Controlled Oil Burn Data for the Deep Water Horizon Gulf Oil Spill

National Oceanic & Atmospheric Admin. (NOAA)

Air Resources Laboratory (ARL)

DWH controlled oil burn record processing

- Received raw burn record data for April 28 - July 19, 2010 from Edwin Levin (NOAA/O R&R), in the excel format.
- Burn record Lat. /Long checked (mapped & QA'ed)
- Does NOT include flaring data by Q4000 & oil burned during initial explosion
- Total burn volume is 219986 barrel in minimum estimation, and 309457 barrel in maximum estimation

- Data Description

  "Burn_Data_Release_20100719_v1.txt" includes estimated information for missing values

  Treatment of Missing values for air quality modeling
  - Missing latitude/longitude were replaced with DWH incident location
  - Missing burn durations were estimated from volume/duration regression (page 5)
  - Missing burn starting time was filled with 2PM local time (time of highest probability, page4)
  - Burn #289 was removed as no information was provided

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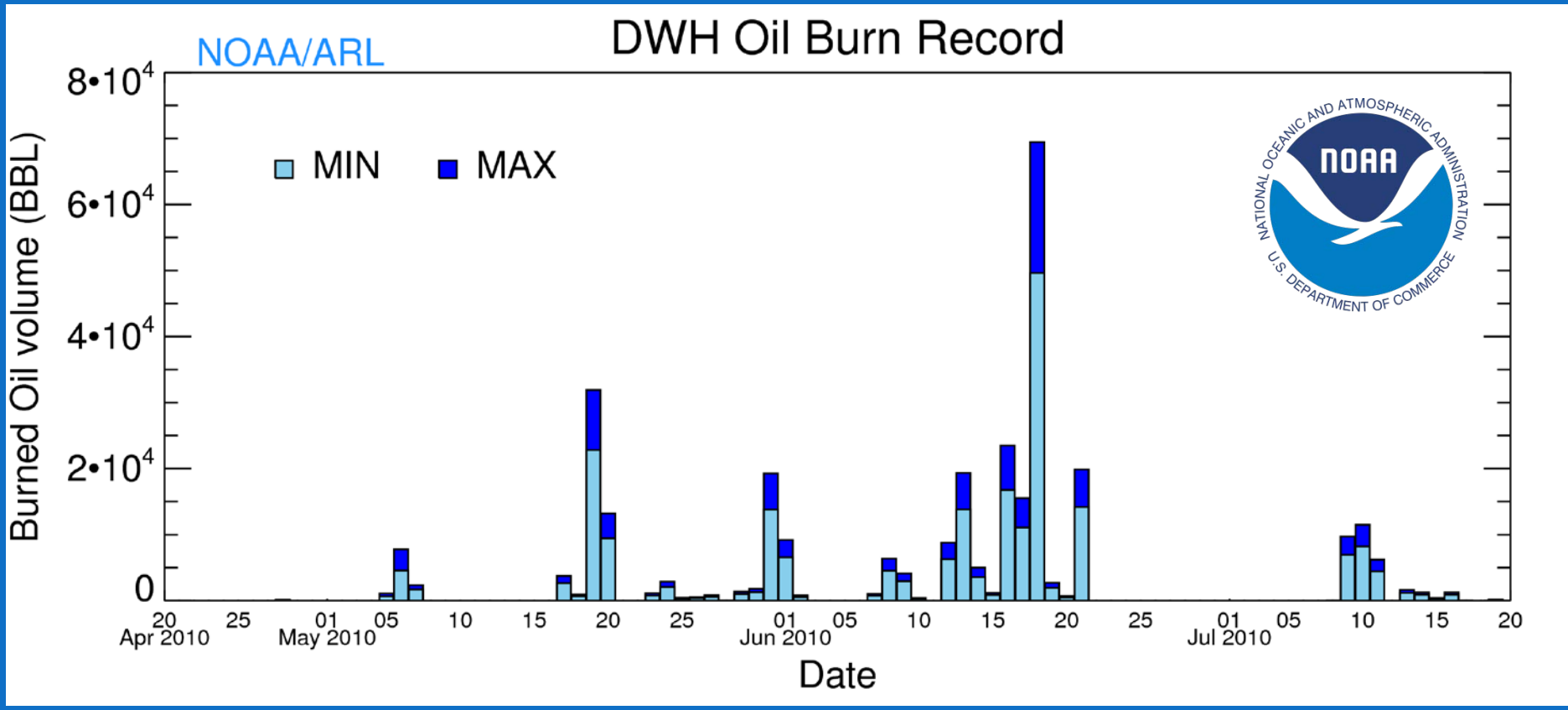
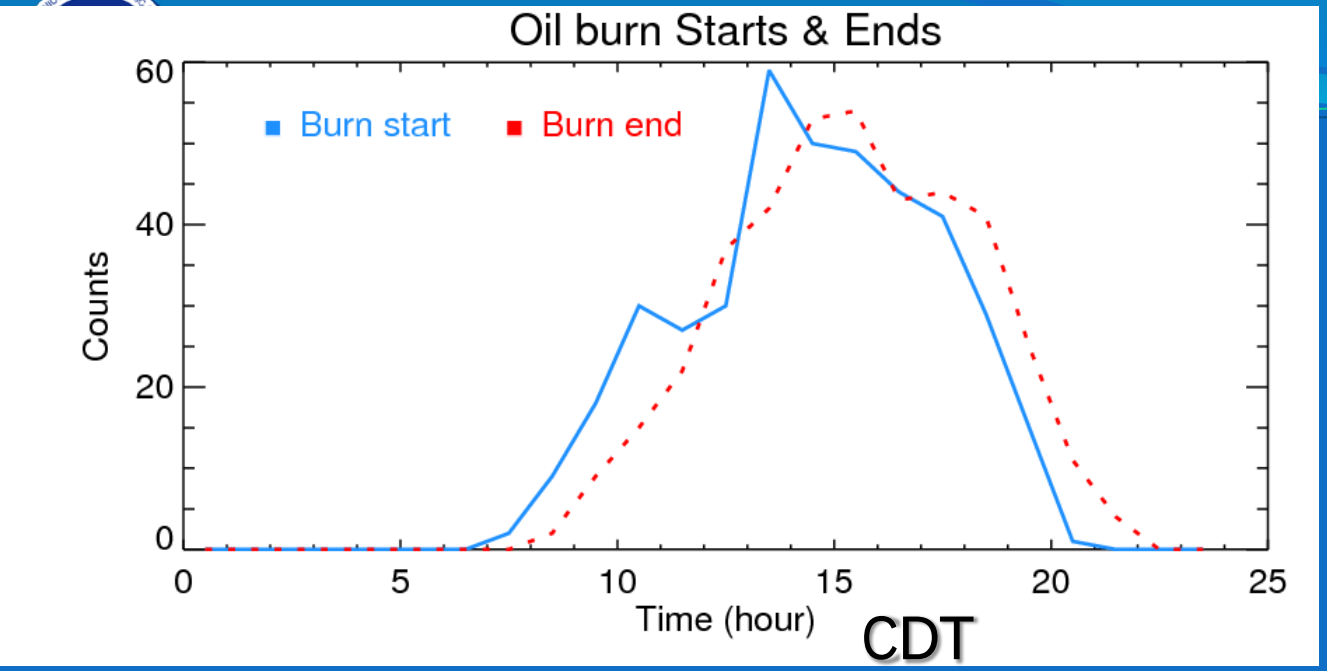
Volume of oil burned each day in barrels

