7.2
928	22.8	5.9	-7.5	24.5	14.3	0.57	302.3	4.0	-8.7
920	22.5	5.7	-9.0	23.8	13.4	0.45	302.9	3.4	-10.1
898	21.2	5.6	-9.3	19.3	12.7	0.20	303.5	3.2	-10.4
871	19.5	5.2	-9.1	15.8	12.1	0.20	304.4	2.9	-10.1
840	17.5	4.9	-8.2	12.0	11.4	0.20	305.5	2.8	-9.1
806	15.1	5.2	-7.1	6.0	10.6	0.20	306.7	3.3	-8.1
770	12.5	5.5	-5.4	0	9.6	0.20	307.9	4.0	-6.5
731	9.8	3.1	-4.8	-1.8	8.6	0.20	309.5	1.9	-5.4
689	7.1	4.0	-4.2	0	7.3	0.20	311.7	2.9	-5.1
646	4.4	4.0	-4.4	1.8	5.8	0.20	314.6	2.8	-5.3
599	1.2	4.5	-4.5	7.0	4.4	0.20	317.7	3.3	-5.4
551	-1.8	6.0	-6.1	1.8	4.6	0.20	321.7	4.4	-7.3
502	-7.1	1.8	-3.1	0	3.2	0.20	324.0	1.0	-3.5
453	-12.1	0.64	-1.1	0	1.3	0.20	327.4	0.3	-1.2
403	-17.6	-3.0	-3.6	3.5	0.51	0.20	331.3	-3.8	-2.8
354	-24.6	-3.3	-0.26	10.5	0.24	0.21	334.6	-3.3	0.5
305	-32.7	-1.6	3.6	2.9	0.19	0.20	337.8	-0.7	3.9
260	-41.4	-9.0	7.5	0	0.21	0.20	340.6	-7.0	9.4
221	-50.6	-8.8	8.2	0	1E-1	0.20	342.8	-6.5	10.0
183	-61.9	-7.4	4.9	0	3E-2	0.20	343.3	-6.0	6.6
138	-72.6	-9.4	-0.33	1.00	1E-2	0.20	353.2	-9.2	1.9
88	-64.7	-11.2	-2.2	-0.24	1E-2	0.20	417.3	-11.4	0.5
63	-59.7	-13.2	-3.3	0.70	1E-2	0.20	470.5	-13.6	0.0
38	-46.5	-27.8	-6.6	0	3E-2	0.20	578.1	-28.6	0.3

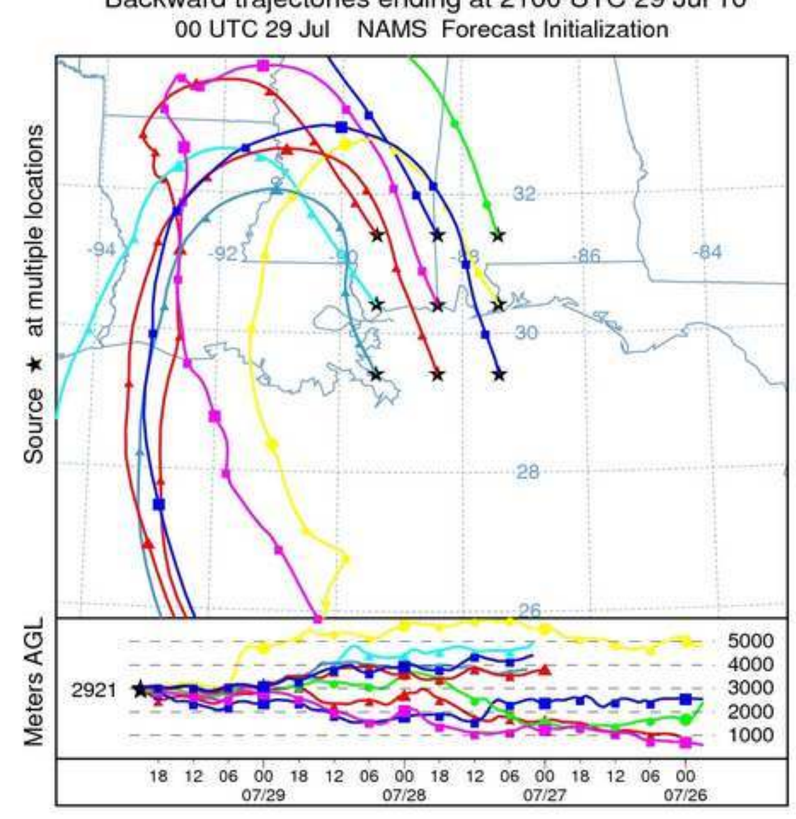

FORECAST for 2010_07_29, local hour = 16
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 2100 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
170
4000
3000
2000
1000
07/29
07/28
07/27
07/26

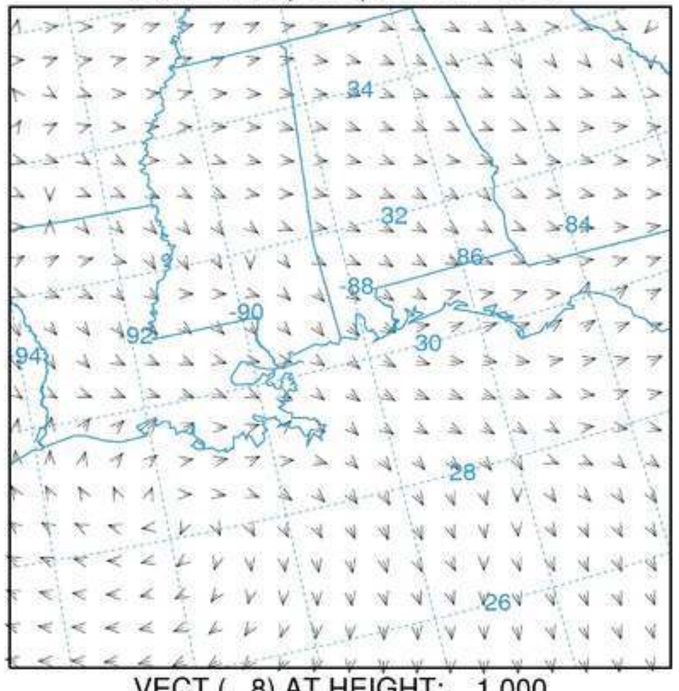

NOAA HYSPLIT MODEL
Backward trajectories ending at 2100 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
420
3500
3000
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2100 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
920
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2100 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1921
3000
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2100 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
5000
4000
3000
2000
1000
07/29
07/28
07/27
07/26

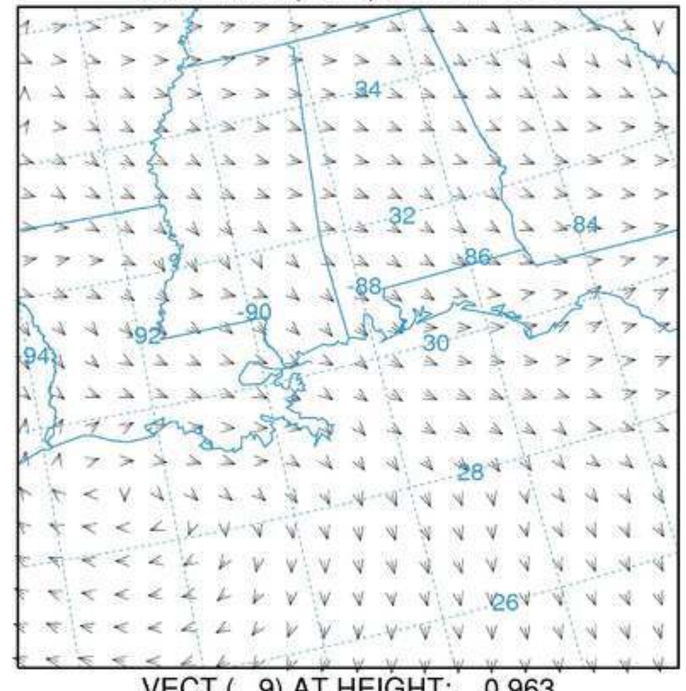
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/21



VECT (8) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

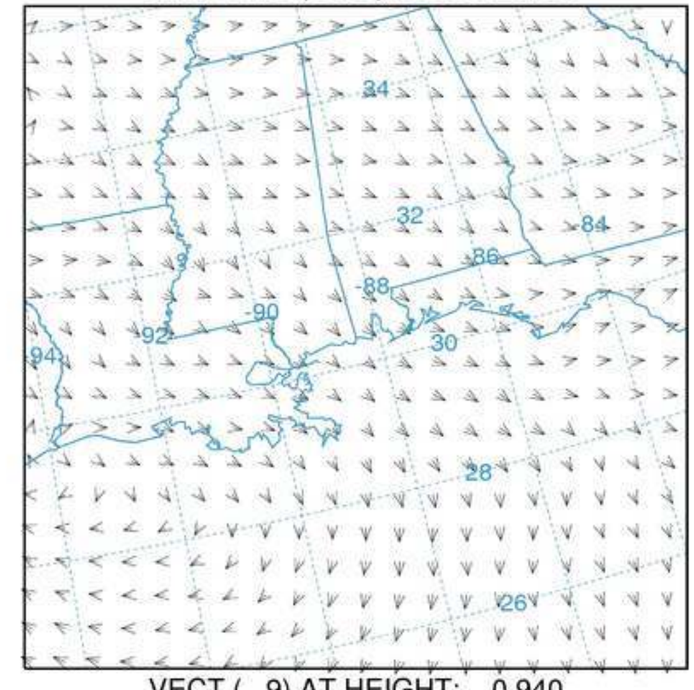
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/21



VECT (9) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

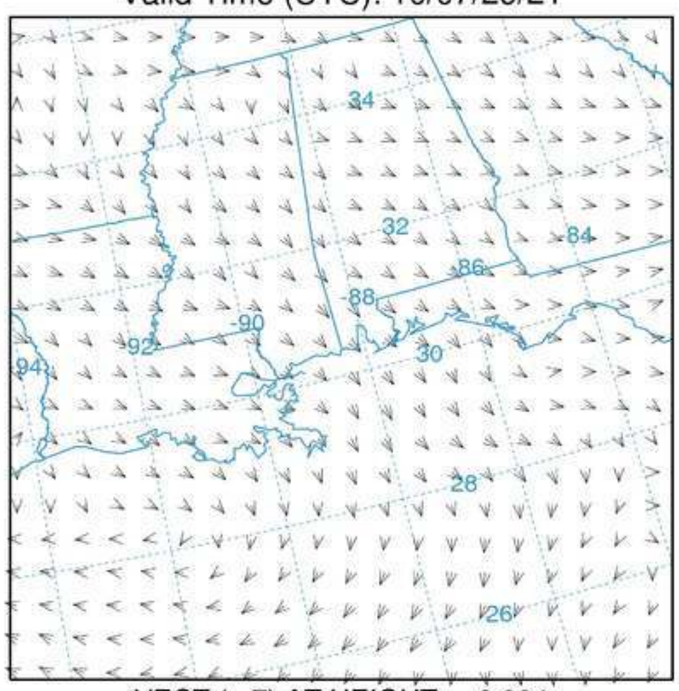
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/21



VECT (9) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

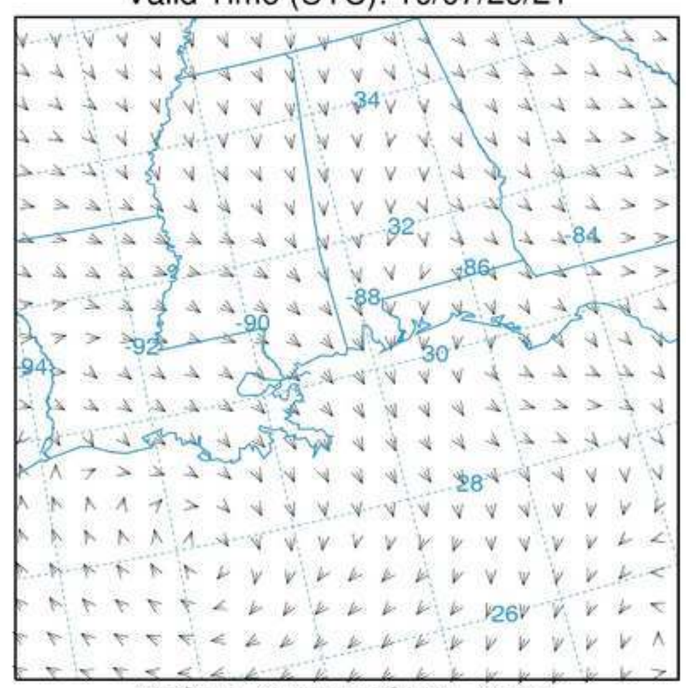
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/21



VECT (7) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

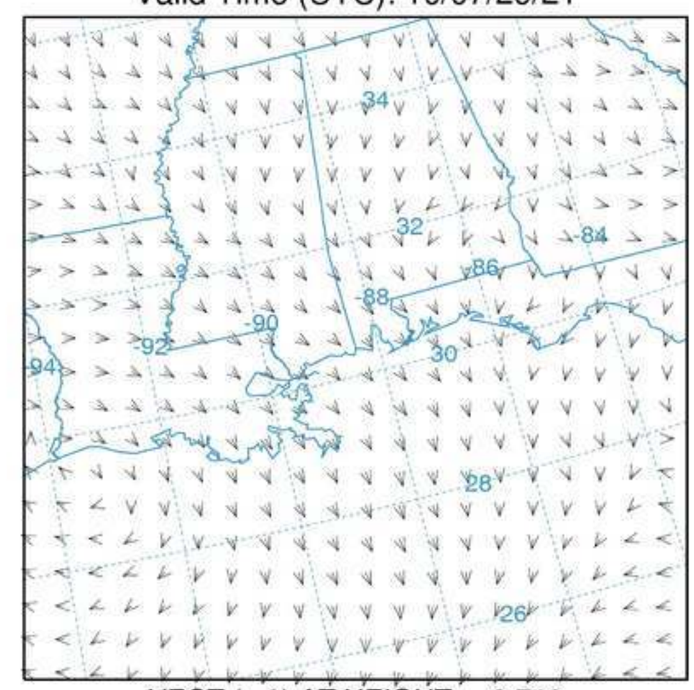
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/21



VECT (8) AT HEIGHT: 0.826

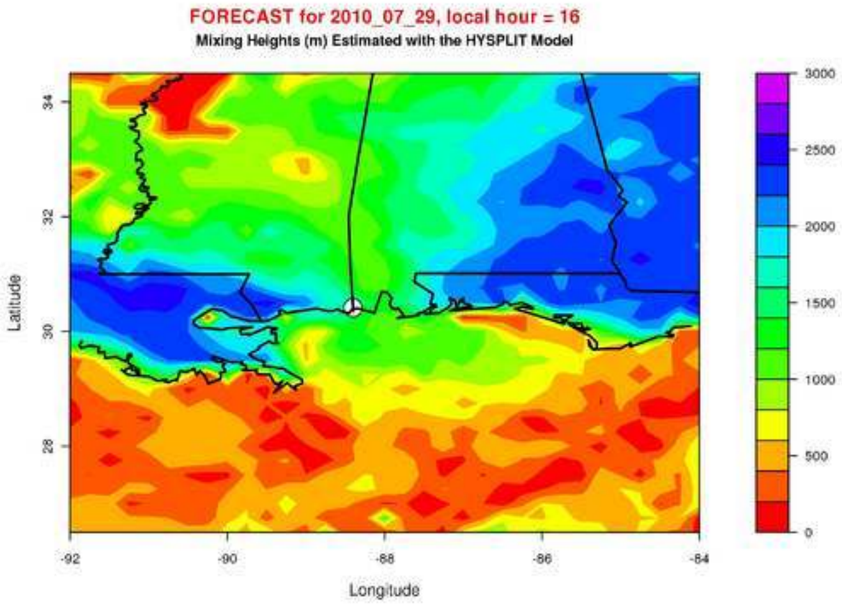
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

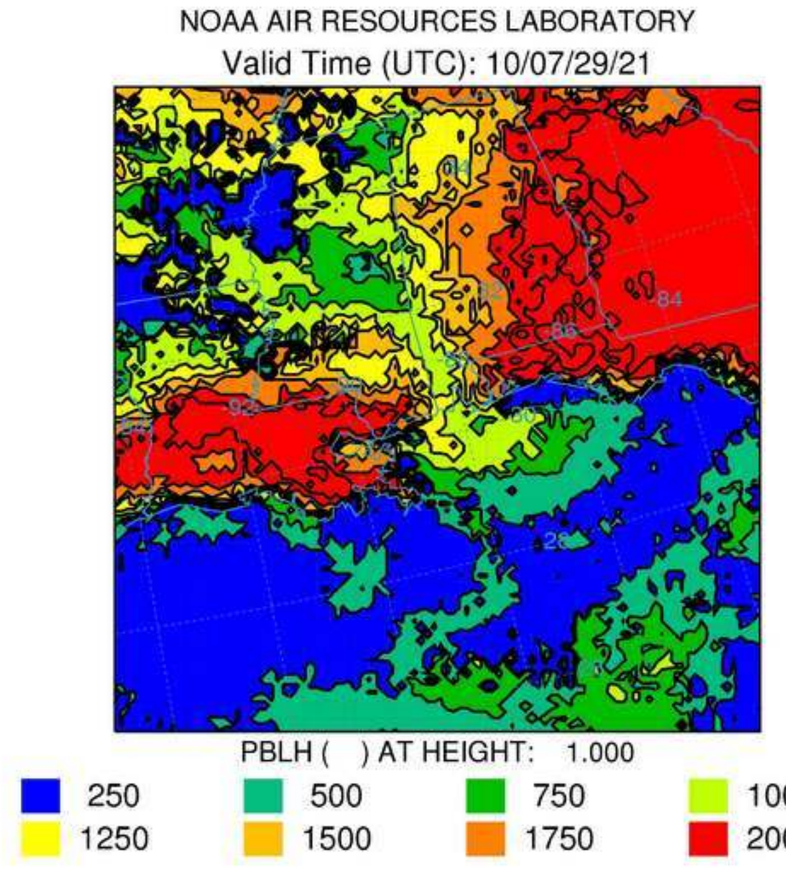
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/21

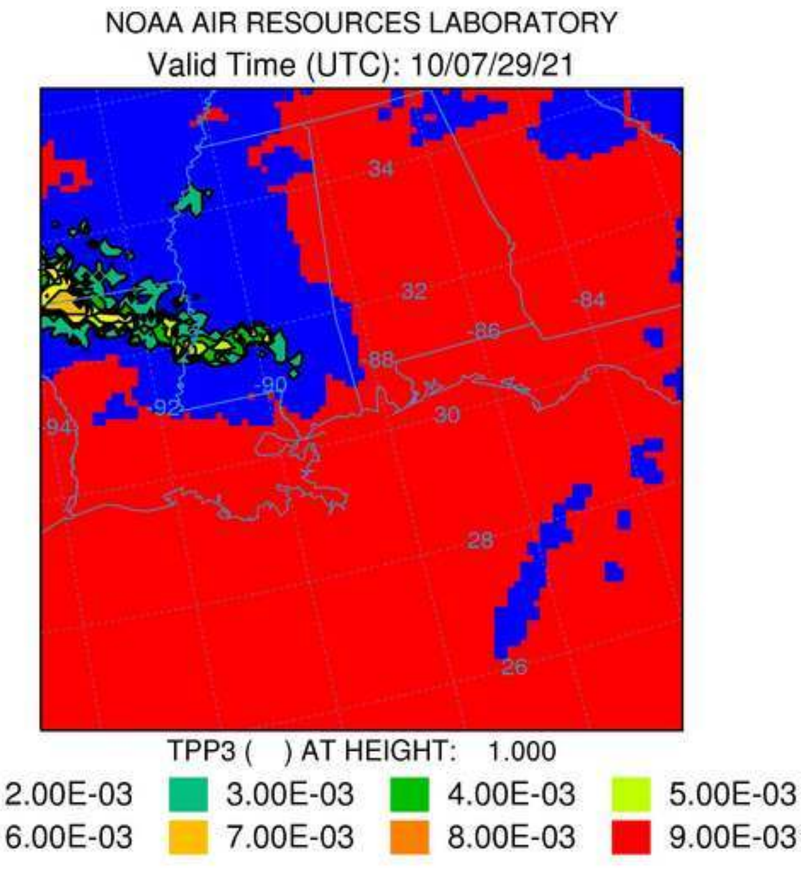


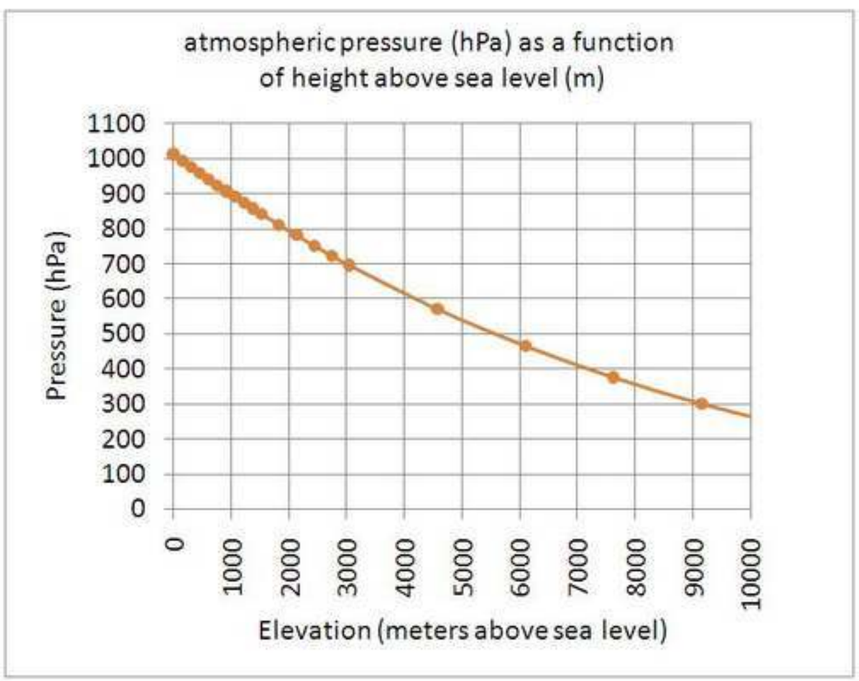
VECT (9) AT HEIGHT: 0.718

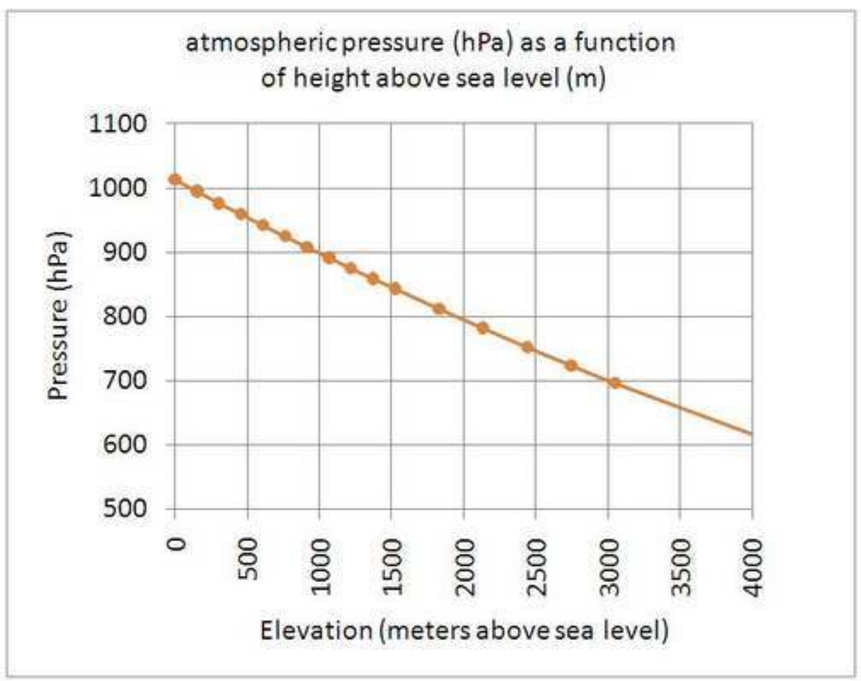
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 16
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/21
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/21
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

