

CAMBIO DE MASCARAS EN CARRUSEL GOODMAN

ROTADOR NASMYTH OPTICO EN ANGULO CERO

ELECTRONICA GOODMAN ON

Environmental Control System Ver 4.1.1

Status Messages: 12:05:32 PM - DAYTASK: AHU off because of warm glycol

SCHEDULER ON

Day Control: Day Control ON, Day Control OFF

Temp Source: MEAN

Specific Temp Sensor: cul chiller tin

Weather Station: Humidity 13.90, Humidity 2 13.10, Outside Temp 16.90, Pressure 746.30, Wind Direction 204.80, Wind Speed 3.53, Radiation 749.00

Remote Power Control Ver 1.0

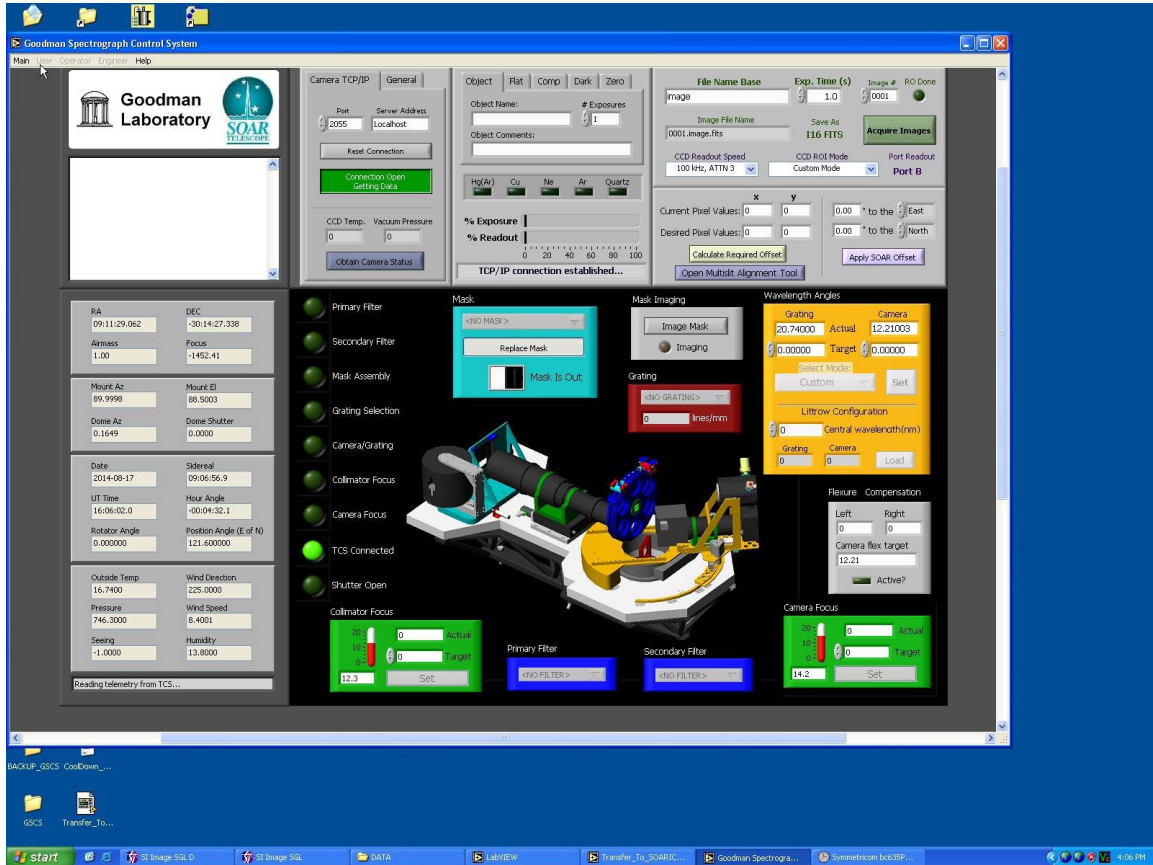
Status Messages: 12:05:05 PM - Op-Nazmyth Right - Goodman Electr (3) ON

IP outlet: 139.229.15.38

Infra-Nazmyth Right, Infra-Nazmyth Left, Comms, MIC, Elevation Platform, SOI Electronic Rack, Op-Nazmyth Right, Op-Nazmyth Left

