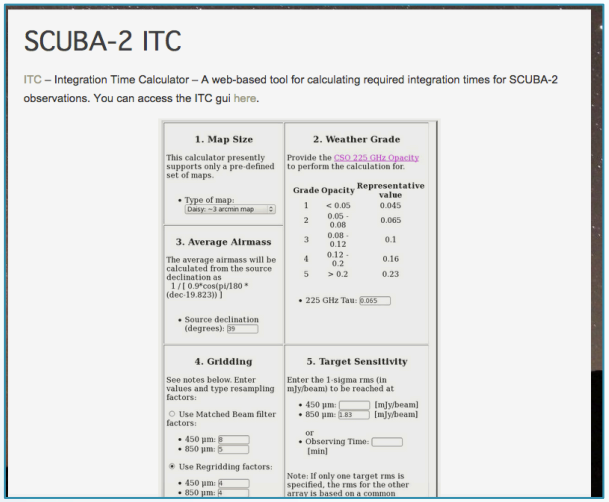
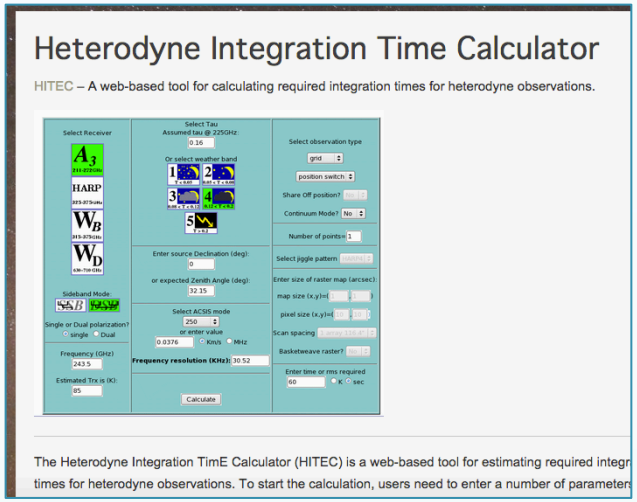
Proposal Preparation and Submission

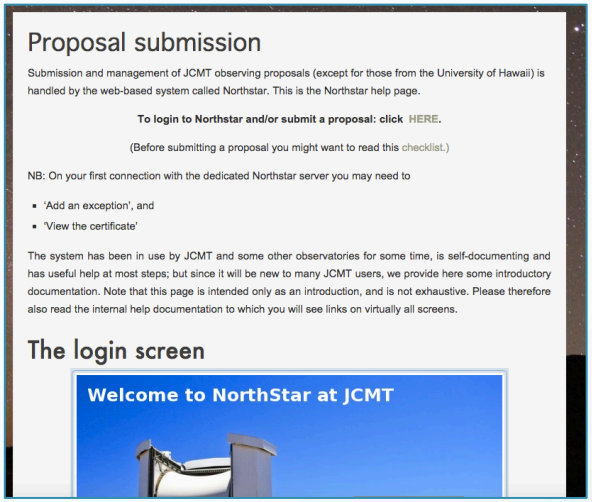
Harriet Parsons, Support Scientist, JAC/EAO

To implement the topics covered in this workshop you will need:

- A feasible science idea
- A computer
- Access to the internet for the following pages:







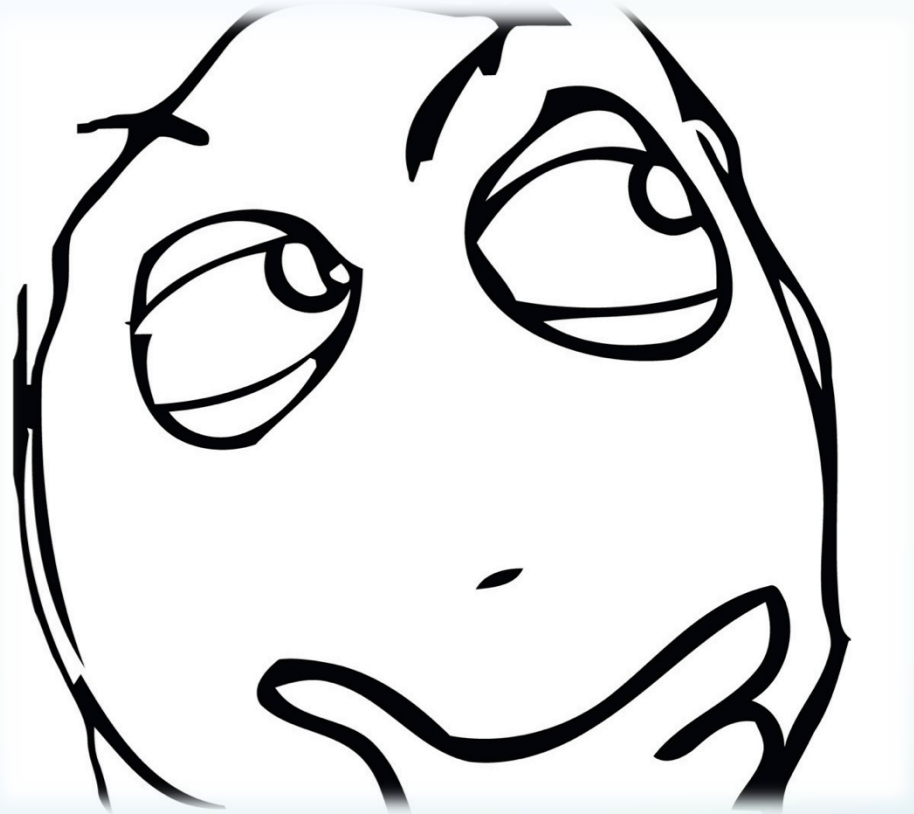
You may want to bookmark these links:

- www.eaobservatory.org/jcmt/instrumentation/continuum/scuba-2/itc/
- www.eaobservatory.org/jcmt/instrumentation/heterodyne/itc/
- www.eaobservatory.org/jcmt/proposals/northstar/

Example 1: SCUBA-2

I have an interesting fragmented star forming complex I wish to observe. I wish to obtain a depth of 5mJy at 850 microns. The region is located at an RA and Dec of: 19h and +09°.

The complex I am interested in is large and spreads out nearly a degree in extent, requiring a Pong 3600 to cover the entire region.



- www.eaobservatory.org/jcmt/instrumentation/continuum/scuba-2/itc/

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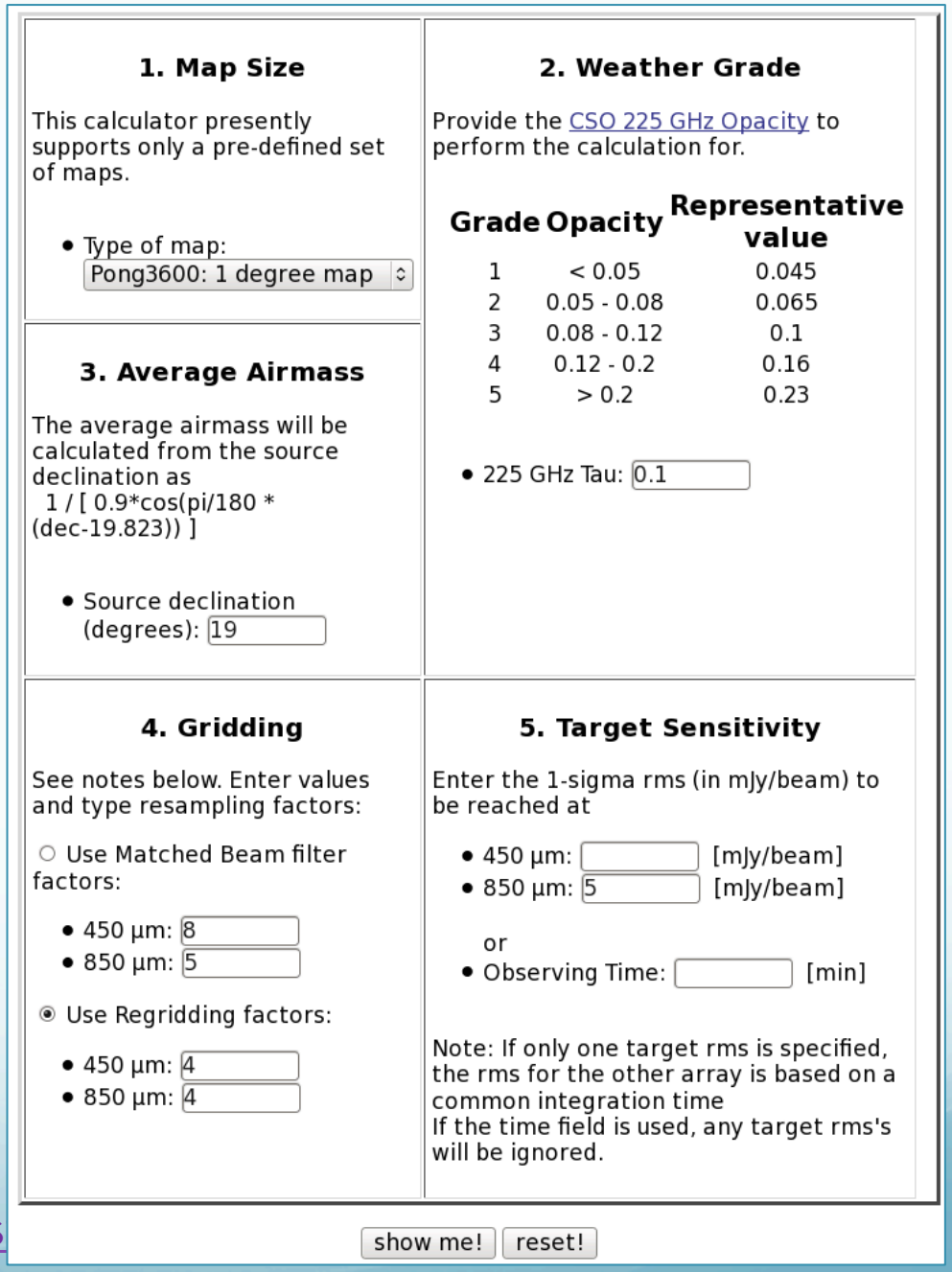
- www.eaobservatory.org/jcmt/ins



1. Map Size

This calculator presently supports only a pre-defined set of maps.