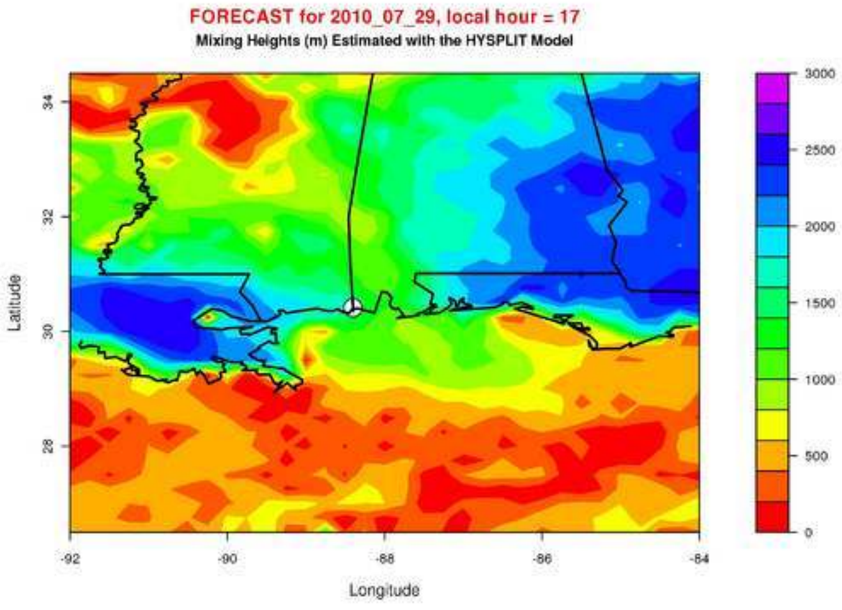
Meteorological Profile: hysplit.t00z.namsf

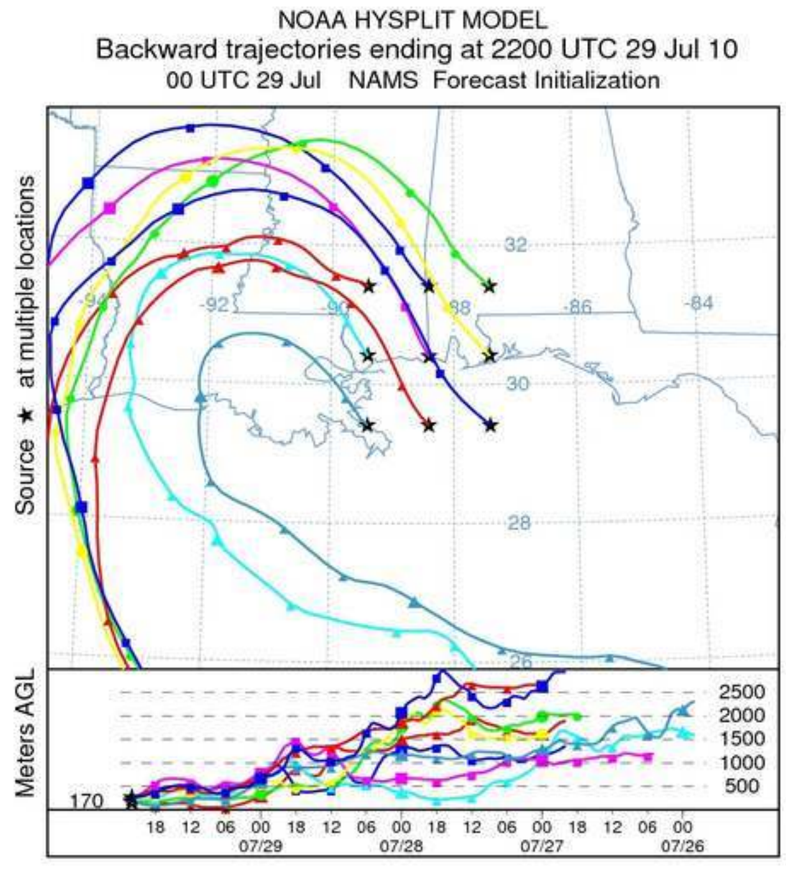
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

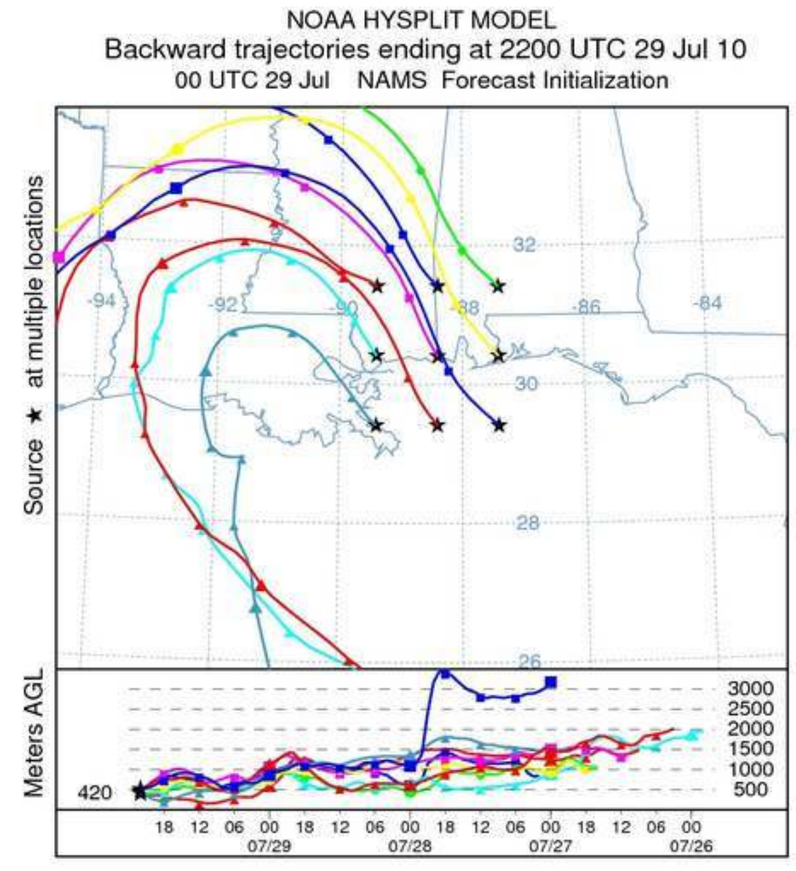
Profile Time: 10 7 29 21 0
Profile Location: 30.41 -88.40 (335,110)

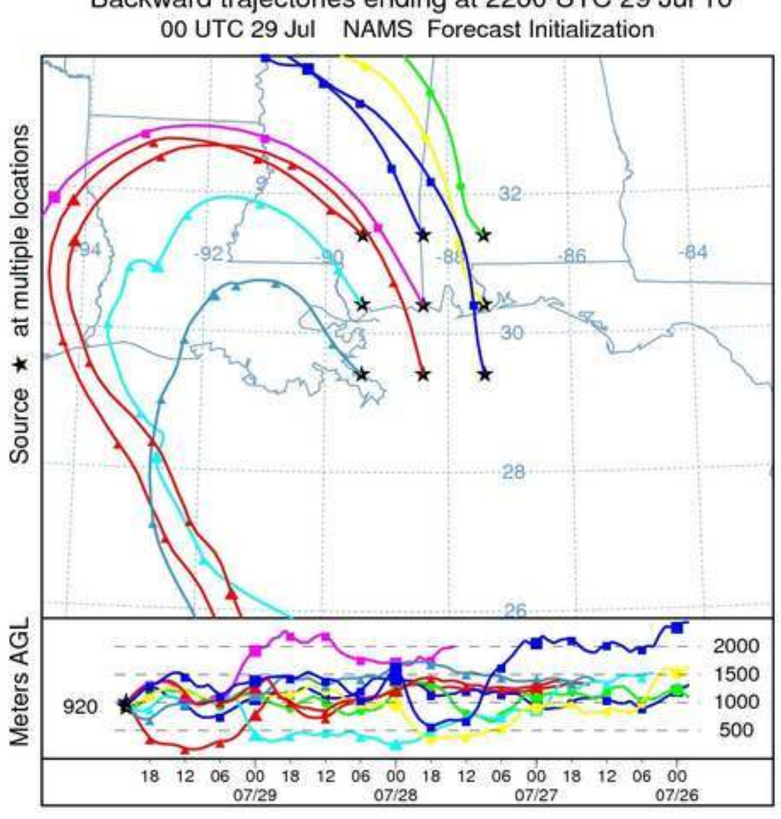
	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1017	0	1017	0	31.3	62.8	4.0	-4.3	1017	220	0	0.18	0	747	1316

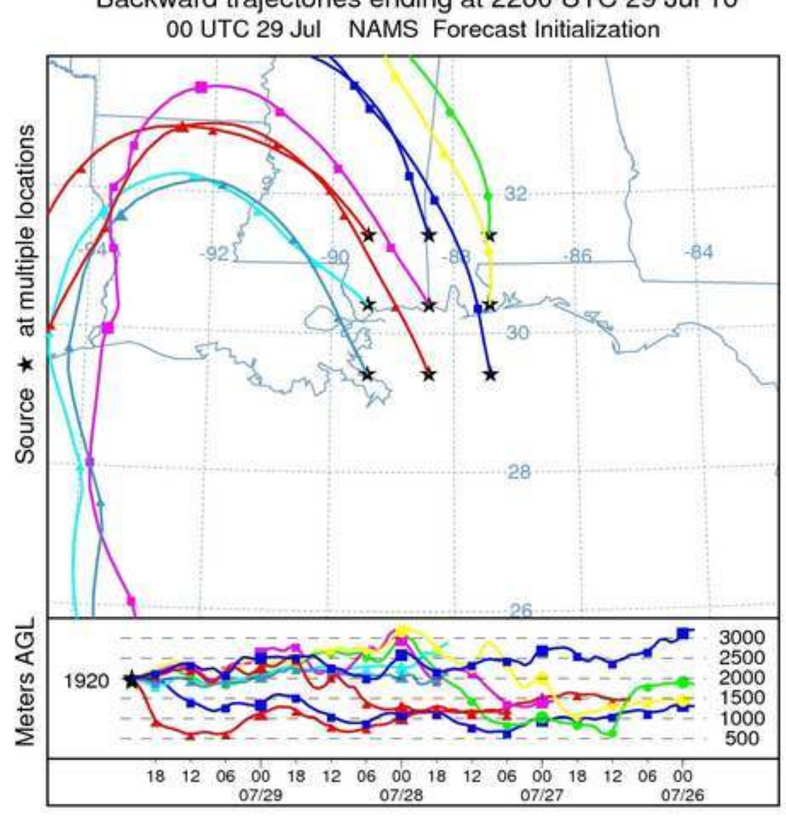
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1014	30.5	5.1	-4.9	3.5	16.1	0.55	302.4	3.7	-6.0
1010	30.1	4.9	-5.1	5.3	16.1	0.57	302.5	3.6	-6.1
1005	29.6	4.9	-5.1	6.1	15.9	0.70	302.4	3.5	-6.1
1000	29.2	5.3	-5.1	8.8	16.0	0.70	302.4	3.9	-6.3
995	28.8	5.3	-5.1	8.8	15.9	0.70	302.4	3.9	-6.2
990	28.3	5.4	-5.1	9.9	15.9	0.70	302.3	4.0	-6.2
984	27.8	4.9	-5.3	10.5	15.8	0.70	302.3	3.5	-6.3
979	27.5	5.4	-5.3	13.4	15.8	0.70	302.4	4.0	-6.5
974	26.9	5.5	-5.3	13.3	15.8	0.70	302.4	4.1	-6.4
968	26.4	5.5	-5.4	13.6	15.8	0.69	302.3	4.0	-6.5
962	25.9	5.2	-5.3	13.7	15.7	0.69	302.4	3.7	-6.4
956	25.3	5.6	-5.3	15.0	15.7	0.69	302.3	4.2	-6.5
949	24.6	5.3	-5.5	16.4	15.7	0.69	302.2	3.8	-6.6
943	24.0	5.7	-5.6	17.9	15.5	0.75	302.2	4.2	-6.8
936	23.9	6.3	-6.9	19.1	14.4	0.75	302.7	4.5	-8.2
928	23.4	6.6	-7.9	17.7	13.6	0.75	303.0	4.5	-9.3
919	22.7	6.9	-9.0	18.9	13.0	0.75	303.1	4.5	-10.4
898	21.5	6.6	-9.4	14.6	12.4	0.20	303.9	4.1	-10.7
871	19.7	5.6	-8.5	12.4	11.9	0.20	304.7	3.4	-9.6
840	17.6	4.9	-7.8	6.6	11.2	0.20	305.6	2.9	-8.7
806	15.3	5.5	-6.9	3.2	10.3	0.20	306.8	3.7	-8.0
769	12.5	5.6	-5.6	3.5	9.5	0.20	307.9	4.1	-6.8
730	9.8	3.5	-5.3	1.8	8.8	0.20	309.6	2.1	-6.0
689	7.2	3.5	-4.8	3.5	7.5	0.20	311.9	2.2	-5.5
645	4.5	4.0	-5.2	5.8	5.9	0.20	314.7	2.7	-6.0
599	1.3	3.9	-4.9	3.5	4.6	0.20	317.9	2.6	-5.7
551	-1.9	4.3	-6.4	1.8	4.6	0.20	321.7	2.7	-7.3
502	-7.1	1.4	-3.6	-1.8	3.3	0.20	324.0	0.5	-3.9
453	-12.1	0.33	-1.9	0	1.3	0.20	327.4	-0.1	-2.0
403	-17.5	-2.9	-4.4	2.4	0.57	0.20	331.5	-3.9	-3.6
353	-24.1	-2.9	-0.26	5.3	0.24	0.18	335.3	-2.8	0.4
305	-32.7	-2.6	2.2	5.8	0.20	0.20	337.8	-2.0	2.7
260	-41.6	-6.8	7.5	0	0.20	0.20	340.4	-4.8	8.9
221	-50.7	-7.1	7.9	0	1E-1	0.20	342.7	-5.0	9.4
183	-61.8	-7.0	3.4	1.8	3E-2	0.20	343.4	-6.0	5.0
138	-72.0	-9.1	0.40	-0.45	1E-2	0.20	354.3	-8.8	2.6
88	-65.3	-10.7	-3.3	-1E-1	1E-2	0.20	416.2	-11.2	-0.6
63	-60.0	-13.3	-1.7	-1E-1	1E-2	0.20	469.8	-13.4	1.5
38	-46.0	-27.8	-7.3	-0.14	3E-2	0.20	579.4	-28.7	-0.4

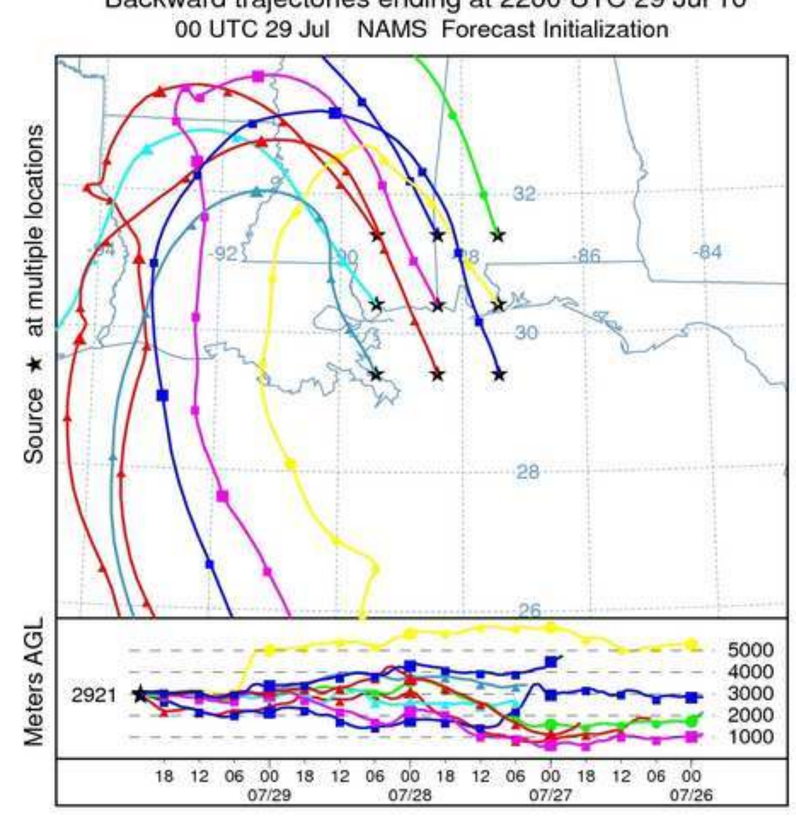

FORECAST for 2010_07_29, local hour = 17
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 2200 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
170
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26

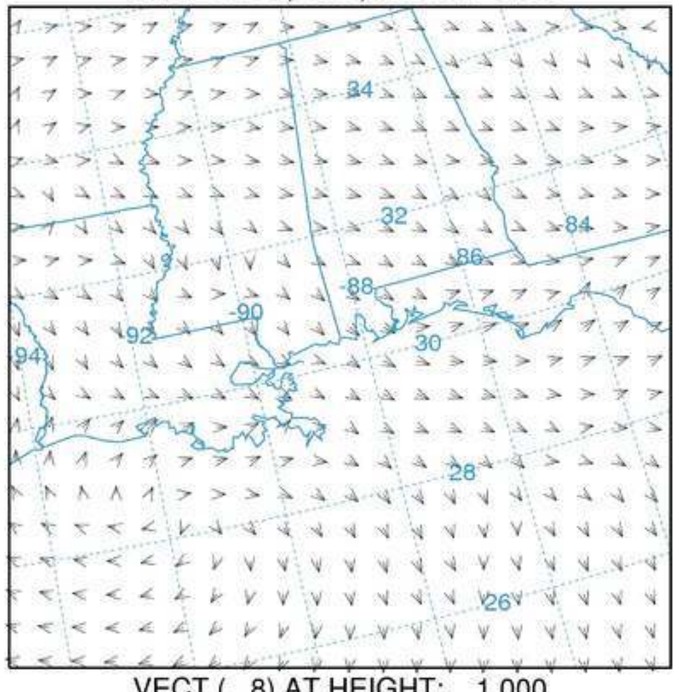

NOAA HYSPLIT MODEL
Backward trajectories ending at 2200 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
420
3000
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2200 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
920
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2200 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1920
3000
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2200 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
5000
4000
3000
2000
1000
07/29
07/28
07/27
07/26

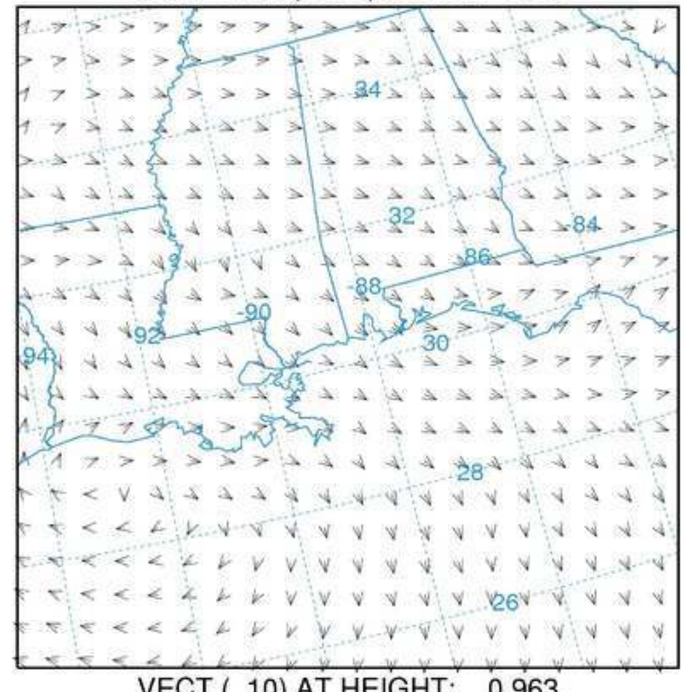
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/22



