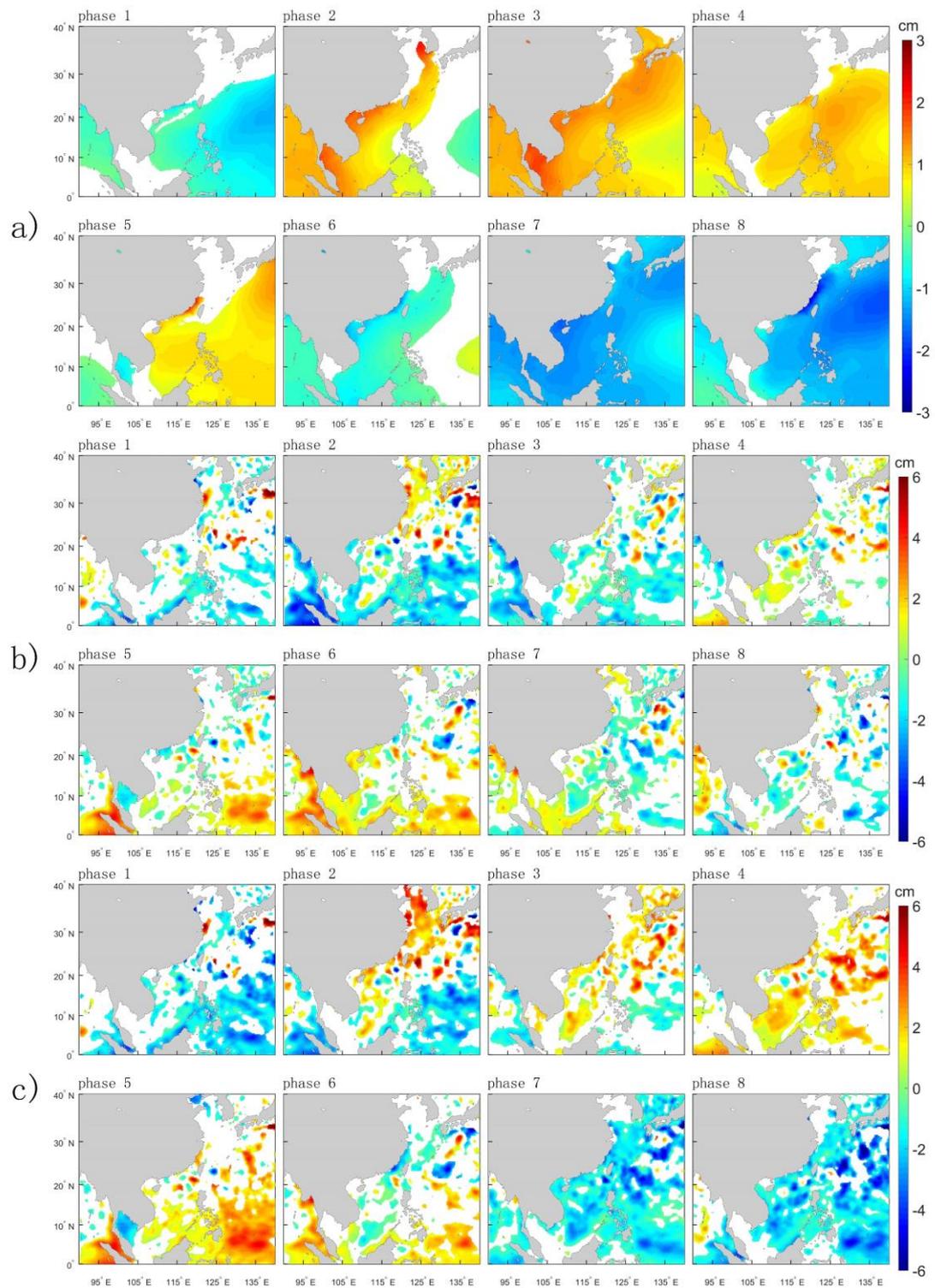
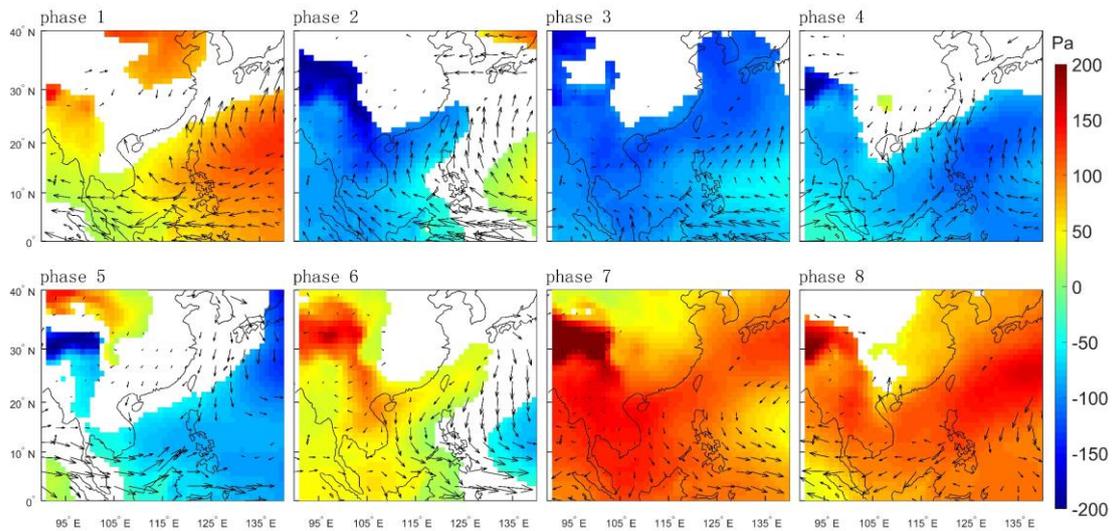


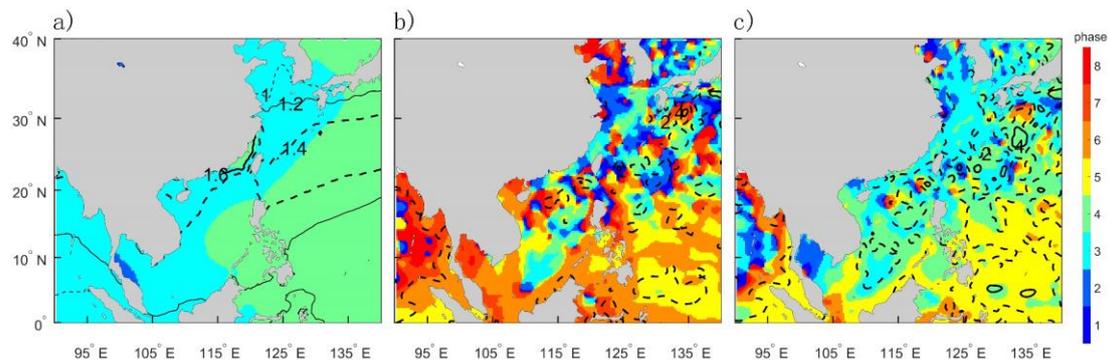
**Figure 1.** (a-c) Intraseasonal variance of sea level in winter, and the percentage of intraseasonal variance explained by MJO. (a), (b) and (c) are for DAC, SLA and TSL, respectively. Colors indicate the variance (units:  $\text{cm}^2$ ) and contours represent the percentage (units: %). The contours are drawn for every 5% increase in variance explained by ISO. (d-f) as in (a-c), but for intraseasonal variance of sea level in summer, and the percentage of intraseasonal variance explained by BSISO.



