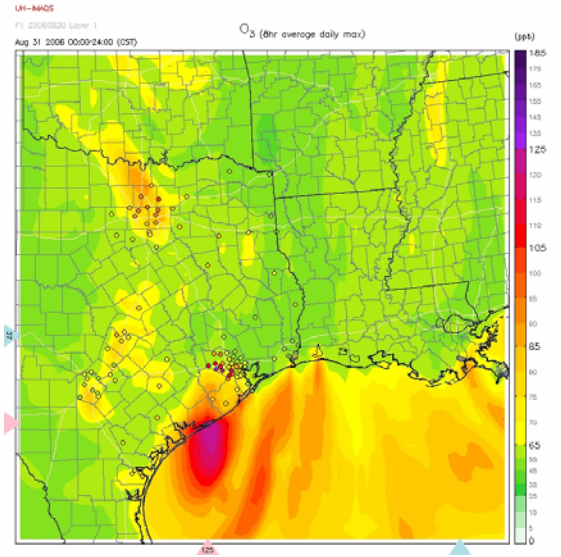
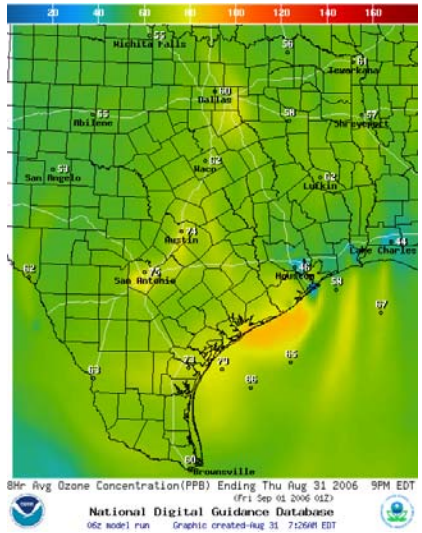
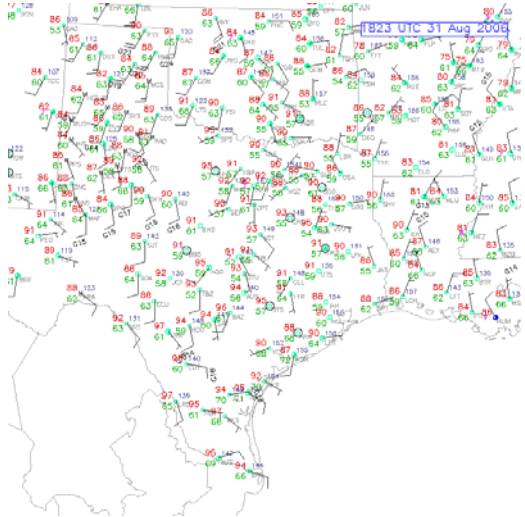






Verification of Ozone Forecast Modeling during TexAQS-II

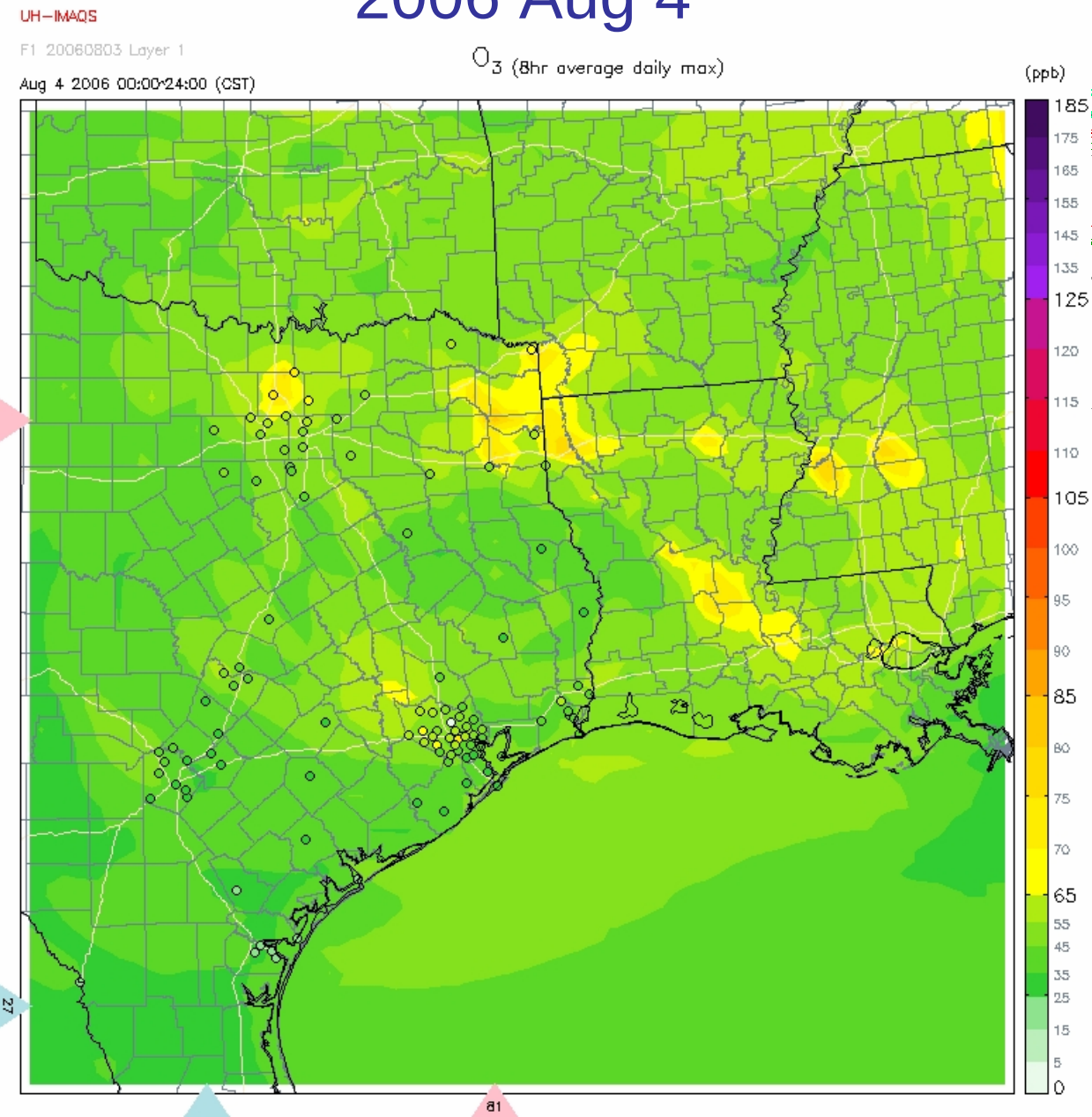
Prepared by Bryan Lambeth

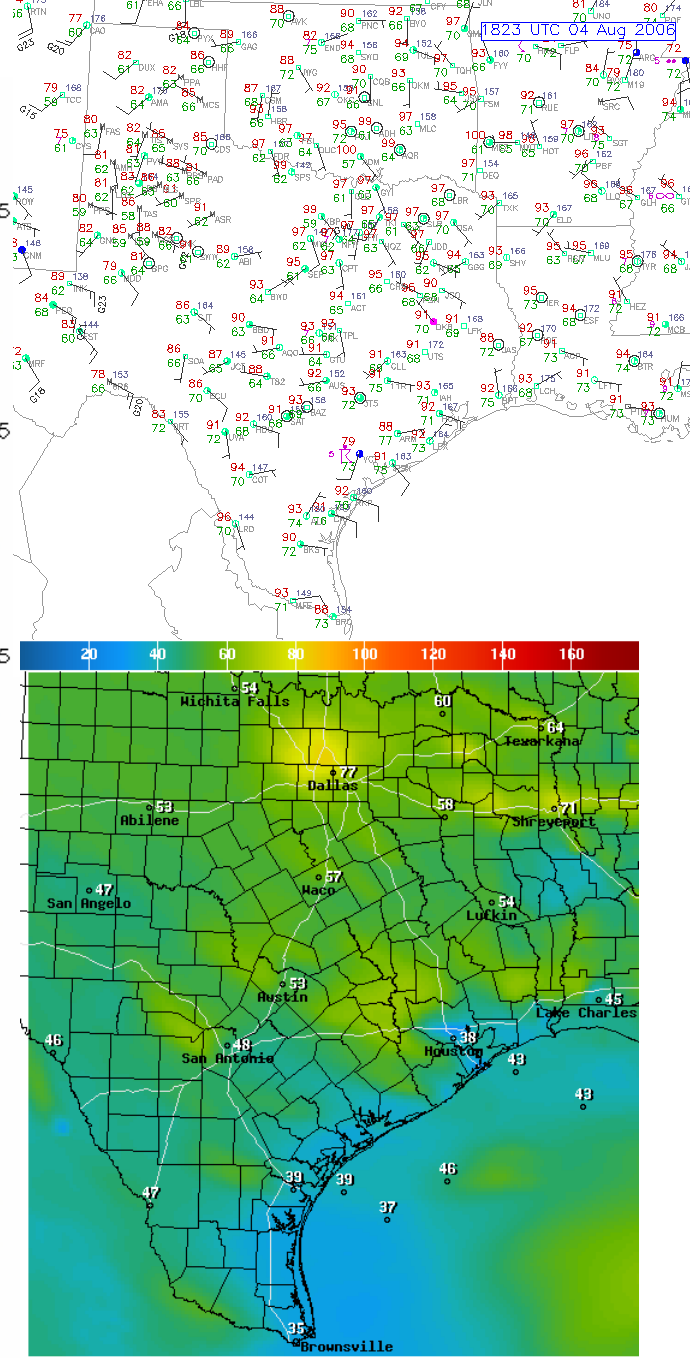
Texas Commission on Environmental Quality

Monitoring Operations Division

May 2007

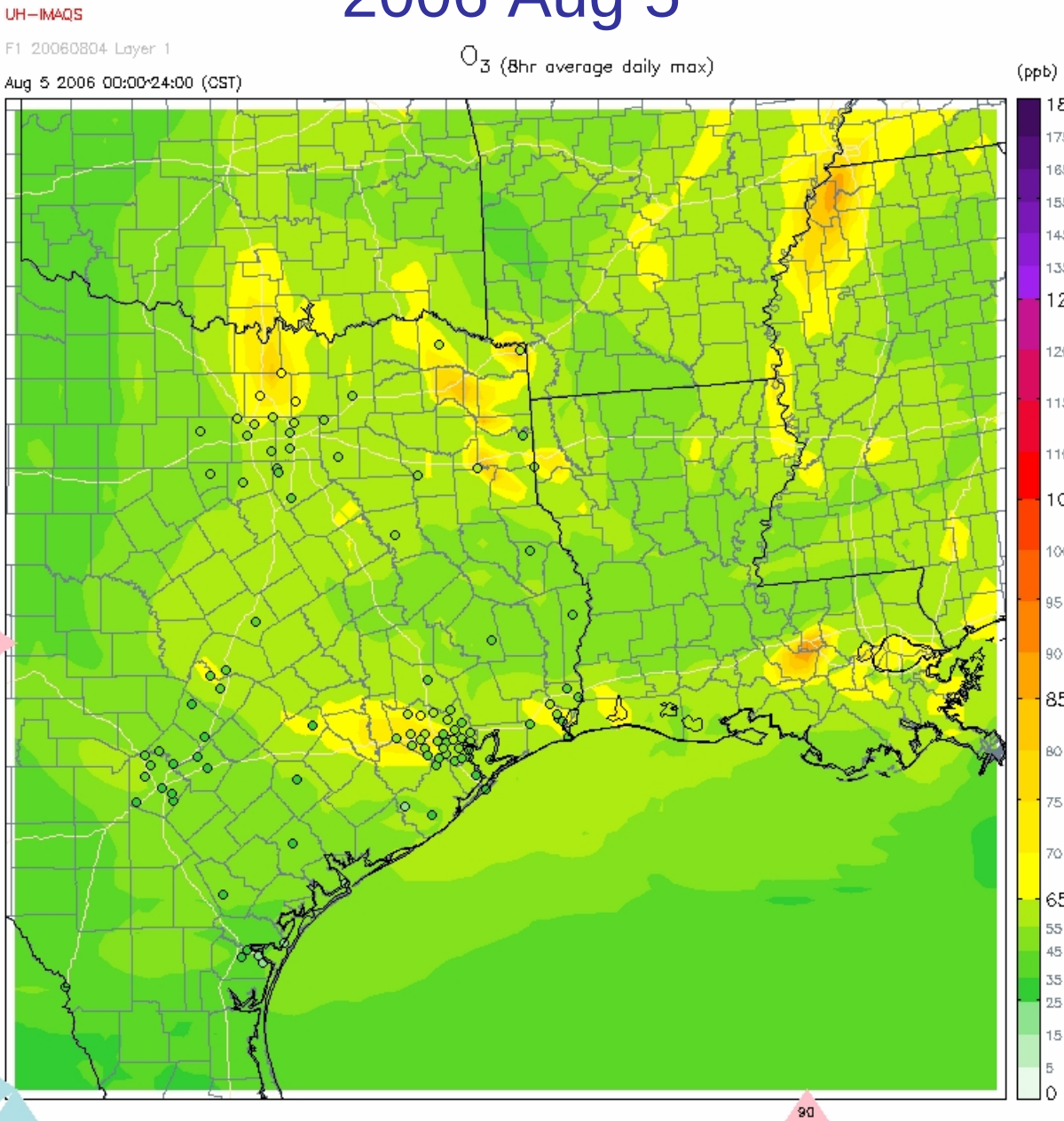
2006 Aug 4

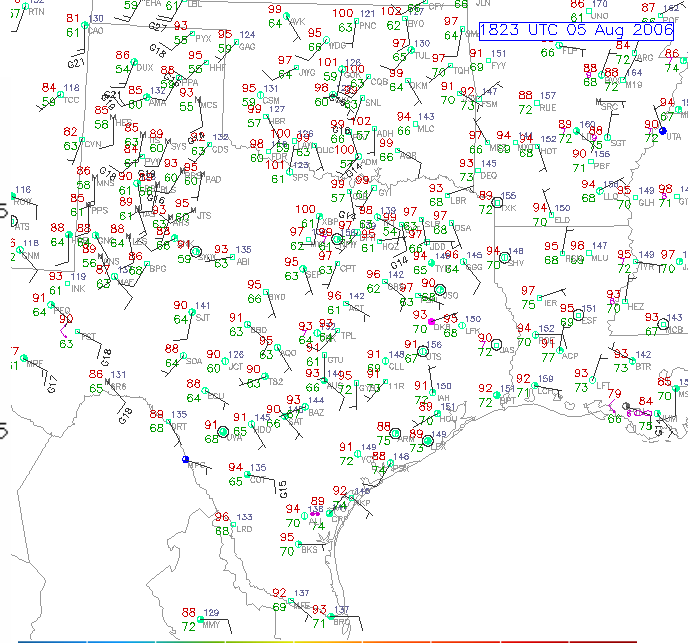


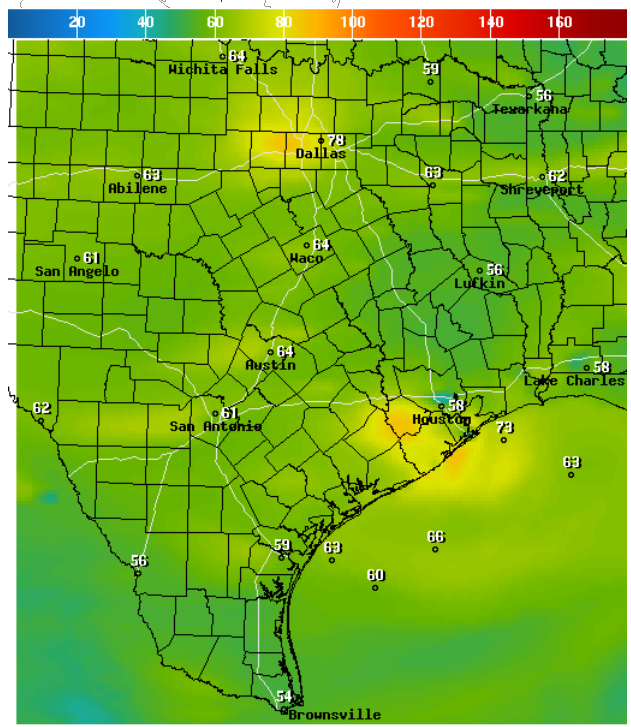


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 5



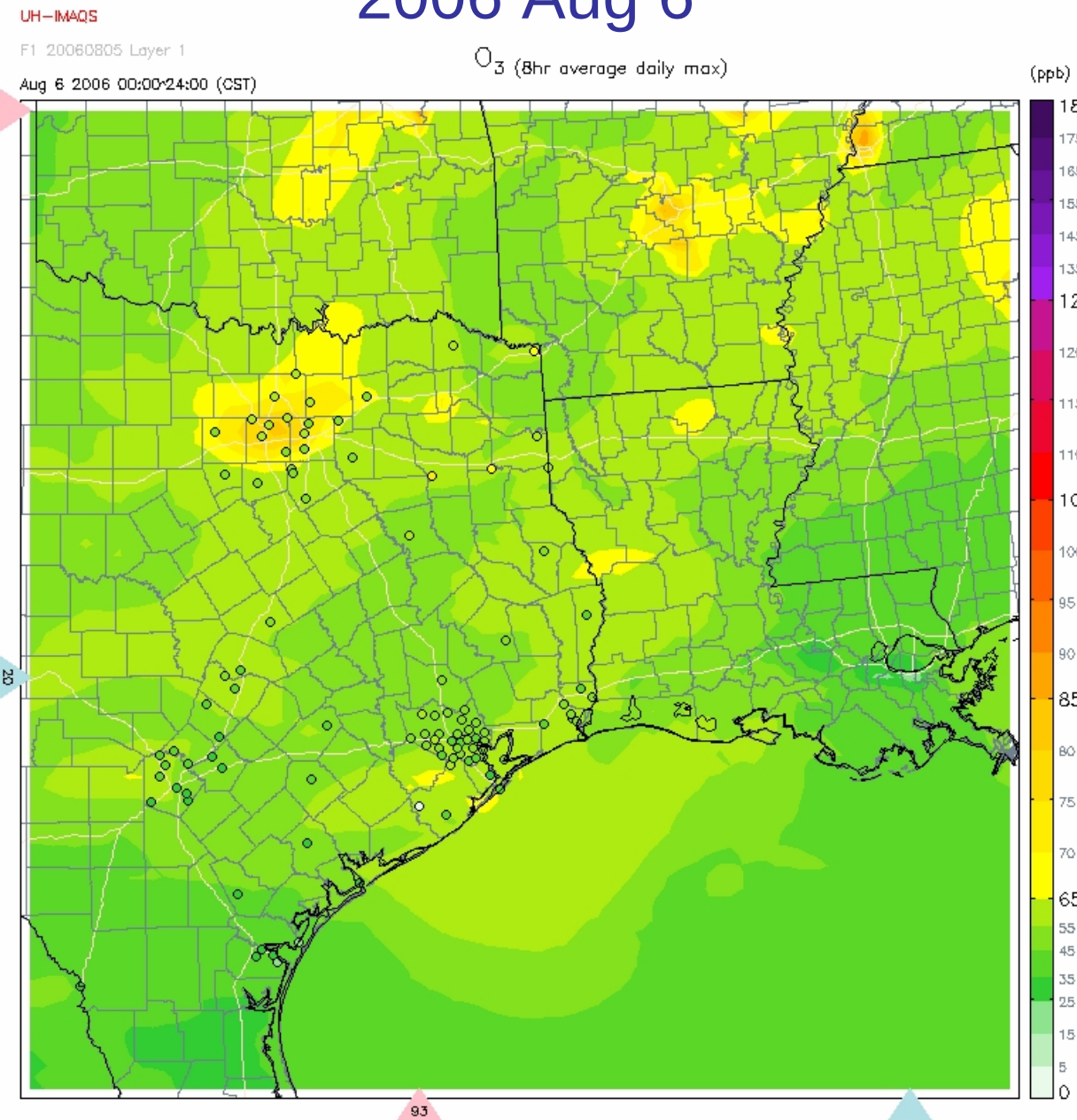


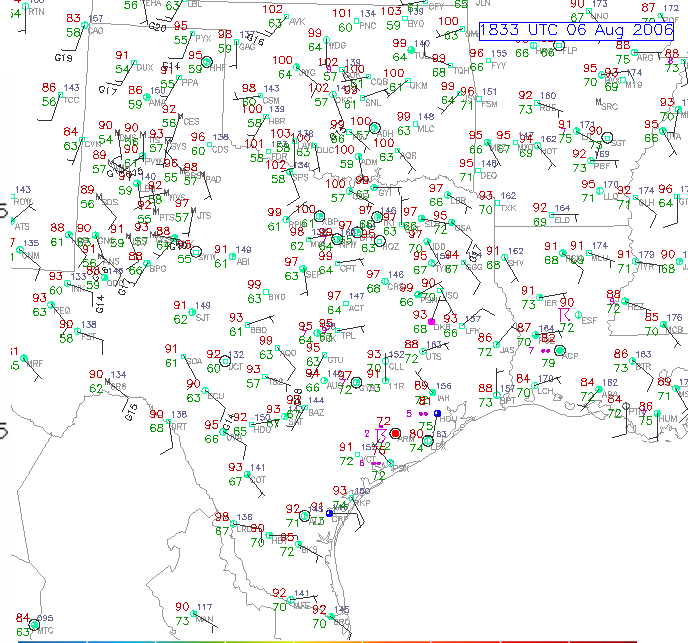


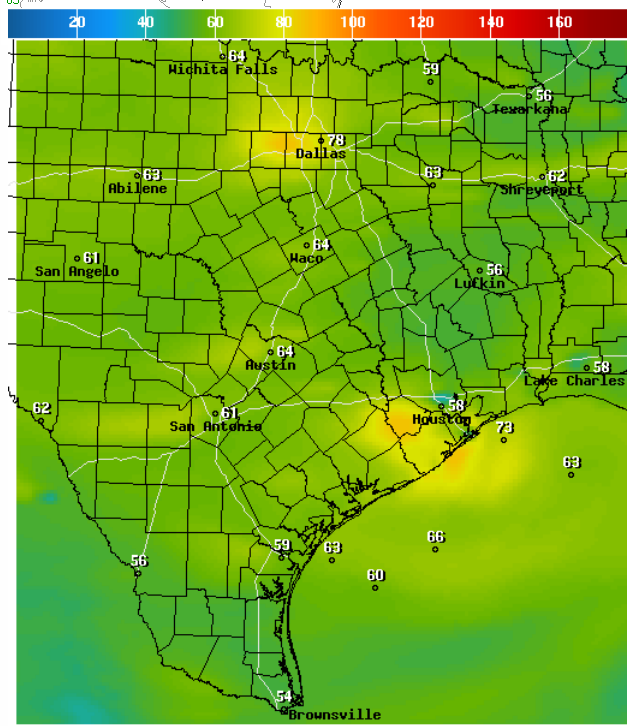
8Hr Avg Ozone Concentration(PPB) Ending Sun Aug 06 2006 9PM EDT
(Mon Aug 07 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 06 7:27AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 6



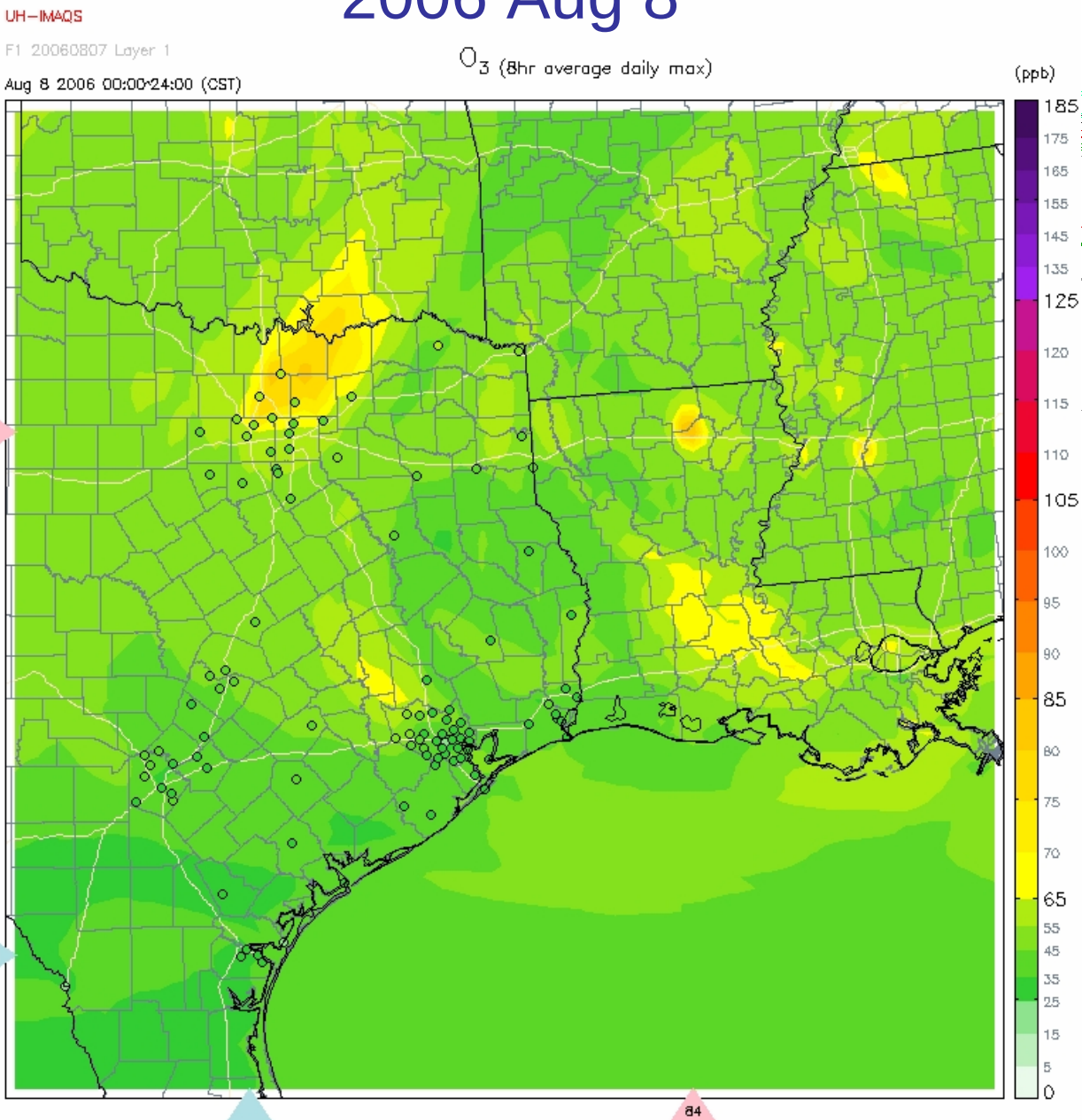


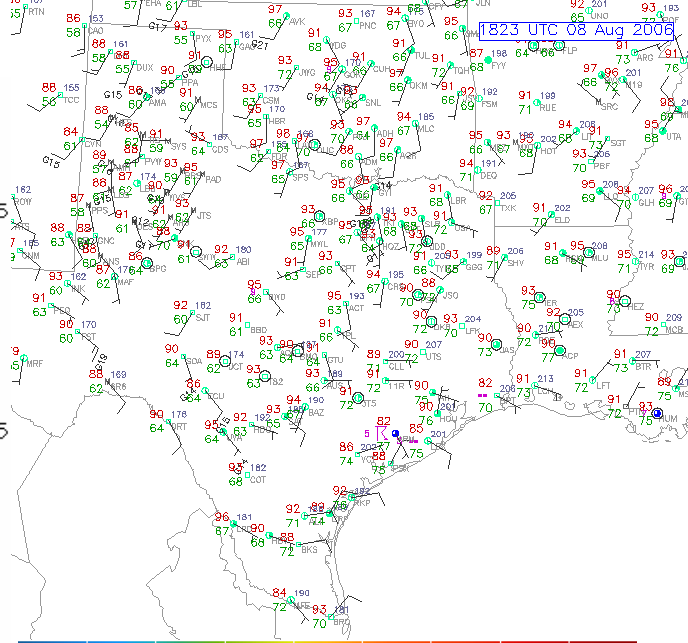


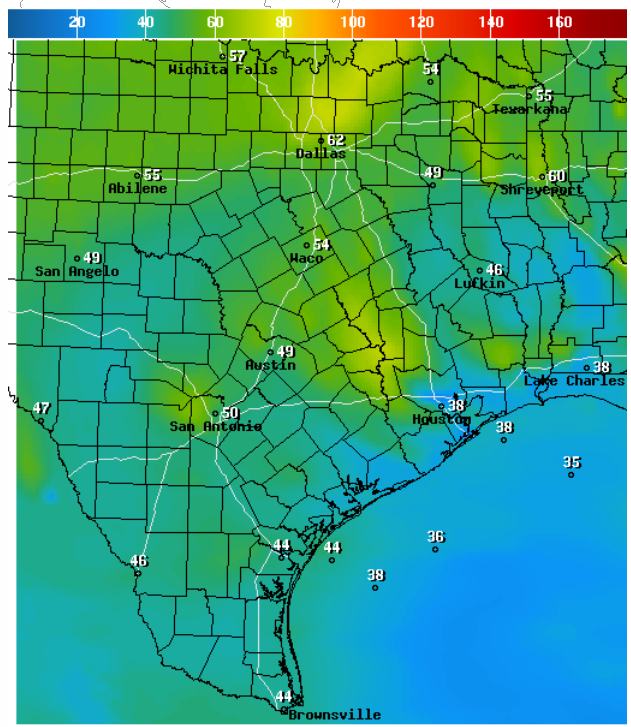
8Hr Avg Ozone Concentration(PPB) Ending Sun Aug 06 2006 9PM EDT
(Mon Aug 07 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 06 7:27AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 8