VECT (8) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

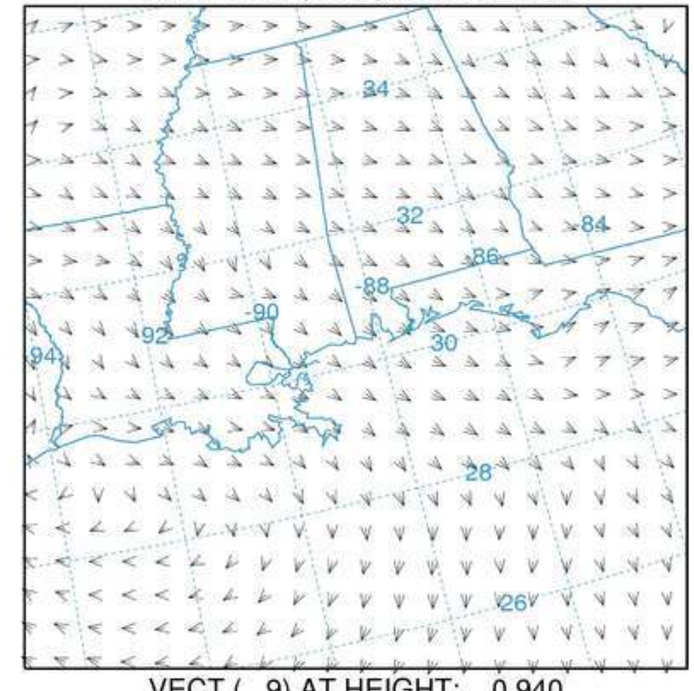
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/22



VECT (10) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

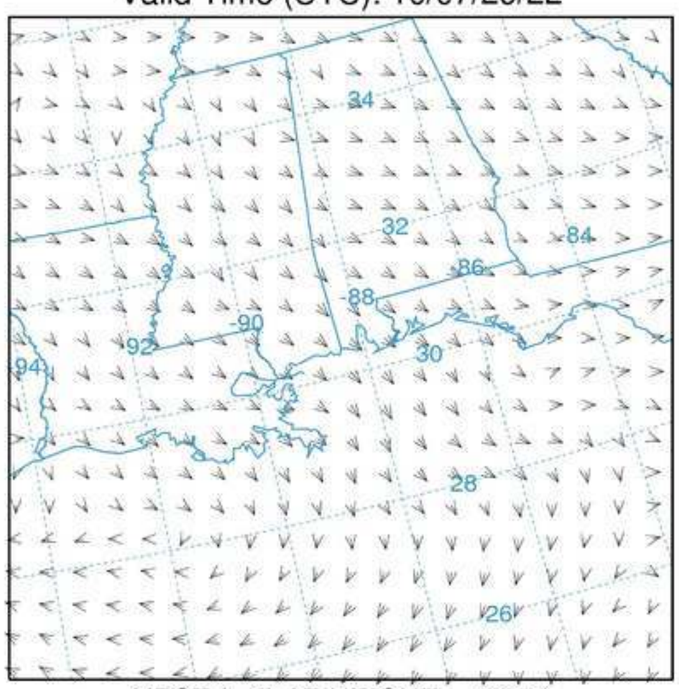
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/22



VECT (9) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

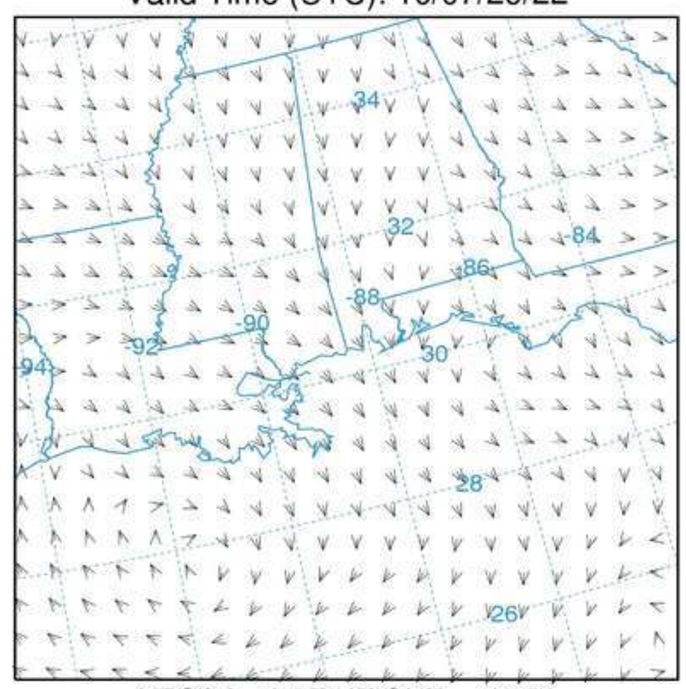
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/22



VECT (8) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

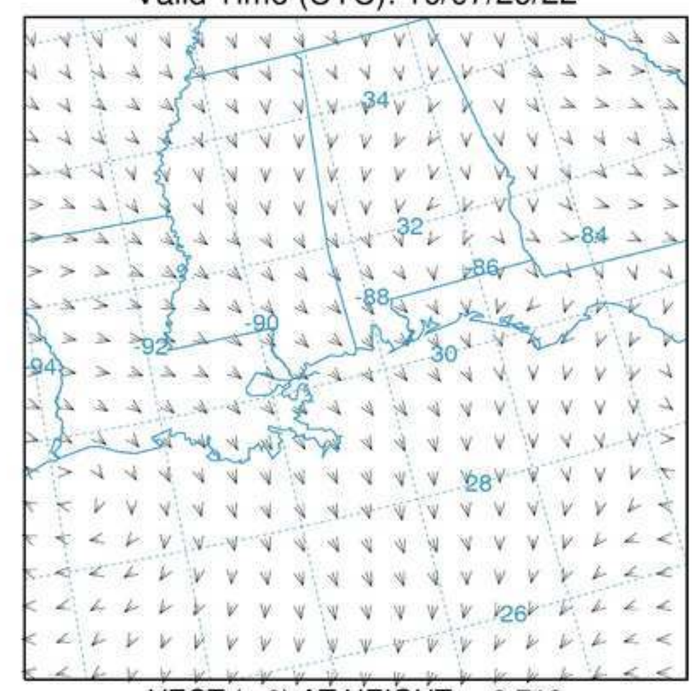
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/22



VECT (9) AT HEIGHT: 0.826

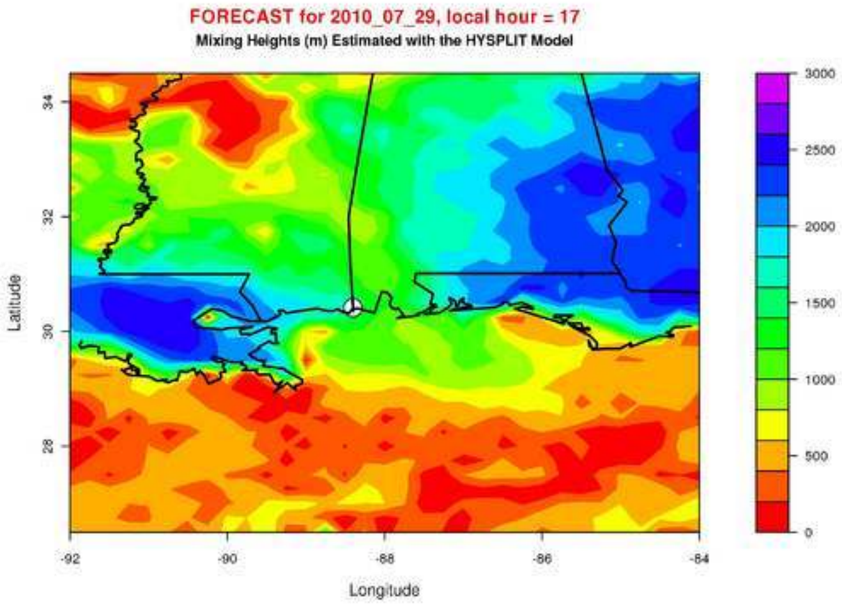
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

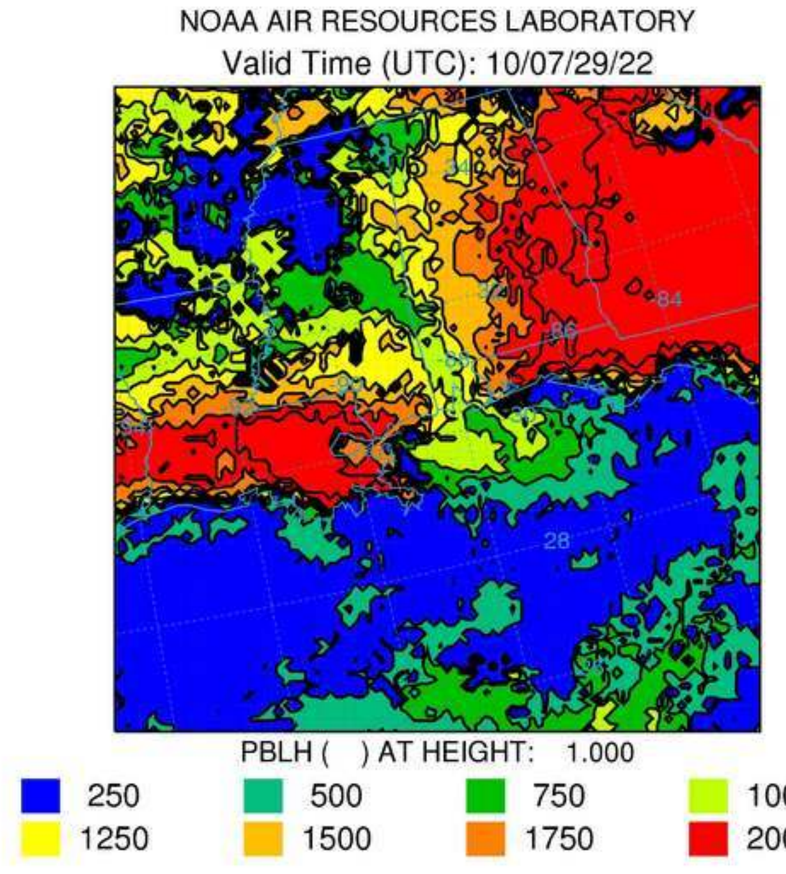
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/22

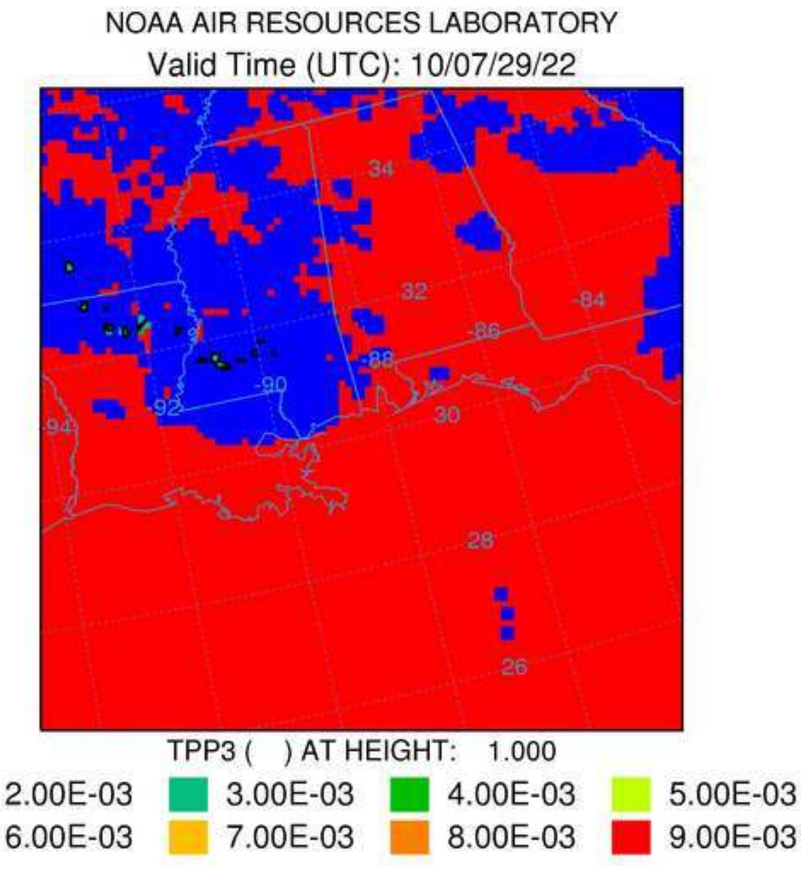


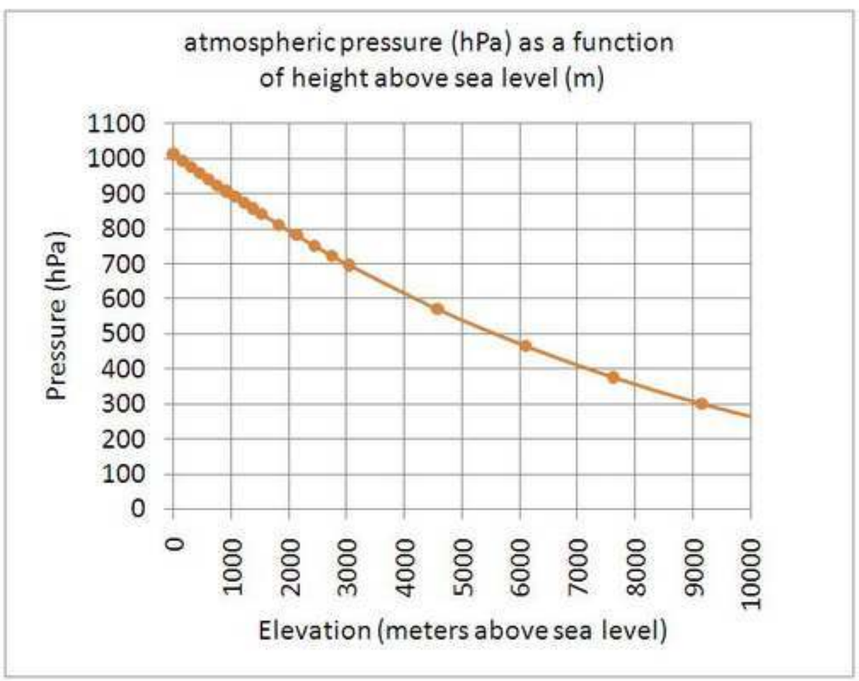
VECT (9) AT HEIGHT: 0.718

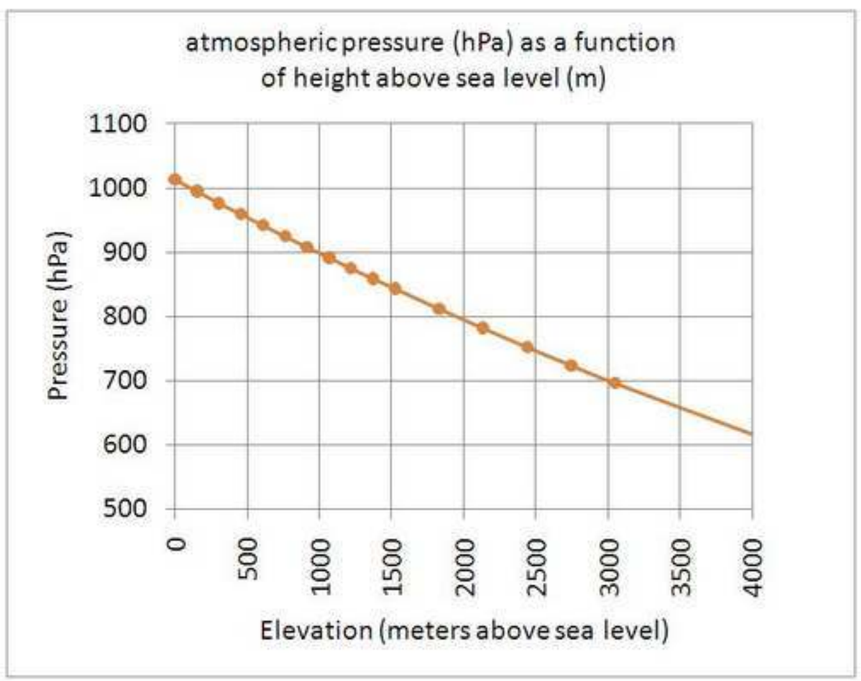
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 17
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/22
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/22
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

Meteorological Profile: hysplit.t00z.namsf

File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

Profile Time: 10 7 29 22 0
Profile Location: 30.41 -88.40 (335,110)

SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1017	0	1016	0	31.8	61.0	4.4	-4.4	1017	226	0	0.20	0	563	1284

