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Intraseasonal and interannual variations of the stratosphere-troposphere coupled system

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'Stratosphere-Troposphere Dynamical Coupling' is a new initiative of WCRP/SPARC. Recent activities under this initiative are reviewed and contribution of our group with mechanistic circulation models is summarized. We obtained some new dynamical and statistical results about the influences of the equatorial QBO and the heating anomaly near the stratopause on the occurrence of stratospheric sudden warming events and their dynamical evolutions.