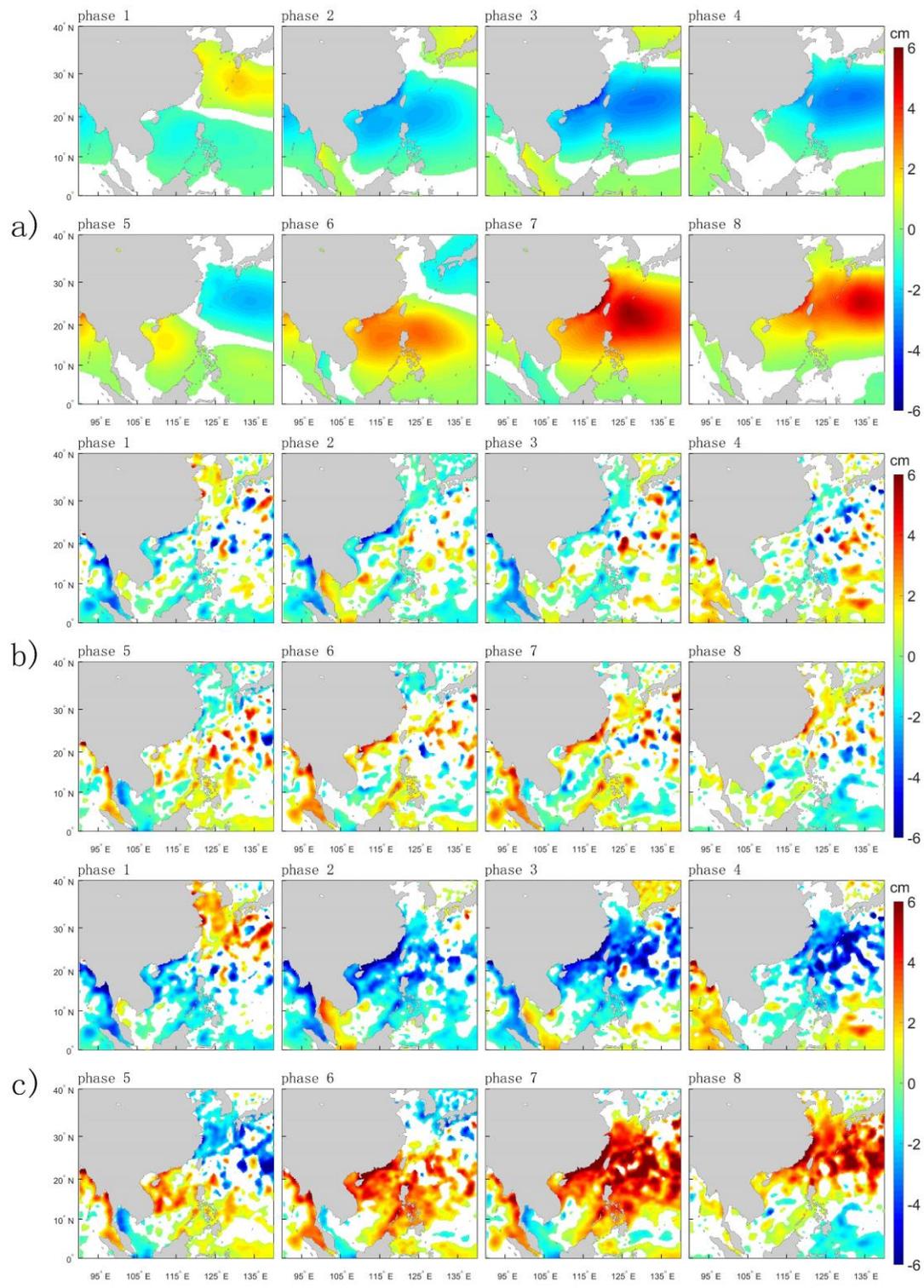
**Figure 2.** (a-c) Composite means of DAC, SLA and TSL in MJO phases, respectively. Blank areas indicate the composite means that are not passing the significance test at 95% confidence level.