	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1014	31.2	5.5	-5.2	3.5	16.0	0.67	303.1	4.1	-6.4
1010	30.8	5.4	-5.2	4.4	16.1	0.73	303.1	4.0	-6.3
1005	30.4	5.4	-5.4	5.3	15.9	0.78	303.1	4.0	-6.5
1000	29.7	5.9	-5.2	6.2	15.9	0.84	302.9	4.4	-6.5
995	29.3	5.8	-5.5	7.6	15.8	0.93	302.9	4.4	-6.7
990	28.8	5.5	-5.5	7.0	15.8	0.95	302.8	4.1	-6.6
984	28.5	6.0	-5.4	7.0	15.8	0.93	303.0	4.6	-6.7
979	27.9	5.7	-5.6	8.8	15.8	0.90	302.9	4.2	-6.8
974	27.3	6.1	-5.5	8.8	15.8	0.90	302.8	4.6	-6.8
968	27.0	5.9	-5.6	8.3	15.8	0.90	303.0	4.4	-6.8
962	26.3	5.9	-5.5	11.7	15.7	0.90	302.8	4.4	-6.8
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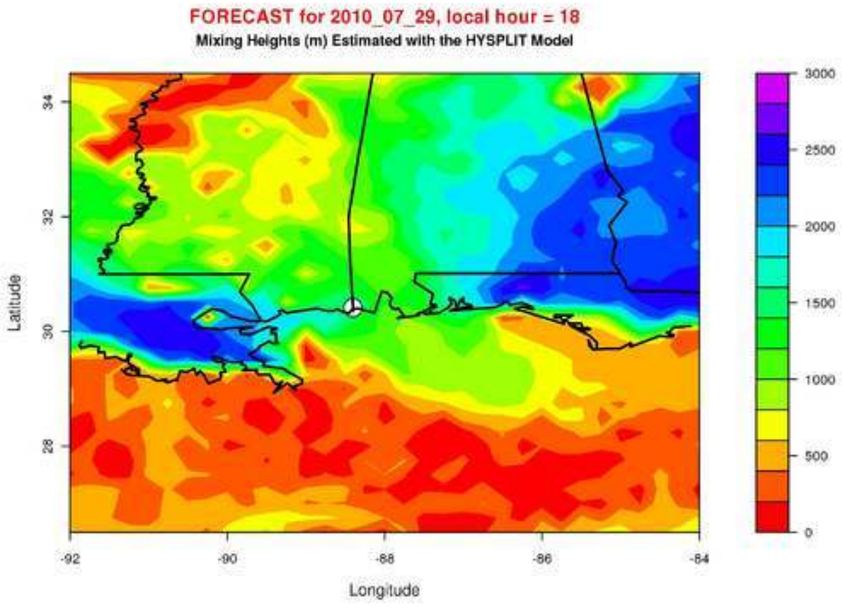
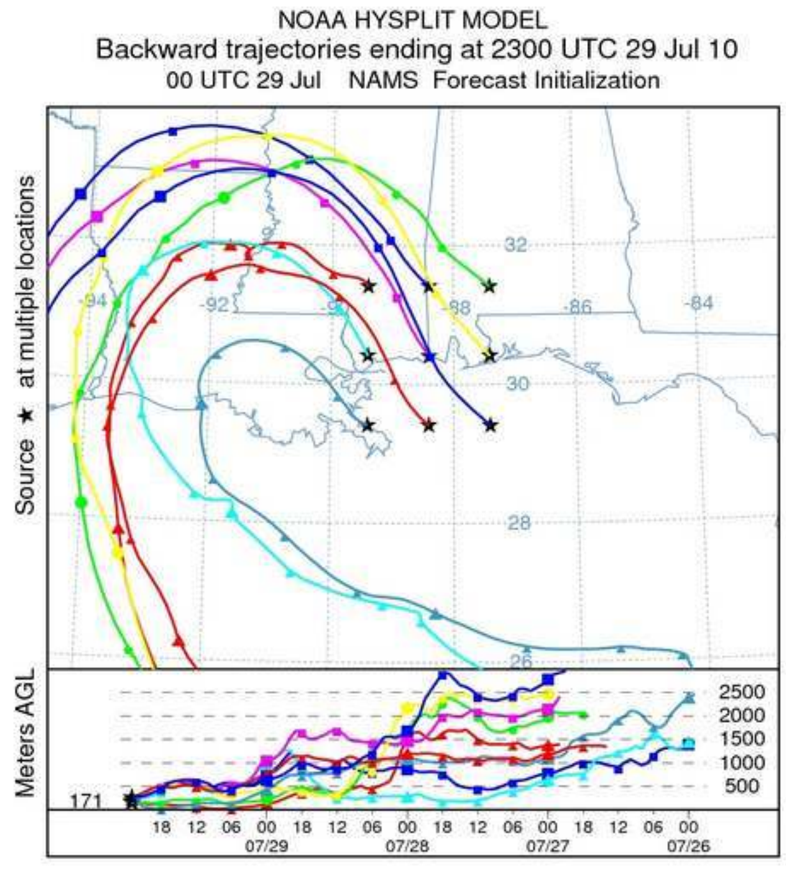
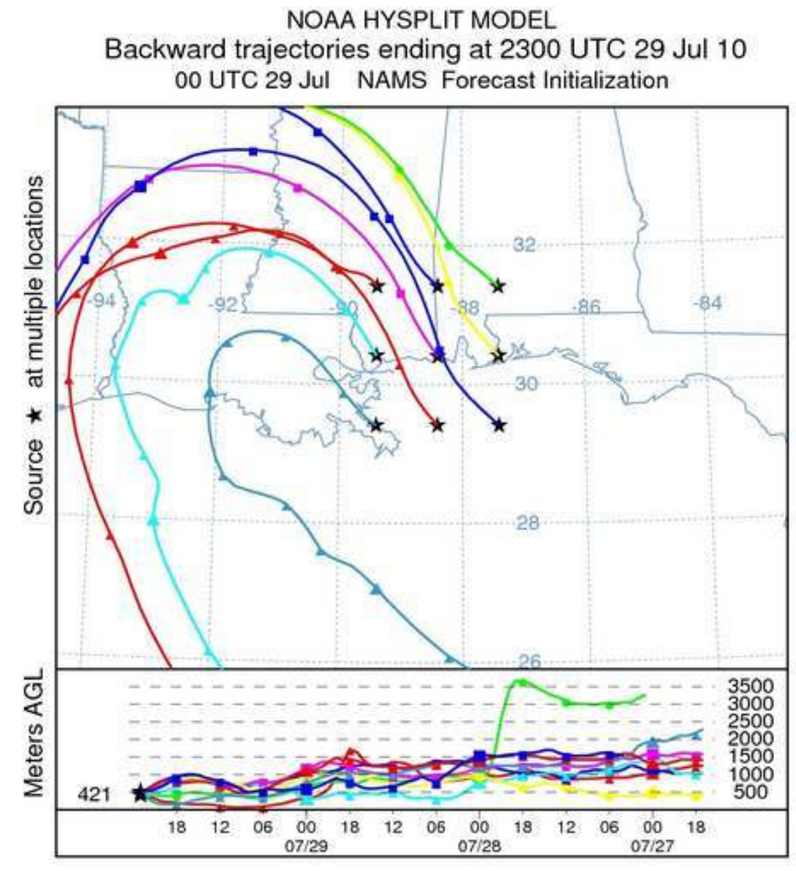
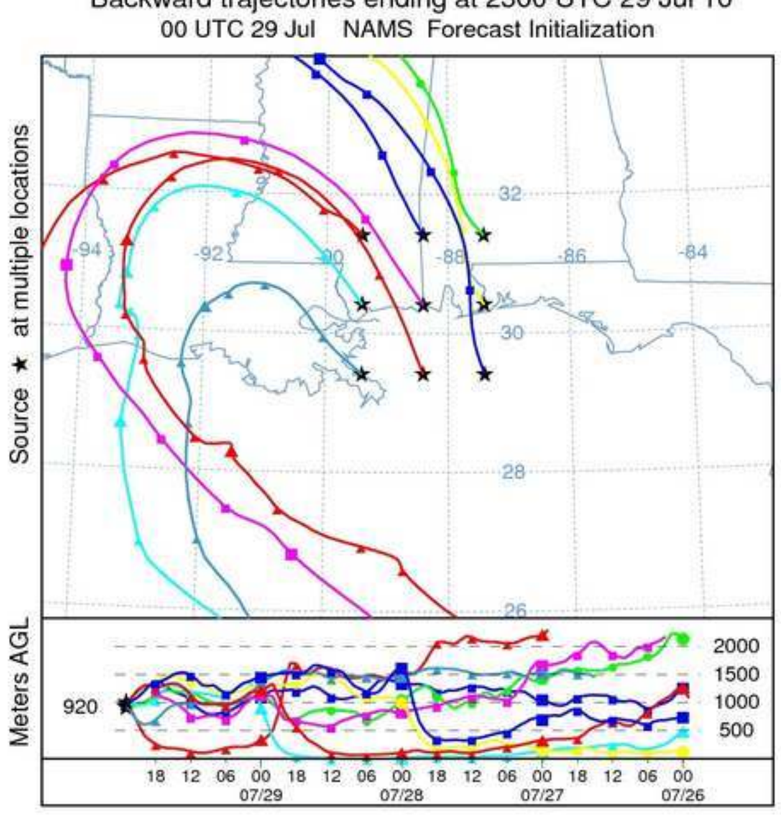
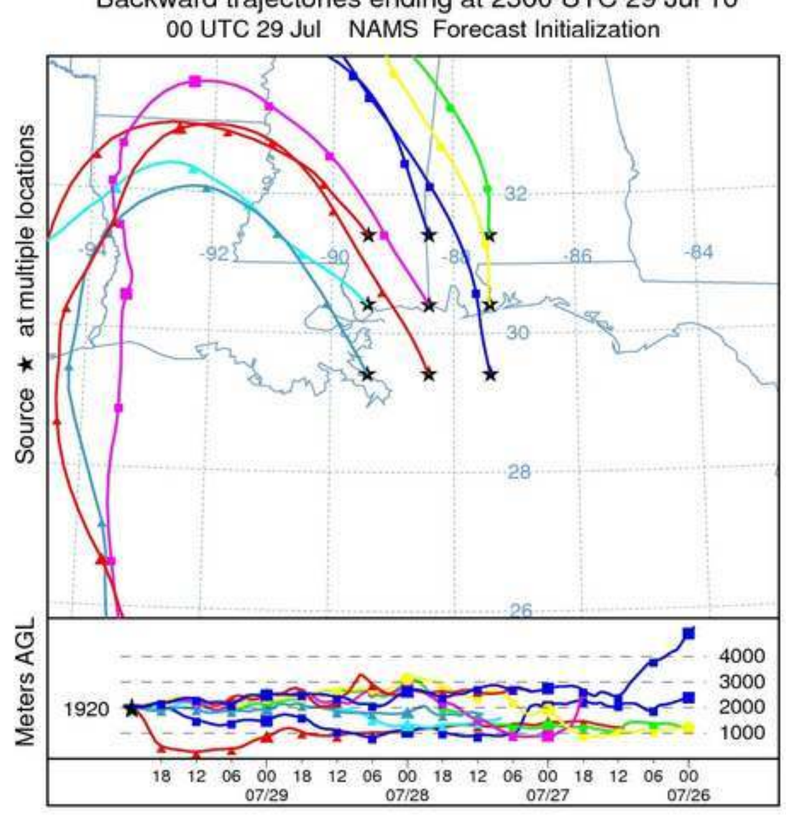
949	25.3	6.1	-5.8	9.1	15.7	0.90	302.9	4.5	-7.1
943	24.5	6.3	-5.8	10.5	15.6	0.90	302.8	4.7	-7.2
936	23.9	6.8	-6.2	13.5	15.0	0.90	302.8	5.2	-7.6
928	23.2	6.8	-6.3	12.3	14.9	0.90	302.7	5.1	-7.7
919	22.6	7.1	-7.6	14.4	13.8	0.78	303.0	5.0	-9.1
898	21.3	7.6	-8.9	13.7	12.4	0.20	303.7	5.3	-10.5
871	19.6	6.8	-8.1	10.2	11.7	0.20	304.6	4.6	-9.5
840	17.6	5.7	-7.3	7.0	10.9	0.20	305.6	3.8	-8.4
806	15.3	5.7	-6.5	3.5	10.0	0.20	306.9	4.0	-7.7
769	12.7	5.9	-5.7	3.5	9.1	0.20	308.1	4.4	-6.9
730	10.0	4.5	-5.2	0	8.4	0.20	309.8	3.2	-6.1
689	7.4	3.6	-5.3	2.4	7.4	0.20	312.1	2.2	-6.0
645	4.6	4.1	-5.7	3.5	5.8	0.20	314.9	2.6	-6.5
599	1.3	3.4	-5.3	3.5	4.5	0.20	317.8	2.0	-5.9
551	-2.0	2.5	-6.4	3.5	4.4	0.20	321.6	0.9	-6.8
502	-7.1	1.1	-3.8	0	3.5	0.20	324.0	0.2	-4.0
453	-12.2	0.94	-2.6	0	1.4	0.20	327.3	0.3	-2.7
403	-17.6	-2.4	-4.2	0	0.72	0.20	331.4	-3.3	-3.5
353	-23.9	-2.5	0	3.5	0.24	0.21	335.6	-2.5	0.6
305	-32.7	-2.9	0.72	4.5	0.21	0.20	337.8	-2.7	1.4
260	-41.7	-5.9	6.0	0	0.20	0.20	340.3	-4.2	7.2
221	-50.6	-5.1	7.8	0	1E-1	0.20	342.8	-3.1	8.8
183	-61.7	-7.5	2.8	0	3E-2	0.20	343.6	-6.7	4.5
138	-72.1	-10.1	0.43	-1.0	1E-2	0.20	354.1	-9.7	2.8
88	-65.1	-10.6	-3.7	0.39	1E-2	0.20	416.7	-11.2	-1.1
63	-59.3	-12.2	-3.2	-0.33	1E-2	0.20	471.4	-12.6	-0.2
38	-46.6	-27.3	-7.3	-1E-1	3E-2	0.20	577.9	-28.3	-0.6

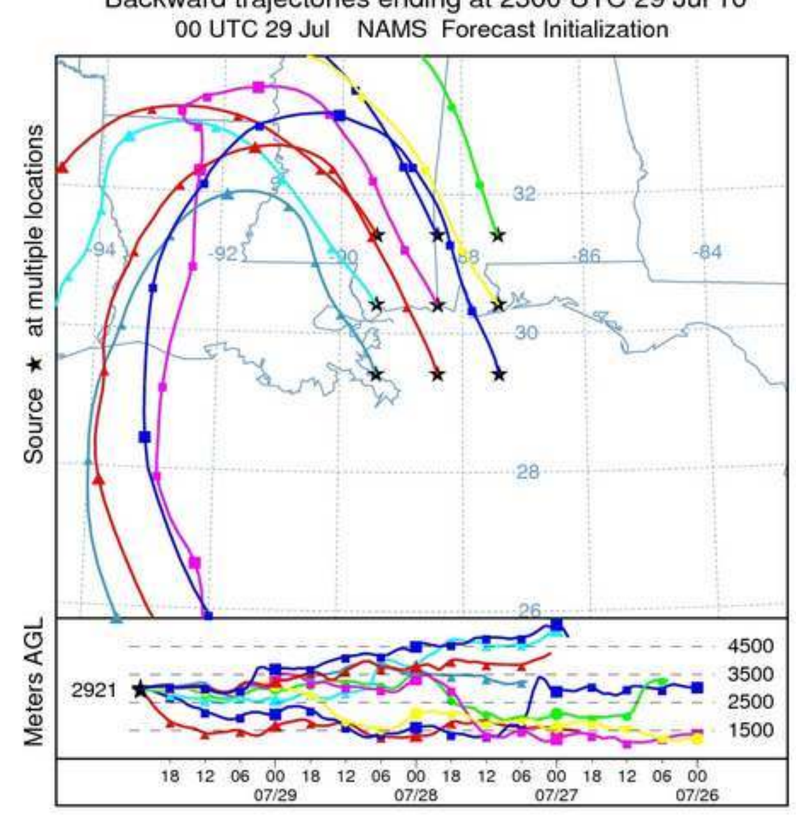

FORECAST for 2010_07_29, local hour = 18
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 2300 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
171
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26

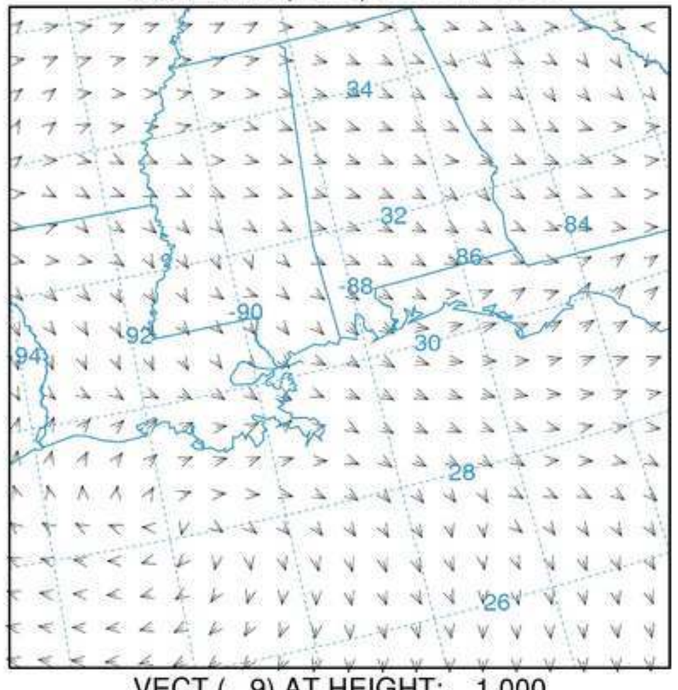

NOAA HYSPLIT MODEL
Backward trajectories ending at 2300 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
3500
3000
2500
2000
1500
1000
500
07/29
07/28
07/27


NOAA HYSPLIT MODEL
Backward trajectories ending at 2300 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
920
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2300 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1920
4000
3000
2000
1000
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 2300 UTC 29 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
4500
3500
2500
1500
07/29
07/28
07/27
07/26

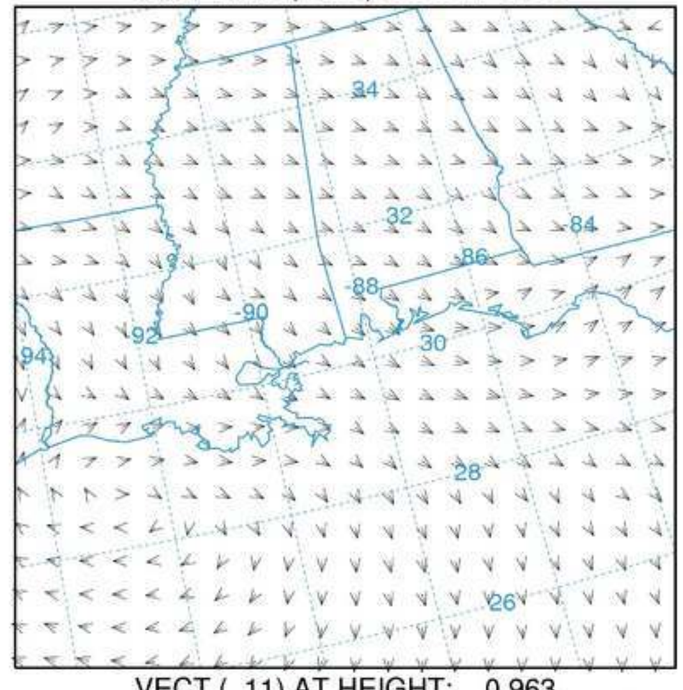
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/23



VECT (9) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

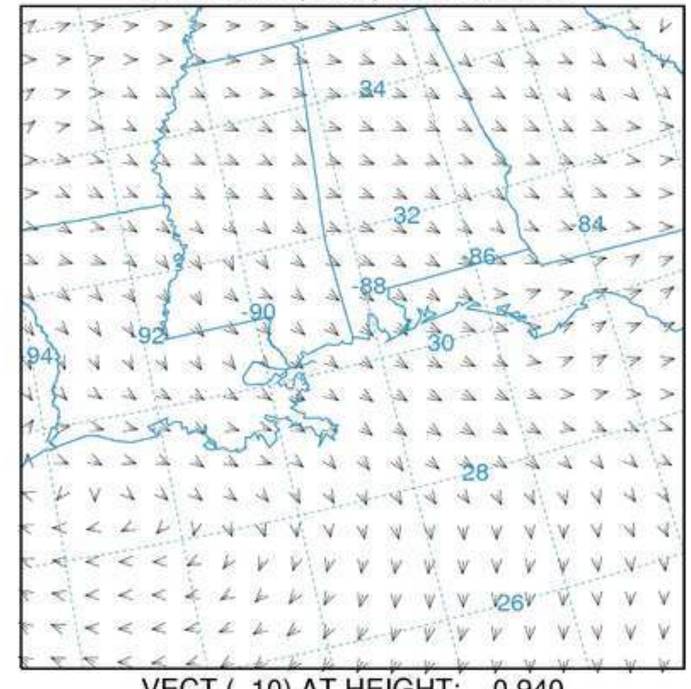
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/23



VECT (11) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

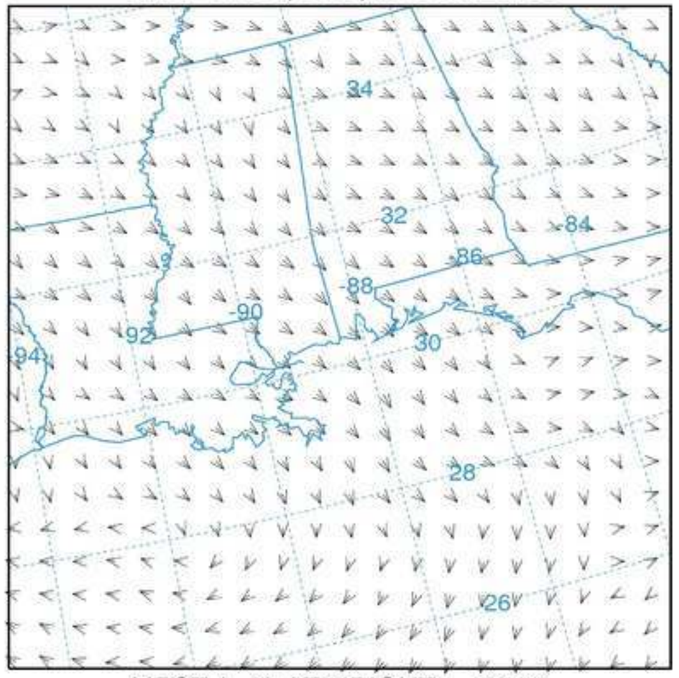
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/23



VECT (10) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

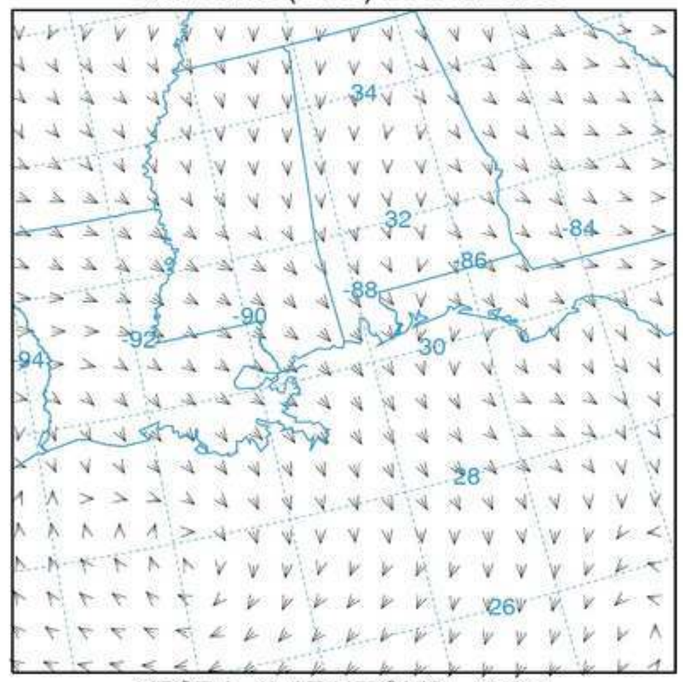
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/23



VECT (9) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

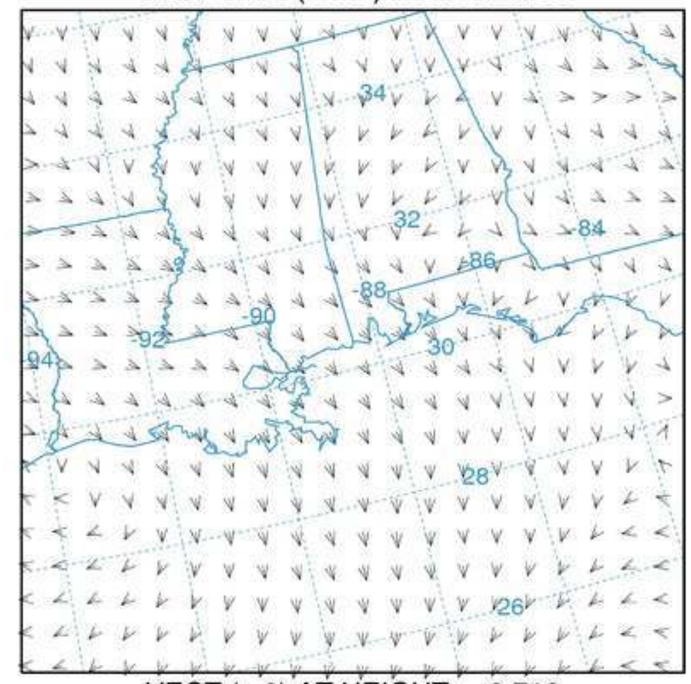
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/23