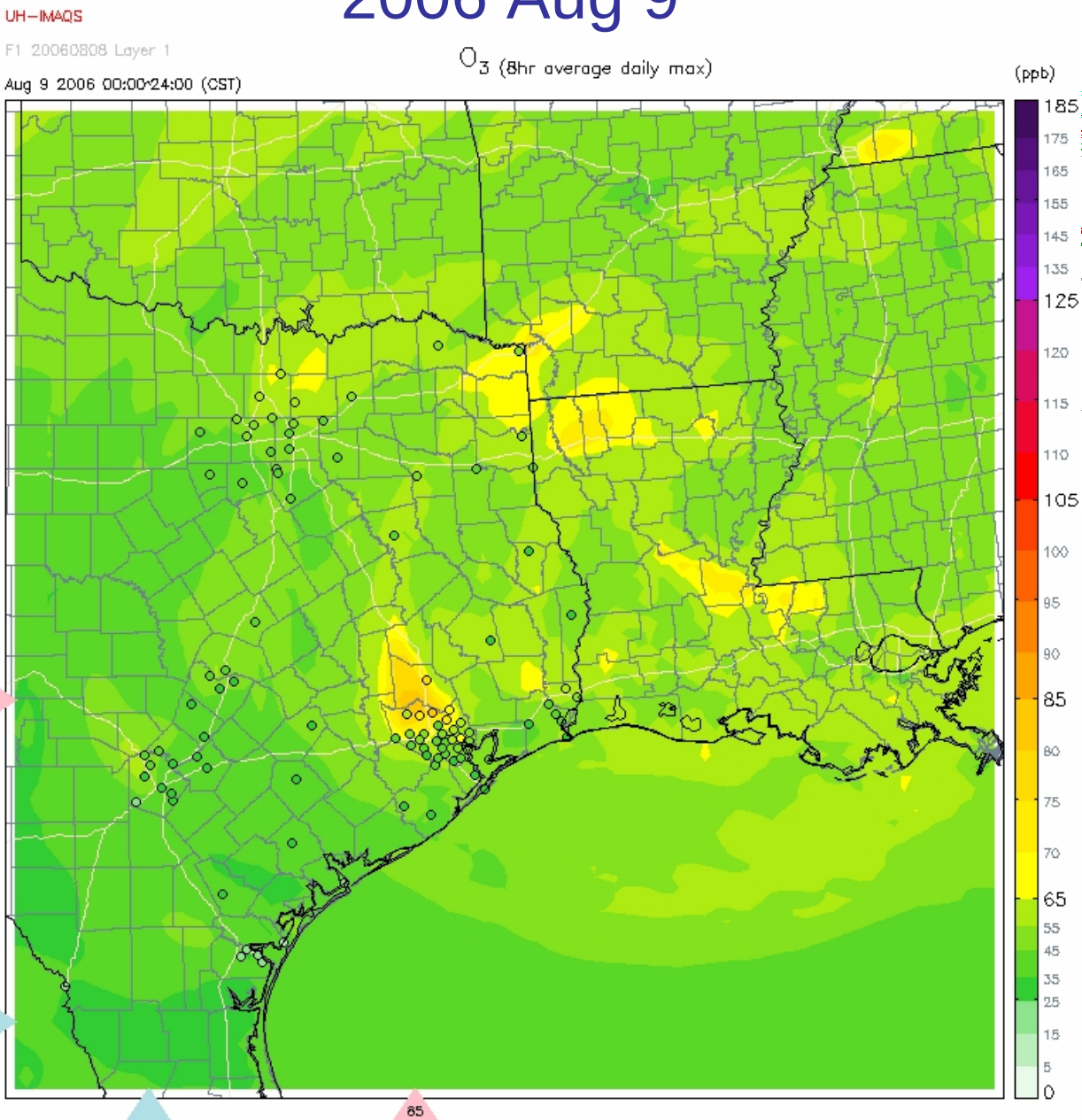


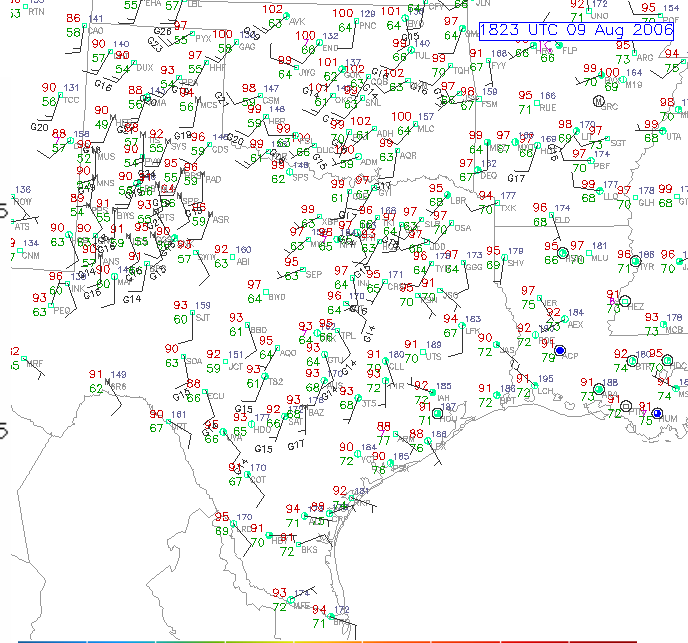


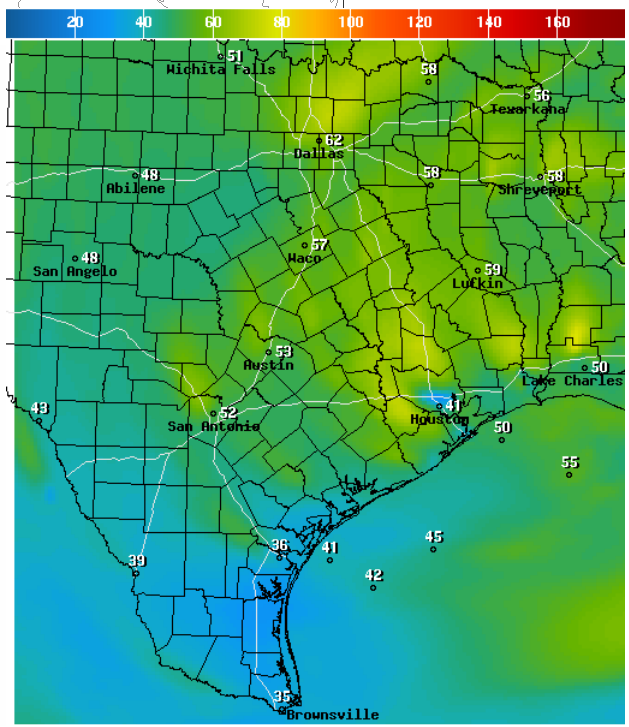


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 9

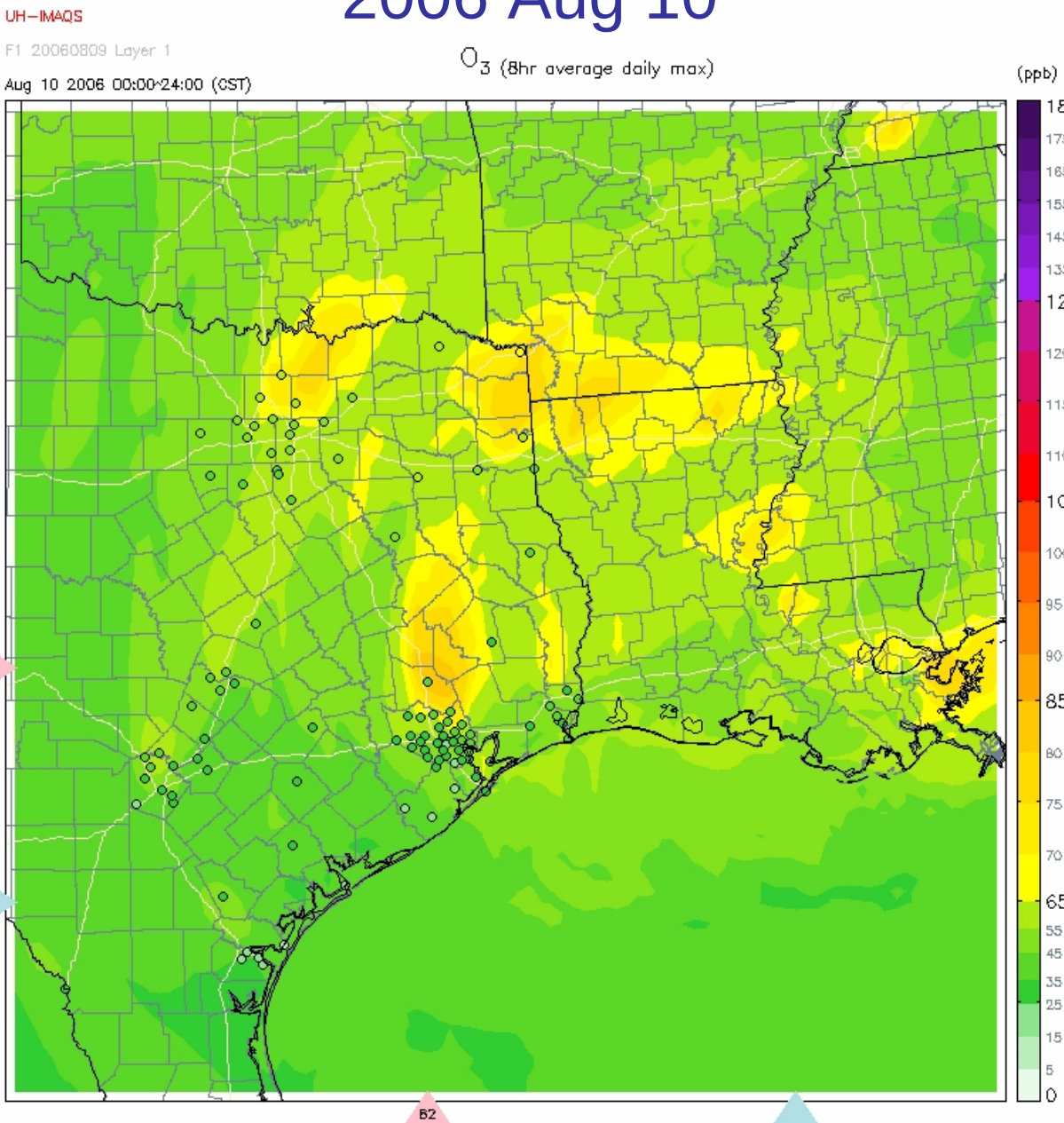


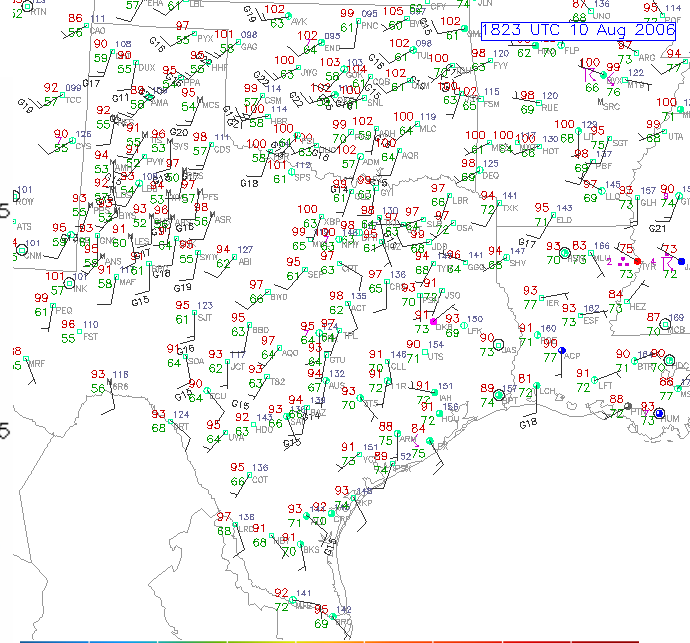


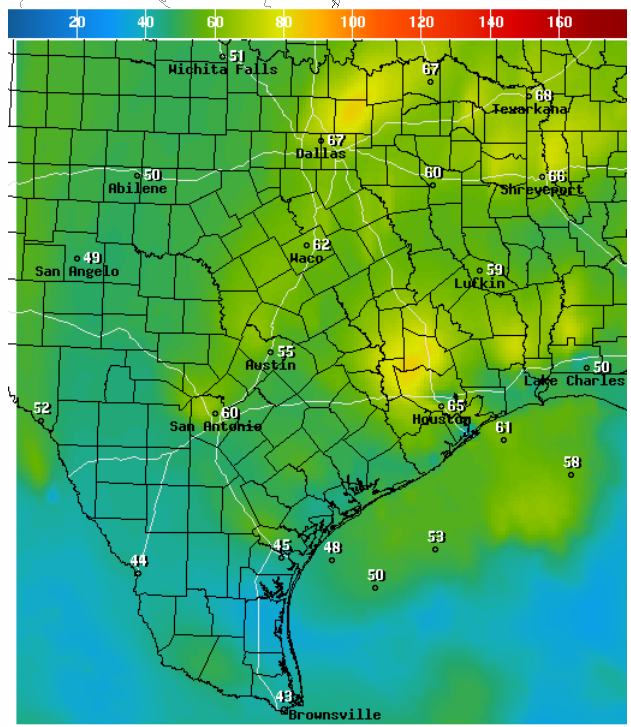


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 10



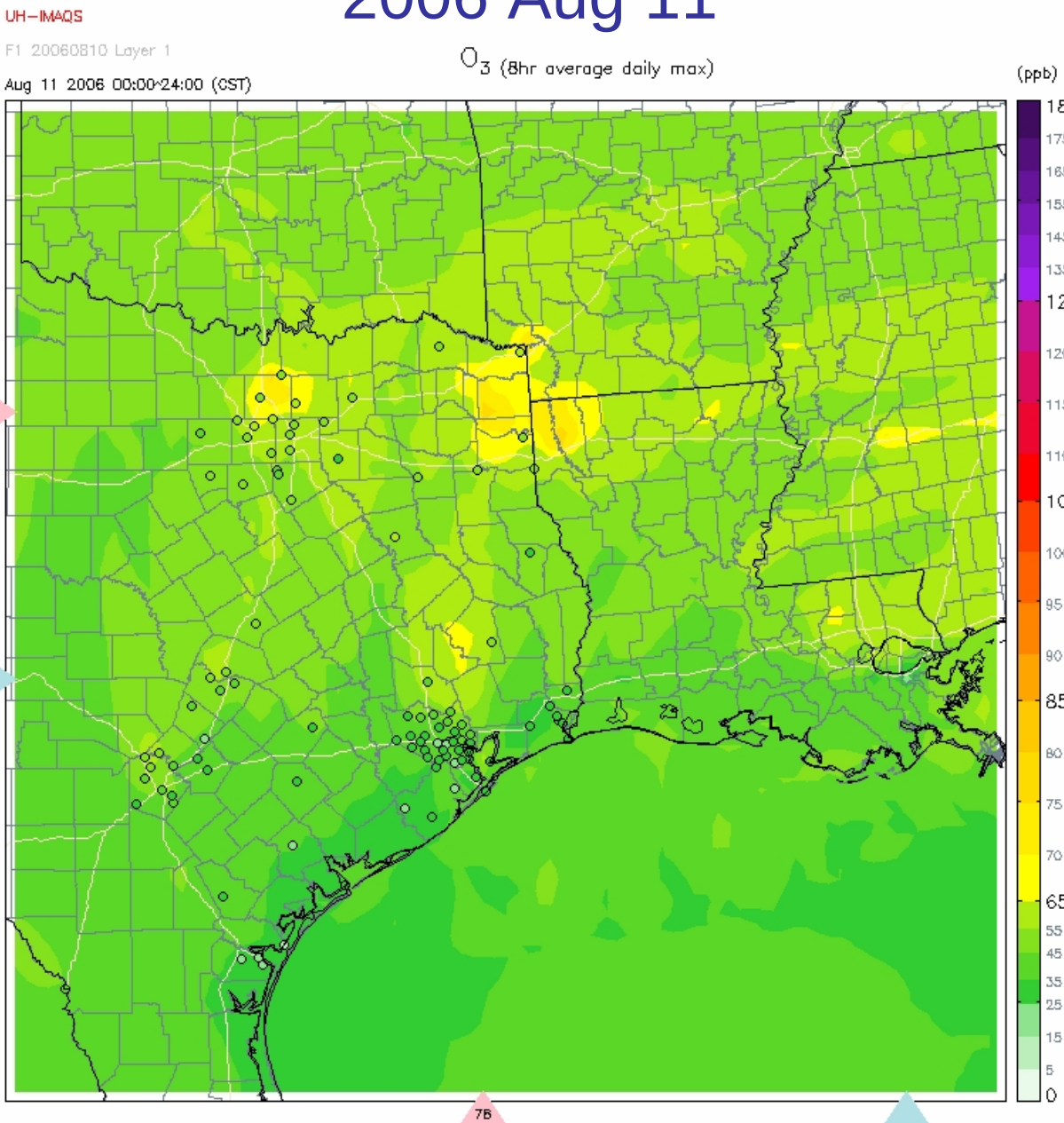


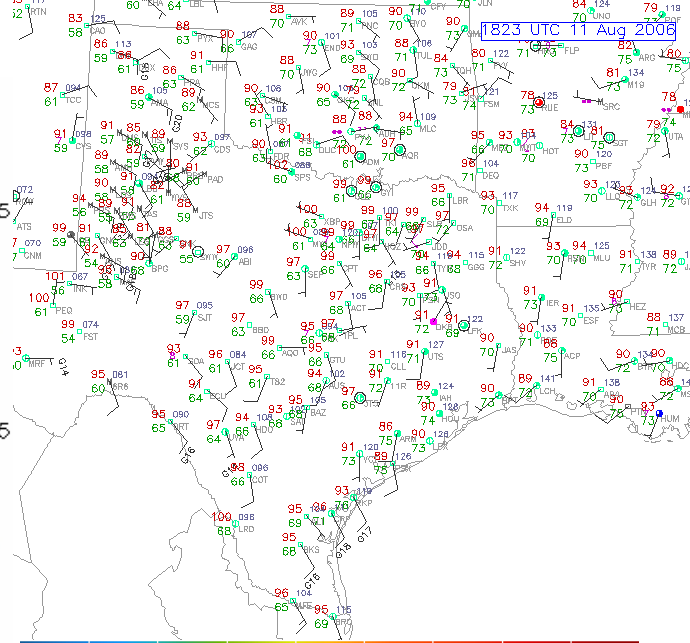


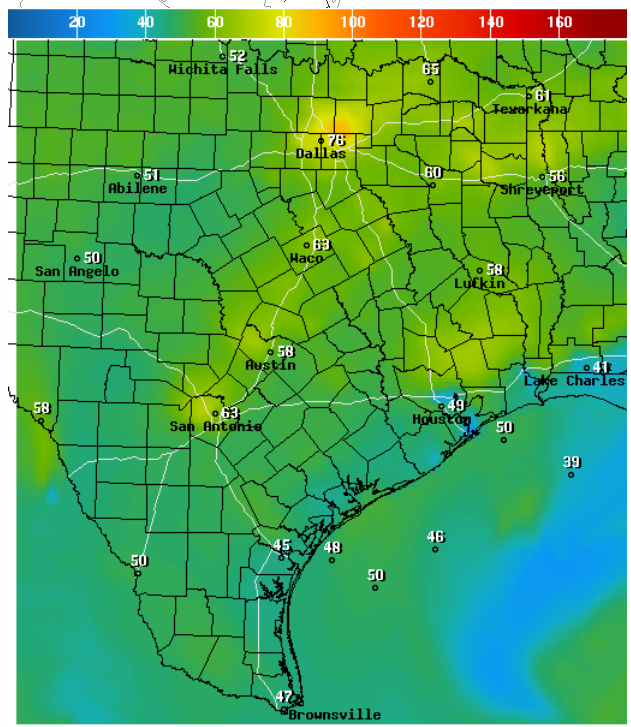
8Hr Avg Ozone Concentration(PPB) Ending Thu Aug 10 2006 9PM EDT
(Fri Aug 11 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 10 9:25AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 11



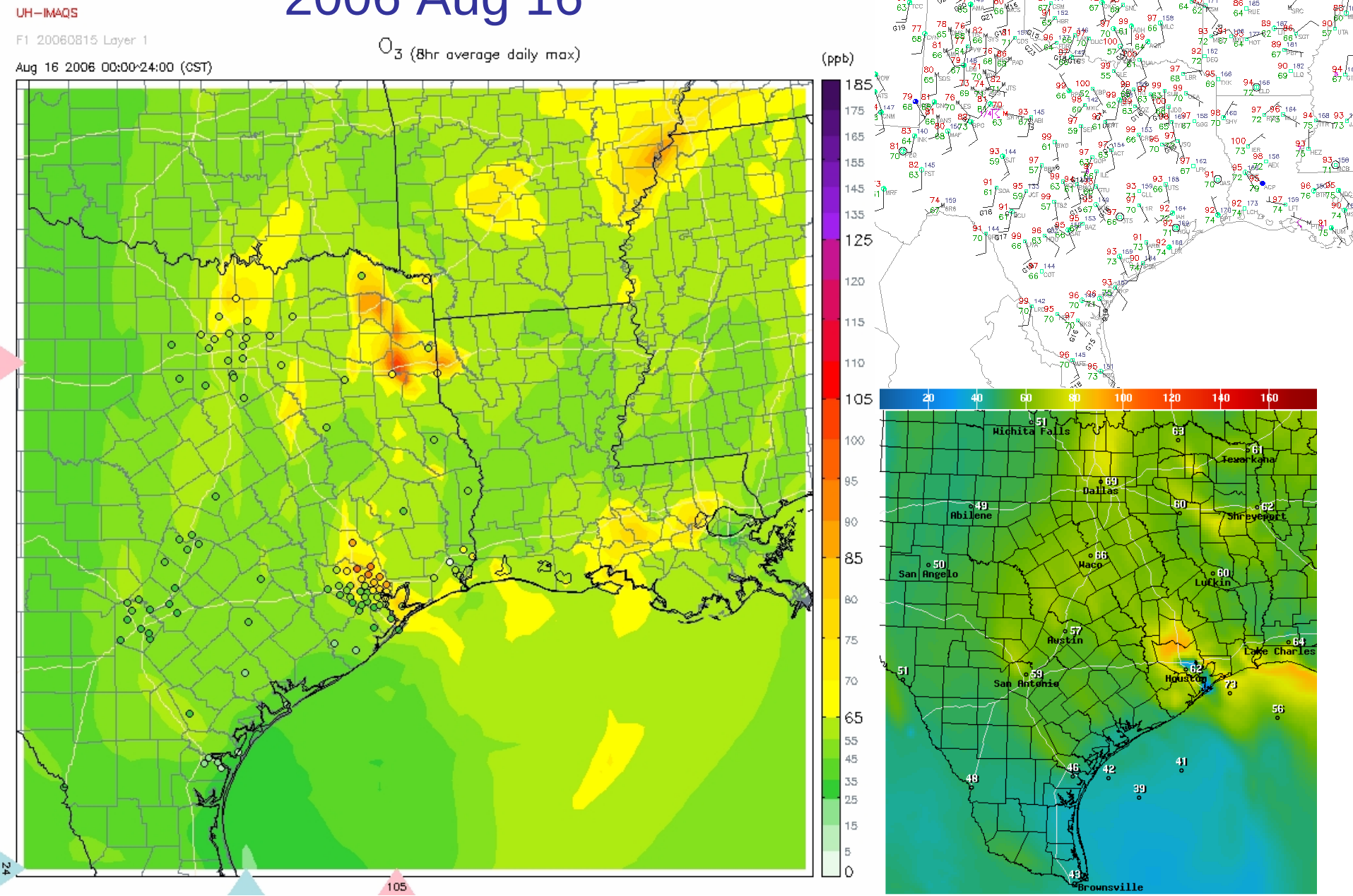




8Hr Avg Ozone Concentration(PPB) Ending Fri Aug 11 2006 9PM EDT
(Sat Aug 12 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 11 9:25AM EDT

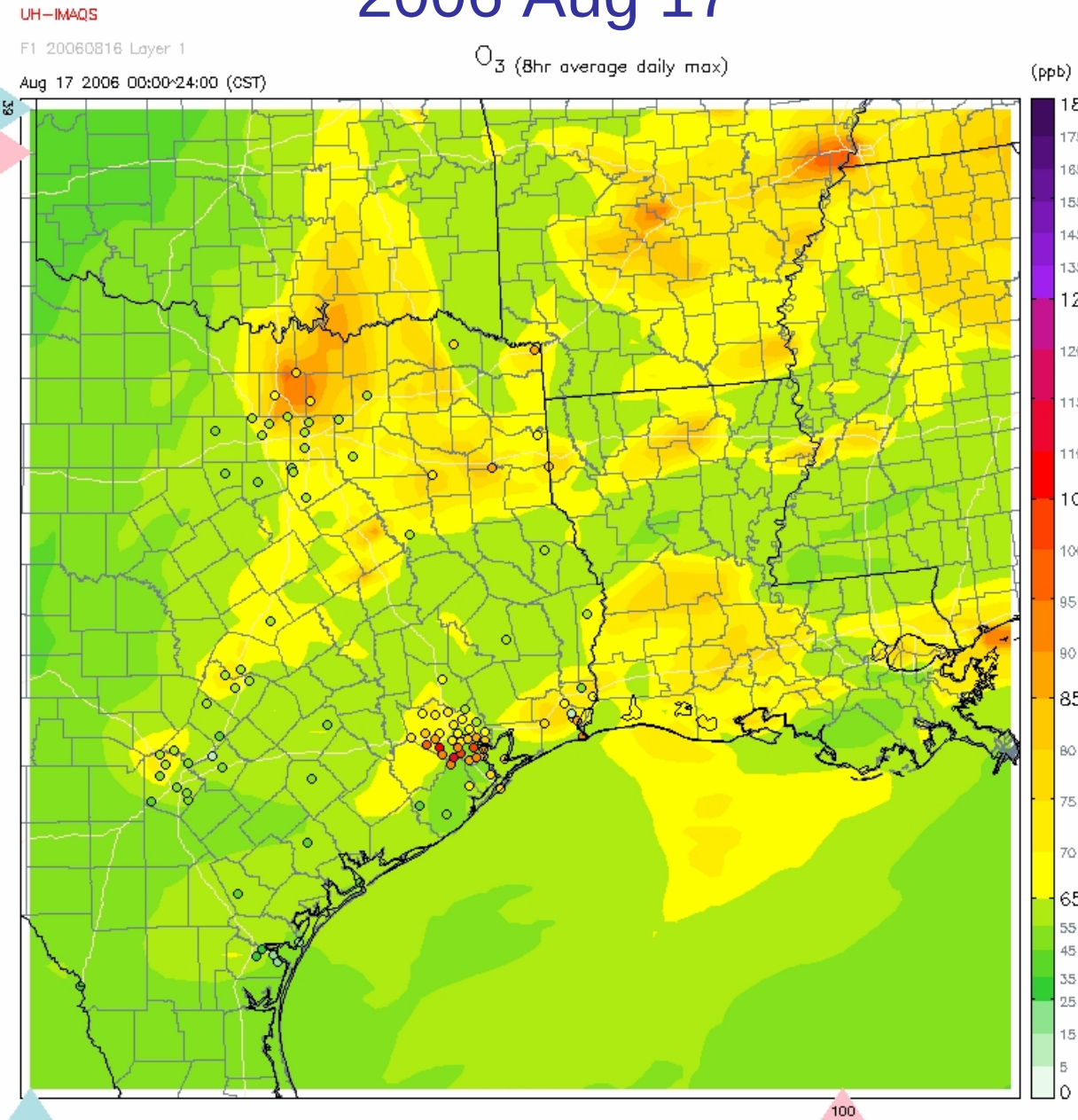
UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

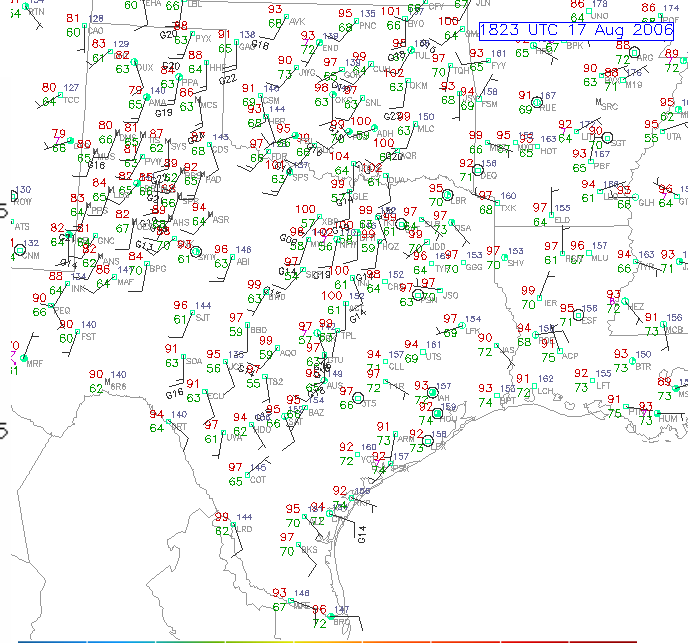
2006 Aug 16

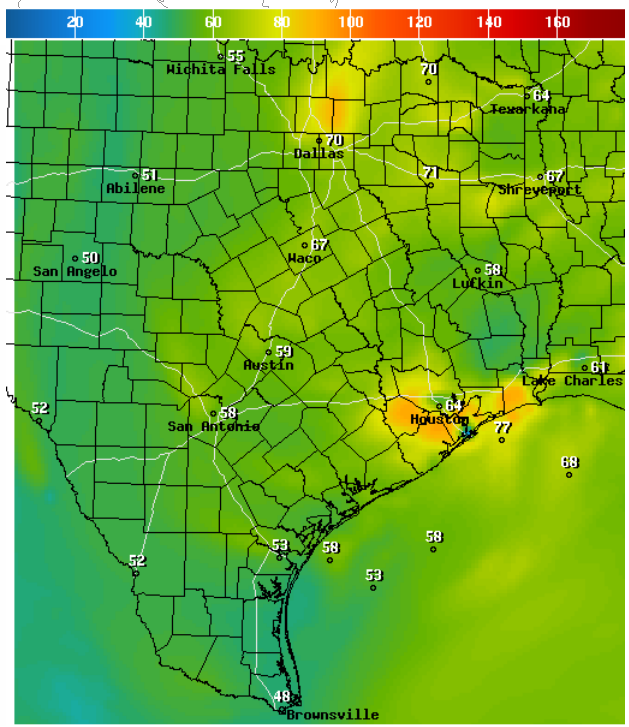


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 17



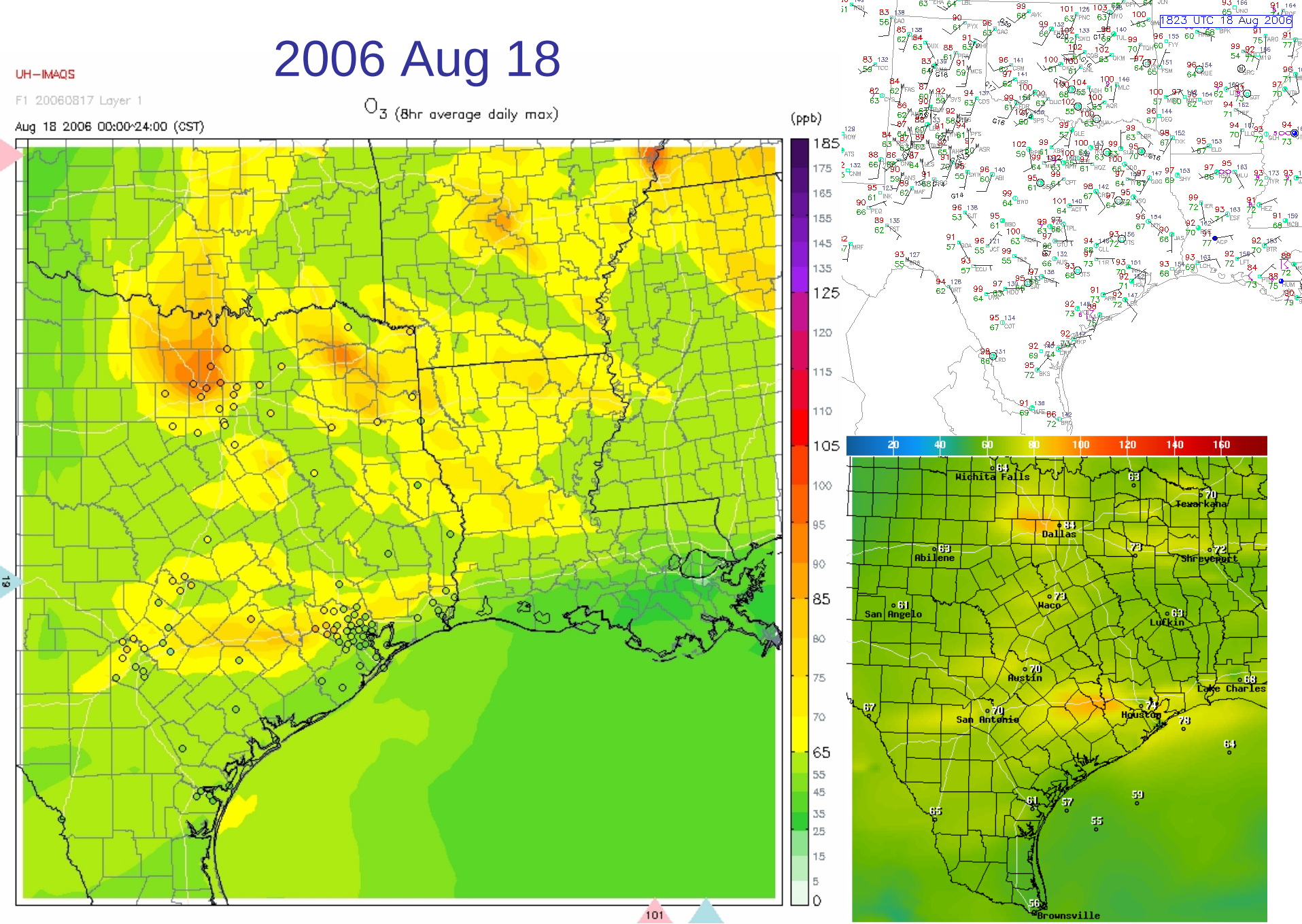




8Hr Avg Ozone Concentration(PPB) Ending Thu Aug 17 2006 9PM EDT
(Fri Aug 18 2006 01Z)
National Digital Guidance Database
12z model run Graphic created-Aug 17 1:27PM EDT

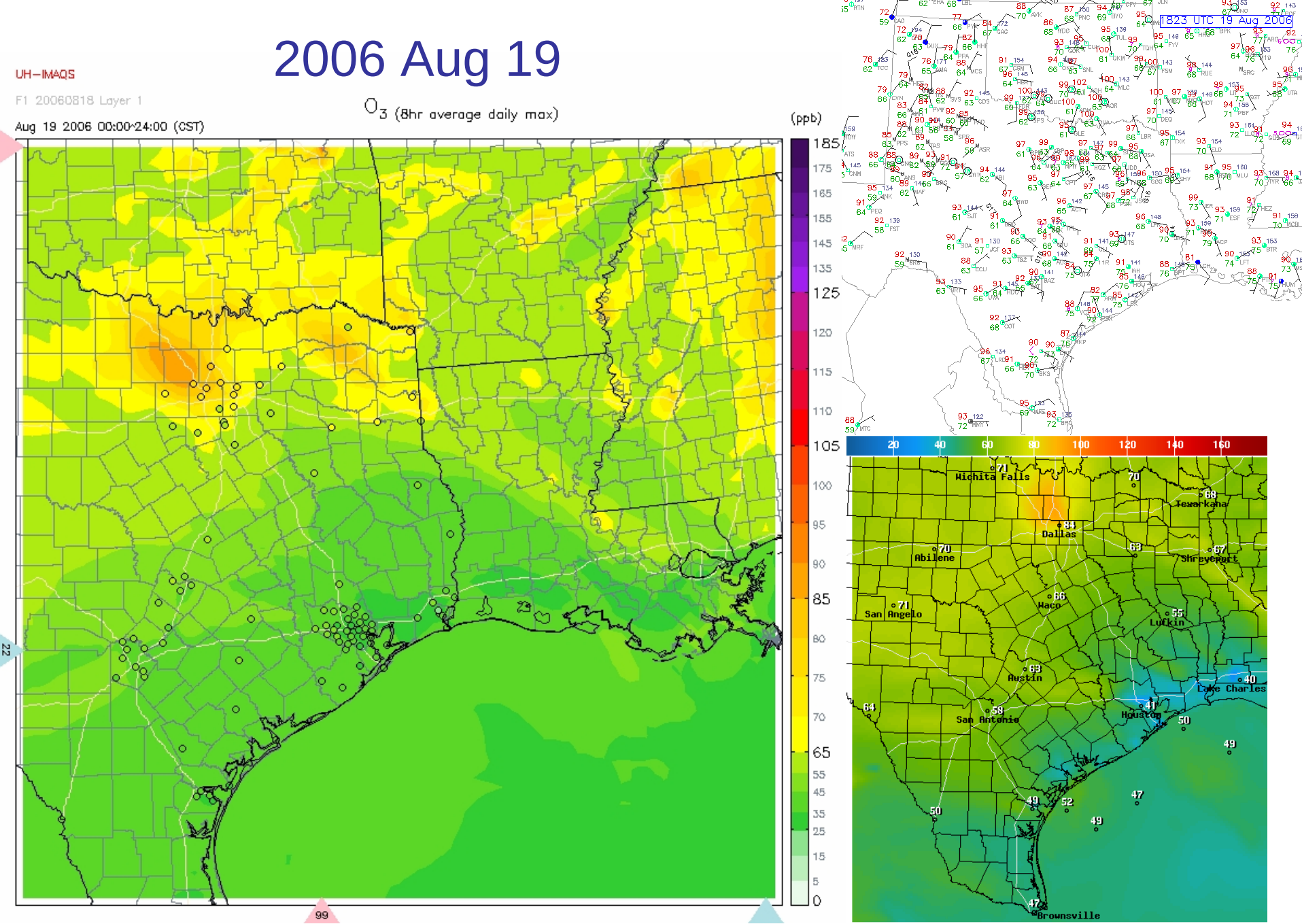
UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 18



UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

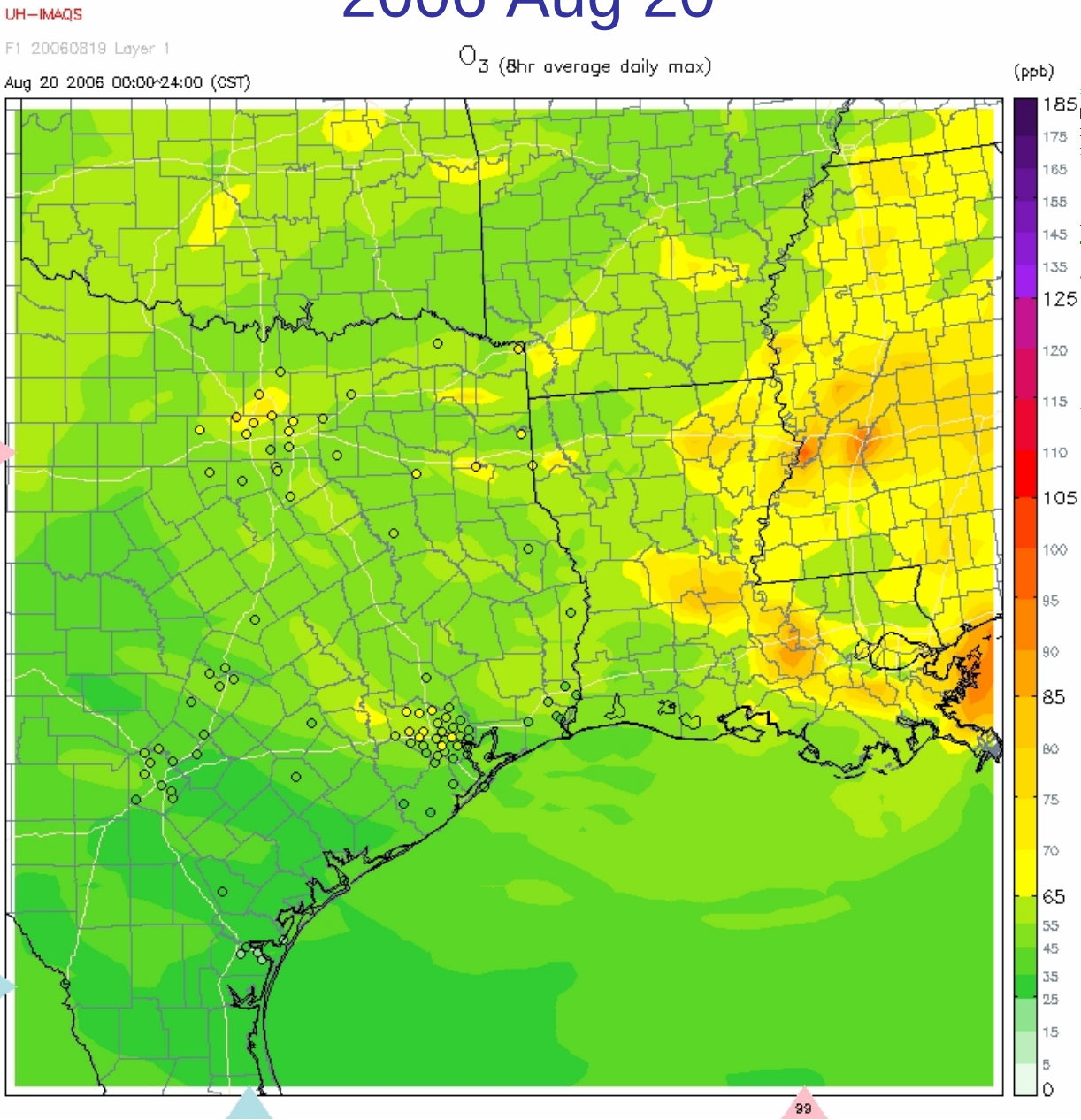
2006 Aug 19

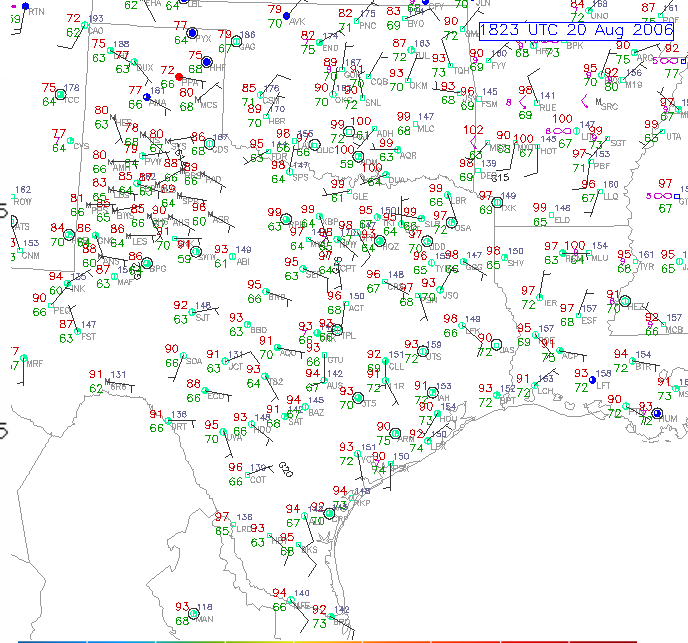


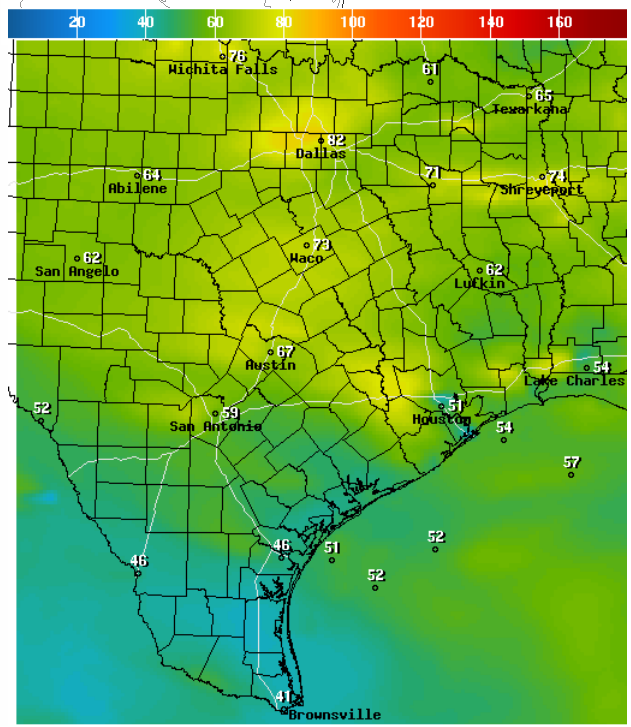
8Hr Avg Ozone Concentration(PPB) Ending Sat Aug 19 2006 9PM EDT
(Sun Aug 20 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 19 7:26AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 20



