Changes for SOFA issue: 2009-12-31

New functions

```
iauEform      a,f for a nominated Earth reference ellipsoid
iauGc2gd      geocentric to geodetic for a nominated ellipsoid
iauGc2gde     geocentric to geodetic given ellipsoid a,f
iauGd2gc      geodetic to geocentric for a nominated ellipsoid
iauGd2gce     geodetic to geocentric given ellipsoid a,f
```

Miscellaneous

Code now includes SOFA release ID.

Where appropriate, Julian and Besselian epochs such as J2000 and B1900 have had the conventional ".0" added. About one quarter of all routines (plus one of the header files) were affected by this cosmetic change.

board.lis

Change in email address.

copyr.lis

Revised copyright/license statement.

cal2jd.c

Additional static declaration.

dat.c

Variable dat changed to da to avoid clash with abbreviated function name.

fk5hz.c

Corrections to preamble comments.

intro.lis

Revised.

nut00b.c

Additional static declarations.

s06.c

Additional static declarations.

sofa.h

Reference to non-existent iauC2tceo function removed.

starpv.c

Code improvements to avoid testing floating point quantities for equality.

t_sofa_c.c

Enhanced.

title.lis

Updated.

xy06.c

Additional static declarations.

21/12/2009

Revisions – 25/01/2010
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1) bp00.c, bpn2xy.c, c2i00a.c, c2i00b.c, c2ibpn.c, pn00a.c, pn00b.c, pn00.c,
   s00a.c, s00b.c, s00.c, s06a.c – correct Astronomy & Astrophysics reference.

2) eform.c – add WGS72 reference ellipsoid.

3) gc2gd.c, gd2gc.c – Correct name of routine for inverse transformation.

4) gd2gc.for/c use routine ZP to zero vector.

5) Correction to comment in pnm80.c.

6) t_sofa_f.c – Update validation routine.

7) Correct typos in manual.lis and intro.lis.

Revision – 27/01/2010
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1) Test program t_sofa_c.c has been updated to provide correct verification of
   eform.c, gc2gd.c and gd2gc.c.