VECT (9) AT HEIGHT: 0.826

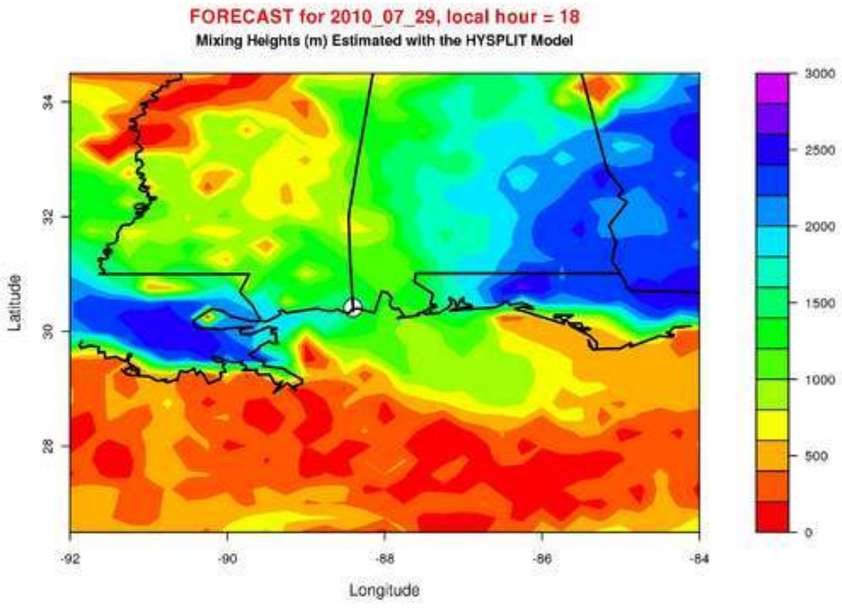
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

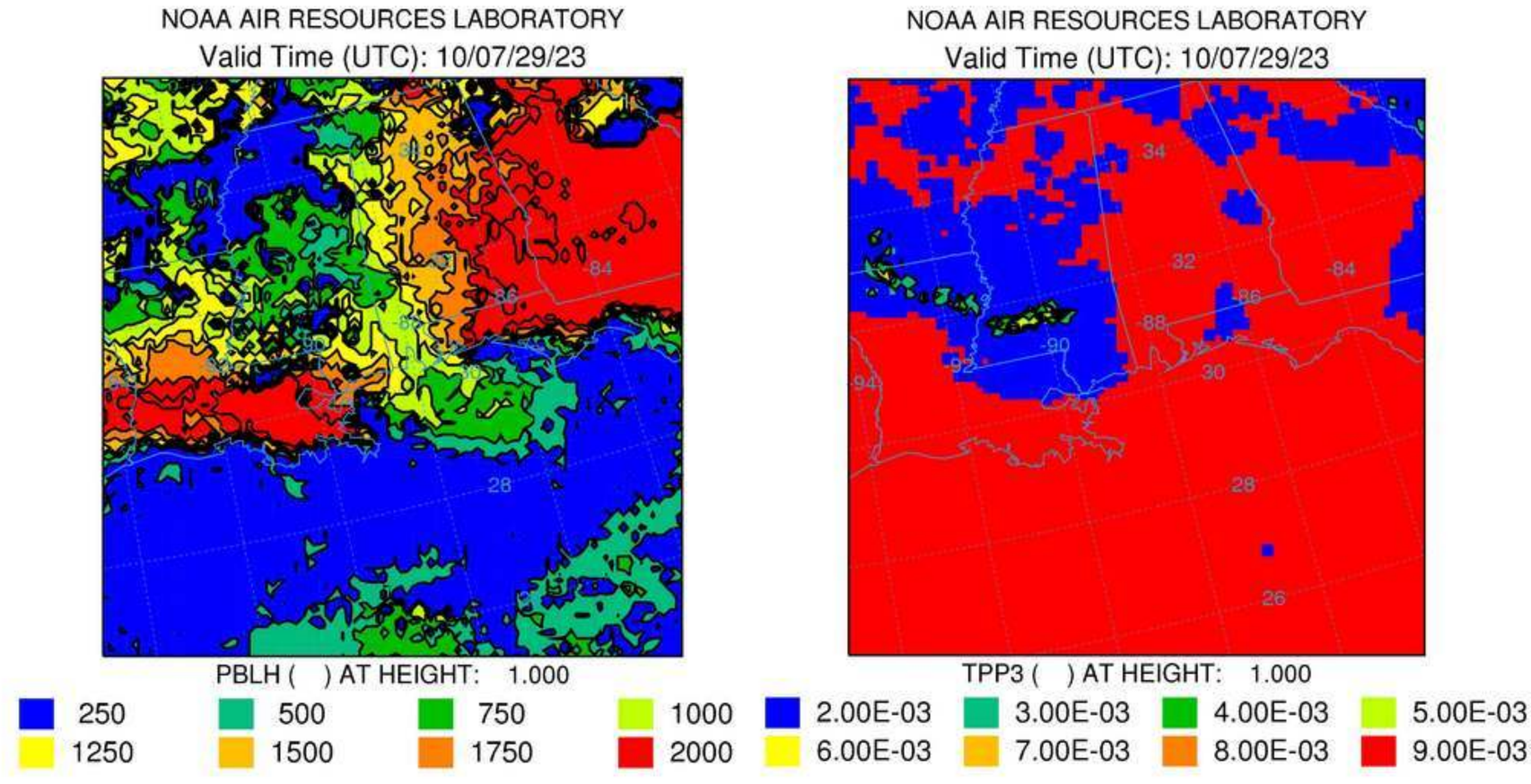
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/23

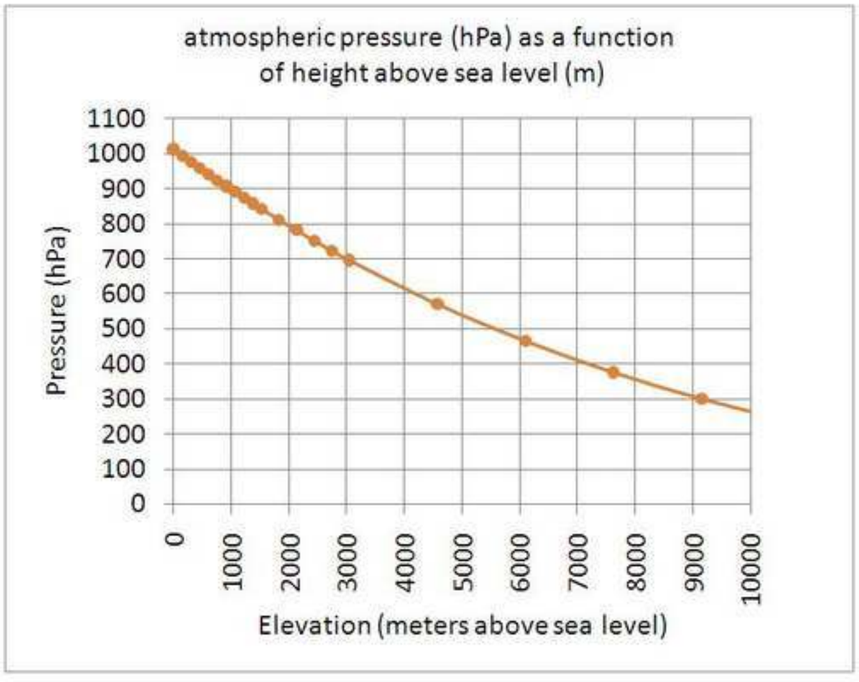


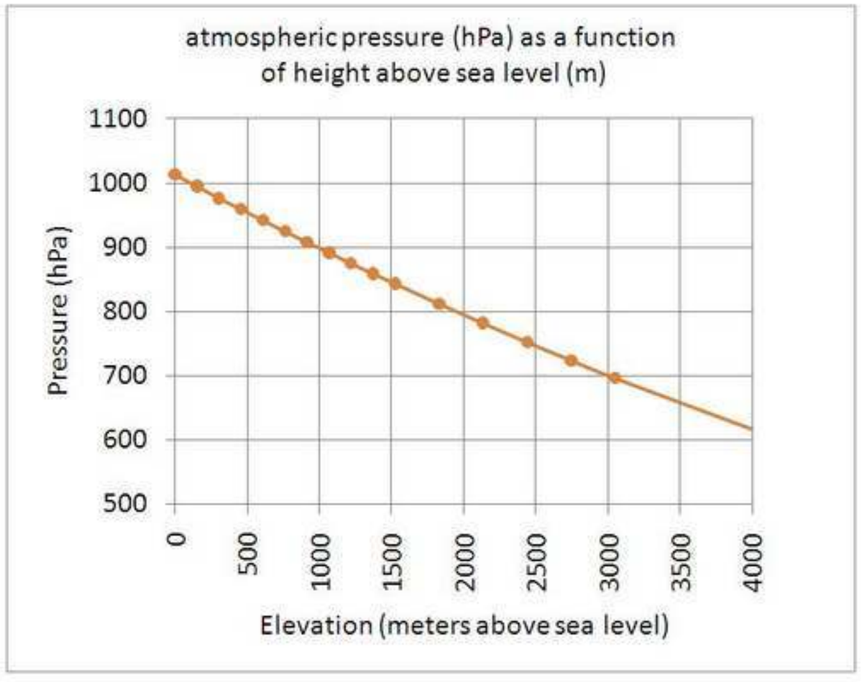
VECT (9) AT HEIGHT: 0.718

Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 18
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/23
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/29/23
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

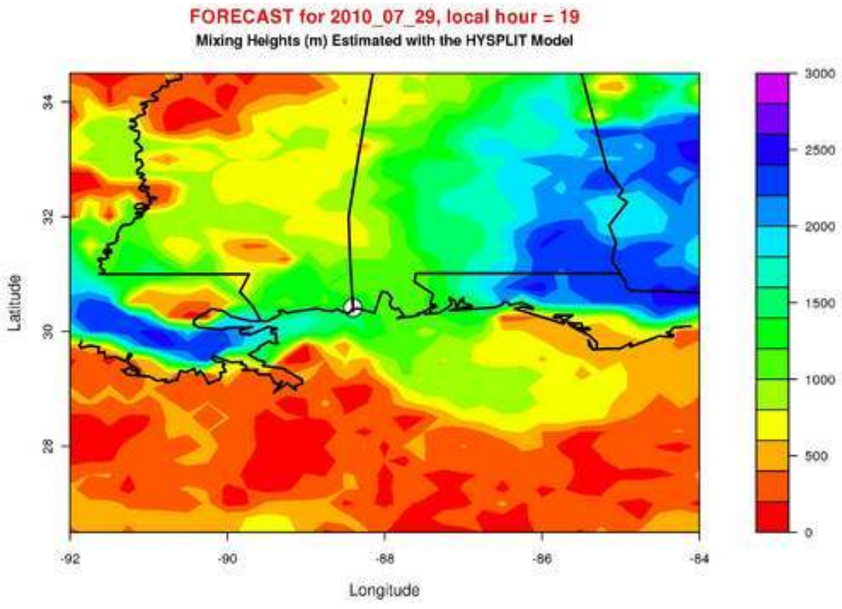
Meteorological Profile: hysplit.t00z.namsf

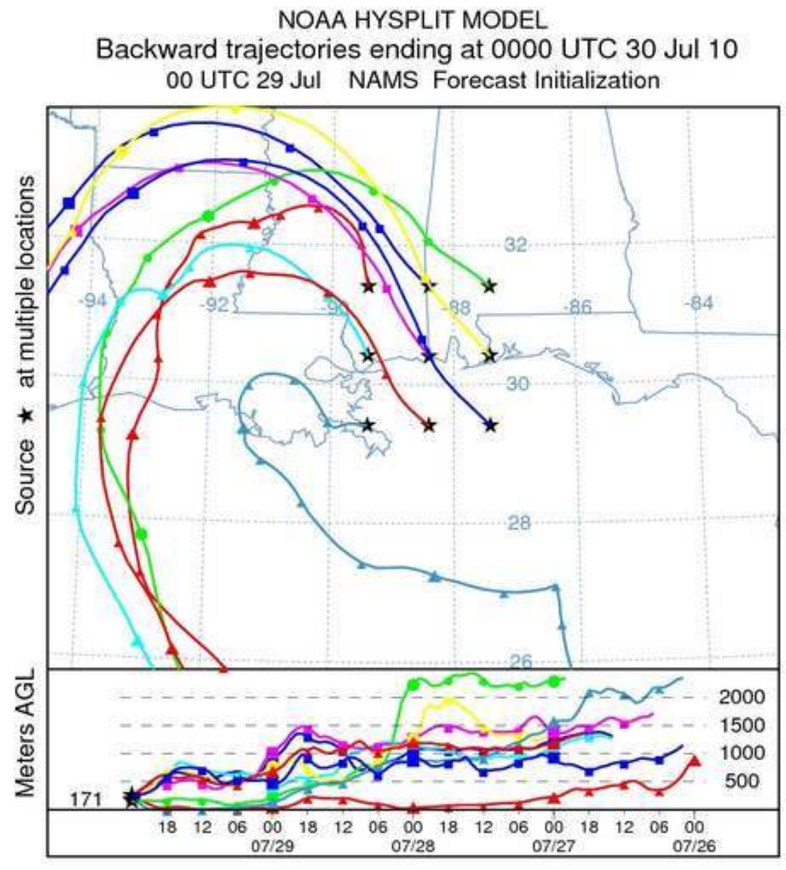
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

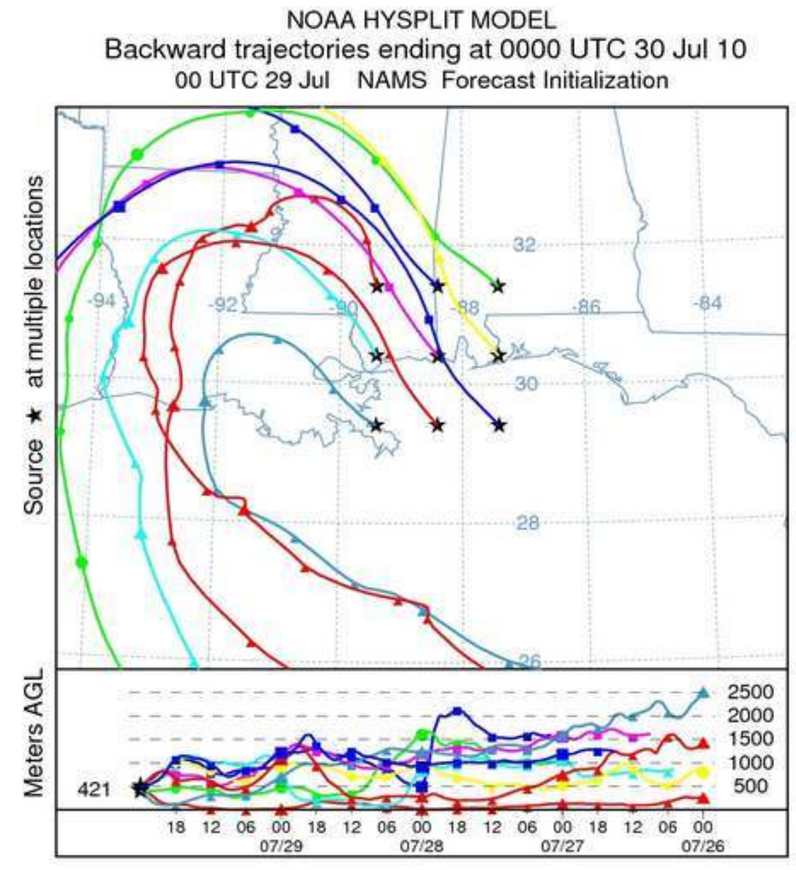
Profile Time: 10 7 29 23 0
Profile Location: 30.41 -88.40 (335,110)

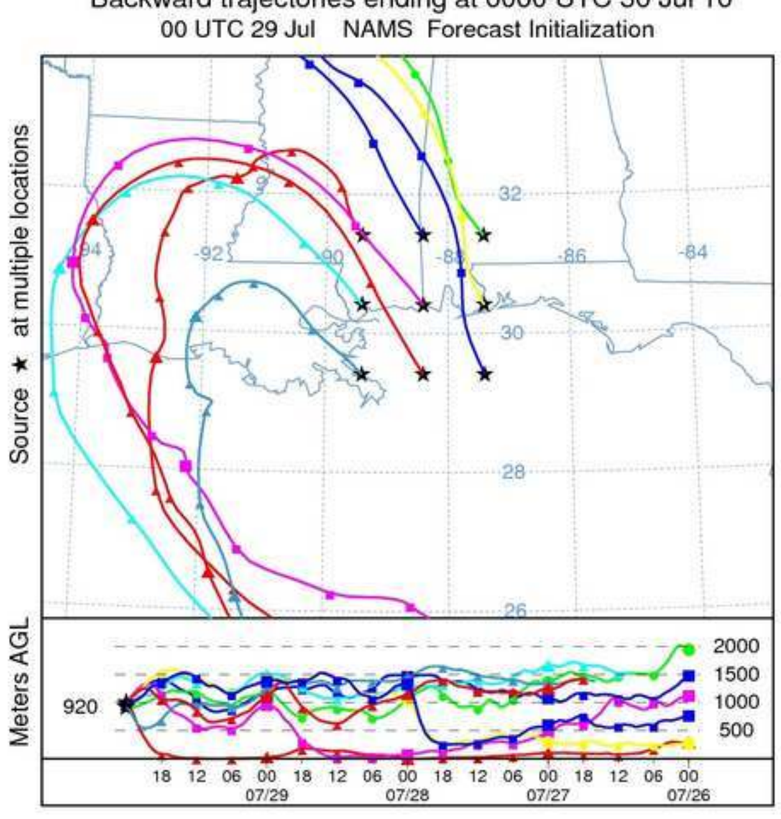
SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1015	0	1016	0	31.8	61.0	5.3	-4.4	1015	229	0	0.21	0	347	1461

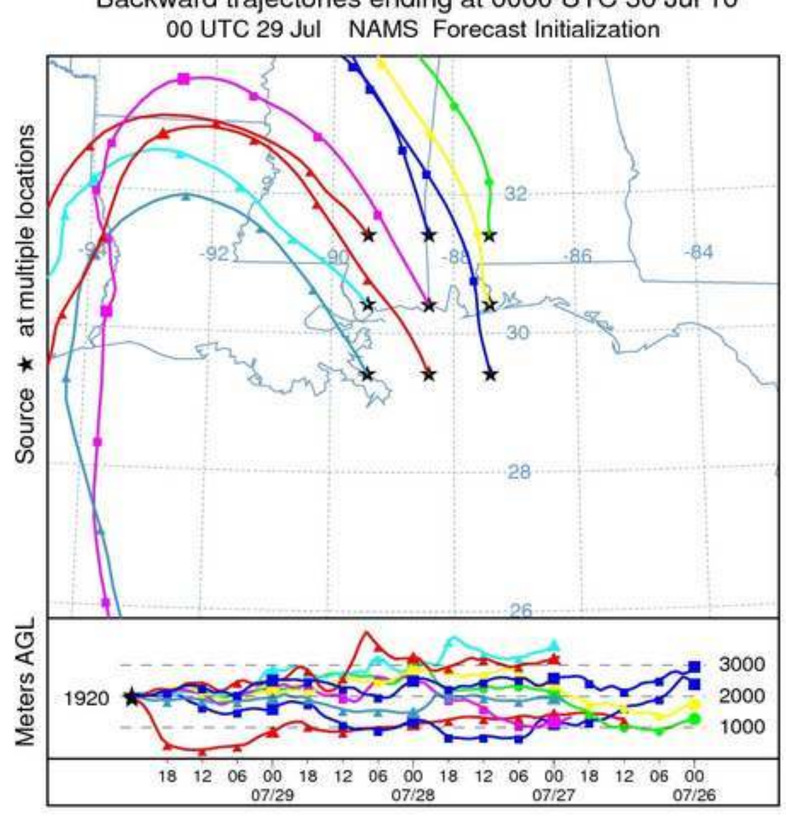
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1013	31.2	6.1	-5.2	5.3	16.0	0.53	303.2	4.6	-6.5
1008	30.8	6.5	-5.3	4.7	15.9	0.59	303.3	5.0	-6.7
1003	30.4	6.5	-5.3	7.0	15.9	0.65	303.2	5.0	-6.7
998	29.9	6.4	-5.4	7.0	15.8	0.71	303.2	5.0	-6.8
993	29.5	6.4	-5.4	6.3	15.7	0.65	303.2	4.9	-6.8
988	29.1	6.7	-5.3	7.0	15.8	0.65	303.2	5.2	-6.8
983	28.4	6.7	-5.5	8.5	15.7	0.70	303.1	5.2	-6.9
978	28.1	6.7	-5.3	8.8	15.7	0.70	303.2	5.3	-6.8
972	27.5	6.4	-5.5	8.8	15.6	0.70	303.1	4.9	-6.9
966	27.1	6.6	-5.5	8.3	15.6	0.70	303.2	5.1	-7.0
961	26.4	6.9	-5.4	8.8	15.6	0.70	303.1	5.4	-6.9
954	26.0	6.6	-5.4	8.8	15.6	0.70	303.2	5.1	-6.9
948	25.2	6.6	-5.4	11.7	15.6	0.70	303.0	5.2	-6.9
941	24.6	6.9	-5.7	10.5	15.6	0.70	303.0	5.3	-7.2
934	24.0	7.0	-5.4	12.4	15.6	0.70	303.0	5.5	-6.9
926	23.2	7.2	-5.5	13.5	15.6	0.57	302.9	5.7	-7.1
918	22.5	7.3	-5.6	14.1	14.8	0.45	303.0	5.8	-7.2
896	21.2	8.3	-8.0	10.5	12.5	0.20	303.7	6.1	-9.8
869	19.6	7.1	-7.8	6.8	11.7	0.20	304.7	5.0	-9.3
838	17.5	6.0	-7.0	7.0	10.8	0.20	305.7	4.2	-8.2
804	15.4	5.7	-6.0	0	9.9	0.20	307.0	4.1	-7.2
768	12.9	5.5	-5.3	7.0	8.8	0.20	308.4	4.1	-6.4
729	10.3	4.8	-5.1	4.2	8.0	0.20	310.2	3.5	-6.1
688	7.5	3.4	-5.6	0	7.2	0.20	312.4	1.9	-6.2
644	4.8	3.8	-5.8	0	5.6	0.20	315.2	2.3	-6.6
598	1.4	2.6	-5.2	0	4.4	0.20	318.1	1.3	-5.6
550	-1.7	1.3	-6.2	7.0	4.5	0.20	322.1	-0.3	-6.3
501	-7.2	0.65	-4.0	0	3.8	0.20	324.1	-0.3	-4.0
452	-12.2	0.95	-2.6	3.3	1.6	0.20	327.4	0.3	-2.7
403	-17.6	-3.0	-3.7	2.8	0.78	0.20	331.6	-3.8	-2.8
353	-23.7	-2.7	0	3.5	0.24	0.21	336.0	-2.6	0.7
304	-32.7	-3.5	0	5.3	0.22	0.20	337.9	-3.4	0.8
260	-41.7	-5.7	5.9	0	0.19	0.20	340.4	-4.1	7.1
220	-50.7	-4.4	6.6	0	1E-1	0.20	342.9	-2.7	7.5
183	-61.8	-7.6	3.4	0	3E-2	0.20	343.6	-6.5	5.1
138	-72.1	-10.3	0	-0.54	1E-2	0.20	354.3	-10.0	2.5
88	-64.4	-9.7	-3.9	0.73	1E-2	0.20	418.2	-10.4	-1.4
63	-59.1	-11.7	-4.6	-0.38	1E-2	0.20	472.1	-12.4	-1.7
38	-47.4	-27.4	-7.8	0.19	3E-2	0.20	576.1	-28.5	-1.0