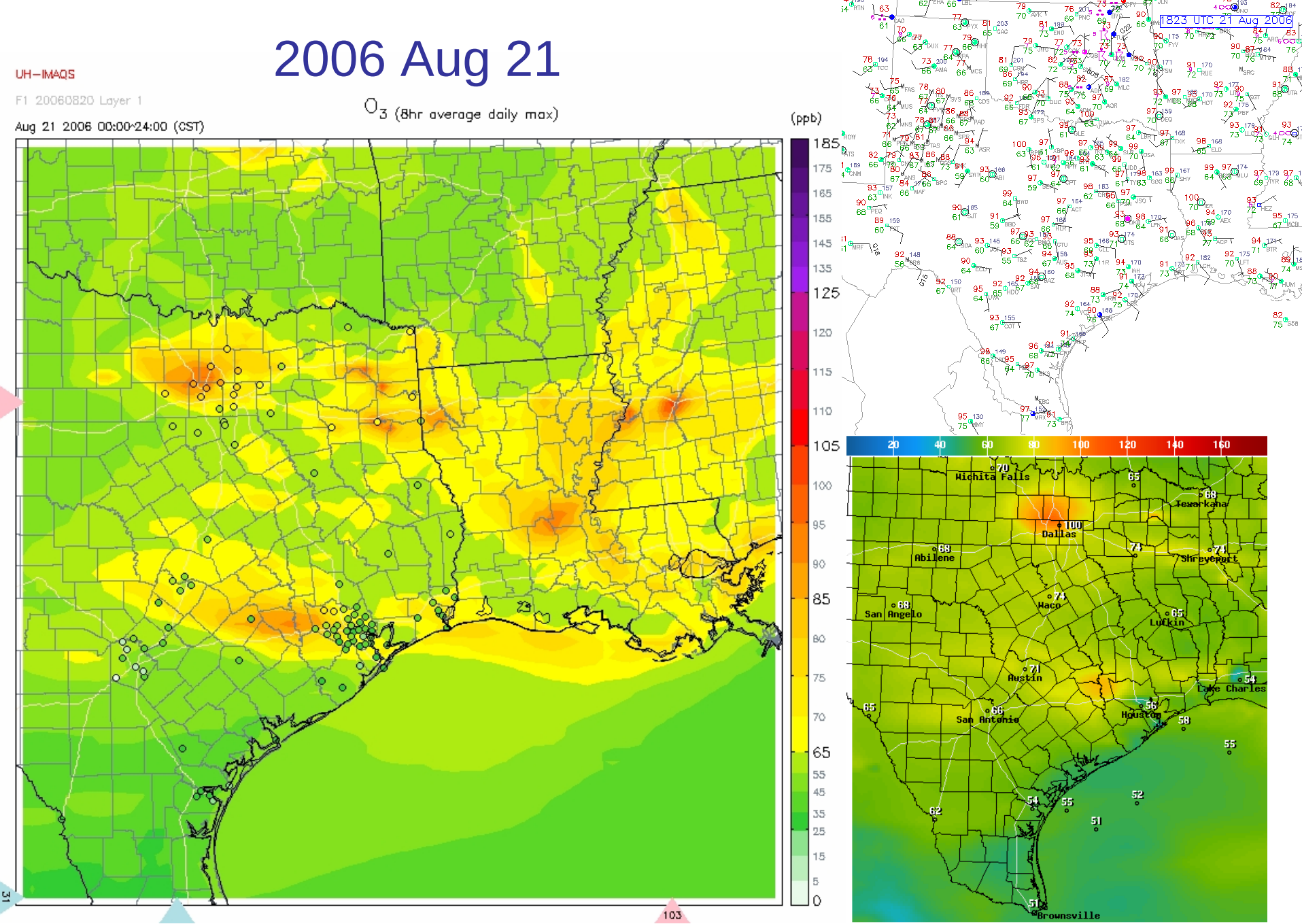




8Hr Avg Ozone Concentration(PPB) Ending Sun Aug 20 2006 9PM EDT
(Mon Aug 21 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 20 7:26AM EDT

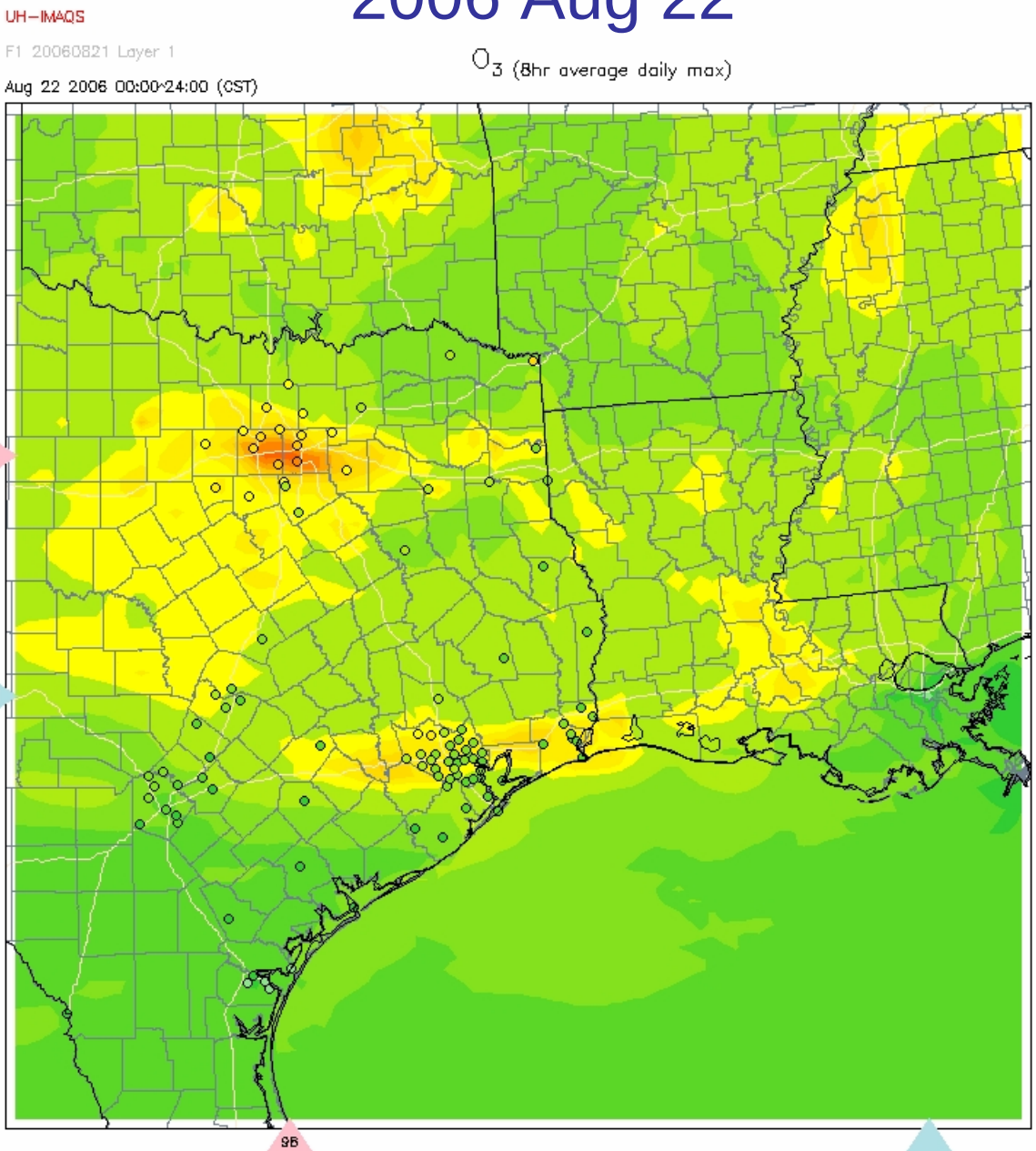
UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

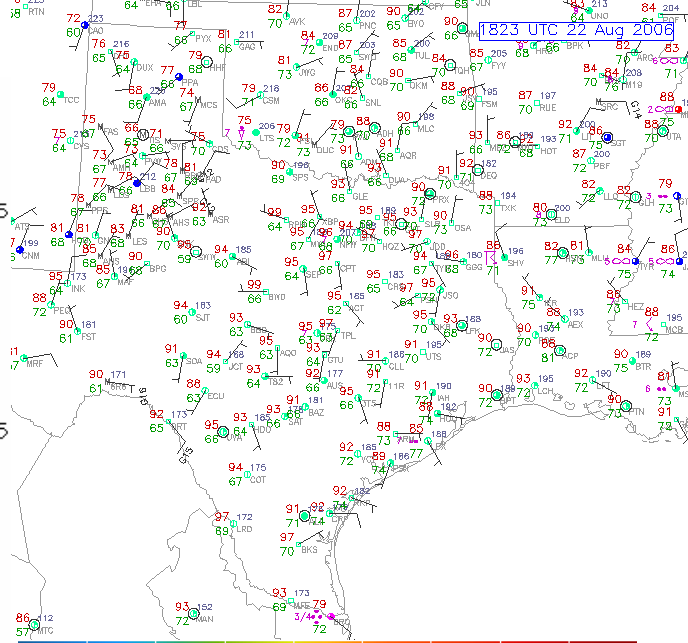
2006 Aug 21

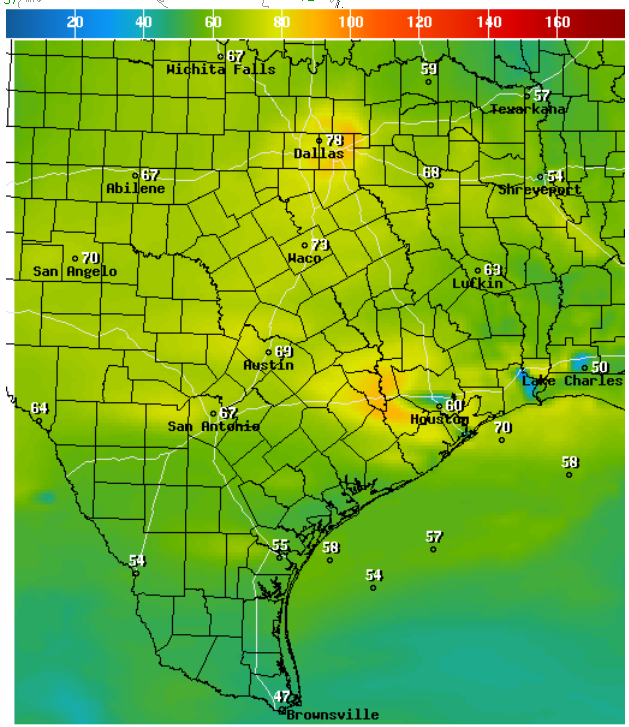


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 22



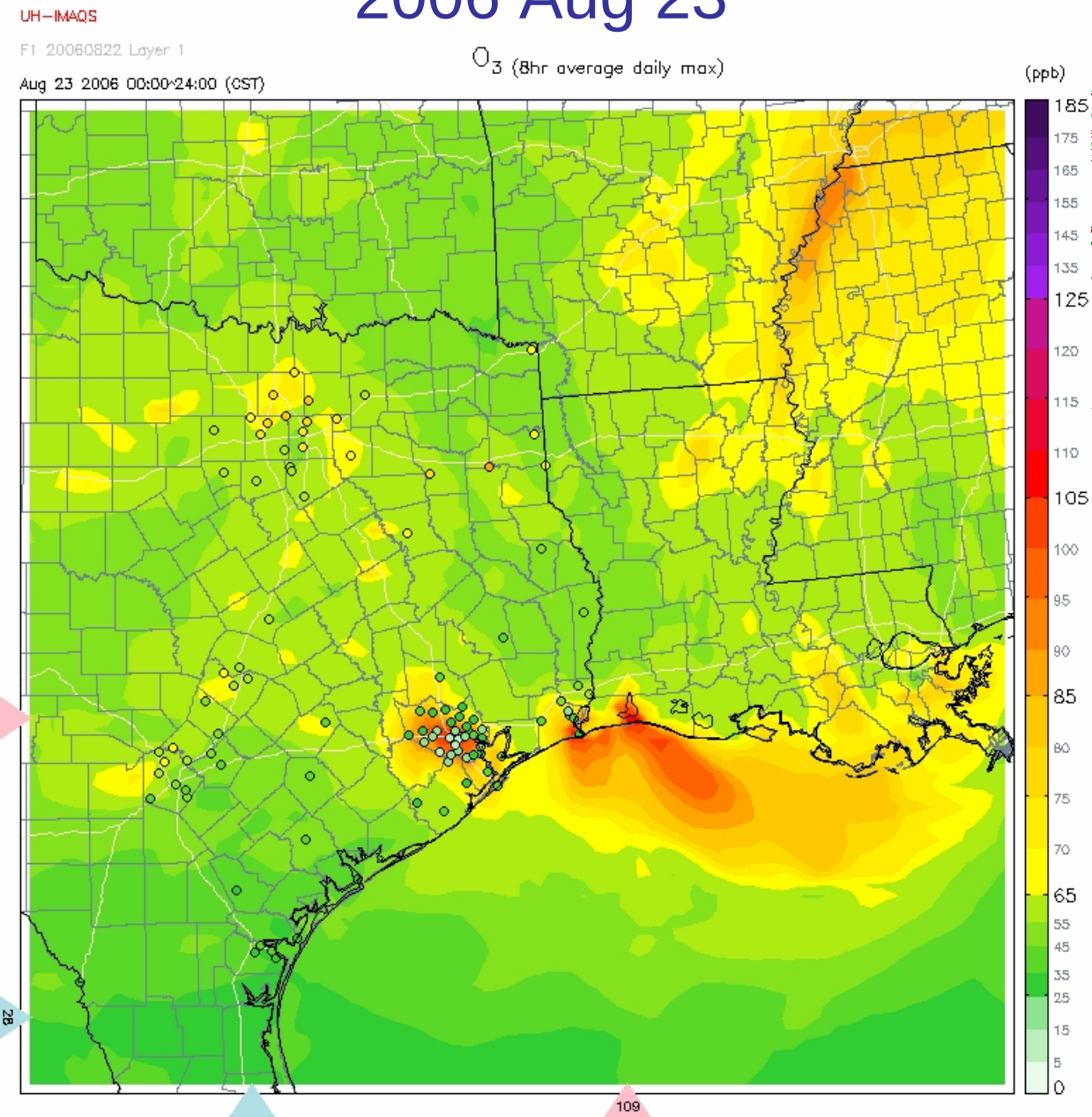


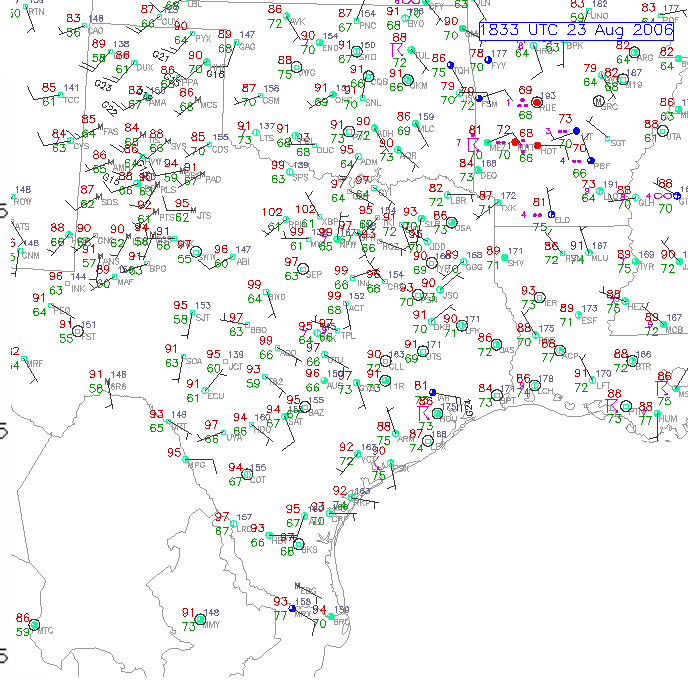


8Hr Avg Ozone Concentration(PPB) Ending Tue Aug 22 2006 9PM EDT
(Wed Aug 23 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 22 7:26AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

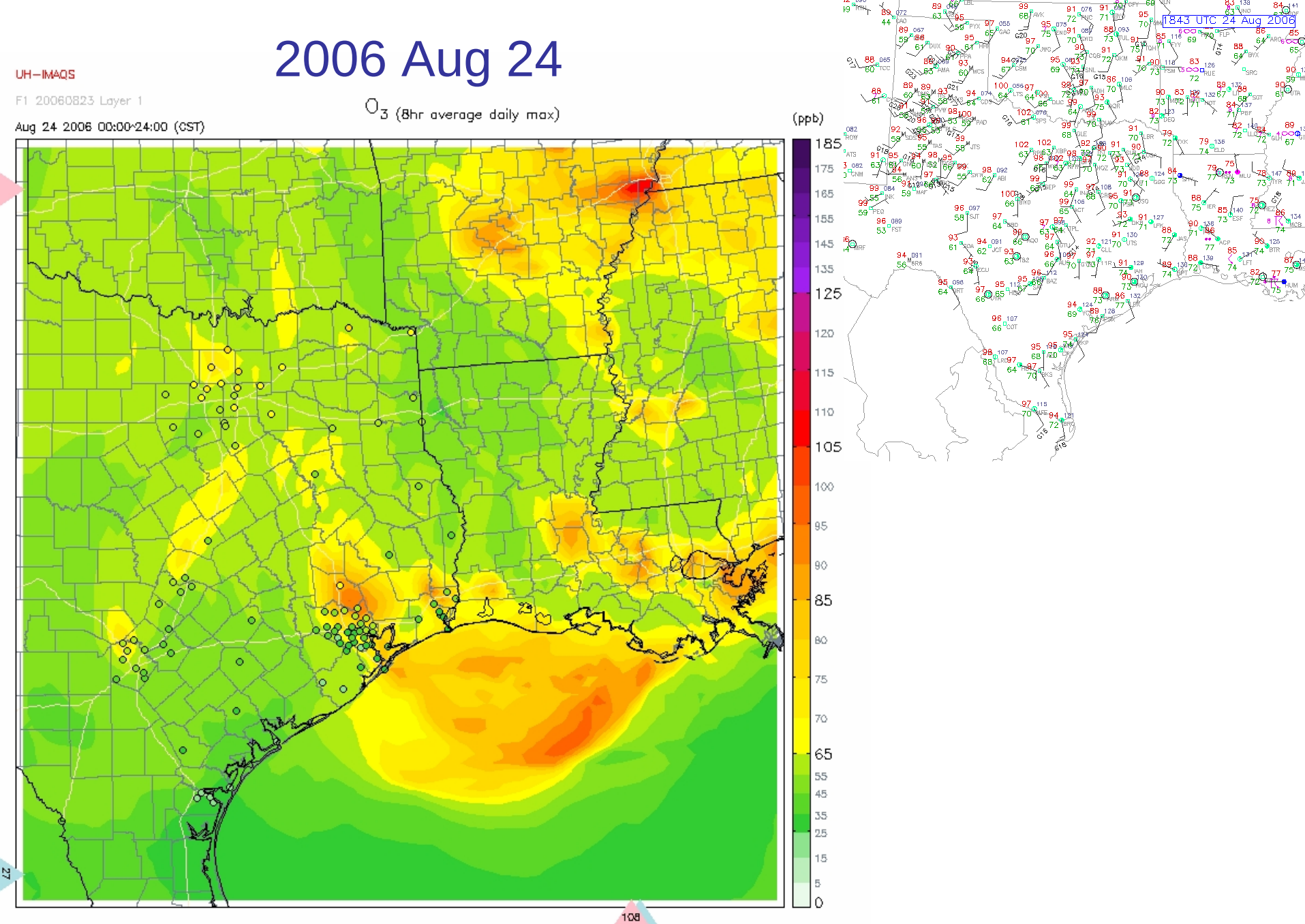
2006 Aug 23





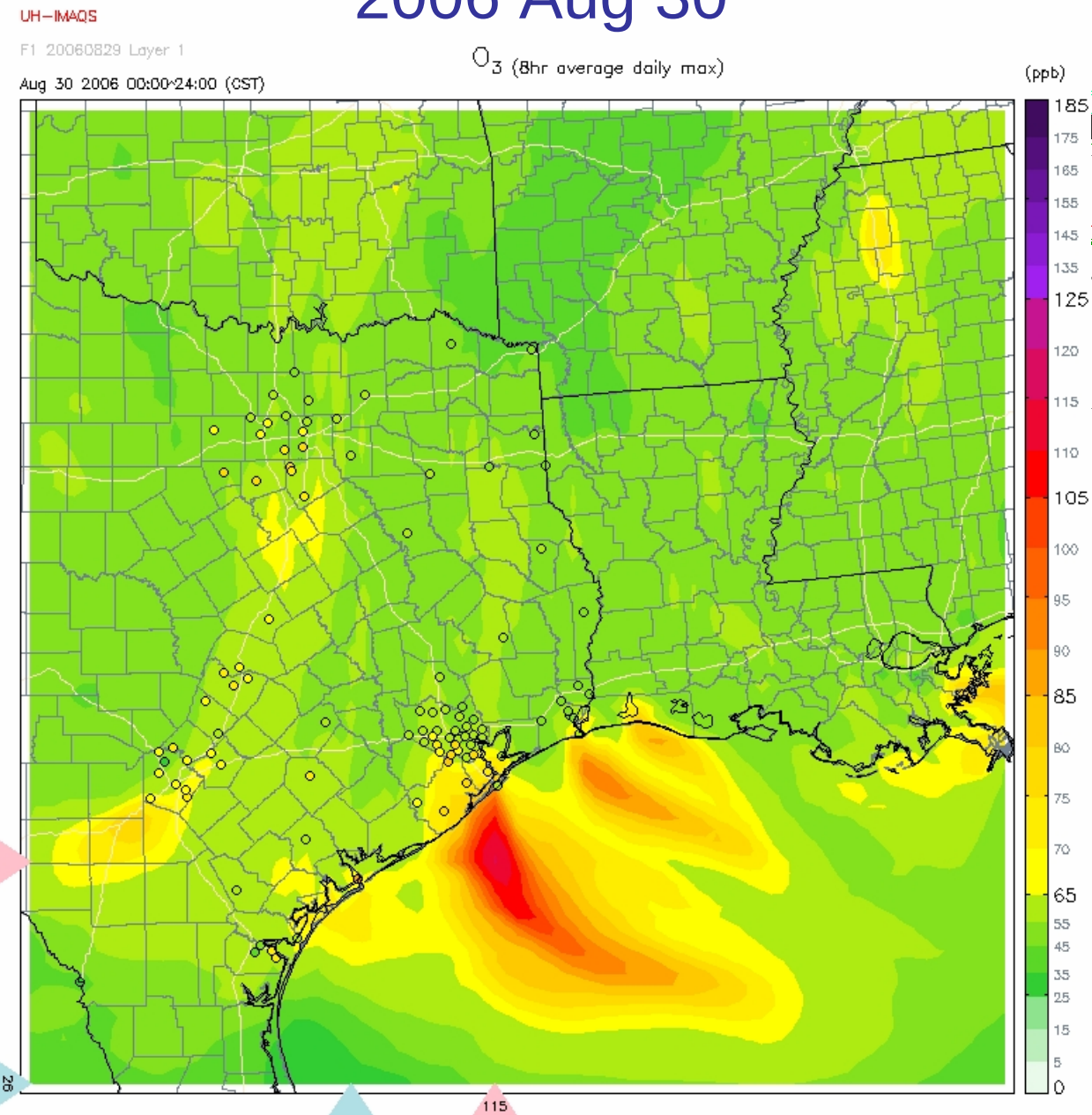
UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

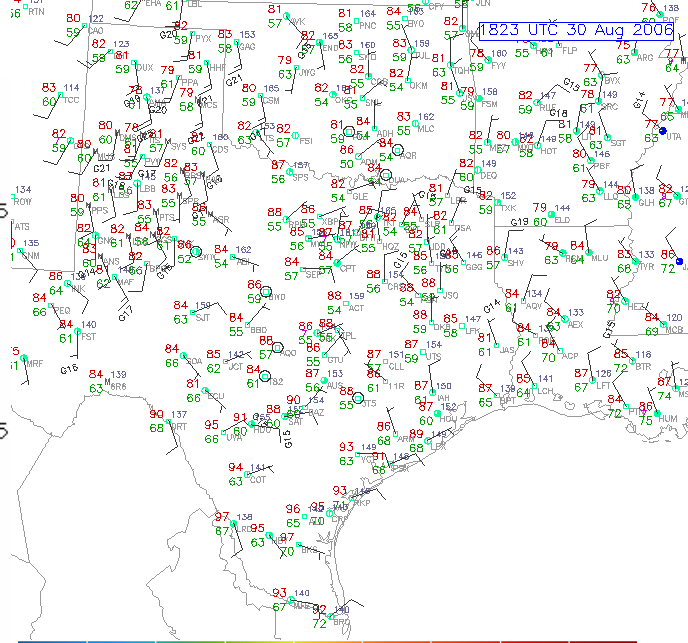
2006 Aug 24

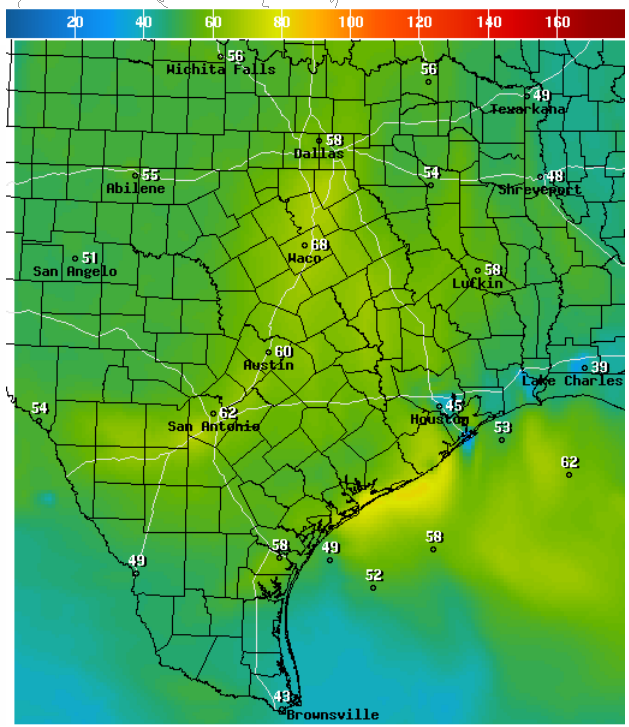


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 30



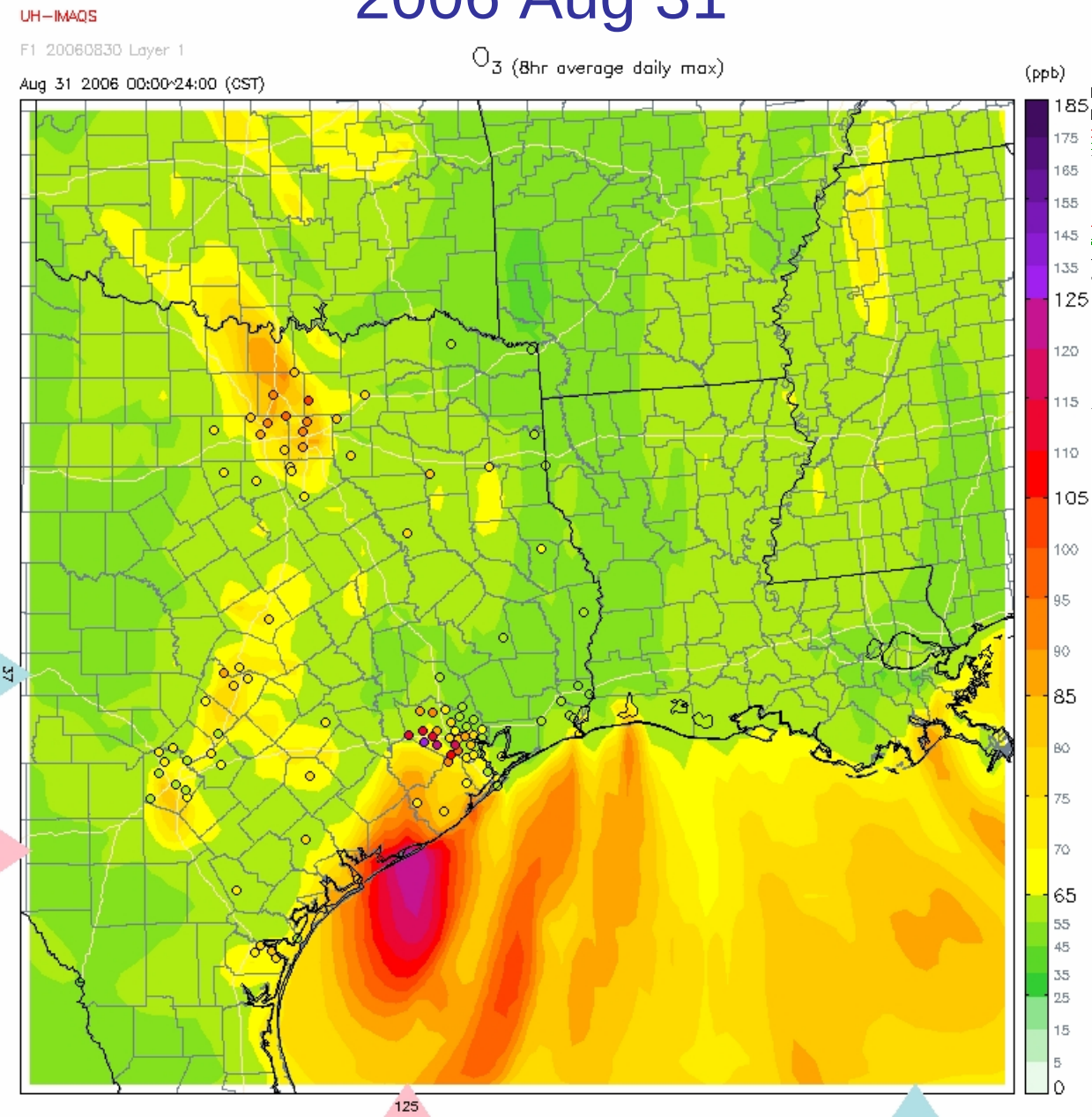


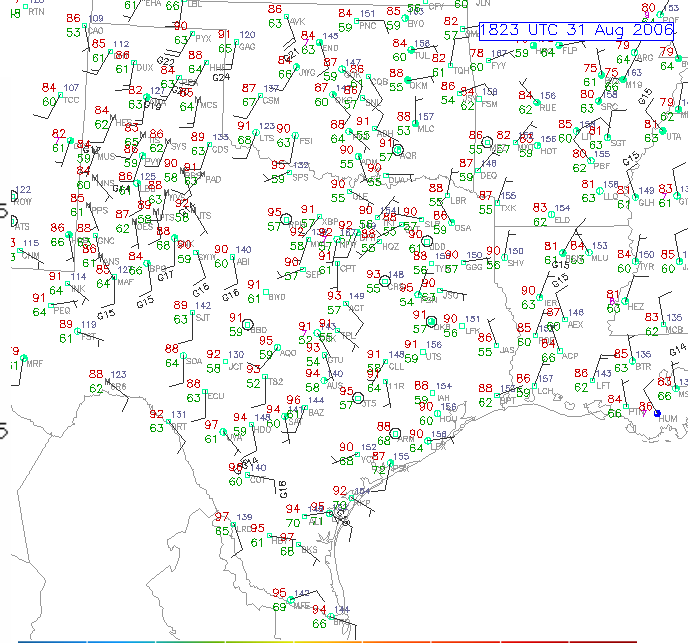


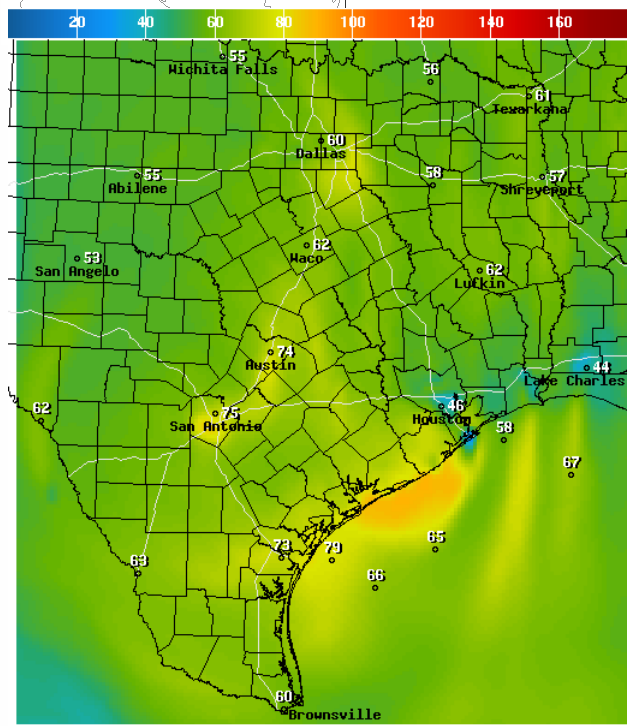
8Hr Avg Ozone Concentration(PPB) Ending Wed Aug 30 2006 9PM EDT
(Thu Aug 31 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 30 7:26AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Aug 31



