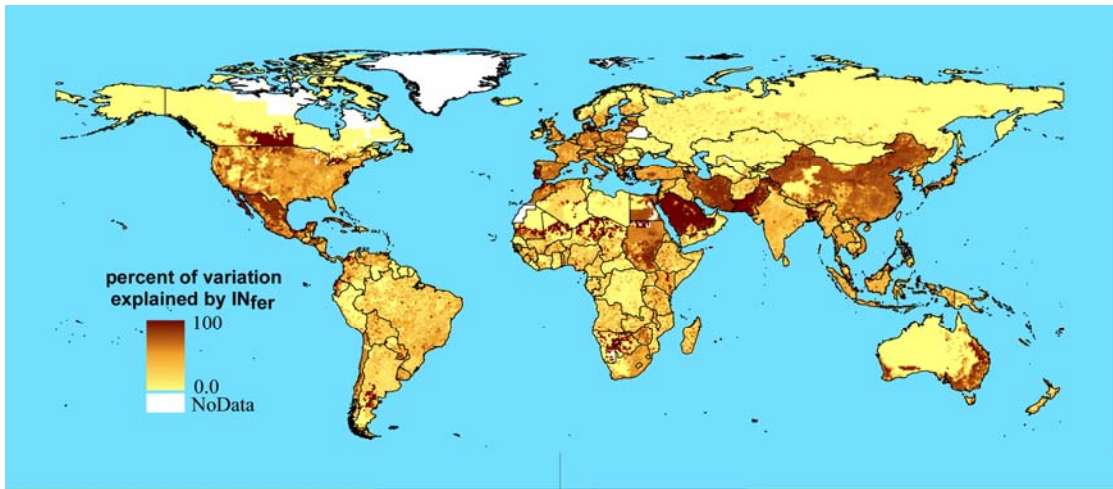
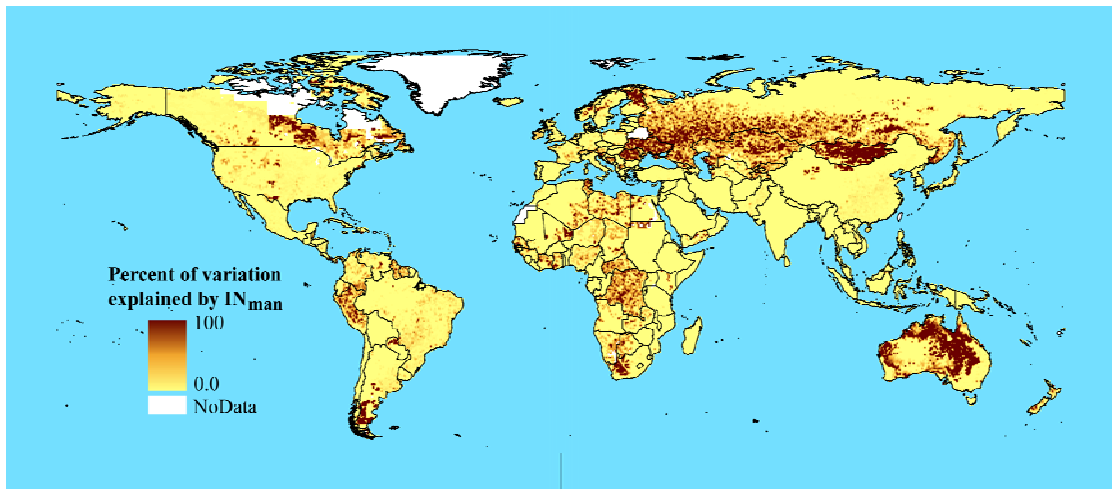


