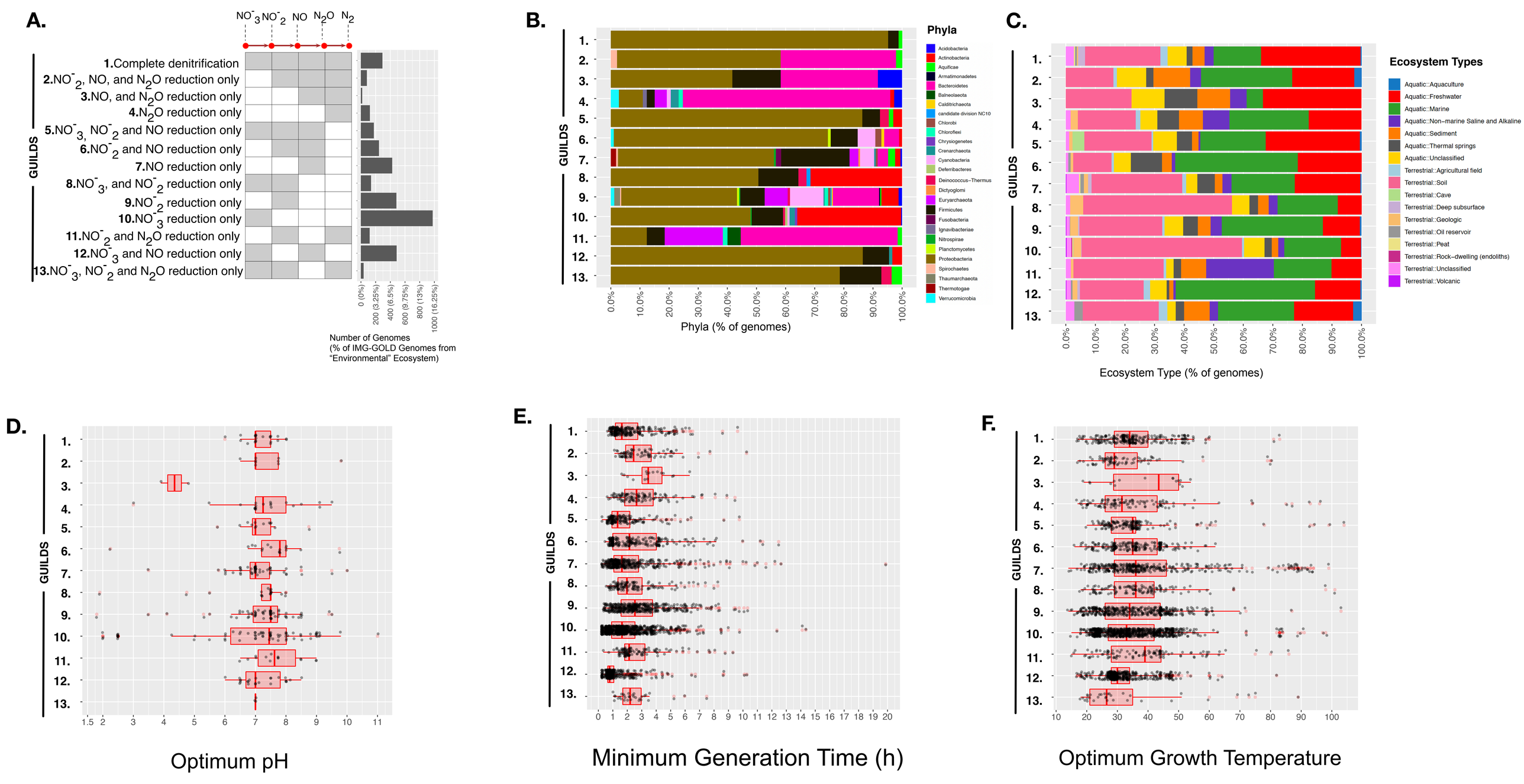
A.
NO-3 NO-2 NO N2O N2
GUILDS
1.Complete denitrification
2.NO-2, NO, and N2O reduction only
3.NO, and N2O reduction only
4.N2O reduction only
5.NO-3, NO-2 and NO reduction only
6.NO-2 and NO reduction only
7.NO reduction only
8.NO-3, and NO-2 reduction only
9.NO-2 reduction only
10.NO-3 reduction only
11.NO-2 and N2O reduction only
12.NO-3 and NO reduction only
13.NO-3, NO-2 and N2O reduction only
0 (0%)
200 (3.25%)
400 (6.5%)
600 (9.75%)
800 (13%)
1000 (16.25%)
Number of Genomes
(% of IMG-GOLD Genomes from
"Environmental" Ecosystem)
B.
GUILDS
Phyla (% of genomes)
Phyla
Acidobacteria
Actinobacteria
Aquificae
Armatimonadetes
Bacteroidetes
Balneolaeota
Calditrichaeota
candidate division NC10
Chlorobi
Chloroflexi
Chrysiogenetes
Crenarchaeota
Cyanobacteria
Deferribacteres
Deinococcus–Thermus
Dictyoglomi
Euryarchaeota
Firmicutes
Fusobacteria
Ignavibacteriae
Nitrospirae
Planctomycetes
Proteobacteria
Spirochaetes
Thaumarchaeota
Thermotogae
Verrucomicrobia
C.
GUILDS
Ecosystem Type (% of genomes)
Ecosystem Types
Aquatic::Aquaculture
Aquatic::Freshwater
Aquatic::Marine
Aquatic::Non–marine Saline and Alkaline
Aquatic::Sediment
Aquatic::Thermal springs
Aquatic::Unclassified
Terrestrial::Agricultural field
Terrestrial::Soil
Terrestrial::Cave
Terrestrial::Deep subsurface
Terrestrial::Geologic
Terrestrial::Oil reservoir
Terrestrial::Peat
Terrestrial::Rock–dwelling (endoliths)
Terrestrial::Unclassified
Terrestrial::Volcanic
D.
GUILDS
Optimum pH
E.
GUILDS
Minimum Generation Time (h)
F.
GUILDS
Optimum Growth Temperature