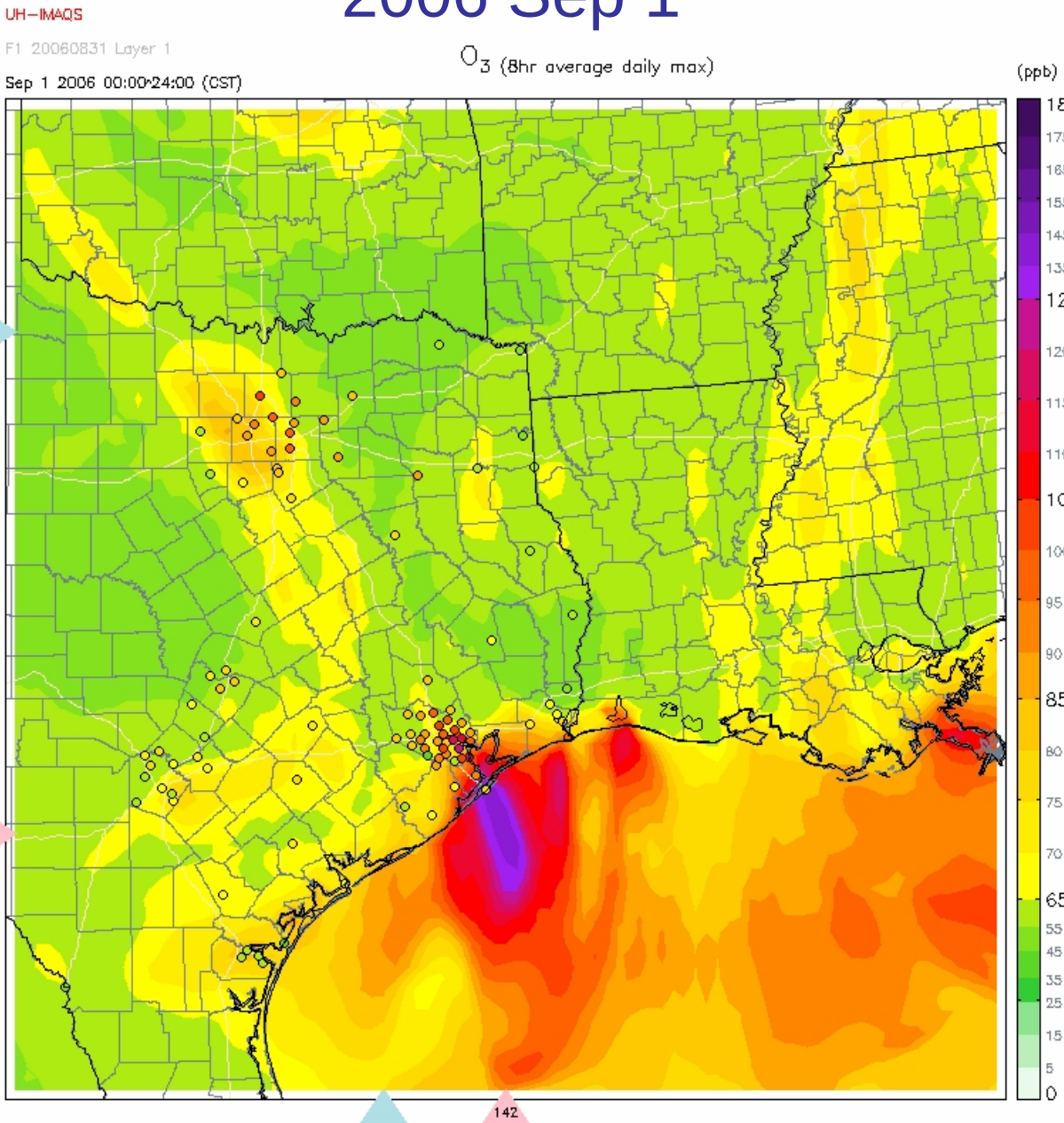


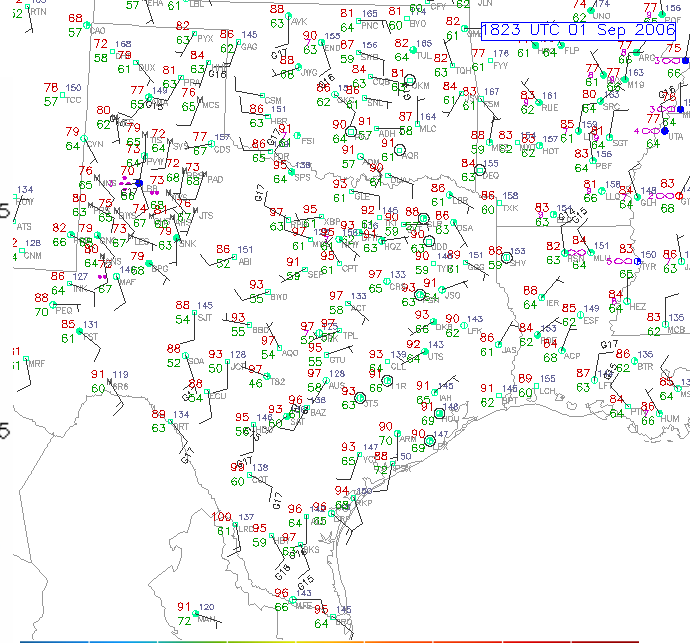


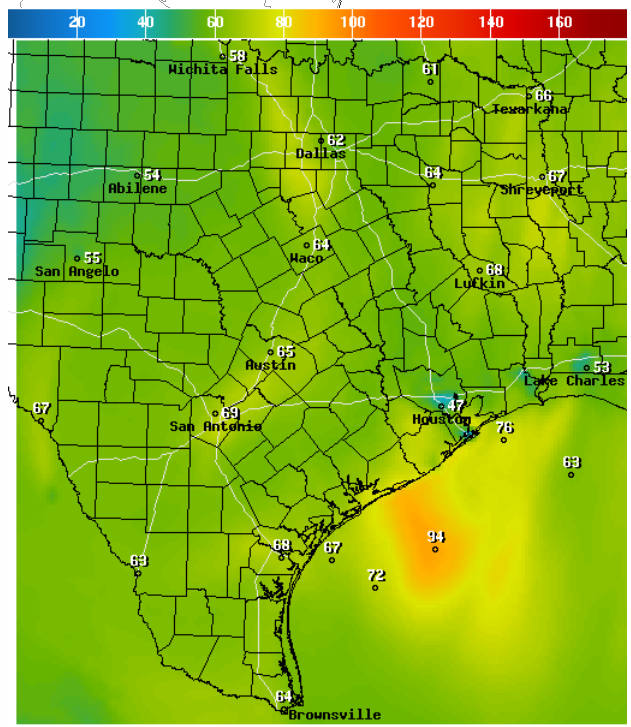
8Hr Avg Ozone Concentration(PPB) Ending Thu Aug 31 2006 9PM EDT
(Fri Sep 01 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Aug 31 7:26AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 1



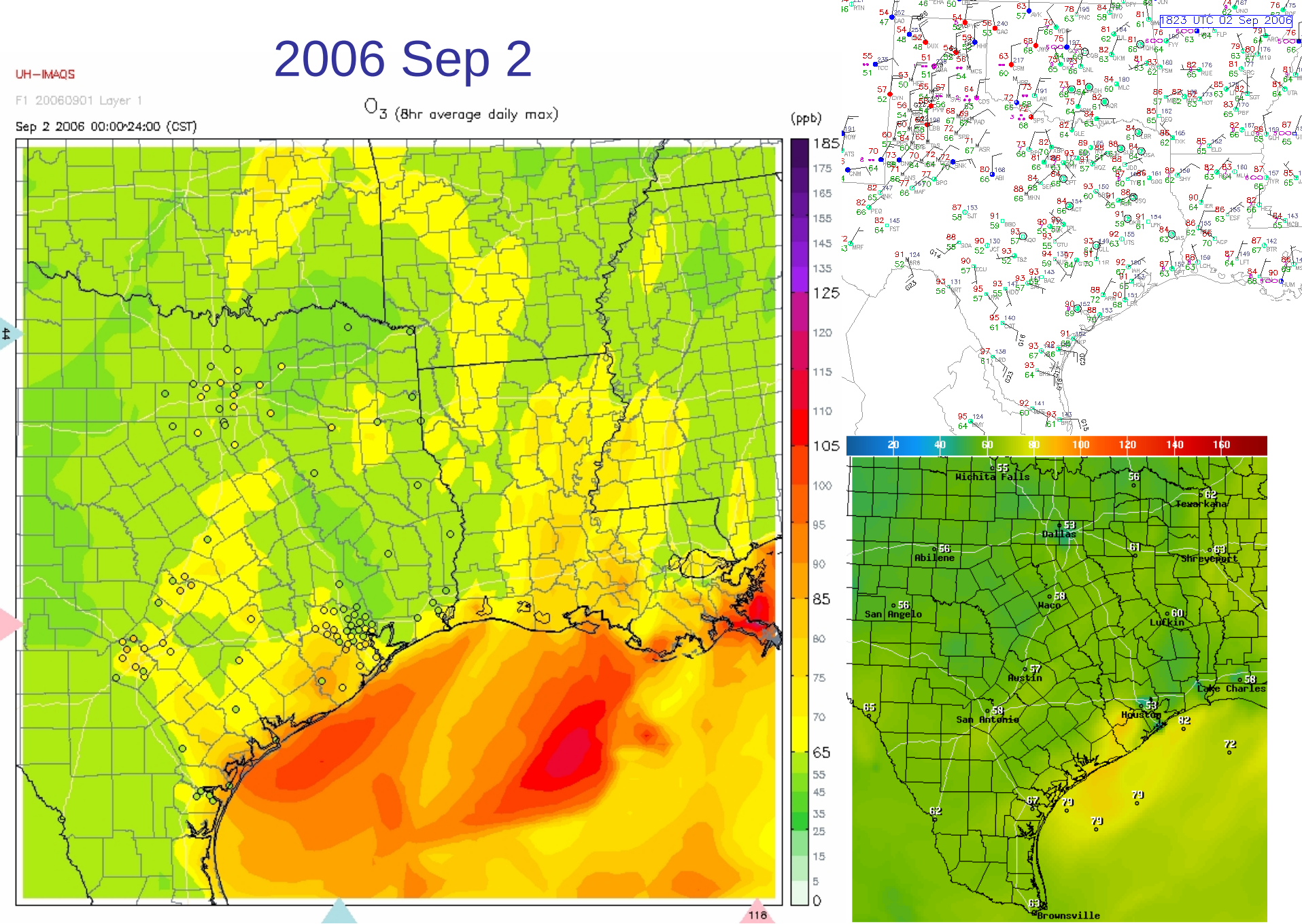




8Hr Avg Ozone Concentration(PPB) Ending Fri Sep 01 2006 9PM EDT
(Sat Sep 02 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Sep 01 7:27AM EDT

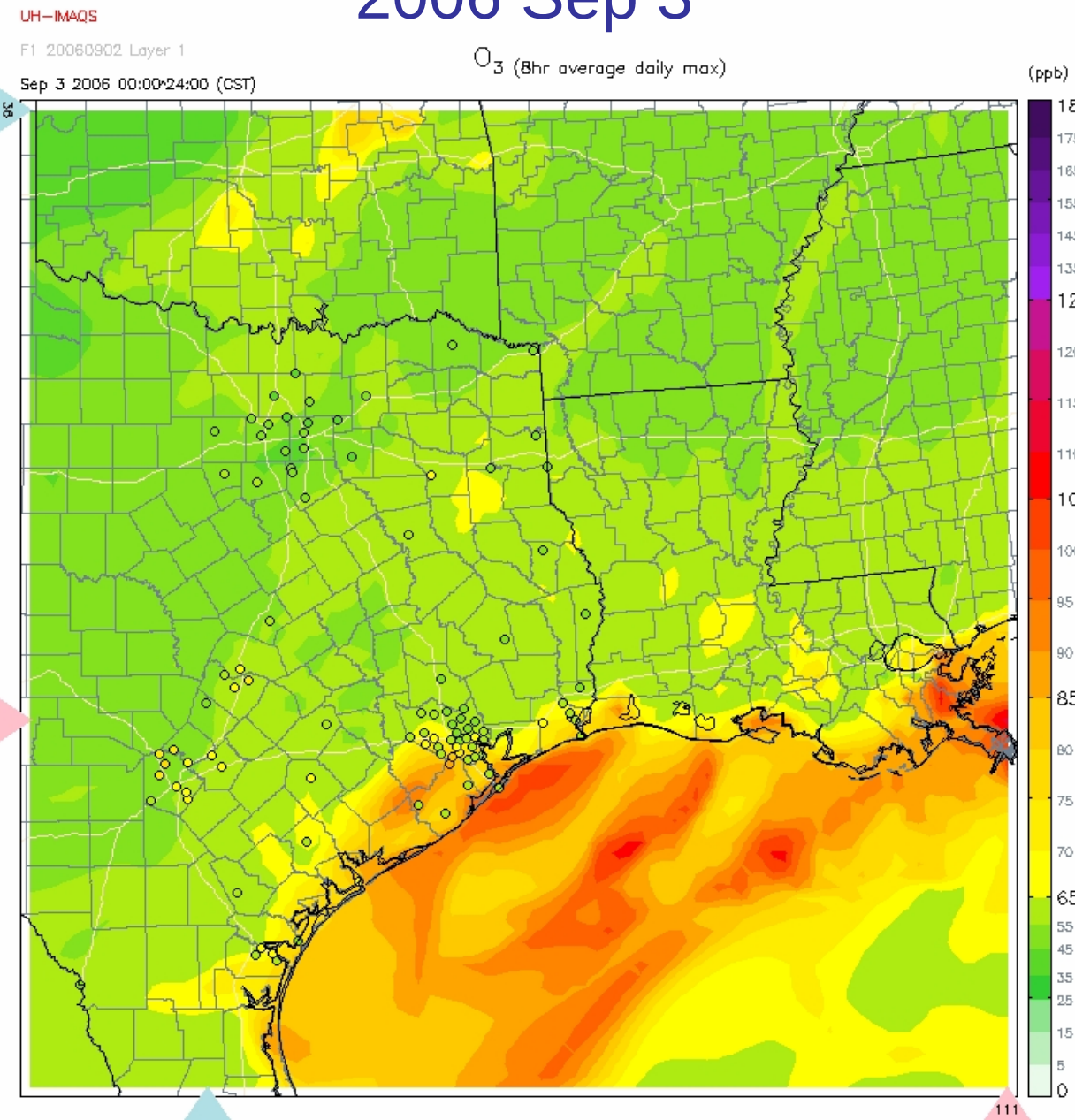
UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

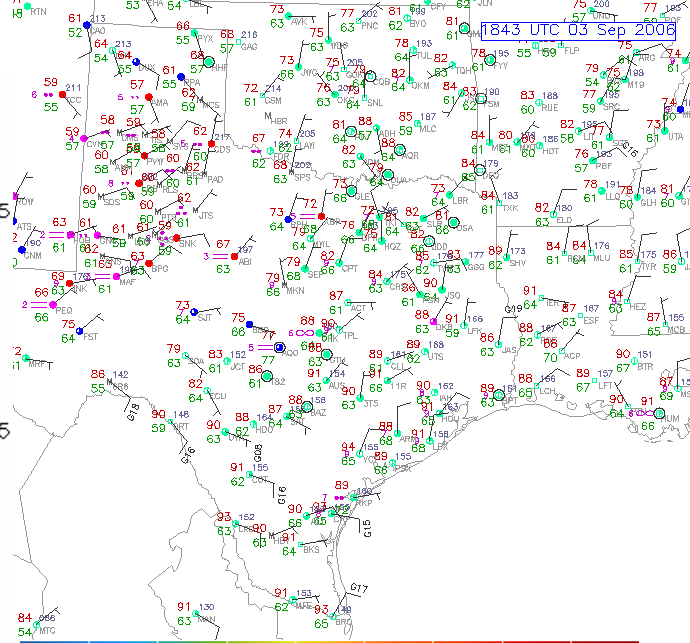
2006 Sep 2

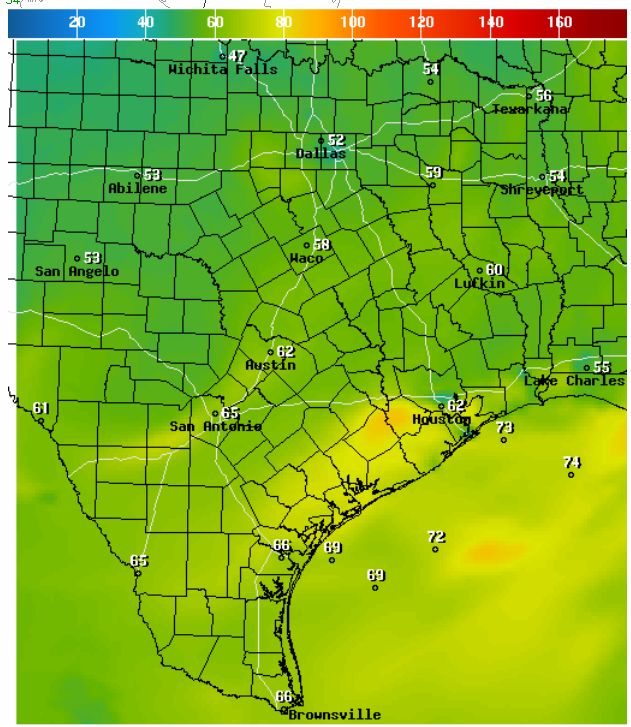


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 3







8Hr Avg Ozone Concentration(PPB) Ending Sun Sep 03 2006 9PM EDT

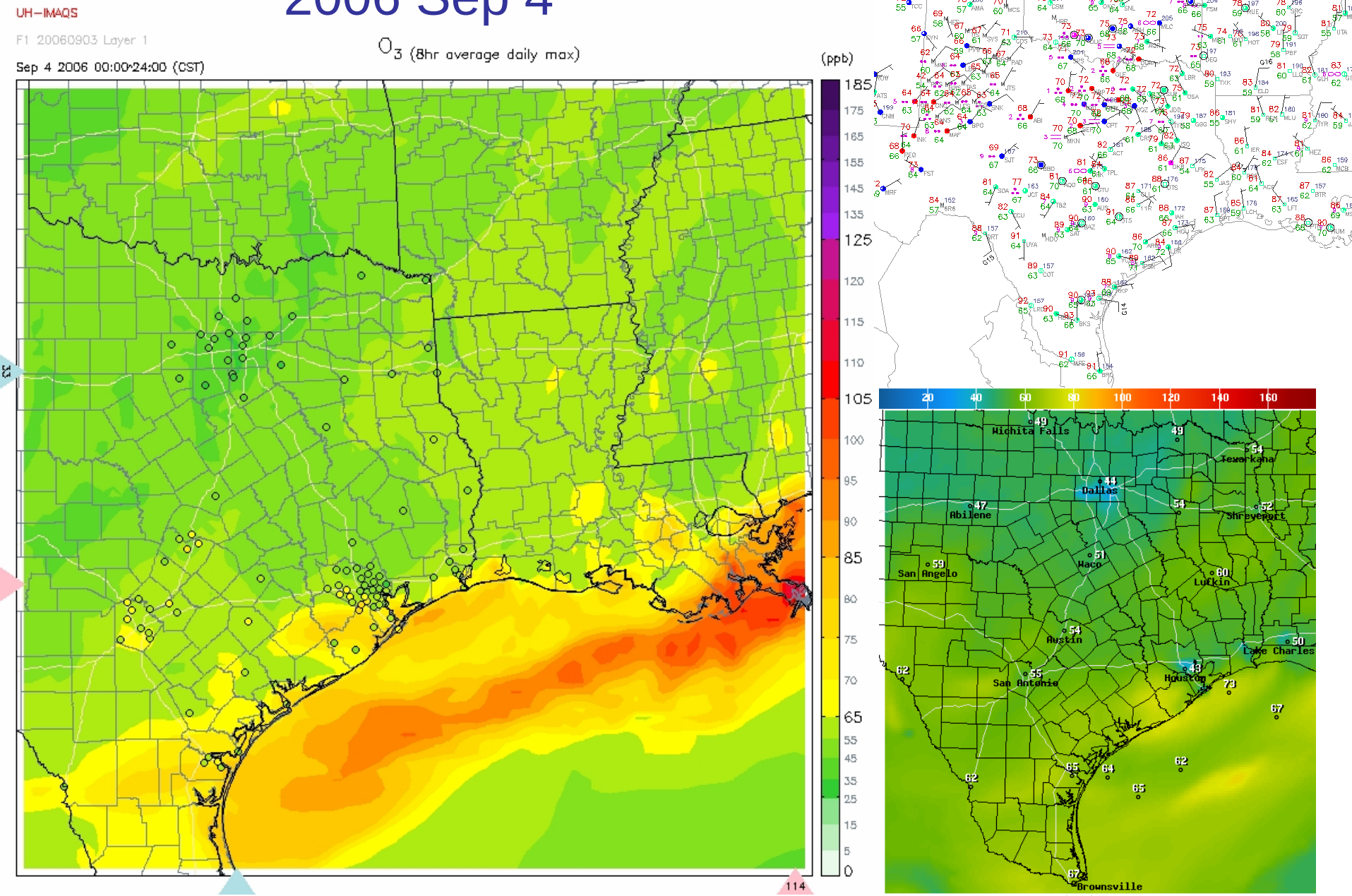
(Mon Sep 04 2006 01Z)

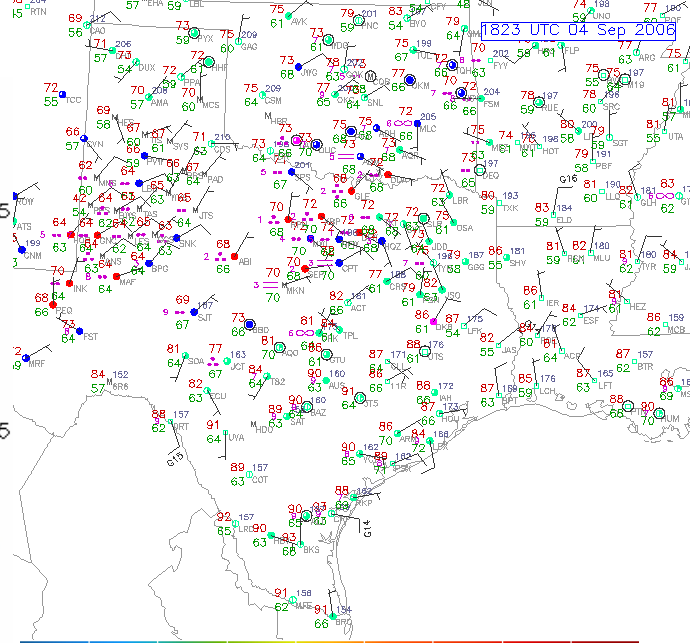
National Digital Guidance Database

06z model run Graphic created-Sep 03 7:26AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 4

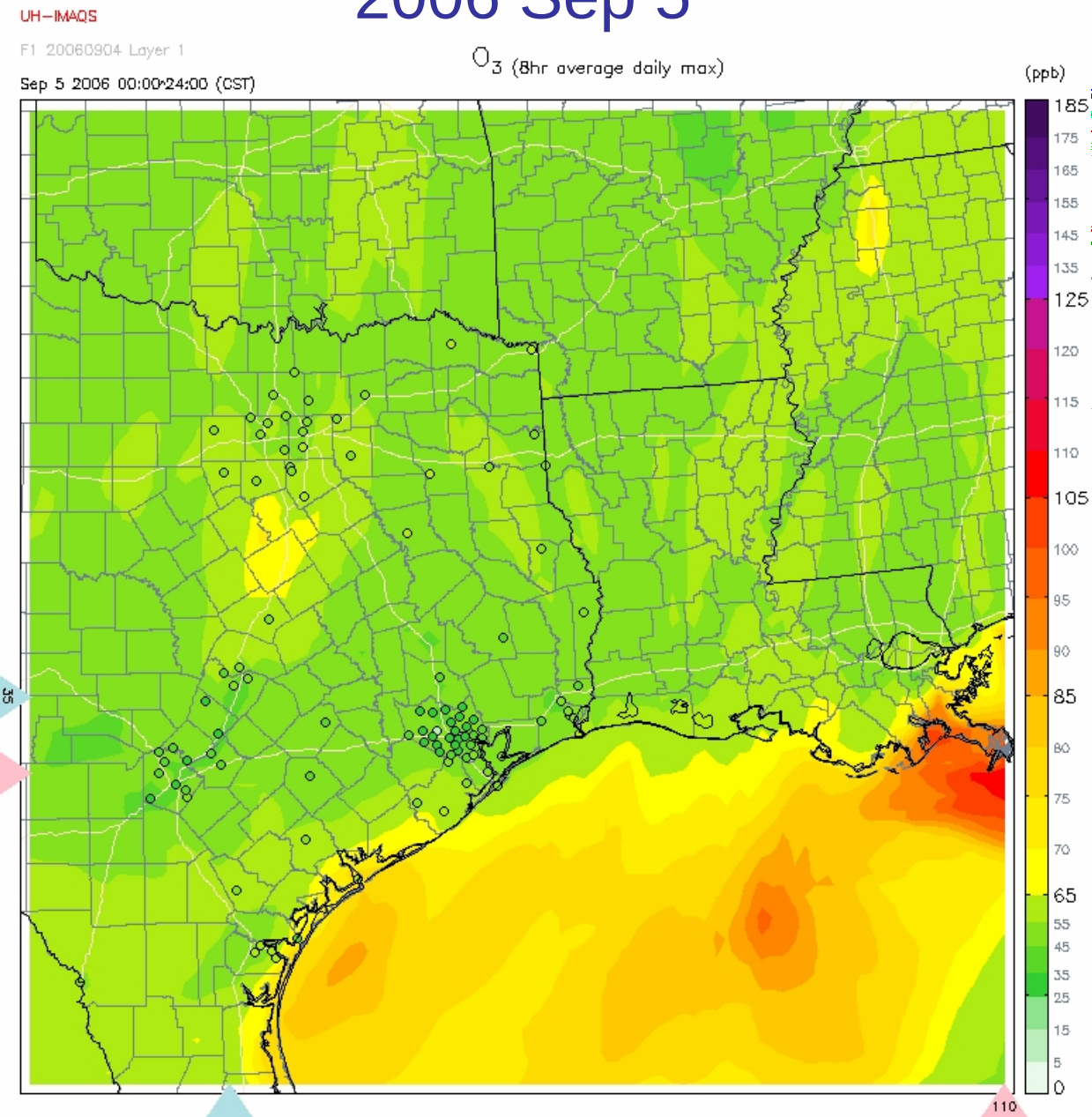


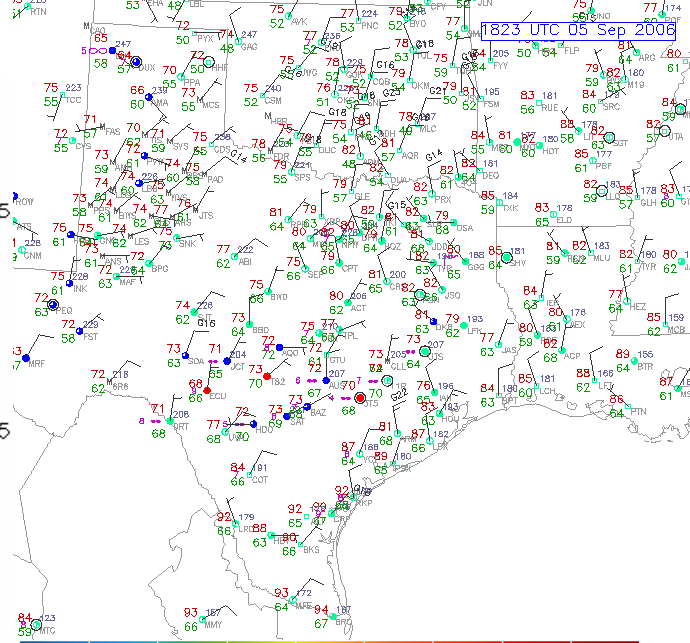


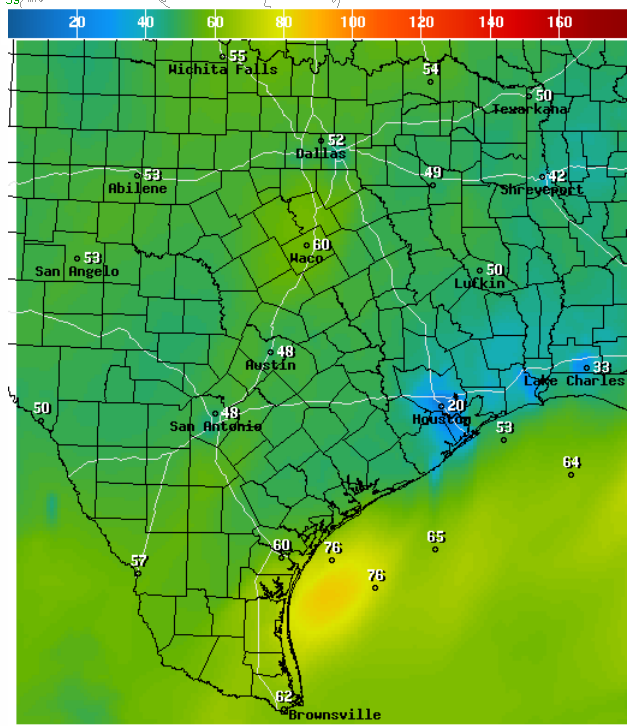
8Hr Avg Ozone Concentration(PPB) Ending Mon Sep 04 2006 9PM EDT
(Tue Sep 05 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Sep 04 7:26AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 5



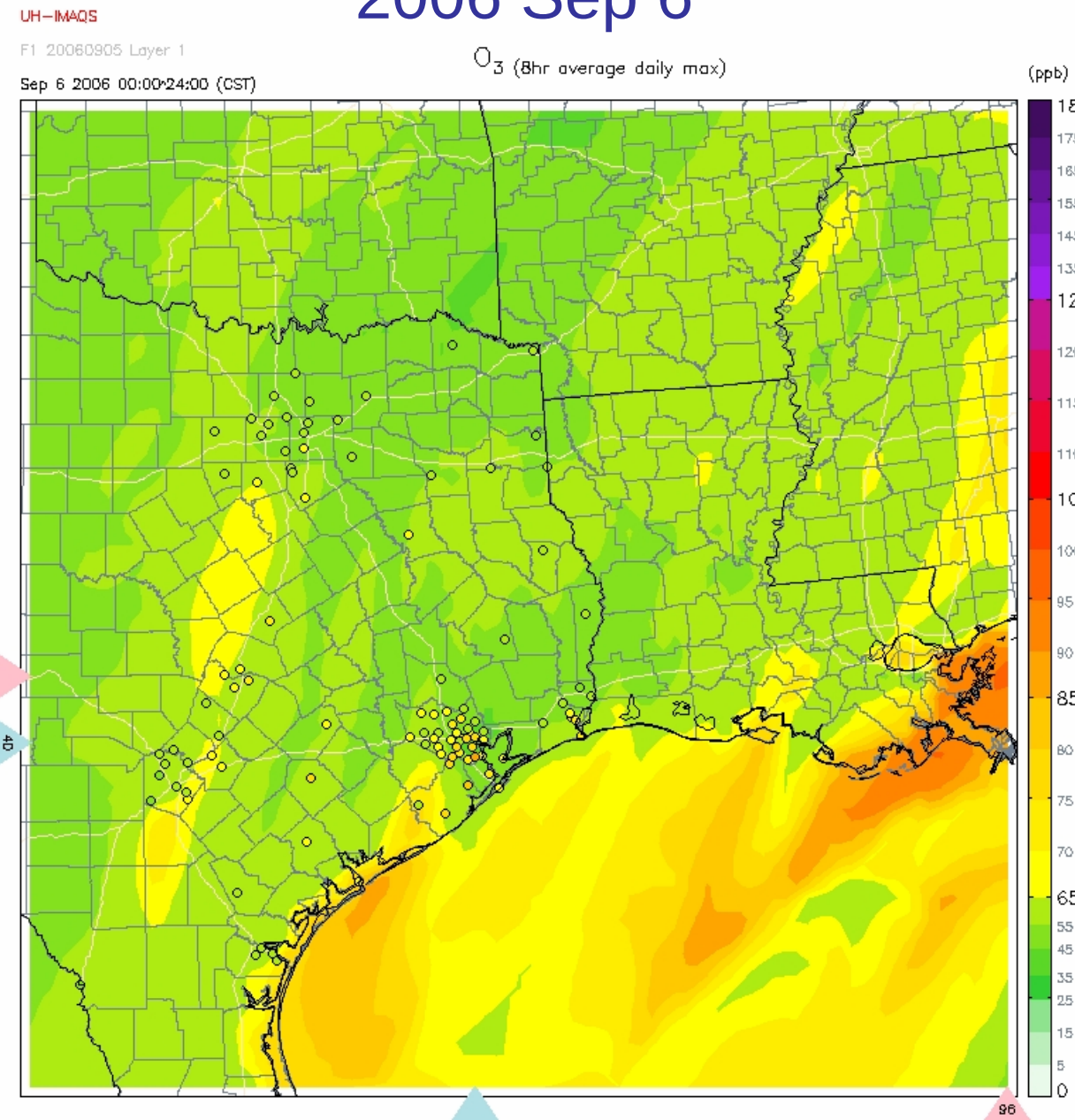


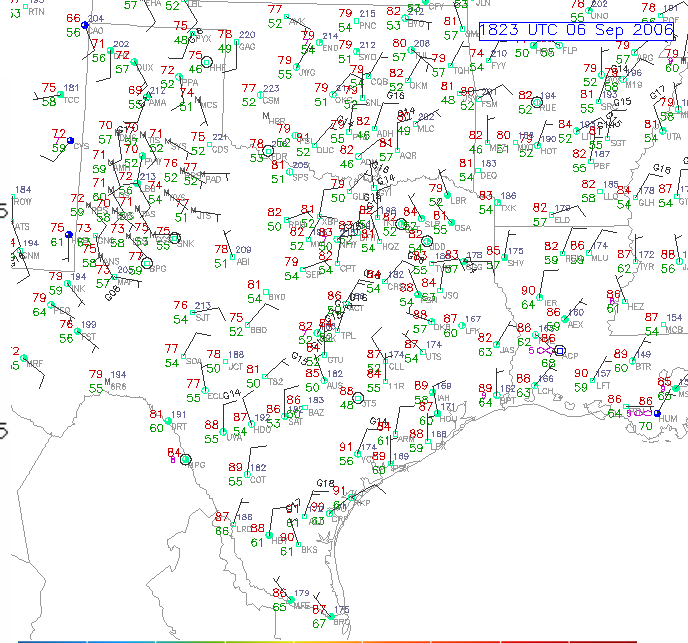


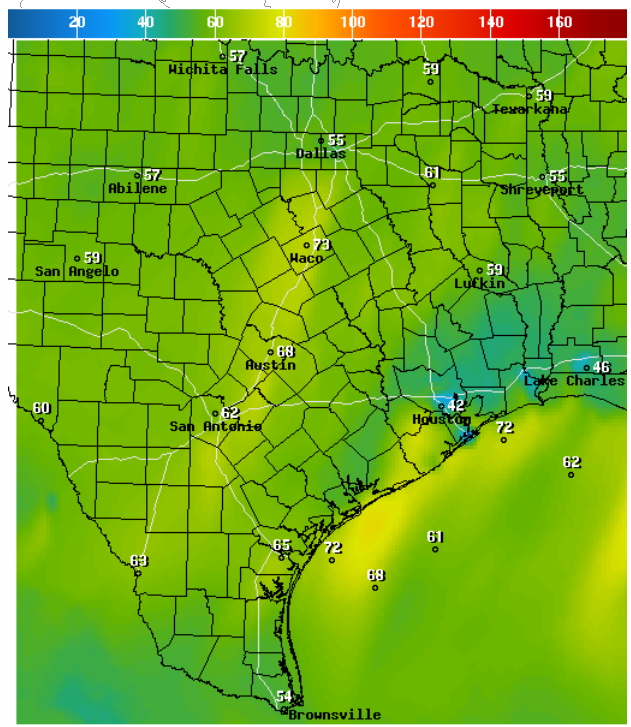
8Hr Avg Ozone Concentration(PPB) Ending Tue Sep 05 2006 9PM EDT
(Wed Sep 06 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Sep 05 7:25AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 6

