**Supplement S6 Partial dependence plots of each variable**

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**Bio\_1**

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**Bio\_2**

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**Bio\_3**

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**Bio\_4**

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**Bio\_5**

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**Bio\_7**

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**Bio\_8**

**Bio\_9**

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**Bio\_10**

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**Bio\_12**

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**Bio\_13**

**Bio\_14**

****

**Bio\_15**

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**Bio\_16**

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**Bio\_17**

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**Bio\_18**

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**Altitude**

****

**Aspect**

****

**Slope**

****

**Distance to coastline**

**Distance to lake**

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**Distance to river**

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**Distance to road**

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**Distance to rail road**

****

**Distance to settlement**

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**Land cover**

**The legend of land cover layer**

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| --- | --- |
|  | GLC Global Class (according to LCCS terminology) |
|  | Tree Cover, broadleaved, evergreen*LCCS >15% tree cover, tree height >3m*(Examples of sub-classes at regional level\* :*closed > 40% tree cove; open 15-40% tree cover)* |
|
|  | Tree Cover, broadleaved, deciduous, closed |
|  | Tree Cover, broadleaved, deciduous, open*(open 15-40% tree cover)* |
|  | Tree Cover, needle-leaved, evergreen |
|  | Tree Cover, needle-leaved, deciduous |
|  | Tree Cover, mixed leaf type |
|  | Tree Cover, regularly flooded, fresh water (& brackish) |
|  | Tree Cover, regularly flooded, saline water,(daily variation of water level) |
|  | Mosaic:Tree cover / Other natural vegetation |
|  | Tree Cover, burnt |
|  | Shrub Cover, closed-open, evergreen(Examples of sub-classes at reg. level \*: (i) sparse tree layer) |
|  | Shrub Cover, closed-open, deciduous(Examples of sub-classes at reg. level \*: (i) sparse tree layer) |
|  | Herbaceous Cover, closed-open(Examples of sub-classes at regional level \*:(i) natural, (ii) pasture, (iii) sparse trees or shrubs) |
|  | Sparse Herbaceous or sparse Shrub Cover |
|  | Regularly flooded Shrub and/or Herbaceous Cover |
|  | Cultivated and managed areas(Examples of sub-classes at reg. level \*:(i) terrestrial; (ii) aquatic (=flooded during cultivation), and under terrestrial: (iii) tree crop & shrubs (perennial), (iv) herbaceous crops (annual), non-irrigated, (v) herbaceous crops (annual), irrigated) |
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|  | Mosaic:Cropland / Tree Cover / Other natural vegetation |
|  | Mosaic:Cropland / Shrub or Grass Cover |
|  | Bare Areas |
|  | Water Bodies (natural & artificial) |
|  | Snow and Ice (natural & artificial) |
|  | Artificial surfaces and associated areas |