Supplementary Figures.
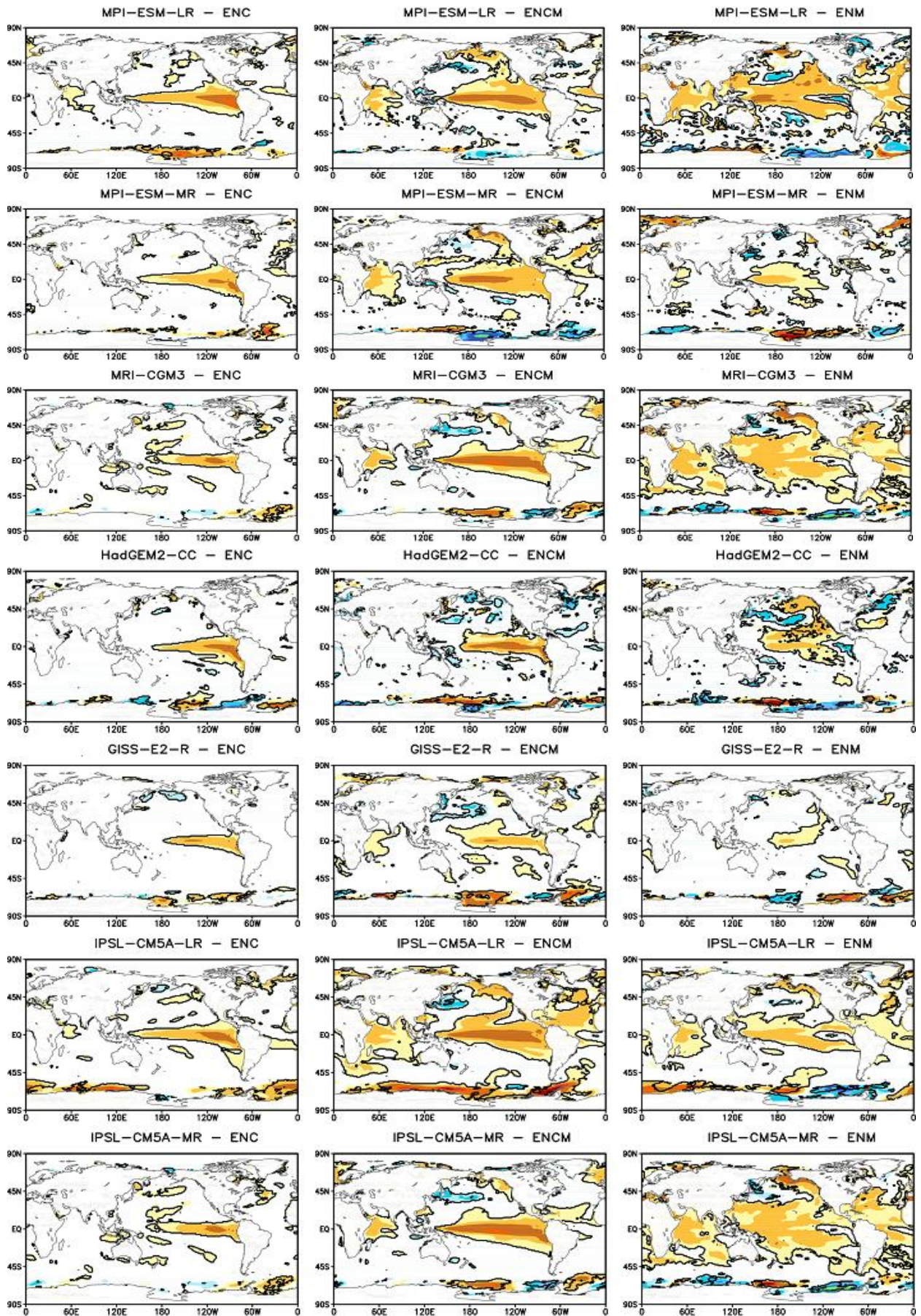
Fig. S1. EN composites during JJA for ASST (°C) for High Top (A) and Low Top (B) models separately [ENC (left), ENCM (middle) and ENM (right)]. Significant regions at 95% level are marked by black colour.