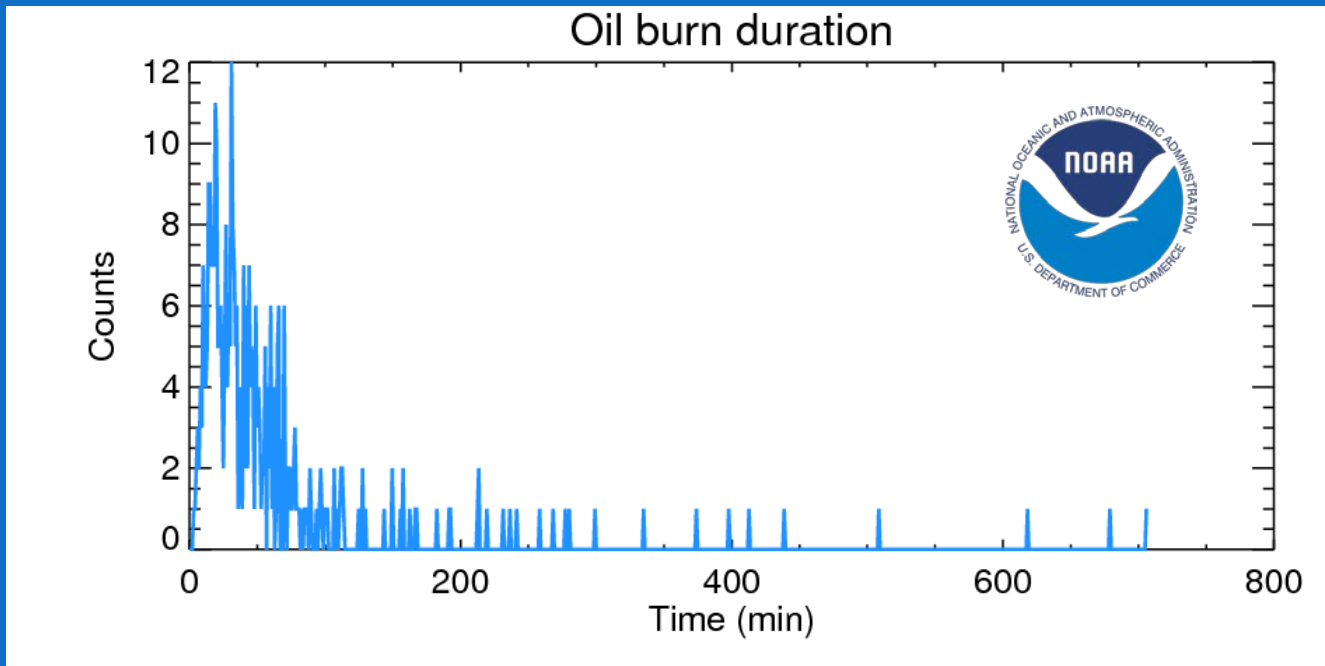


✓ Total estimation : 219986 BBL (min) 309457 BBL (max)