- Type of map: Pong3600: 1 degree map

2. Weather Grade

Provide the CSO 225 GHz Opacity to perform the calculation for.

Grade	Opacity	Representative value
1	< 0.05	0.045
2	0.05 - 0.08	0.065
3	0.08 - 0.12	0.1
4	0.12 - 0.2	0.16
5	> 0.2	0.23

- 225 GHz Tau: 0.1

3. Average Airmass

The average airmass will be calculated from the source declination as
1 / [0.9*cos(pi/180 * (dec-19.823))]

- Source declination (degrees): 19

4. Gridding

See notes below. Enter values and type resampling factors:

○ Use Matched Beam filter factors:

- 450 μm: 8
- 850 μm: 5

◉ Use Regridding factors:

- 450 μm: 4
- 850 μm: 4

5. Target Sensitivity

Enter the 1-sigma rms (in mJy/beam) to be reached at

- 450 μm: [mJy/beam]
- 850 μm: 5 [mJy/beam]

or

- Observing Time: [min]

Note: If only one target rms is specified, the rms for the other array is based on a common integration time
If the time field is used, any target rms's will be ignored.

show me! reset!

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SCUBA-2 Integration Time Calculator

v2.1 (2013-08-28 / module 0.01): Option to specify obs. time added. Based on early 2012 calibration info (~10-12% shorter times than previous version)

Results:

No 450 µm rms target was specified: the rms was calculated using the computed 850 µm integration time.

	450	850
Map type:	Pong3600	
Description:	Pong3600: 1 degree map	
Source Declination: [Deg]:	19.0	
Average Airmass:	1.111	
225 GHz Opacity:	0.100	
SCUBA2 Opacity:	2.289	0.440
Transmission:	0.079	0.613
Resampling factors:	4.0	4.0
On-source Integration time [sec]:	53047	53047
...hours, min, sec:	14 hr 44 min 7 s	14 hr 44 min 7 s

Broken into 40-min observations including per-observation overheads this results in:

RMS [mJy/beam]:	**172.17**	**5.00**
Required Observing time [sec]:	**55117**	**55117**
...hours, min, sec:	15 hr 18 min 37 s	15 hr 18 min 37 s

ITCstring: Version=v2.1;ModuleVersion=v0.01;TYPE=Pong3600;DEC=19.0;
TAU225=0.100;MODE=R;F450=4.0;F850=4.0;INTT450=53047;INTT850=53047;
RMS850=5.00;OBS450=55117;OBS850=55117;

- www.eaobservatory.org/jcmt/instrumentation/continuum/scuba-2/itc/

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RMS850=5.00;OBS450=55117;OBS850=55117;

In Band 2 requires: 10 hours
In Band 3 requires: 15.5hours
In Band 4 requires: 31 hours

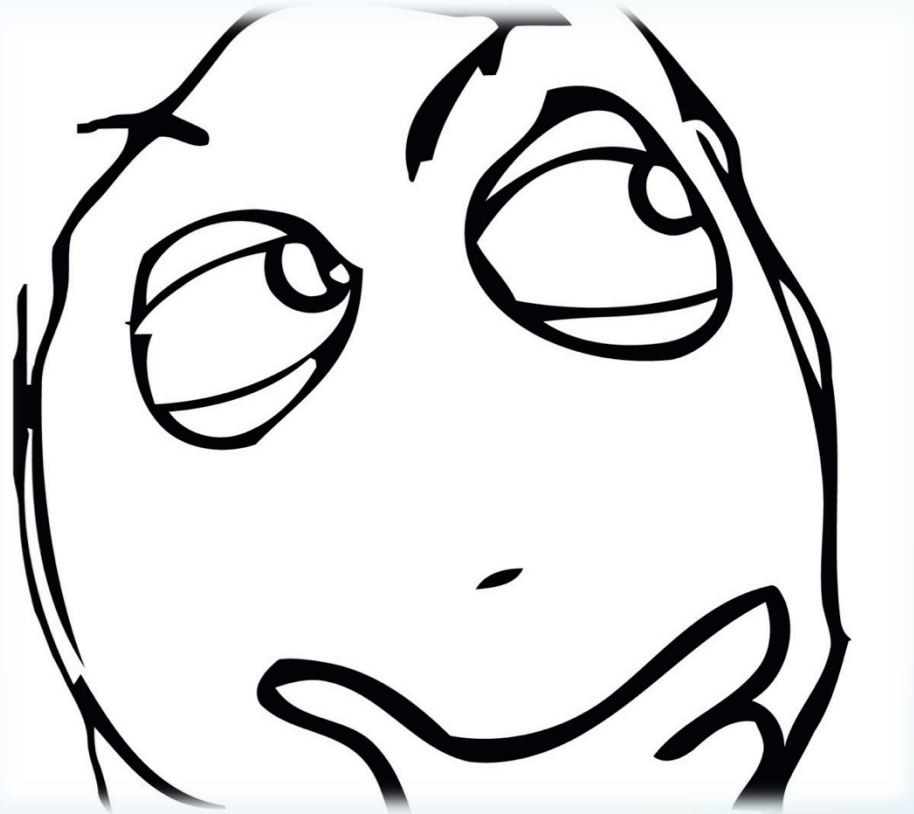
Remember to copy the ITC string into your proposal!

- www.eaobservatory.org/jcmt/instrumentation/continuum/scuba-2/itc/

Example 2: SCUBA-2

I have a collection of 50 Sub-Millimetre Galaxies (SMG's) at a redshift of z=4. I wish to observe them at both 450 and 850 microns. I need to achieve a depth of between 3.5 and 4.5 mJy/beam at 850 microns.

These objects are faint and compact. I expect to use the beam match filter during the reduction stage. The SMG's either have Declinations around: -32° (in the SGP, 38 in total) or Declinations around +30° (in the NGP, 12 in total).



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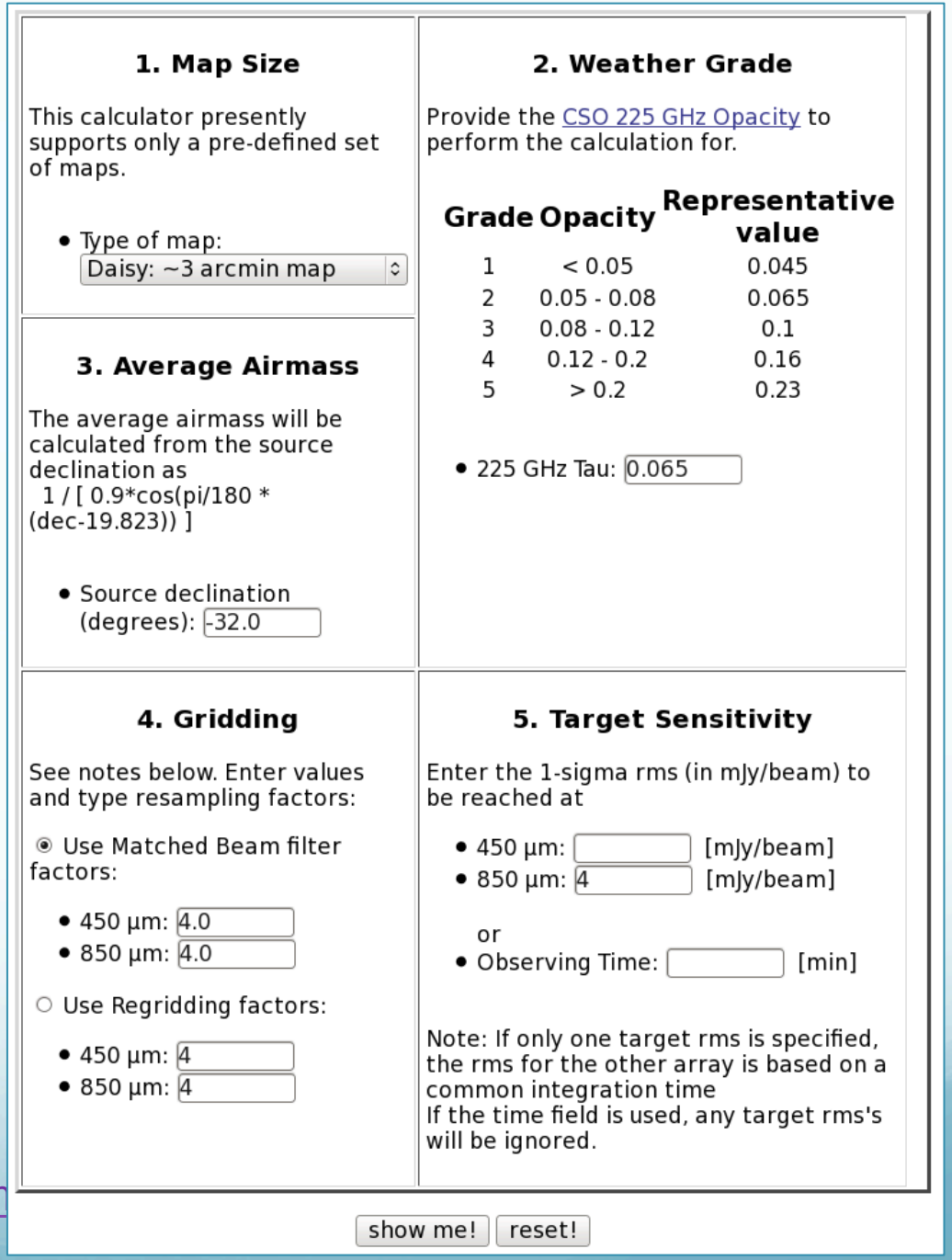
- www.eaobservatory.org/jcmt/in



