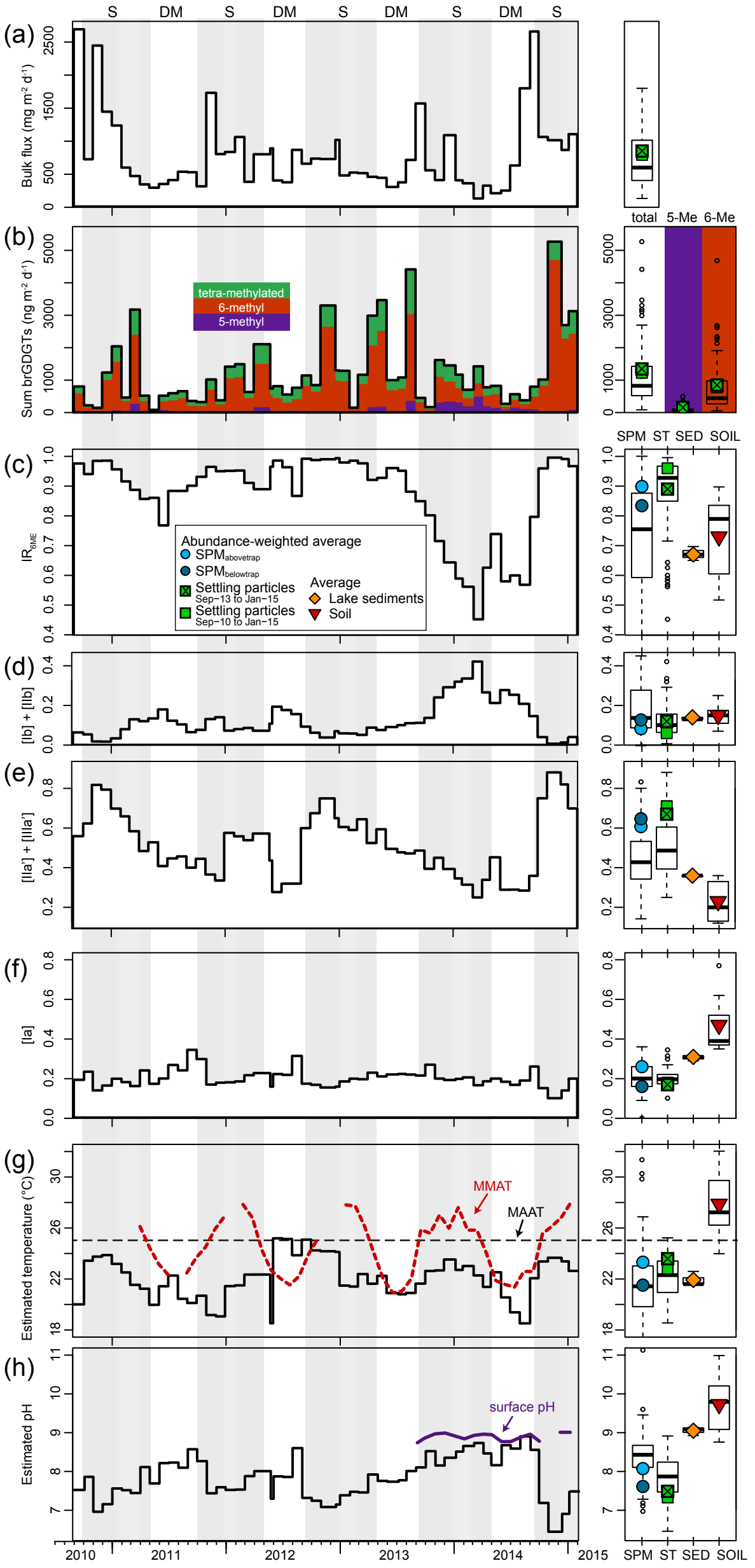
S
DM
S
DM
S
DM
S
DM
S
(a)
Bulk flux (mg m-2 d-1)
0
500
1500
2500
(b)
Sum brGDGTs (ng m-2 d-1)
0
1000
3000
5000
tetra-methylated
6-methyl
5-methyl
total
5-Me
6-Me
(c)
IR6ME
0.4
0.5
0.6
0.7
0.8
0.9
1.0
Abundance-weighted average
SPMabovetrap
SPMbelowtrap
Settling particles
Sep−13 to Jan−15
Settling particles
Sep−10 to Jan−15
Average
Lake sediments
Soil
SPM
ST
SED
SOIL
(d)
[Ib] + [IIb]
0.0
0.2
0.4
(e)
[IIa'] + [IIIa']
0.2
0.4
0.6
0.8
(f)
[Ia]
0.0
0.2
0.4
0.6
0.8
(g)
Estimated temperature (°C)
18
22
26
30
MMAT
MAAT
(h)
Estimated pH
7
8
9
10
11
surface pH
2010
2011
2012
2013
2014
2015
SPM
ST
SED
SOIL