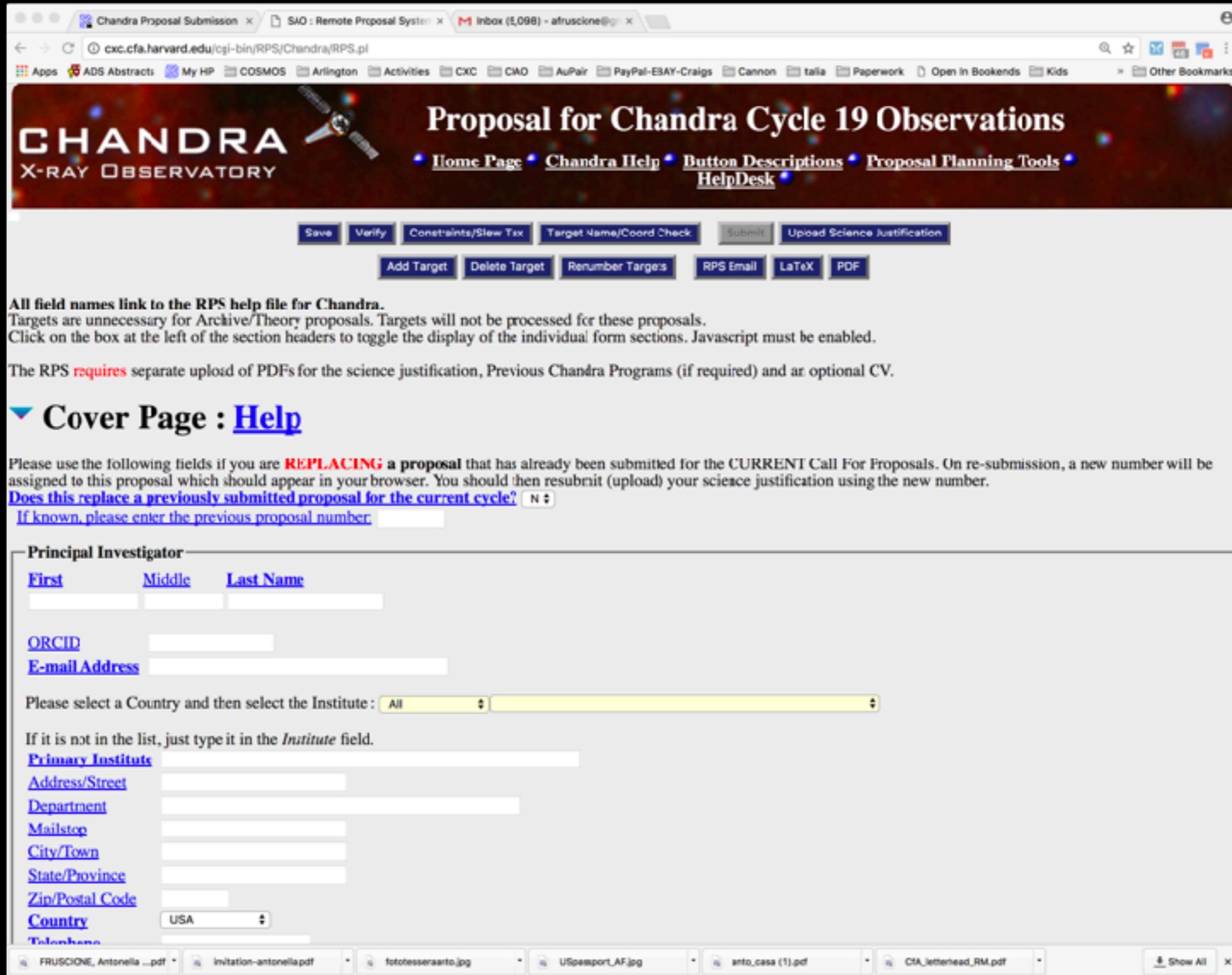


Chandra Proposal Submission System

(R.I.P. RPS)

Current RPS (ca. 1995 with a lot of revisions)



The screenshot shows a web browser window with the URL `cxc.cfa.harvard.edu/cgi-bin/RPS/Chandra/RPS.pl`. The page header features the CHANDRA X-RAY OBSERVATORY logo and the title "Proposal for Chandra Cycle 19 Observations". Navigation links include Home Page, Chandra Help, Button Descriptions, Proposal Planning Tools, and HelpDesk. A toolbar contains buttons for Save, Verify, Constraints/Slew Tax, Target Name/Coord Check, Submit, Upload Science Justification, Add Target, Delete Target, Renumber Targets, RPS Email, LaTeX, and PDF.

