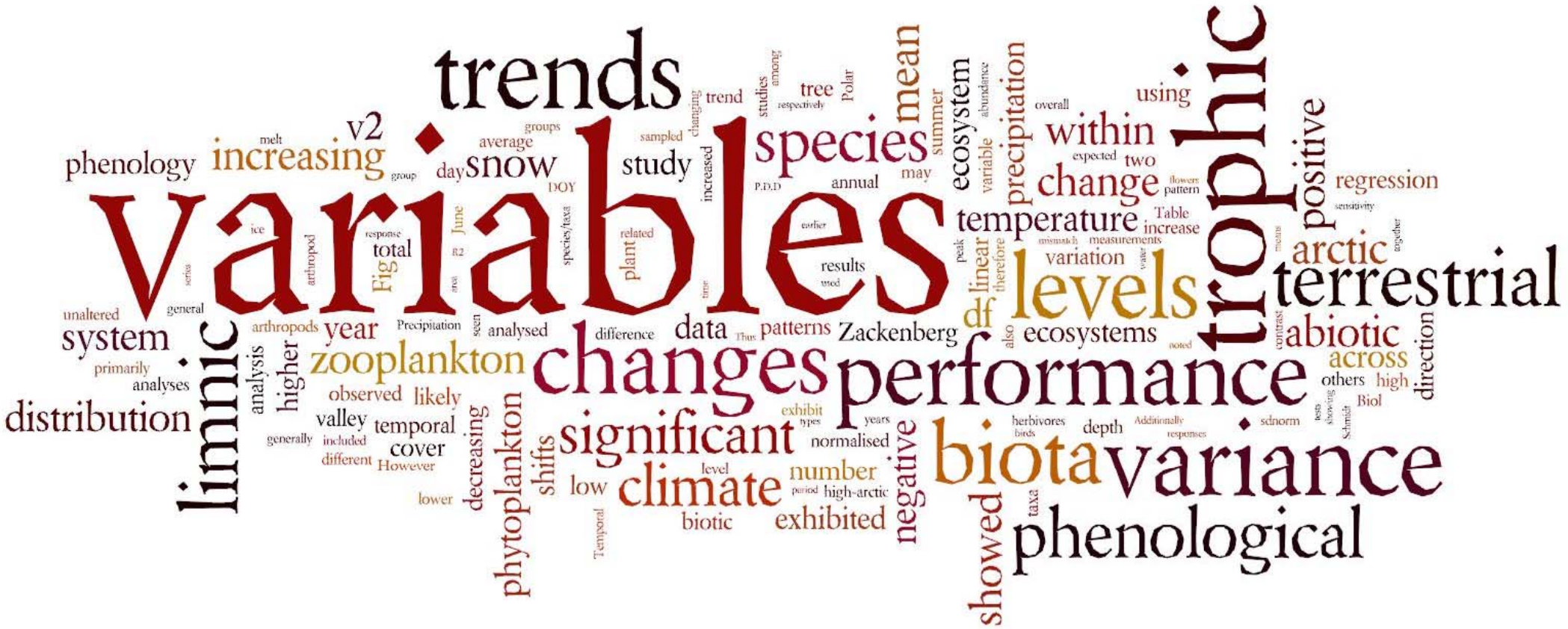
variables
trends
trophic
species
mean
within
change
positive
regression
temperature
levels
terrestrial
arctic
abiotic
across
direction
changes
performance
biota
variance
phenological
significant
climate
zooplankton
limnic
distribution
system
phenology
increasing
v2
snow
study
ecosystem
precipitation
using
two
Table
increase
variation
measurements
linear
df
ecosystems
Zackenberg
patterns
data
difference
analysed
year
arthropods
higher
analysis
observed
likely
valley
temporal
cover
However
decreasing
phytoplankton
shifts
low
biotic
exhibited
number
normalised
negative
showed
depth
herbivores
others
high
Biol
sdnorm
Additionally
responses
Schmidt
tests
showing
taxa
Temporal
Fig
total
June
R2
arthropod
ice
melt
group
day
average
groups
DOY
sampled
increased
P.D.D
annual
may
summer
variable
overall
expected
flowers
pattern
sensitivity
mismatch
water
peak
therefore
also
contrast
noted
exhibit
types
years
level
period
high-arctic
lower
generally
included
different
unaltered
general
primarily
analyses
Precipitation
seen
Thus
Polar
tree
studies
among
trend
changing
respectively
earlier
related
plant
species/taxa
area
time
used
Table