**Fig. S3** Uncertainty analysis

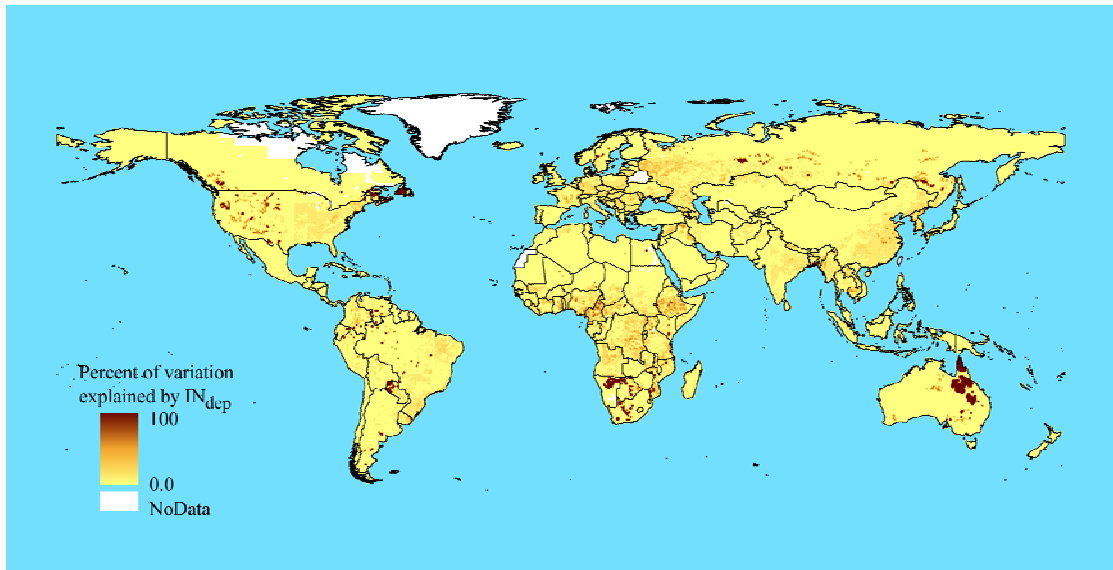
a) Percent of variation of  $BAL_{soil}$  explained by  $IN_{fer}$



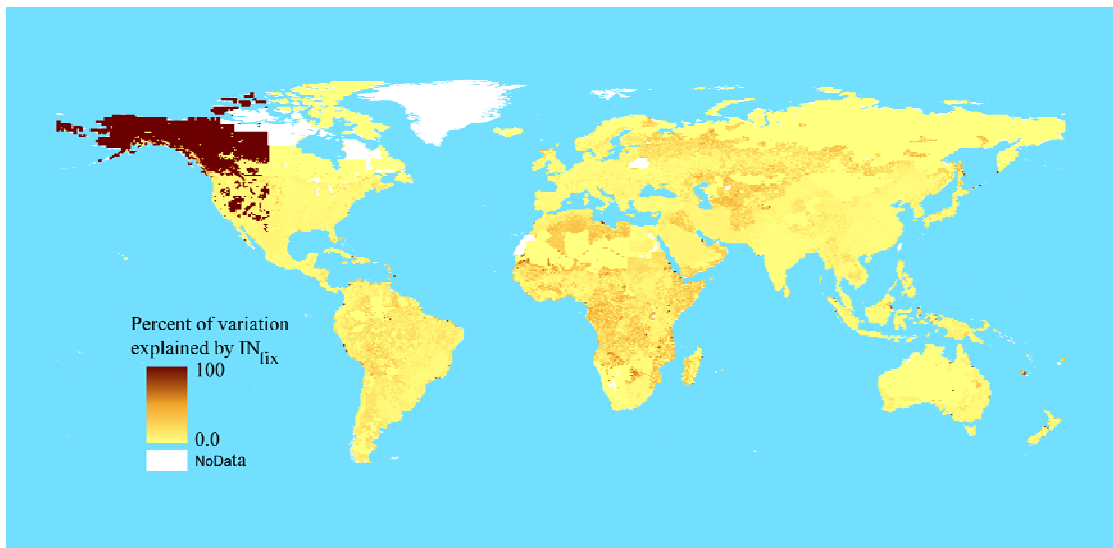
b) Percent of variation of  $BAL_{soil}$  explained by  $IN_{man}$



