This file contains Pandora and surface ozone quick looks for the NASA STAQS campaign for the following 17 Pandora sites on **July 27, 2023**. If a site is not provided there was no data for the given day. The Pandora data is filtered for medium Quality with 0, 1, 10, 11 quality flags.

ManhattanNY-CCNY PGN# 135s1
BayonneNJ PGN# 38s1
BronxNY PGN# 180s1
WestportCT PGN# 177s1
KenoshaWI PGN# 167s1
QueensNY PGN# 140s1
OldFieldNY PGN# 51s1
NewBrunswickNJ PGN# 69s1
Philadelphia-PA PGN# 166s1
Bristol-PA PGN# 134s1
Chicago IL PGN# 249'
WrightwoodCA PGN# 68s1
WhittierCA PGN# 247s1
StGeorge PGN# 109s1
Toronto-Scarborough PGN# 145s1
Toronto-West PGN# 108s1
Downsview PGN# 104s1

Pandora NO_2 and HCHO columns and EPA AQS surface ozone for each STAQS site with the panels describing the following:

a) The last 30 days of hourly Pandora columns from the direct sun (blue) and MAX-DOAS (black) retrievals for NO_2.
b) Same as a) for HCHO.
c) The last 30 days of hourly surface ozone for the nearest EPA AQS monitor during daytime to the Pandora instrument with the distance to that site and its AQS site name given in the legend.
d) The Pandora direct sun (green) and MAX-DOAS (red) NO_2 columns (6-18 LT) for the given day and the hourly average over the previous 30 days for the direct sun (blue) and MAX-DOAS (black) associated with panel a). The number of days with valid data for each hourly average point over the previous 30 days are annotated.
e) Same as d) for HCHO.
f) The diurnal profile of surface ozone for the given day (red) and the last 30 days (black) with the number of days with valid ozone data given for each average data point with 1 sigma.