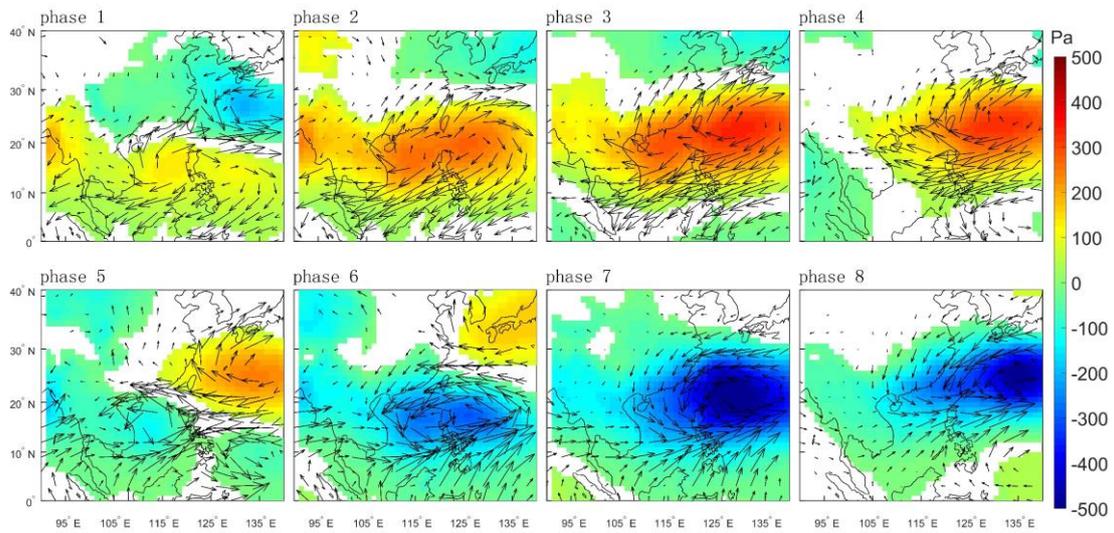
**Figure 3.** Composite means of mean sea level pressure and surface wind in MJO phases, in winter. Blank areas indicate the composite means that are not passing the significance test at 95% confidence level.



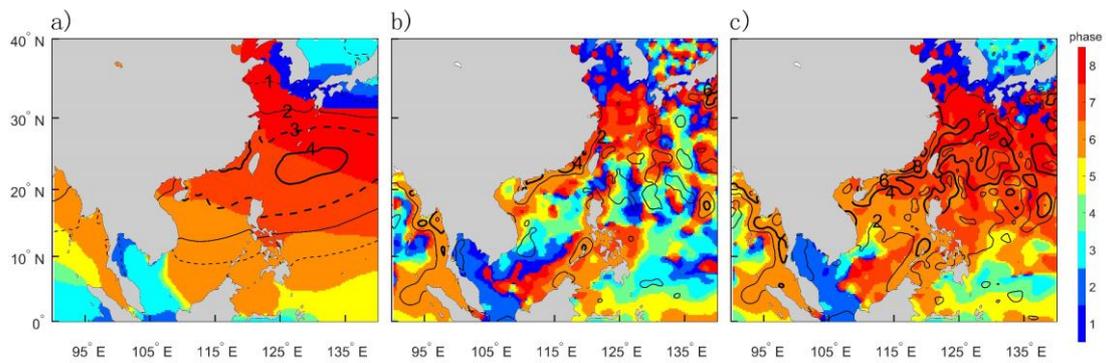
**Figure 4.** (a-c) Harmonic parameters of MJO-related signals for DAC, SLA and TSL in winter, respectively. Colors indicate phase and contours represent amplitude (units: cm). In (a), thin dash line for 1, thin solid line for 1.2, thick dash line for 1.4, thick solid line for 1.6; in (b) and (c), thick dash line for 2, thick solid line for 4.