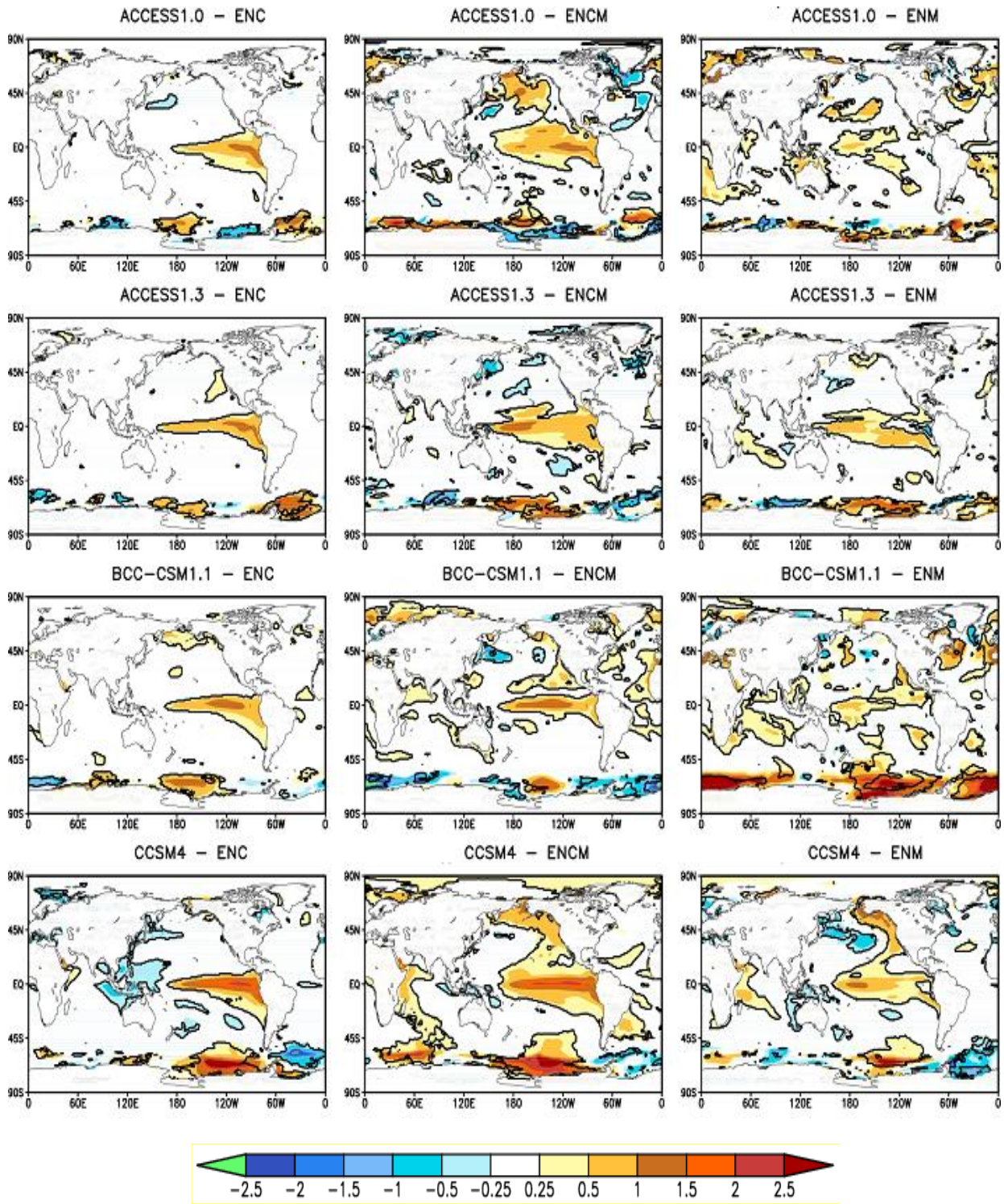
Fig. S2. Same as Fig. S1, but for LN composites. Some places are kept blank because there is not a single year for that particular type of composite in those models.
