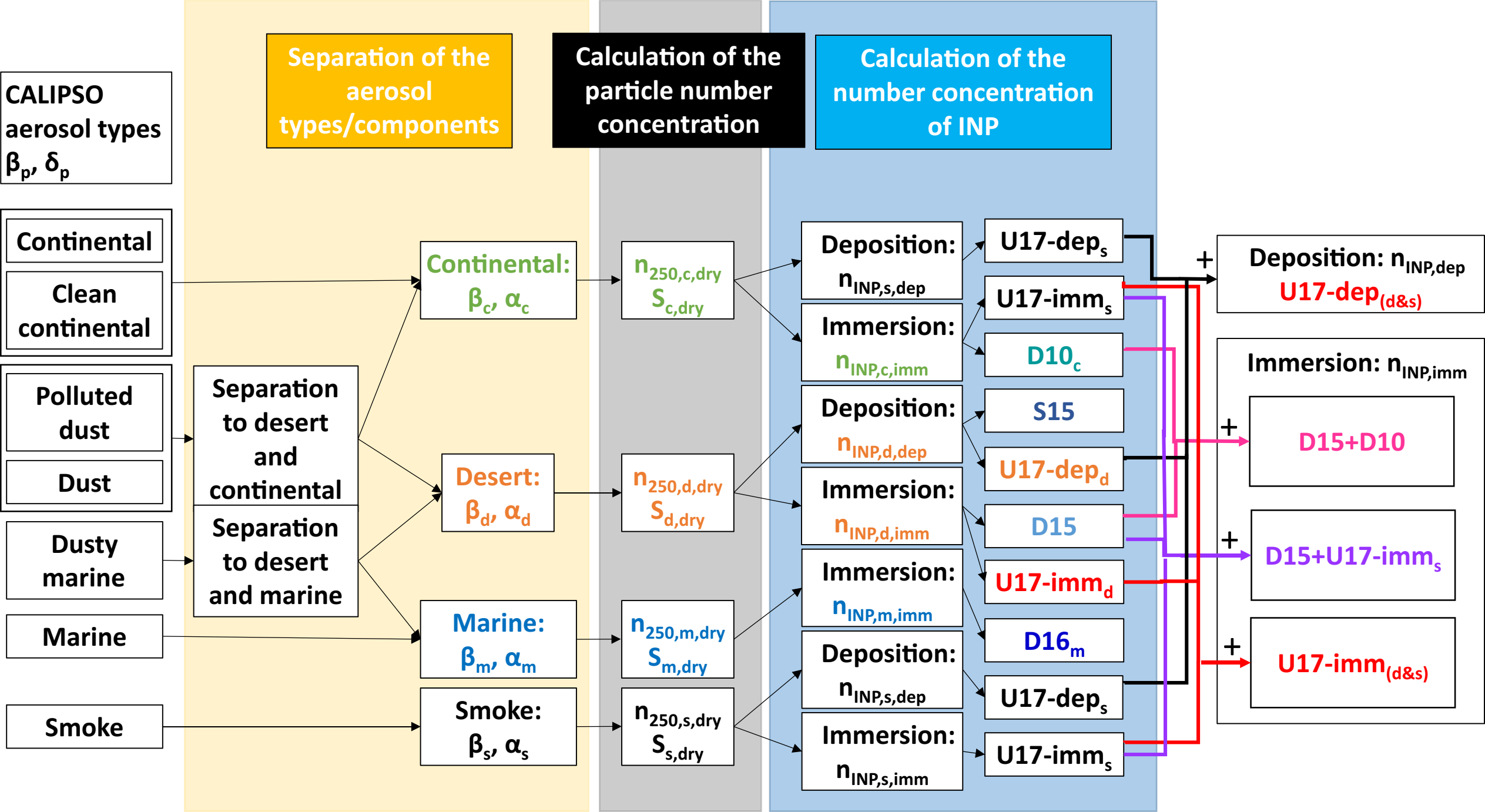
CALIPSO aerosol types β_p, δ_p
Separation of the aerosol types/components
Calculation of the particle number concentration
Calculation of the number concentration of INP
Continental
Clean continental
Polluted dust
Dust
Dusty marine
Marine
Smoke
Separation to desert and continental
Separation to desert and marine
Continental: β_c, α_c
Desert: β_d, α_d
Marine: β_m, α_m
Smoke: β_s, α_s
$n_{250,c,dry}$ $S_{c,dry}$
$n_{250,d,dry}$ $S_{d,dry}$
$n_{250,m,dry}$ $S_{m,dry}$
$n_{250,s,dry}$ $S_{s,dry}$
Deposition: $n_{INP,s,dep}$
Immersion: $n_{INP,c,imm}$
Deposition: $n_{INP,d,dep}$
Immersion: $n_{INP,d,imm}$
Immersion: $n_{INP,m,imm}$
Deposition: $n_{INP,s,dep}$
Immersion: $n_{INP,s,imm}$
U17-dep$_s$
U17-imm$_s$
D10$_c$
S15
U17-dep$_d$
D15
U17-imm$_d$
D16$_m$
U17-dep$_s$
U17-imm$_s$
+
Deposition: $n_{INP,dep}$
U17-dep$_{(d\&s)}$
Immersion: $n_{INP,imm}$
+
D15+D10
+
D15+U17-imm$_s$
+
U17-imm$_{(d\&s)}$