

# On the follow-up observation

- ❖ How BAs get quick notices of new GW events

## Slack

The screenshot shows a Slack workspace named "SVOM-O3" with a user "Xuhui Han". The left sidebar lists channels, with "# gwalert" selected. The main chat area shows messages from an "incoming-webhook" app. A red box highlights the channel header "#gwalert".

**#gwalert** (28 members, 0 topics)

Wednesday, October 9th

EventPage: <https://gracedb.ligo.org/superevents/S190930s/view/>  
Observation program launched

**incoming-webhook** APP 11:17 PM

-----  
new GCN notice  
-----  
ID : S190930s with status Initial  
EventPage: <https://gracedb.ligo.org/superevents/S190930s/view/>  
Observation program launched

Thursday, October 10th

**incoming-webhook** APP 5:24 PM

-----  
new GCN notice  
-----  
ID : S190930s with status Initial  
EventPage: <https://gracedb.ligo.org/superevents/S190930s/view/>  
Observation program launched

-----  
GW alert  
-----  
GW NAME : S190930s Trigger Time: 2019-09-30T13:35:41.246810  
Instruments: H1,L1  
EventPage: <https://gracedb.ligo.org/superevents/S190930s/view/>  
Search: CBC  
HasRemnant: 0.0  
Delay since alert: 9 days, 19:48:52.821994

Message #gwalert



# On the follow-up observation

- ❖ Where BAs find weather & instrument information

## Slack & WeChat Work


#xinglongobsinfo

☆ | 18 | 0 | Add a topic

Wednesday, October 9th

cloud ▾

2019/10/9 02:14



xinglongobsinfo APP 3:10 AM

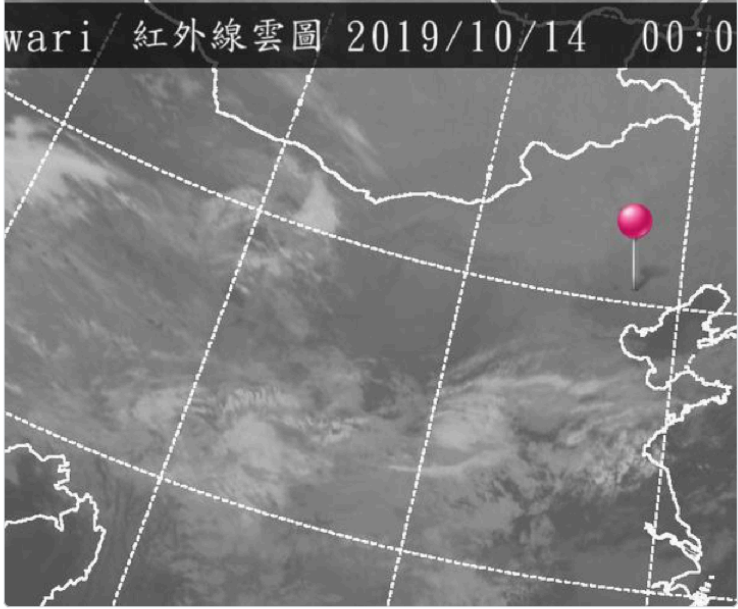
BeijingTime(UTC+8)=2019-10-09 03:09:58 , observation=on , dome=NULL , gwac=offline , w60cm=online , e60cm=offline , 30cm=online

xinglongweatherinfo APP 3:18 AM

Weather Condition=2019/10/09 03:17 , temperature=9.1 , humidity=52.70 , wind=1.60 , dew-point spread=9.15 , ST=04:17:28

xinglongobsinfo

wari 紅外線雲圖 2019/10/14 00:00



Yesterday 1:11 AM

BeijingTime(UTC+8)=2019-10-14 01:10:15 , observation=on , dome=NULL , gwac=offline , w60cm=online , e60cm=offline , 30cm=online

Yesterday 1:26 AM

Weather Condition=2019/10/14 01:25 , temperature=0.1 , humidity=38.30 , wind=5.40 , vane=南风 , dew-point spread=12.55 , ST=02:44:16



# On the follow-up observation

- ❖ Where BAs find observation plan or status

## BA web interface

Obs ID	Field ID	RA mount [deg]	dec mount [deg]	Pointing grade	Obs. type	Telescope	Status	Last update	#images	#OT
590	25410255	254.1	25.5	0.0826	tiling	GWAC_unit2	complete	2019-09-03 12:21:46	✗	✗
591	6301085	63	-8.5	0.1156	tiling	GWAC_unit4	complete	2019-09-03 19:28:17	✗	✗
1	04420664-1532174	70.5277	-15.5382	0.000967003	Gal. target.	F60	received @ GWAC		✗	✗
2	940808	71.7285	-13.2362	0.000967039	Gal. target.	F60	received @ GWAC		✗	✗
3	16535683+2338028	253.487	23.6341	0.000967431	Gal. target.	F60	received @ GWAC		✗	✗
4	176522	55.2629	-28.6848	0.000968106	Gal. target.	F60	received @ GWAC		✗	✗
5	813910	51.3264	-22.4605	0.000968154	Gal. target.	F60	received @ GWAC		✗	✗
6	987576	58.4298	-9.70336	0.00096826	Gal. target.	F60	received @ GWAC		✗	✗
7	739256	55.2259	-28.64	0.000968472	Gal. target.	F60	received @ GWAC		✗	✗
8	SDSSJ170515.51+212720.6	256.315	21.4557	0.000968645	Gal. target.	F60	received @ GWAC		✗	✗