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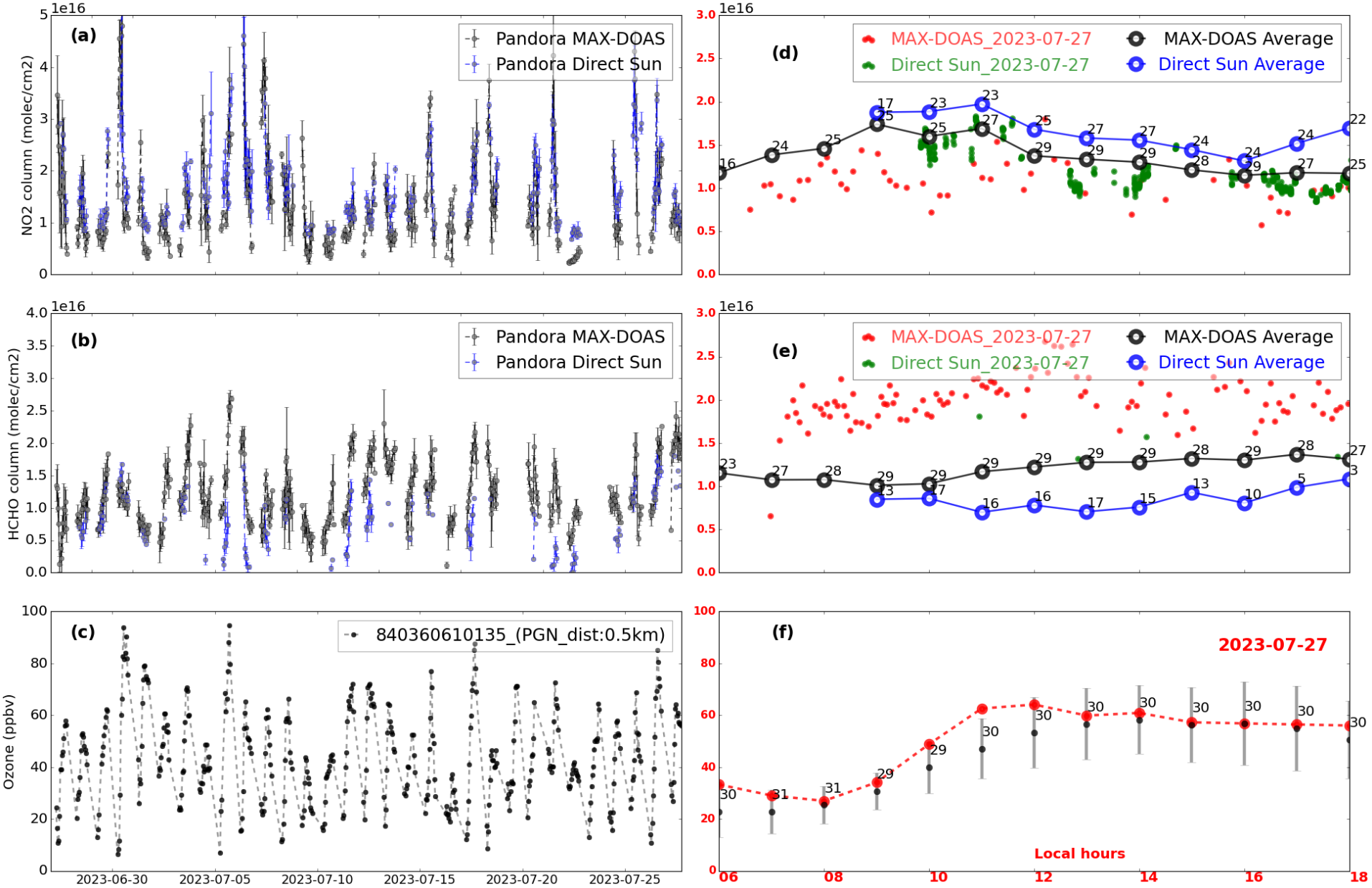
