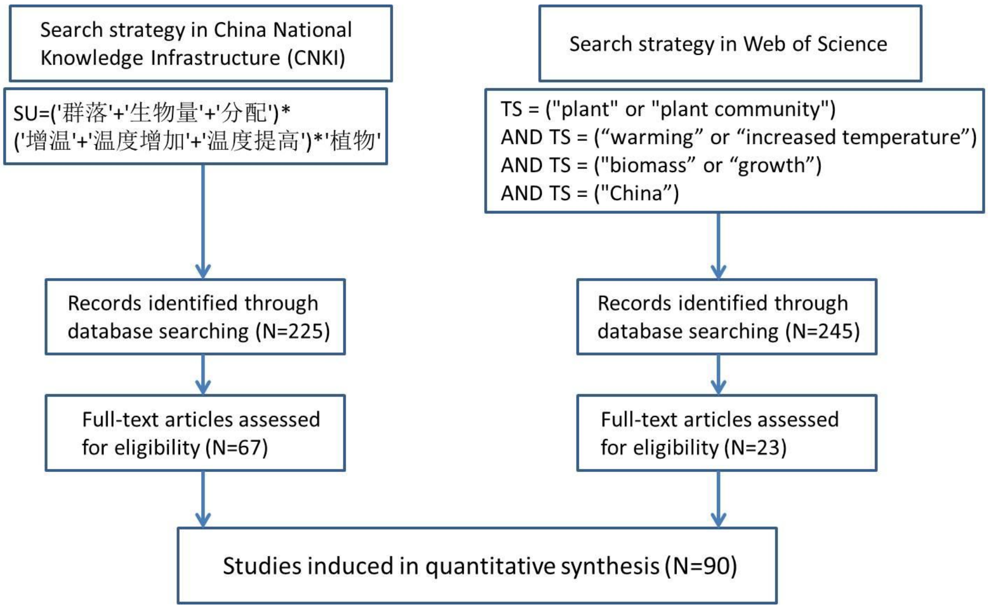
Forests logo; MDPI logo

Supplementary Material

Supplementary Material 1 (S1): Search strategy



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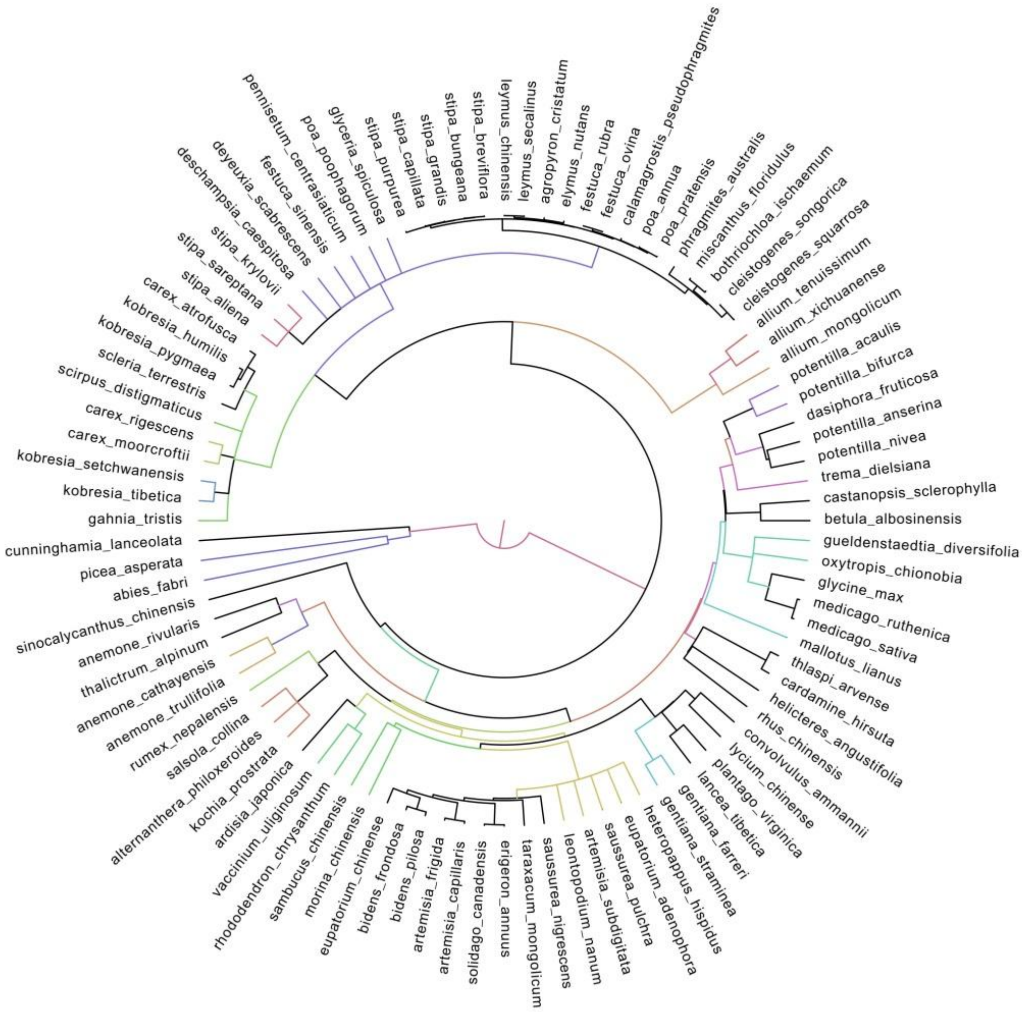
Supplementary Material 3 (S3): Study sites included in this meta-analysis. We grouped warming facilities by passive heating (i.e. open-top chamber) and active heating (including electric heating cable and infrared heater)