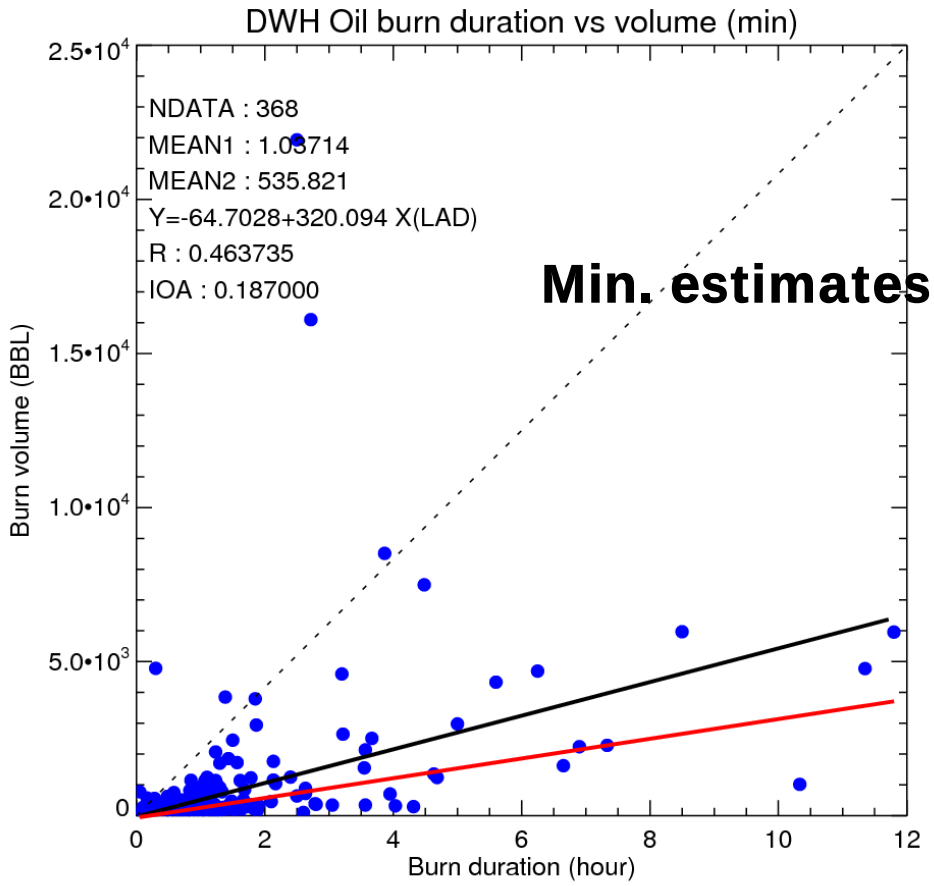


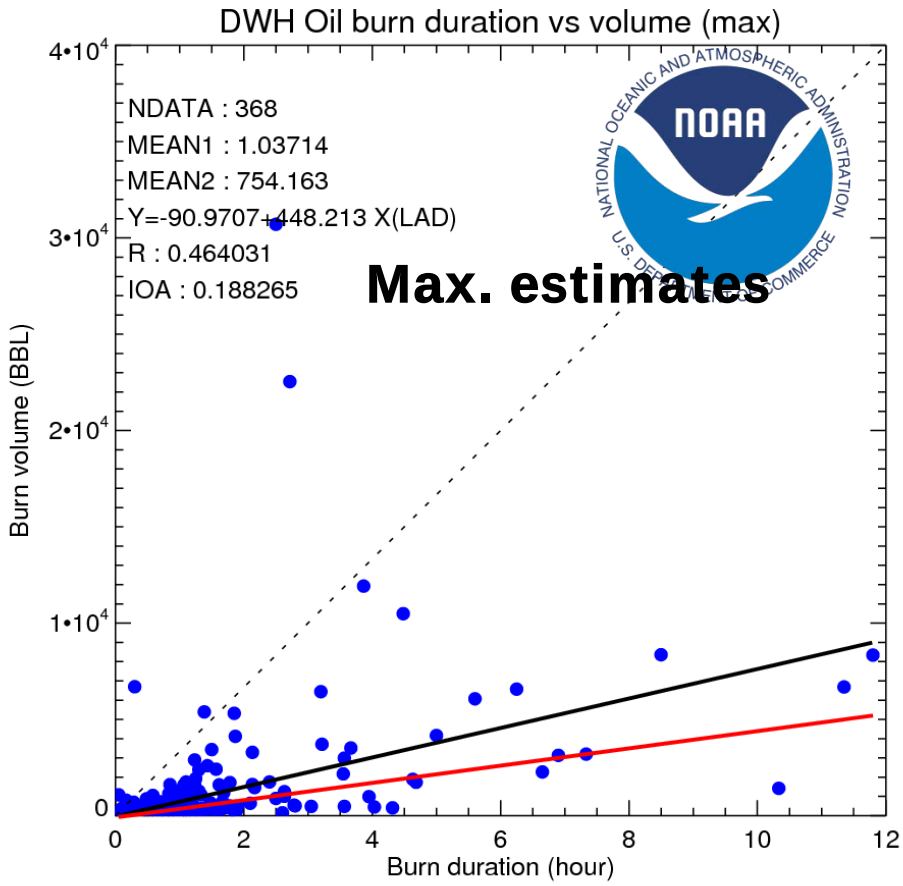
Oil burn start/end times

Oil burn duration



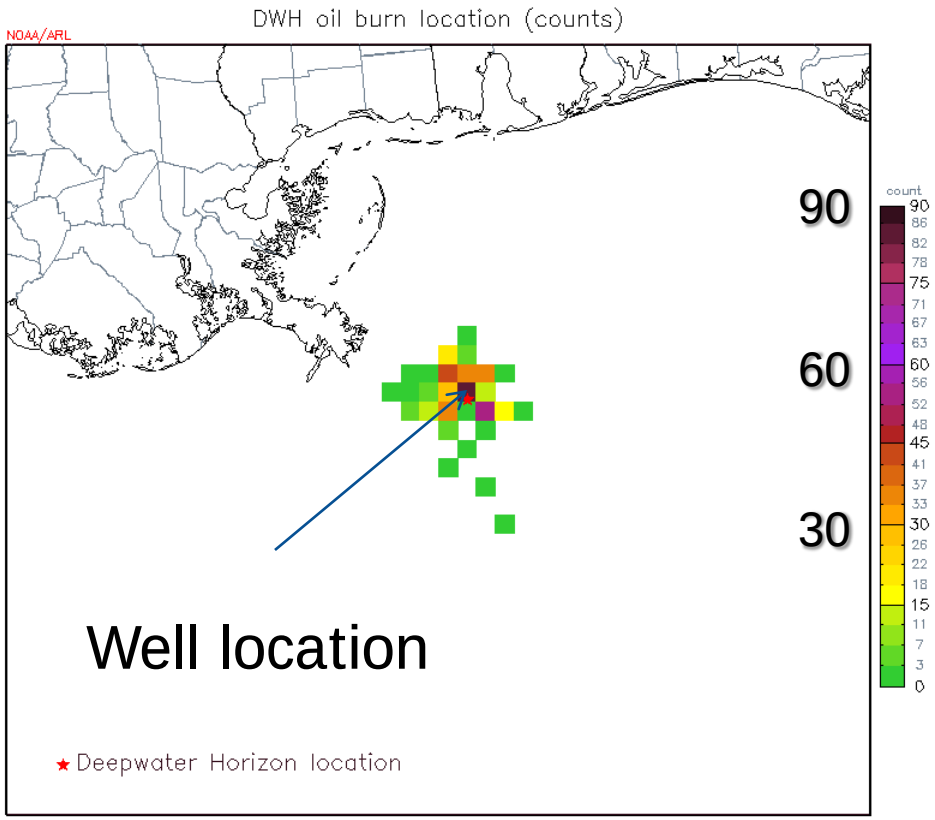
Duration and min/max volume of oil burned



