

Correspondence of satdata elements with symbols from lecture.

%	SVID - satellite number	
%	health - satellite health flag (0 = healthy; otherwise unhealthy)	
%	we - week of ephemeris epoch (GPS week, unambiguous)	} t_e
%	te - time of ephemeris epoch (GPS seconds of week)	
%	wc - week of clock epoch (GPS week)	} t_c (use later on to solve for SV clock)
%	tc - time of clock epoch (GPS seconds of week)	
%	e - eccentricity (unitless) - e	
%	sqrta - sqrt of orbit semi-major axis ($m^{1/2}$) - \sqrt{a}	
%	omega0 - argument of perigee (rad.) - ω_0	
%	M0 - mean anomaly at epoch (rad.)	M_0
%	L0 - longitude of ascending node at beginning of week (rad.)	Ω_0
%	i0 - inclination angle at epoch (rad.) - i_0	
%	dOdt - longitude rate (rad / sec.)	$\dot{\Omega}$
%	dn - mean motion difference (rad / sec.)	δn
%	didt - inclination rate (rad / sec.)	\dot{i}
%	Cuc - cosine correction to argument of perigee (rad.)	C_{uc}
%	Cus - sine correction to argument of perigee (rad.)	C_{us}
%	Crc - cosine correction to orbital radius (m)	C_{rc}
%	Crs - sine correction to orbital radius (m)	C_{rs}
%	Cic - cosine correction to inclination (rad.)	C_{ic}
%	Cis - sine correction to inclination (rad.)	C_{is}
%	af0 - 0th order satellite clock correction (s)	} (use later on to solve for SV clock)
%	af1 - 1st order satellite clock correction (s / s)	
%	af2 - 2nd order satellite clock correction (s / s ²)	
%	TGD - group delay time for the satellite (s)	

Note: Constants such as μ , a , ω_{Earth} are found in navConstants.m:

$$\mu = GM$$

$$a = AA$$

$$b = BB$$

$$\omega_{Earth} = \Omega_{Earth}$$