Supplementary Material 4 (S4): Phylogenetic relationships between 108 plant species included in this meta-analysis.



Supplementary Material 5 (S5): Main R packages and the corresponding codes used in our research.

S5-1: The R packages used in our research are as follows:

```
Library(metafor)
Library(plyr)
Library(lme4)
Library(glmulti)
Library(boot)
Library(plantlist)
Library(RCurl)
```

S5-2: The main R codes that have been used in this manuscript to calculate traditional cumulative effect sizes:

```
#Loading data through “csv” file
Fd0<-read.csv("Warming_database_AGB.csv")
Fd1<-na.omit(Fd0)

#AGB refers to above-ground biomass.
#CK refers to AGB at ambient temperature (control).
Fd2=Fd1
Fd2<-escalc(measure="ROM",data=Fd1,m1i=AGB_W_mean,sd1i=AGB_W_sd,n1i
=AGB_W_no,m2i=AGB_CK_mean,sd2i=AGB_CK_sd,n2i=AGB_CK_no)

#Linear mixed model fit by REML.
Random1<-rma.mv(yi,vi,random=list(~1|Site_no,~1|Ref_no,~1|ID),data=Fd2,
method="REML")

#We explored the possibility of publication bias.
fsn(yi,vi, data=Fd2)
funnel(Random1)

#Data normalization.
Fd3=Fd2
Fd3$Duration_Delta=with(Fd3,Fd3$Duration_T*Fd3$Delta_T)
a=length(Fd3)
non.numeric.cols = c(3:7,10,14:16,a) #selected data will do further normalize.
Fd3[,non.numeric.cols]<-as.data.frame(apply(Fd3[,non.numeric.cols],c(2),
function(xx){ return((xx-mean(xx, na.rm=TRUE))/sd(xx, na.rm=TRUE)+1)}))

#Using the “glmulti” package to select the best model.
Fd4=Fd3
rma.glmulti<- function(formula, data, V, random,...) {
do.call("rma.mv",list(as.formula(paste(deparse(formula))),V=as.name(V),
random = as.name(random), data = data,    method = "REML", ...))
}
random_effect<- list(~1|Site_no,~1|Ref_no)
modelselection2<-glmulti(yi~Latitude+Longitude+elevation+T+rainfall+Age_pla
nt+Duration_T+Delta_T+Duration_Delta,V="vi",random="random_effect",data=f
d5, level = 1, method = "h", fitfunction=rma.glmulti, crit="aicc", confsetsize =32)
rank.models<- weightable(modelselection2)
summary(modelselection2@objects[[1]])
#Finally, we choose the best model from the proposed 32 models.
```

S5-3: The main R codes that have been used in this manuscript to launch the phylogenetic meta-analysis process:

```
#We created a phylogenetic tree based on our data sets.
Fd5=Fd1
species<-sub("_"," ",Fd5$Latin_Name)
sp<-TPL(species)
apg3<-taxa.table(sp)
taxize_compact<-function(l) Filter(Negate(is.null),l) #A self-writen function
if(length(apg3)>1){dat<-paste(apg3,collapse="\n")} else {dat<-apg3}
url="http://phylodiversity.net/phylomatic/pmws"
args<-taxize_compact(list(taxa=dat,
informat="newick",
method="phylomatic",storedtree="zanne2014",
treeurl=NULL,taxaformat="slashpath",
outformat="newick",clean="true"))
out<-postForm(url,.params=args,style = "POST")
out
out<-tolower(out)
tree<-read.tree(text=out)
write.tree(tree,file="out.nexus")

#Launching the phylogenetic meta-analysis process.
corMatrix<-vcv(tree) #default model="Brownian"
fd2$Latin_Name2<-gsub(" ","_",fd2$Latin_Name)
CorExtphy<-as.matrix(corMatrix[match(fd2$Latin_Name2,rownames(corMatrix)
),
match(fd2$Latin_Name2,colnames(corMatrix))])
Mod_phy0<-rma.mv(yi,vi,random=list(~1|Site_no,~1|Ref_no,~1|Latin_Name2),
R=list(Latin_Name2=CorExtphy),Rscale =
"cov0",method="REML",verbose=F,data=fd2)
summary(Mod_phy0)

#A generalized linear regression model was used to test whether plant types
#(herbaceous versus woody species), the different responses of the plant
#community and its dominant species, and the combined synergies would affect
#biomass accumulation patterns.
Fd6=Fd1
Random2<-rma.mv(yi,vi,mods=~Wood_or_not+Community_or_single+Wood_or
_not:Community_or_single, random=list(~1|Site_no,~1|Ref_no),data=Fd6,
method="REML")
```

summary(random2)

Supplementary Material 6 (S6): Detailed coordinate information regarding Woody species and No-woody observations included in these meta-analyses.