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SCUBA-2 Integration Time Calculator

v2.1 (2013-08-28 / module 0.01): Option to specify obs. time added. Based on early 2012 calibration info (~10-12% shorter times than previous version)

Results:

No 450 µm rms target was specified: the rms was calculated using the computed 850 µm integration time.

	450	850
Map type:	Daisy	
Description:	Daisy: ~3 arcmin map	
Source Declination: [Deg]:	-32.0	
Average Airmass:	1.798	
225 GHz Opacity:	0.065	
SCUBA2 Opacity:	1.379	0.279
Transmission:	0.084	0.606
Resampling factors:	4.0	4.0
On-source Integration time [sec]:	1089	1089
...hours, min, sec:	0 hr 18 min 9 s	0 hr 18 min 9 s

Broken into 30-min observations including per-observation overheads this results in:

RMS [mJy/beam]:	**122.71**	**4.00**
Required Observing time [sec]:	**1179**	**1179**
...hours, min, sec:	0 hr 19 min 39 s	0 hr 19 min 39 s

ITCstring: Version=v2.1;ModuleVersion=v0.01;TYPE=Daisy;DEC=-32.0;
TAU225=0.065;MODE=M;F450=4.0;F850=4.0;INTT450=1089;INTT850=1089;
RMS850=4.00;OBS450=1179;OBS850=1179;

- www.eaobservatory.org/jcmt/instrumentation/continuum/scuba-2/itc/

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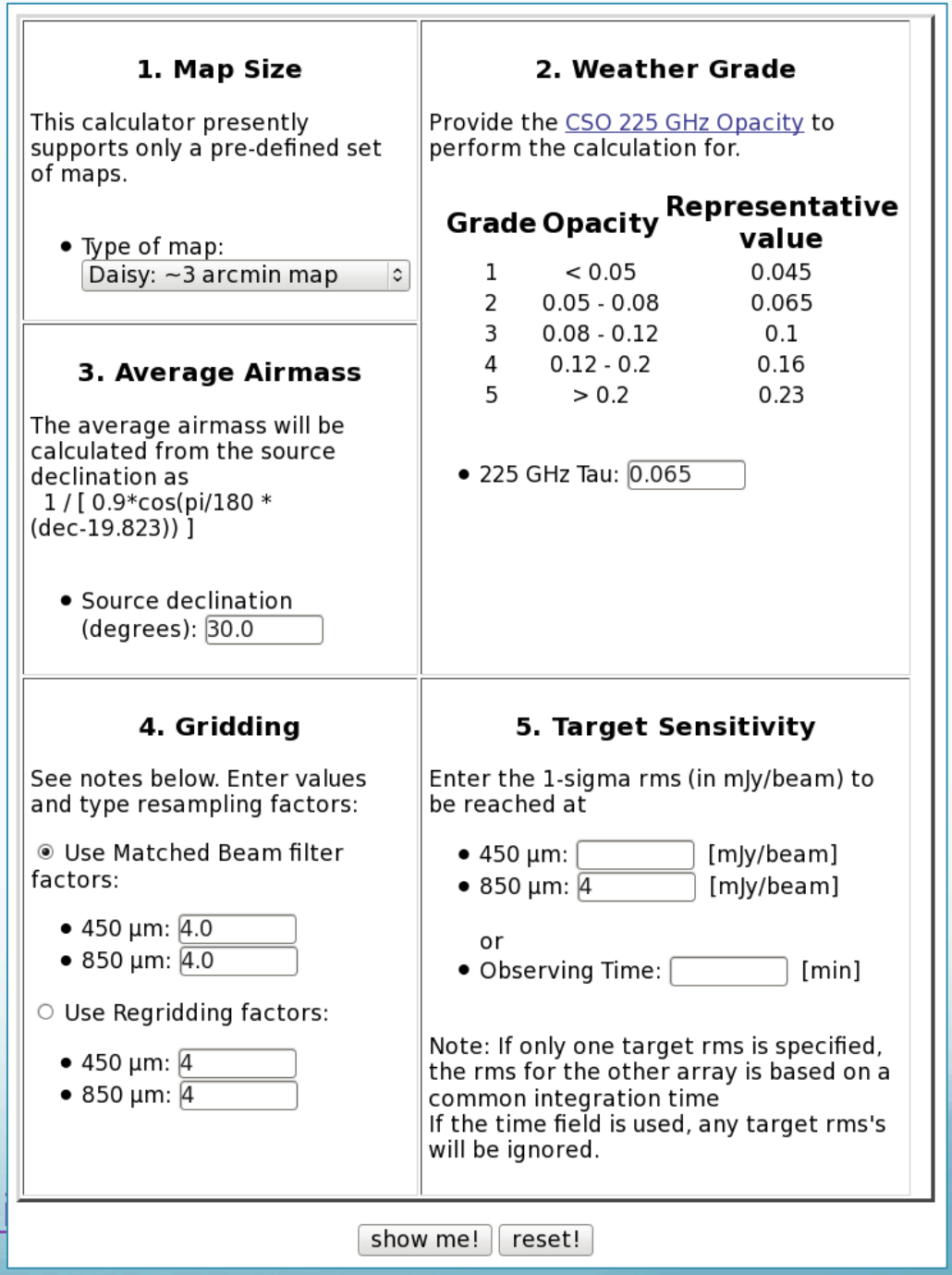
- www.eaobservatory.org/jcmt/



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SCUBA-2 Integration Time Calculator

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Results:

No 450 µm rms target was specified: the rms was calculated using the computed 850 µm integration time.

	450	850
Map type:	Daisy	
Description:	Daisy: ~3 arcmin map	
Source Declination: [Deg]:	30.0	
Average Airmass:	1.129	
225 GHz Opacity:	0.065	
SCUBA2 Opacity:	1.379	0.279
Transmission:	0.211	0.730
Resampling factors:	4.0	4.0
On-source Integration time [sec]:	695	695
...hours, min, sec:	0 hr 11 min 35 s	0 hr 11 min 35 s

Broken into 30-min observations including per-observation overheads this results in:

RMS [mJy/beam]:	**59.73**	**4.00**
Required Observing time [sec]:	**785**	**785**
...hours, min, sec:	0 hr 13 min 5 s	0 hr 13 min 5 s

ITCstring: Version=v2.1;ModuleVersion=v0.01;TYPE=Daisy;DEC=30.0;
TAU225=0.065;MODE=M;F450=4.0;F850=4.0;INTT450=695;INTT850=695;
RMS850=4.00;OBS450=785;OBS850=785;

- www.eaobservatory.org/jcmt/instrumentation/continuum/scuba-2/itc/

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TAU225=0.065;MODE=M;F450=4.0;F850=4.0;INTT450=695;INTT850=695;
RMS850=4.00;OBS450=785;OBS850=785;

Total time required:

(38 x 20mins) + (12 x 13mins)
(12hours 40 mins) + (2 hours 36 mins)

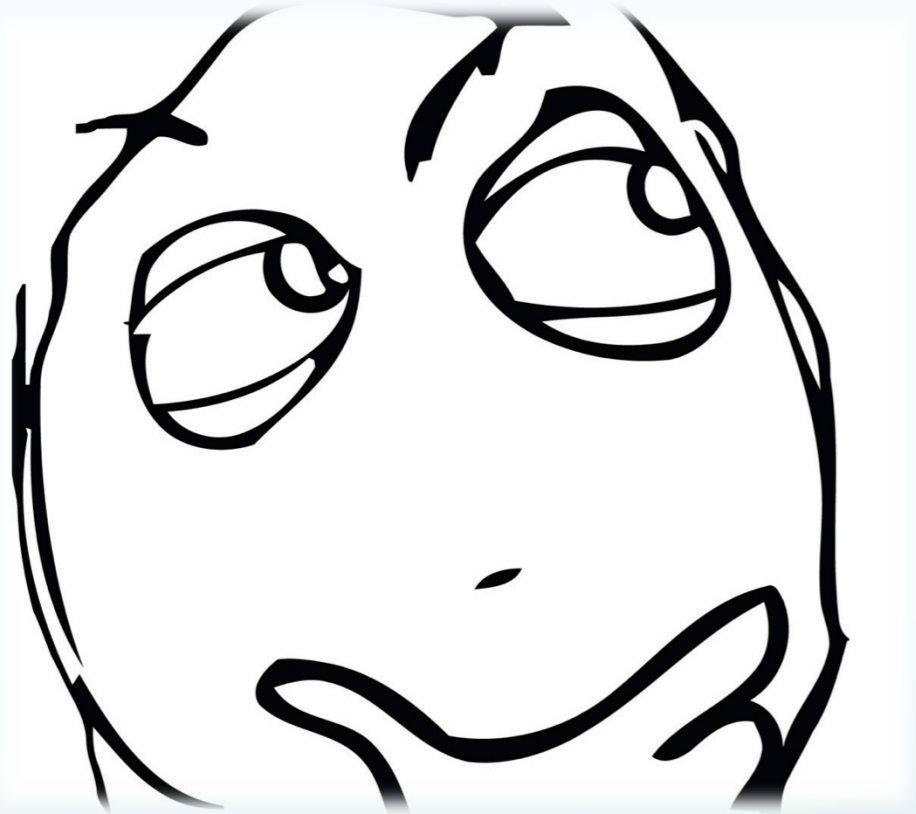
15 hours 16 mins Band 2 time.

