

focusing

range

terrestrial

marine

patterns
extinction
found
optimum
especially
crash
animals

plants

changes
latitudinal
contemporary
climate-related
may
existing
geographical
distribution

climate

shifts

species

research
temperature
edge
observed
lowland
rate

change
geographic
movement
trailing
SMR

ecosystems

studies
retractions
number
establishment
lack
Pinsky

leading
margins
using
historical
expansion
biotic
organisms

abundance
persistence
bi-dimensional
Svenning
Chen
Compte
depths
Fig
World
tropical
within
elevation
bathymetric
longitude

likely
high
evidence
elevations
instance
local
also
area

taxa
Parmesan

higher
warming
march
birds
future

towards
much
shift

latitudinal
contemporary
velocity

Lenoir
involving
along
simultaneously
publications
given
low

parameters
dimensions
reports
across

research
latitudes
outside
Grenouillet
shortfalls
space
time

expected
Hemisphere
SPR
effort

observed
less
response
velocities
Engelhard
even

global
expectations
ecological
poleward
tropics

edge
ectotherms
used

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