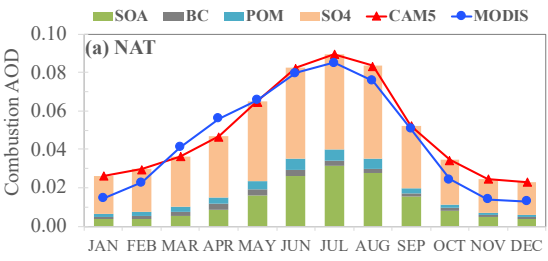
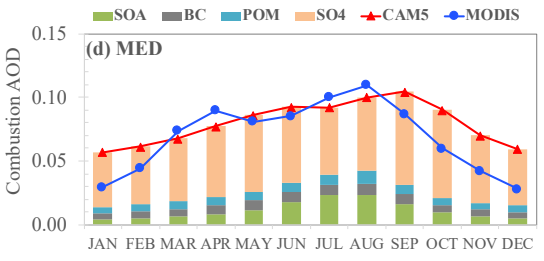
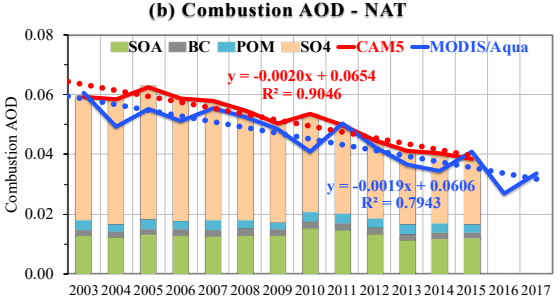
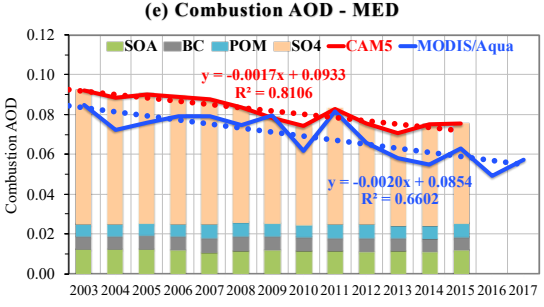
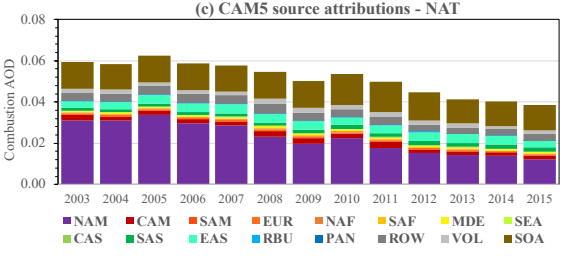
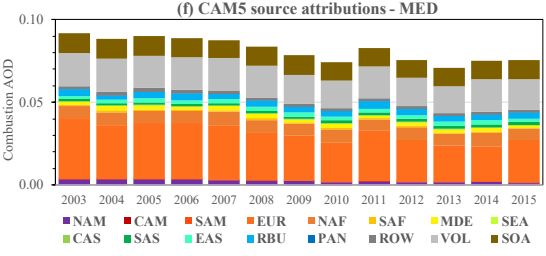

SOA
BC
POM
SO4
CAM5
MODIS
(a) NAT
Combustion AOD
0.10
0.08
0.06
0.04
0.02
0.00
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC


SOA
BC
POM
SO4
CAM5
MODIS
(d) MED
Combustion AOD
0.15
0.10
0.05
0.00
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC


(b) Combustion AOD - NAT
SOA
BC
POM
SO4
CAM5
MODIS/Aqua
y = -0.0020x + 0.0654
R² = 0.9046
y = -0.0019x + 0.0606
R² = 0.7943
Combustion AOD
0.08
0.06
0.04
0.02
0.00
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017


(e) Combustion AOD - MED
SOA
BC
POM
SO4
CAM5
MODIS/Aqua
y = -0.0017x + 0.0933
R² = 0.8106
y = -0.0020x + 0.0854
R² = 0.6602
Combustion AOD
0.12
0.10
0.08
0.06
0.04
0.02
0.00
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017


(c) CAM5 source attributions - NAT
Combustion AOD
0.08
0.06
0.04
0.02
0.00
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015
NAM
CAM
SAM
EUR
NAF
SAF
MDE
SEA
CAS
SAS
EAS
RBU
PAN
ROW
VOL
SOA


(f) CAM5 source attributions - MED
Combustion AOD
0.10
0.05
0.00
2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015
NAM
CAM
SAM
EUR
NAF
SAF
MDE
SEA
CAS
SAS
EAS
RBU
PAN
ROW
VOL
SOA