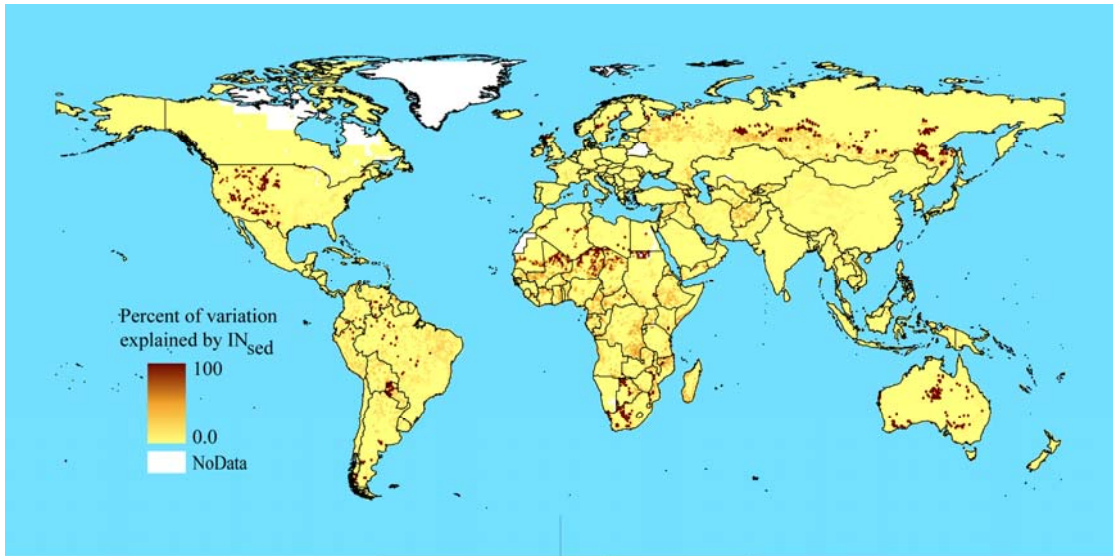
c) Percent of variation of  $BAL_{soil}$  explained by  $IN_{dep}$



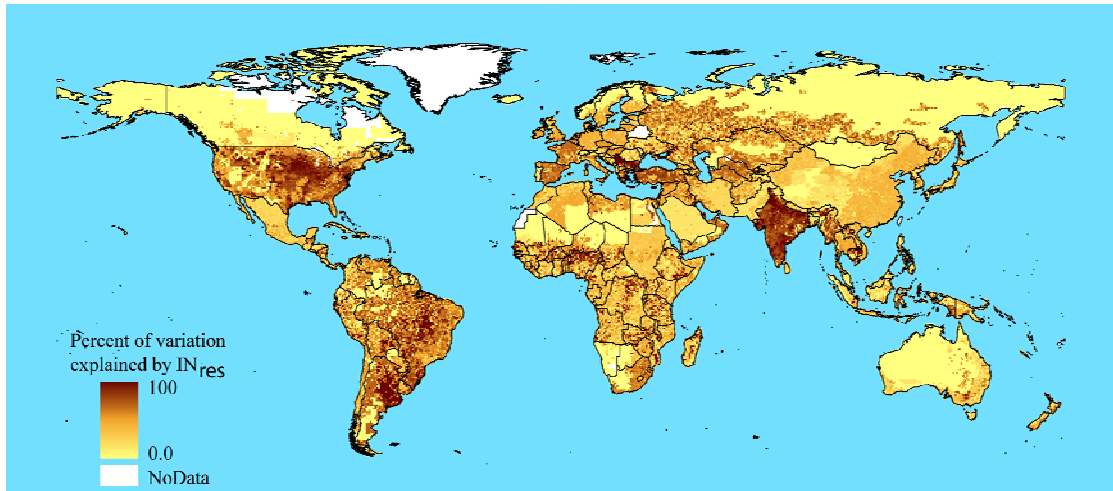
d) Percent of variation of  $BAL_{soil}$  explained by  $IN_{fix}$