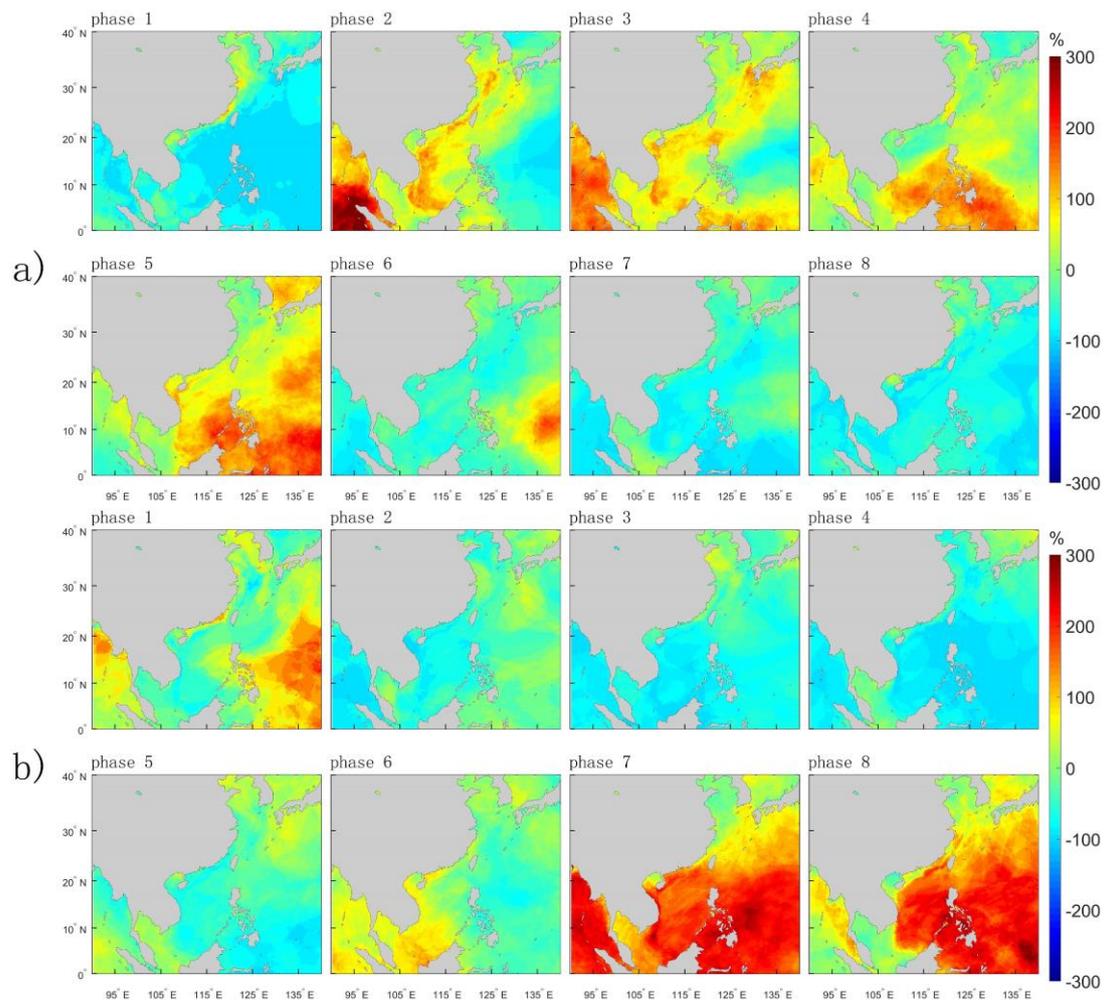
**Figure 5.** As in Figure 2, but for BSISO and in summer season.