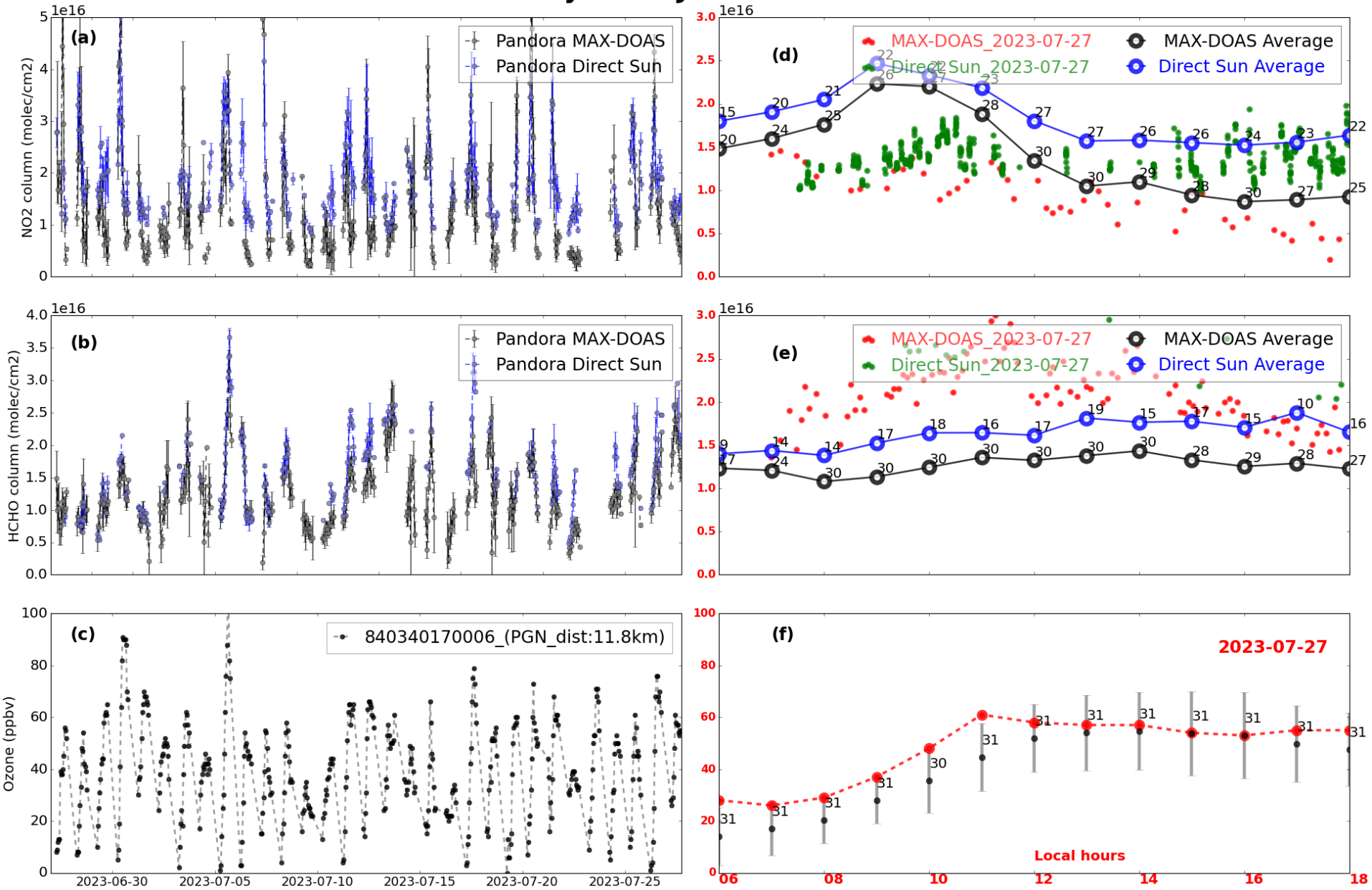
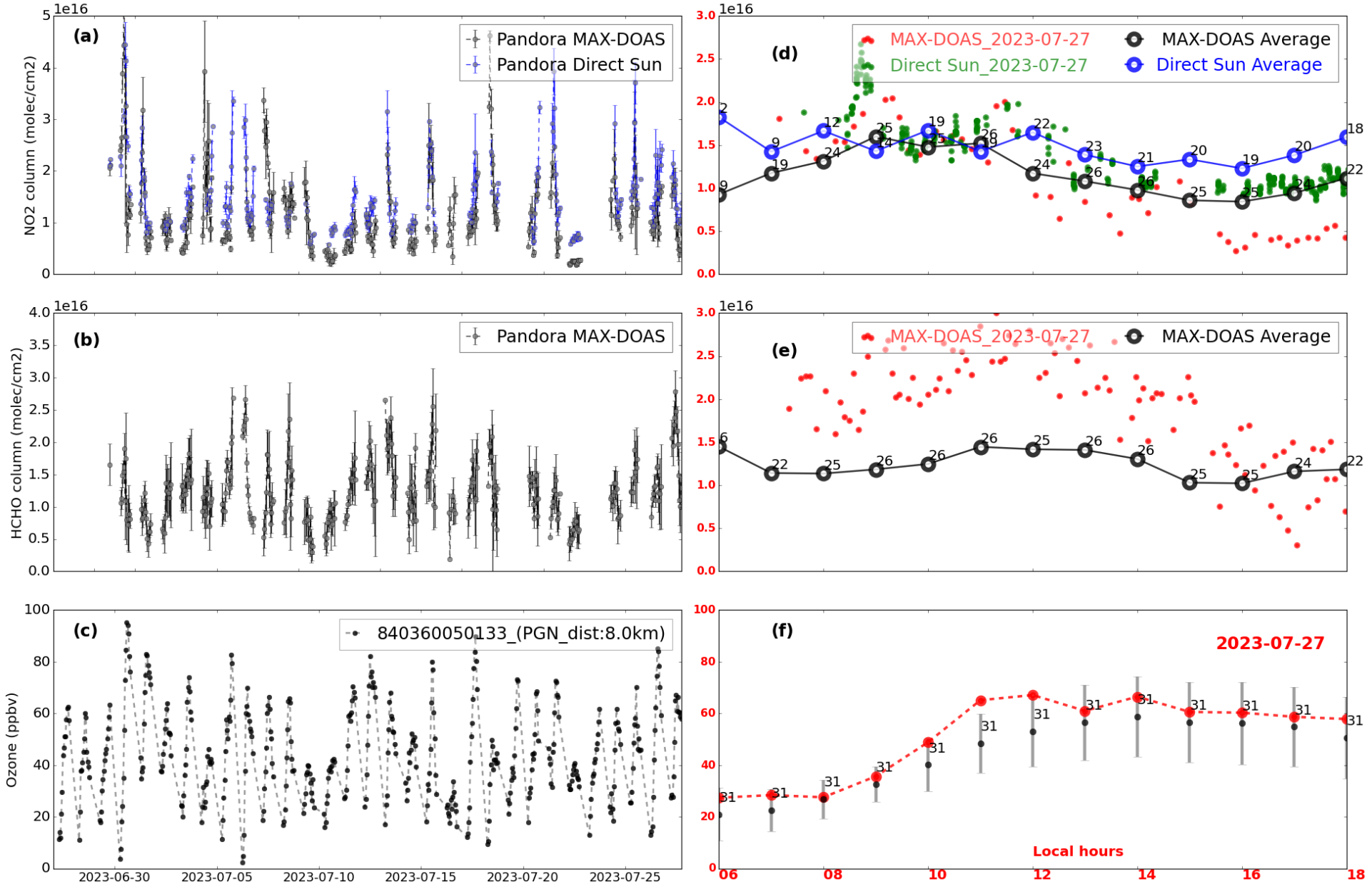
ManhattanNY PGN# 135s1