- www.eaobservatory.org/jcmt/instrumentation/continuum/scuba-2/itc/

Example 3: HARP

This project aims to map a molecular cloud at a declination of -34° in CO (3-2) using HARP. Out particular intent is to search for and quantify any molecular outflows that are present within the region.

The area we wish to observe is 1900” x 1700”. From existing data we expect the lines to be around 10K, with widths of ~4km/s. We therefore request a sensitivity of 0.6K in 1km/s bins.



- www.eaobservatory.org/jcmt/instrumentation/heterodyne/itc/

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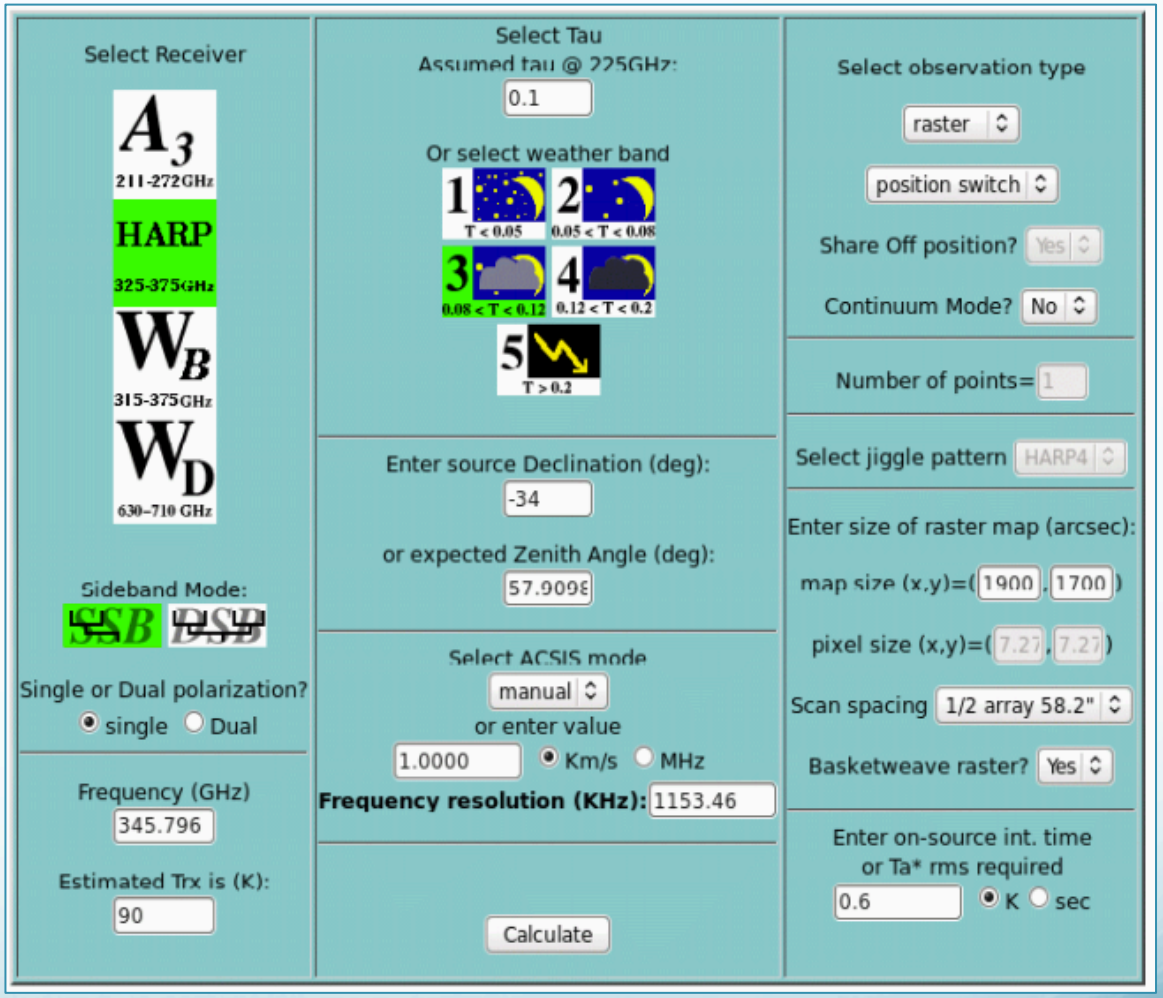

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For a target sensitivity of 0.6000 K Ta* (600.0 mK) the on-source only integration time will be

0.50 seconds per point resulting in a

total duration of 1:28 hrs

per observation,
based on Trx= 90.0 and Tsys= 479.8.

Integration time is:
1h 28m if tau = 0.2 (Band 3)
3h 16 m if tau = 0.15 (band 4)

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For the proposal:

HITEC Parameters:	
Declination	-34°
Area	1900" x 1700"
Transition	CO:J=3-2 (345.796 GHz)
rms	0.6K
Resolution	1km/s
Weather	Band 3 (Tau22 = 0.15)
Observation type	Raster – position switch
	½ array scan spacing
	Basket Weave

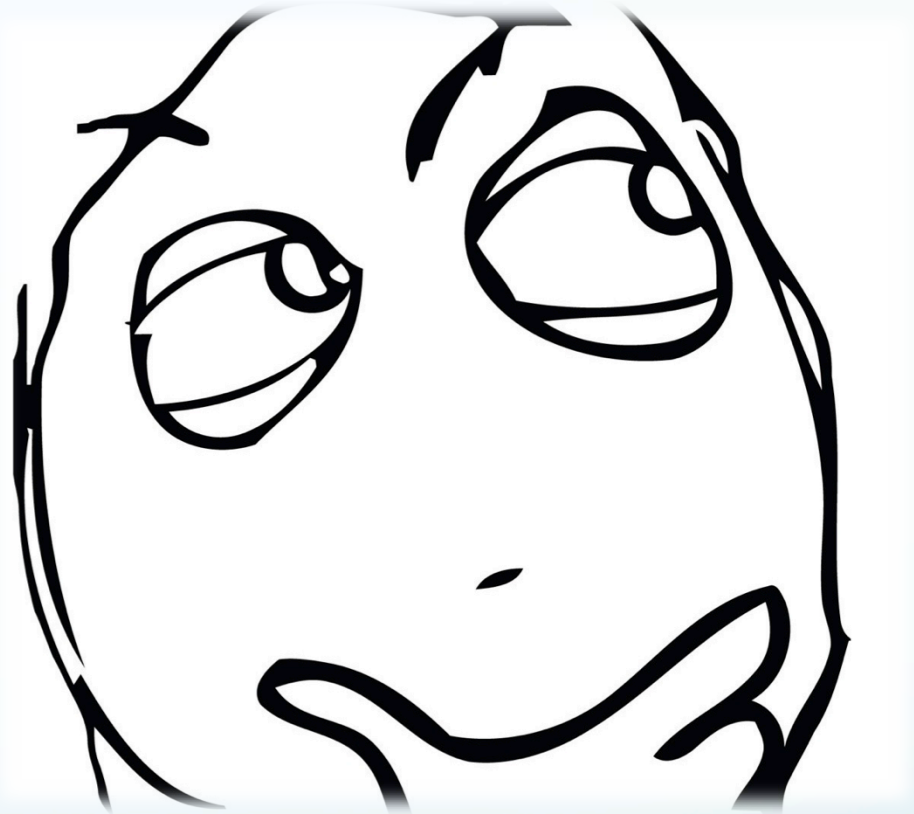
Request 1.5 hours Band 3 time.

- www.eaobservatory.org/jcmt/instrumentation/heterodyne/itc/

Example 4: HARP

I wish to investigate the HCN level in a comet. It is difficult to calculate the exact expected sensitivity but it is around the ~0.5K limit. I will need a rms of 0.05K with a resolution of 0.25km/s.

It will be difficult to predict which weather band the comet will be observed in (it will need to be classically scheduled). As a result of the weather uncertainty I will base my proposal on poor weather – Band 4.