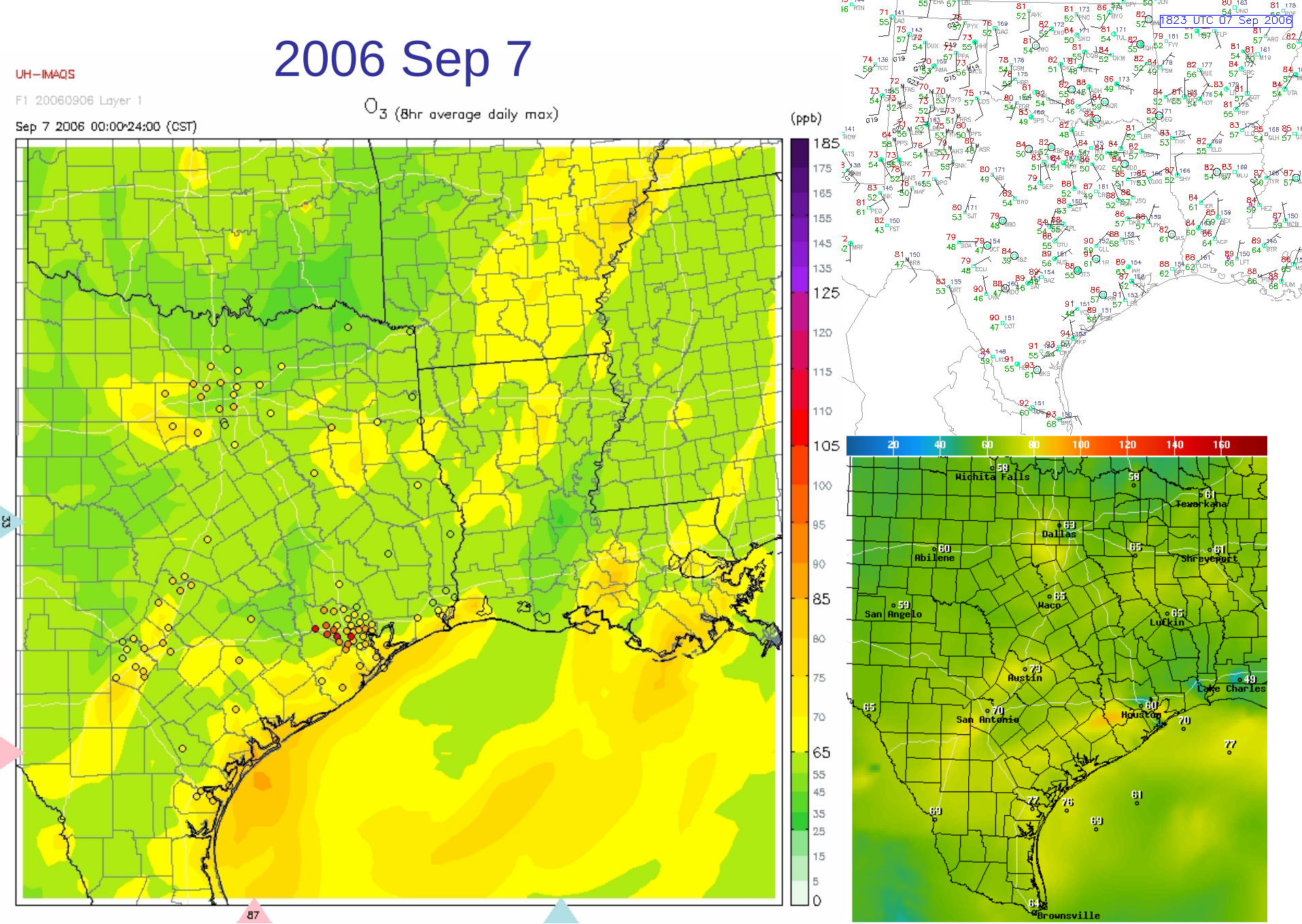






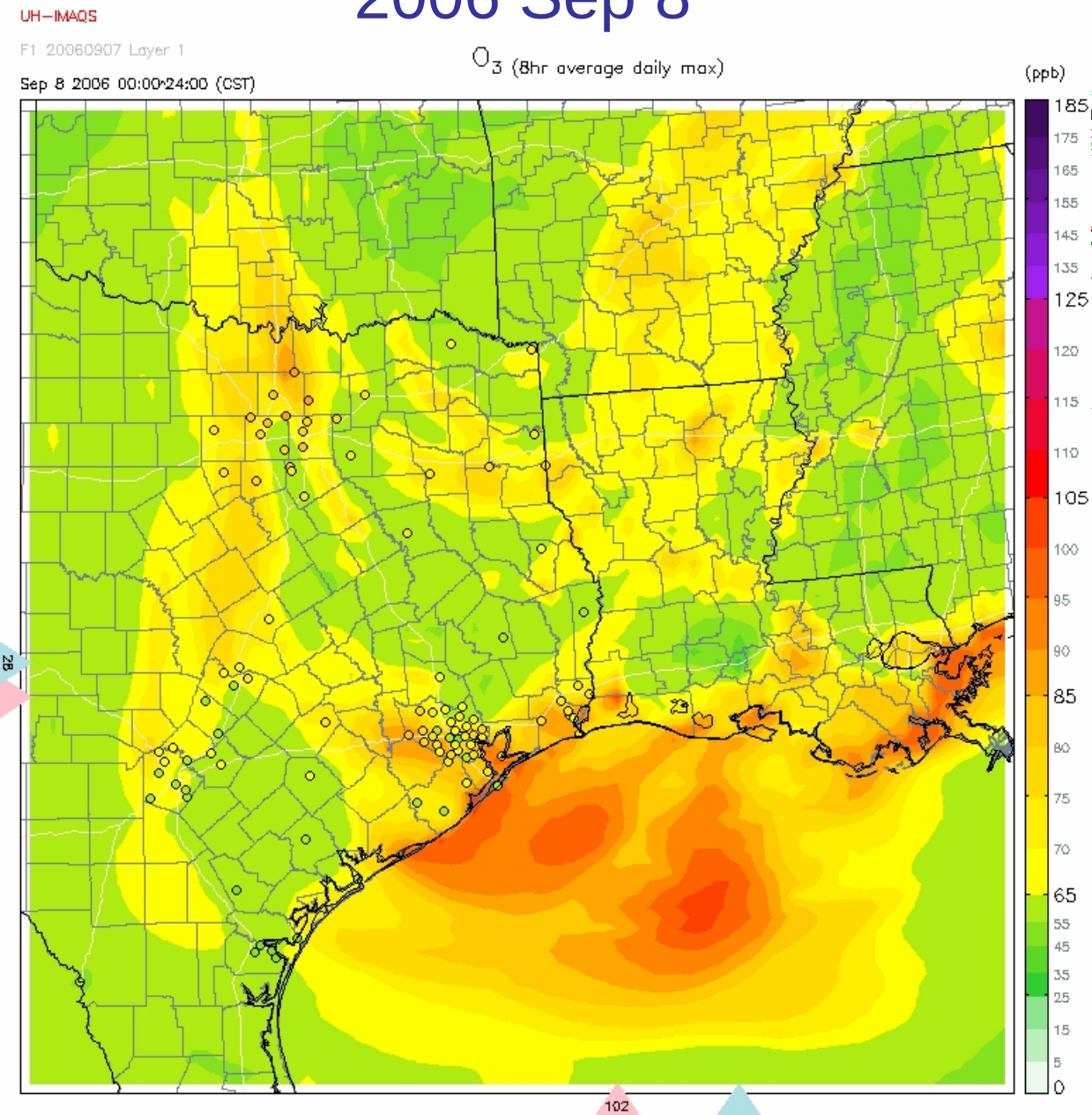
UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

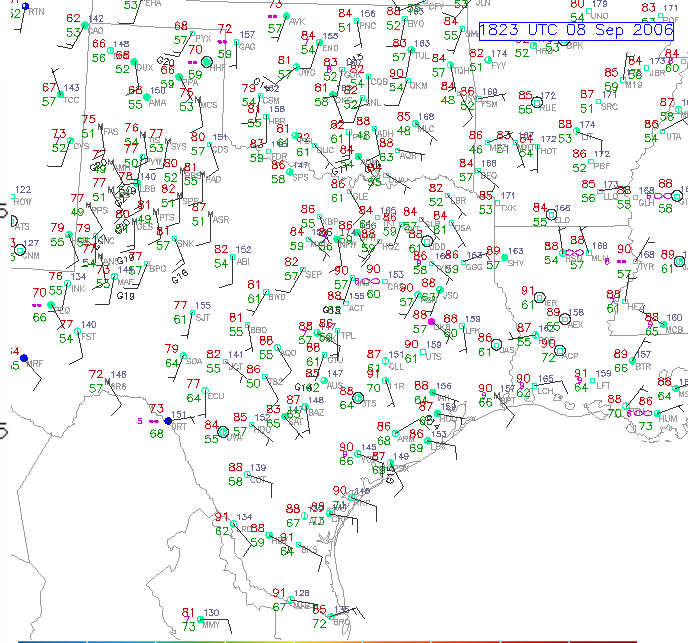
2006 Sep 7

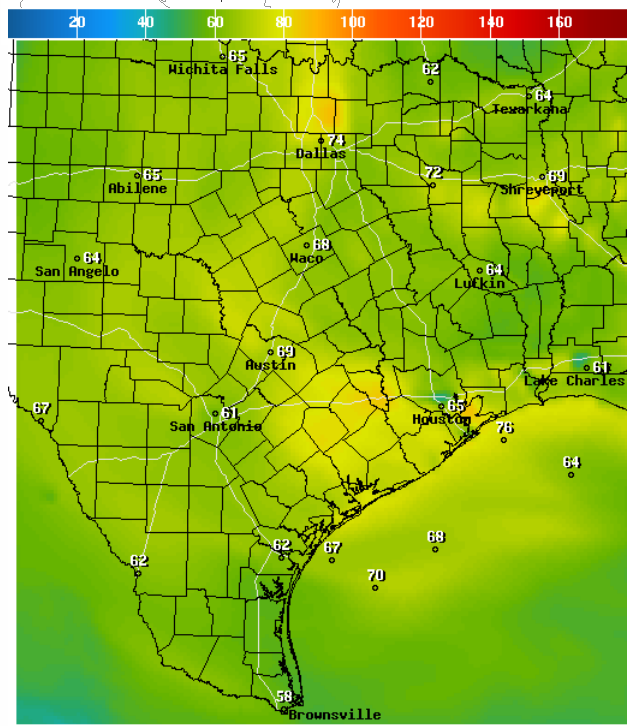


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 8

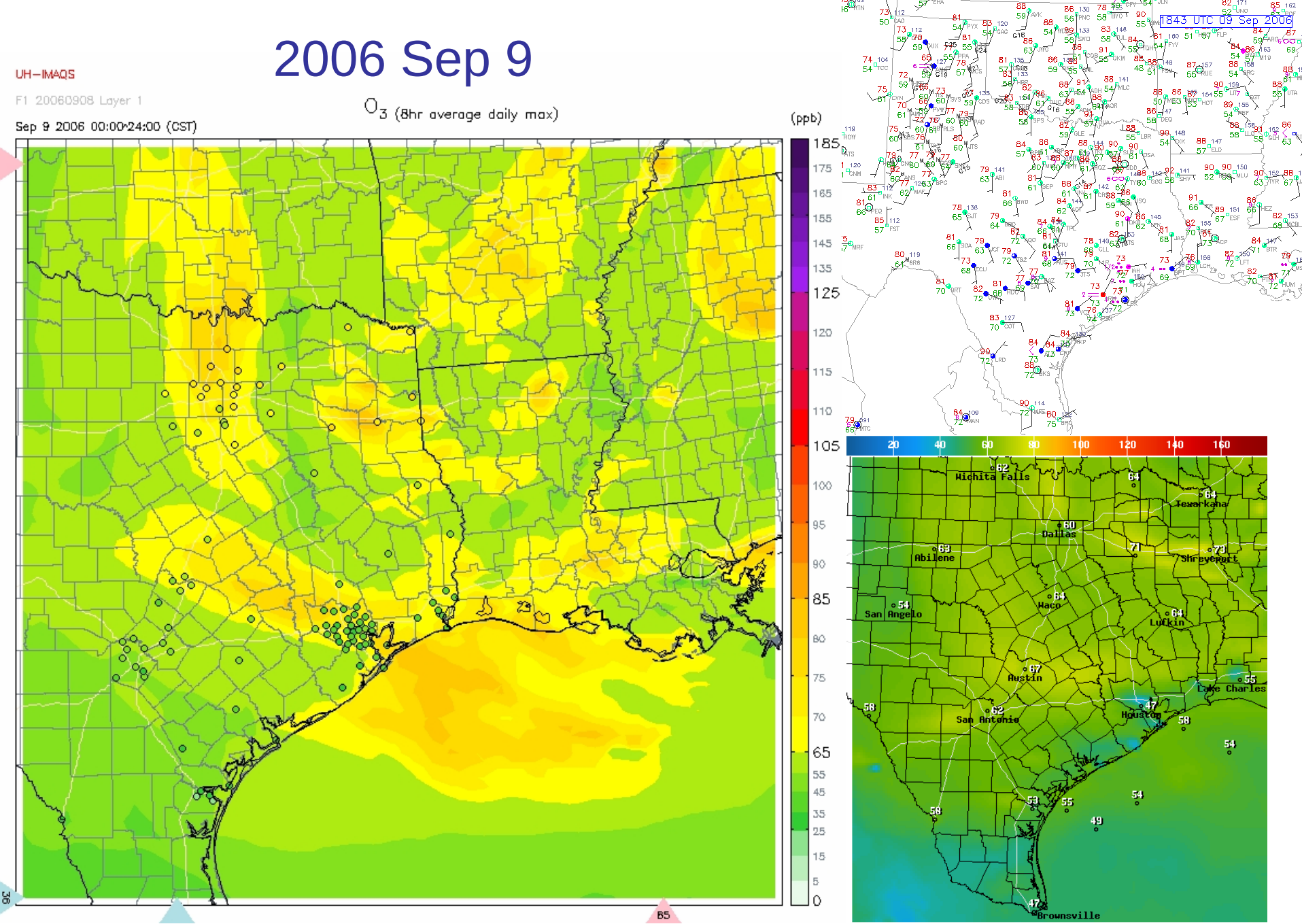






UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

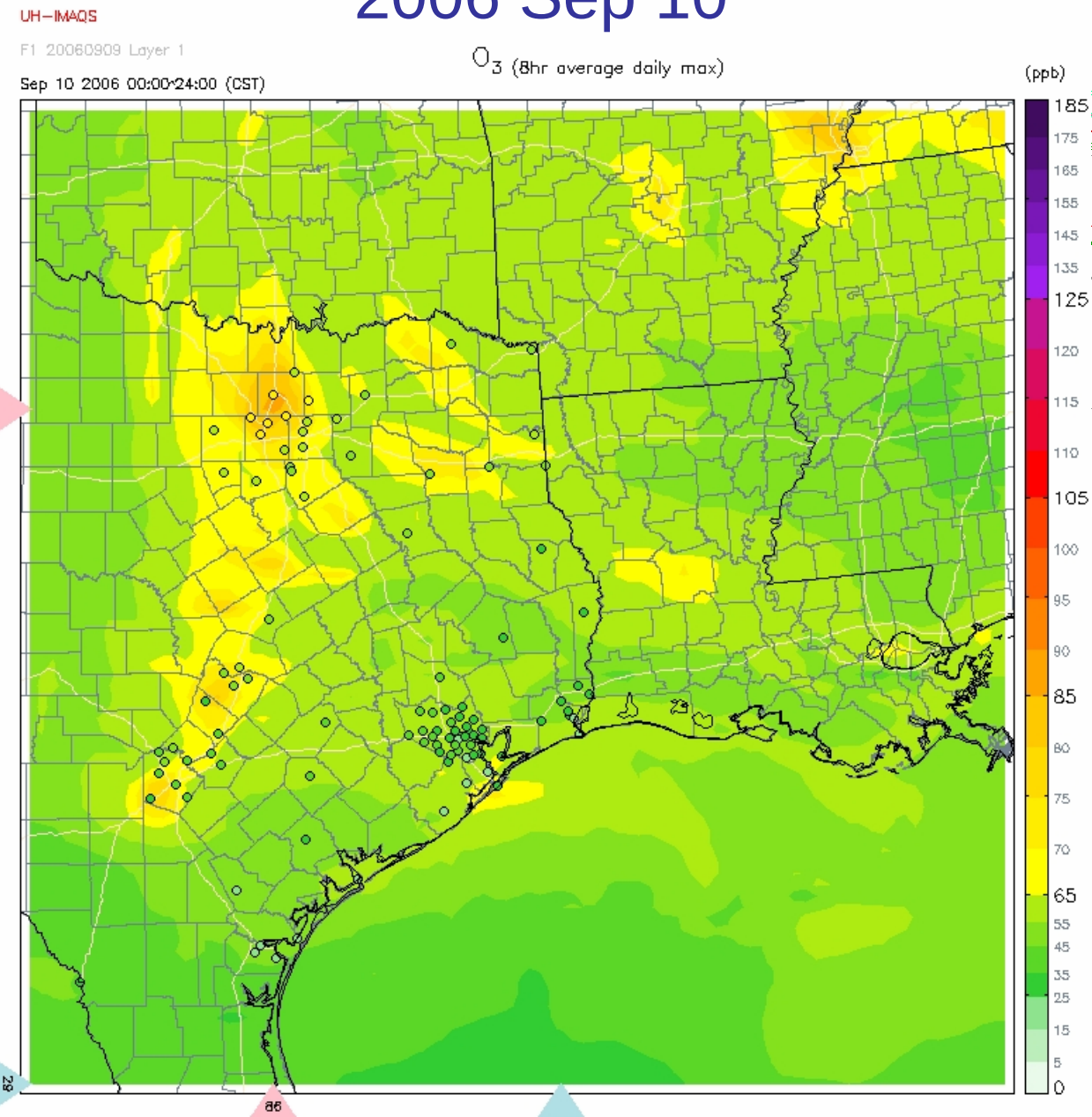
2006 Sep 9

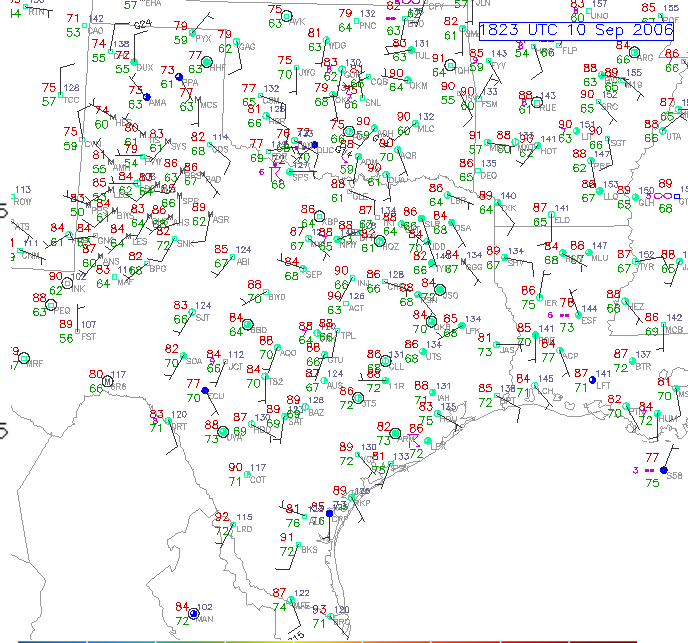


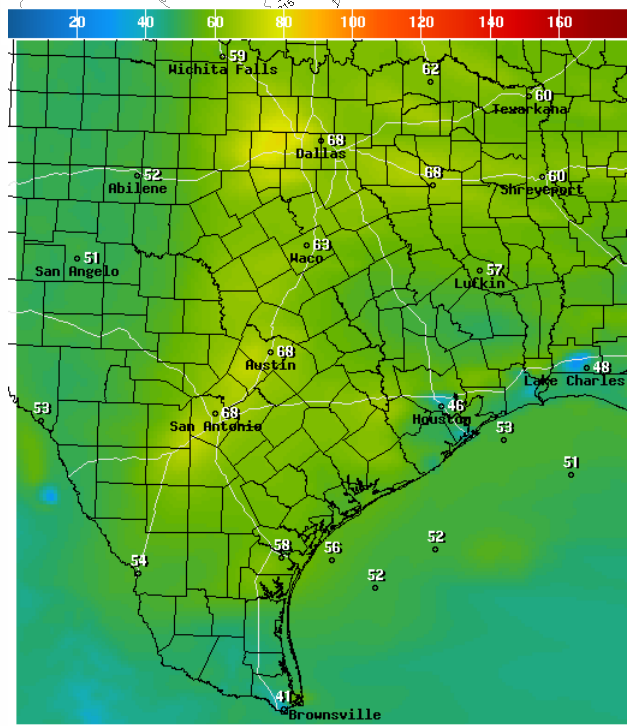
8Hr Avg Ozone Concentration(PPB) Ending Sat Sep 09 2006 9PM EDT
(Sun Sep 10 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Sep 09 7:25AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 10

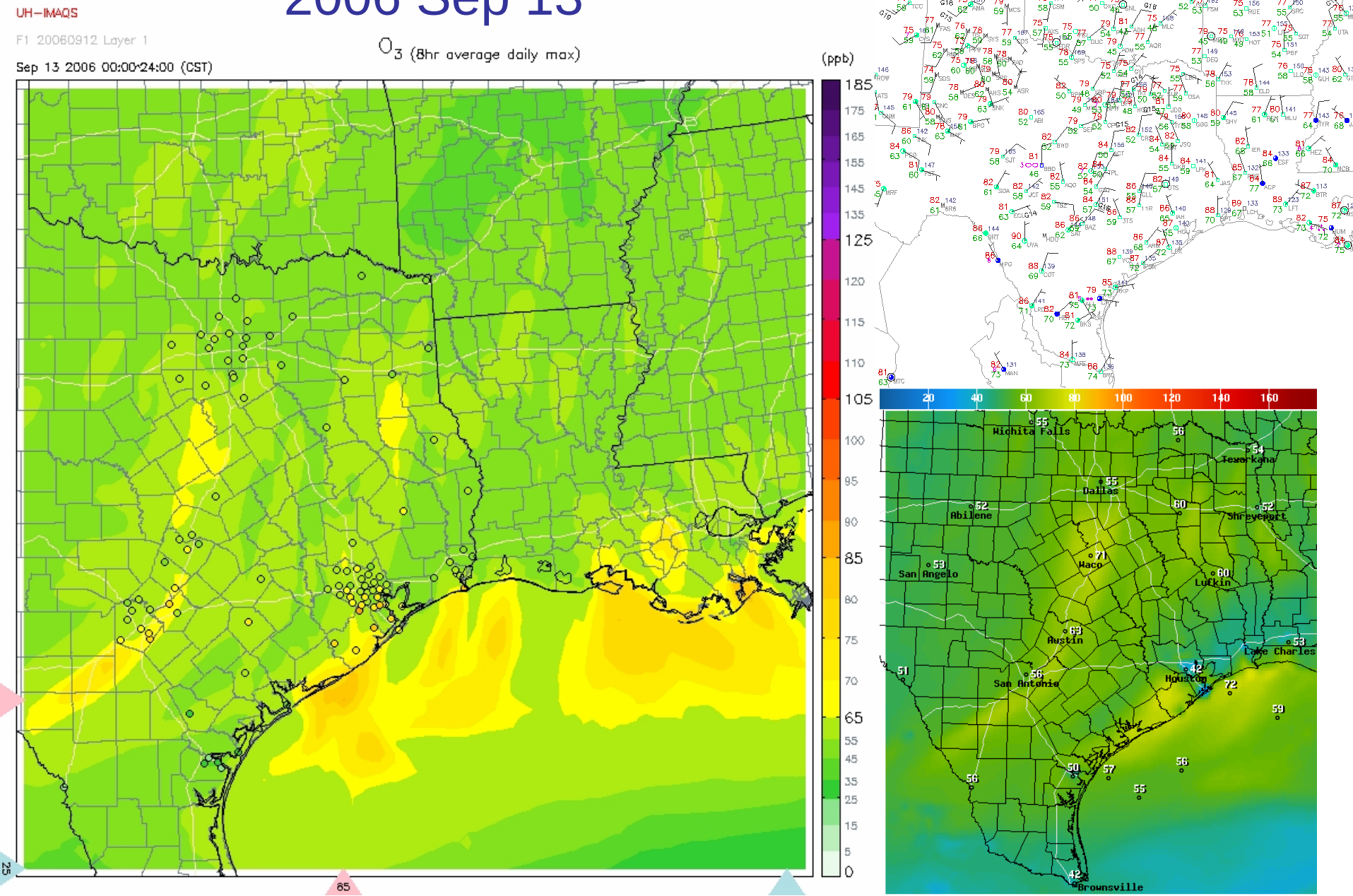


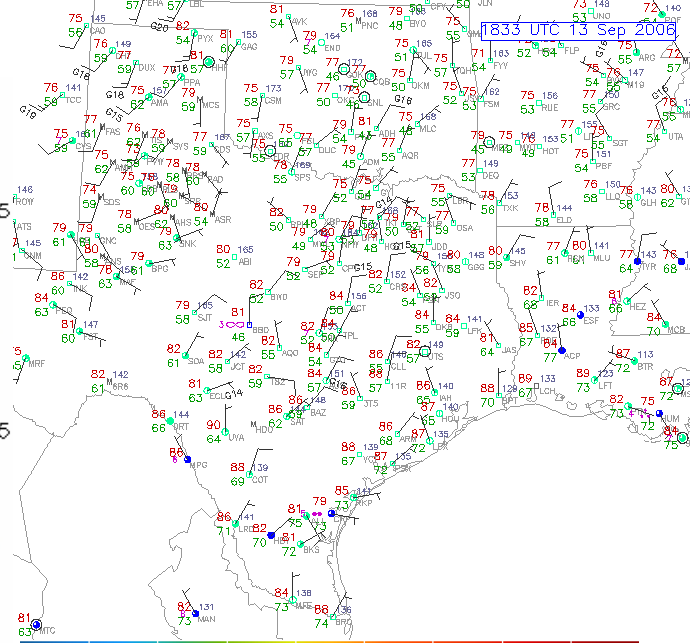




UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 13

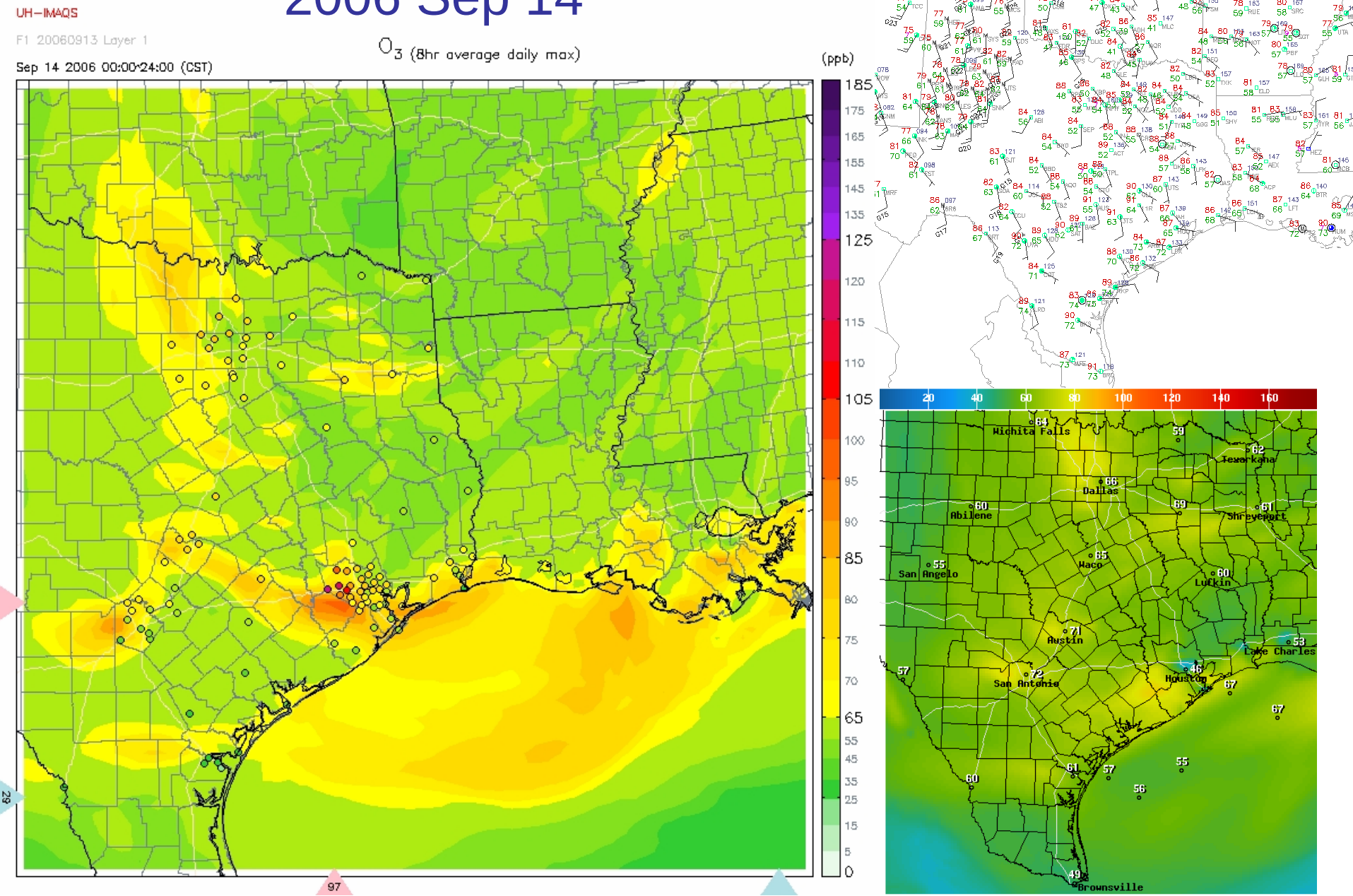


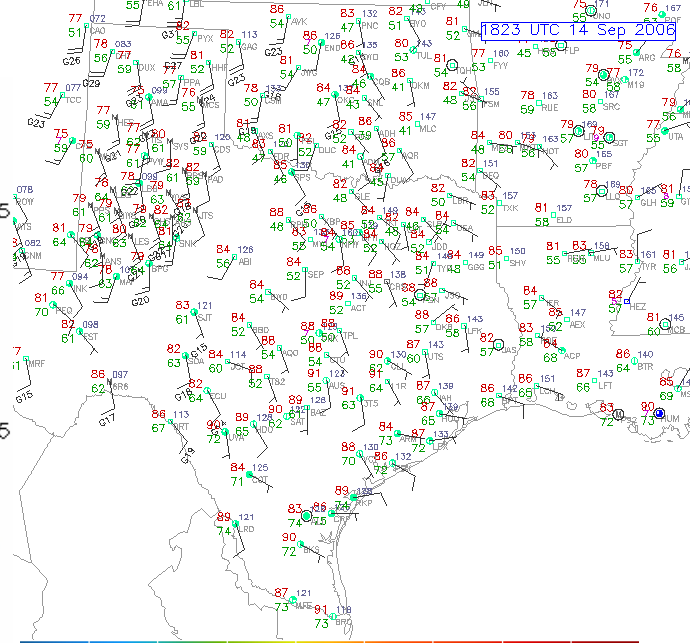


8Hr Avg Ozone Concentration(PPB) Ending Wed Sep 13 2006 9PM EDT
(Thu Sep 14 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Sep 13 7:25AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 14

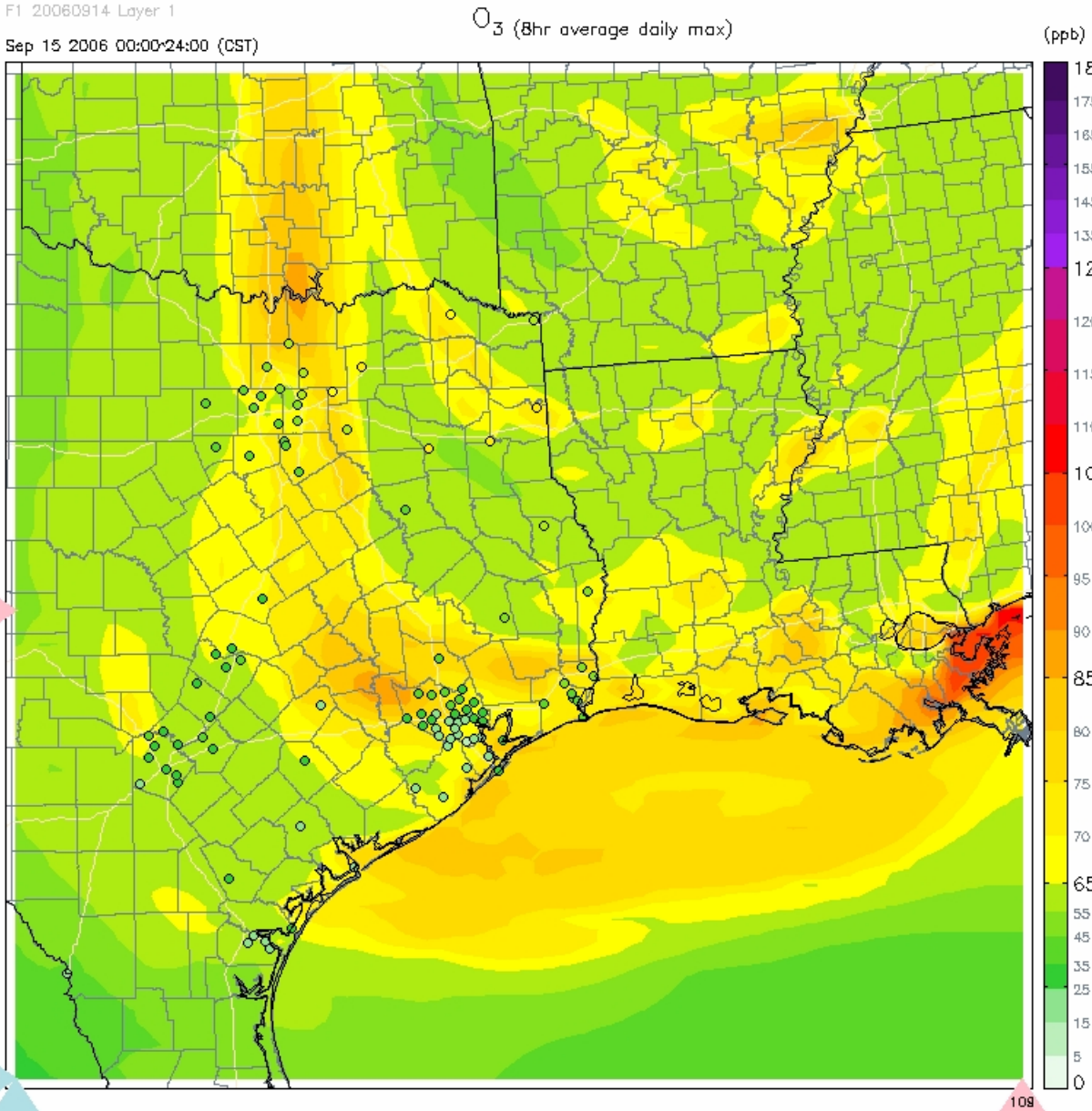


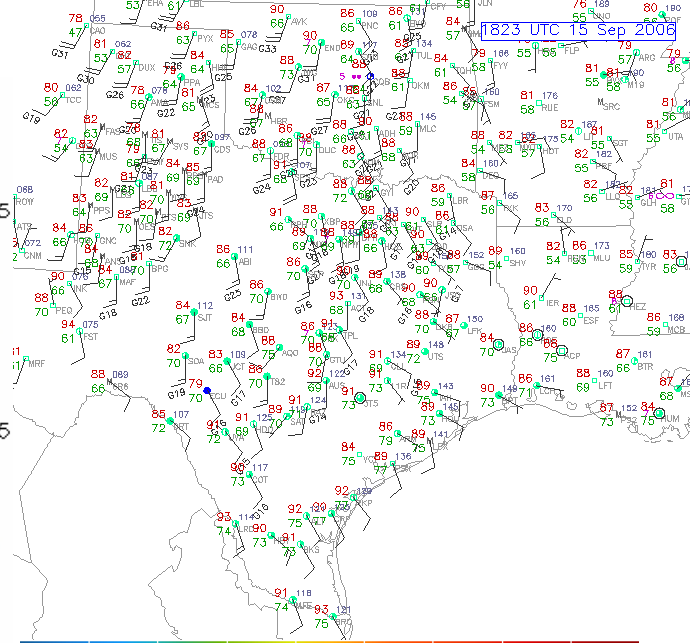


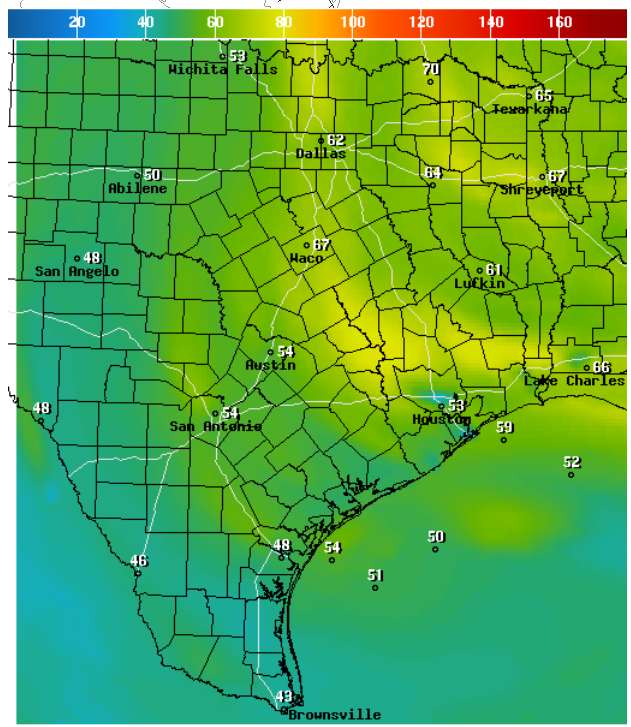
8Hr Avg Ozone Concentration(PPB) Ending Thu Sep 14 2006 9PM EDT
(Fri Sep 15 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Sep 14 7:25AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 15



