Changes in cycle 000372

/usr/local/lib/metaps/lib/000372/libemos.R32.D64.I32.a

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Note that the rs6000 libraries contain both underscored and non-underscored versions of modules.

BUFR routines

- buens4.F: Fixing bug introduced in when compressing characters strings
- BUFR table D 307079 sequence added
- BUFR table B 014045 -014048 unit changed for channel radiance which is wrong in WMO table
- Added WMO FM-12 SYNOP bulletins conversion software to FM-94 BUFR format.
  Converted BUFR data are using 307080 standard template. There is GTS bulletin header creation program to prepare BUFR SYNOP data for GTS transmission

Gribex routines

- grchk1.F: added classes 19 Monitoring Atmospheric Composition and Climate, 20 Permanent experiments
- added Local Definition 32 - New Cluster means and cluster representatives

Interpolation software

- hirlsm.F added land-sea mask check for all parameters in nearest neighbour case. Closest and same land sea mask type is selected rather then just closest Set env variable export .NEAREST_NEIGHBOUR_NEW =1
- intfb.F: updated dissemination auresol table
- added reduced Gaussian definitions N1024 and N2000