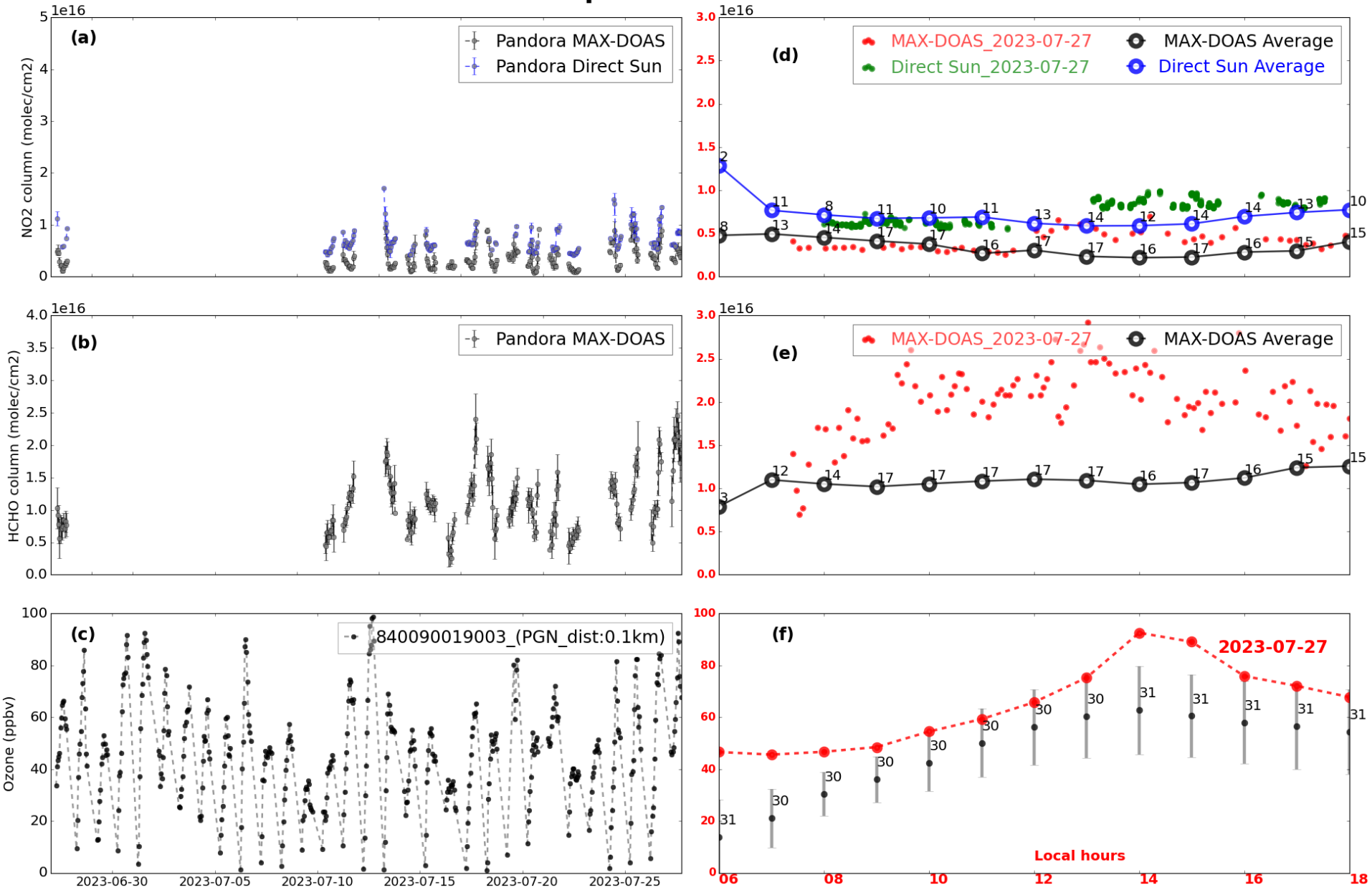


BayonneNJ PGN# 38s1

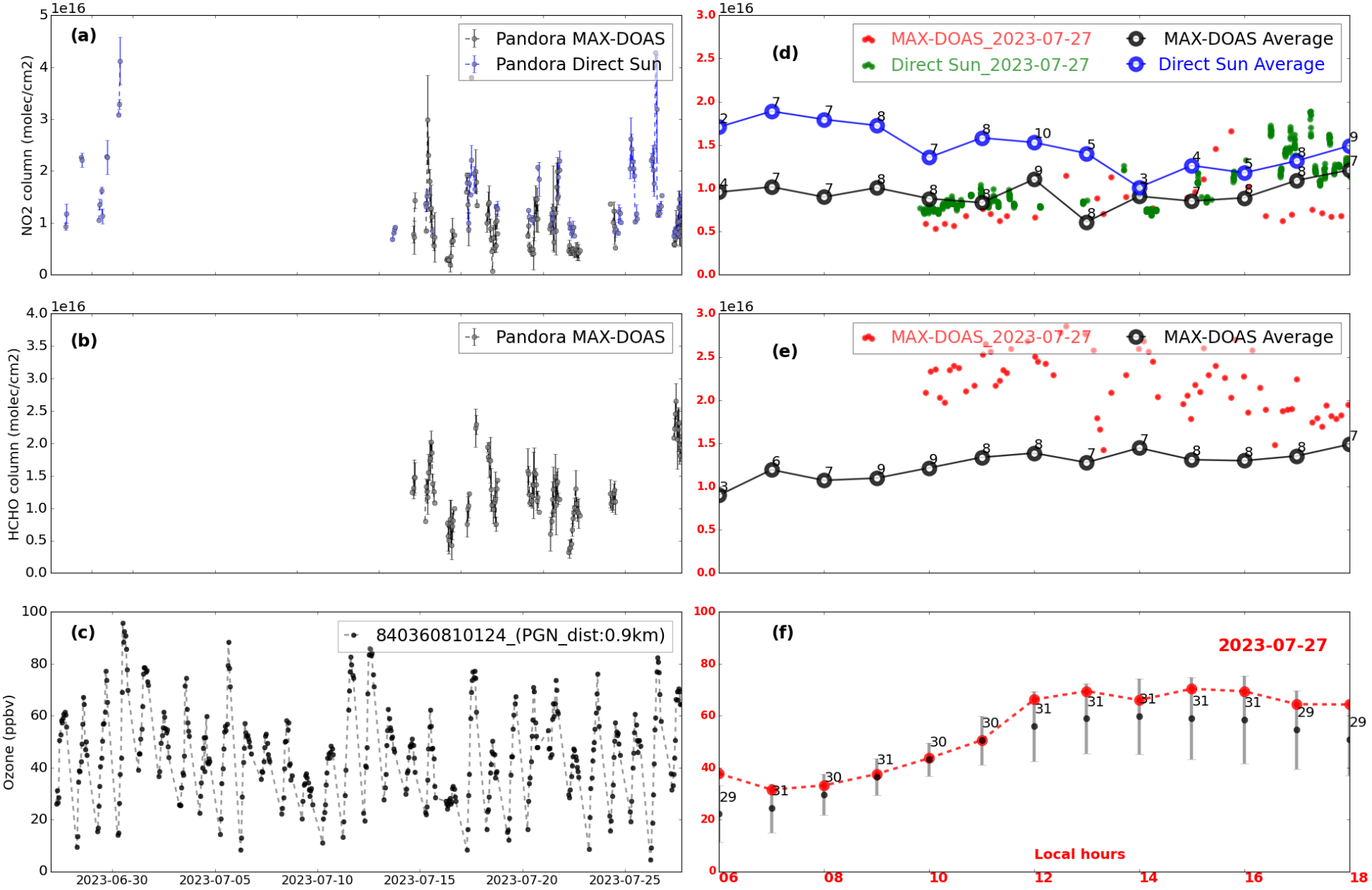



BronxNY PGN# 180s1
(a)
1e16
NO2 column (molec/cm2)
Pandora MAX-DOAS
Pandora Direct Sun
(b)
1e16
HCHO column (molec/cm2)
Pandora MAX-DOAS
(c)
Ozone (ppbv)
840360050133_(PGN_dist:8.0km)
2023-06-30
2023-07-05
2023-07-10
2023-07-15
2023-07-20
2023-07-25
(d)
1e16
MAX-DOAS_2023-07-27
Direct Sun_2023-07-27
MAX-DOAS Average
Direct Sun Average
(e)
1e16
MAX-DOAS_2023-07-27
MAX-DOAS Average
(f)
2023-07-27
Local hours
06
08
10
12
14
16
18