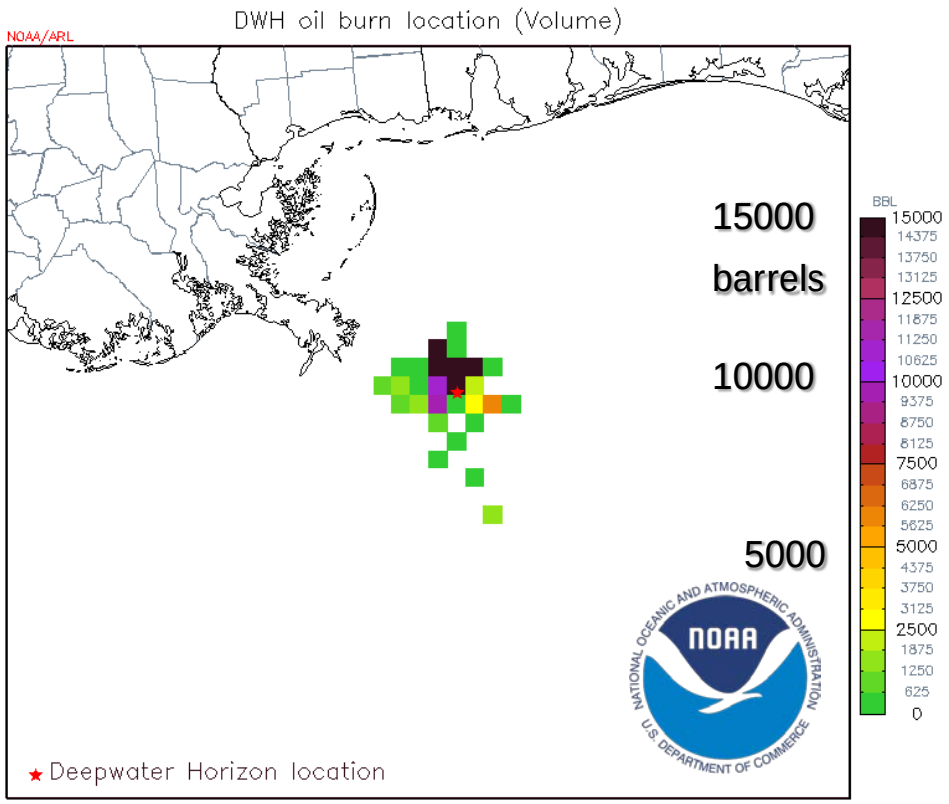


Oil burn locations used for air quality modeling

Burn Counts at each 12x12 km cell



Burn volume (barrels)



- ✓ Numbers are gridded into the NAQFC 12km CONUS domain