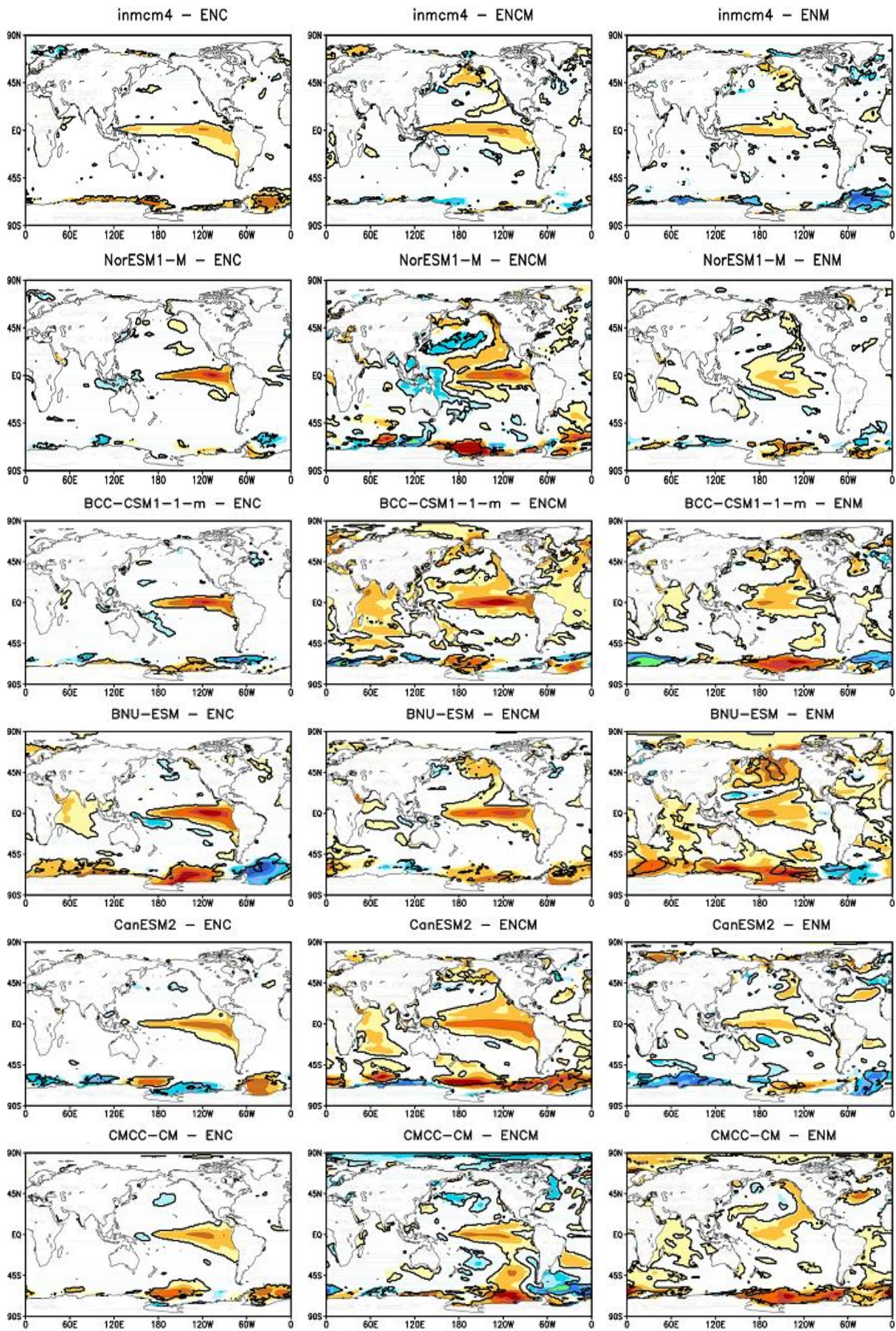
Supplementary Figures.

