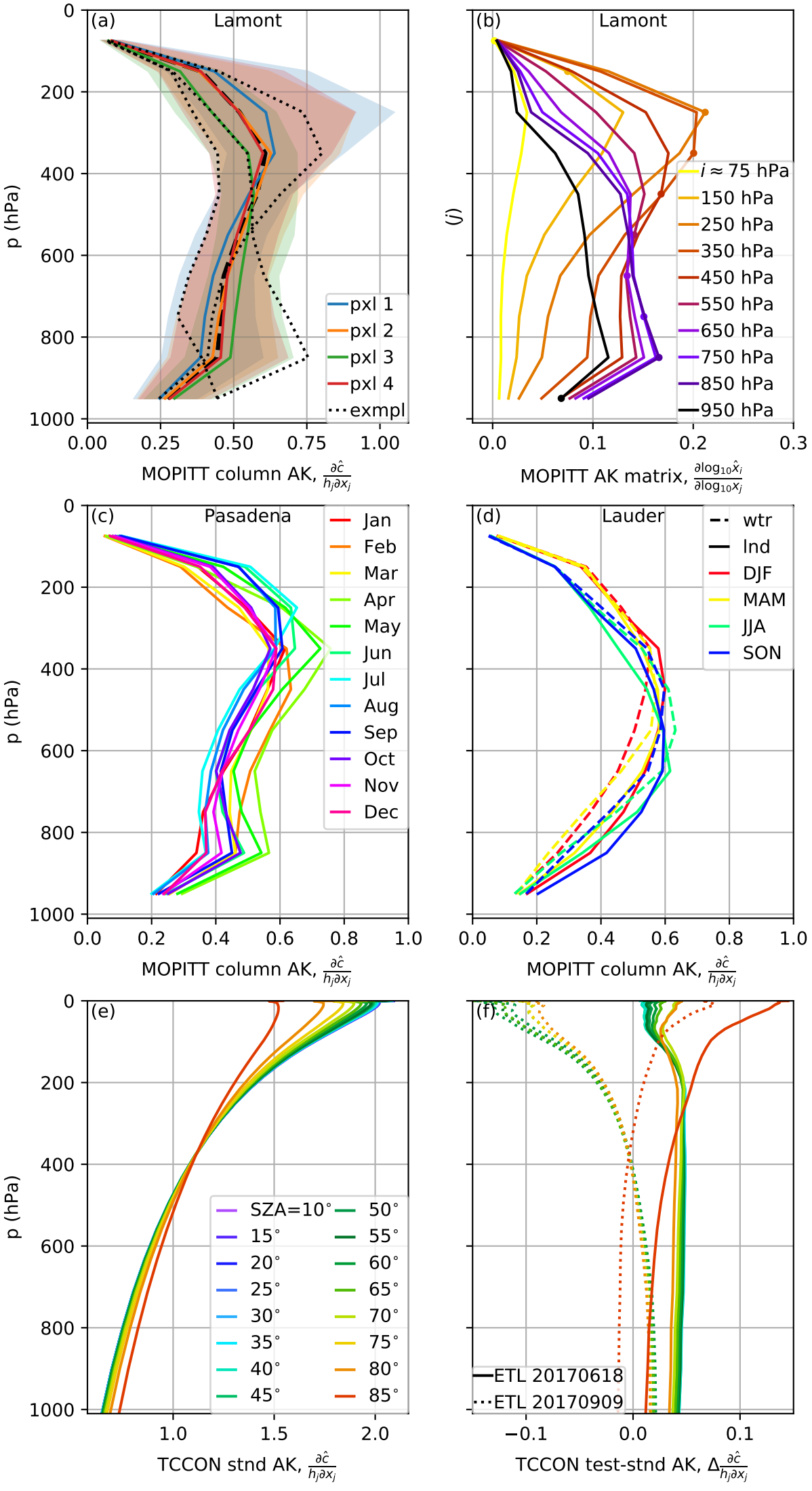
(a)
Lamont
p (hPa)
pxl 1
pxl 2
pxl 3
pxl 4
exmpl
MOPITT column AK, $\frac{\partial \hat{c}}{h_j \partial x_j}$
(b)
Lamont
(j)
$i \approx$ 75 hPa
150 hPa
250 hPa
350 hPa
450 hPa
550 hPa
650 hPa
750 hPa
850 hPa
950 hPa
MOPITT AK matrix, $\frac{\partial \log_{10} \hat{x}_i}{\partial \log_{10} x_j}$
(c)
Pasadena
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
MOPITT column AK, $\frac{\partial \hat{c}}{h_j \partial x_j}$
(d)
Lauder
wtr
Ind
DJF
MAM
JJA
SON
MOPITT column AK, $\frac{\partial \hat{c}}{h_j \partial x_j}$
(e)
SZA=10°
15°
20°
25°
30°
35°
40°
45°
50°
55°
60°
65°
70°
75°
80°
85°
TCCON stnd AK, $\frac{\partial \hat{c}}{h_j \partial x_j}$
(f)
ETL 20170618
ETL 20170909
TCCON test-stnd AK, $\Delta \frac{\partial \hat{c}}{h_j \partial x_j}$