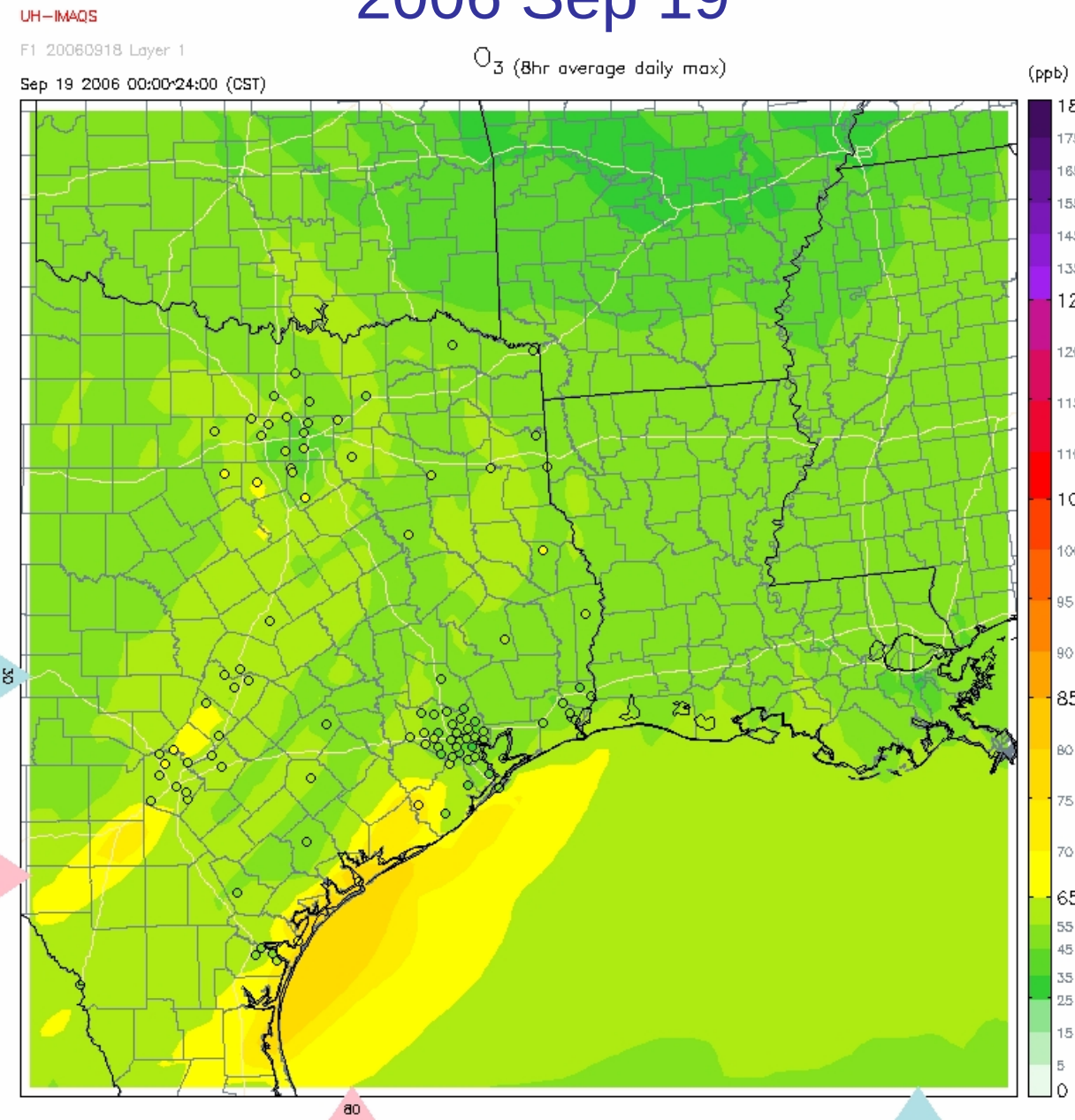


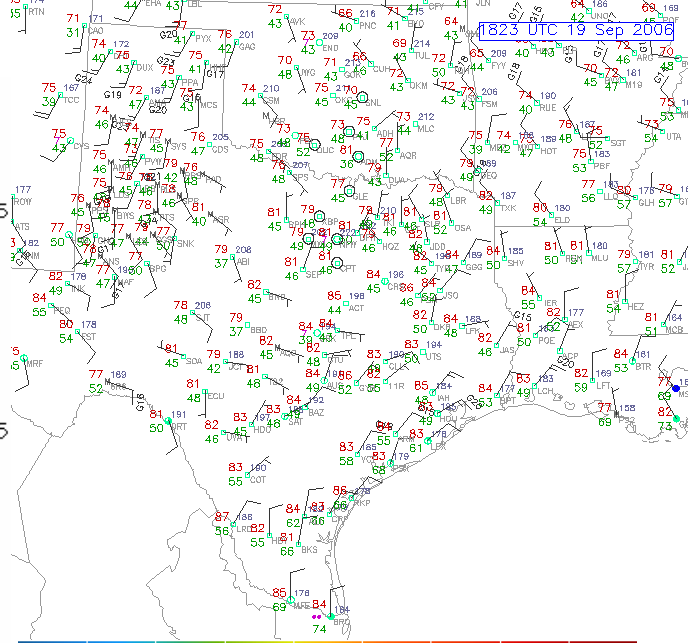


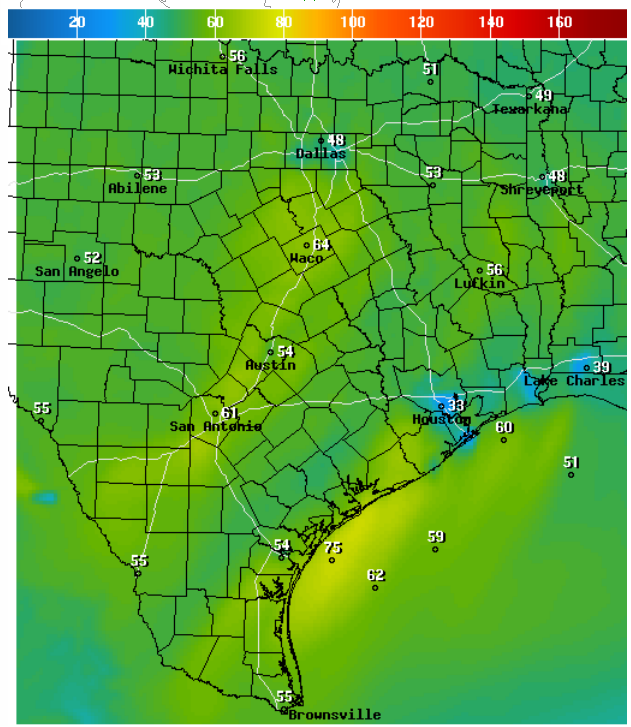
8Hr Avg Ozone Concentration(PPB) Ending Fri Sep 15 2006 9PM EDT
(Sat Sep 16 2006 01Z)
National Digital Guidance Database
06z model run Graphic created-Sep 15 7:25AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 19

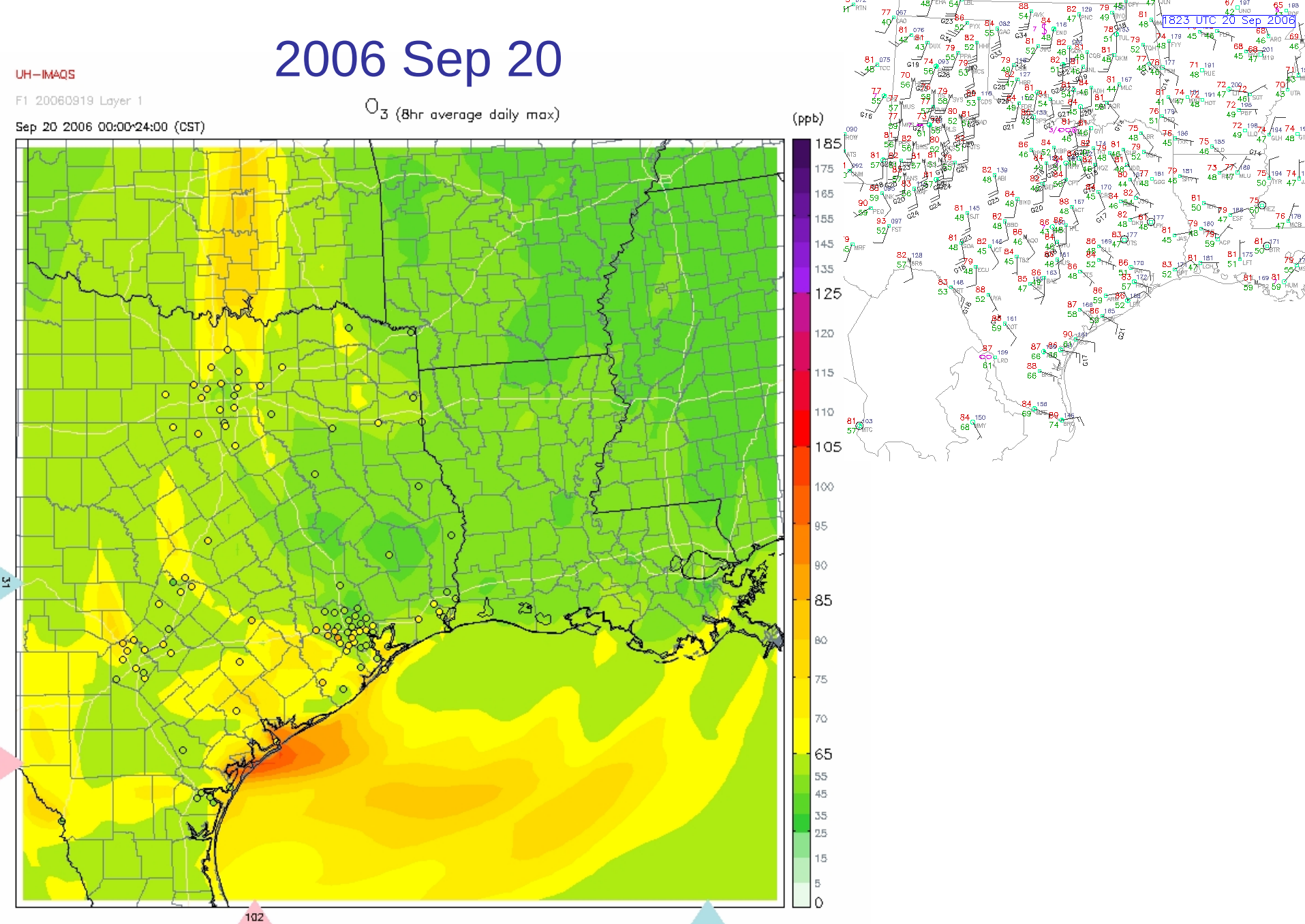






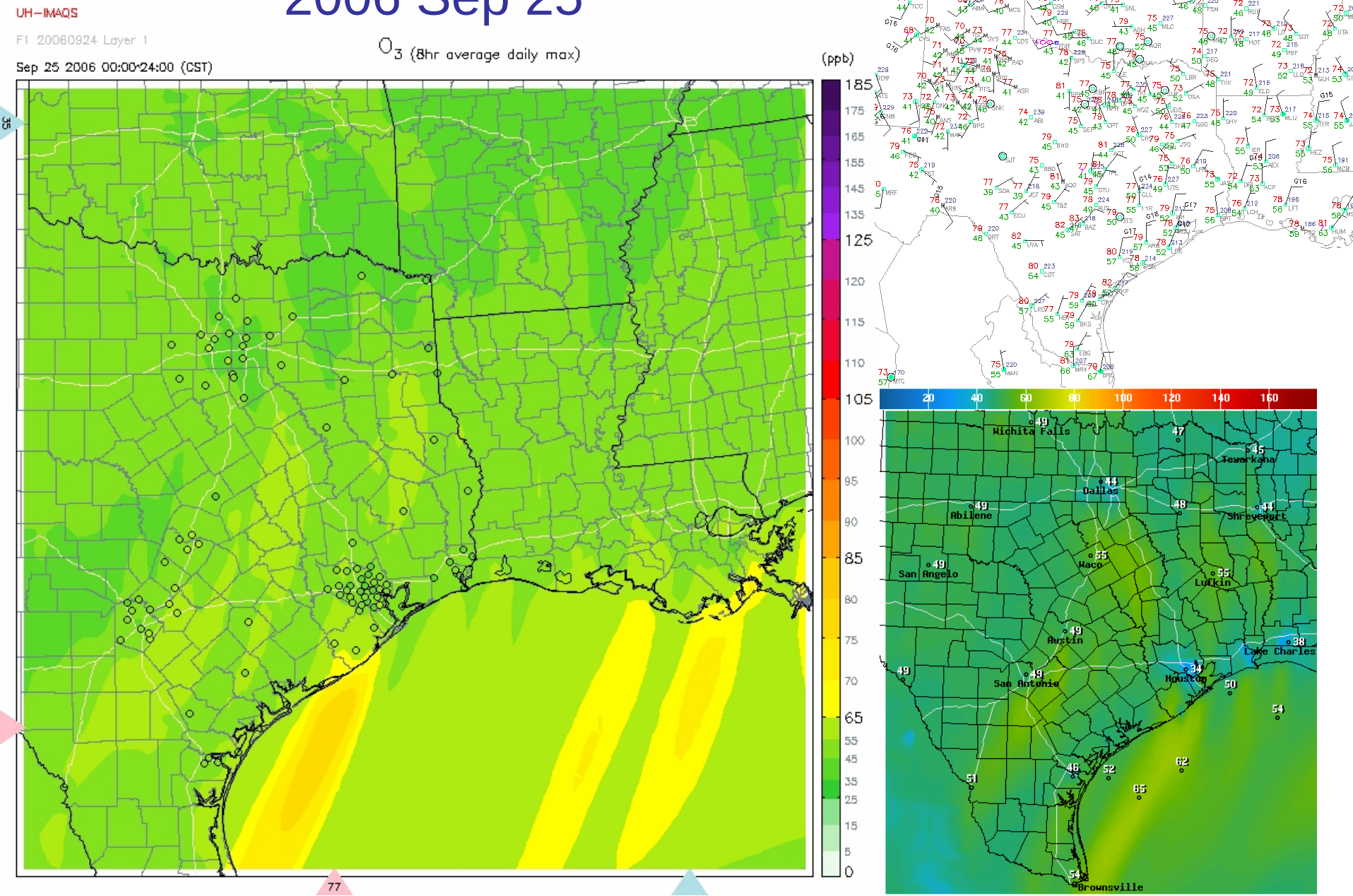
UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

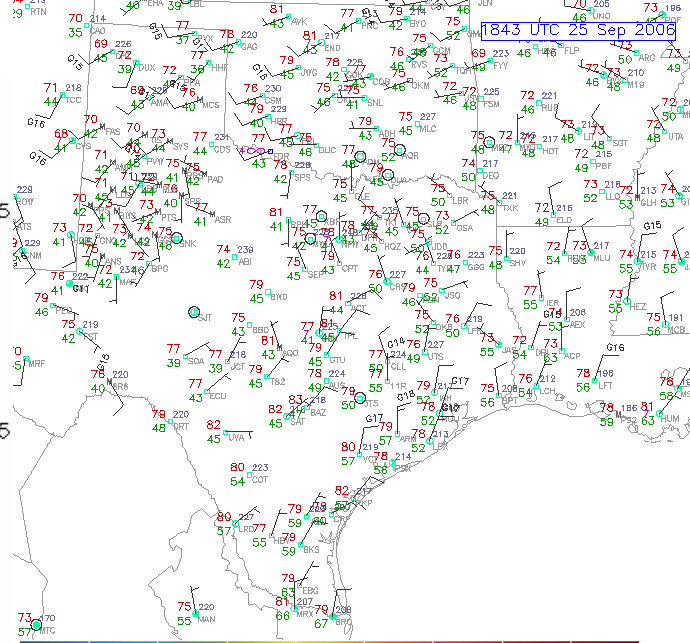
2006 Sep 20



UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 25





8Hr Avg Ozone Concentration(PPB) Ending Mon Sep 25 2006 9PM EDT

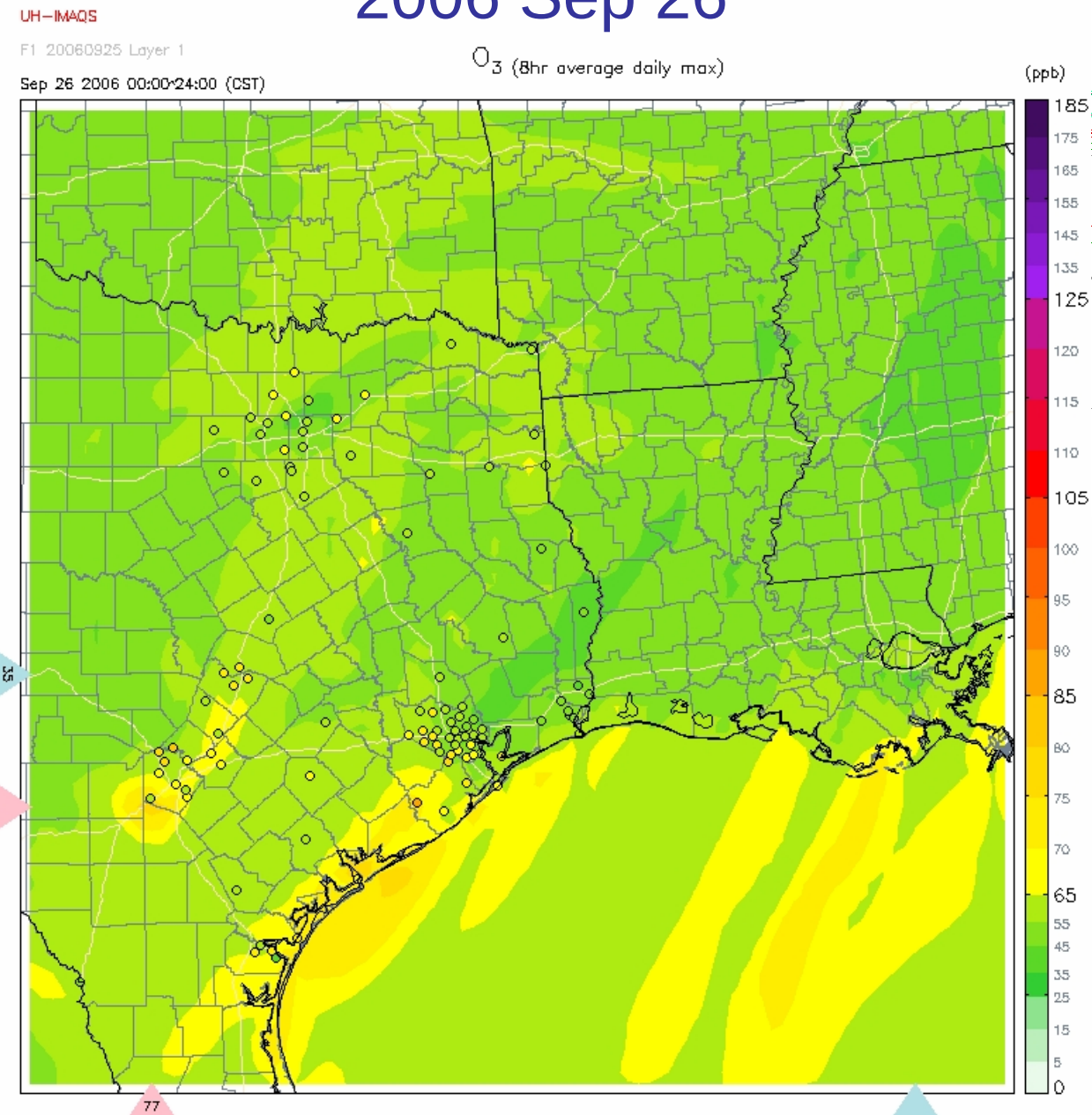
(Tue Sep 26 2006 01Z)

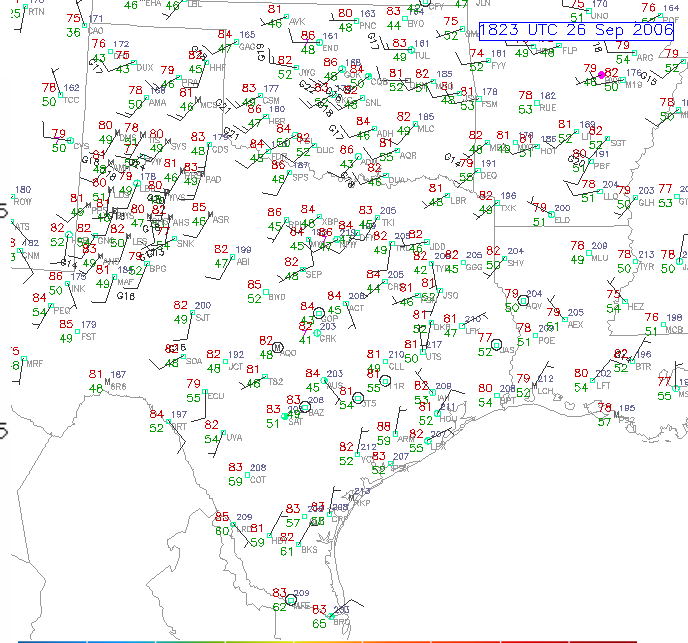
National Digital Guidance Database

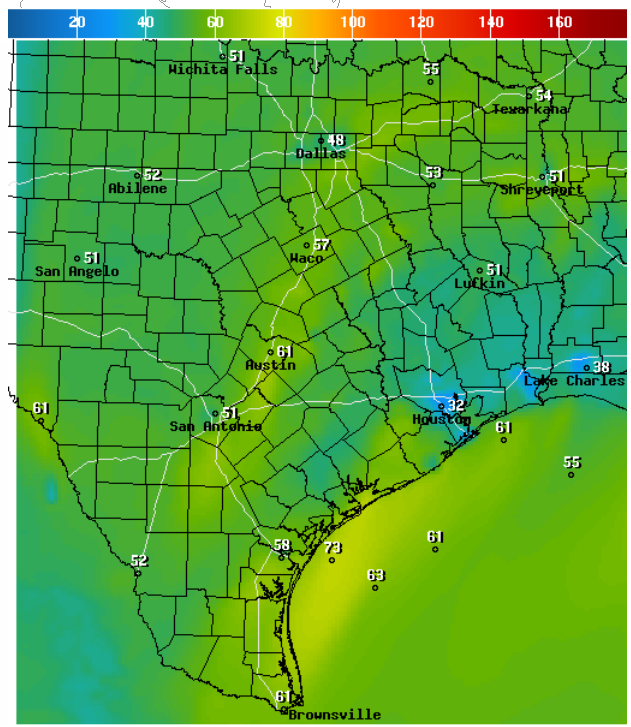
06z model run Graphic created-Sep 25 7:25AM EDT

UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 26

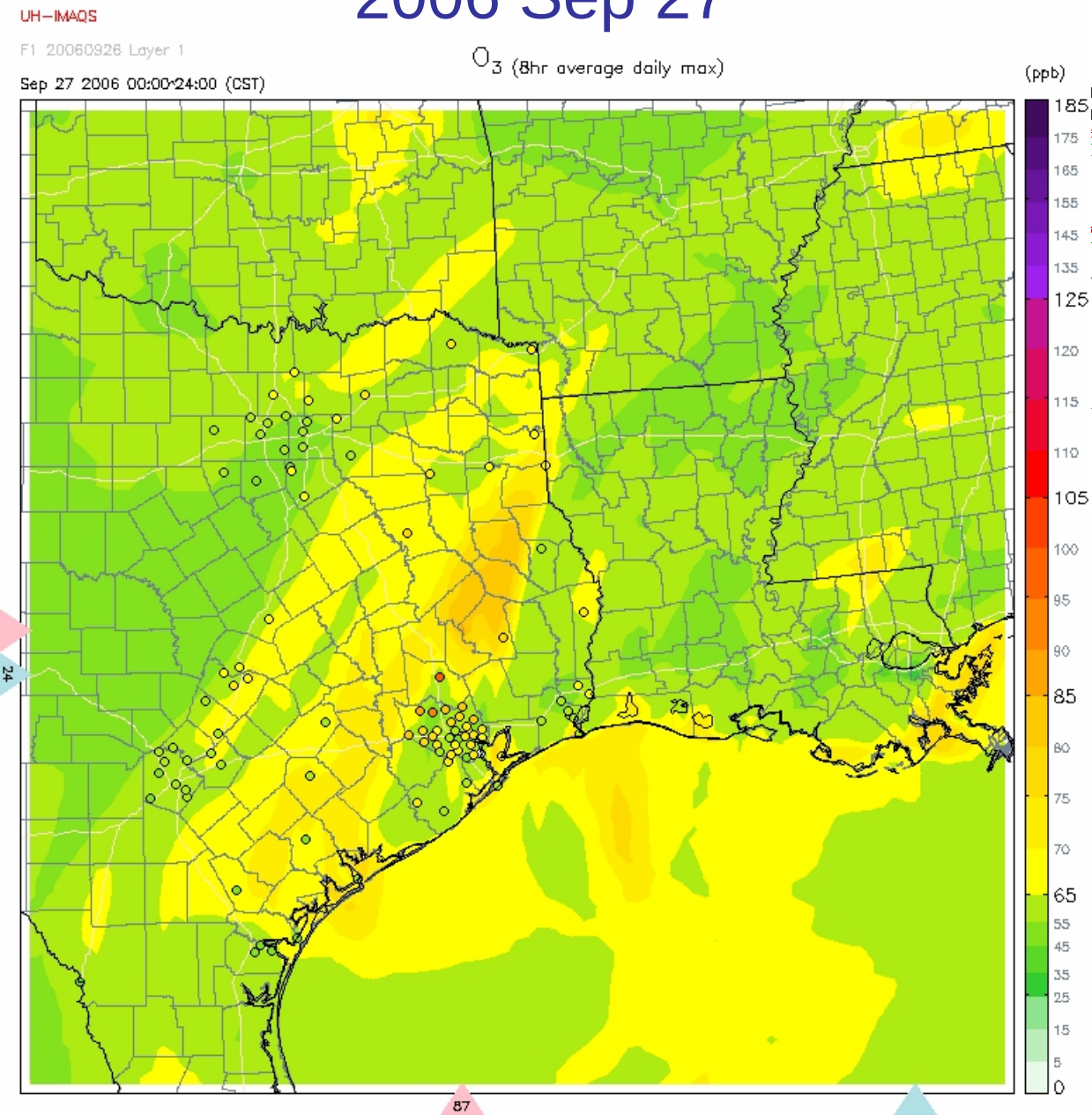


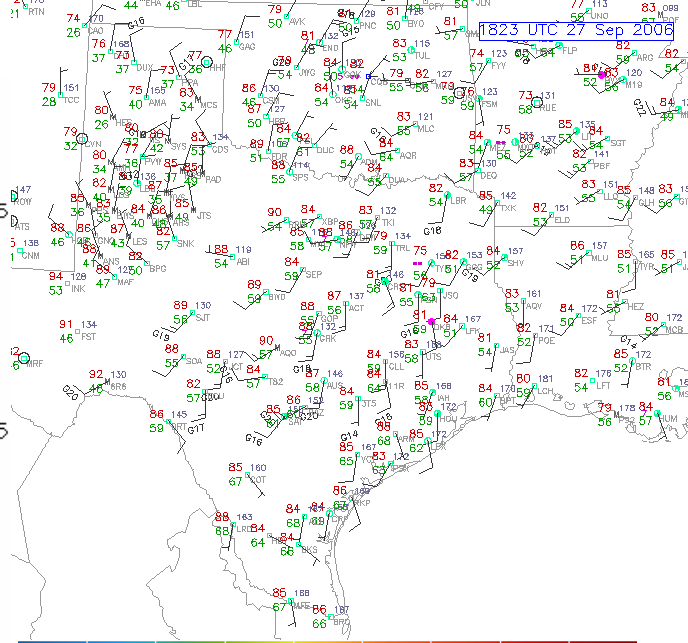


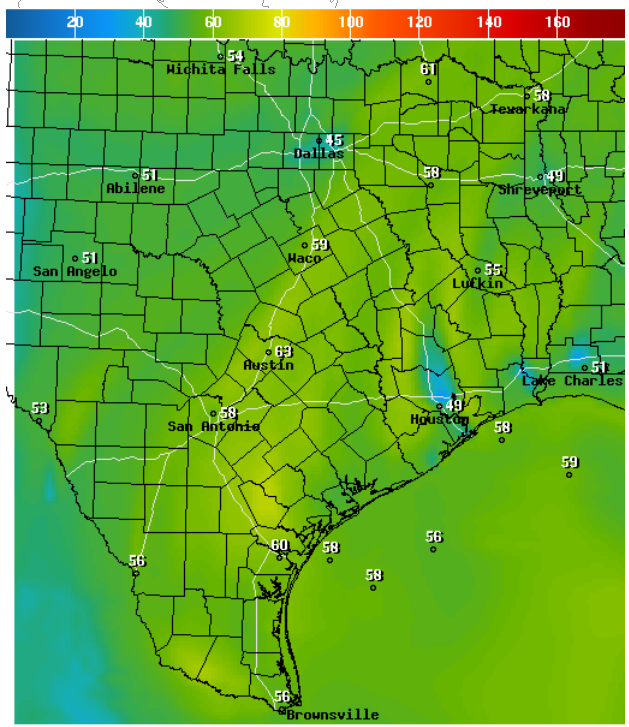


UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 27

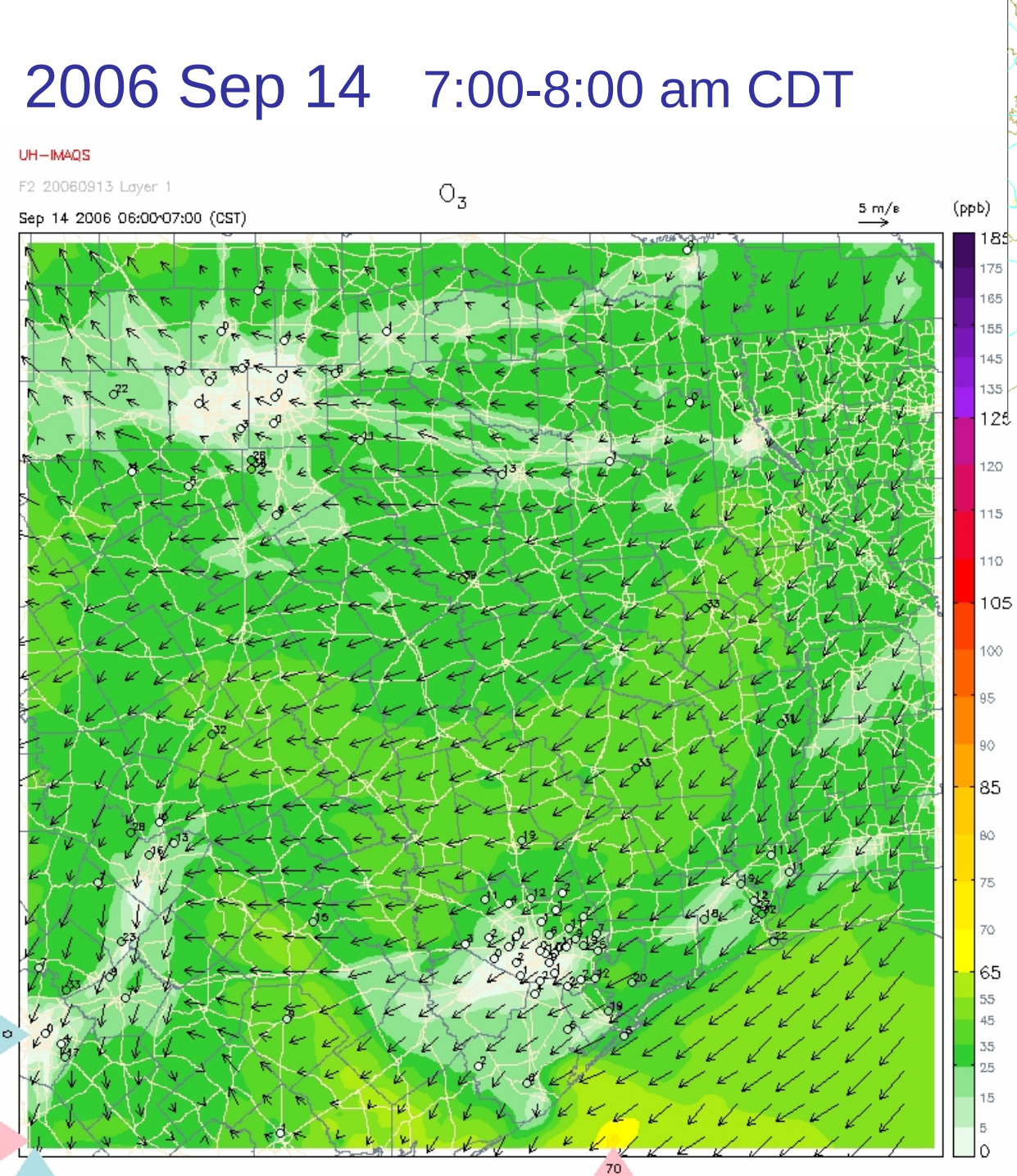


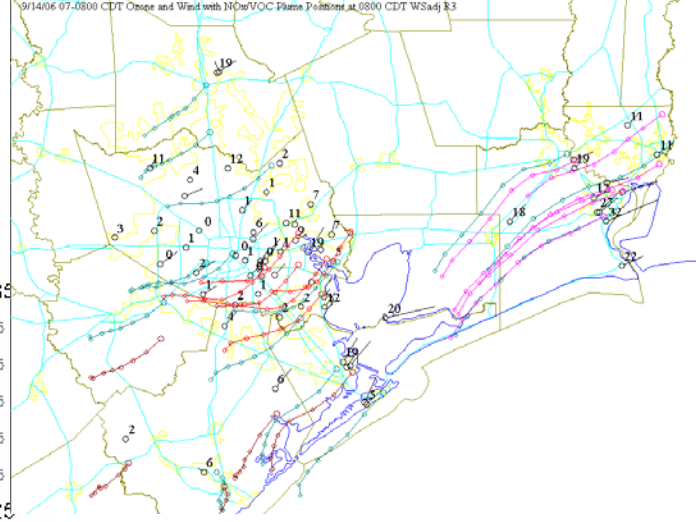




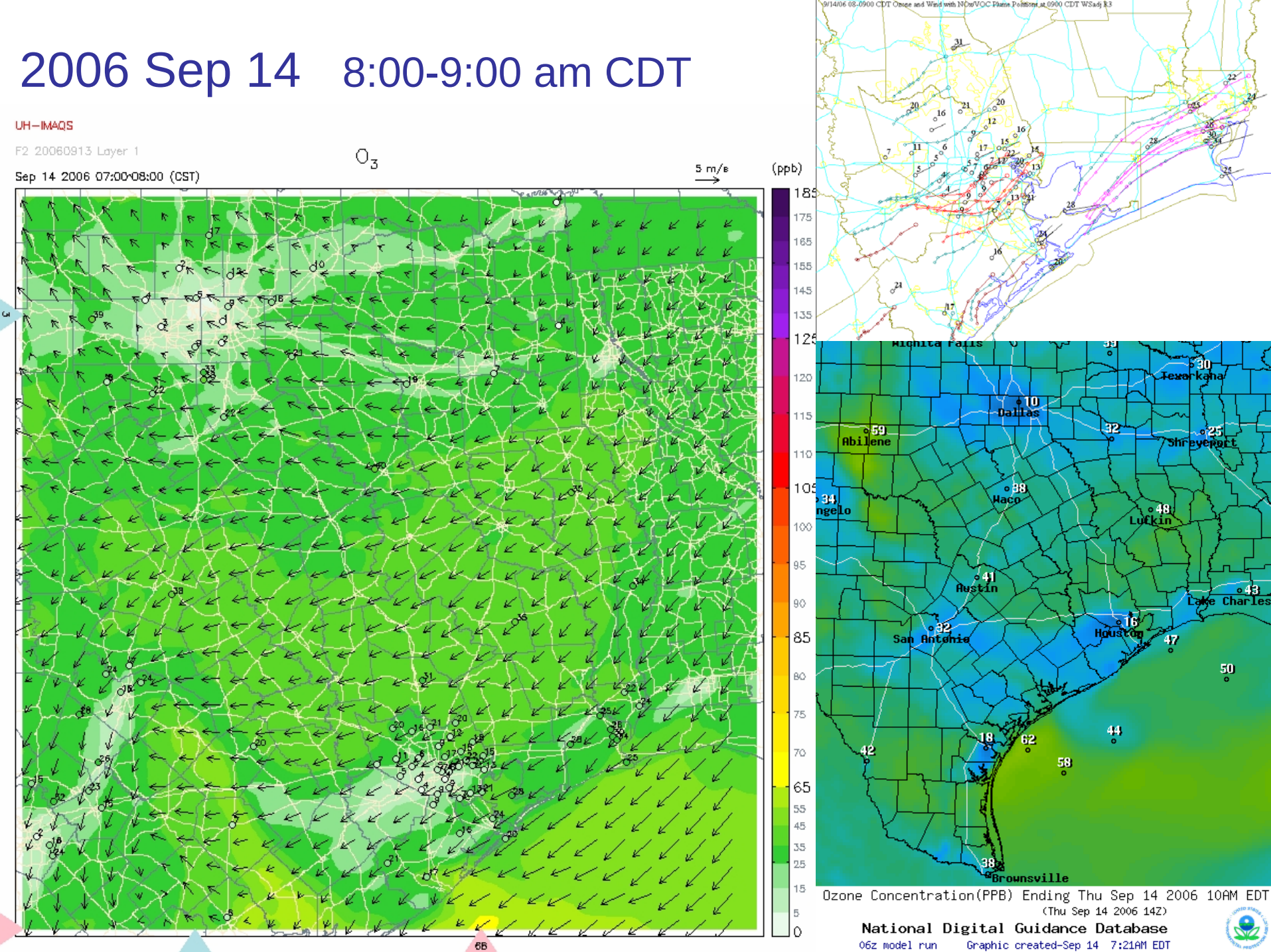
UH shows peak 8-hour for day, NOAA shows 8-hour ending at 8 pm CDT