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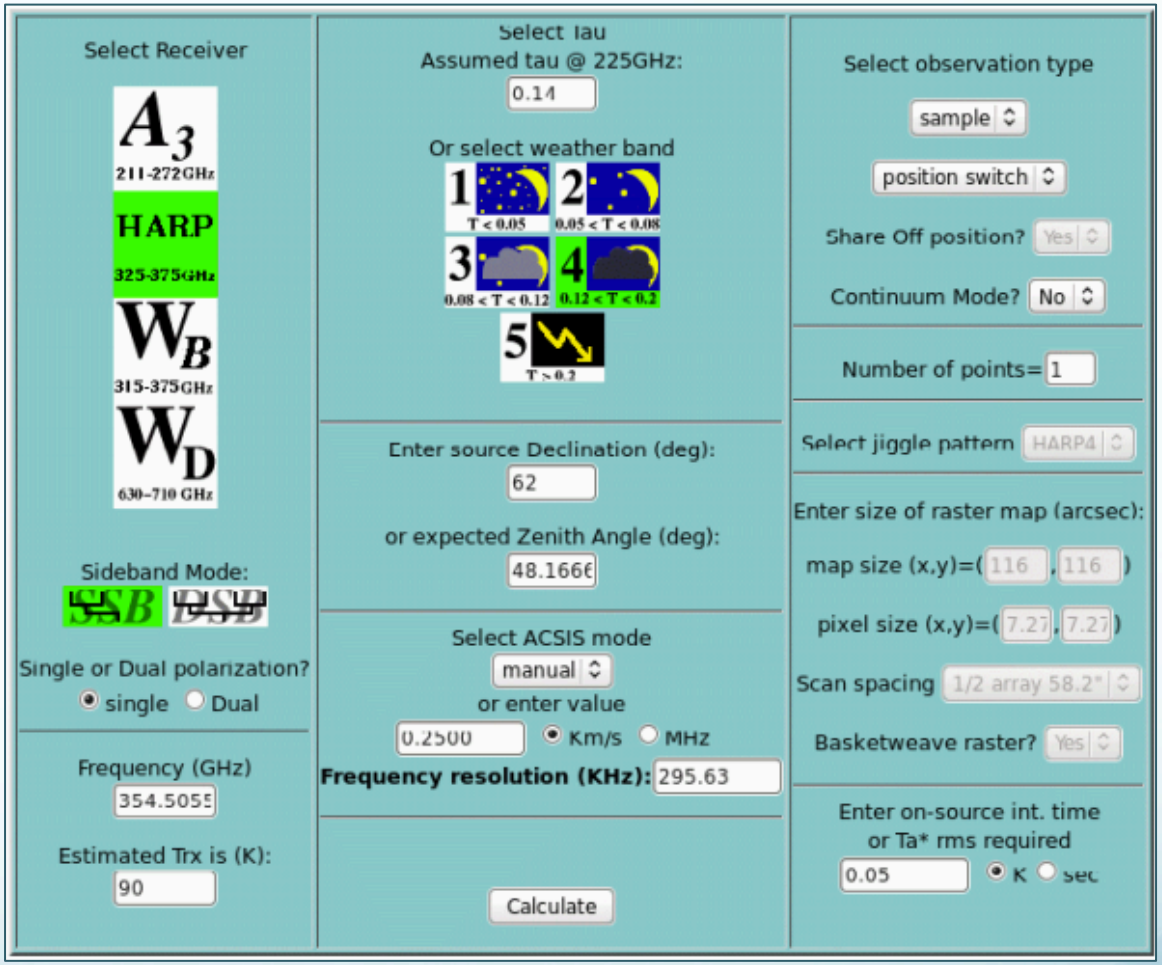

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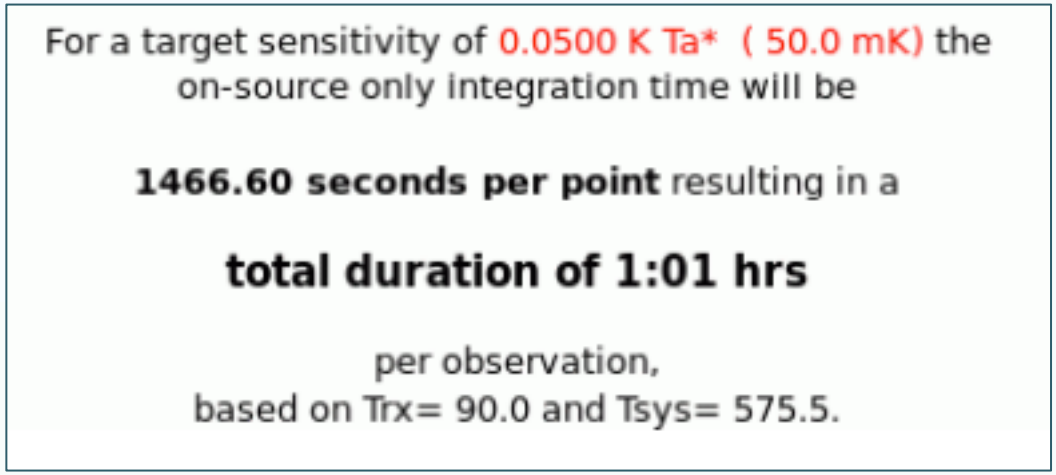

Required integration time is:
1h if tau = 0.14
(the 'good' part of weather band 4)

- www.eaobservatory.org/jcmt/instrumentation/heterodyne/itc/

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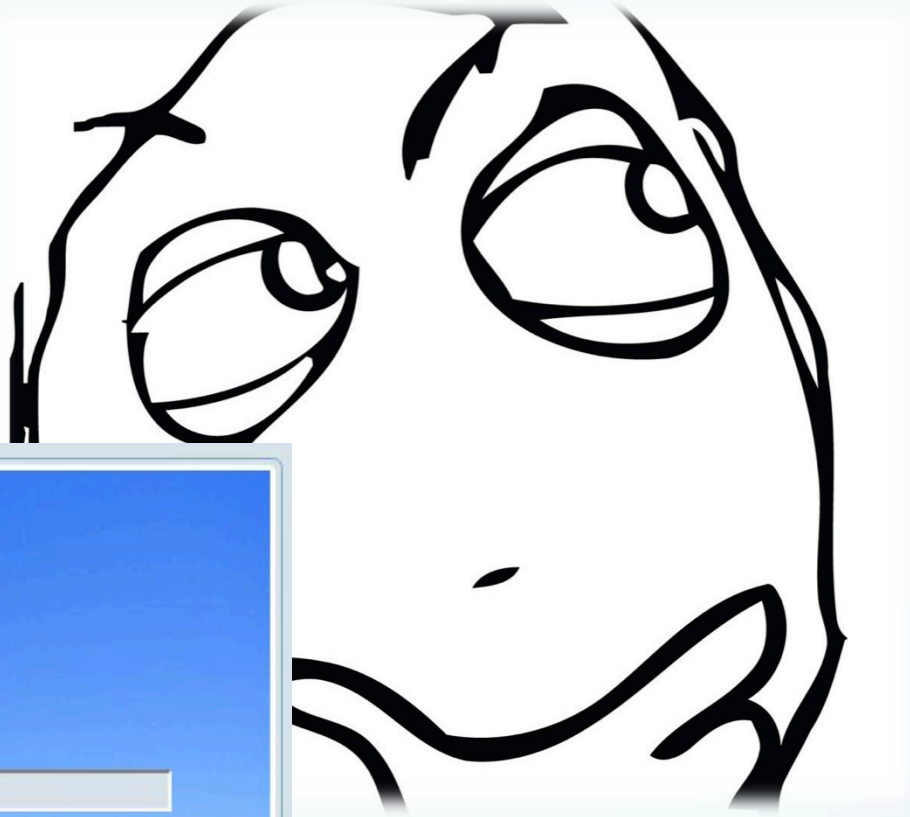
For the proposal:

HITEC Parameters:	
Declination	+62°
Area	n/a
Transition	HCN:J=4-3 (354.51 GHz)
rms	0.05K
Resolution	0.25km/s
Weather	Band 4 (Tau225 = 0.14)
Observation type	Stare