Outlet	Description	State	Status	ACTION
1	Goodman PC	ON	OK	change 1 cycle 1
2	Goodman Cam Ctr	ON	OK	change 2 cycle 2
3	Goodman Electr	ON	OK	change 3 cycle 3
4	ISB Motor Int	ON	OK	change 4 cycle 4
5	Comp Lamp Ctr	ON	OK	change 5 cycle 5
6	Peltier SAM	ON	OK	change 6 cycle 6
7	Opt Guider Leach PS	ON	OK	change 7 cycle 7
8	Peltier Opt Gdr PS	ON	OK	change 8 cycle 8

INGRESAR A GUI DEL GOODMAN, USUARIO OPERATORS ESCRIBIR PASSWORD



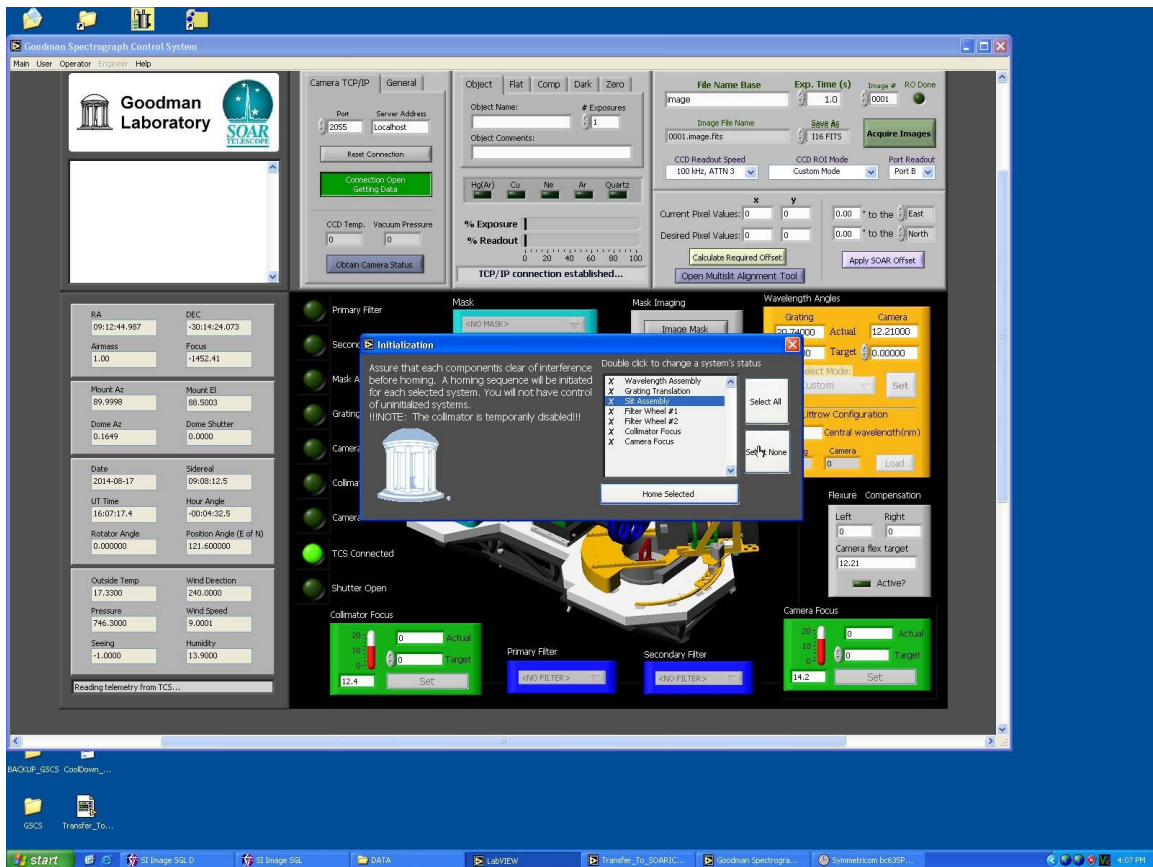
SELECCIONAR HOME SYSTEM

The screenshot displays the Goodman Spectrograph Control System (GSCS) software interface. The window title is "Goodman Spectrograph Control System". The interface is divided into several functional areas:

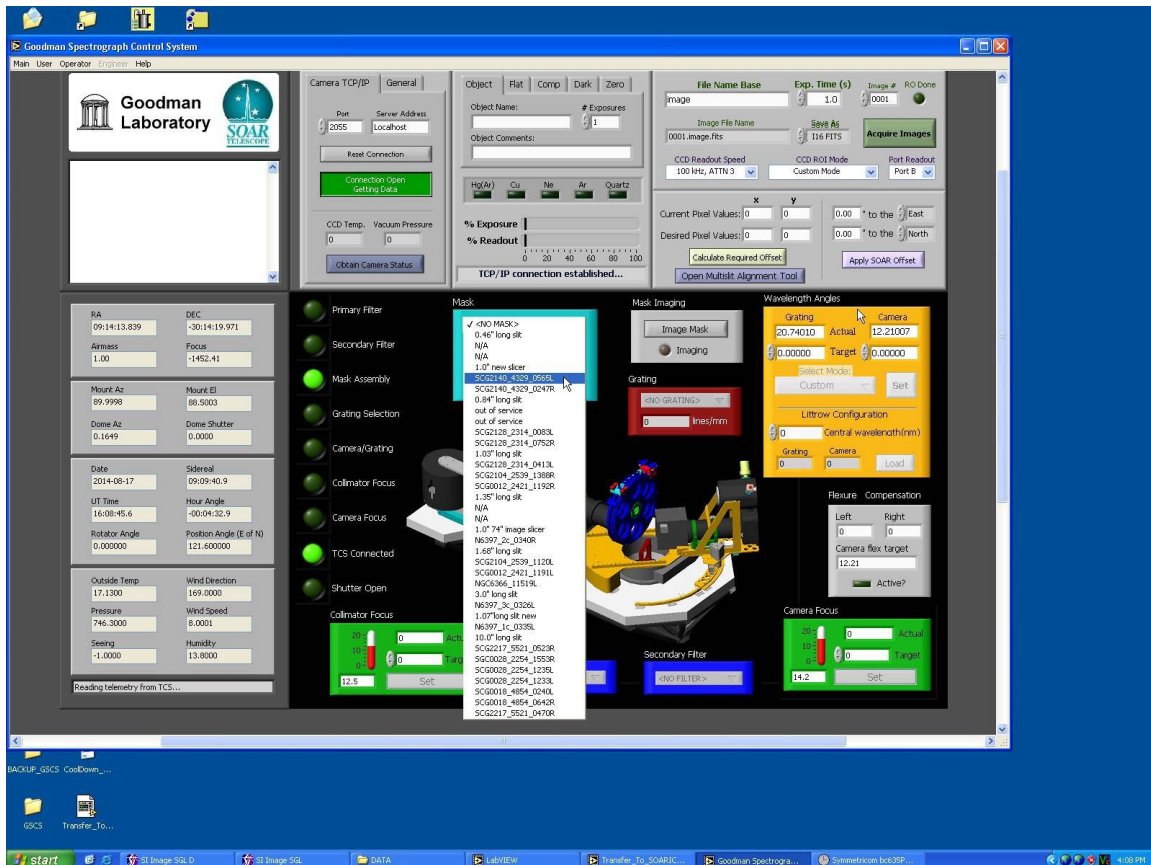
- Header:** Includes the Goodman Laboratory logo and the SOAR (Southern Observatory for Astrophysics Research) logo.
- Camera TCP/IP Section:** Contains fields for "Part" (2055) and "Server Address" (localhost), along with buttons for "Reset Connection", "Connection Open Getting Data", "Obtain Camera Status", "CCD Temp.", and "Vacuum Pressure".
- Object Section:** Features tabs for "Object", "Flat", "Comp", "Dark", and "Zero". It includes fields for "Object Name", "# Exposures" (1), and "Object Comments".
- File Name Base Section:** Includes "File Name Base" (image), "Exp. Time (s)" (1.0), "Image #", "RO Done", "Image File Name", "Save As" (116 FITS), and "Acquire Images" button. It also has "CCD Readout Speed" (100 Hz, ATTN 3) and "CCD ROI Mode" (Custom Mode).
- Pixel Values Section:** Contains "Current Pixel Values" and "Desired Pixel Values" for X and Y coordinates, with "Calculate Required Offset" and "Apply SOAR Offset" buttons.
- Telemetry Section (Left):** Displays various system parameters such as RA (09:12:31.105), DEC (-30:14:24.585), Azimuth (1.00), Focus (-1452.41), Mount Az (89.9998), Mount El (88.5003), Dome Az (0.1449), Dome Shutter (0.0000), Date (2014-08-17), Sidereal (09:07:58.6), UT Time (16:07:03.6), Hour Angle (-00:04:32.4), Rotator Angle (0.000000), Position Angle (E of N) (121.600000), Outside Temp (17.2800), Wind Direction (263.5000), Pressure (746.4000), Wind Speed (1.5000), Seeing (1.0000), and Humidity (14.0000).
- Control Panel (Center):** Features a central 3D model of the spectrograph. Surrounding it are controls for "Primary Filter", "Secondary Filter", "Mask Assembly", "Grating Selection", "Camera/Grating", "Collimator Focus", "Camera Focus", "TCS Connected", and "Shutter Open".
- Mask and Grating Section:** Includes "Mask" (SNO MASK), "Mask Imaging" (Image Mask, Mask is Out), and "Grating" (SNO GRATING, lines/mm).
- Wavelength Angles Section:** Shows "Grating" (20.74000) and "Camera" (12.21003) values, with "Actual" and "Target" fields. It also includes "Litrow Configuration" and "Central wavelength (nm)".
- Flexure Compensation Section:** Contains "Left" and "Right" fields (0) and "Camera flex target" (12.21).
- Camera Focus Section:** Includes "Actual" (12.4) and "Target" (14.3) fields.