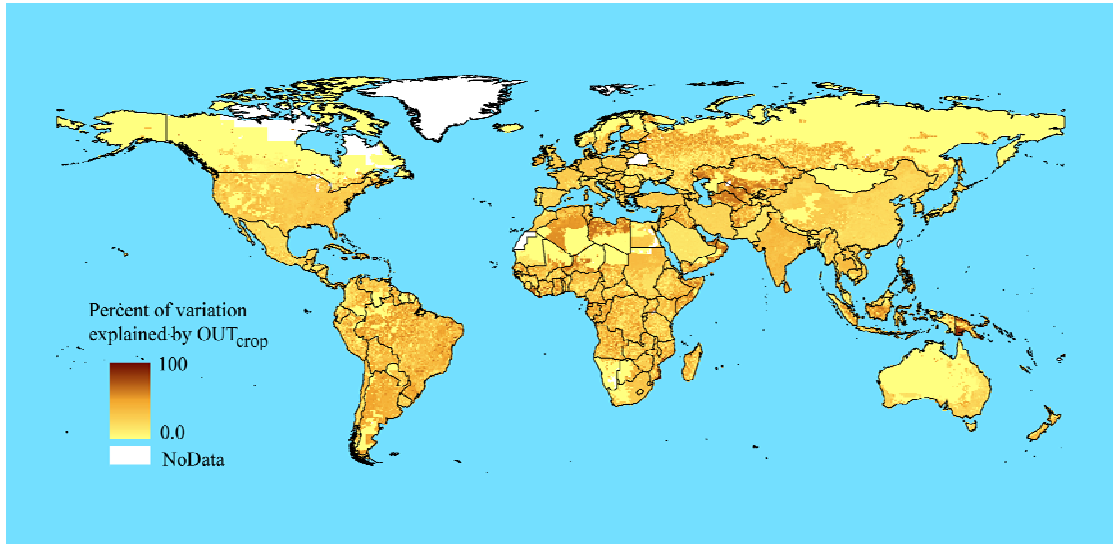
e) Percent of variation of  $BAL_{soil}$  explained by  $IN_{sed}$



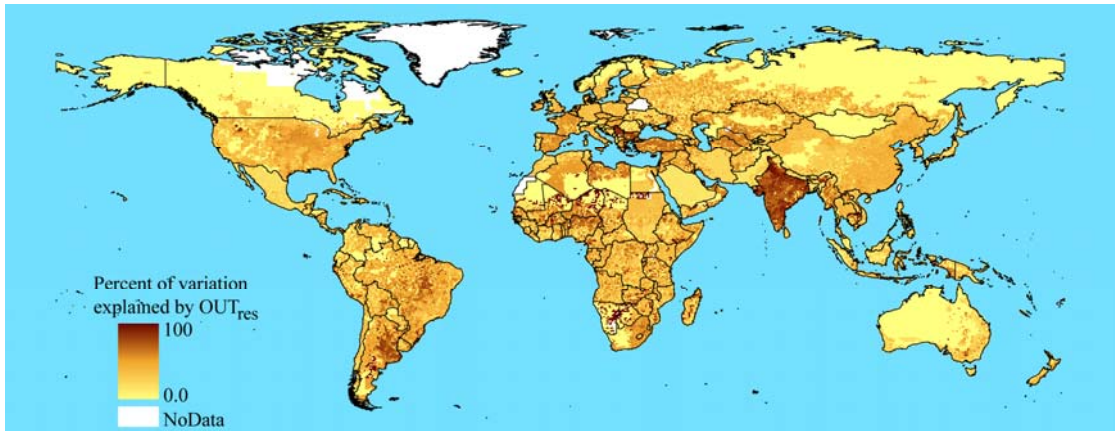
f) Percent of variation of  $BAL_{soil}$  explained by  $IN_{res}$



