Main-Processing

drive_all.m

load name_list;   load cal.mat

set flags

do_vel_m   =1;   load vel_m.mat;

do_vel_p   =1;   load vel_p.mat;

do_dTdz_m =1;   load dTdz_m.mat;

do_dTdz_i =1;   load dTdz_m.mat;
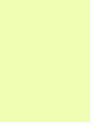
do_eps_p =1;   load cal_p.mat

do_ic   =1;

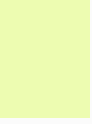## loop through each raw_files

calibrate_raw_data

	input raw, cal
	calibrate_raw
	output data

jj_vm   = find(times in vel_m that fit to raw_file)
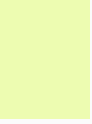spd_m = speed passed sonsor (vel_m, heading, acc)

jj_vp   = find(times in vel_p that fit to raw_file)
spd_p = use pitot speed

cal chi_mm
spd = spd_m; dTdz = dTdz_m   **chi_mm_0000.mat**
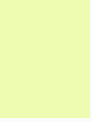
cal chi_pm
spd = spd_p; dTdz = dTdz_m   **chi_pm_0000.mat**

cal chi_mi
spd = spd_m; dTdz = dTdz_i   **chi_mi_0000.mat**

cal chi_pi
spd = spd_p; dTdz = dTdz_i   **chi_pi_0000.mat**

input spd, dTdz, data
χ
output chi, eps, K_t

cal chi_mm
spd = spd_m; dTdz = dTdz_m   **chi_mm_ic_0000.mat**

cal chi_pm
spd = spd_p; dTdz = dTdz_m   **chi_pm_ic_0000.mat**

cal chi_mi
spd = spd_m; dTdz = dTdz_i   **chi_mi_ic_0000.mat**
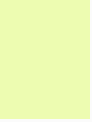
cal chi_pi
spd = spd_p; dTdz = dTdz_i   **chi_pi_ic_0000.mat**

input spd, dTdz, data
χ_{ic}
output chi, eps, K_t

cal eps_p   **eps_p_0000.mat**

input data, cal_p
ϵ_{pitot}
output eps_p