The Windows taskbar at the bottom shows the Start button and several open applications: ST Image SQL, Image SQL, DATA, LabVIEW, Transfer_To_SOARIC..., Goodman Spectrogra..., and Symmetrom_bcc3P... The system clock indicates 4:07 PM.

SELECCIONAR NONE, AHORA DOBLE CLICK EN SLIT ASSEMBLY



CUANDO LUZ VERDE NOS INDIQUE QUE ESTA INICIALIZADO EL SLIT ASSEMBLY, PODEMOS SELECCIONAR EL SLIT ADECUADO, DE TAL FORMA QUE EN LA PARTE TRASERA DEL CARRUSEL PODAMOS ACCESAR EL QUE RETIRAREMOS

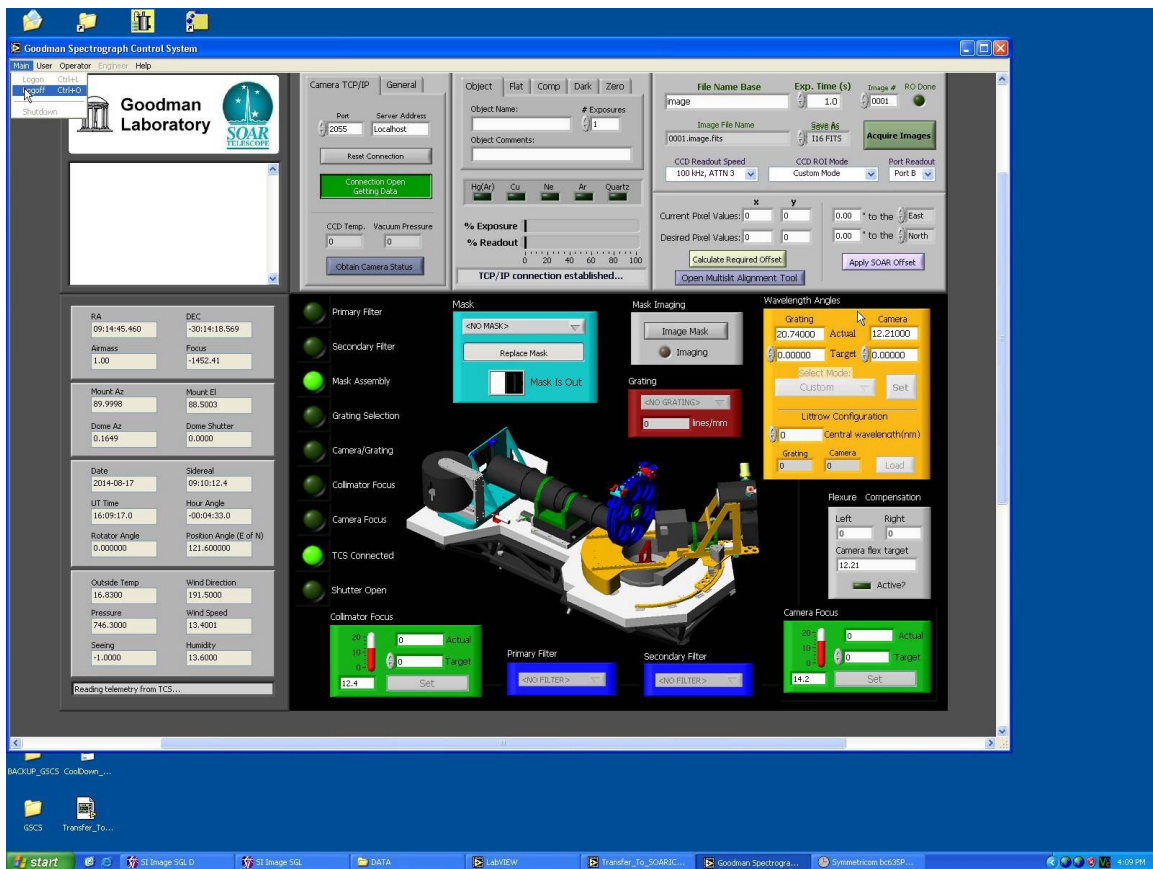


EN FOTO ANTERIOR AL SELECCIONAR MASCARA SCG2140_4329_0565L, PODREMOS RETIRAR LA MASCARA SCG0012_2421_1191L

O SEA, TENDREMOS EL SLOT 5 EN LA PARTE FRONTAL DEL GOODMAN Y EL LA PARTE POSTERIOS ACCESAMOS EL SLOT 23

LUEGO EN GOODMAN ABRIR PUERTA QUE DA ACCESO AL CARRUSEL EN PARTE TRASERA, INSTALAR HOLDER CON MASCARA CORRESPONDIENTE, VERIFICAR QUE EL HOLDER TENGA ESCRITO CON LAPIZ GRAFITO EL NUMERO DE SLOT Y QUE COINCIDA CON EL NUMERO ESCRITO EN CARRUSEL, ADEMAS LA MASCARA DEBE ESTAR IDENTIFICADA CON LAPIZ GRAFITO EN LA PARTE OSCURA

LUEGO DE HABER INSTALADO TODAS LAS MASCARAS EN CARRUSEL HACER UN LOGOFF DE LA APLICACIÓN Y DESPUES UN SHUTDOWN



Goodman Spectrograph Control System

Man | User | Operator | Engineer | Help