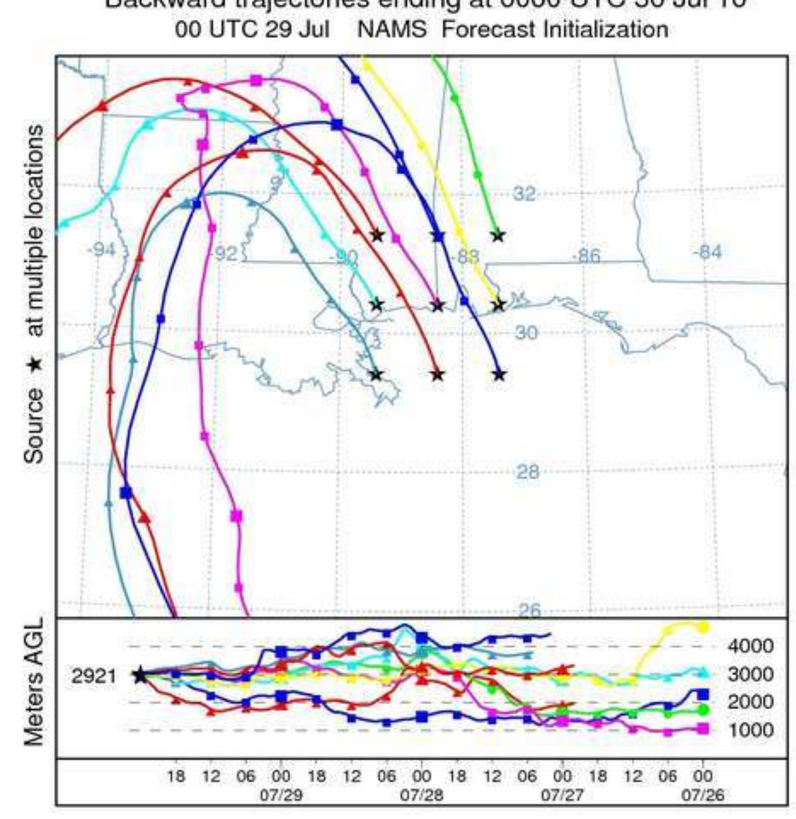

FORECAST for 2010_07_29, local hour = 19
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
171
2000
1500
1000
500
07/29
07/28
07/27
07/26

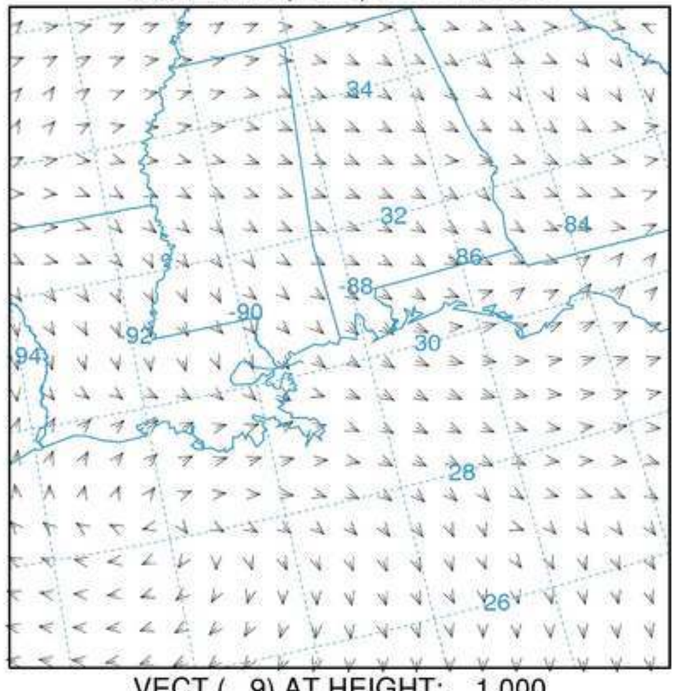

NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
2500
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
920
2000
1500
1000
500
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1920
3000
2000
1000
07/29
07/28
07/27
07/26


NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
4000
3000
2000
1000
07/29
07/28
07/27
07/26

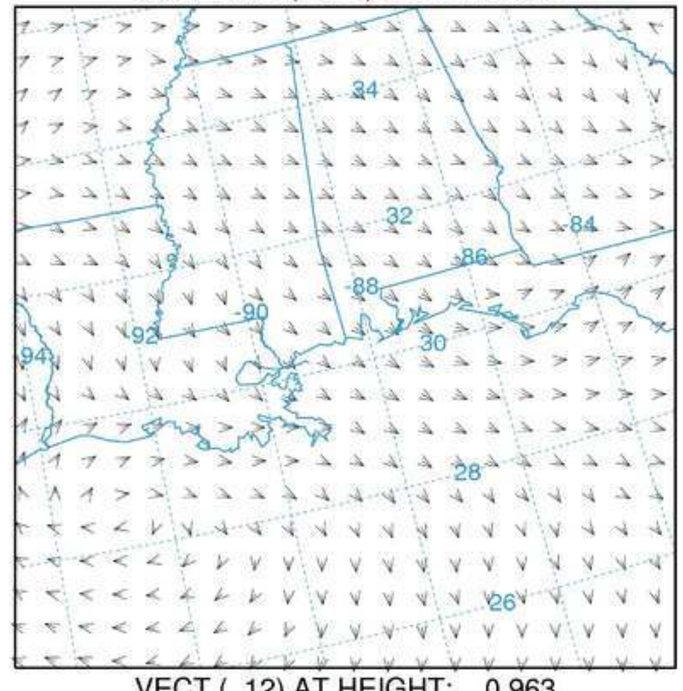
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/00



VECT (9) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

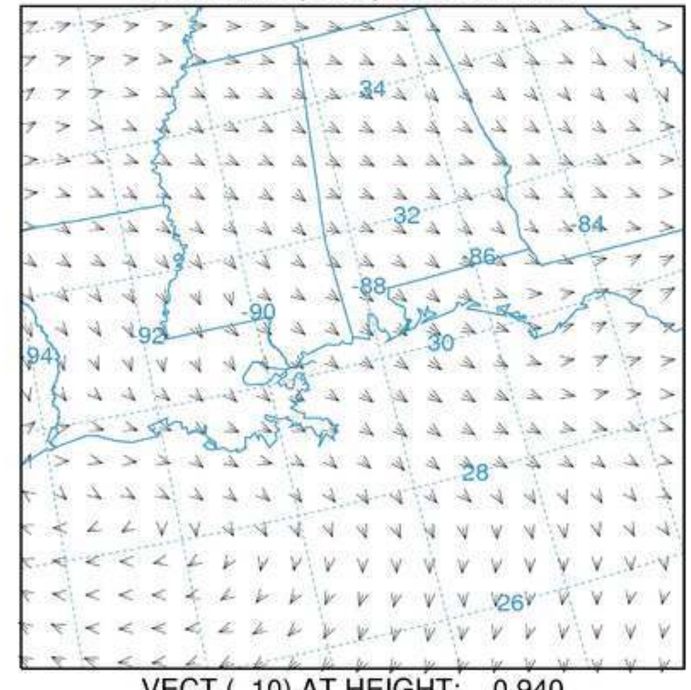
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/00



VECT (12) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

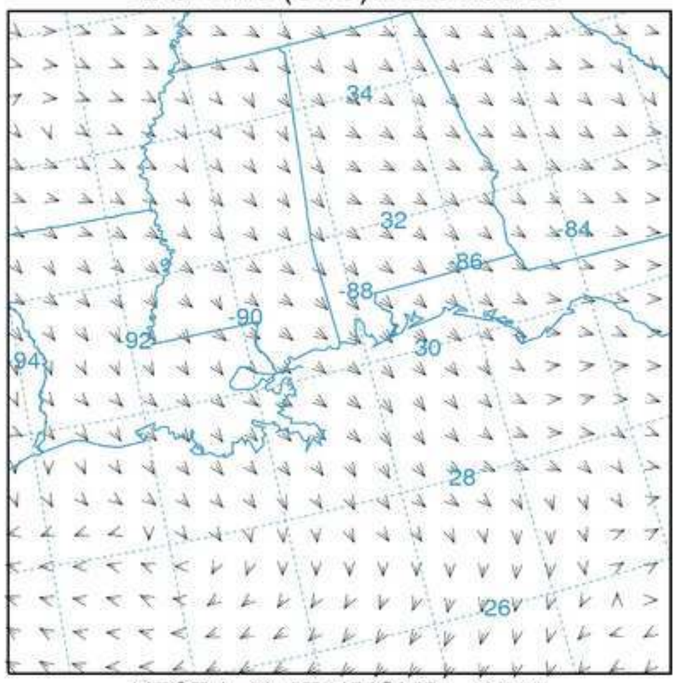
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/00



VECT (10) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

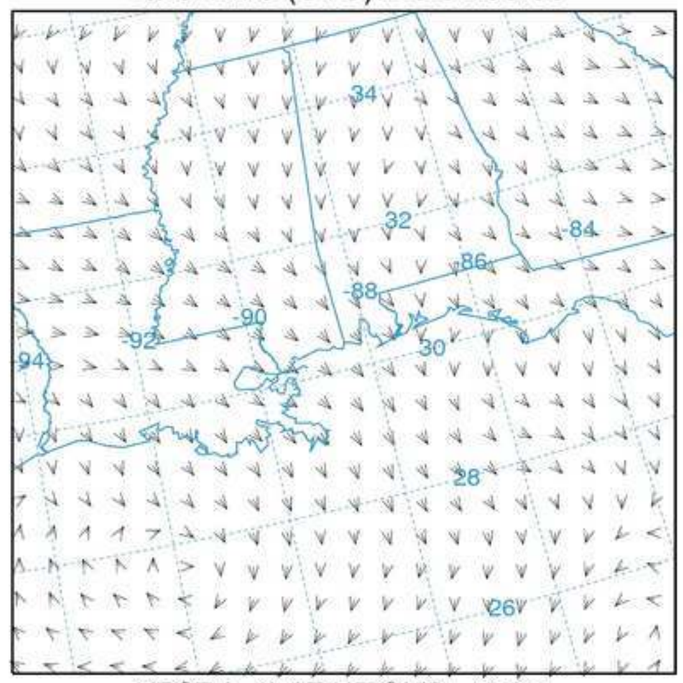
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/00



VECT (9) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

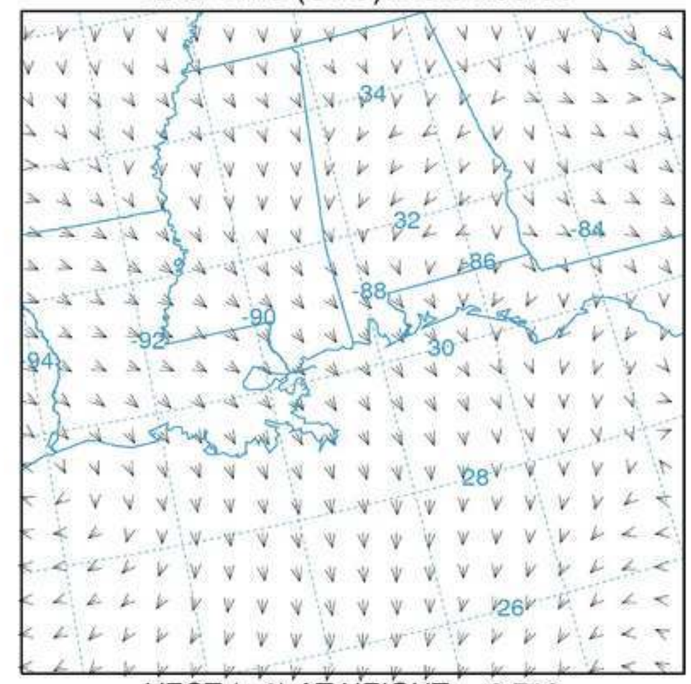
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/00



VECT (9) AT HEIGHT: 0.826

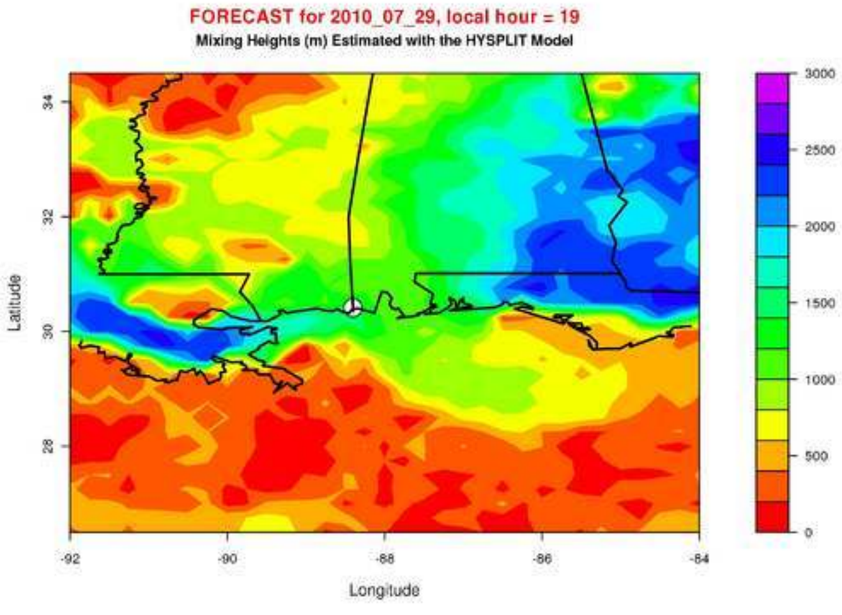
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

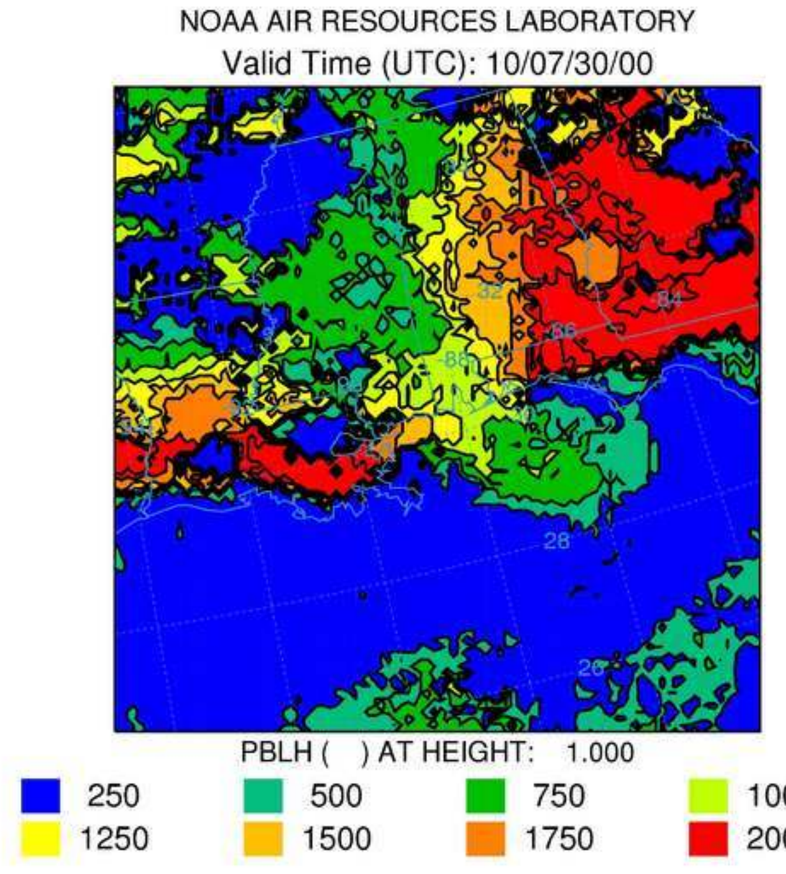
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/00

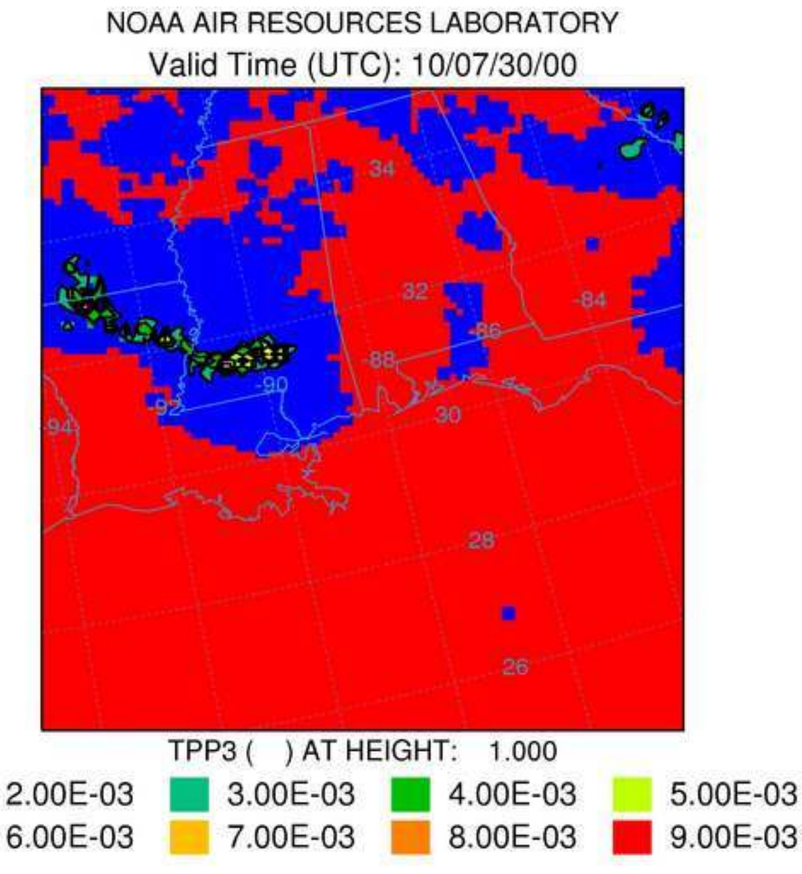


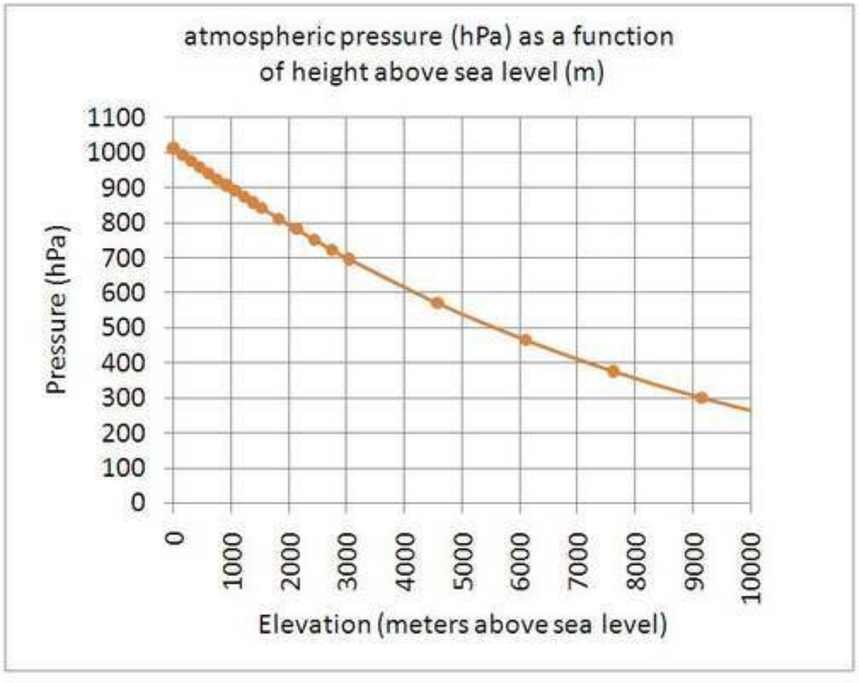
VECT (9) AT HEIGHT: 0.718

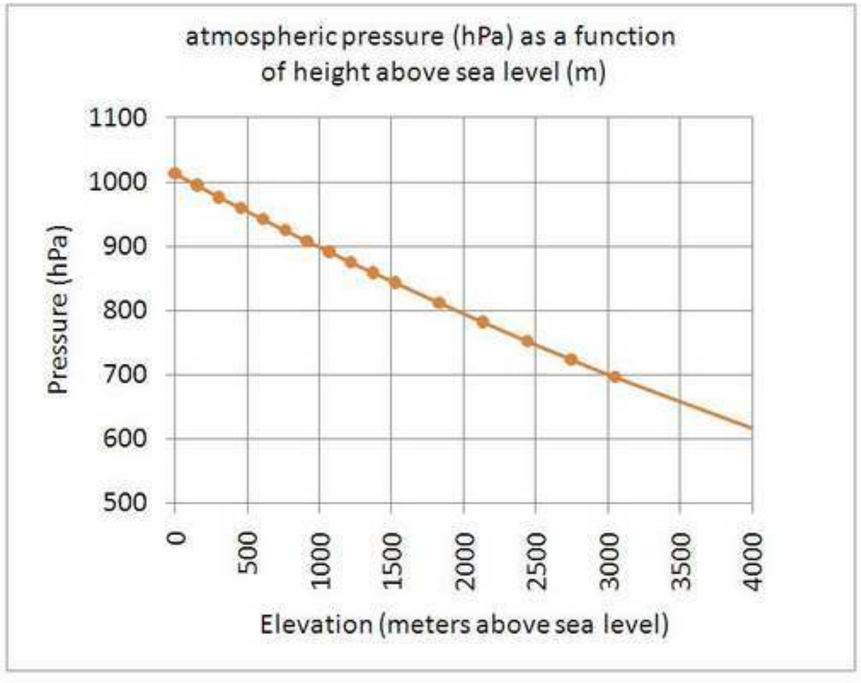
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 19
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/00
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/00
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
400
300
200
100
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)
1100
1000
900
800
700
600
500
0
500
1000
1500
2000
2500
3000
3500
4000