All field names link to the RPS help file for Chandra. Targets are unnecessary for Archive/Theory proposals. Targets will not be processed for these proposals. Click on the box at the left of the section headers to toggle the display of the individual form sections. Javascript must be enabled.

The RPS **requires** separate upload of PDFs for the science justification, Previous Chandra Programs (if required) and an optional CV.

▼ **Cover Page : [Help](#)**

Please use the following fields if you are **REPLACING** a proposal that has already been submitted for the CURRENT Call For Proposals. On re-submission, a new number will be assigned to this proposal which should appear in your browser. You should then resubmit (upload) your science justification using the new number.

[Does this replace a previously submitted proposal for the current cycle?](#) N Y

If known, please enter the previous proposal number:

Principal Investigator

[First](#) [Middle](#) [Last Name](#)

[ORCID](#)

[E-mailAddress](#)

Please select a Country and then select the Institute:

If it is not in the list, just type it in the *Institute* field.

[Primary Institute](#)

[Address/Street](#)

[Department](#)

[Mailstop](#)

[City/Town](#)

[State/Province](#)

[Zip/Postal Code](#)

[Country](#)

[Telephone](#)

The browser's taskbar at the bottom shows several open PDF files: FRUSCIONE, Antonella ...pdf, Invitation-antonellapdf, fototesseraanto.jpg, USpassport_AF.jpg, anto_casa (1).pdf, and CMA_letterhead_RM.pdf.

Astronomical Data Analysis Software and Systems IV
ASP Conference Series, Vol. 77, 1995
R. A. Shaw, H. E. Payne, and J. J. E. Hayes, eds.

Design of a Remote Proposal Submission System

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Abstract. Many astrophysics and astronomy tools have been developed utilizing NCSA Mosaic and the World Wide Web (WWW). Several tools have been developed at the High Energy Astrophysics Science Archive Research Center (HEASARC) at NASA's Goddard Space Flight Center, including a Remote Proposal Submission¹ (RPS) system for NASA satellite missions. The RPS provides facilities for submitting Observation Request forms. It is an automated service, designed to support several missions. Currently only the *XTE* mission is supported. Other projects that will be supported in the future include *ASCA*, *GRO*, and *ROSAT*.

In spite of the sometimes severe disadvantages, we believe the WWW is a very effective platform for rapid information systems development in astronomy and astrophysics. The WWW provides a substantial pre-existing infrastructure sup-

MAIN RPS ADVANTAGES:

Has been and still is used by many missions

Well known by the “experienced” X-ray community

WHY CHANGE IT?

MAIN DISADVANTAGES WITH OUR VERSION OF RPS

- Cannot see what has been submitted (we receive lots of emails after submission ... “have you received my proposal?” “what have you received?”)
- Not easy to resubmit before the deadline after the first submission (lots of work on our side matching first submission with resubmissions)
- A lot of information presented in linear fashion: very easy to miss required fields
- Not flexible for dynamic changes (for example number of co-Is, number of monitor observations)
- Some mistakes would lead to strings of problems (e.g typo in email address of PI)
- Not possible to resubmit from one cycle to the next
- Cumbersome set of actions (e.g. download the html, reload the html). Easy if you are used to it, but not easy for new users or users who propose rarely
- Very old look and feel

Why NOW

10+ more years of mission. If not now when?