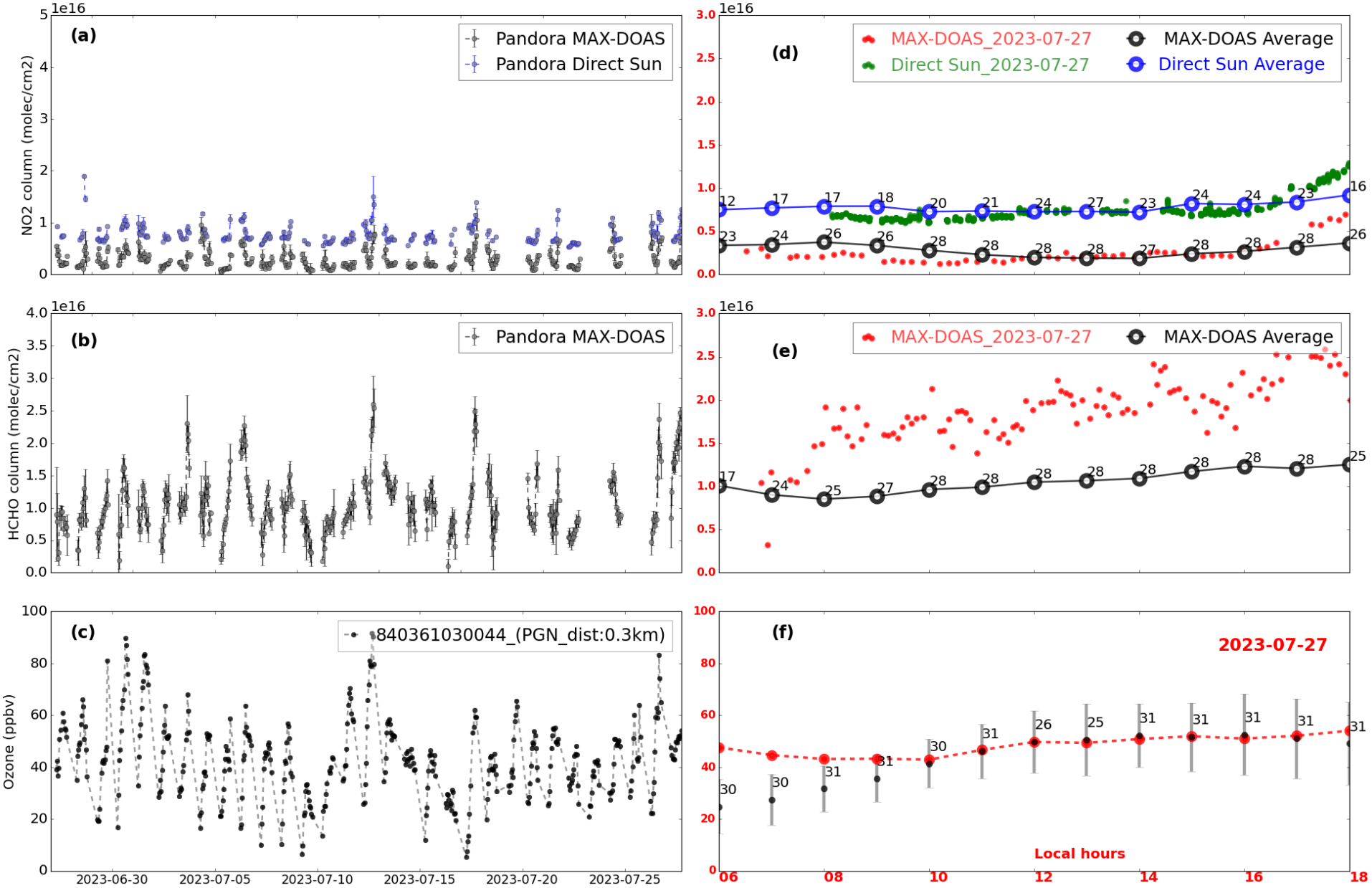
WestportCT PGN# 177s1



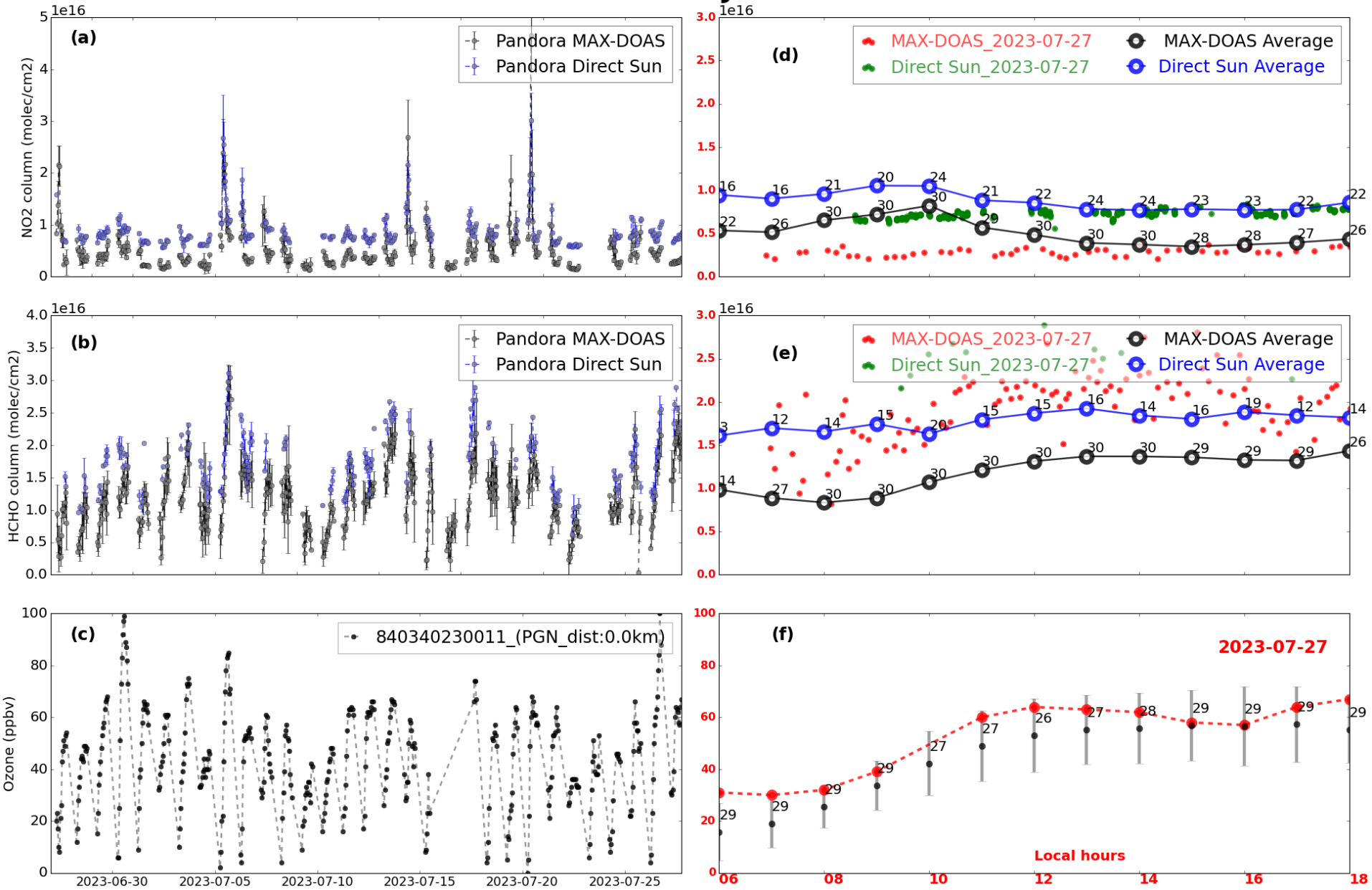
QueensNY PGN# 140s1