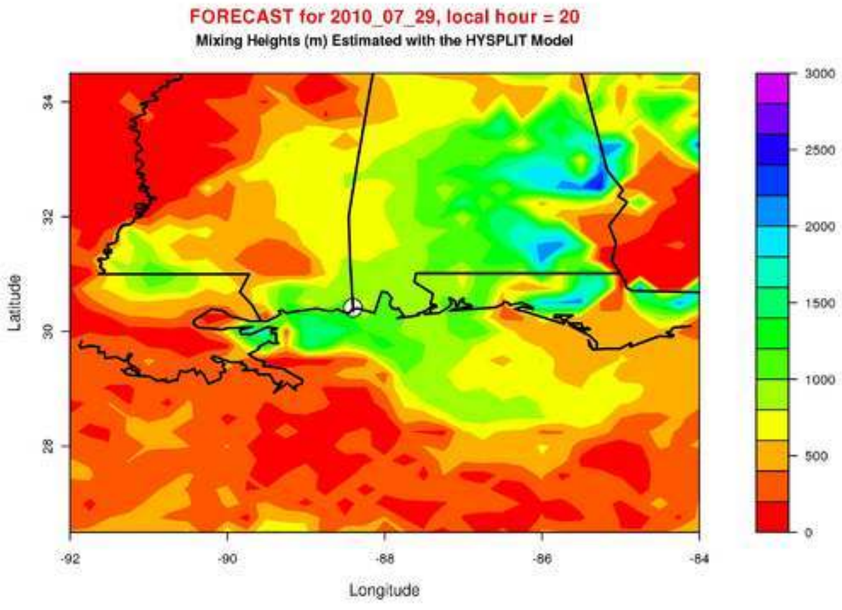
Meteorological Profile: hysplit.t00z.namsf

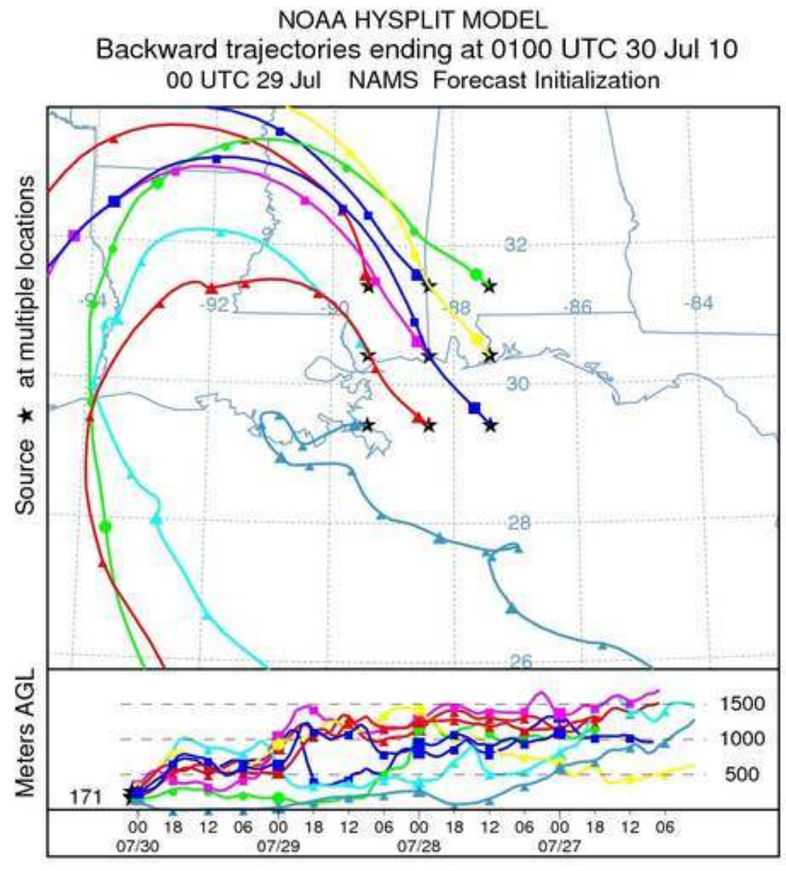
File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

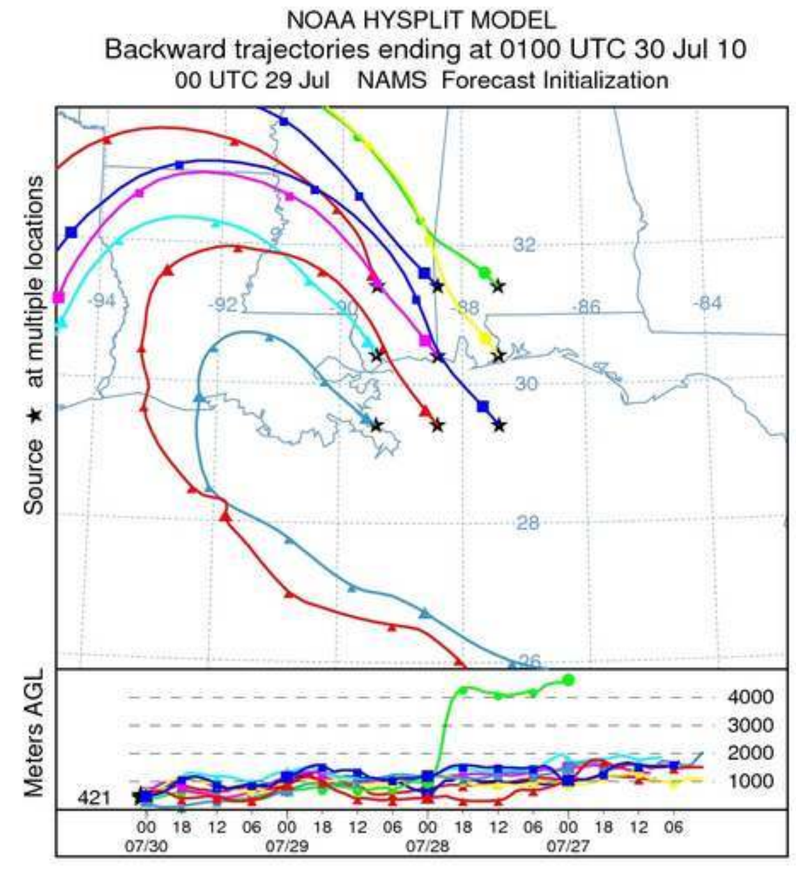
Profile Time: 10 7 30 0 0
Profile Location: 30.41 -88.40 (335,110)

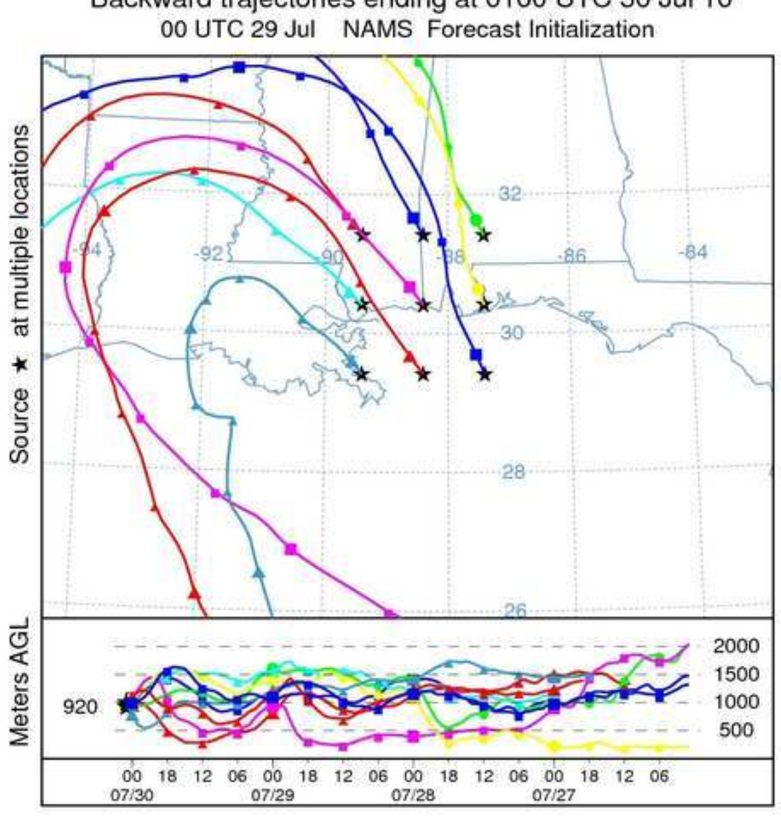
	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1016	0	1016	0	31.5	63.1	5.4	-4.2	1016	286	0	0.24	0	123	1267

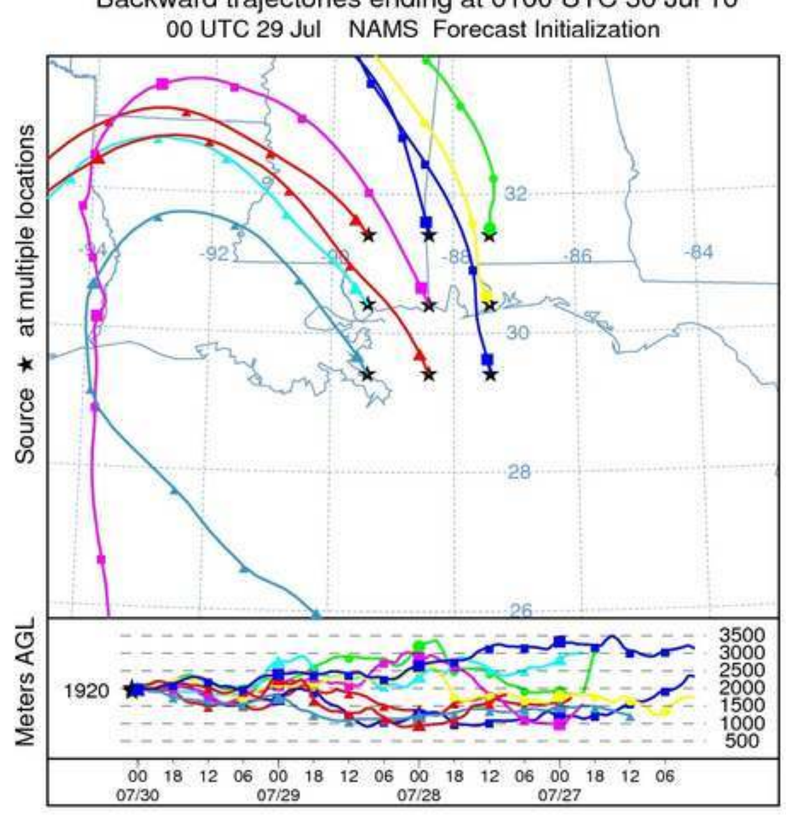
	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1013	30.9	6.5	-5.0	3.6	16.1	0.50	302.9	5.1	-6.4
1008	30.5	6.9	-5.2	5.3	16.0	0.58	302.9	5.5	-6.7
1003	30.0	6.8	-5.2	5.3	15.8	0.65	302.9	5.4	-6.7
998	29.6	6.8	-5.1	8.8	15.7	0.65	302.9	5.3	-6.6
993	29.2	6.8	-5.2	8.5	15.7	0.65	302.9	5.3	-6.7
988	28.7	7.1	-5.2	7.6	15.7	0.40	302.9	5.6	-6.8
983	28.3	7.1	-5.2	10.5	15.7	0.40	302.9	5.6	-6.8
978	27.8	7.0	-5.4	10.5	15.7	0.40	302.9	5.5	-6.9
972	27.2	7.4	-5.3	10.8	15.6	0.40	302.8	5.9	-6.9
967	26.9	7.1	-5.4	10.5	15.6	0.55	303.0	5.6	-6.9
961	26.2	7.5	-5.2	10.5	15.6	0.55	302.8	6.0	-6.8
955	25.6	7.3	-5.3	12.0	15.5	0.45	302.8	5.8	-6.9
948	25.0	7.2	-5.3	12.6	15.5	0.45	302.7	5.7	-6.9
941	24.3	7.5	-5.4	14.7	15.6	0.45	302.7	6.0	-7.1
934	23.7	7.2	-5.5	14.5	15.5	0.45	302.7	5.7	-7.0
927	23.1	7.2	-5.5	14.6	15.4	0.45	302.8	5.7	-7.0
918	22.5	7.4	-5.9	14.1	14.3	0.45	303.0	5.8	-7.5
896	21.3	8.3	-7.3	9.8	12.6	0.20	303.8	6.3	-9.1
869	19.6	6.7	-7.5	3.5	11.7	0.20	304.7	4.7	-8.9
839	17.6	5.8	-6.7	3.5	10.9	0.20	305.7	4.1	-7.9
805	15.5	5.4	-5.8	0	10.0	0.20	307.1	3.8	-6.9
768	13.0	5.1	-5.3	0	8.9	0.20	308.5	3.7	-6.4
729	10.5	4.6	-5.2	0	7.9	0.20	310.4	3.2	-6.2
688	7.7	3.6	-5.5	0	6.9	0.20	312.6	2.2	-6.2
644	4.9	3.0	-6.1	0	5.6	0.20	315.3	1.5	-6.7
598	1.5	1.7	-5.3	0	4.5	0.20	318.1	0.4	-5.6
550	-1.4	0	-5.9	3.4	4.7	0.20	322.4	-1.4	-5.7
501	-7.0	0.47	-3.9	3.5	3.9	0.20	324.2	-0.5	-3.9
452	-12.0	0.80	-2.1	5.6	1.8	0.20	327.7	0.3	-2.3
403	-17.3	-3.3	-3.6	5.4	0.78	0.20	331.8	-4.0	-2.7
353	-23.6	-2.5	0	2.0	0.24	0.19	336.2	-2.4	0.6
304	-32.7	-3.7	-1.0	5.3	0.23	0.20	337.9	-3.8	-0.1
260	-41.5	-4.6	4.9	4.6	0.18	0.20	340.7	-3.3	5.9
220	-50.4	-5.2	4.9	4.6	1E-1	0.20	343.3	-3.9	6.0
183	-61.5	-6.8	2.8	5.3	2E-2	0.20	344.1	-6.0	4.4
138	-72.4	-10.1	1.9	-0.27	1E-2	0.20	353.7	-9.4	4.3
88	-65.1	-9.2	-5.2	0	1E-2	0.20	416.7	-10.2	-2.8
63	-58.5	-12.4	-4.8	0.21	1E-2	0.20	473.5	-13.2	-1.7
38	-47.5	-26.8	-8.7	0.17	3E-2	0.20	575.9	-28.1	-2.0

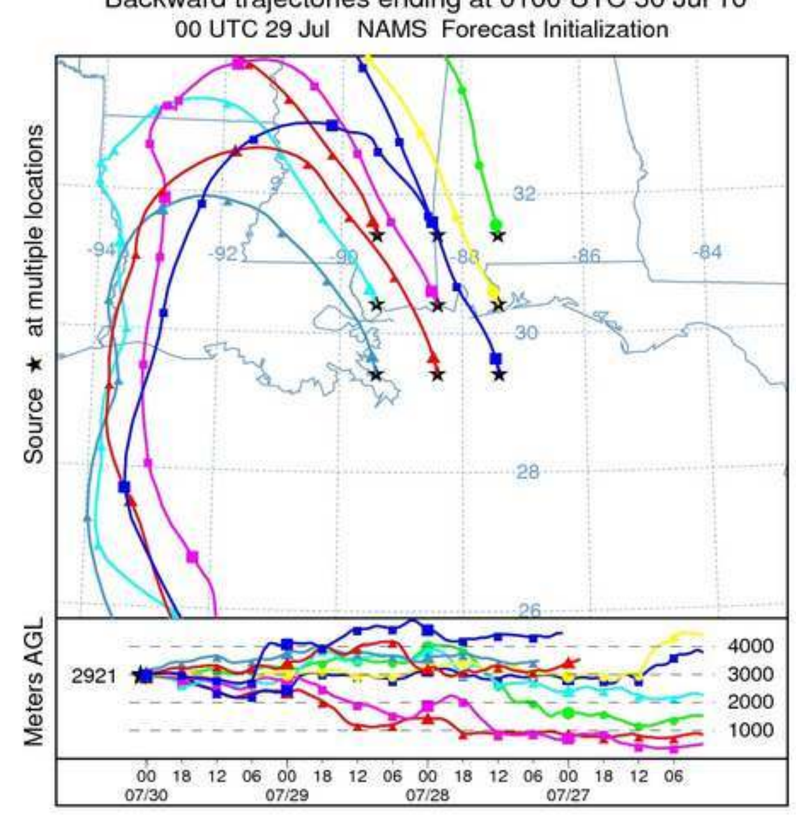

FORECAST for 2010_07_29, local hour = 20
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
3000
2500
2000
1500
1000
500
0


NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
171
1500
1000
500
07/30
07/29
07/28
07/27

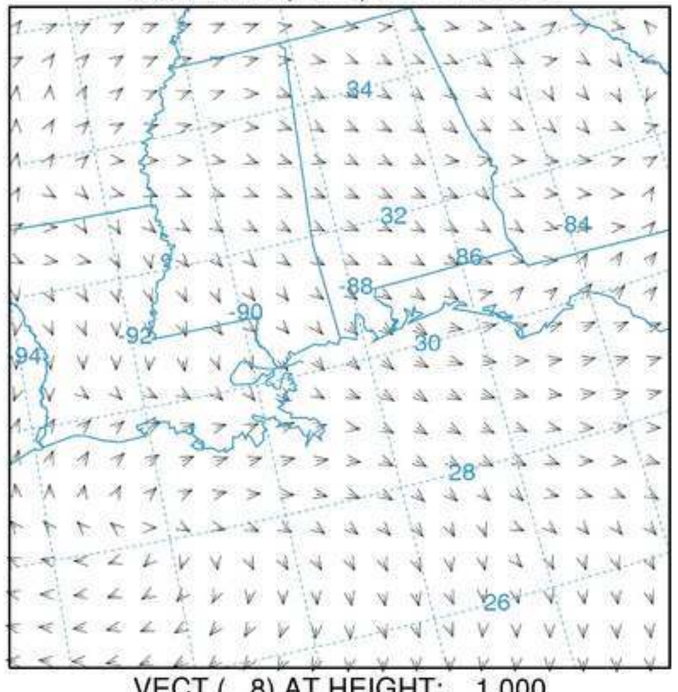

NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
421
4000
3000
2000
1000
07/30
07/29
07/28
07/27


NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
920
2000
1500
1000
500
07/30
07/29
07/28
07/27


NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
1920
3500
3000
2500
2000
1500
1000
500
07/30
07/29
07/28
07/27


NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 30 Jul 10
00 UTC 29 Jul NAMS Forecast Initialization
Source ★ at multiple locations
Meters AGL
2921
4000
3000
2000
1000
07/30
07/29
07/28
07/27

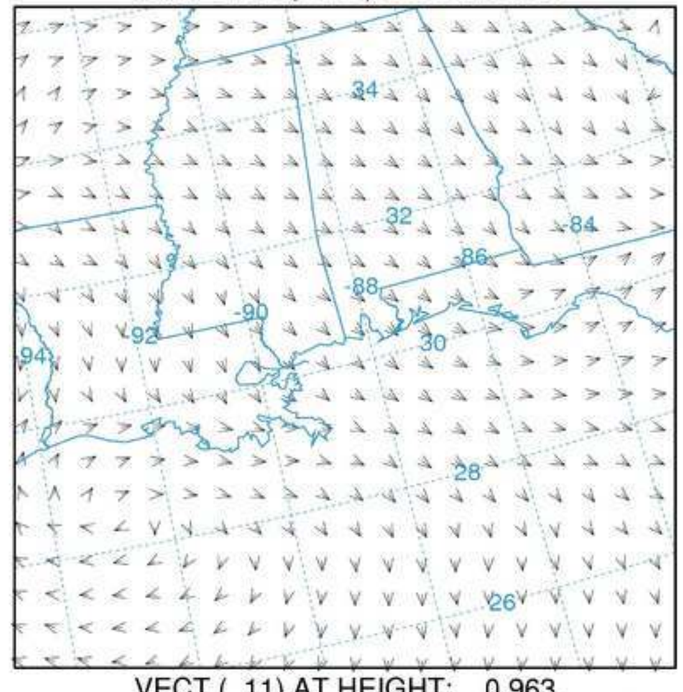
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/01



