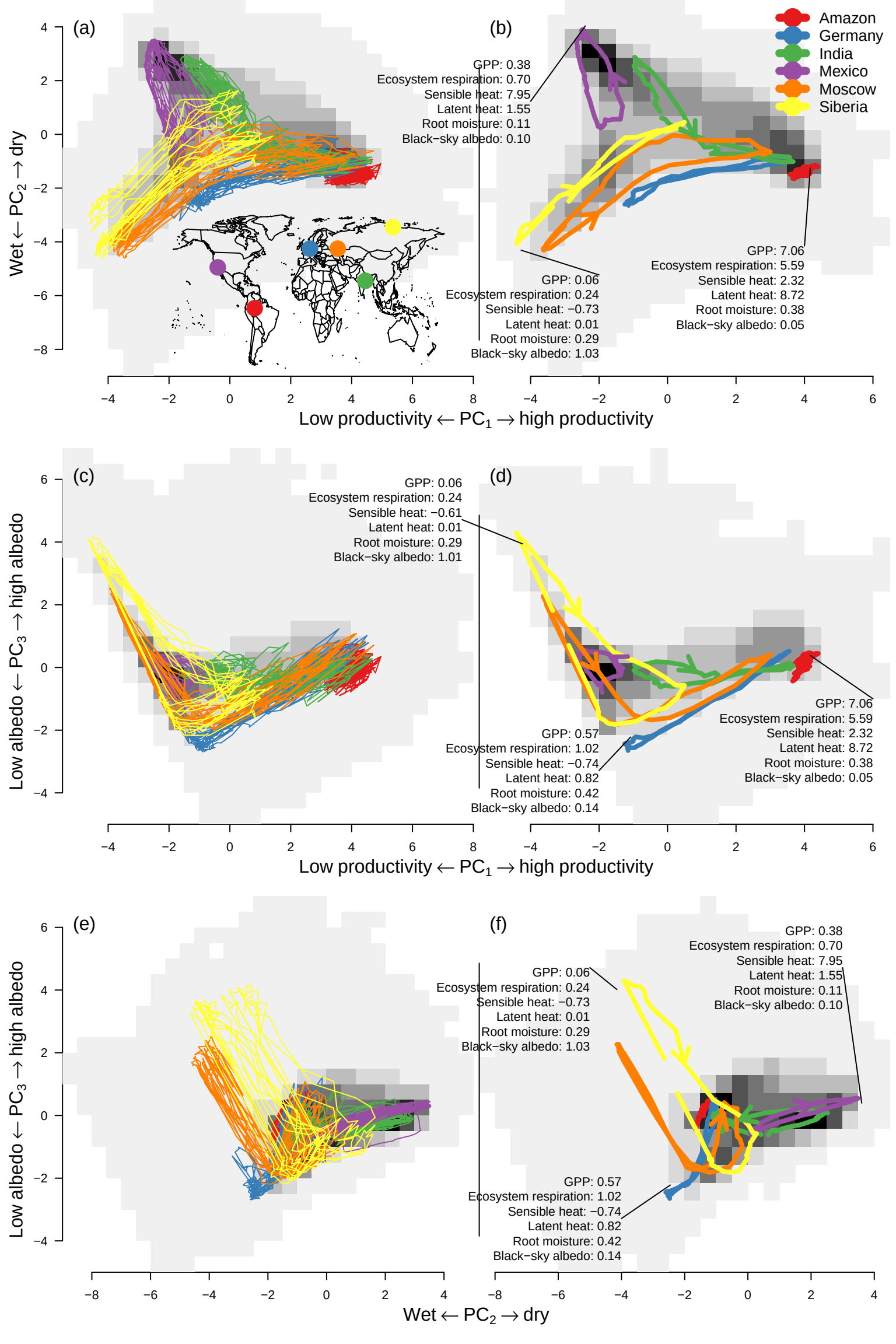
(a)
(b)
Amazon
Germany
India
Mexico
Moscow
Siberia
GPP: 0.38
Ecosystem respiration: 0.70
Sensible heat: 7.95
Latent heat: 1.55
Root moisture: 0.11
Black−sky albedo: 0.10
GPP: 0.06
Ecosystem respiration: 0.24
Sensible heat: −0.73
Latent heat: 0.01
Root moisture: 0.29
Black−sky albedo: 1.03
GPP: 7.06
Ecosystem respiration: 5.59
Sensible heat: 2.32
Latent heat: 8.72
Root moisture: 0.38
Black−sky albedo: 0.05
Wet ← PC2 → dry
Low productivity ← PC1 → high productivity
(c)
(d)
GPP: 0.06
Ecosystem respiration: 0.24
Sensible heat: −0.61
Latent heat: 0.01
Root moisture: 0.29
Black−sky albedo: 1.01
GPP: 7.06
Ecosystem respiration: 5.59
Sensible heat: 2.32
Latent heat: 8.72
Root moisture: 0.38
Black−sky albedo: 0.05
GPP: 0.57
Ecosystem respiration: 1.02
Sensible heat: −0.74
Latent heat: 0.82
Root moisture: 0.42
Black−sky albedo: 0.14
Low albedo ← PC3 → high albedo
Low productivity ← PC1 → high productivity
(e)
(f)
GPP: 0.38
Ecosystem respiration: 0.70
Sensible heat: 7.95
Latent heat: 1.55
Root moisture: 0.11
Black−sky albedo: 0.10
GPP: 0.06
Ecosystem respiration: 0.24
Sensible heat: −0.73
Latent heat: 0.01
Root moisture: 0.29
Black−sky albedo: 1.03
GPP: 0.57
Ecosystem respiration: 1.02
Sensible heat: −0.74
Latent heat: 0.82
Root moisture: 0.42
Black−sky albedo: 0.14
Low albedo ← PC3 → high albedo
Wet ← PC2 → dry