g) Percent of variation of  $BAL_{soil}$  explained by  $OUT_{crop}$

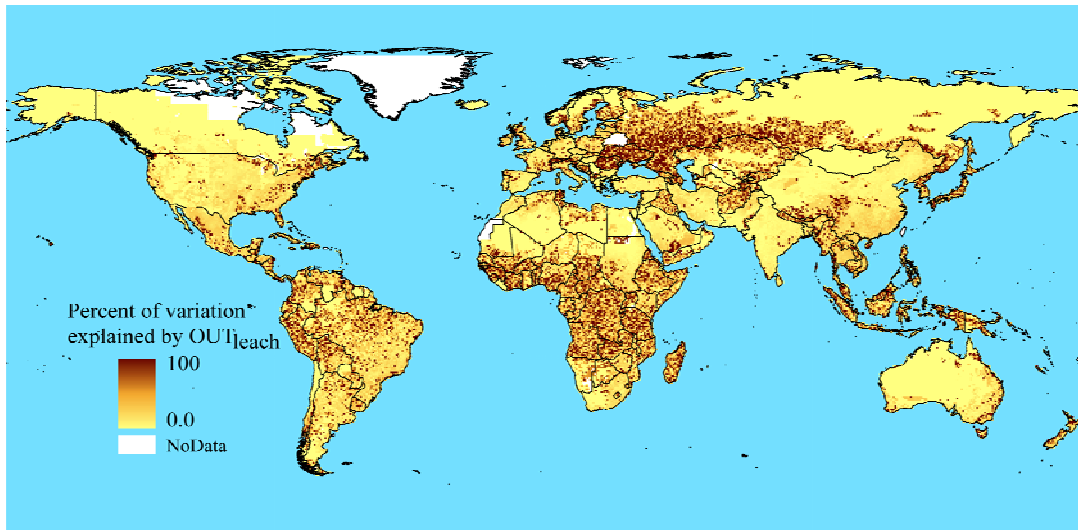


h) Percent of variation of  $BAL_{soil}$  explained by  $OUT_{res}$

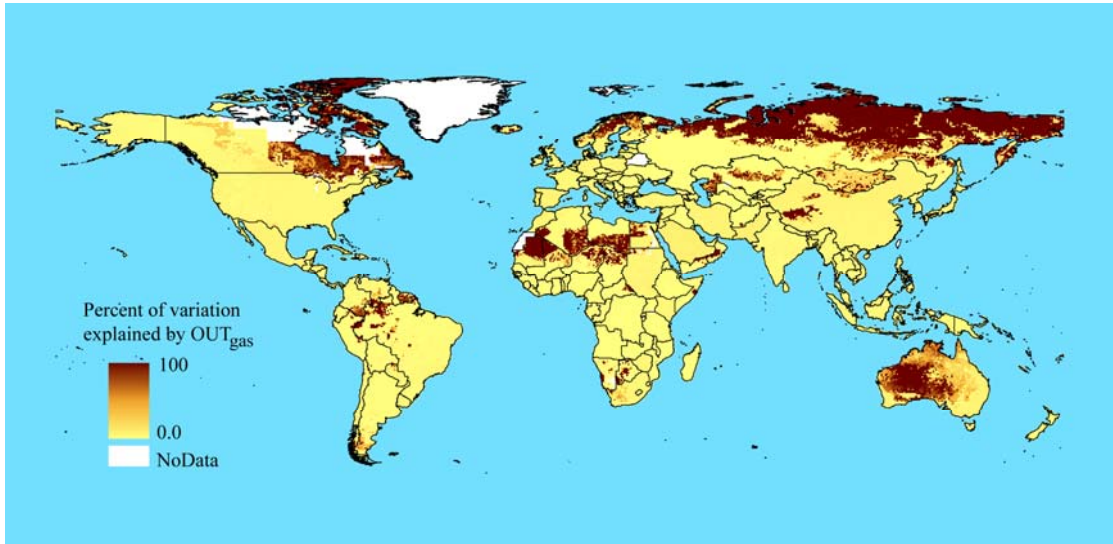




i) Percent of variation of  $BAL_{soil}$  explained by  $OUT_{lea}$



j) Percent of variation of  $BAL_{soil}$  explained by  $OUT_{gas}$



k) Percent of variation of  $BAL_{soil}$  explained by  $OUT_{ero}$

