

(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.


(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}N - 50^{\circ}N$ .



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.


(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}N - 50^{\circ}N$ .



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.



(a) Latitude-altitude dependence of bias (top) and drift (b) Time series (top) and seasonal dependence (bottom) (bottom). Significant drift values are shaded. of differences for  $30^{\circ}$ N -  $50^{\circ}$ N.



(c) Time-latitude dependence of median difference at (d) Latitude-altitude dependence of errors in bias (top) 15 hPa (top) and 50 hPa (bottom). and drift (bottom), respectively.