Request 1 hour Band time

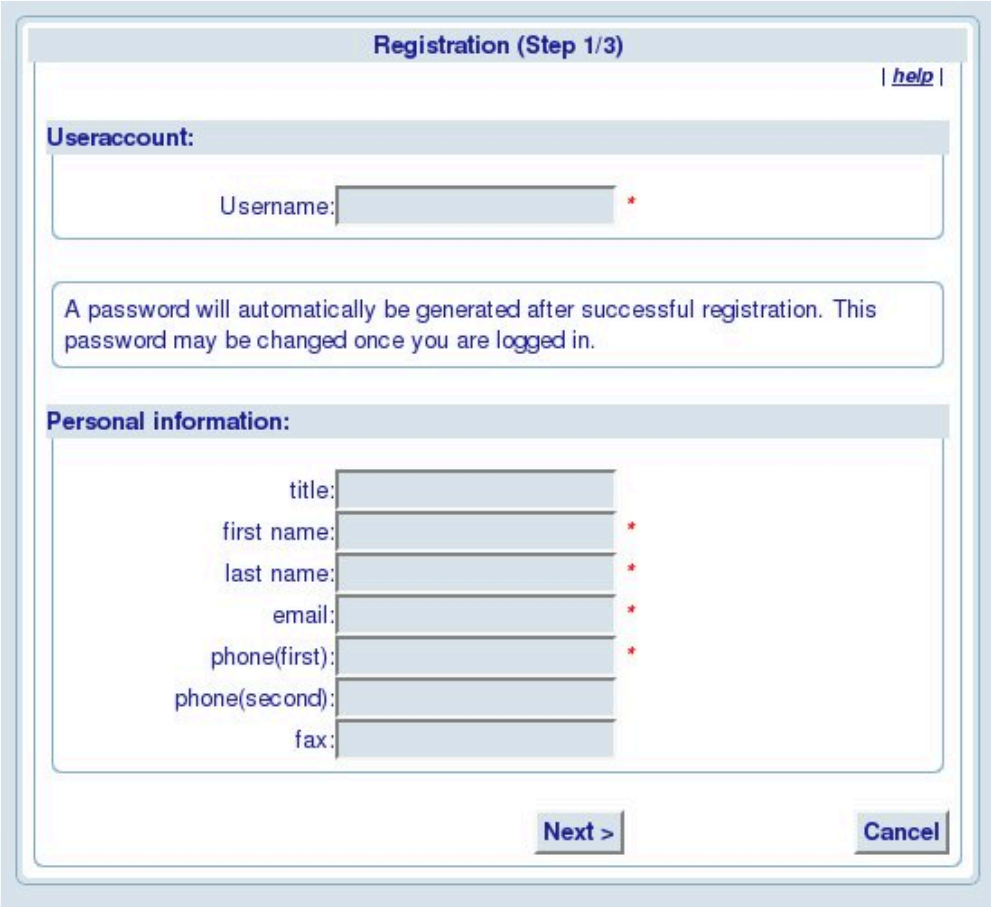
- www.eaobservatory.org/jcmt/instrumentation/heterodyne/itc/

You have your science idea. You know it can be done. Now you must ask for time.



http://www.eaobservatory.org/jcmt/proposals/northstar/

First you will need
a NorthStar account
(unless you have one already)


Registration (Step 1/3)
| help |
Useraccount:
Username:
*
A password will automatically be generated after successful registration. This password may be changed once you are logged in.
Personal information:
title:
first name:
*
last name:
*
email:
*
phone(first):
*
phone(second):
fax:
Next >
Cancel


Registration (Step 2/3)
| help |
Choose:
Add institution from list
Add new institution
Choose from list:
Institution:
-- Choose institution --
*
-- Choose institution --
EAO
Cancel

Confirmation (Step 3/3)

| help |

Personal information:

username: **hparsons**
title: **Dr**
firstname: **Harriet**
lastname: **Parsons**
email: **h.parsons@jach.hawaii.edu**
phone(first): **808**
phone(second):
fax:

Institution:

institute: **EAO**
department:
address: **660 N Aohoku Place**

city: **Hilo**
state: **Hawaii**
country: **USA**
zipcode: **96720**
Website: **http://www.eaobservatory.org/**

Position: **Support Astronomer**
Remarks:

If all data is correct, press on the "Register" button to finish registration.
A generated **password** and **public key** will be sent to **h.parsons@jach.hawaii.edu**.

< Back | Register | Cancel


Welcome to NorthStar at JCMT
Username:
Password:
Log in
The Northstar application has been developed at ASTRON as part of the EC-funded RadioNet project.
Register as new user
Password forgotten?
Send Questions/Problems
Help

Proposal List

My Account | Help Index | Send Questions/Problems | Logout

This version of NorthStar is offered exclusively for applicants eligible to submit proposals to the Dutch, UK, Canadian, and International queues for the JCMT.

For UK, Canadian, International proposals on JCMT more information can be found on the ***JCMT Website***.

NEWS:

08 Aug 2008:

- Northstar hosted for the first time at JCMT

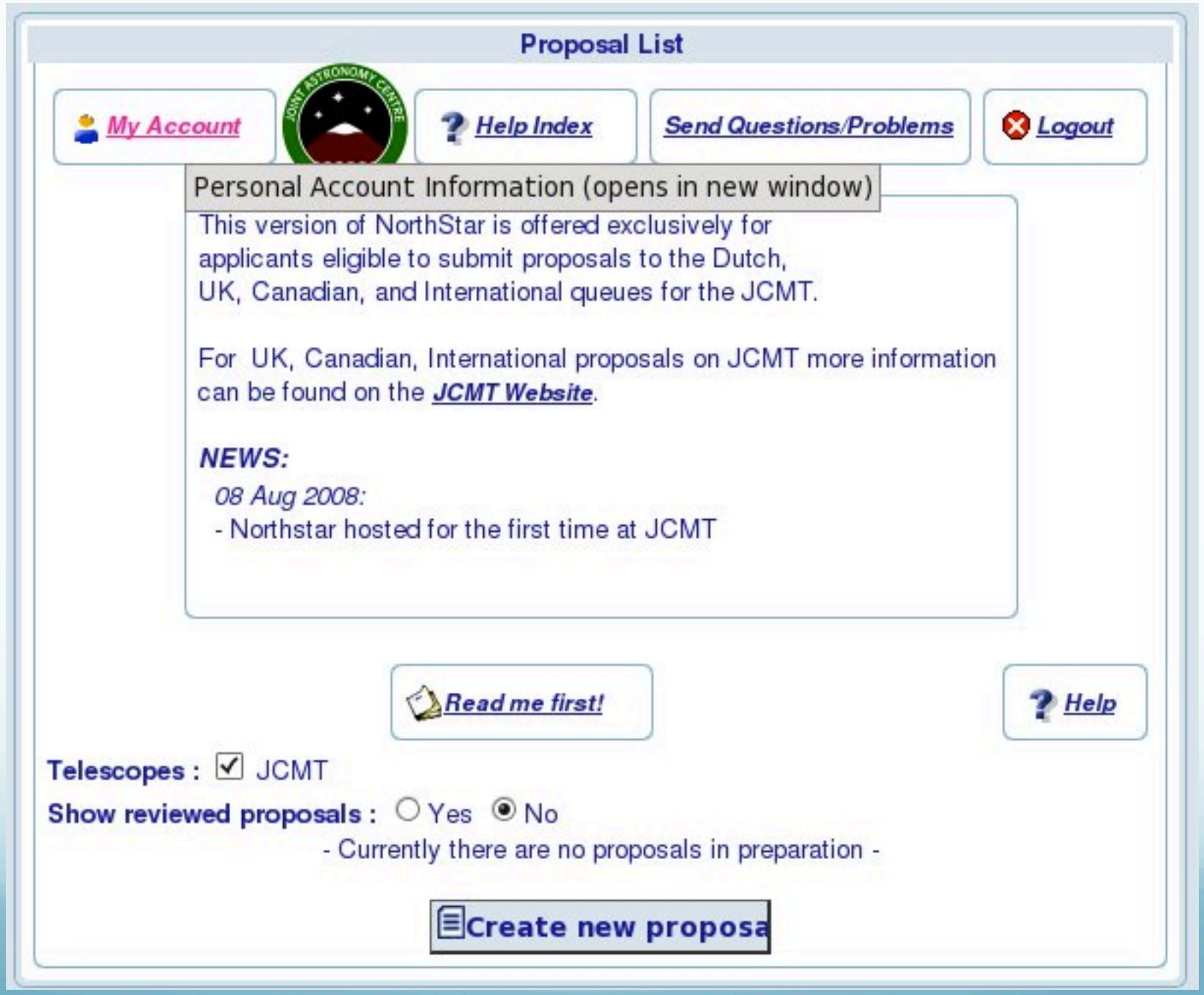
Read me first! | Help

Telescopes : ☑ JCMT

Show reviewed proposals : ○ Yes ◉ No

- Currently there are no proposals in preparation -

Create new proposa


Proposal List
My Account
Help Index
Send Questions/Problems
Logout
Personal Account Information (opens in new window)
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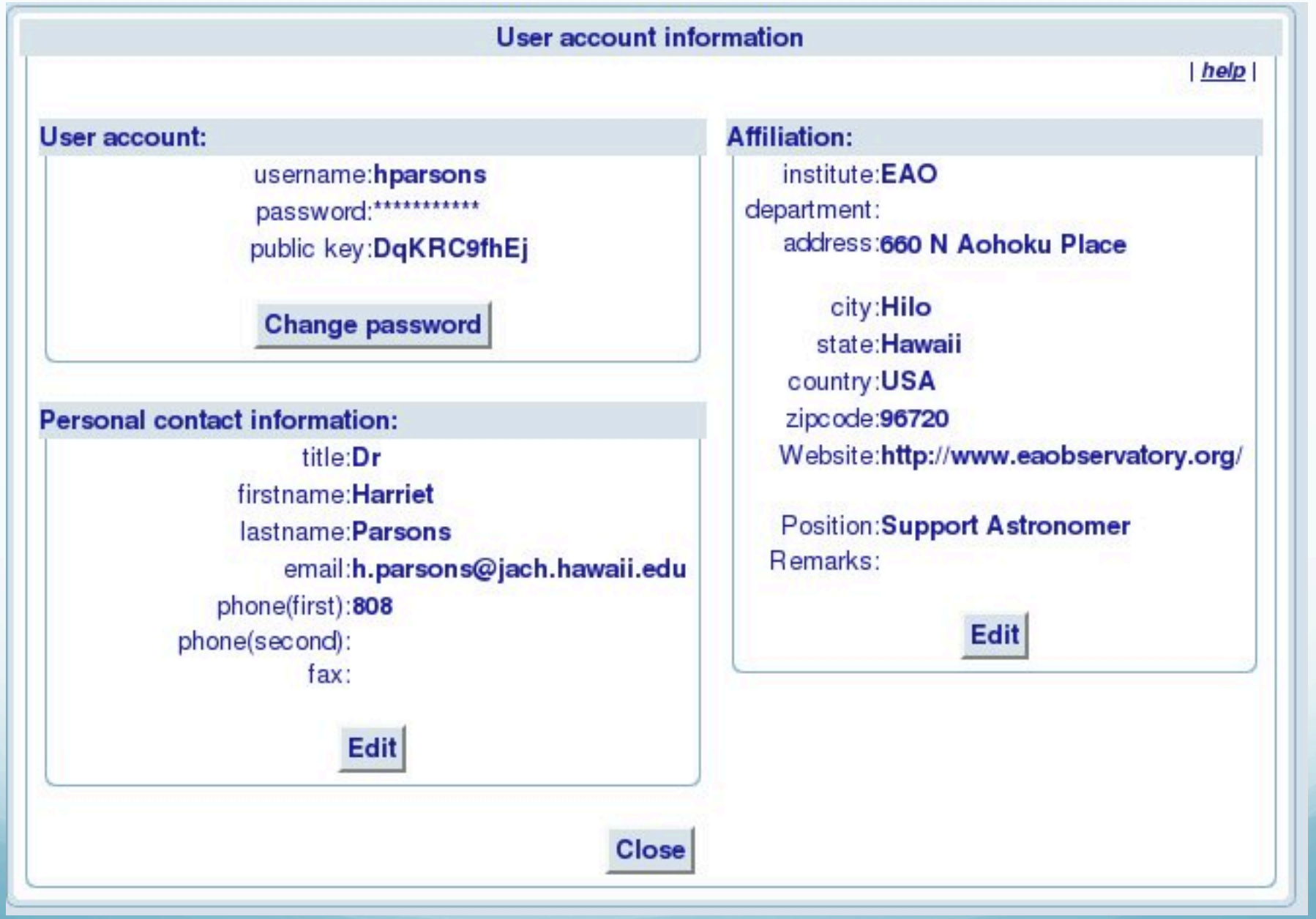
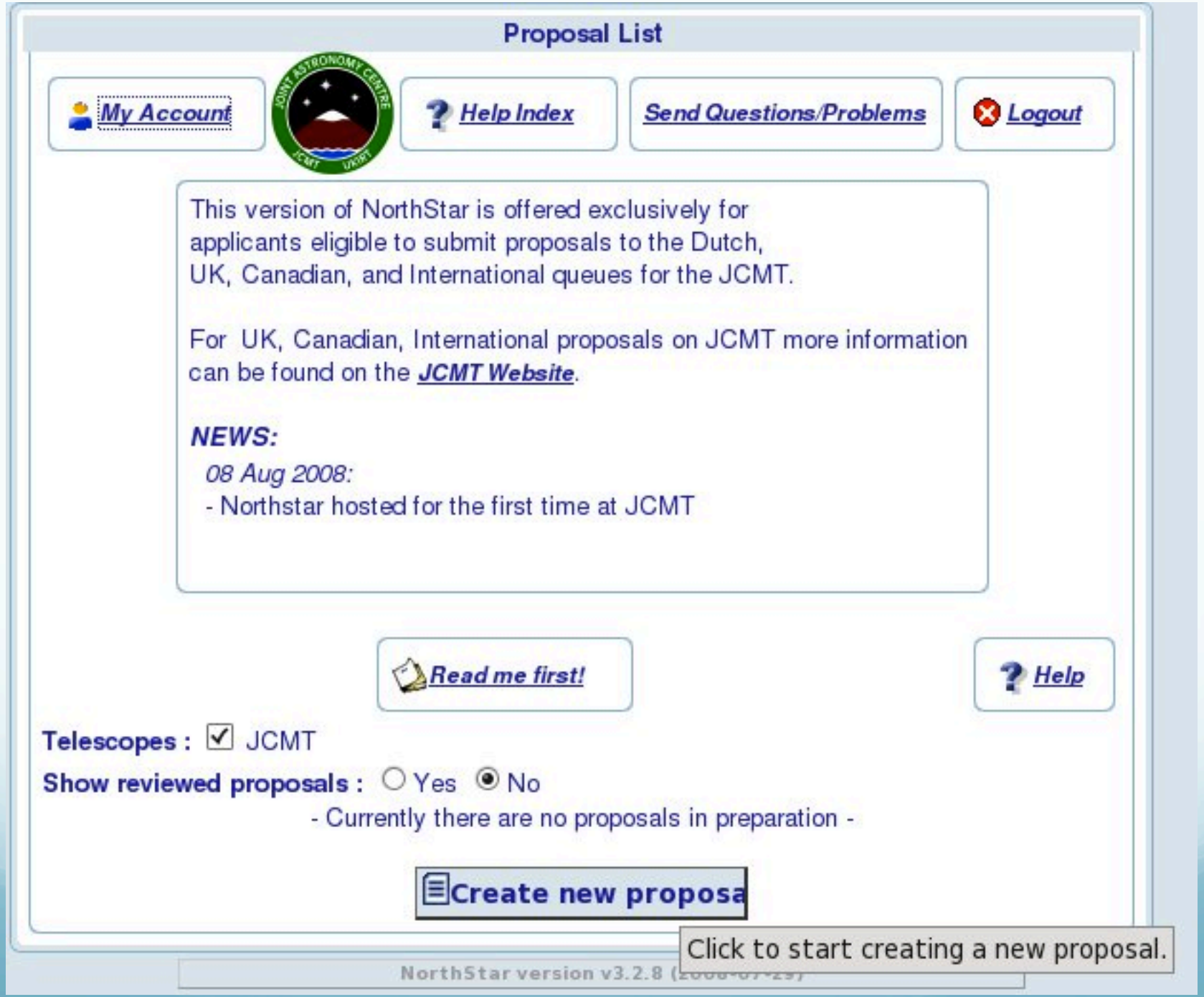
For UK, Canadian, International proposals on JCMT more information can be found on the JCMT Website.
NEWS:
08 Aug 2008:
- Northstar hosted for the first time at JCMT
Read me first!
Help
Telescopes : JCMT
Show reviewed proposals : Yes No
- Currently there are no proposals in preparation -
Create new proposa


User account information
| help |
User account:
username:hparsons
password:**********
public key:DqKRC9fhEj
Change password
Personal contact information:
title:Dr
firstname:Harriet
lastname:Parsons
email:h.parsons@jach.hawaii.edu
phone(first):808
phone(second):
fax:
Edit
Affiliation:
institute:EAO
department:
address:660 N Aohoku Place
city:Hilo
state:Hawaii
country:USA
zipcode:96720
Website:http://www.eaobservatory.org/
Position:Support Astronomer
Remarks:
Edit
Close


Proposal List
My Account
Help Index
Send Questions/Problems
Logout
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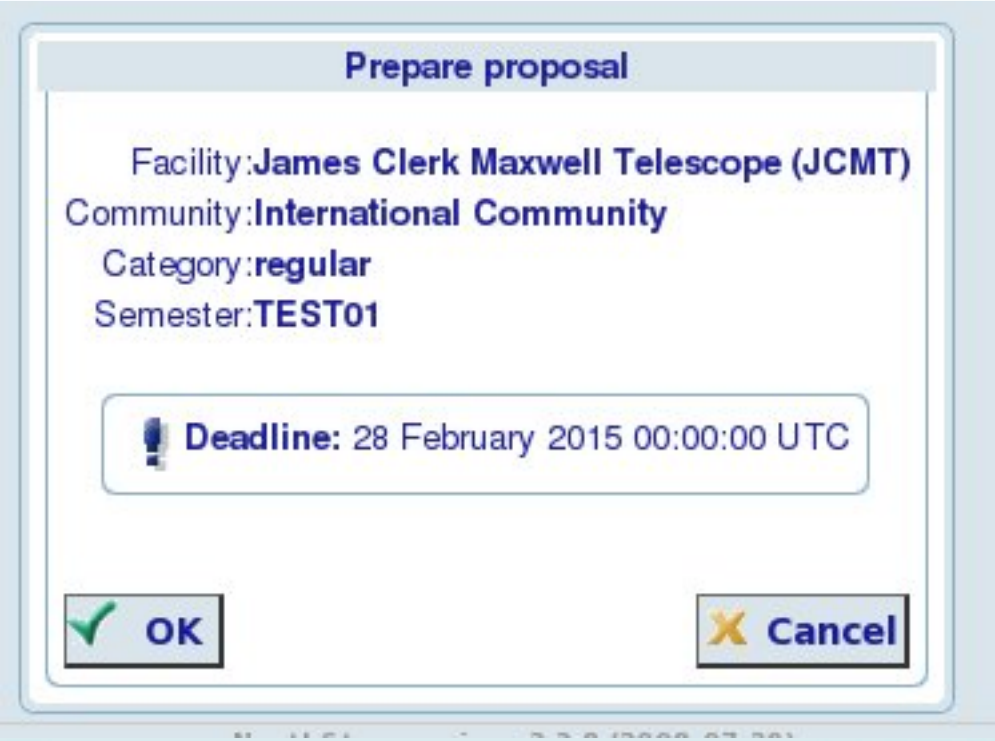
NEWS:
08 Aug 2008:
- Northstar hosted for the first time at JCMT
Read me first!
Help
Telescopes : JCMT
Show reviewed proposals : Yes No
- Currently there are no proposals in preparation -
Create new proposa
Click to start creating a new proposal.
NorthStar version v3.2.8

Please not this is a 'test' semester. If you have a real proposal you may upload it here for a trial but please save your own copy offline.