A) High Top Models
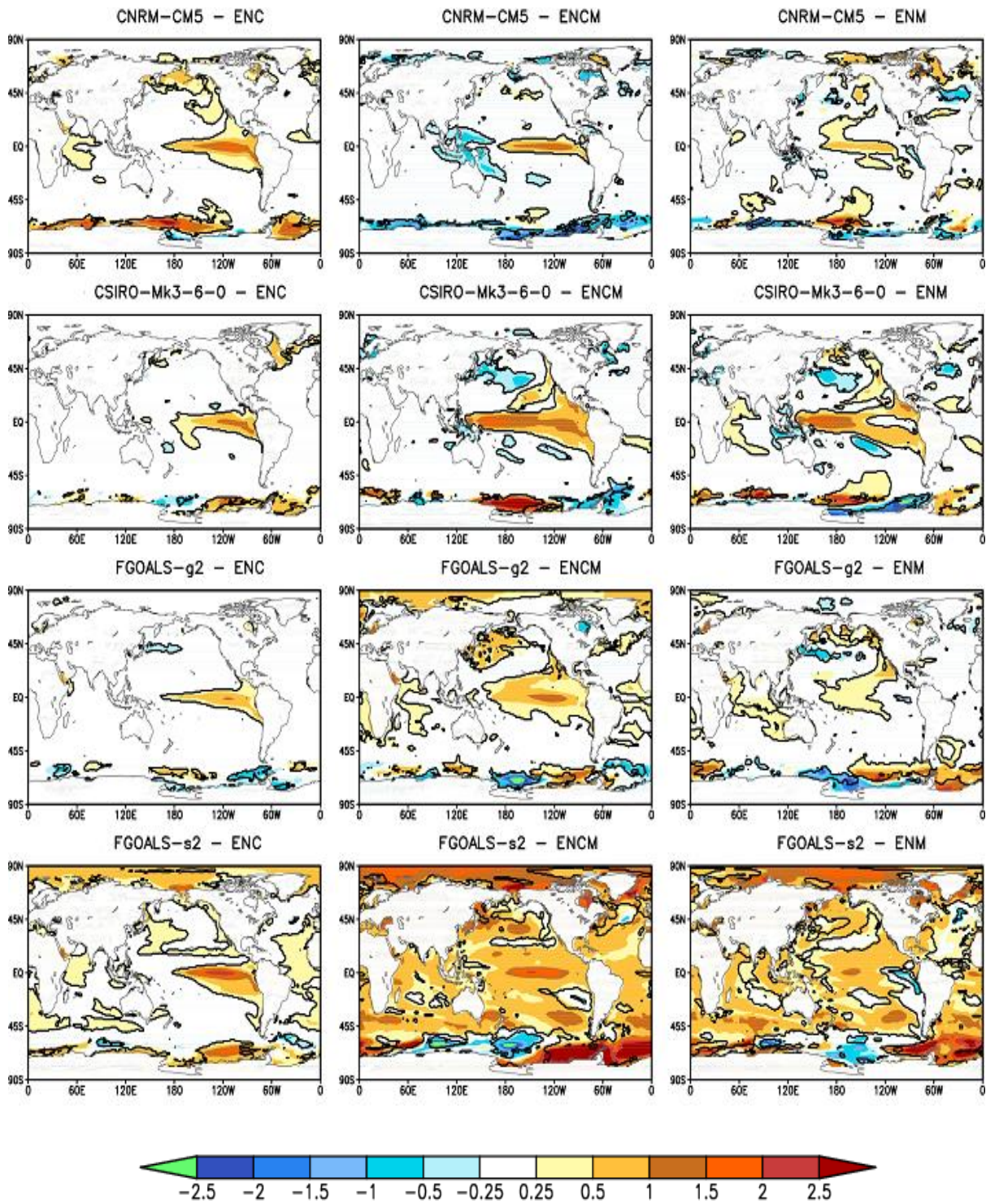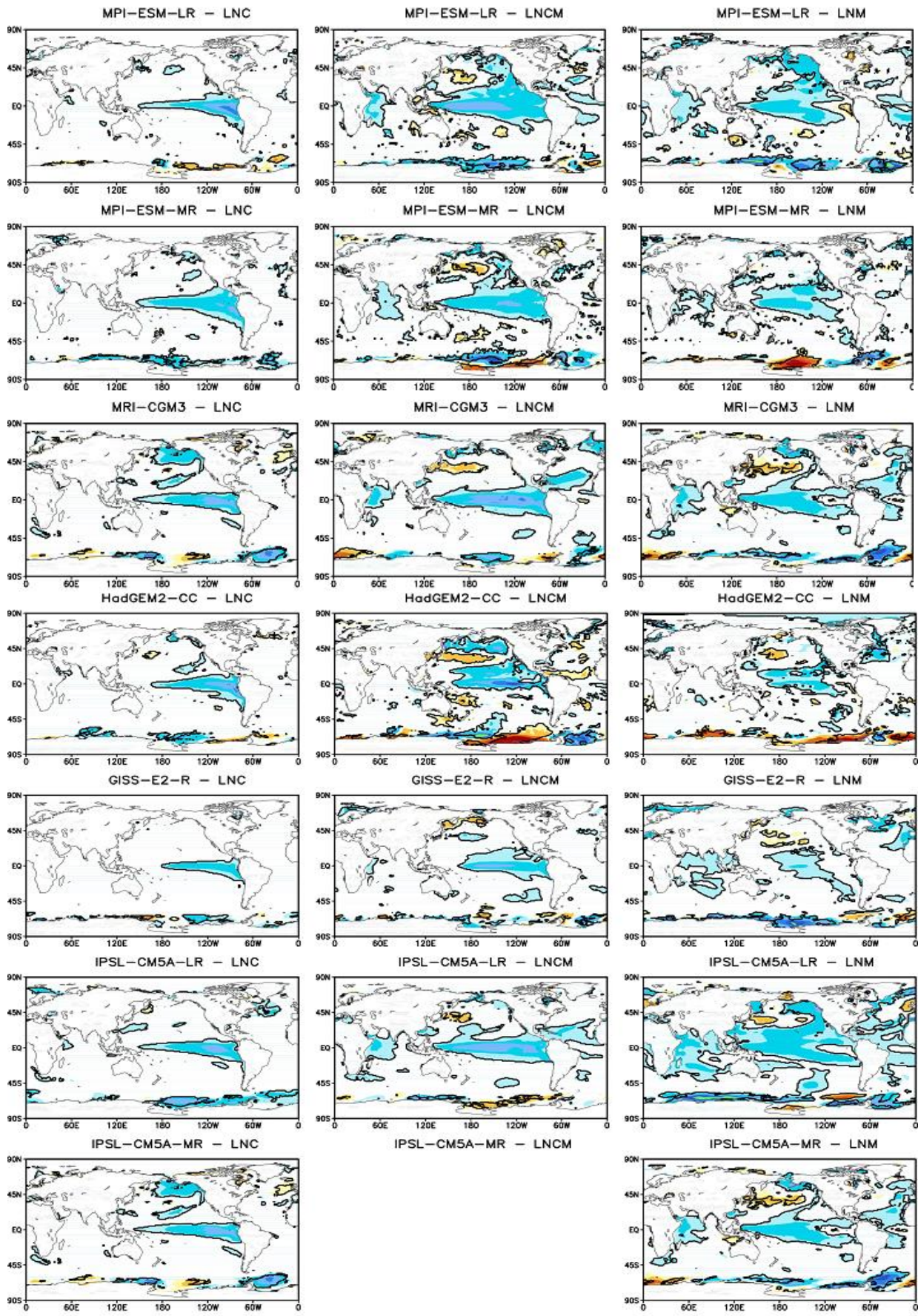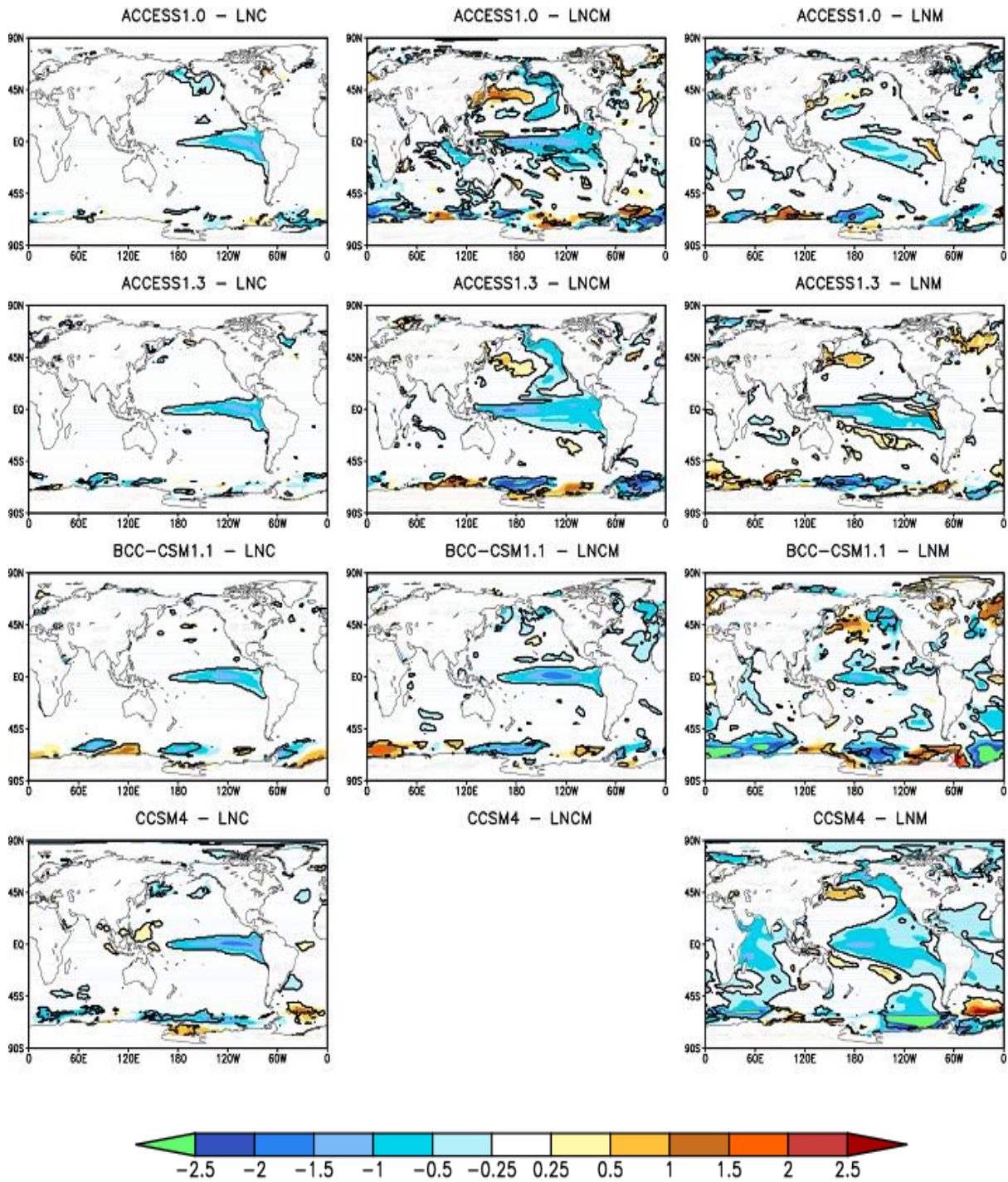
B) Low Top Models

Cont..

Fig. S1. EN composites during JJA for ASST (°C) for High Top (A) and Low Top (B) models separately [ENC (left), ENCM (middle) and ENM (right)]. Significant regions at 95% level are marked by black colour.