2006 Sep 14 7:00-8:00 am CDT

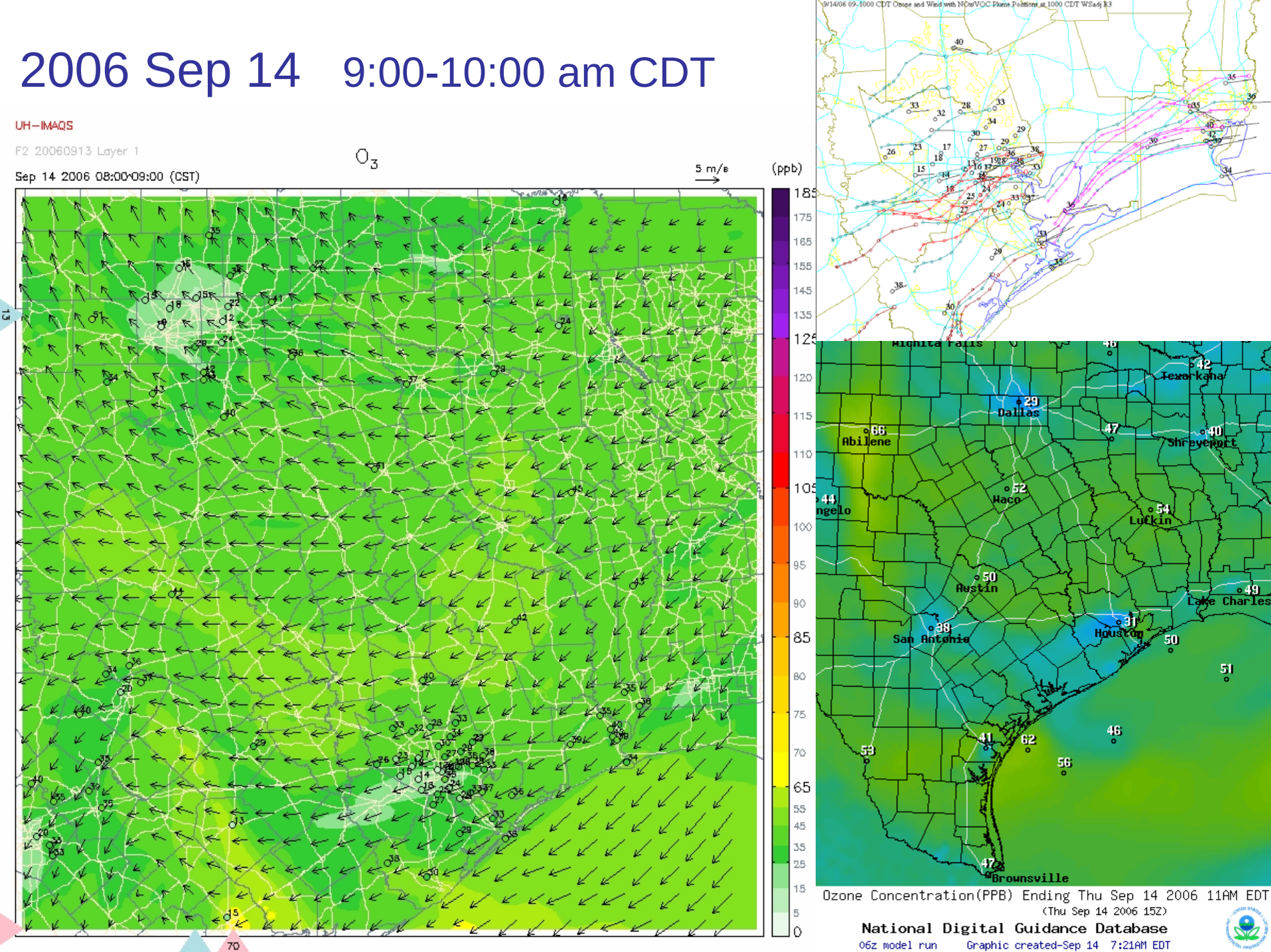




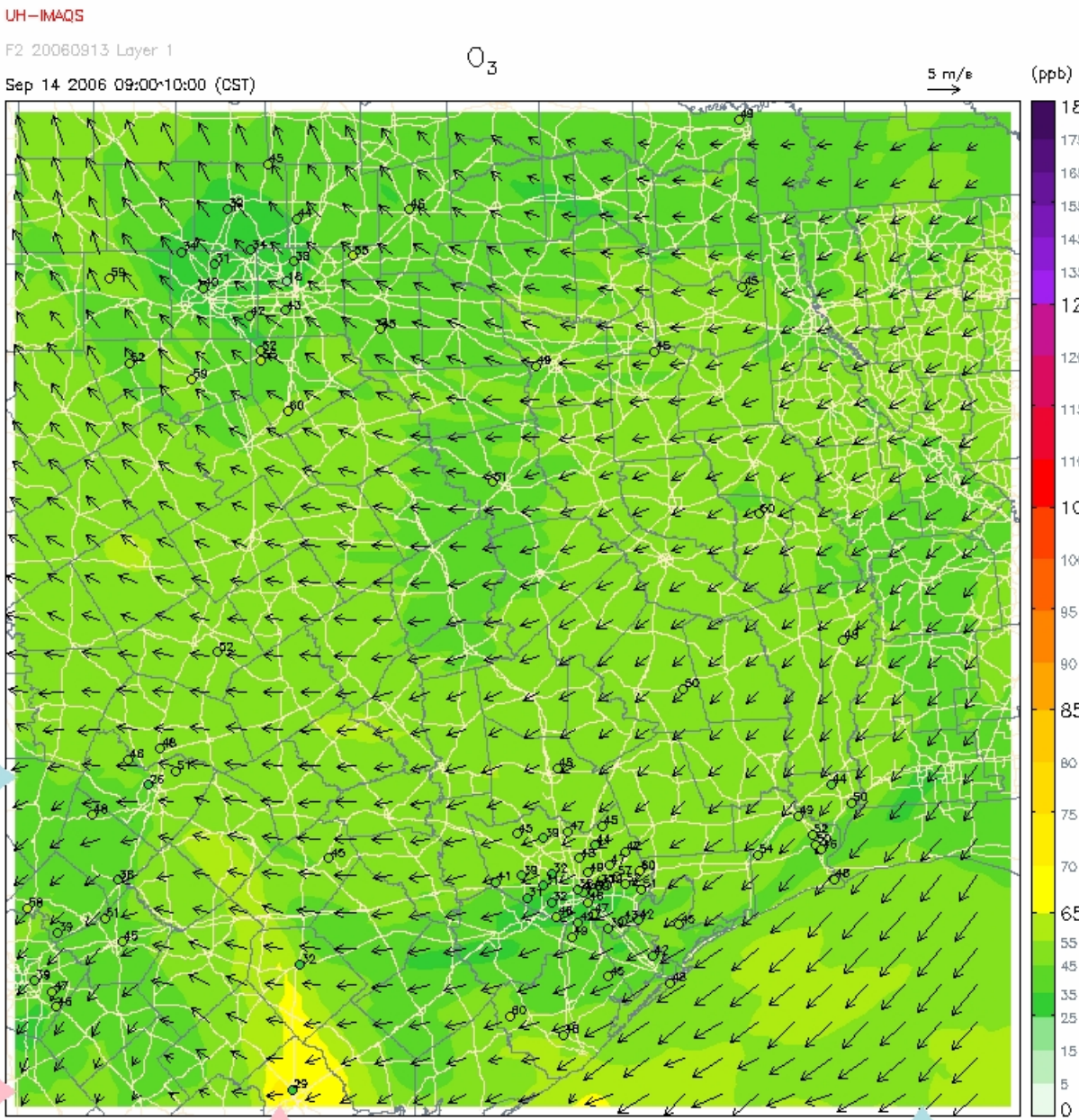
2006 Sep 14 8:00-9:00 am CDT

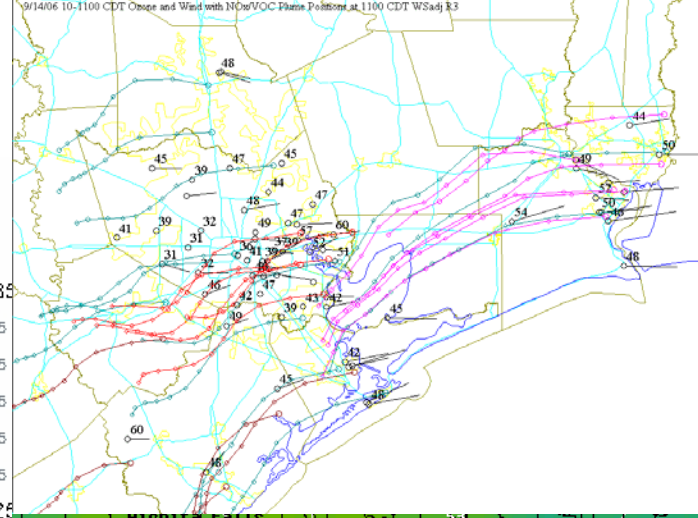


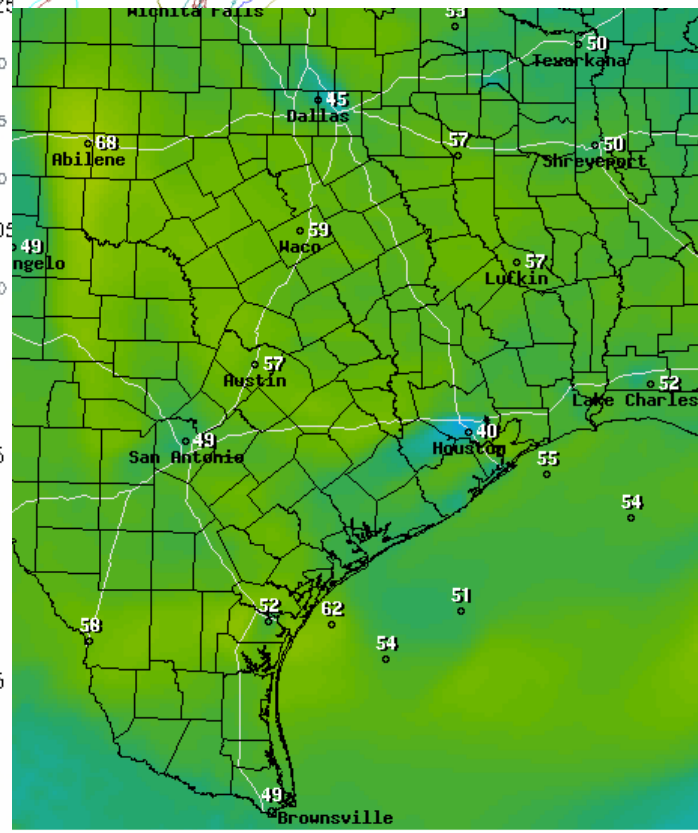
2006 Sep 14 9:00-10:00 am CDT



2006 Sep 14 10:00-11:00 am CDT

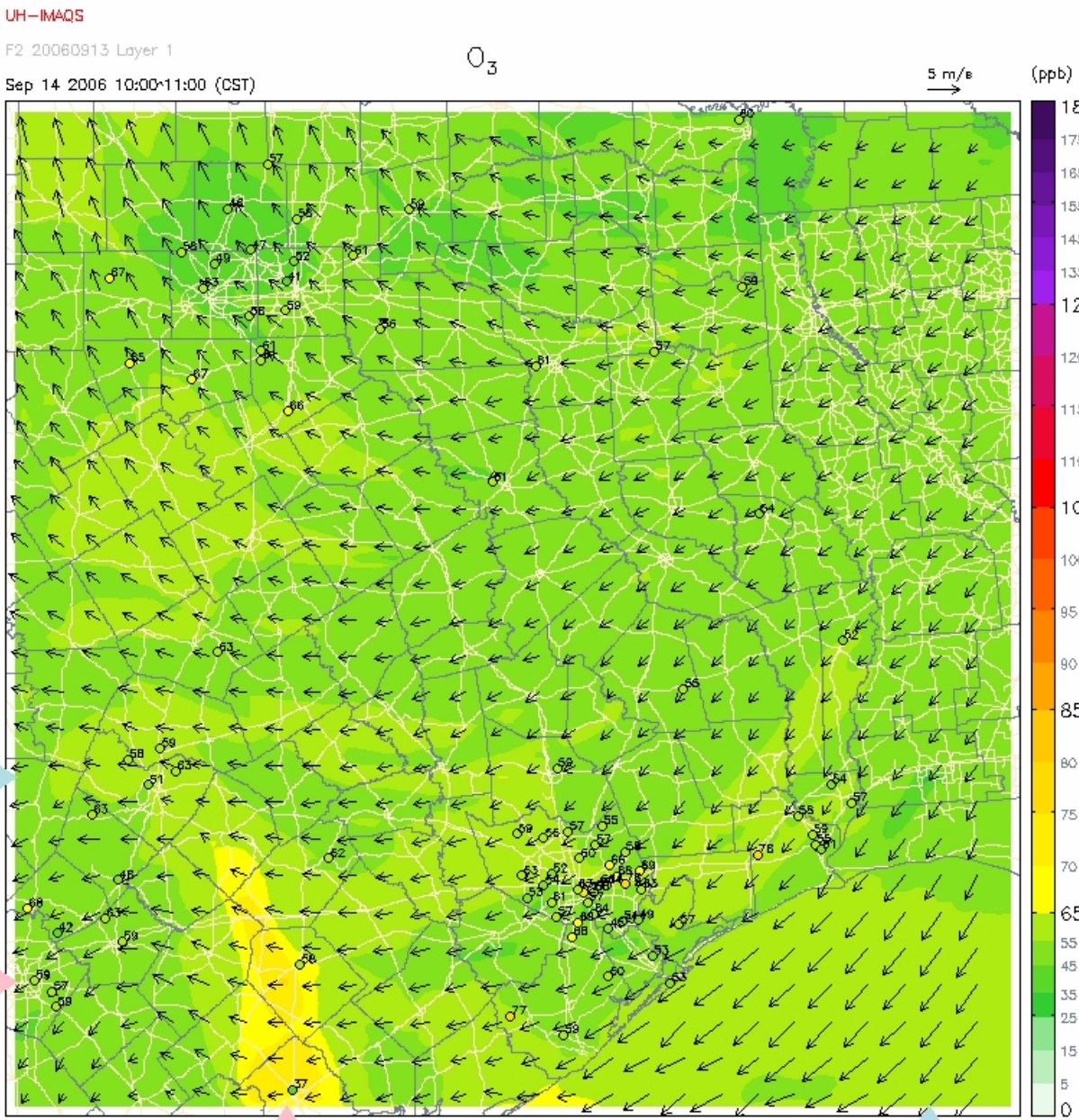


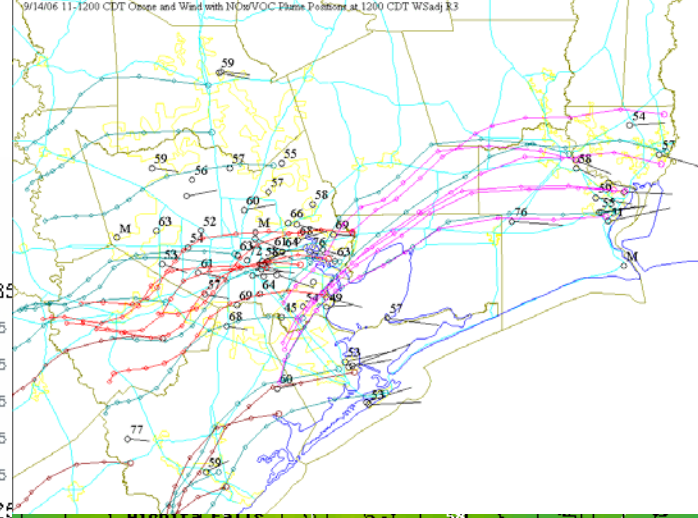


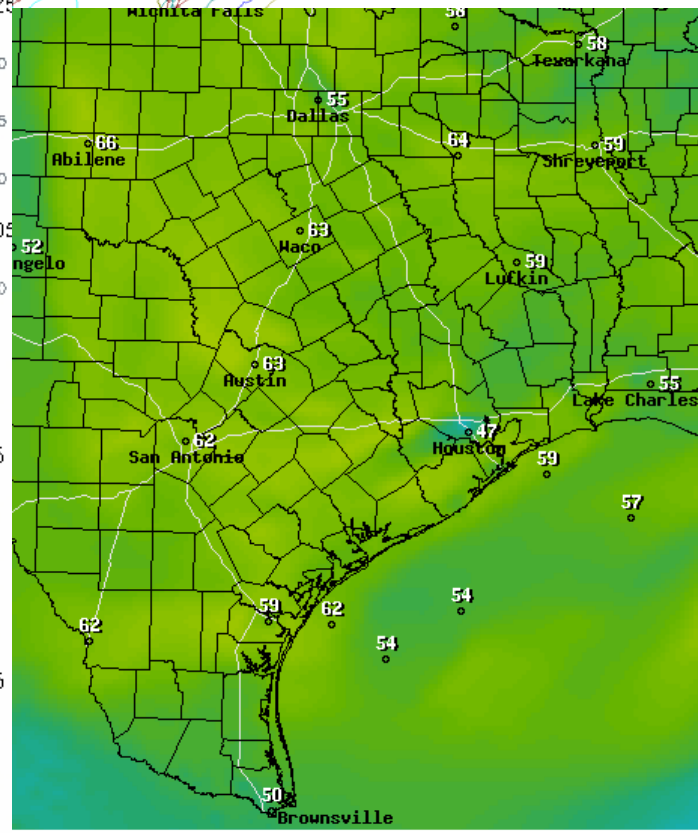


Ozone Concentration(PPB) Ending Thu Sep 14 2006 12PM EDT
(Thu Sep 14 2006 16Z)
National Digital Guidance Database
06z model run Graphic created-Sep 14 7:21AM EDT

2006 Sep 14 11:00-12:00 am CDT

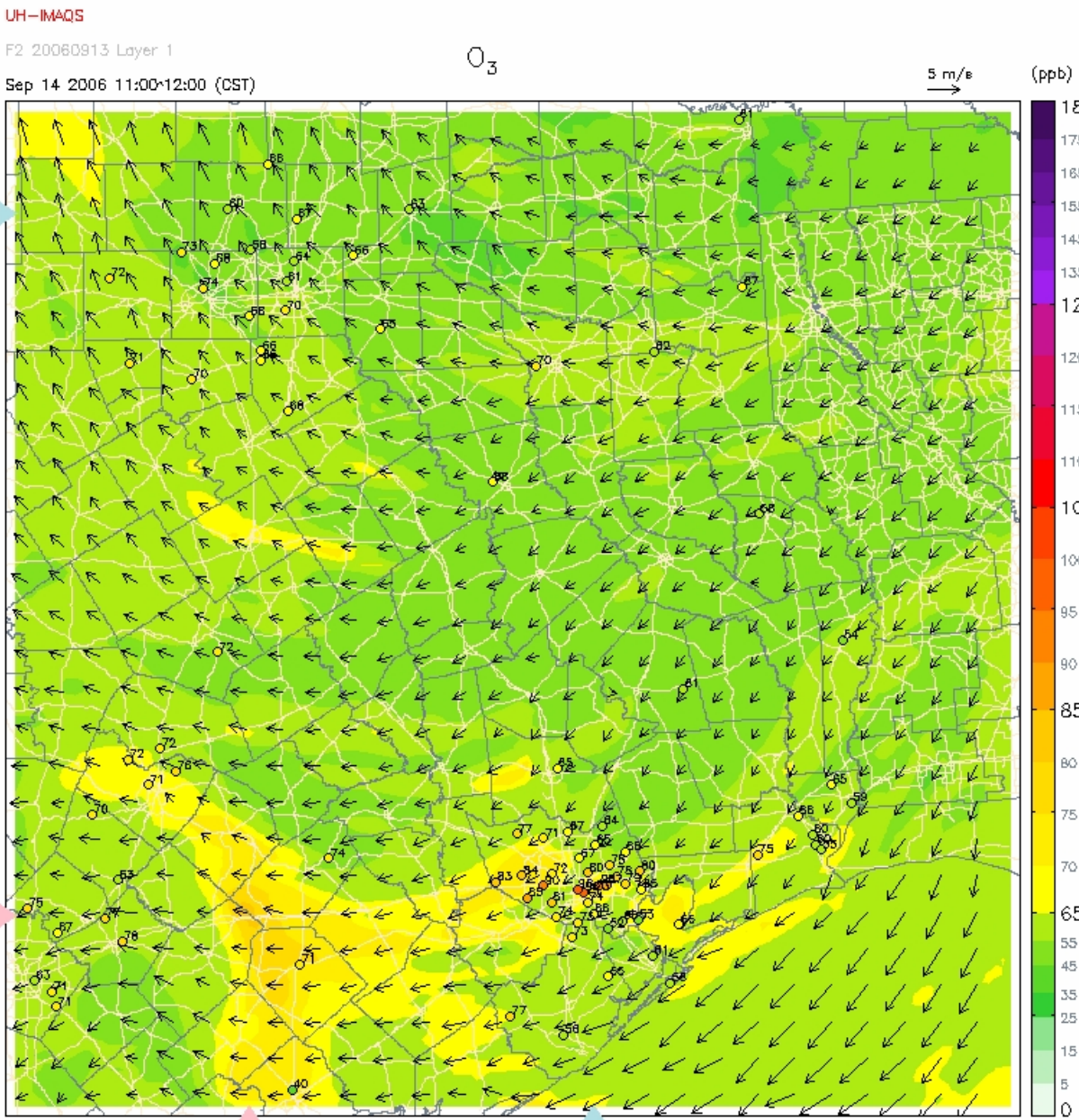


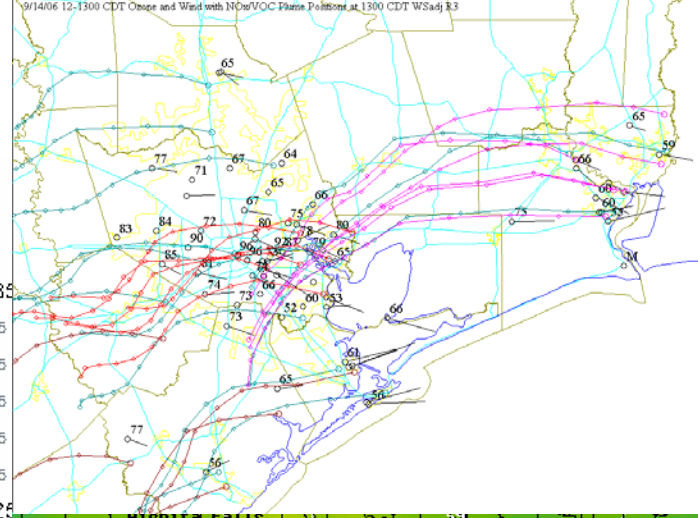


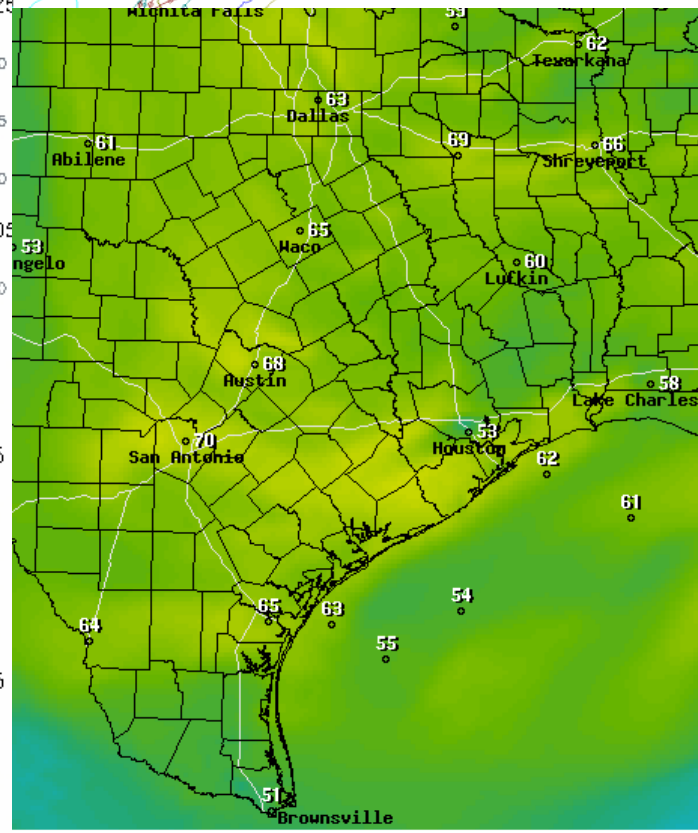


Ozone Concentration(PPB) Ending Thu Sep 14 2006 1PM EDT
(Thu Sep 14 2006 17Z)
National Digital Guidance Database
06z model run Graphic created-Sep 14 7:21AM EDT

2006 Sep 14 12:00-1:00 pm CDT

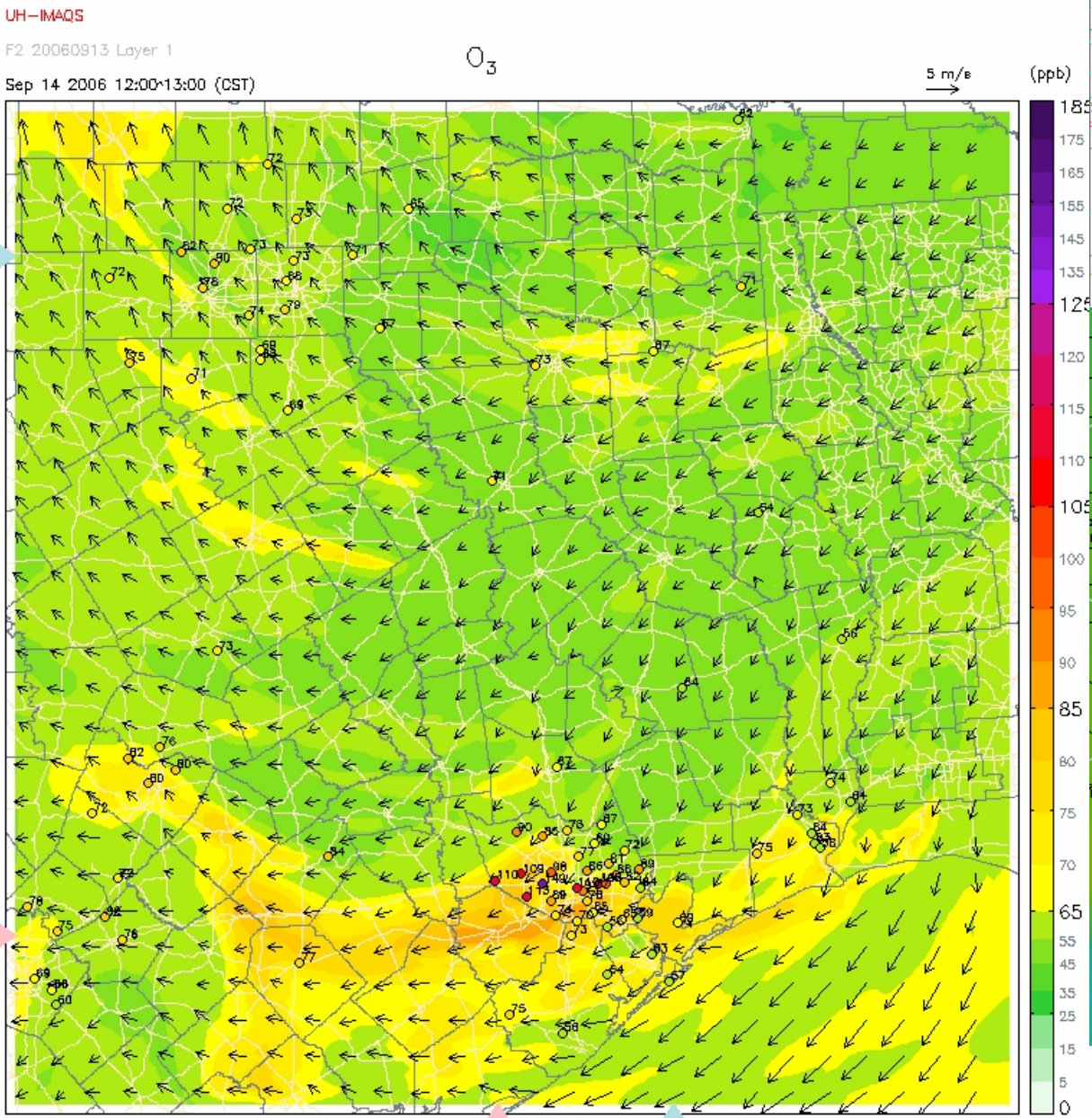


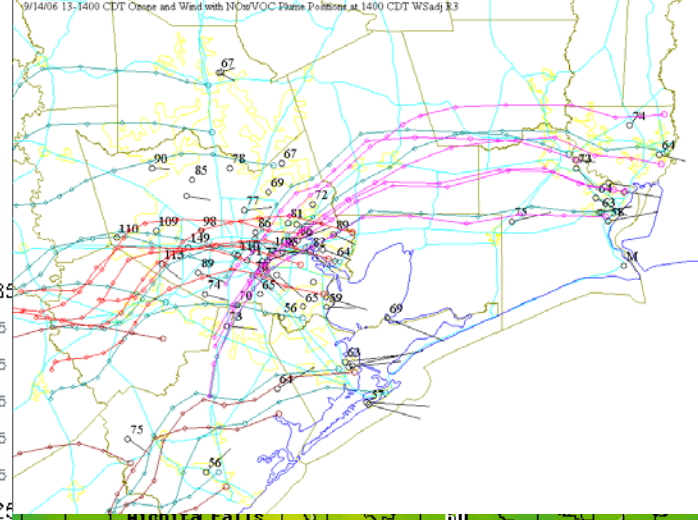


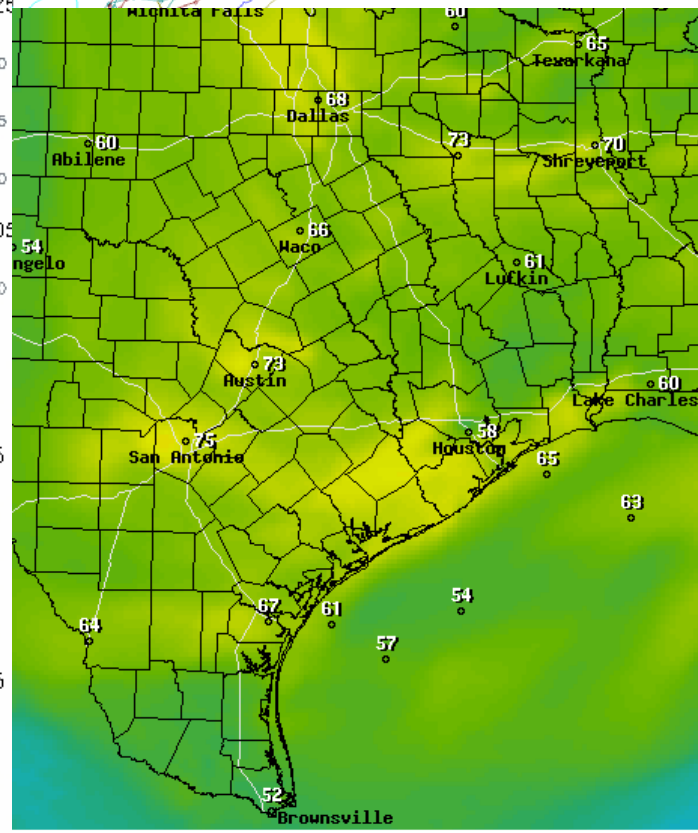


Ozone Concentration(PPB) Ending Thu Sep 14 2006 2PM EDT
(Thu Sep 14 2006 18Z)
National Digital Guidance Database
06z model run Graphic created-Sep 14 7:21AM EDT