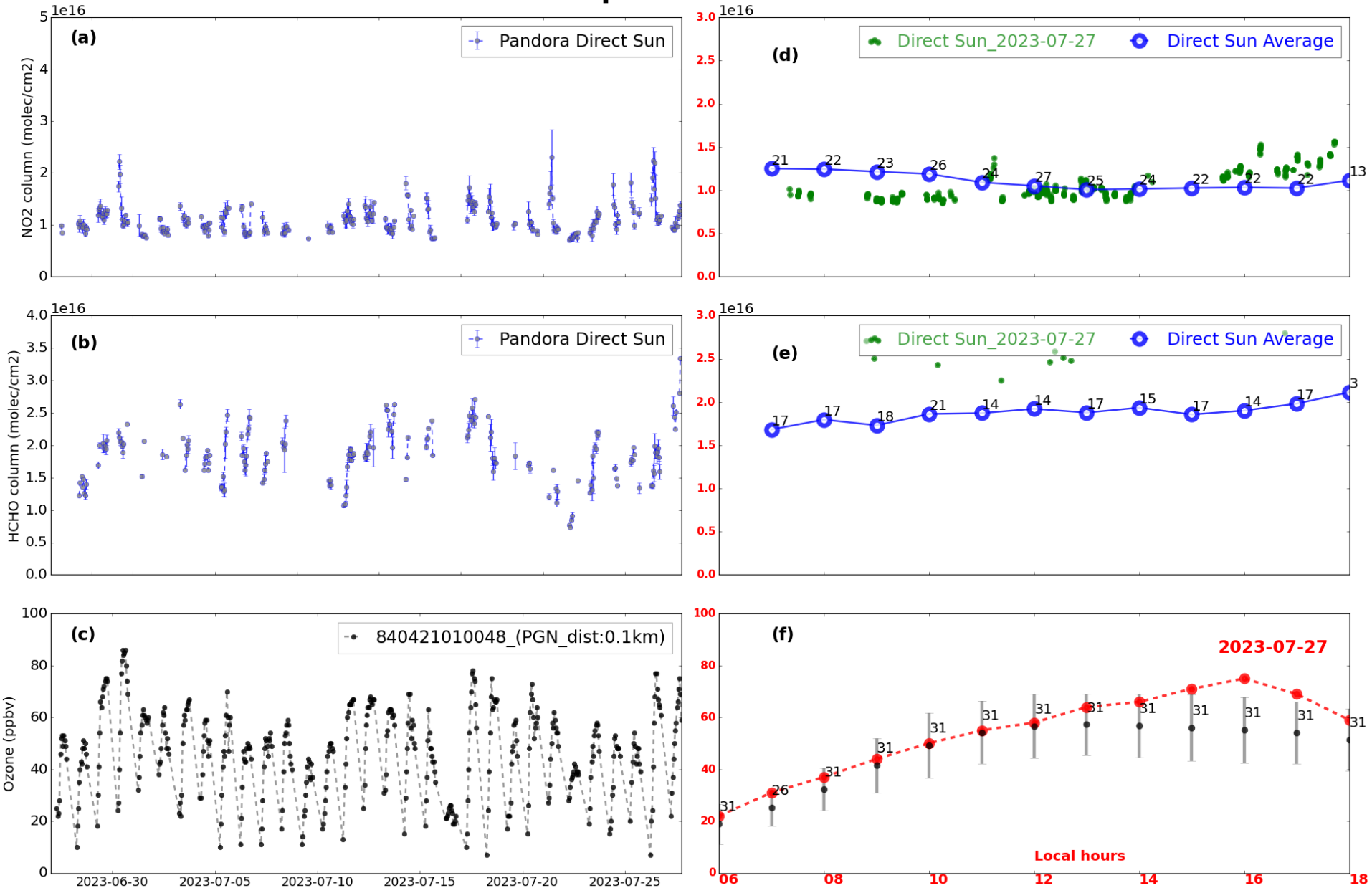
OldFieldNY PGN# 51s1



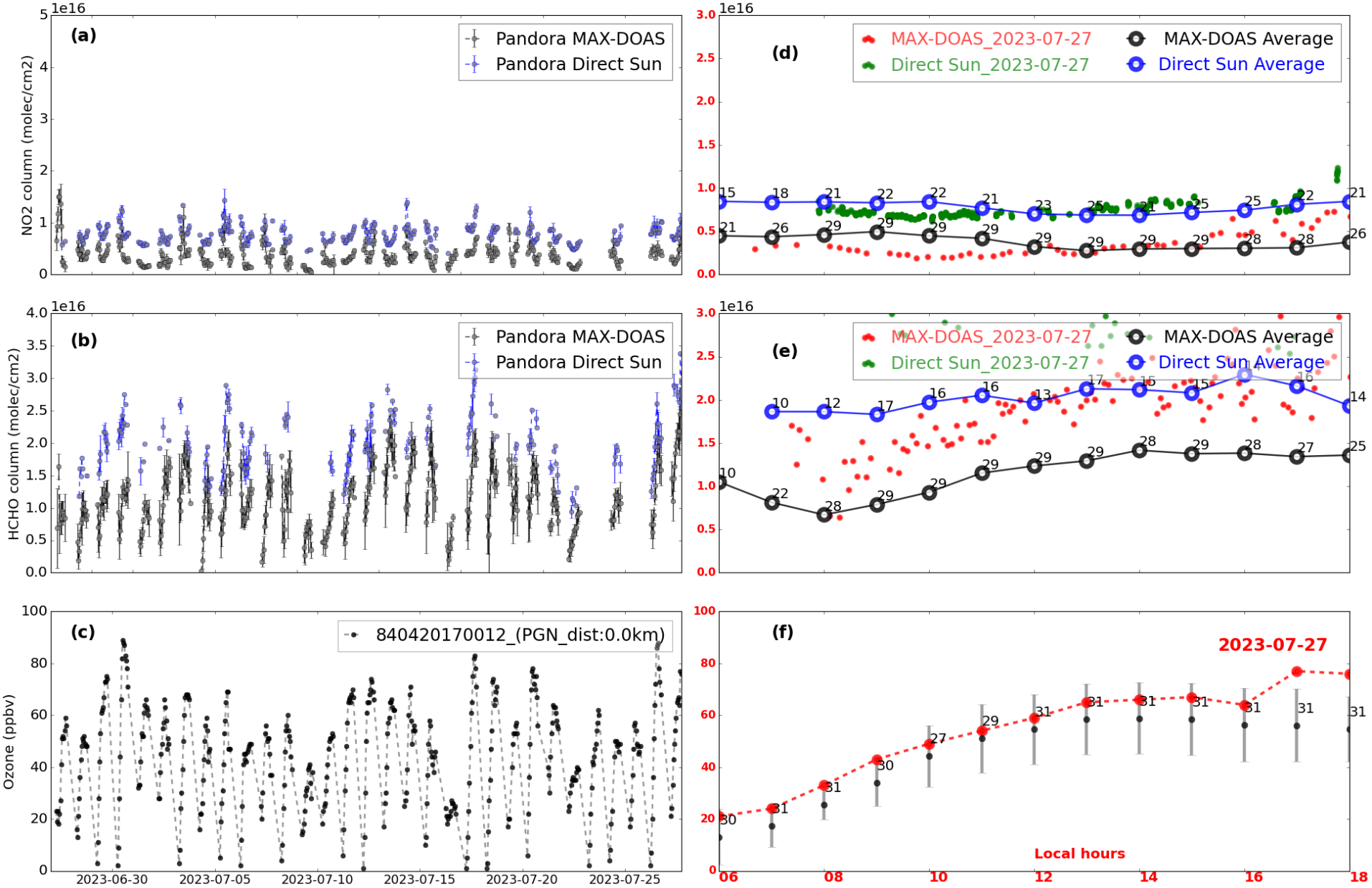
NewBrunswickNJ PGN# 69s1



