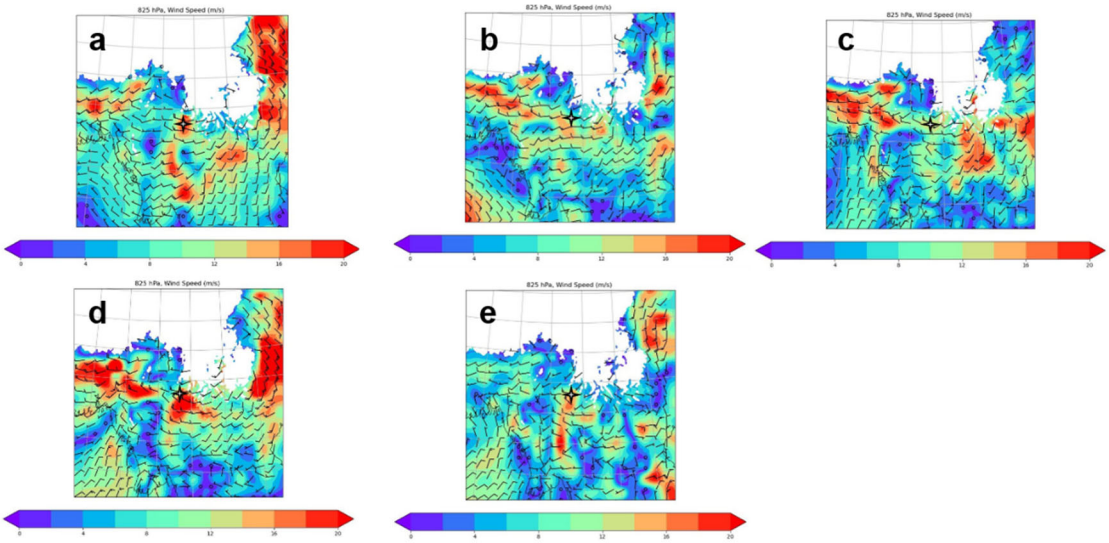

Figure S1. The air currents status during the peak days in spring migration periods. The star in the center of the map indicates Ruili City; a-e: 2019-2023.

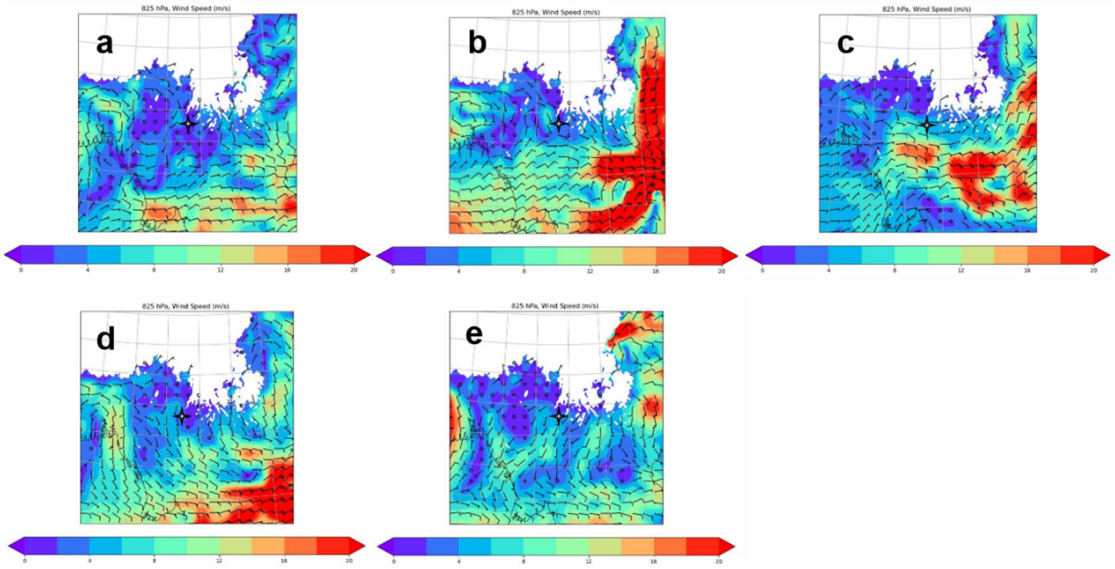

Figure S2. The air currents status during the peak days in autumn migration periods. The star in the center of the map indicates Ruili City; a-e: 2019-2023.

