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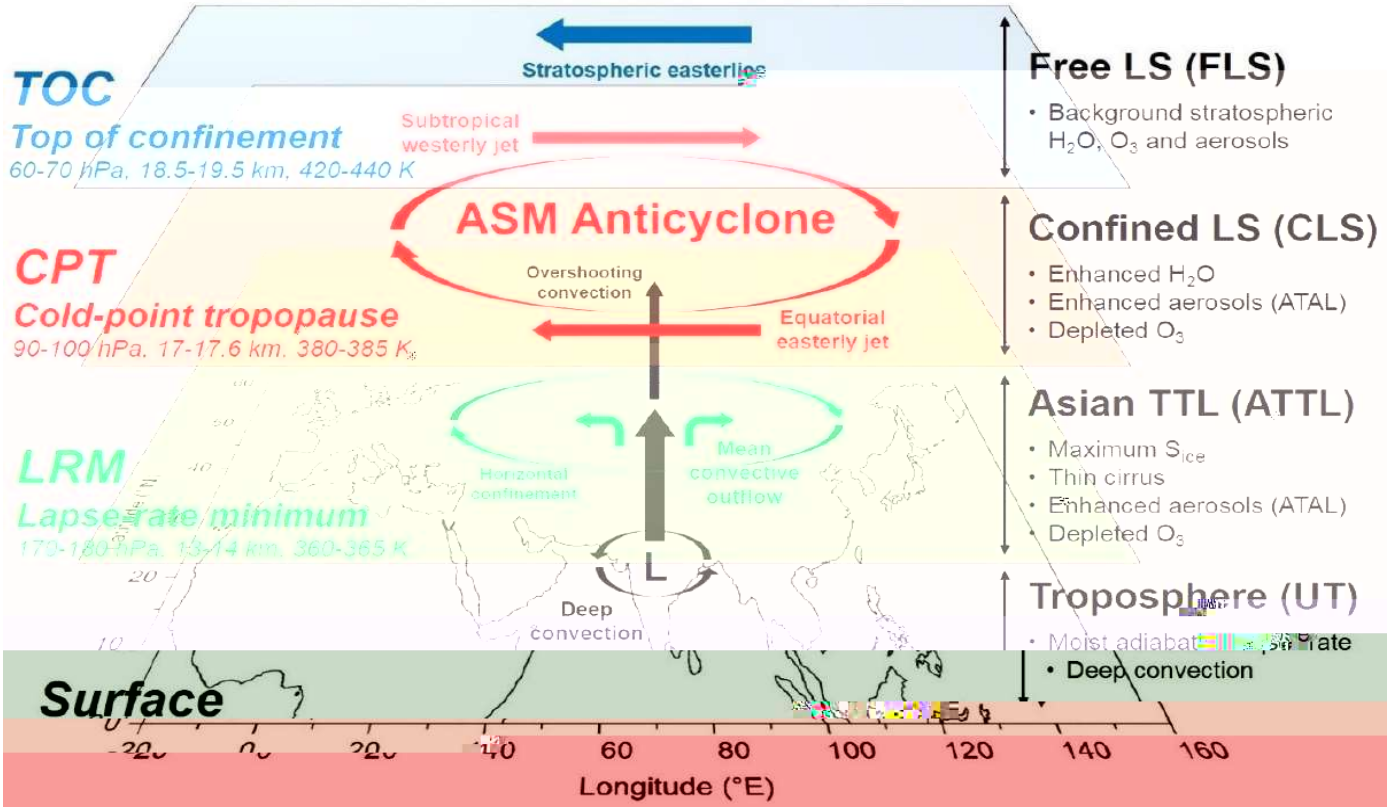
TOC
Top of confinement
60-70 hPa, 18.5-19.5 km, 420-440 K
CPT
Cold-point tropopause
90-100 hPa, 17-17.6 km, 380-385 K
LRM
Lapse-rate minimum
170-180 hPa, 13-14 km, 360-365 K
Surface
Stratospheric easterlies
Subtropical westerly jet
ASM Anticyclone
Overshooting convection
Equatorial easterly jet
Horizontal confinement
Mean convective outflow
L
Deep convection
Free LS (FLS)
• Background stratospheric $H_2O$, $O_3$ and aerosols
Confined LS (CLS)
• Enhanced $H_2O$
• Enhanced aerosols (ATAL)
• Depleted $O_3$
Asian TTL (ATTL)
• Maximum $S_{ice}$
• Thin cirrus
• Enhanced aerosols (ATAL)
• Depleted $O_3$
Troposphere (UT)
• Deep convection
60
80
100
120
140
160
Longitude (°E)

$r_m$ $\sigma$

$r_m$ $\sigma$