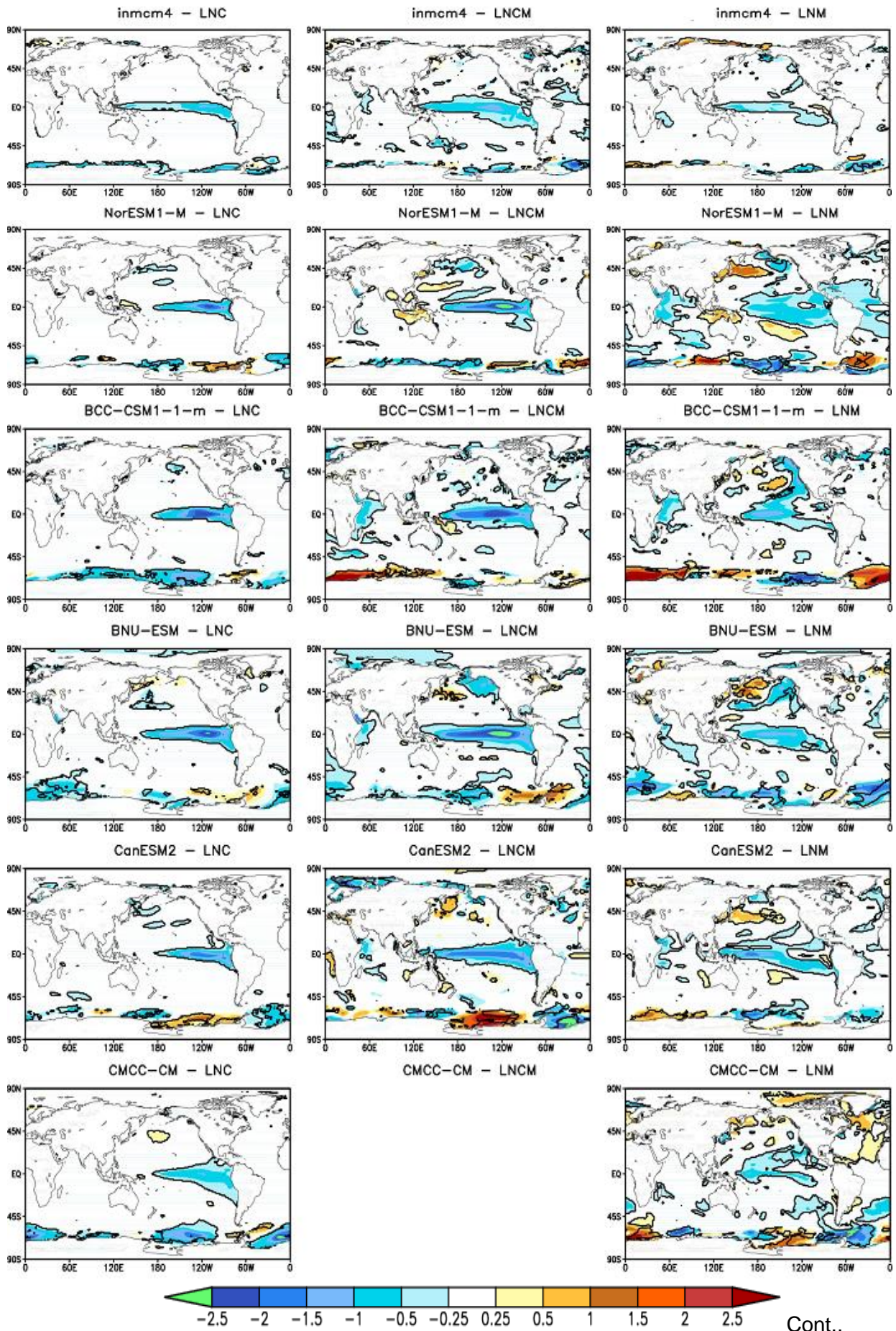
A) High Top Models

B) Low Top Models

Cont..