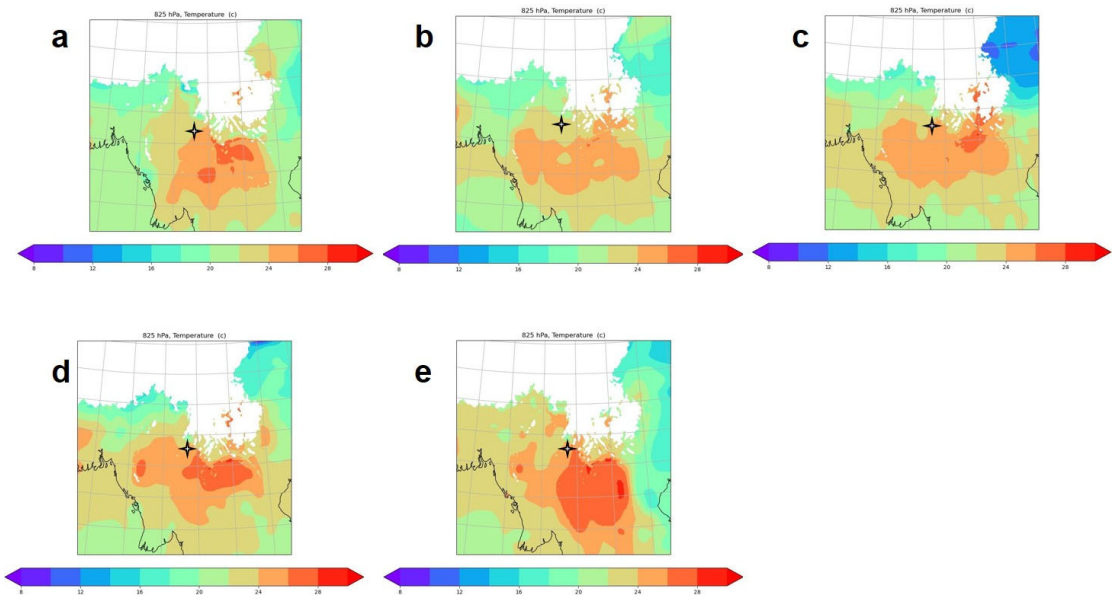

Figure S3. The temperature status during the peak days in autumn migration periods. The star in the center of the map indicates Ruili City; a-e: 2019-2023.

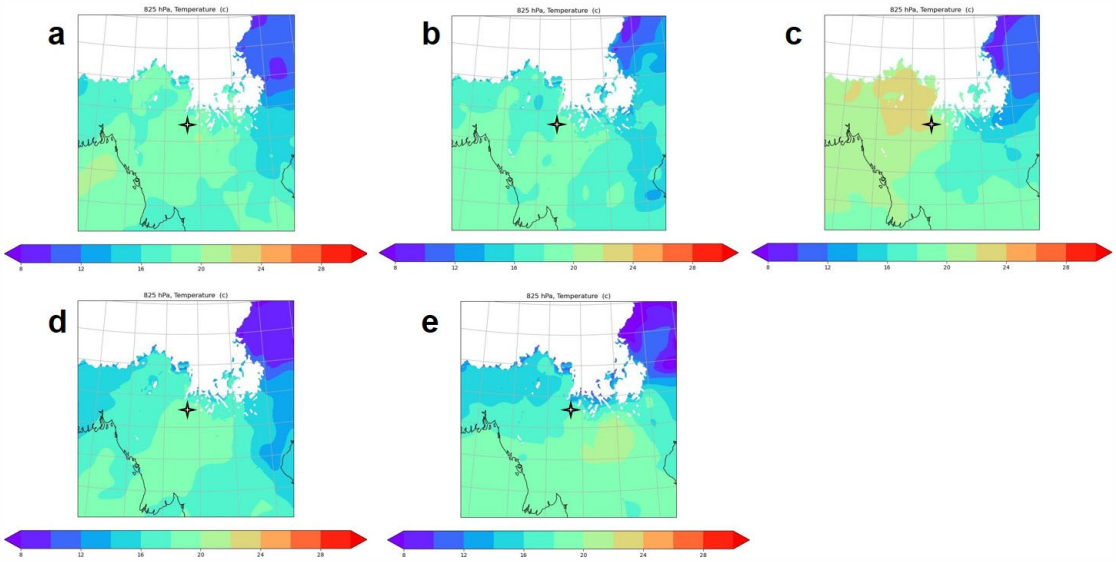

Figure S4. The temperature status during the peak days in autumn migration periods. The star in the center of the map indicates Ruili City; a-e: 2019-2023.