VECT (8) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1, corresponding to the surface (~10 m)

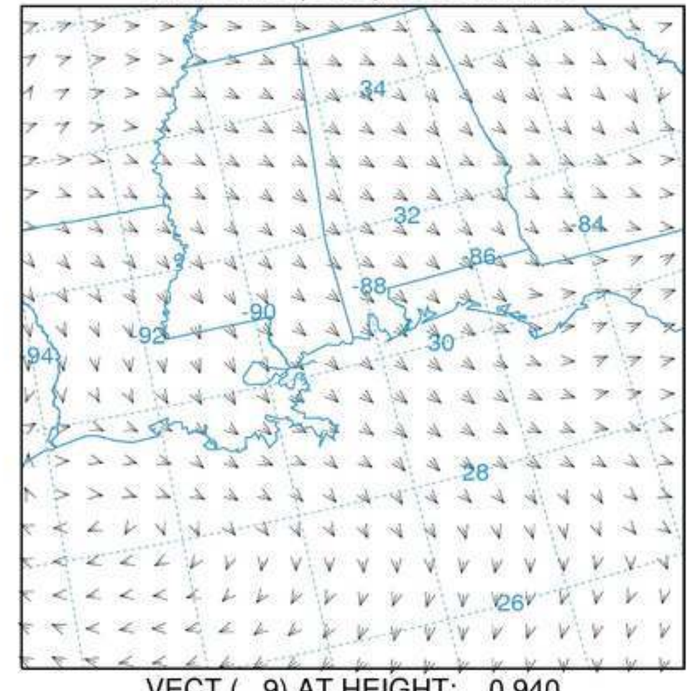
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/01



VECT (11) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9, corresponding to a height of ~250 meters

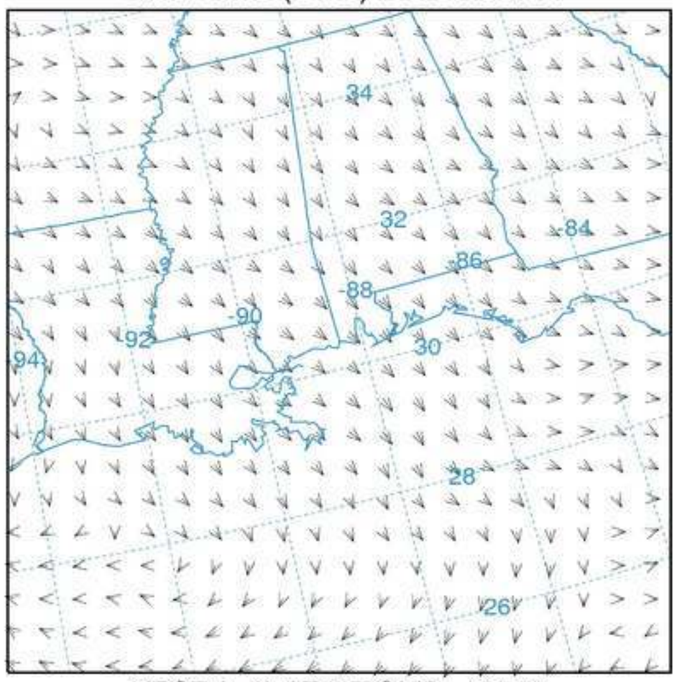
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/01



VECT (9) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13, corresponding to a height of ~500 meters

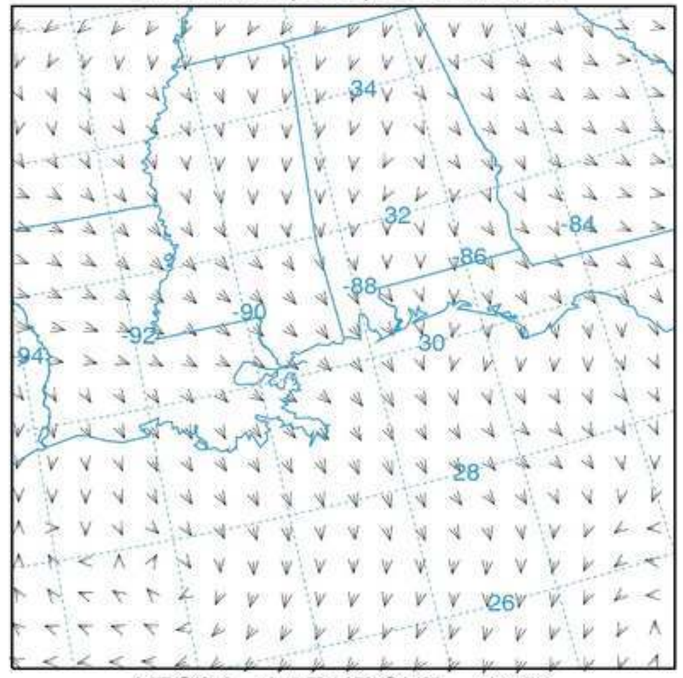
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/01



VECT (9) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18, corresponding to a height of ~1000 meters

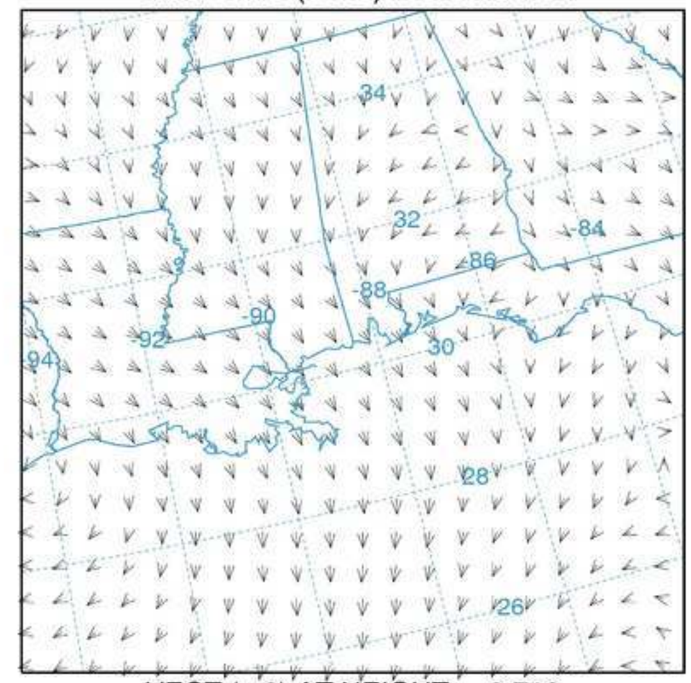
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/01



VECT (9) AT HEIGHT: 0.826

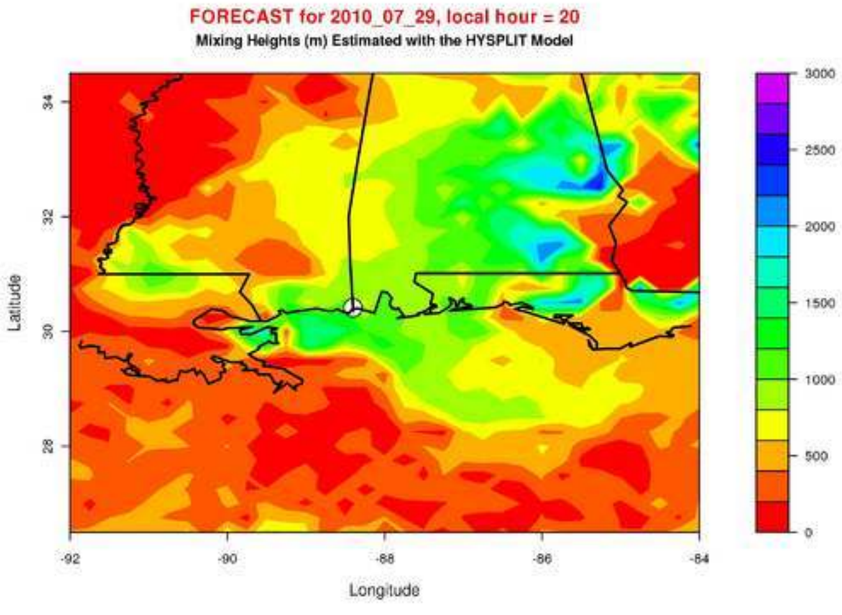
Wind direction data for NAMS vertical level 21, corresponding to a height of ~2000 meters

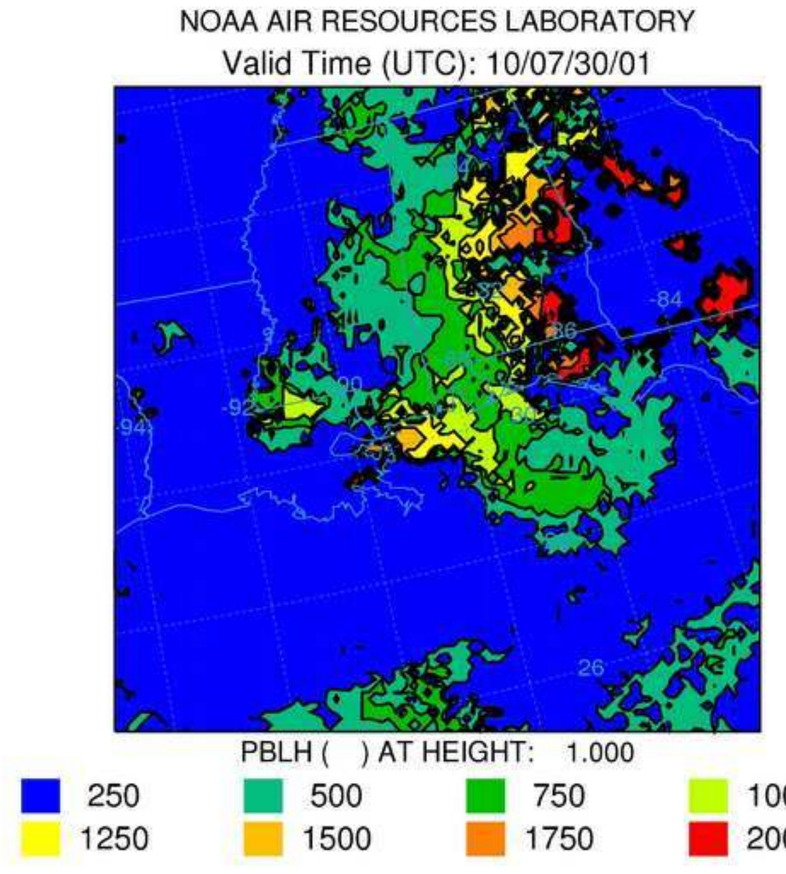
NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/01

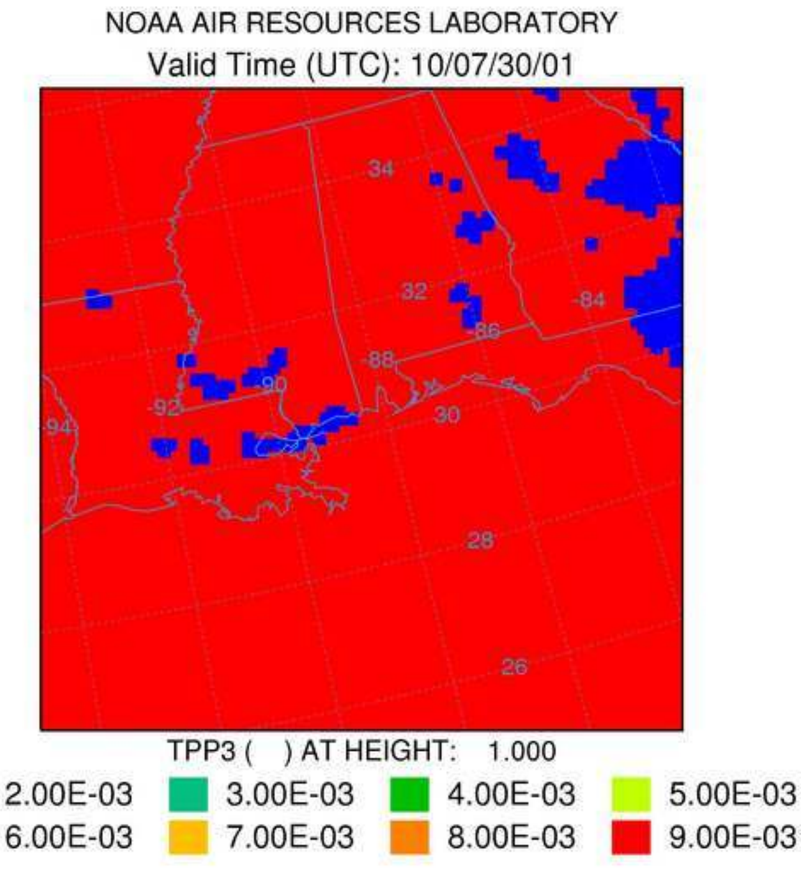


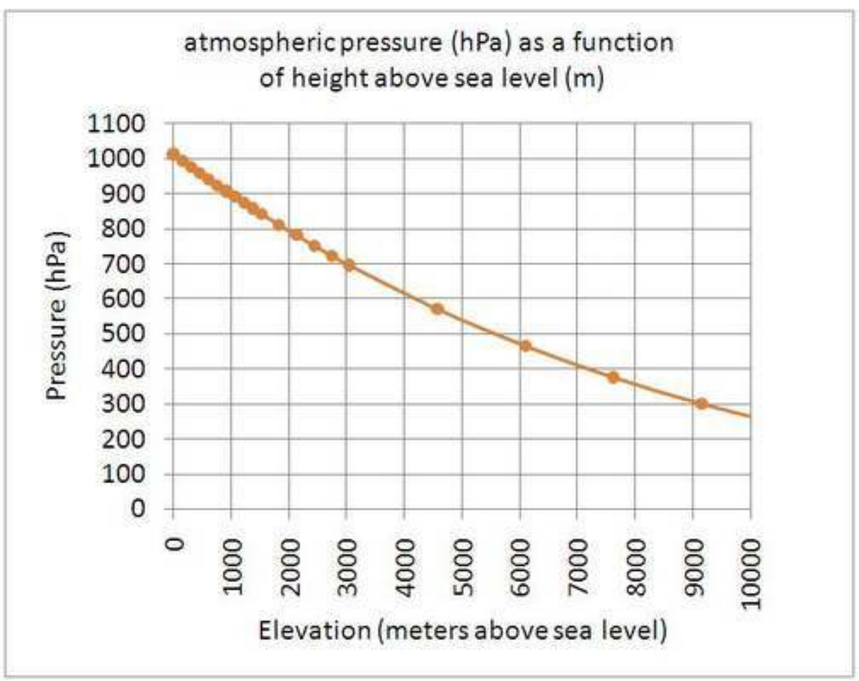
VECT (8) AT HEIGHT: 0.718

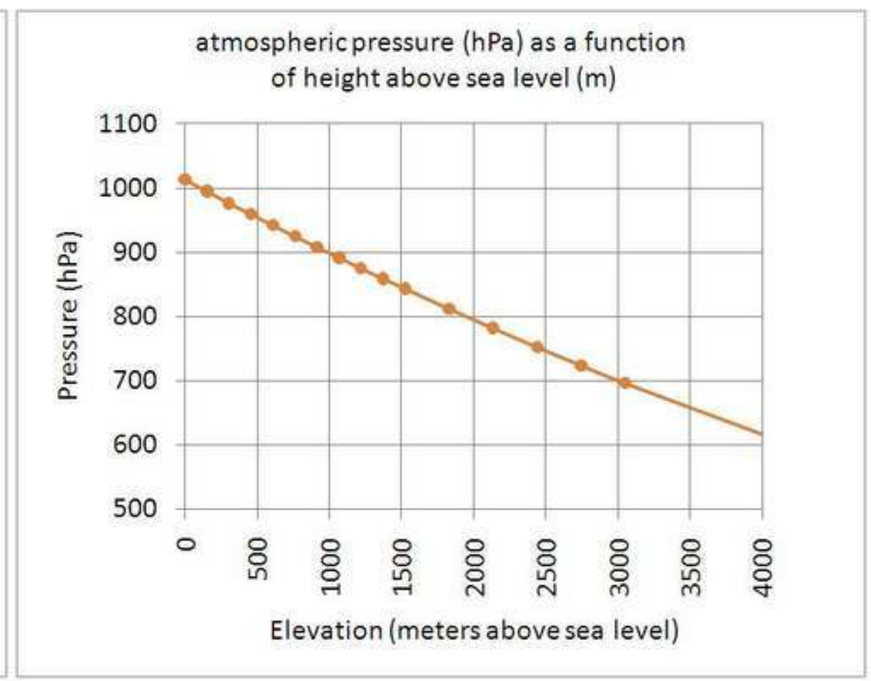
Wind direction data for NAMS vertical level 24, corresponding to a height of ~3000 meters


FORECAST for 2010_07_29, local hour = 20
Mixing Heights (m) Estimated with the HYSPLIT Model
Latitude
Longitude
34
32
30
28
-92
-90
-88
-86
-84
3000
2500
2000
1500
1000
500
0


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/01
PBLH ( ) AT HEIGHT: 1.000
250
500
750
1000
1250
1500
1750
2000


NOAA AIR RESOURCES LABORATORY
Valid Time (UTC): 10/07/30/01
TPP3 ( ) AT HEIGHT: 1.000
2.00E-03
3.00E-03
4.00E-03
5.00E-03
6.00E-03
7.00E-03
8.00E-03
9.00E-03


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)


atmospheric pressure (hPa) as a function of height above sea level (m)
Pressure (hPa)
Elevation (meters above sea level)

Meteorological Profile: hysplit.t00z.namsf

File start time : 10 7 29 0 0
File ending time: 10 7 31 0 0

Profile Time: 10 7 30 1 0
Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1015	0	1016	0	30.9	66.2	4.7	-4.3	1015	245	5.4	0.22	0	0	821

	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	UWND W->E	VWND S->N
1012	30.3	5.9	-5.3	5.3	16.5	0.38	302.4	4.5	-6.6
1007	29.9	6.1	-5.6	7.0	16.2	0.31	302.4	4.6	-6.9
1003	29.4	6.5	-5.6	7.0	15.9	0.25	302.4	5.0	-7.0
998	29.0	6.5	-5.7	8.8	15.9	0.27	302.3	4.9	-7.1
993	28.6	6.4	-5.7	10.5	15.7	0.27	302.4	4.9	-7.1
988	28.1	6.9	-5.9	9.8	15.6	0.27	302.4	5.3	-7.4
982	27.7	7.0	-5.9	11.8	15.6	0.15	302.4	5.3	-7.4
977	27.2	6.9	-6.0	12.3	15.5	0.15	302.4	5.3	-7.5
972	26.9	7.3	-5.8	10.5	15.5	0.15	302.6	5.6	-7.4
966	26.3	7.2	-6.0	12.8	15.6	0.15	302.5	5.5	-7.5
960	25.8	7.3	-5.9	14.1	15.4	0.15	302.4	5.7	-7.5
954	25.1	6.9	-5.9	13.1	15.4	0.30	302.3	5.3	-7.4
947	24.6	7.3	-5.8	15.5	15.3	0.20	302.4	5.7	-7.3
941	23.9	7.4	-6.0	14.4	15.1	0.20	302.3	5.7	-7.6
934	23.6	7.3	-6.4	14.0	14.4	0.20	302.6	5.6	-8.0
926	23.3	7.5	-7.0	12.3	14.0	0.20	303.1	5.6	-8.6
917	22.8	7.9	-7.2	12.1	13.4	0.20	303.4	6.0	-8.8
896	21.4	7.5	-7.3	5.2	12.5	0.20	303.9	5.5	-8.9
869	19.5	6.3	-8.1	5.4	11.8	0.20	304.7	4.2	-9.4
838	17.5	5.0	-7.4	3.5	10.9	0.20	305.8	3.1	-8.4
804	15.3	4.5	-6.6	0	10.2	0.20	307.1	2.8	-7.5
768	12.9	3.9	-6.3	2.0	9.2	0.20	308.5	2.3	-7.1
729	10.4	3.9	-6.0	0	8.0	0.20	310.4	2.4	-6.8
688	7.8	3.9	-5.4	0	6.9	0.20	312.7	2.4	-6.2
644	5.0	2.3	-5.8	0	5.7	0.20	315.5	0.8	-6.2
598	1.5	1.5	-5.0	0	4.7	0.20	318.3	0.3	-5.2
550	-1.2	-0.58	-4.7	0	4.6	0.20	322.7	-1.7	-4.5
501	-6.7	0	-3.8	7.0	3.8	0.20	324.7	-0.9	-3.7
452	-11.6	0.73	-2.1	7.0	1.8	0.20	328.2	0.2	-2.2
402	-17.3	-3.1	-2.9	-3.5	0.78	0.20	332.0	-3.7	-2.1
353	-23.6	-2.8	0	-4.9	0.24	0.19	336.2	-2.7	0.7
304	-32.7	-3.9	-1.6	-3.5	0.23	0.20	337.9	-4.2	-0.6
259	-41.5	-4.8	3.7	-3.0	0.18	0.20	340.8	-3.8	4.7
220	-50.5	-5.7	3.9	-3.6	1E-1	0.20	343.2	-4.6	5.1
183	-61.4	-7.6	1.4	-1.6	2E-2	0.20	344.3	-7.0	3.2
138	-72.6	-9.4	1.5	0.71	1E-2	0.20	353.5	-8.8	3.7
88	-65.4	-9.4	-4.3	-1.2	1E-2	0.20	416.2	-10.2	-1.9
63	-58.4	-13.6	-5.2	-1E-1	1E-2	0.20	473.7	-14.5	-1.8
38	-47.1	-26.2	-8.8	0.40	3E-2	0.20	577.0	-27.6	-2.3