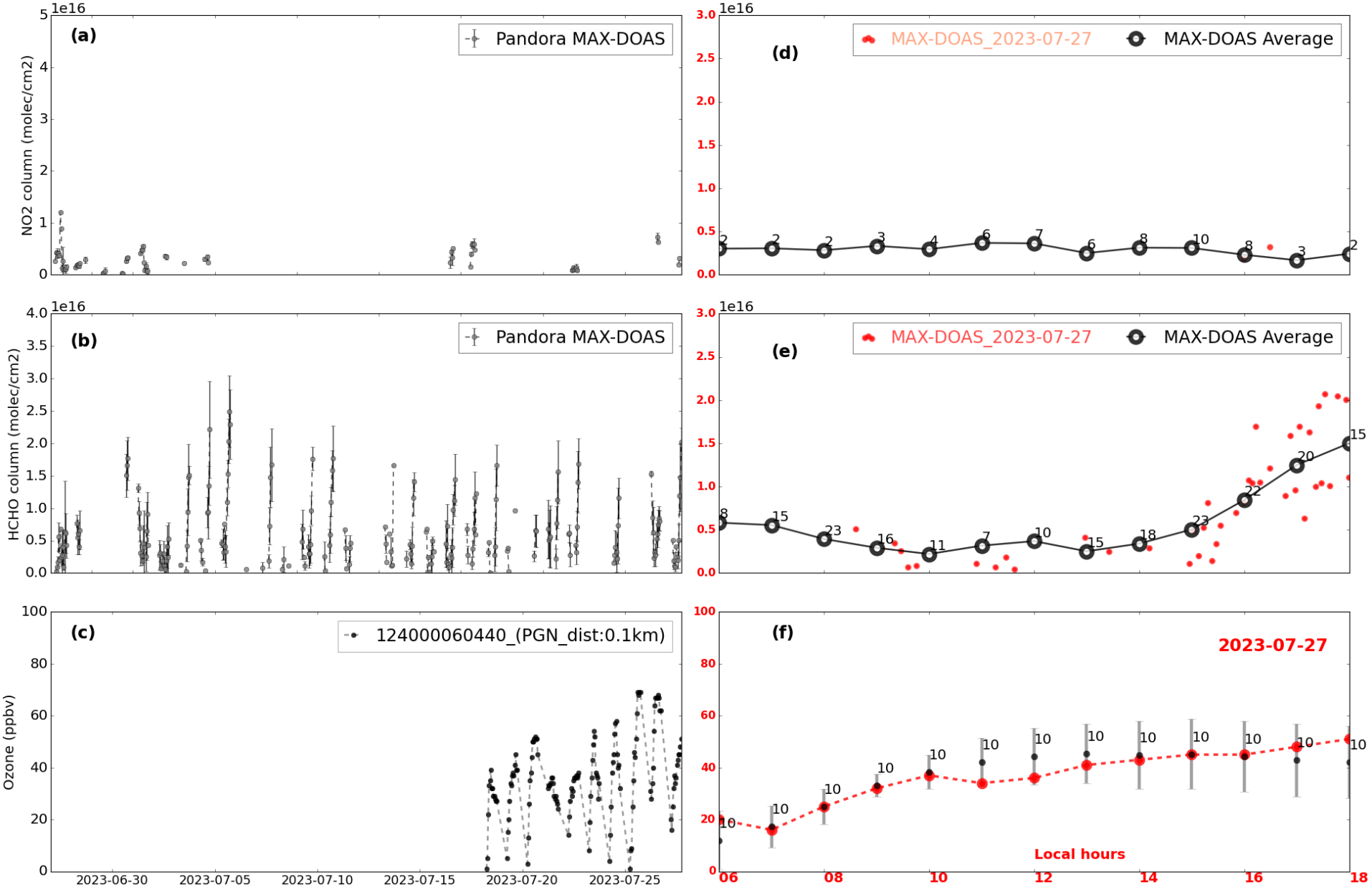
Philadelphia-PA PGN# 166s1



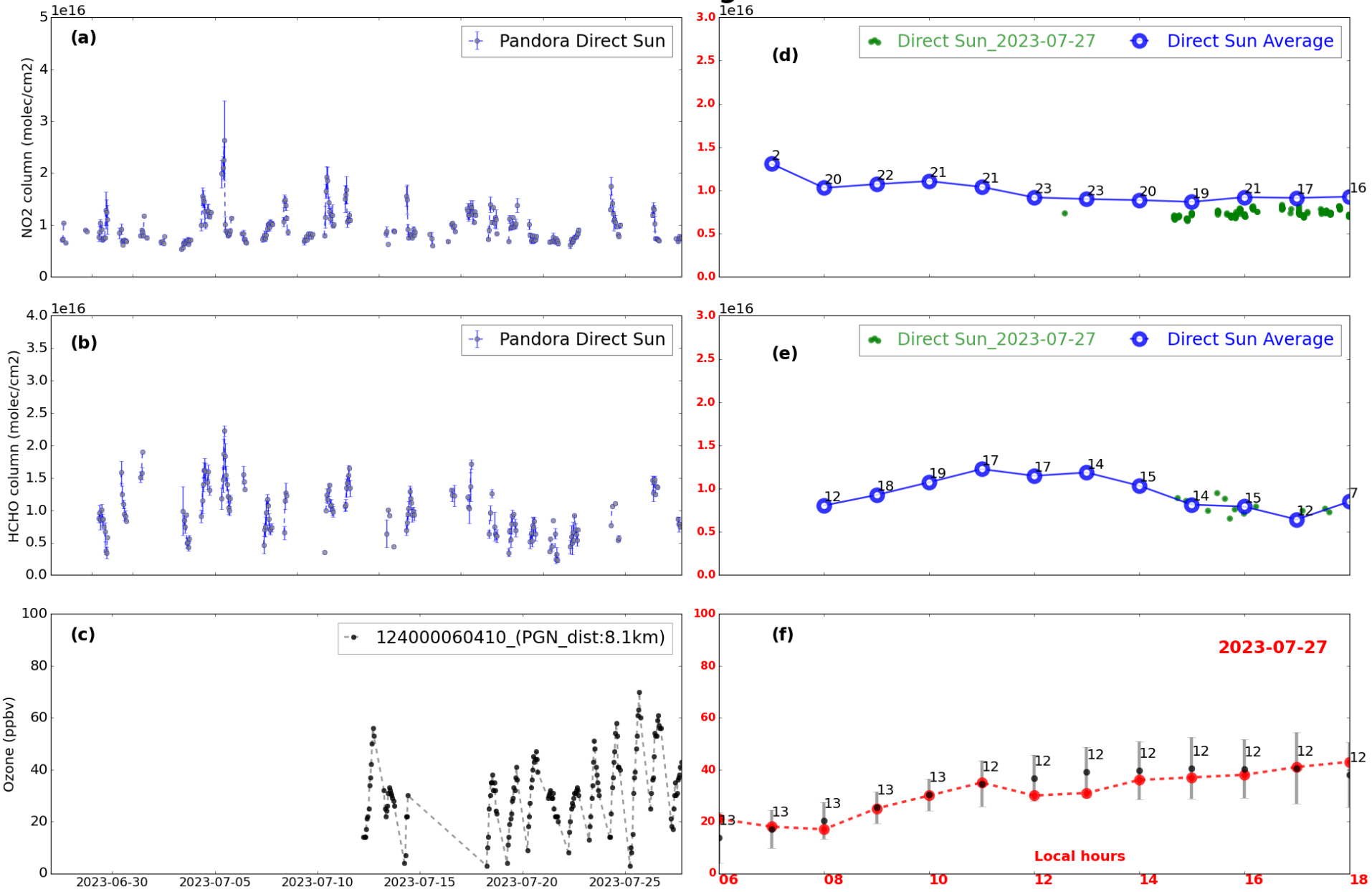
