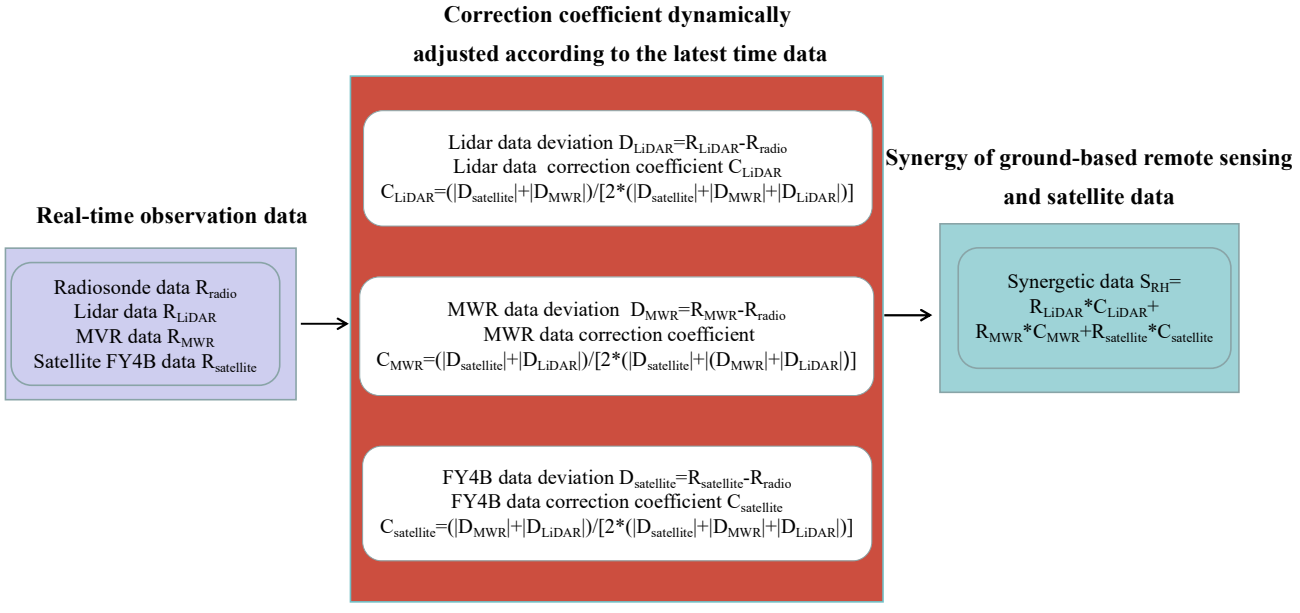
Correction coefficient dynamically
adjusted according to the latest time data
Real-time observation data
Radiosonde data R_{radio}
Lidar data R_{LiDAR}
MVR data R_{MWR}
Satellite FY4B data $R_{satellite}$
Lidar data deviation $D_{LiDAR}=R_{LiDAR}-R_{radio}$
Lidar data correction coefficient C_{LiDAR}
$C_{LiDAR}=(|D_{satellite}|+|D_{MWR}|)/[2*(|D_{satellite}|+|D_{MWR}|+|D_{LiDAR}|)]$
MWR data deviation $D_{MWR}=R_{MWR}-R_{radio}$
MWR data correction coefficient
$C_{MWR}=(|D_{satellite}|+|D_{LiDAR}|)/[2*(|D_{satellite}|+|(D_{MWR}|+|D_{LiDAR}|)]$
FY4B data deviation $D_{satellite}=R_{satellite}-R_{radio}$
FY4B data correction coefficient $C_{satellite}$
$C_{satellite}=(|D_{MWR}|+|D_{LiDAR}|)/[2*(|D_{satellite}|+|D_{MWR}|+|D_{LiDAR}|)]$
Synergy of ground-based remote sensing
and satellite data
Synergetic data $S_{RH}=$
$R_{LiDAR}*C_{LiDAR}+$
$R_{MWR}*C_{MWR}+R_{satellite}*C_{satellite}$