2006 Sep 14 1:00-2:00 pm CDT

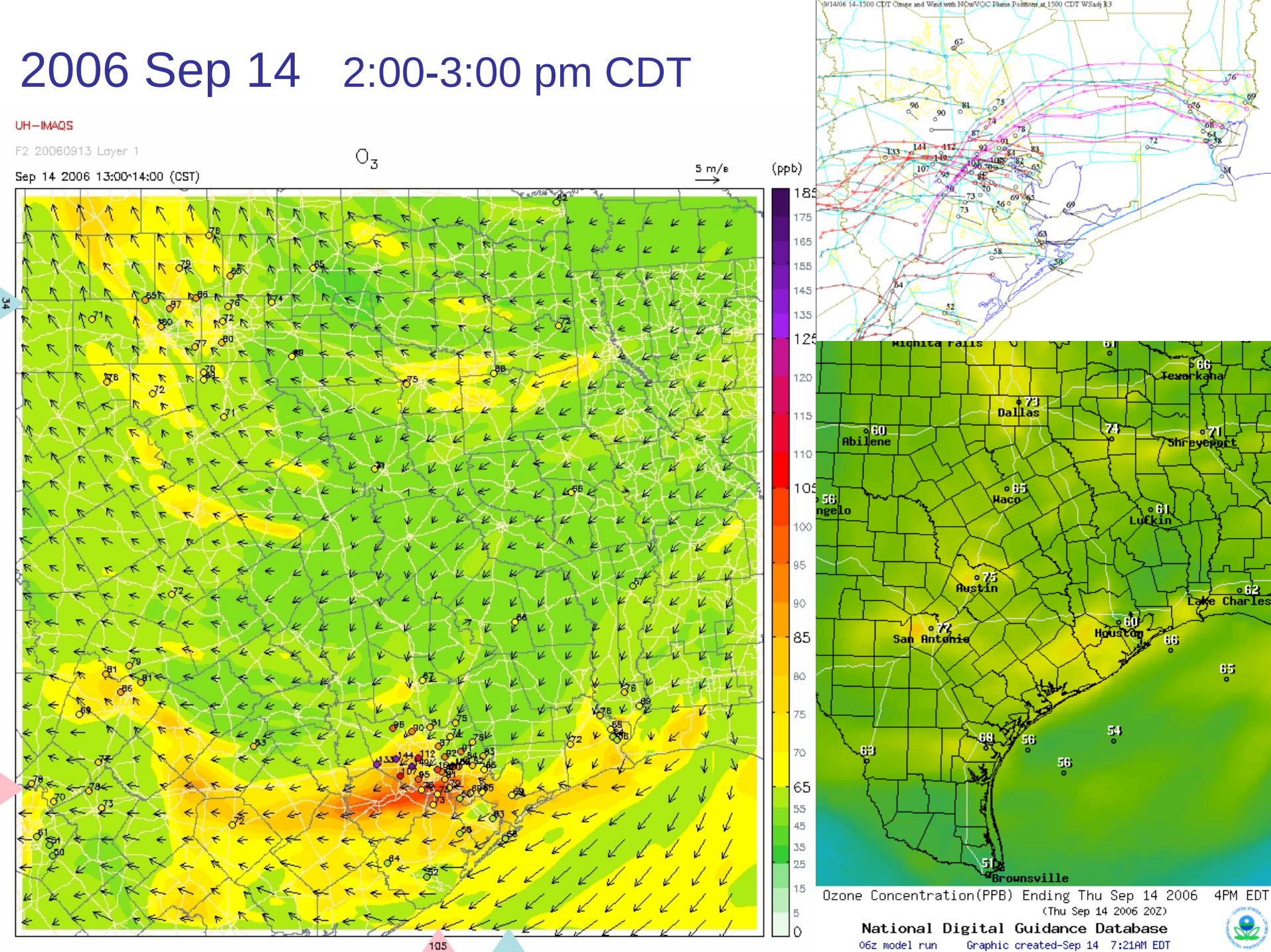




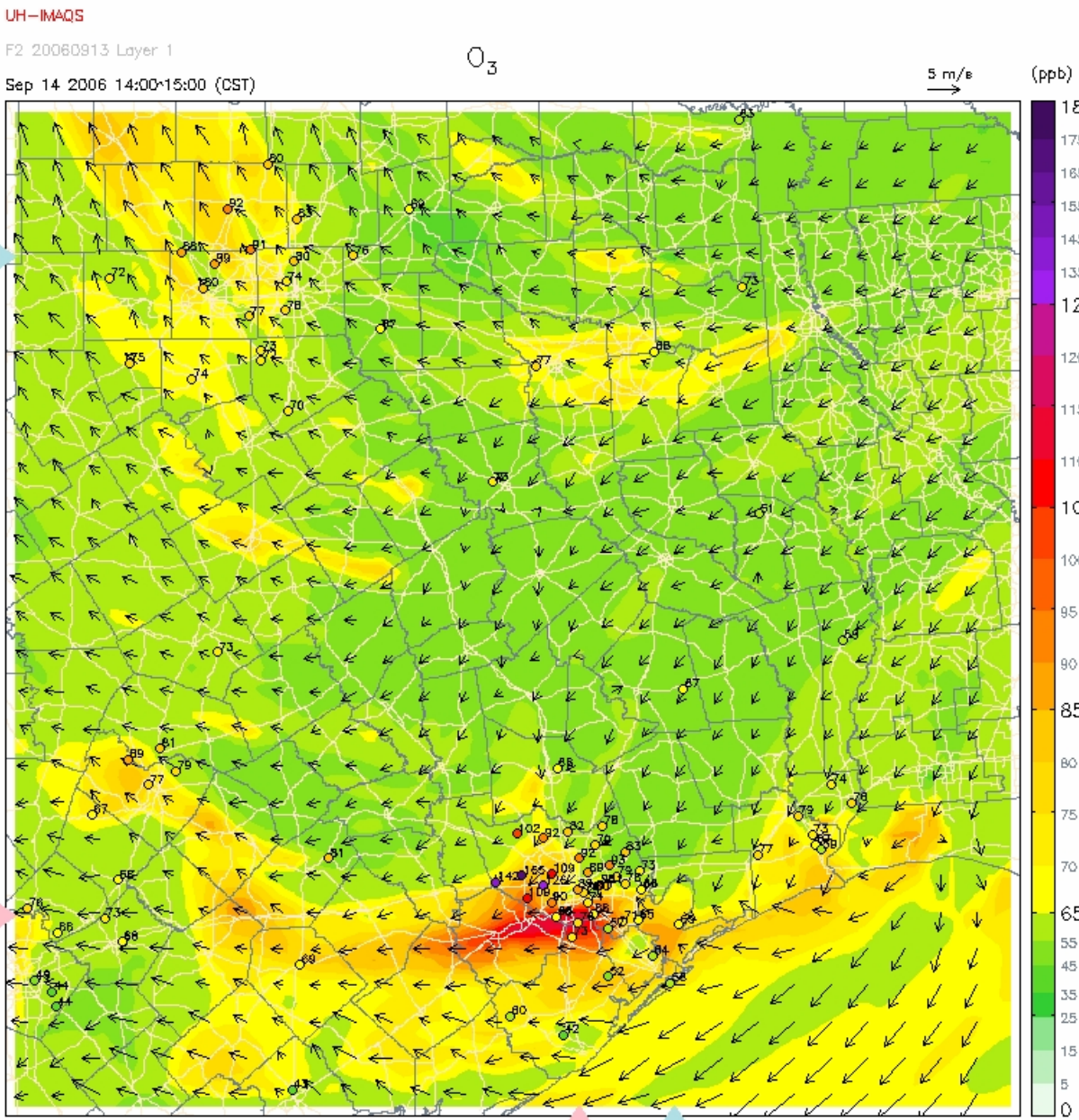


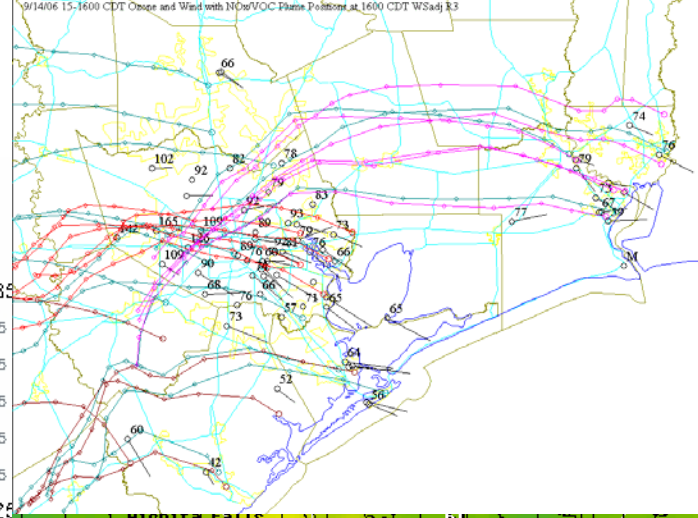
Ozone Concentration(PPB) Ending Thu Sep 14 2006 3PM EDT
(Thu Sep 14 2006 19Z)
National Digital Guidance Database
06z model run Graphic created-Sep 14 7:21AM EDT

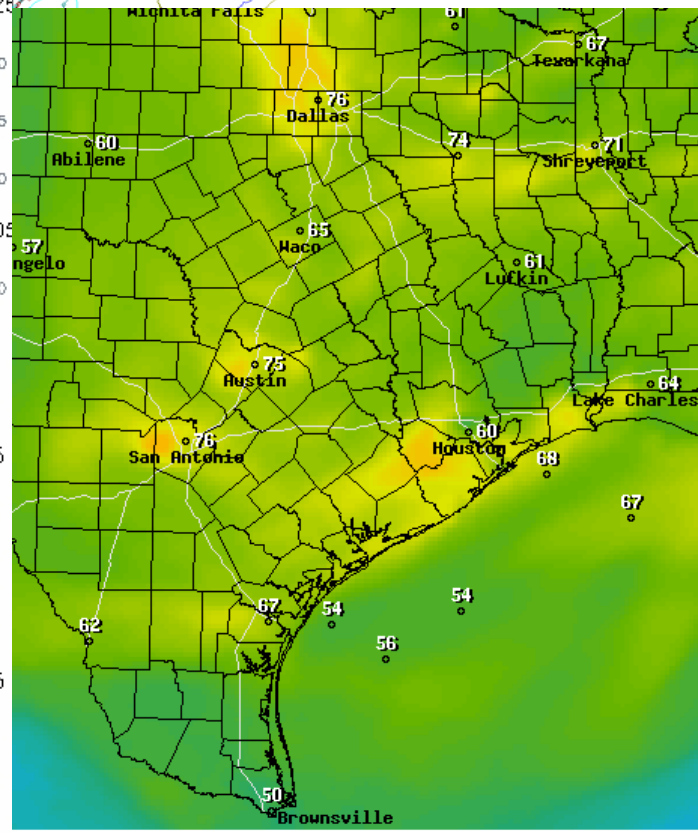
2006 Sep 14 2:00-3:00 pm CDT



2006 Sep 14 3:00-4:00 pm CDT

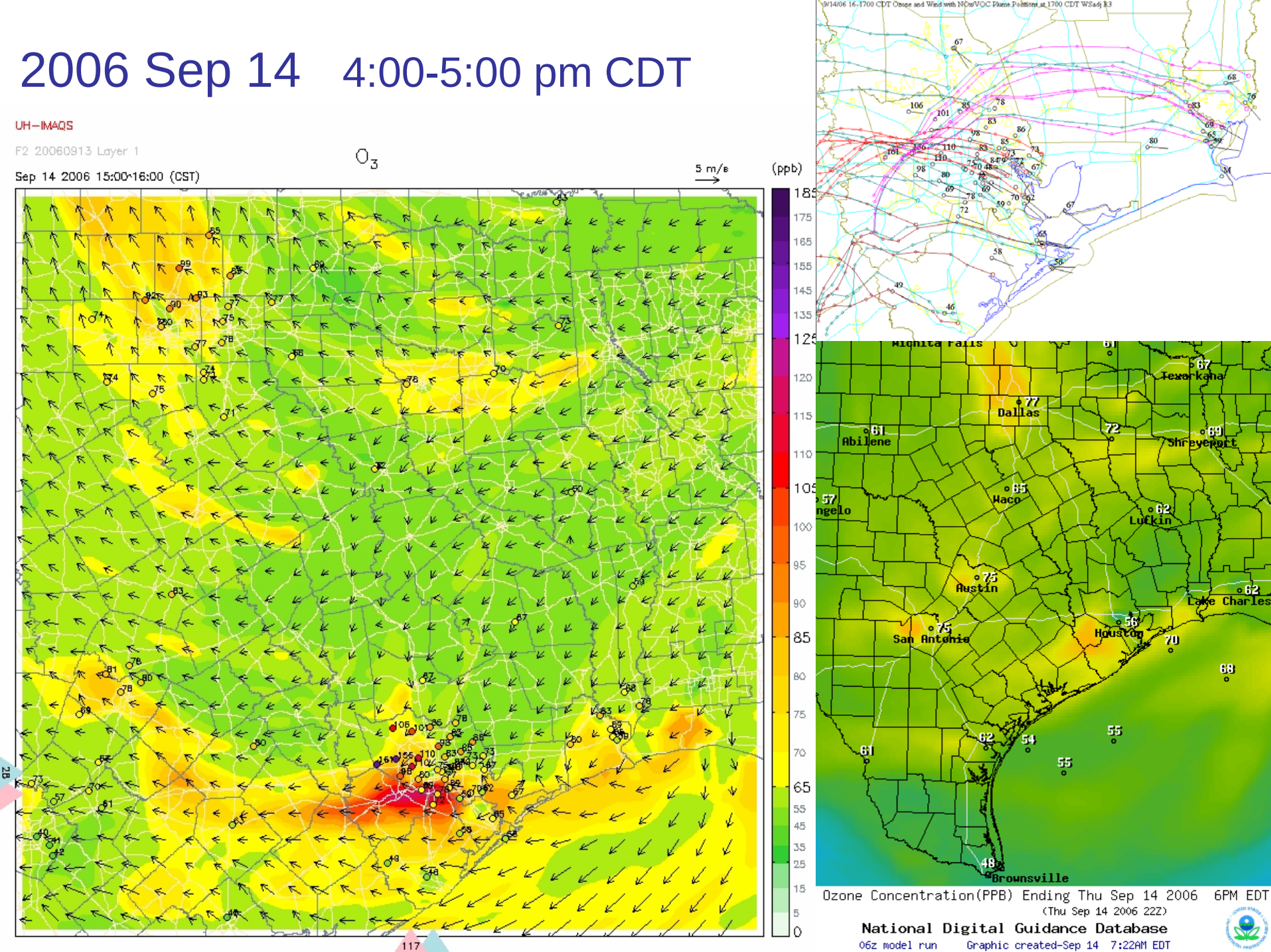




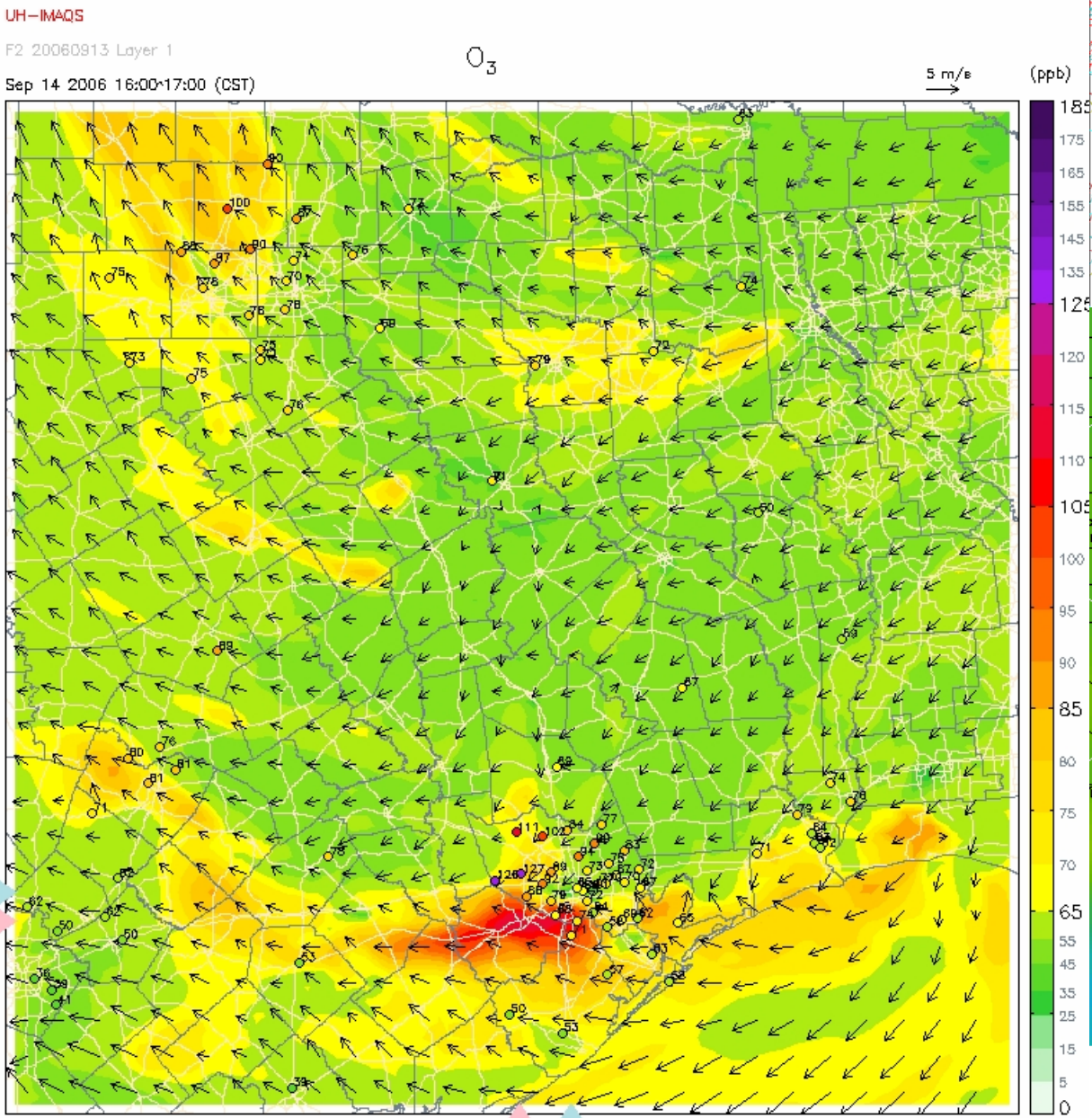


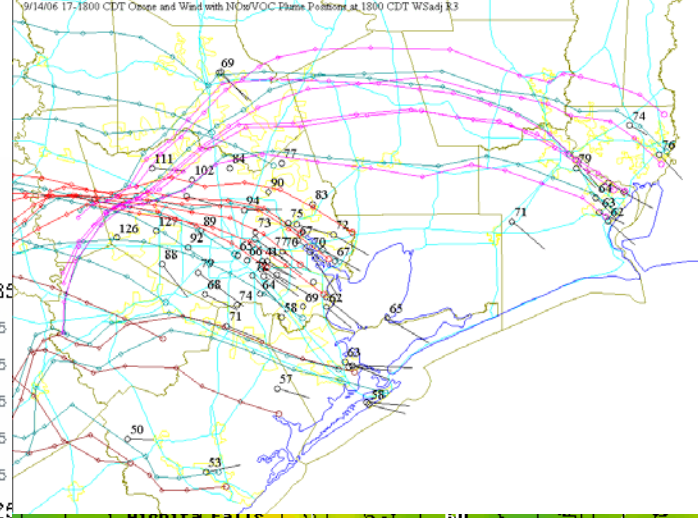
Ozone Concentration(PPB) Ending Thu Sep 14 2006 5PM EDT
(Thu Sep 14 2006 21Z)
National Digital Guidance Database
06z model run Graphic created-Sep 14 7:21AM EDT

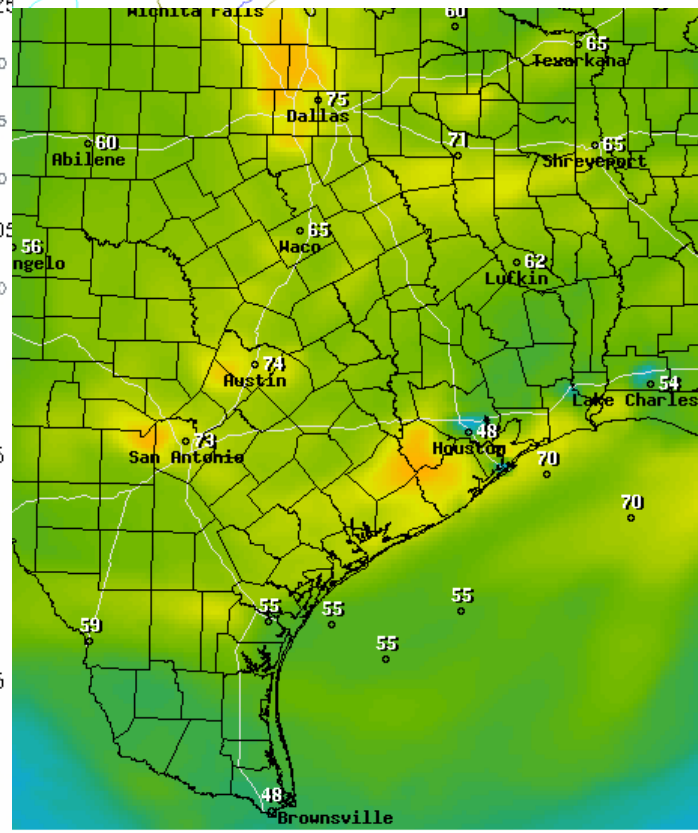
2006 Sep 14 4:00-5:00 pm CDT



2006 Sep 14 5:00-6:00 pm CDT





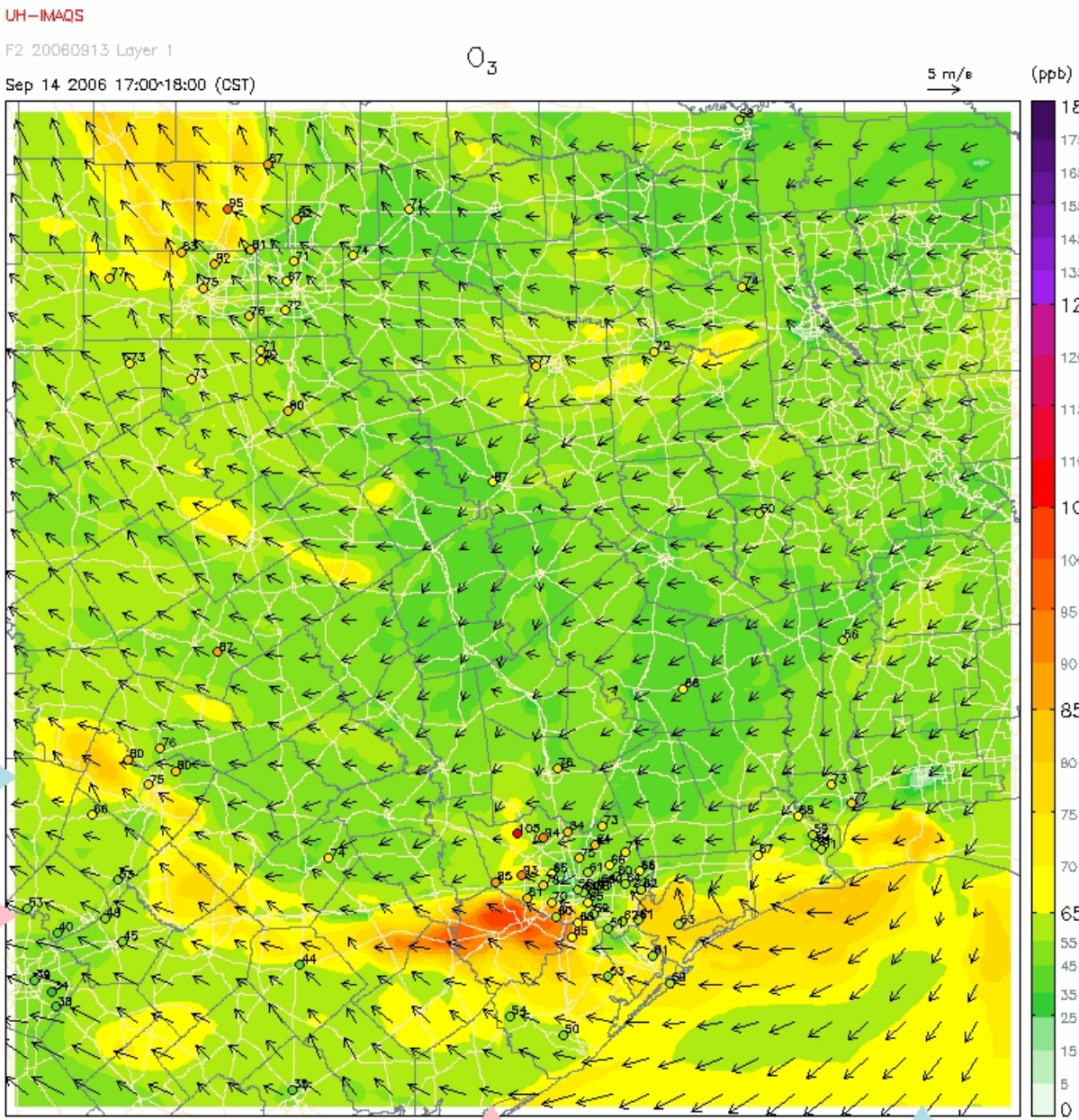


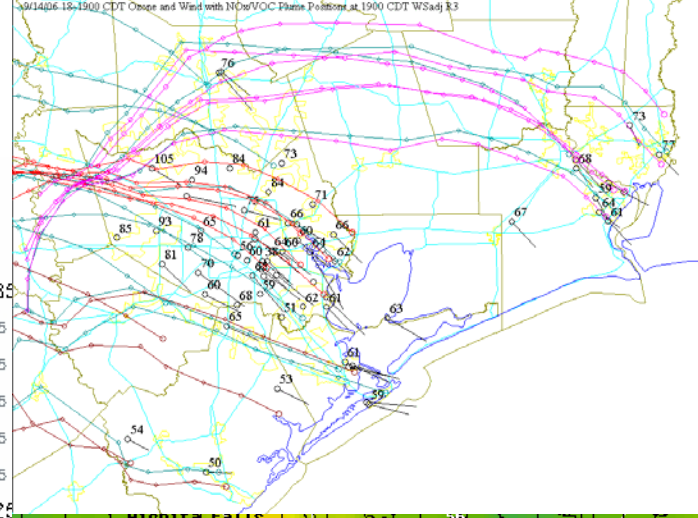
Ozone Concentration(PPB) Ending Thu Sep 14 2006 7PM EDT
(Thu Sep 14 2006 23Z)

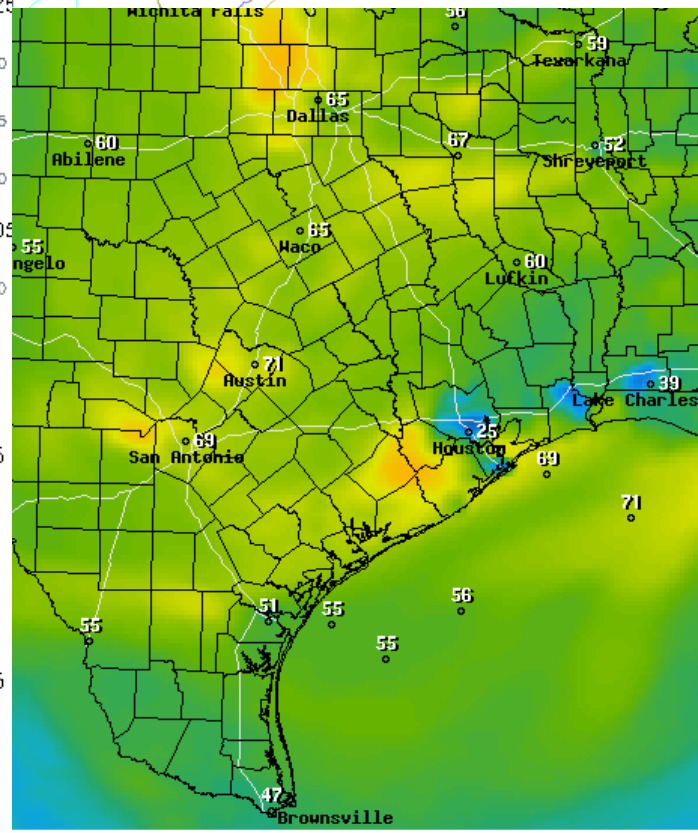
National Digital Guidance Database

06z model run Graphic created-Sep 14 7:22AM EDT

2006 Sep 14 6:00-7:00 pm CDT

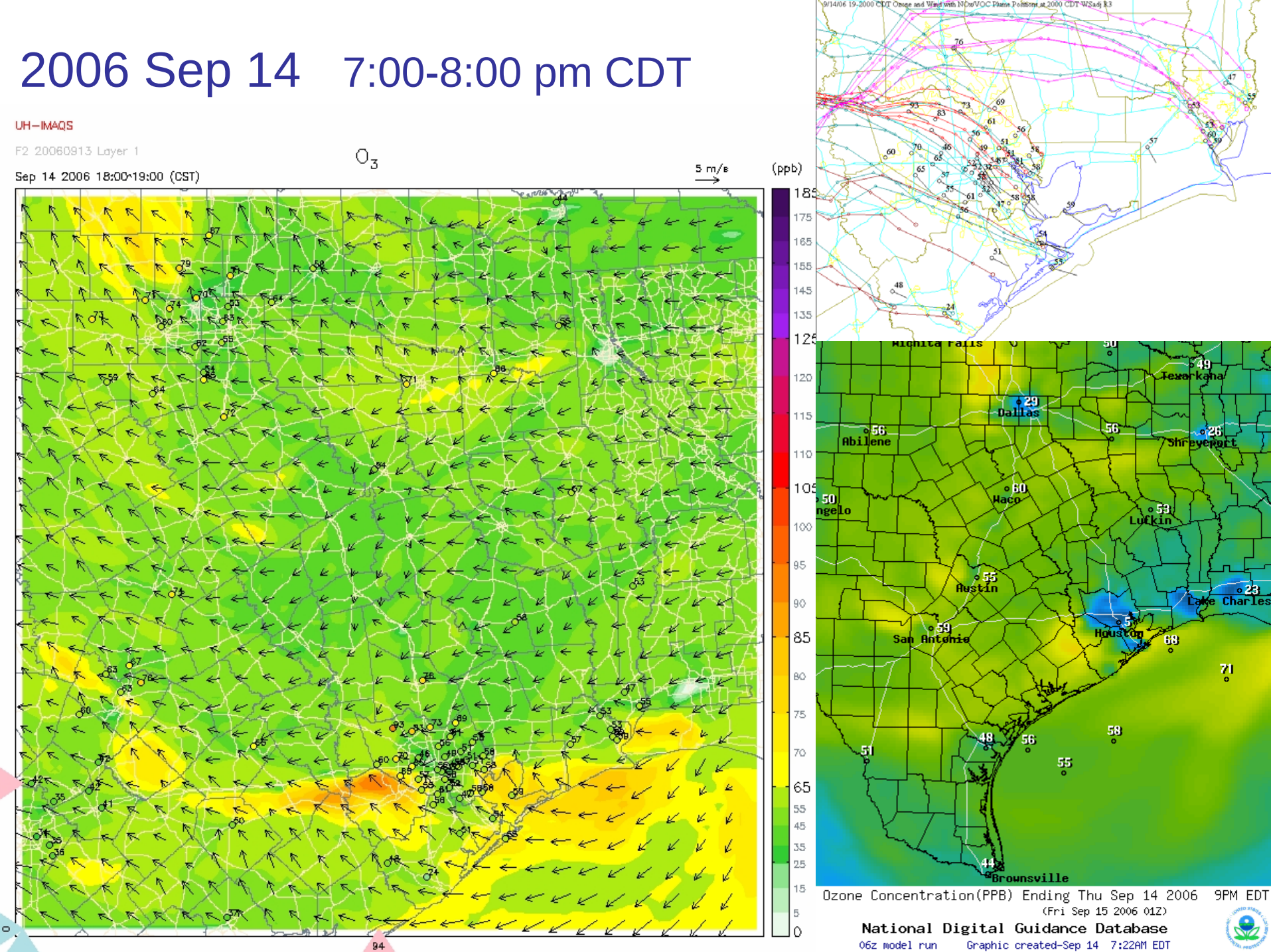
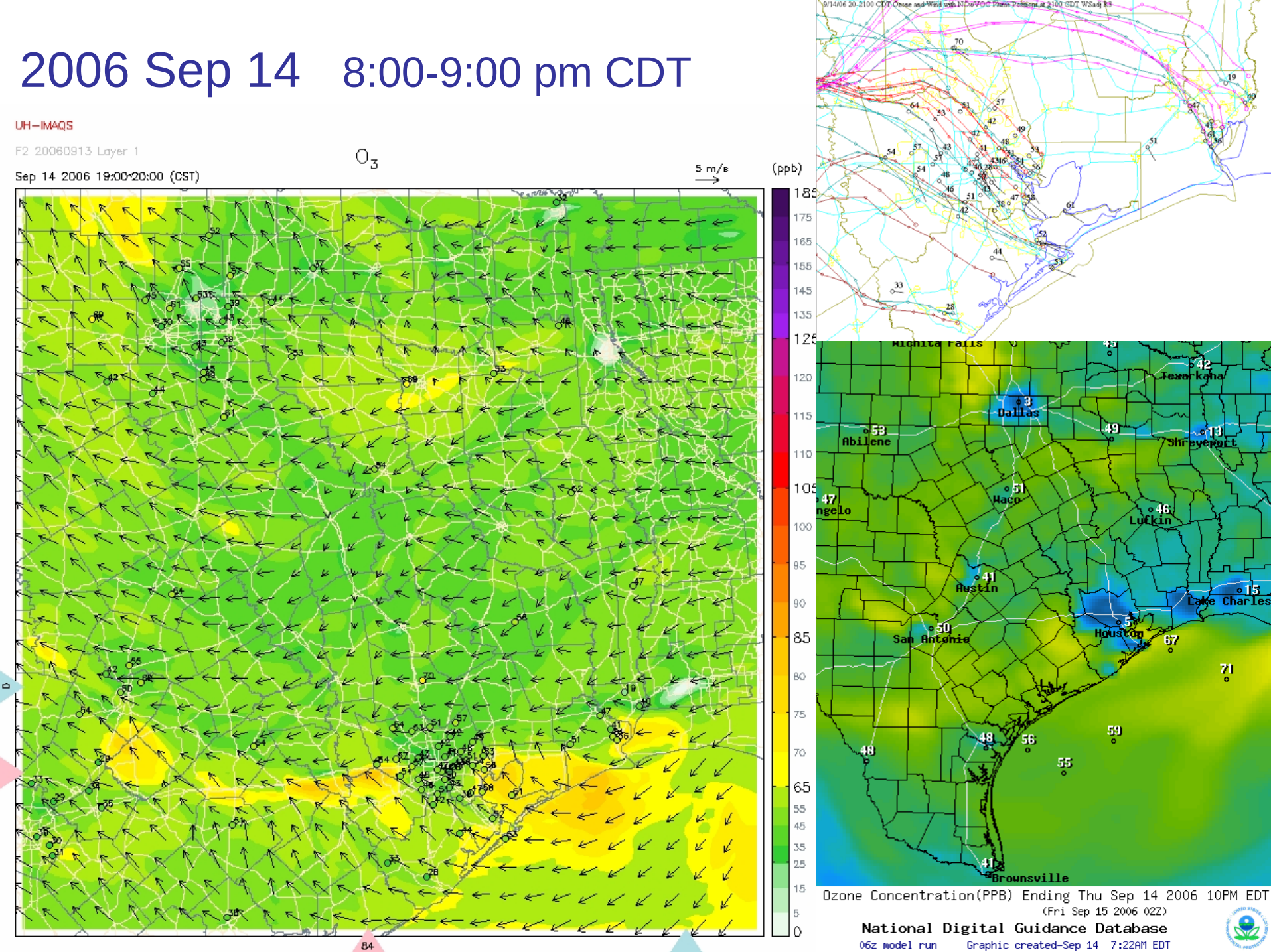






Ozone Concentration(PPB) Ending Thu Sep 14 2006 8PM EDT
(Fri Sep 15 2006 00Z)
National Digital Guidance Database
06z model run Graphic created-Sep 14 7:22AM EDT

2006 Sep 14 7:00-8:00 pm CDT



2006 Sep 14 8:00-9:00 pm CDT