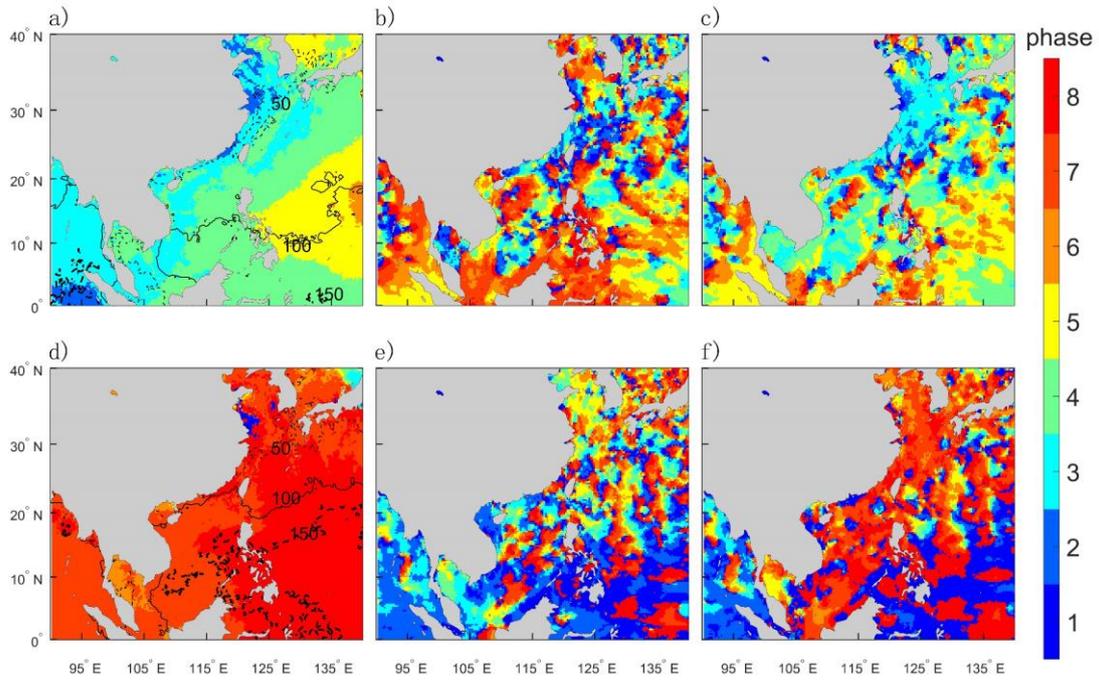
**Figure 6.** As in Figure 3, but for BSISO and in summer season.



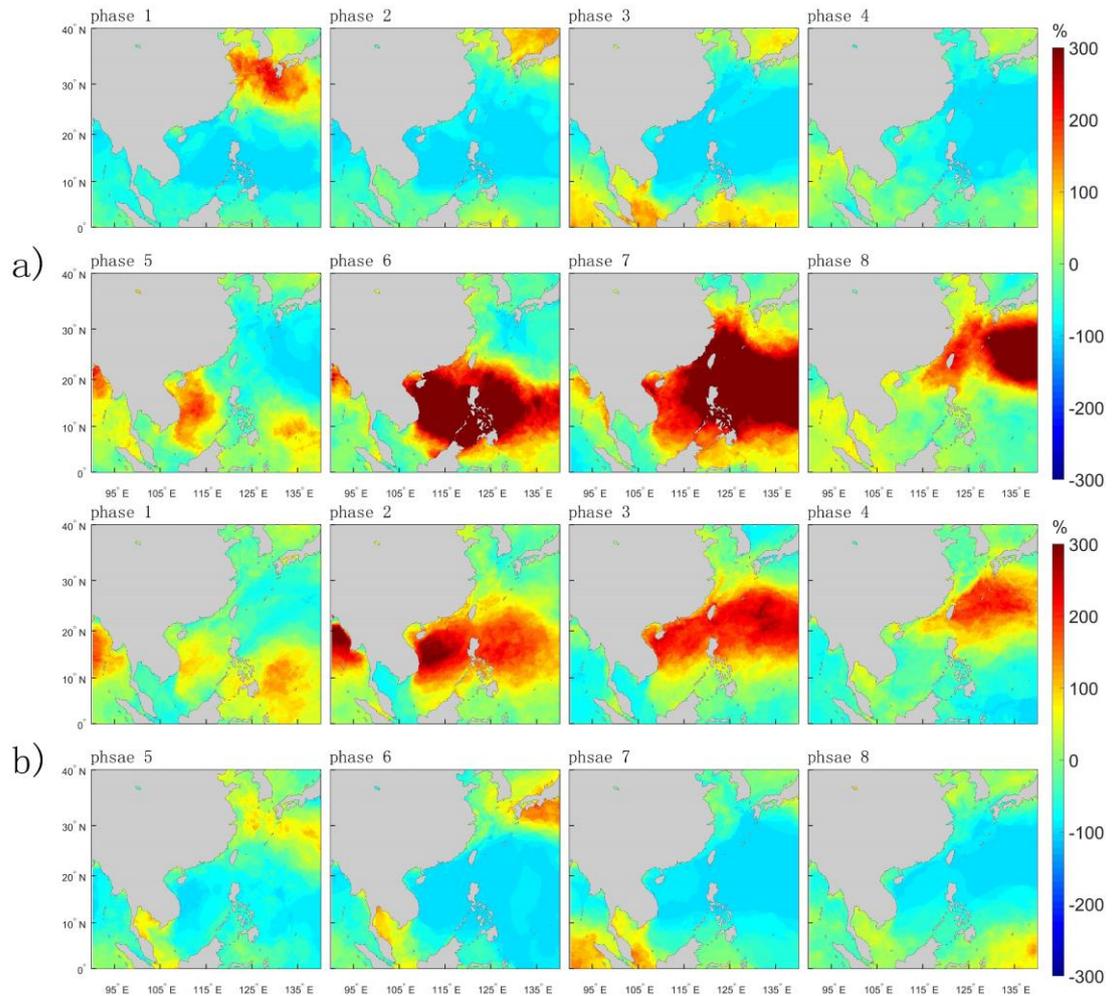
**Figure 7.** As in Figure 4, but for BSISO and in summer season. Colors indicate phase and contours represent amplitude (units: cm). Thin dash line for 1, thin solid line for 2, thick dash line for 3, thick solid line for 4).



