GammaLib - Action #1137

Action # 1096 (Closed): BackgroundModel from IRF

Bug Fix for the new GCTAModelBackground constructor

02/07/2014 11:13 AM - Gerard Lucie

Status:	Closed		Start date:	02/07/2014
Priority:	Immediate		Due date:	
Assigned To:	Gerard Lucie		% Done:	100%
Category:			Estimated time:	0.00 hour
Target version:	00-09-00			

Description

Some bugs have been found in relation with the following new GCTAModelBackground constructor:
GCTAModelBackground::GCTAModelBackground(const GCTAObservation& obs,
const std::string&   filename,
const GModelSpectral& spectral,
const int&   nx_sky,
const int&   ny_sky,
const int&   n_energy)

and the related function

void GCTAModelBackground::set_spatial(const GCTAObservation& obs,
const std::string&   filename,
const int&   nx_sky,
const int&   ny_sky,
const int&   n_energy)

The needed fix are:
- in the constructor: initialisation of m_temporal
- in set_spatial: correct filling of the GEnergies in the case m_energy=0
- in @set_spatial: add GException in case nx_sky or ny_sky or n_energy is <0 (not really a bug but taken care of here anyway)

History

#1 - 02/07/2014 11:23 AM - Mayer Michael

While looking through the code I also found a small bug in set_spatial which causes all GEnergies to have the same value. In line 1094f.:

GEnergy emin(background.axis_lo(2,0), unit_lo);
GEnergy emax(background.axis_hi(2,background.axis(2)-1), unit_hi);

should probably be changed to

GEnergy emin(background.axis_lo(2,i), unit_lo);
GEnergy emax(background.axis_hi(2,i), unit_hi);

#2 - 02/07/2014 11:24 AM - Gerard Lucie

that's what I meant but the second fix needed smile.png

#3 - 02/07/2014 11:26 AM - Mayer Michael

oh yes, sorry :). Great that we found the same one

#4 - 02/07/2014 11:42 AM - Gerard Lucie

- Status changed from New to Pull request

branch 1137_GCTAModelBackground_bug_fix have been created. Previously mentioned fix are implemented there.

#5 - 02/08/2014 10:06 PM - Knödlseder Jürgen

Have you pushed the branch into the repository? I cannot see it ...

#6 - 02/09/2014 09:49 AM - Gerard Lucie

The push command was not the full one...
With "git push origin 1137_GCTAModelBackground_bug_fix" the branch should now be there, hopefully.

#7 - 02/09/2014 10:48 PM - Knödlseder Jürgen

- Status changed from Pull request to Feedback

- Target version set to 2nd coding sprint

- % Done changed from 0 to 100

Got it. Merged into devel.

#8 - 07/19/2014 02:13 AM - Knödlseder Jürgen

- Status changed from Feedback to Resolved

- Target version changed from 2nd coding sprint to 00-09-00

#9 - 07/20/2014 11:24 PM - Knödlseder Jürgen

- Status changed from Resolved to Closed

- Remaining (hours) set to 0.0