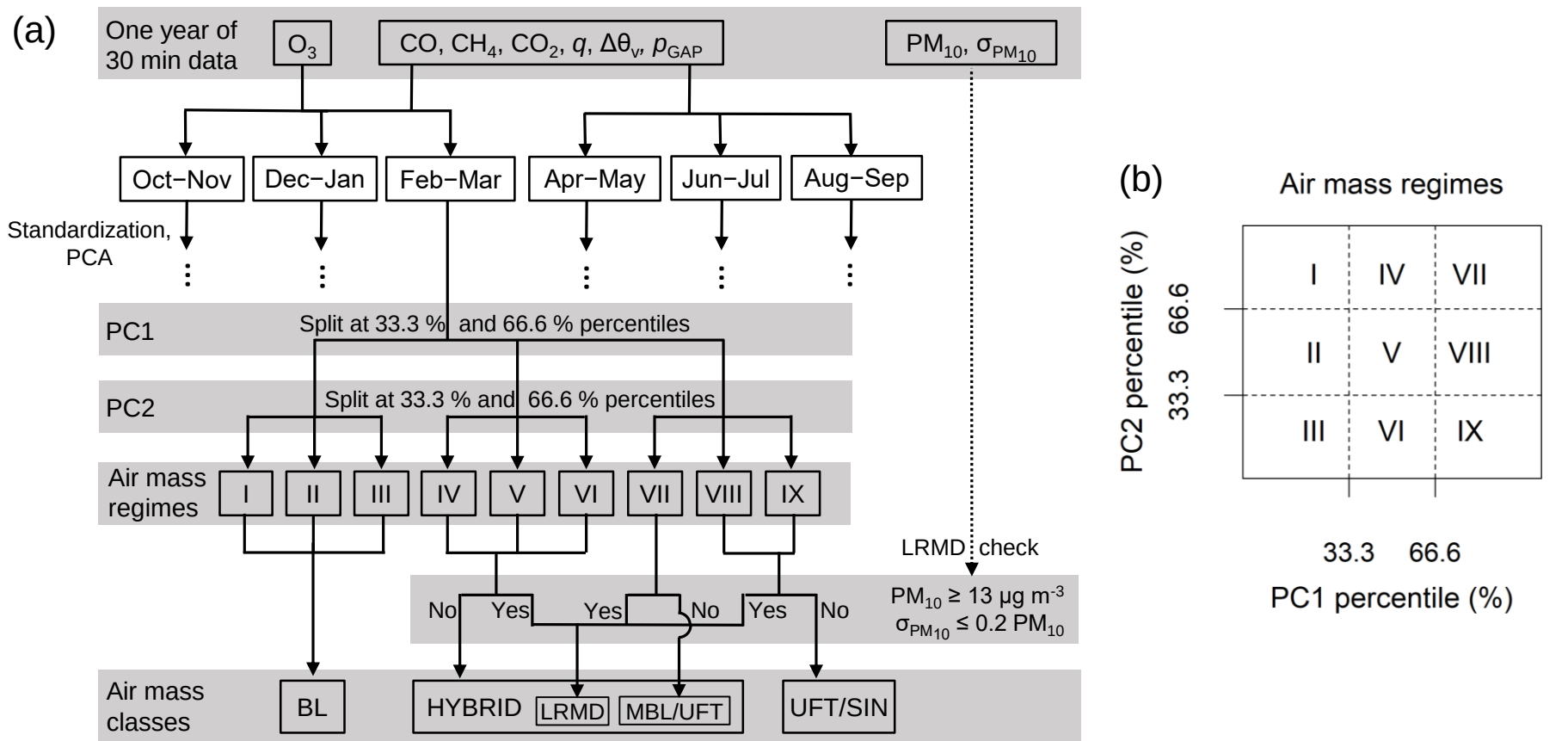
(a)
One year of 30 min data
O_3
CO, CH_4, CO_2, q, $\Delta\theta_v$, p_{GAP}
PM_{10}, $\sigma_{PM_{10}}$
Oct−Nov
Dec−Jan
Feb−Mar
Apr−May
Jun−Jul
Aug−Sep
Standardization, PCA
PC1
Split at 33.3 % and 66.6 % percentiles
PC2
Split at 33.3 % and 66.6 % percentiles
Air mass regimes
I
II
III
IV
V
VI
VII
VIII
IX
LRMD check
No
Yes
Yes
No
Yes
No
$PM_{10} \geq 13$ µg m^{-3}
$\sigma_{PM_{10}} \leq 0.2\ PM_{10}$
Air mass classes
BL
HYBRID
LRMD
MBL/UFT
UFT/SIN
(b)
Air mass regimes
PC2 percentile (%)
66.6
33.3
I
IV
VII
II
V
VIII
III
VI
IX
33.3
66.6
PC1 percentile (%)