
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

- [illegible]

1. Introduction

1. The first group of variables includes the following:

iau_ELP	Precession matrix, J2000.0 to date using the Vondrak et al. long-term model.
iau_LTPB	Precession+bias matrix, J2000.0 to date using the Vondrak et al. long-term model.
iau_LTPECL	Precession (Vondrak et al. long-term) of the ecliptic. A unit vector representing the direction of the ecliptic pole with respect to the J2000.0 mean equator and equinox
iau_LTPEQU	Precession (Vondrak et al. long-term) of the equator. A unit vector representing the direction of the pole of the equator with respect to the J2000.0 mean equator and equinox.

iau_ECM06	ICRS (equatorial) to ecliptic rotation matrix using IAU 2006 precession.
iau_EQEC06	Equatorial to ecliptic coords: transformation of ICRS right ascension and declination to ecliptic longitude and latitude (mean equinox and ecliptic of date) using IAU 2006 precession.
iau_LTECEQ	Ecliptic coords to equatorial: transformation of ecliptic longitude and latitude (mean equinox and ecliptic of date) to mean J2000.0 right ascension and declination, using the Vondrak et al. long-term precession.
iau_LTECM	ICRS (equatorial) to ecliptic rotation matrix using the Vondrak et al. long-term precession.
iau_LTEQEC	Equatorial to ecliptic coords: transformation of ICRS right ascension and declination to ecliptic longitude and latitude (mean equinox and ecliptic of date) using the Vondrak et al. long-term precession.

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

