RMSE between observations and model output for different periods (a) (b) 1982-1990 1990-2000 ALT ZEP ALT F × Prior - 👐 STM ICE ΑII STM X ICE SIS × DEC1 × DEC2 MHD SHM MHD SHM X × INV1 ESP SBL ESP SBL - ---X AZR MID X AZR - • • X MID -X MNM MNM -X MLO KUM GMI RPB CHR SEY ASC × MLO 0 00 X - 🛛 🔵 KUM - GMI - RPB - CHR - SEY - ASC X - • •) × × - 🐞 🌖 X SMO - • • EIC - KER - • • SMO X KER BHD BHD CRZ CRZ - MQA -× × MQA × TDF TDF . X HBA SPO HBA SPO 0 2 3 4 5 6 7 0 2 4 6 8 10 12 14 1 **RMSE RMSE** (c) (d) 2000-2010 1982-2010 ALT -ZEP -ZEP - • • • X X STM - • • STM - • • × × × × × ICE • •• ICE 🔊 👐 × SIS •••• SIS | X MHD MHD ⊦ • • • X SHM . SHM . × ESP SBL AZR ESP - • • • • SBL - • × X × AZR 🖃 👓 X MID MNM × MID | MNM • MLO | ••• MLO -X KŪM ├ • •• KŪM - ■ ■ GMI GMI X RPB -RPB -CHR -CHR -× SEY - •• SEY -ASC -ASC • SMO - • SMO - • EIC -EIC . × KER-KER -X BHD • • BHD X CRZ MQA CRZ MQA × TDF ⊦ •••• TDF -× HBA SPO HBA SPO 0 5 10 15 20 0 5 10 15 20 **RMSE RMSE**