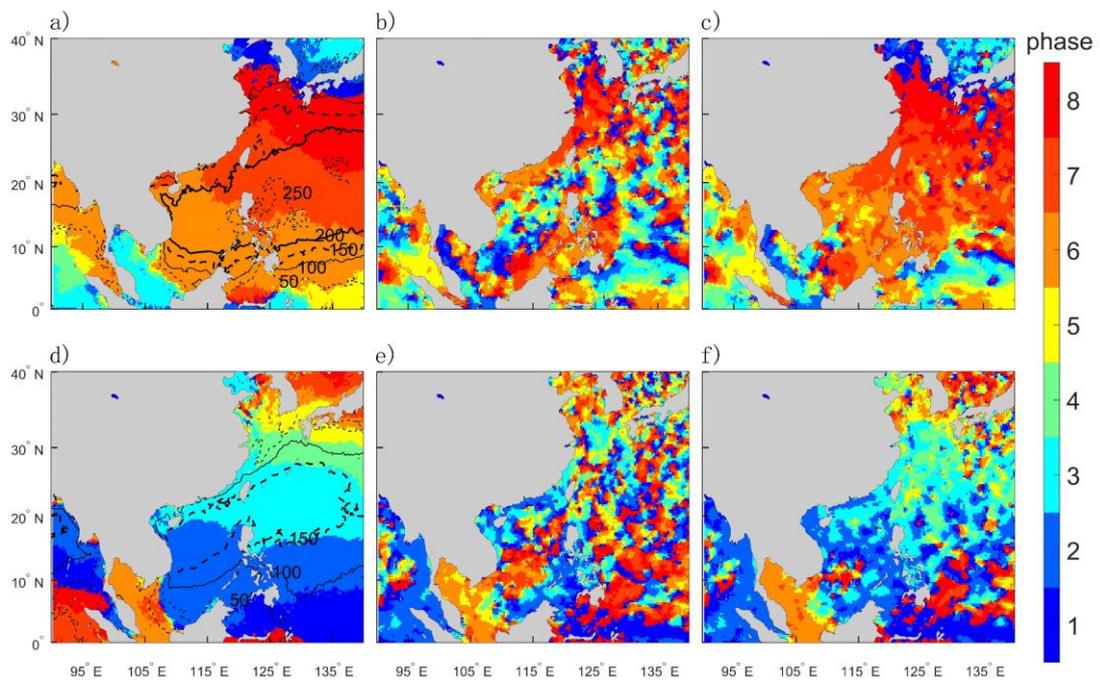
**Figure 8.** Probability changes of ESL events in MJO phases for DAC: (a) extreme high events (R95); (b) extreme low events (R5).



**Figure 9.** (a-c) Harmonic parameters of probability changes in ESL high events due to MJO modulations for DAC, SLA and TSL, respectively. (d-f) as in (a-c), but for ESL low events. Colors indicate phase and contours represent amplitude (units: %). Thin dash line for 50, thin solid line for 100, thick dash line for 150, thick solid line for 200.



**Figure 10.** As in Figure 8 but for BSISO and in summer season.



**Figure 11.** As in Figure 9, but for BSISO and in summer season.