GammaLib - Bug #3552

Avoid FITS rounding errors in GWcs::compare method

02/24/2021 12:50 PM - Knödlseder Jürgen

Status:	Closed		**Start date:**	02/24/2021
Priority:	Immediate		**Due date:**	
Assigned To:	Knödlseder Jürgen		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:	2.0.0			
Description				
When writing and reading back the WCS definition from a FITS file rounding errors may occur in GWcs::compare due to the finit precision of floating point values in the FITS header. A tolerance should be added for the comparison of two floating point values.				

History

#1 - 02/24/2021 02:54 PM - Knödlseder Jürgen

- *Status changed from New to Pull request*

- *% Done changed from 0 to 90*

I added the gammalib::compare() function to compare two floating point values with tolerance. However, I could not reproduce the issue with the WCS definition rounding errors, hence I did not implement any modification of the WCS comparison methods.

#2 - 02/24/2021 03:41 PM - Knödlseder Jürgen

- *Status changed from Pull request to Closed*

- *% Done changed from 90 to 100*

Merged into devel.