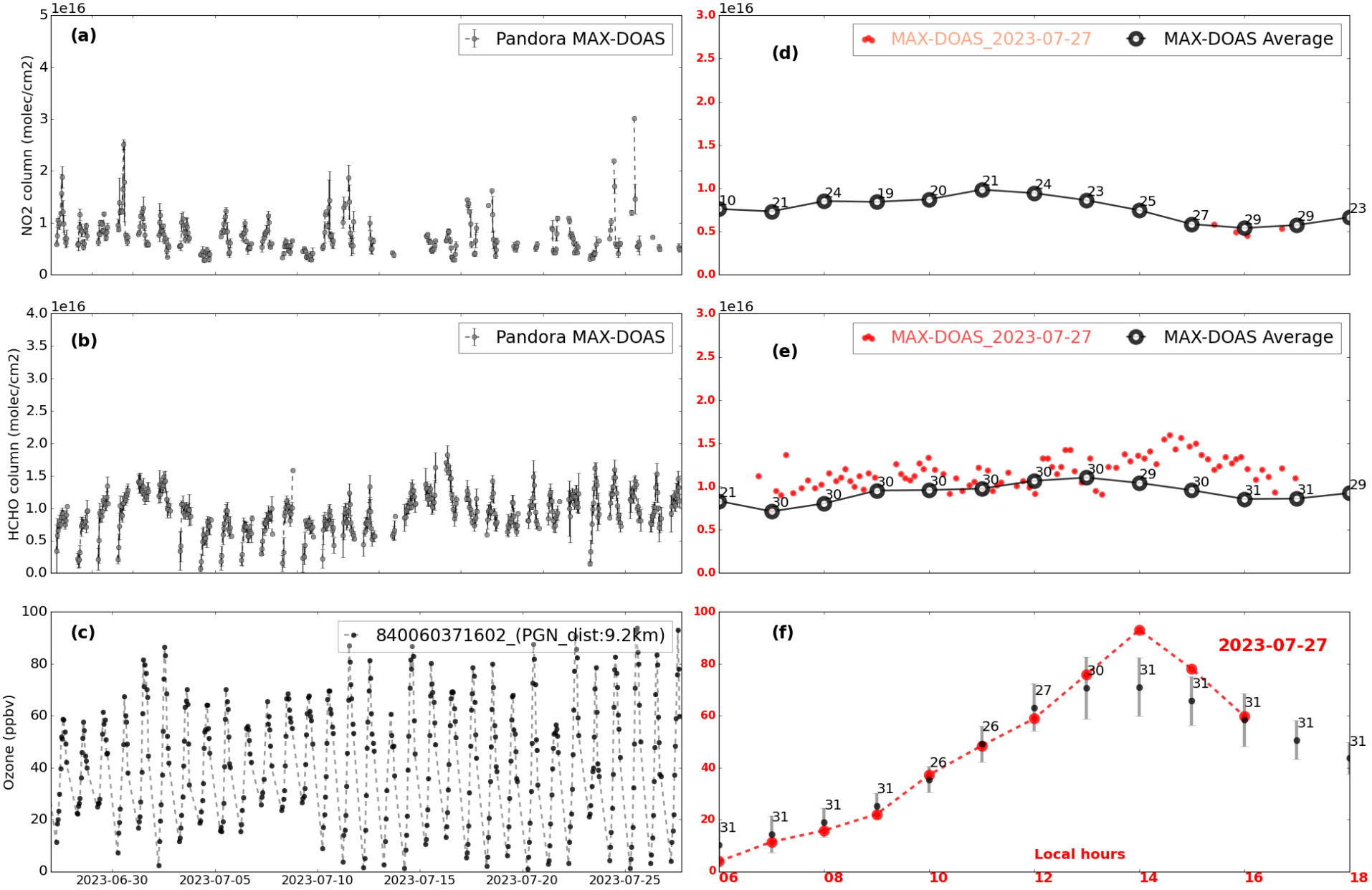
Bristol-PA PGN# 134s1



Downsview PGN# 104s1



Toronto-Scarborough PGN# 145s1



WhittierCA PGN# 247s1