Also

- address modern security concerns
- better maintainability into the future
- less convoluted operations (less errors, less staff)

TOP PRIORITIES

Phase 1 (cycle 20)

- Preserve Existing RPS functionality
- Make RPS a user-friendly web form
- Keep the same proposal number on resubmission
- People need to be able to determine what they have submitted on their own without submitting helpdesk tickets
- Make it easy to submit large target lists online
- Preserve 'clean' coI information - allow proposers to search for individuals
- Easily reuse forms between years
- Share common files between proposals (CV, previous experience)

Phase 2 (cycle 21+)

All the requirements that would not be feasible/realistic for Phase 1 given time and resources

For example:

Real Time conflict checking

Real Time validation of fields

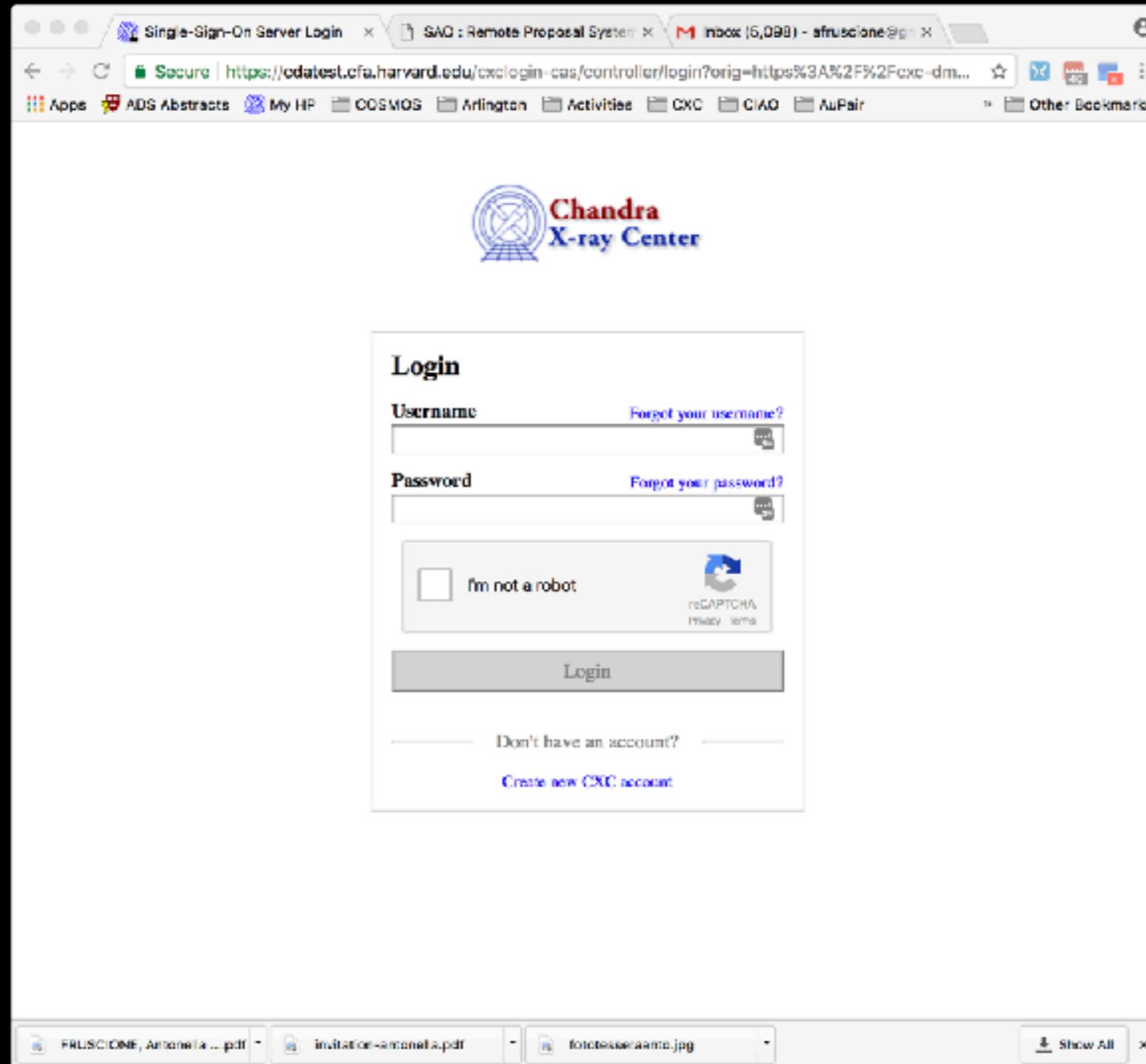
Assist in generation of Previous Chandra

Validate page length

And many others

New CXC Login Page

Built for CPS and planned for other CXC applications



Chandra X-ray Center

Chandra Proposal Submission
There are **172** days left until the Mar 15, 2018 6PM EDT deadline.