Obs ID	Field ID	RA mount [deg]	dec mount [deg]	Pointing grade	Obs. type	Telescope	Status	Last update	#images	#OT
29	28640008	317.06	12.75	0.0028	tiling	GWAC/F30	break	2019-10-01 16:45:37	✗	✗
51	8921008	311.22	24.65	0.0025	tiling	GWAC/F30	break	2019-10-01 17:07:09	✗	✗
1	31050255	310.57	25.5	0.1042	tiling	GWAC_unit2	complete	2019-10-01 13:11:45	✗	✗
2	31500085	315	8.5	0.1004	tiling	GWAC_unit2	complete	2019-10-01 13:44:10	✗	✗
3	31480425	314.82	42.5	0.0909	tiling	GWAC_unit4	complete	2019-10-01 13:12:29	✗	✗
4	32890595	328.93	59.5	0.076	tiling	GWAC_unit4	complete	2019-10-01 13:46:01	✗	✗
5	1430595	14.3	59.5	0.0576	tiling	GWAC_unit2	complete	2019-10-01 16:25:01	✗	✗
6	33301085	333	-8.5	0.0437	tiling	GWAC_unit2	complete	2019-10-01	✗	✗



# On the follow-up observation

- ❖ How BAs know the duty scientist shift

## Slack & WeChat Work

The screenshot shows a Slack channel interface for #shifters. At the top, there's a header bar with the channel name, member count (29), topic count (0), and a search bar. The date separator indicates it's Sunday, September 22nd. A message from 'incoming-webhook' (APP) at 3:36 PM contains a table of shifters for the week of 2019-09-23 to 2019-09-29. The table has columns for start time, end time, and shifter name (with a backup name in parentheses). The shifters listed are chao wu (Damien Turpin) from 00:00:00 to 10:00:00, Jean-Gregoire Ducoin (David Corre) from 10:00:00 to 22:00:00, and chao wu (Damien Turpin) from 22:00:00 to 23:59:59. Below the table, there are links to a log interface and a tutorial. Two messages follow: 'David Corre' (6:00 PM) stating 'On duty' and 'Damien Turpin' (6:23 PM) stating 'Off duty nothing to declare'. The date separator changes to Monday, September 23rd. Further down, 'David Corre' (6:02 AM) says 'Off duty.', 'Duty scientist' (APP) (8:30 AM) lists duty periods for Liping\_Xin (Mon 2019-09-23 to Thu 2019-09-26) and Tianci\_Zheng (Fri 2019-09-27 to Sun 2019-09-29), and 'Chao WU' (8:50 AM) states 'On duty'.

#shifters

☆ | 👤 29 | 📁 0 | ➕ Add a topic

🔍 Search

@ ☆

Sunday, September 22nd

incoming-webhook APP 3:36 PM

-----

The shifters of the next week: 2019-09-23 - 2019-09-29

-----

Start time [UTC] | End time [UTC] | shifter name (shifter backup name)

00:00:00 | 10:00:00 | chao wu (Damien Turpin)

10:00:00 | 22:00:00 | Jean-Gregoire Ducoin (David Corre)

22:00:00 | 23:59:59 | chao wu (Damien Turpin)

Thanks to the previous shifters. Be the BNS mergers strong with you !

Write down any action here: [http://cmm.svom.cn/SVOM\\_BA\\_interface/BA\\_logs.php](http://cmm.svom.cn/SVOM_BA_interface/BA_logs.php)

Tutorial:[http://cmm.svom.cn/SVOM\\_BA\\_interface/documents/howto/SVOM\\_O3\\_Logs.pdf](http://cmm.svom.cn/SVOM_BA_interface/documents/howto/SVOM_O3_Logs.pdf)

David Corre 6:00 PM

On duty

Damien Turpin 6:23 PM

Off duty nothing to declare

Monday, September 23rd

David Corre 6:02 AM

Off duty.

Duty scientist APP 8:30 AM

Mon 2019-09-23 to Thu 2019-09-26 Liping\_Xin

Fri 2019-09-27 to Sun 2019-09-29 Tianci\_Zheng

Chao WU 8:50 AM

On duty



---

# On the follow-up observation

---

- ❖ Whom BAs contact to concerning to the GWAC observation, especially during the night

**Duty scientists of GWAC? Observation assistants? by slack or phone?**

- ❖ 6 duty scientists of GWAC, not all of them in the BA team
- ❖ 5 observation assistants who are not familiar with the scientific background and observation strategies for different GW events

**Or it is better to contact BA manager or BA assistant only**



---

# On the follow-up observation

---

- ❖ Whom BAs contact to use 2m telescopes at Lijang and Xinglong

Jirong for 2.4m telescope

for 2.16m telescope: currently, BAs need to contact duty scientists, who need to contact duty astronomer of Xinglong observatory

- ❖ How BAs apply other telescopes outside of SVOM

Open questions