Shutdown | Logon | Logoff | Ctrl+O | Ctrl+D

Goodman Laboratory SOAR TELESCOPE

Camera TCP/IP | General

Port: 2055 | Server Address: localhost

Reset Connection

Connection Open Getting Data

CCD Temp.: 0 | Vacuum Pressure: 0

Obtain Camera Status

TCP/IP connection established...

Object: Flat | Comp: Dark | Zero

Object Name: | # Exposures: 1

Object Comments:

File Name Base: image | Exp. Time (s): 1.0 | Image #: 0001 | ROI Done

Image File Name: 0001_image.fits | Save As: 116 FITS | Acquire Images

CCD Readout Speed: 100 kHz, ATTN 3 | CCD ROI Mode: Custom Mode | Port Readout: Port B

Current Pixel Values: x: 0, y: 0 | 0.00 to the East

Desired Pixel Values: x: 0, y: 0 | 0.00 to the North

Calculate Required Offset | Apply SOAR Offset

Open Multislit Alignment Tool

RA: 09:14:58.139 | DEC: -30:14:18.069

Altaz: 1.00 | Focus: -1452.41

Mount Az: 89.9998 | Mount El: 88.5003

Dome Az: 0.1449 | Dome Shutter: 0.0000

Date: 2014-08-17 | Sidereal: 09:10:25.0

UT Time: 16:09:29.6 | Hour Angle: -00:04:33.1

Rotator Angle: 0.000000 | Position Angle (E of N): 121.600000

Outside Temp: 16.7200 | Wind Direction: 204.8000

Pressure: 746.3000 | Wind Speed: 9.4001

Seeing: -1.0000 | Humidity: 13.6000

Reading telemetry from TCS...