S6-1 Detailed coordinates information regarding woody species included in these meta-analyses.

Ref	Latitude	Longitude	Biomass	Ref	Latitude	Longitude	Biomass
2	26.3	117.6	AGB	9	29.2	121.0	AGB
8	27.7	114.7	AGB	10	30.2	106.0	AGB
21	31.7	103.9	AGB	23	31.7	102.8	AGB
22	31.7	102.8	AGB	47	37.5	101.2	AGB
49	37.55	101.3	AGB	53	38.8	106.1	AGB
51	37.7	101.3	AGB	58	41.8	111.9	AGB
60	42.1	128.0	AGB	68	27.1	115.0	AGB
67	29.0	120.8	AGB	1	37.6	101.3	BGB
119	30.2	106.0	BGB	150	29.0	120.8	BGB
140	38.8	106.1	BGB	153	27.7	114.7	BGB
18	31.7	102.8	BGB	50	26.3	117.6	BGB
19	29.2	121.0	BGB	61	27.1	115.0	BGB
33	26.3	117.6	BGB	7	37.5	101.2	BGB
98	31.7	102.8	BGB				

Ref: the ID of reference (study) included in this meta-analysis; AGB: Above-ground biomass; BGB: Below-ground biomass.

S6-2 Detailed coordinates information regarding herbaceous species included in these meta-analyses.

Ref	Latitude	Longitude	Biomass	Ref	Latitude	Longitude	Biomass
1	26.0	114.8	AGB	4	27.0	116.8	AGB
2	26.3	117.6	AGB	5	27.0	114.8	AGB
6	27.1	115.0	AGB	11	30.5	95.5	AGB
10	30.2	106.0	AGB	14	30.7	104.1	AGB
17	30.9	92.0	AGB	19	31.6	92.3	AGB
18	31.4	92.0	AGB	20	31.7	121.5	AGB
24	31.5	120.8	AGB	26	32.2	102.5	AGB
25	32.2	118.9	AGB	28	32.9	102.9	AGB
29	32.9	103.6	AGB	31	33.4	97.3	AGB
30	33.0	104	AGB	32	33.5	104.1	AGB
33	33.9	102.6	AGB	35	34.9	92.8	AGB
34	33.9	101.9	AGB	36	34.3	100.4	AGB
37	34.4	100.6	AGB	39	34.7	92.9	AGB
38	34.7	92.9	AGB	40	34.8	93.3	AGB

41	34.8	92.9	AGB	43	36.9	101.0	AGB
42	36.0	104.4	AGB	44	37.0	100.0	AGB
45	37.3	99.8	AGB	47	37.5	101.2	AGB
46	37.5	90.5	AGB	48	37.5	101.3	AGB
49	37.5	101.3	AGB	51	37.7	101.3	AGB
50	37.6	101.2	AGB	52	38.4	92.3	AGB
55	40.4	110.6	AGB	57	41.7	110.3	AGB
56	40.8	111.7	AGB	58	41.8	111.9	AGB
59	42.0	116.3	AGB	63	44.7	123.7	AGB
61	44.7	123.7	AGB	64	44.8	123.8	AGB
65	45.4	132.3	AGB	1	37.6	101.3	BGB
103	44.8	123.8	BGB	111	41.8	111.9	BGB
108	27.0	116.8	BGB	113	37.5	101.3	BGB
115	30.7	104.1	BGB	117	27.0	114.8	BGB
116	33.9	102.6	BGB	119	30.2	106.0	BGB
12	26.0	114.8	BGB	13	32.9	103.6	BGB
122	44.7	123.8	BGB	130	34.7	92.9	BGB
135	27.1	115	BGB	155	31.7	121.5	BGB
145	40.8	111.7	BGB	156	30.8	114.7	BGB
160	44.7	123.7	BGB	172	40.4	110.6	BGB
17	32.9	103.6	BGB	2	41.8	111.9	BGB
23	41.8	111.9	BGB	3	34.7	92.9	BGB
24	34.9	92.8	BGB	33	26.3	117.6	BGB
39	41.8	111.9	BGB	43	44.7	123.7	BGB
41	32.9	103.6	BGB	45	41.8	111.9	BGB
7	37.5	101.2	BGB	92	37.0	100.0	BGB
76	33	104	BGB	93	45.4	132.3	BGB
99	41.8	111.9	BGB	159	34.7	92.9	BGB
126	30.5	114.4	BGB	32	32.8	102.6	BGB
47	34.8	92.9	BGB	180	42.0	116.3	BGB

Ref: the ID of reference (study) included in this meta-analysis; AGB: Above-ground biomass; BGB: Below-ground biomass.