JCMT Proposal

Help Index

Community: **International Community**
Category: **regular**
Semester: **TEST01**

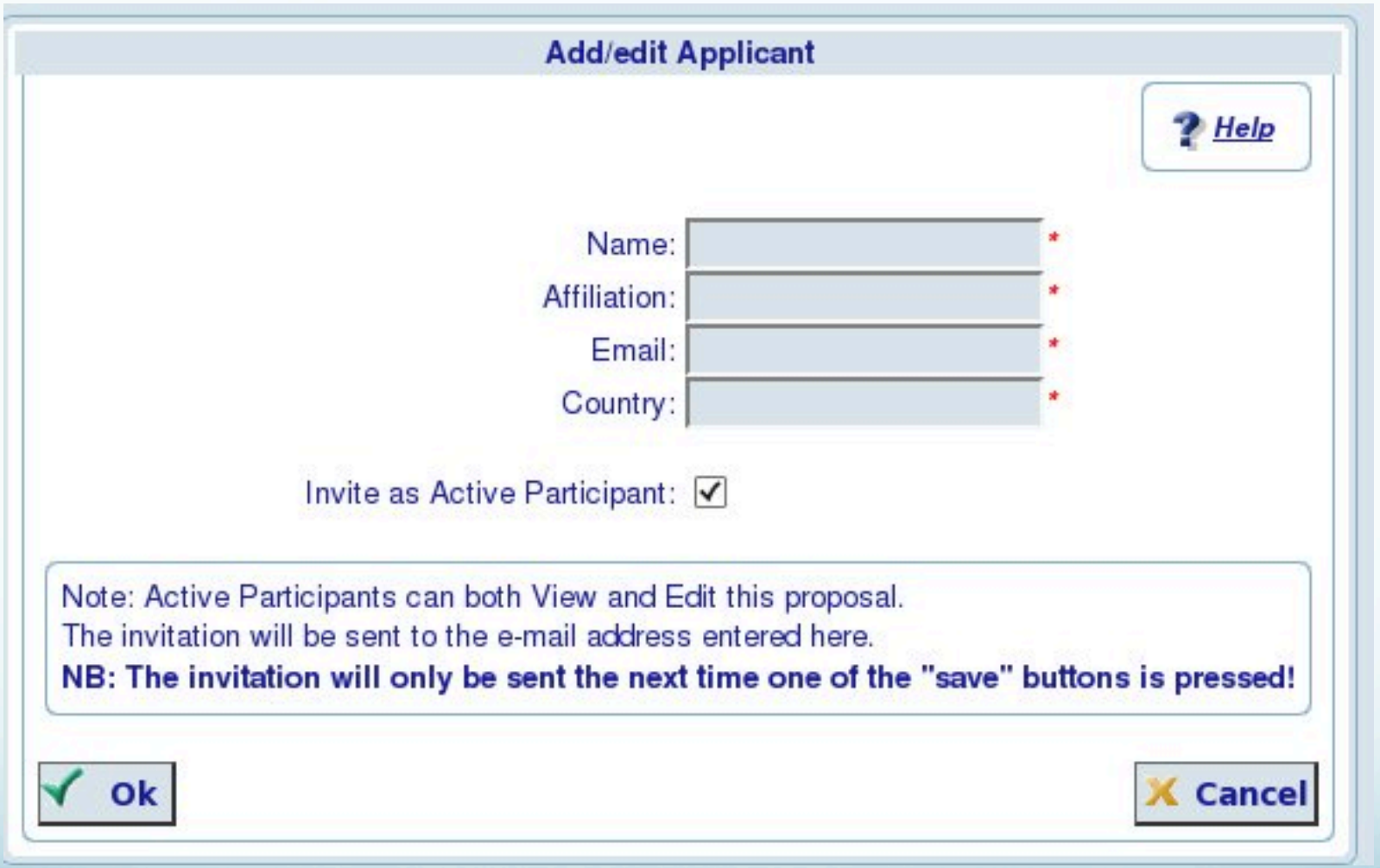
Applicants | Justification | Observing Request | Additional issues

Help

Active Participant	Contact Author	PI	Name	Affiliation	Country	Email	Potential Observer
yes	◉	◉	Dr Harriet Parsons	EAO	USA	h.parsons@jach.hawaii.edu	☐

Add applicant

Save and Continue | Save and Preview | Save and Exit | Save and Submit | Quit without saving


Add/edit Applicant
Help
Name:
Affiliation:
Email:
Country:
Invite as Active Participant:
Note: Active Participants can both View and Edit this proposal.
The invitation will be sent to the e-mail address entered here.
NB: The invitation will only be sent the next time one of the "save" buttons is pressed!
Ok
Cancel

JCMT Proposal

Help Index

Community: **International Community**
Category: **regular**
Semester: **TEST01**

Applicants | Justification | Observing Request | Additional issues

Help

Title (Max characters: 150) : (Characters entered: 0)*

Abstract (Max words: 100) : (Words entered: 0)*

Justification File(s): Instructions for preparation

First Justification File (mandatory) : None uploaded * Upload
Uploaded :

Second Justification File (optional) : None uploaded Upload
Uploaded :

Figure(s) File (optional) : None uploaded Upload
Uploaded :

Save and Continue | Save and Preview | Save and Exit | Save and Submit | Quit without saving

JCMT Proposal

Help Index

Community: International Community
Category: regular
Semester: TEST01

Applicants | Justification | Observing Request | Additional issues

Help

You must specify targets/observation setup here.

Specify a new target/observation | Upload target list

Requested time per weather grade (hours) : *

New in Semester 10B:
Calibrations will no longer be charged to science projects.
Your requested times should not include them.
For exceptions and further info. see Call for Proposals
http://www.jach.hawaii.edu/JCMT/observing/calls/

total time specified for targets in list: 0 hours

1) Very dry: 2) Dry: 3) Medium: 4) Wet: 5) Very Wet:

Indicate time per receiver (hours) : *

A-Band: B-Band RxW: B-Band HARP: D-Band: SCUBA-2: OTHER:

Ancillary instrumentation : ☐ SCUBA-2 polarimeter ☐ SCUBA-2 FTS

Flexible scheduling? : ◉ Yes ○ No

overall scheduling requirements :

overall scheduling preferences :

Save and Continue | Save and Preview | Save and Exit | Save and Submit | Quit without saving

JCMT Proposal

Help Index

Community: **International Community**
Category: **regular**
Semester: **TEST01**

Applicants | Justification | Observing Request | Additional issues

Help

Information about all Students involved :

Add New Student

Are there linked proposals submitted to this TAC? : ○ Yes ◉ No

Are there linked proposals submitted to other TACs? : ○ Yes ◉ No

Are there relevant previous allocations? : ○ Yes ◉ No

Additional Remarks :

Save and Continue | Save and Preview | Save and Exit | Save and Submit | Quit without saving

JCMT Proposal

Parsons

No code

EMPTY

Abstract

EMPTY

Requested time per weather grade (hours)

Very dry	Dry	Medium	Wet	Very wet
NOT SPECIFIED	NOT SPECIFIED	NOT SPECIFIED	NOT SPECIFIED	NOT SPECIFIED

Requested time per receiver (hours)

A-Band	B-Band RxW	B-Band HARP	D-Band	SCUBA-2	OTHER
NOT SPECIFIED	NOT SPECIFIED	NOT SPECIFIED	NOT SPECIFIED	NOT SPECIFIED	NOT SPECIFIED

Parsons

EMPTY

No code

Applicants

Name	Affiliation	Email	Country		Potential observer
Dr Harriet Parsons	EAO	h.parsons@jach.hawaii.edu	USA	Pi	

Contact Author

Title	Dr	***Institute***	EAO
Name	Harriet Parsons	***Department***	
Email	h.parsons@jach.hawaii.edu	***Address***	660 N Aohoku Place
Phone(first)	808	***Zipcode***	96720
Phone(second)		***City***	Hilo
Fax		***State***	Hawaii
		Country	USA

Summary of observations

No details given

Flexible scheduling: Yes

No overall scheduling requirements

No overall scheduling preferences

No PhD Students involved

Linked proposal submitted to this TAC: No

Linked proposal submitted to other TACs: No

Relevant previous Allocations: No

No additional remarks

Parsons EMPTY No code

No Scientific Justification File uploaded

JCMT Proposal

Help Index

Community: **International Community**
Category: **regular**
Semester: **TEST01**

Applicants | Justification | Observing Request | Additional issues

Help

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Uploaded :

Second Justification File (optional) : None uploaded Upload
Uploaded :

Figure(s) File (optional) : None uploaded Upload
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Read me first! | Help

Telescopes : ☑ JCMT

Show reviewed proposals : ○ Yes ◉ No

Proj_ID	PI	Title	Community	Category	Status	Options
James Clerk Maxwell Telescope (JCMT) Proposals						
	Parsons		International Community	regular	in preparation	Edit Copy Delete Submit View

Create new proposa

Make it easy on the TAC and give them as much information as possible – always include the ITC or HITEC numbers you specifically used!