Primary Filter: Mask Is Out

Secondary Filter: Mask Imaging

Mask Assembly: Grating

Grating Selection: Litrow Configuration

Camera/Grating: Grating: 0 | Camera: 0

Collimator Focus: Flexure Compensation

Camera Focus: Camera Flex target: 12.21

Shutter Open: Active?

Collimator Focus: Primary Filter: Secondary Filter

Camera Focus: Camera Focus

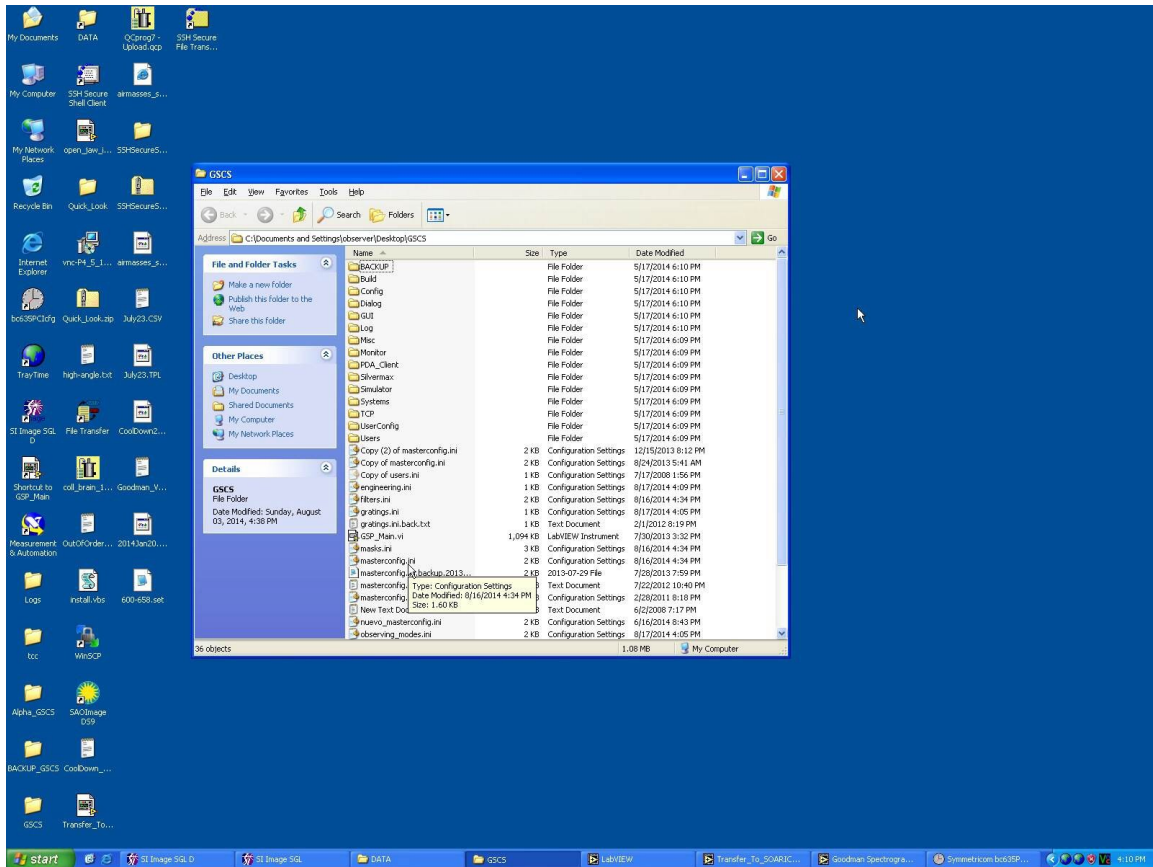
BACKUP_GSCS | CoolDown... | GSCS | Transfer_To...

start | ST Image SGL | Image SGL | DATA | LabVIEW | Transfer_To_S06RJC... | Goodman Spectrogra... | Symmetrom_bcc3FP...