inmcm4 − LNC   inmcm4 − LNCM   inmcm4 − LNM

NorESM1−M − LNC   NorESM1−M − LNCM   NorESM1−M − LNM

BCC−CSM1−1−m − LNC   BCC−CSM1−1−m − LNCM   BCC−CSM1−1−m − LNM

BNU−ESM − LNC   BNU−ESM − LNCM   BNU−ESM − LNM

CanESM2 − LNC   CanESM2 − LNCM   CanESM2 − LNM

CMCC−CM − LNC   CMCC−CM − LNCM   CMCC−CM − LNM

−2.5 −2 −1.5 −1 −0.5 −0.25 0.25 0.5 1 1.5 2 2.5
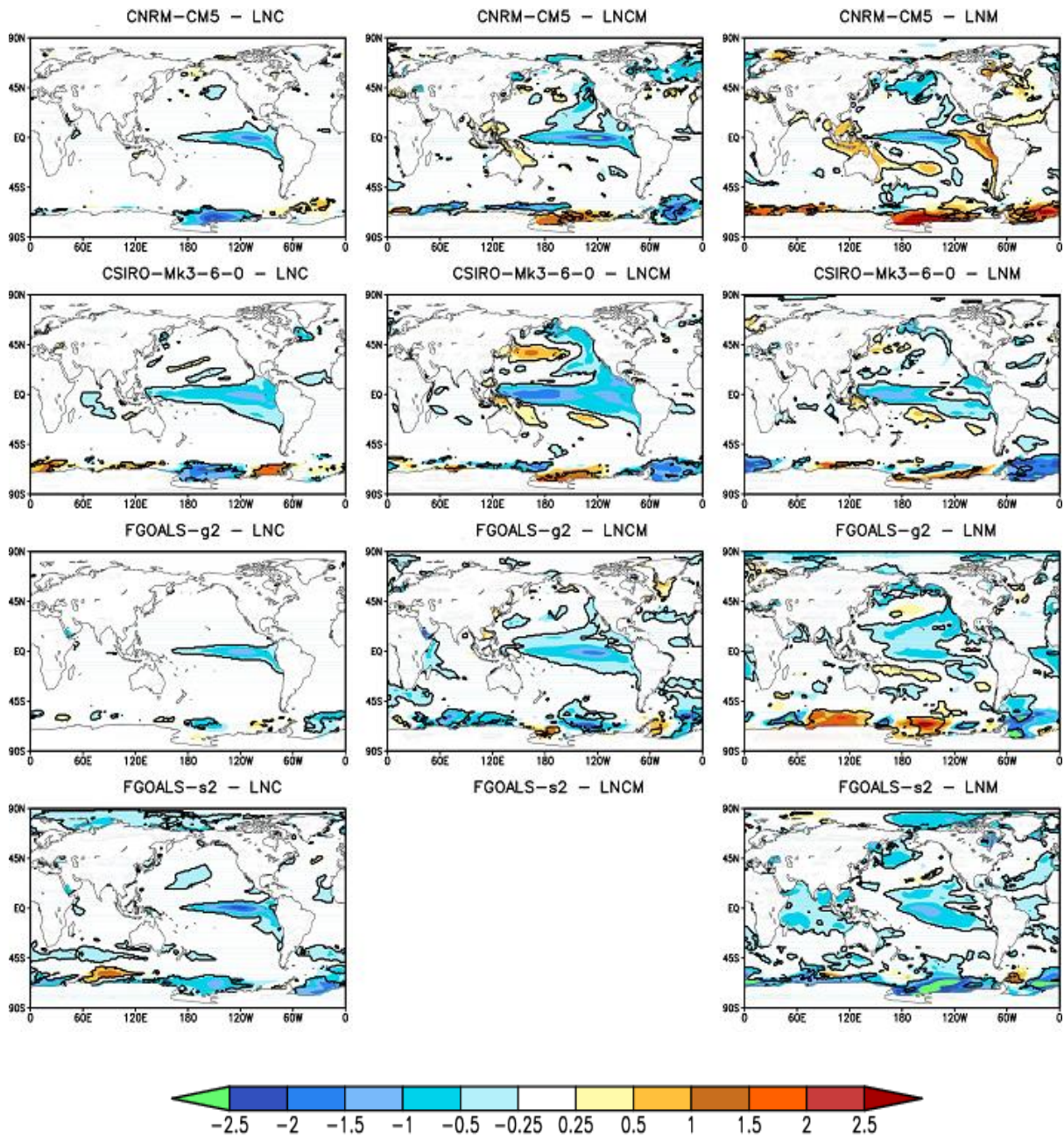
Cont..

Fig. S2. Same as Fig. S1, but for LN composites. Some places are kept blank because there is not a single year for that particular type of composite in those models.