

GammaLib - Support #1909

**npred return error: TypeError: in method 'GModelSky\_npred', argument 4 of type 'GObservation const &'**

01/18/2017 11:38 AM - Rodriguez Fernandez Gonzalo

<b>Status:</b>	Closed	<b>Start date:</b>	01/18/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Knödseder Jürgen	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b> Dear all,  I am using gammalib 1.1.0 and ctools 1.1.0 I am trying to extract the npred from the models as a function of energy after fitting some data.  <pre>models = like.obs().models() for k,m in enumerate(models):     obsEng  = ebounds.elogmean(i)     source[i] = m.npred(obsEng, obsTime, obs) ....</pre> but I have an error, in the documentation npred function have 3 parameters, but here it is said that I need another parameter.  File "/Users/grod/DPA/External/gamma/gammalib-1.1.0/lib/python2.7/site-packages/gammalib/model.py", line 704, in npred return _model.GModelSky_npred(self, obsEng, obsTime, obs) TypeError: in method 'GModelSky_npred', argument 4 of type 'GObservation const &'  What I am doing wrong?  Thanks in advance! Gonzalo.			

History

#1 - 01/18/2017 02:40 PM - Knödseder Jürgen

- Status changed from New to In Progress
- Assigned To set to Knödseder Jürgen
- % Done changed from 0 to 10

The difference in the number of arguments comes from the fact that a Python method always has as first argument the class object itself (argument self). Hence a method with 3 arguments has in fact 4 arguments internally, but when you call the method, you don't have to specify the first argument, so your number of arguments is correct.

The problem in your case may come from the type of the obs argument. From your code snippet I don't know what type it has. It should be of type GObservation (or any derived type, such as GCTAObservation).

What is the type of obs in your case?

#2 - 01/18/2017 02:51 PM - Rodriguez Fernandez Gonzalo

- Assigned To deleted (Knödseder Jürgen)

- % Done changed from 10 to 0

That's the problem!

I've made a mistake, I was using a GObservations object as the last argument!,  
Now I just put the correct GCTAObservation object and It is working!

Thanks!  
Gonzalo.

**#3 - 01/18/2017 03:07 PM - Knödseder Jürgen**

- Status changed from In Progress to Closed

- Assigned To set to Knödseder Jürgen

- % Done changed from 0 to 100

Good to see that it's solved.