4:09 PM

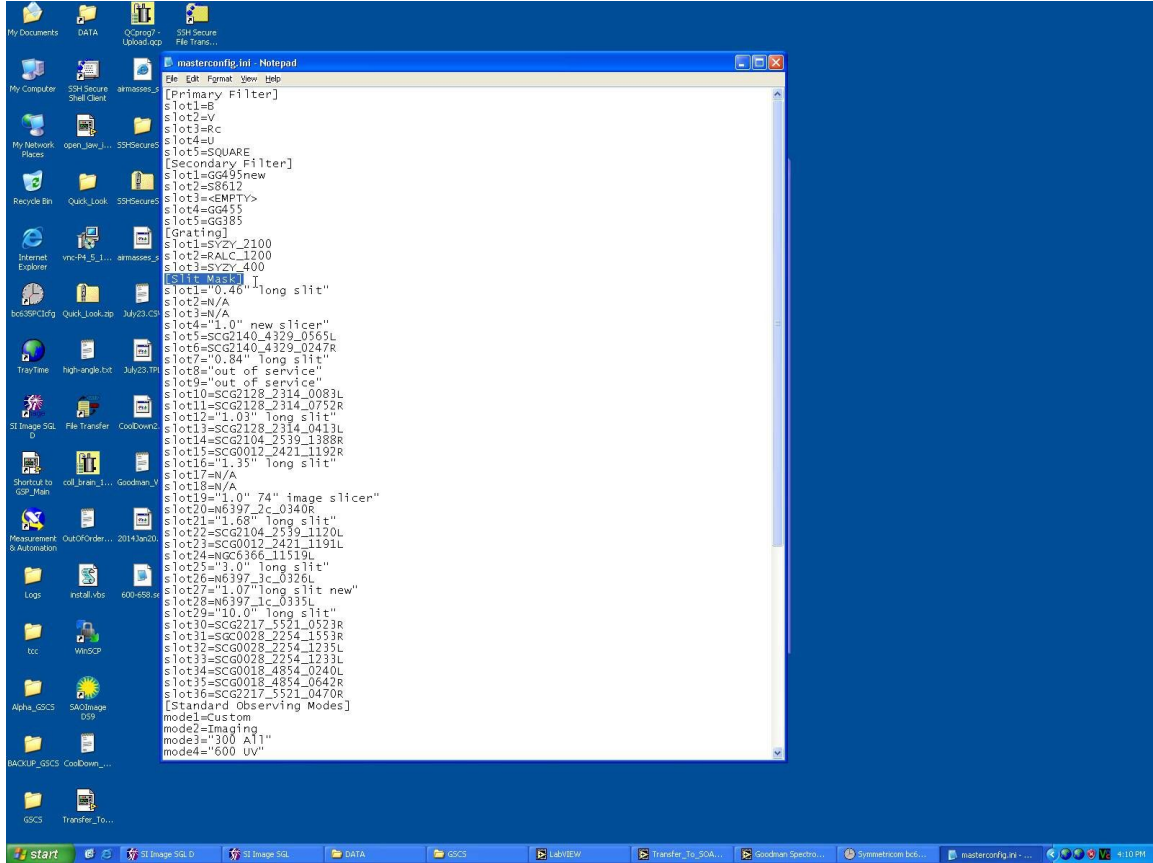
AHORA DEBEMOS ACTUALIZAR EL ARCHIVO MASTERCONFIG.INI

ABRIR CARPETA GSC

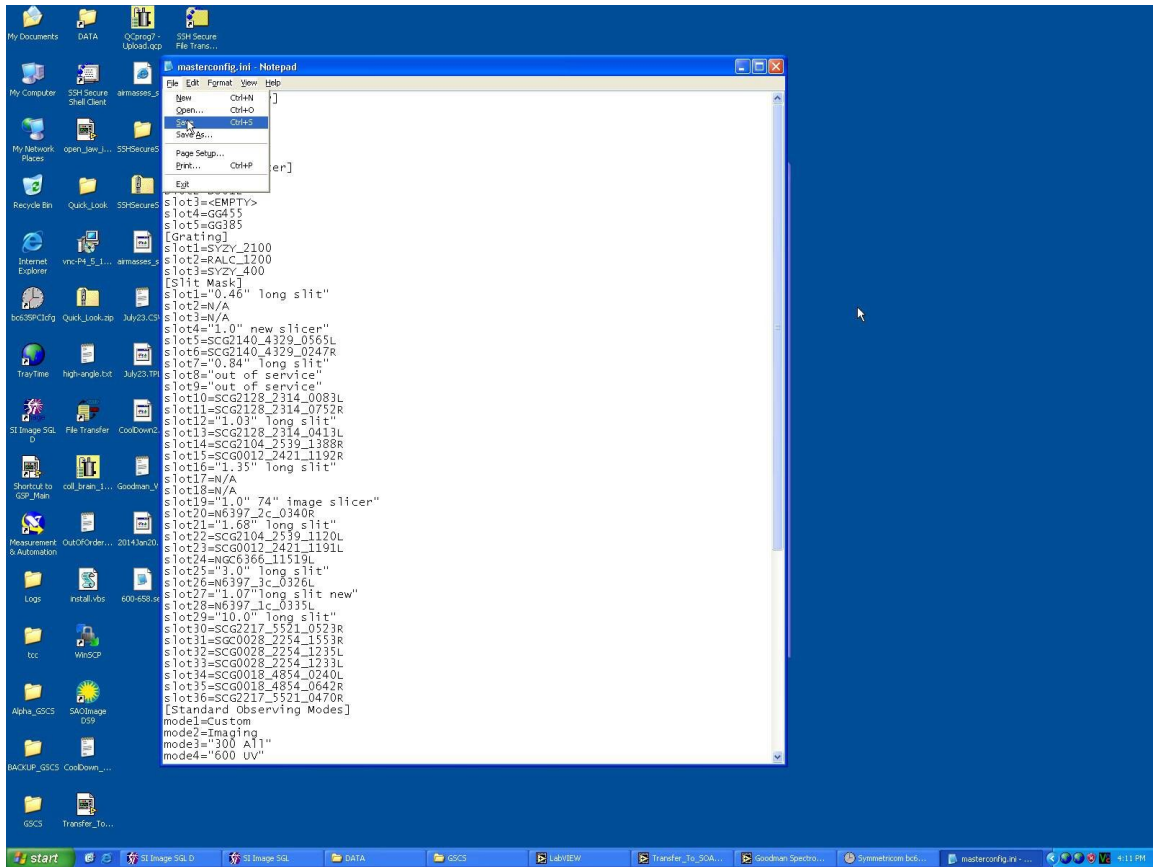


EN ARCHIVO MASTERCONFIG.INI

EDITAR LOS SLOTS CON LAS MASCARAS ACTUALES



DESPUES DE HABER TERMINADO LA EDICION, SALVAR EL ARCHIVO



**ARCHIVO MASTERCONFIG.INI, ULTIMA COLUMNA EL NUMERO DE SLOT
A SELECCIONAR PARA CAMBIAR MASCARAS**

	MASTERCONFIG.INI GOODMAN	
SLOT FRONTAL		SLOT TRASERO
SLOT 1	0.46" long slit	19
SLOT 2	N/A	20
SLOT 3	N/A	21
SLOT 4	1.0" new slicer	22
SLOT 5	SCG2140_4329_0565L	23
SLOT 6	SCG2140_4329_0247R	24
SLOT 7	0.84" long slit	25
SLOT 8	out of service	26
SLOT 9	out of service	27
SLOT 10	SCG2128_2314_0083L	28
SLOT 11	SCG2128_2314_0752R	29
SLOT 12	1.03" long slit	30
