

(a)

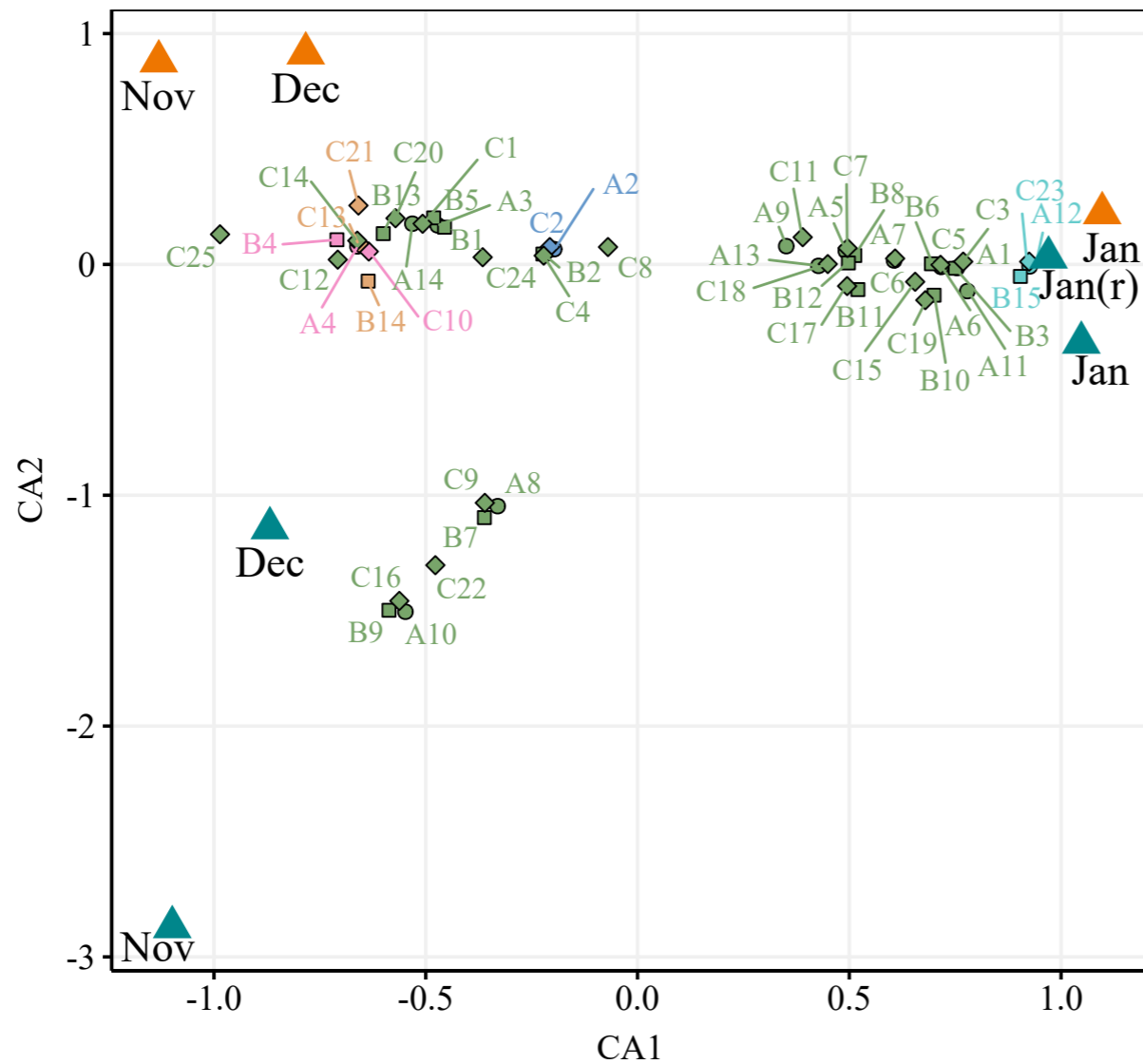
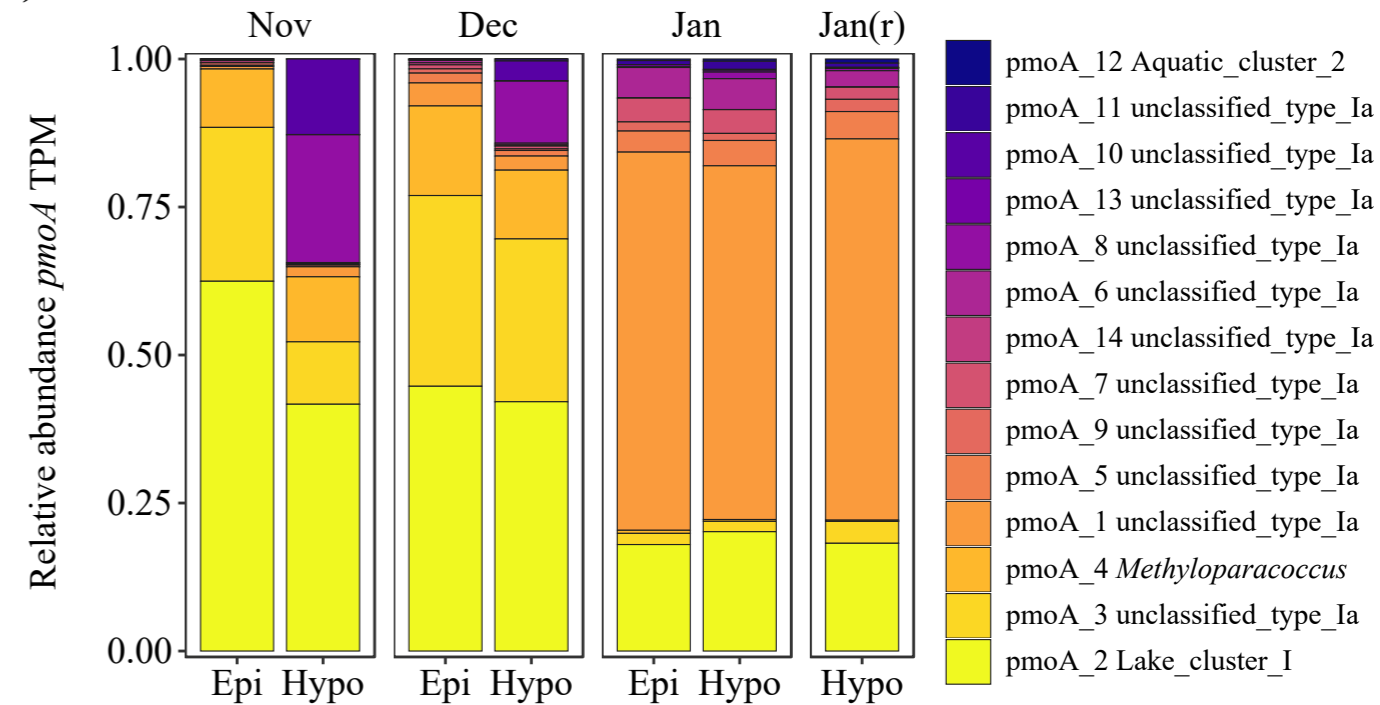
▲ Epilimnion
▲ Hypolimnion

Gene

○ *pmoA*
□ *pmoB*
◇ *pmoC*

Taxonomy

● unclassified_type_Ia
● Lake_cluster_I
● Aquatic_cluster_2
● *Methyloparacoccus*
● unclassified_type_II

**(b)****(c)**