Welcome antotest [Edit Profile](#) [HelpDesk](#)
[Logout](#)

Proposal	Type	Status	Submitted	PI	Subject Category	Title	Joint
20100005	GO	Incomplete		Drake	SOLAR SYSTEM	fcisfdasfidsafdsa	None
20100006	GO	Incomplete		Drake	SOLAR SYSTEM	fcifdsa	None
20100008	LP	Incomplete		Drake	SOLAR SYSTEM	hgfhfgd	None
20100011	TOO	Incomplete		Drake	SOLAR SYSTEM	My TOO	None
20100020	GO	Incomplete		Drake	SOLAR SYSTEM	fcifdsa	None
20400024	GO	Incomplete		Drake	BH AND NS BINARIES		None
20610003	GO	Proposed	15-Sep-2017 16:	Drake	NORMAL GALAXIES: DIFFUSE I	This is my wonderful proposal	None

New Proposal

Clone Proposal?:

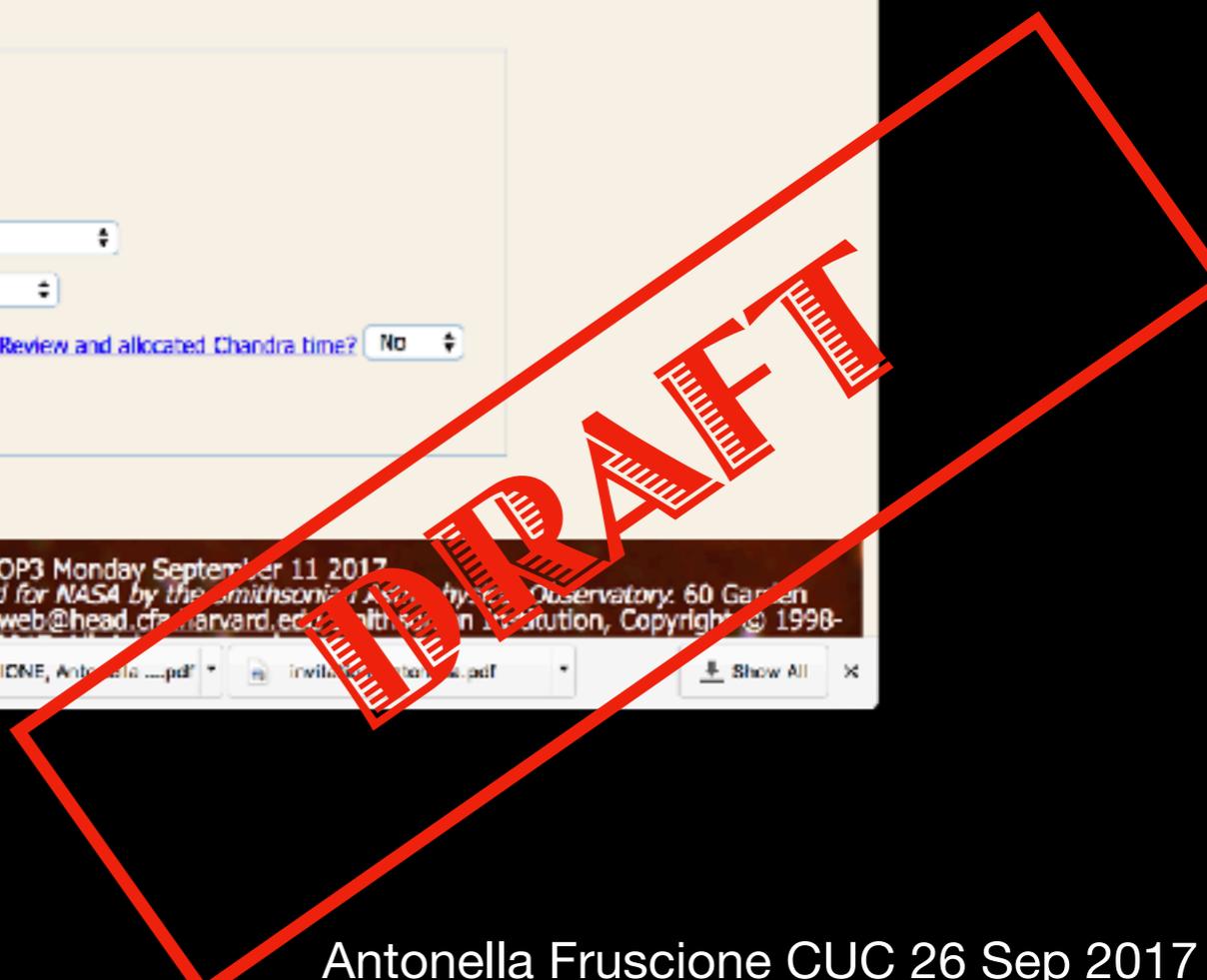
Who are you? *

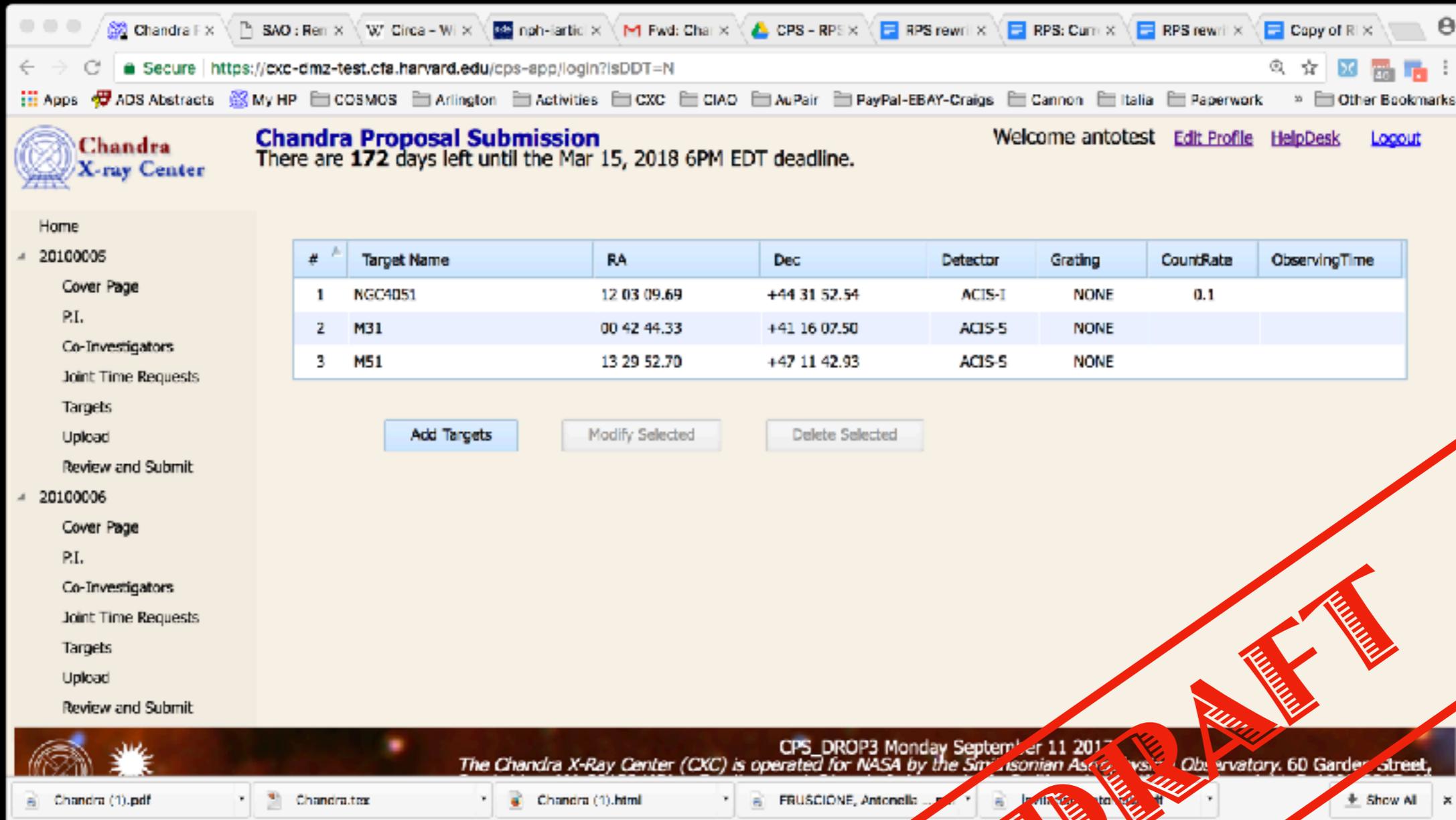
Subject Category: *

Proposal Type: *

Has this proposal already been approved by the HST, NRAO or XMM Review and allocated Chandra time?

CPS DROP3 Monday September 11 2017
 The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, MA 02138 USA. Email: cxcweb@head.harvard.edu





Chandra X-ray Center

Chandra Proposal Submission

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There are **172** days left until the Mar 15, 2018 6PM EDT deadline.

#	Target Name	RA	Dec	Detector	Grating	CountRate	ObservingTime
1	NGC4051	12 03 09.69	+44 31 52.54	ACIS-I	NONE	0.1	
2	M31	00 42 44.33	+41 16 07.50	ACIS-S	NONE		
3	M51	13 29 52.70	+47 11 42.93	ACIS-S	NONE		

[Add Targets](#)
[Modify Selected](#)
[Delete Selected](#)

CPS_DROP3 Monday September 11 2017
 The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian Astrophysical Observatory, 60 Garden Street,

Chandra X-ray Center

Chandra Proposal Submission

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There are **172** days left until the Mar 15, 2018 6PM EDT deadline.

Switch to Target: #1: NGC4051 **Proposal 20100008**

Target Pointing	Observing Time	Instrument	ACIS (req)	ACIS (opt)	Constraints	TOO details	Remarks
-----------------	----------------	------------	------------	------------	-------------	-------------	---------

Target 1

Target Name:

Solar System Object:

Is Target Position known and fixed? Yes No

RA: hh mm ss.s or ddd.dddd

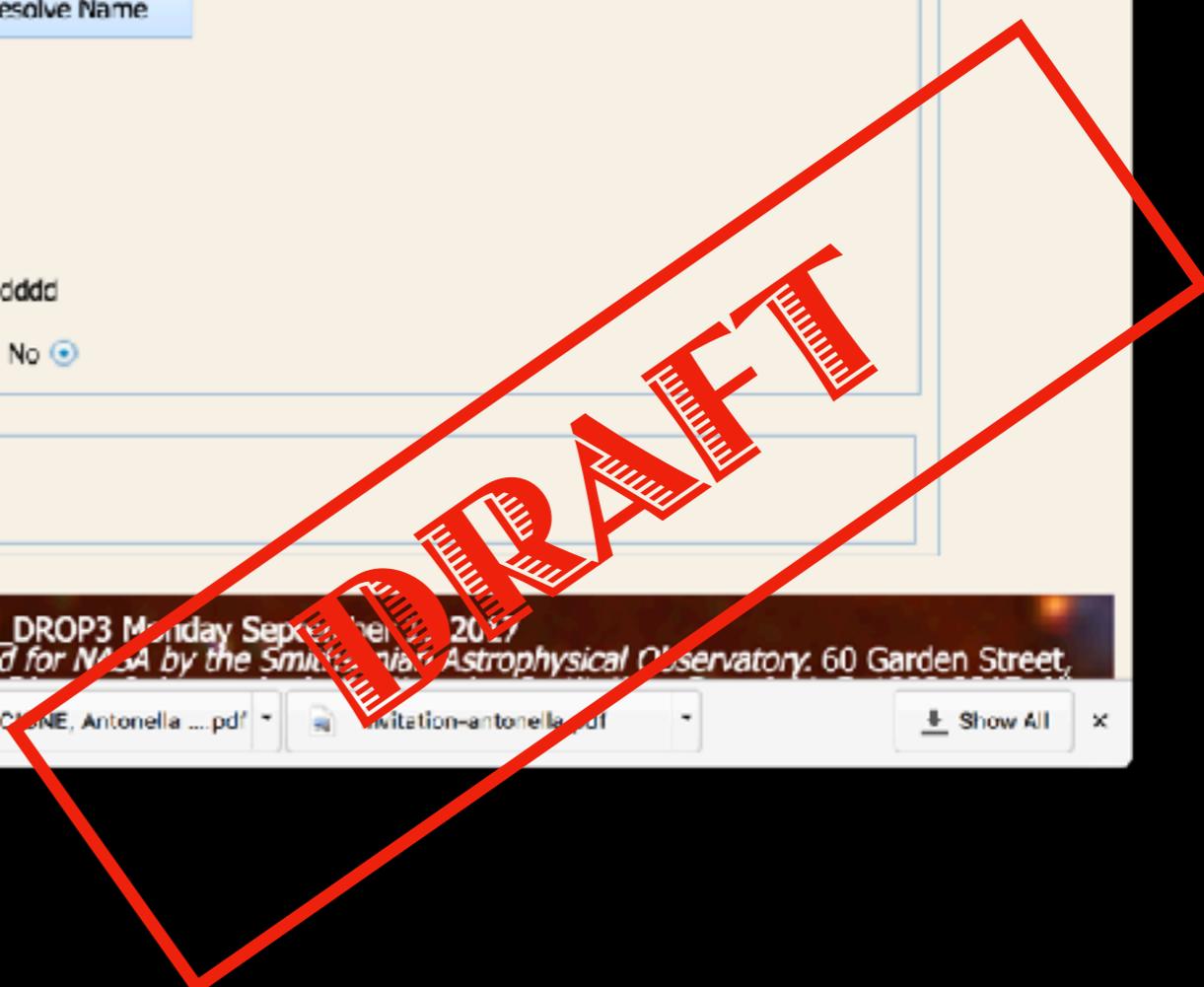
Dec: +/- dd mm ss.s or +/- dd.dddd

Do you want optical monitor data for your target? Yes No

Offsets: Use Defaults Specify

CPS_DROP3 Monday September 26, 2017
The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian Astrophysical Observatory, 60 Garden Street,

Chandra (1).pdf | Chandra.tex | Chandra (1).html | FRUSCIONE, Antonella ...pdf | Invitation-antonella.pdf | Show All



Chandra X-ray Center

Chandra Proposal Submission

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There are **172** days left until the Mar 15, 2018 6PM EDT deadline.

20610003: Review

Type: Status: Total Time: Number of Targets:

View: Validation Results Slew Tax/Constraints Simbad/Ned Results Chandra Conflicts

Submit

[Would the P.I. be willing to participate in an upcoming Chandra peer review?](#) Yes No Maybe

[I have reviewed my application and believe it to be ready for submission.](#)

CPS DROP Monday September 25, 2017
The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian Astrophysical Observatory, 60 Garden Street,

Chandra (1).pdf Chandra.tex Chandra (1).html FRUSCIONE, Antonella ...pdf invitation-antonella ...pdf Show All



Current Status of the project

- Started development in January 2017
- Two internal software releases in May and June (Drop 1 and 2) with rapid CDO testing and feedback
- First complete and useable internal release on September 15 (Drop 3A). Again rapid testing and feedback
- Next internal release planned for ~October 3 (Drop 3B)
- Full testing starts (within CXC and with outside beta testers) including testing of the server load

Plan A

- Public release on Dec 15 with the Call for Proposals for Cycle 20
- Widely announce CPS to the community
- Invite people to sign up for an account as soon as possible before the March deadline (and possibly have all the old cycles proposals loaded in the system)

Plan B

- Push the release of CPS to Cycle 21 and keep the current RPS for this cycle
- Decision will be made ~November.
- Current (old) RPS is ready to go for cycle 20

(Plan C)

(Release on Dec 15 and revert to RPS if *major* problems are found)
... Would like to avoid for obvious reasons