SLOT 13	SCG2128_2314_0413L	31
SLOT 14	SCG2104_2539_1388R	32
SLOT 15	SCG0012_2421_1192R	33
SLOT 16	1.35" long slit	34
SLOT 17	N/A	35
SLOT 18	N/A	36
SLOT 19	1.0" 74" image slicer	1
SLOT 20	N6397_2c_0340R	2
SLOT 21	1.68" long slit	3
SLOT 22	SCG2104_2539_1120L	4
SLOT 23	SCG0012_2421_1191L	5
SLOT 24	NGC6366_11519L	6
SLOT 25	3.0" long slit	7
SLOT 26	N6397_3c_0326L	8
SLOT 27	1.07" long slit new	9
SLOT 28	N6397_1c_0335L	10
SLOT 29	10.0" long slit	11
SLOT 30	SCG2217_5521_0532R	12
SLOT 31	SCG0028_2254_1553R	13
SLOT 32	SCG0028_2254_1235L	14
SLOT 33	SCG0028_2254_1233L	15
SLOT 34	SCG0018_4854_0240L	16
SLOT 35	SCG0018_4854_0642R	17
SLOT 36	SCG2217_5521_0470R	18
		15-Aug_2014
N/A means open	but cannot be used due to Image Slicer	

PATRICIO UGARTE AGOSTO 2014.