MuTRG-FEE test

Dec. 8, 2010
MuTr FEE Upgrade Meeting
Itaru, Yoshimitsu and Yoshi

Run List

South Arm

Run#	Thre.	Logic	pulse
322576	10	gap-0 only	0x00
322579	10	gap-1 only	0x00
322580	10	gap-2 only	0x00
322583	20	gap-0 only	0x00
322586	20	gap-1 only	0x00
322587	20	gap-2 only	0x00
322588	30	gap-0 only	0x00
322589	30	gap-1 only	0x00
322593	30	gap-2 only	0x00
322597	40	gap-0 only	0x00
322599	40	gap-1 only	0x00
322602	40	gap-2 only	0x00
322614	40	gap-0 only	0x40
322616	40	gap-1 only	0x40
322618	40	gap-2 only	0x40

North Arm

Run#	Thre.	Logic	pulse
322594	30	gap-2 only	0x40?
322596	40	gap-0 only	0x00
322600	40	gap-1 only	0x00
322601	40	gap-1 only	0x00
322604	10	gap-0 only	0x00
322605	10	gap-1 only	0x00
322606	10	gap-2 only	0x00
322607	20	gap-0 only	0x00
322608	20	gap-1 only	0x00
322609	20	gap-2 only	0x00
322610	30	gap-0 only	0x00
322611	30	gap-1 only	0x00
322615	40	gap-0 only	0x40
322617	40	gap-1 only	0x40
322619	40	gap-2 only	0x40

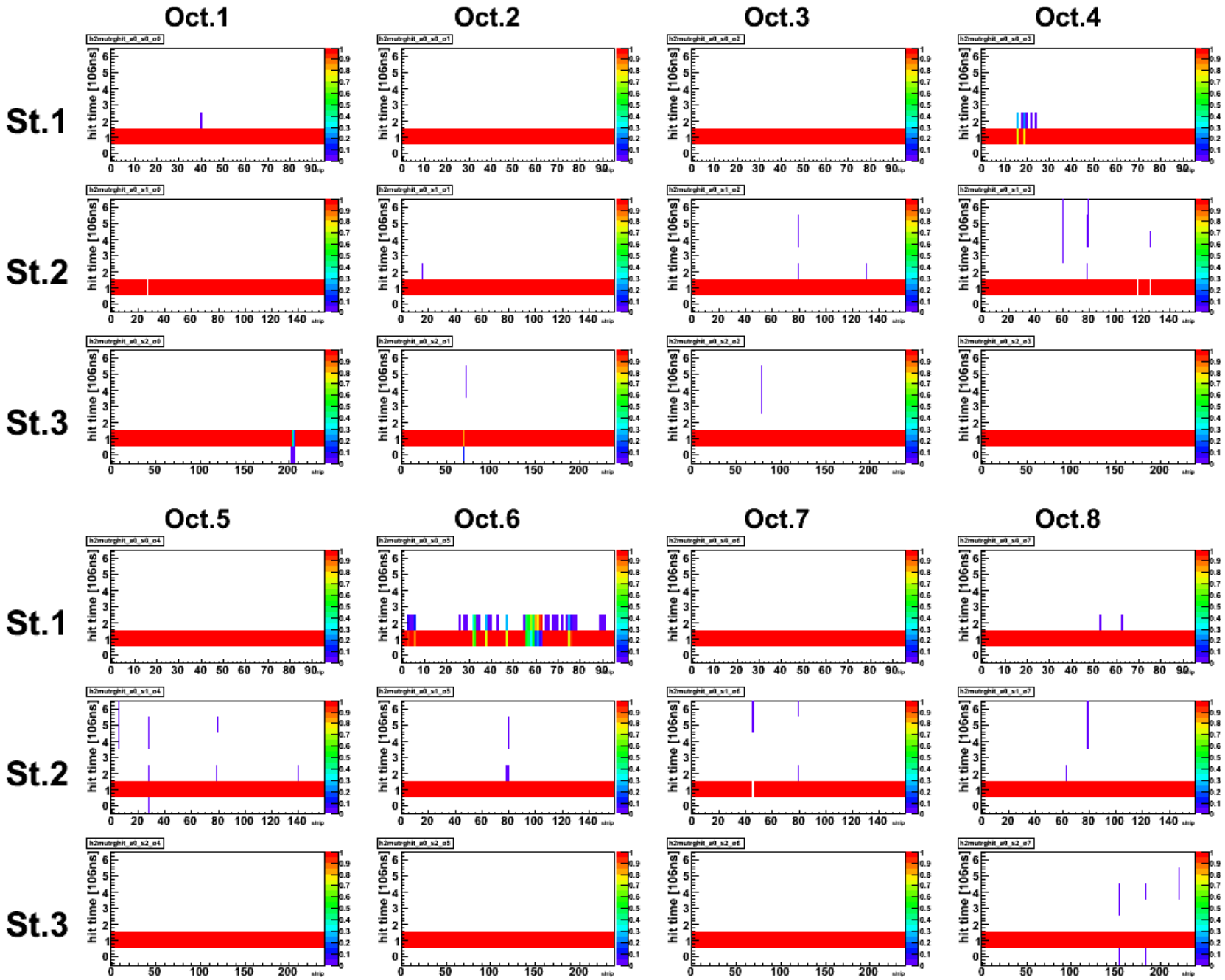
Suspicious Region

Broken ADTX
- N-S3-O4-G2 : Optical Driver trouble?

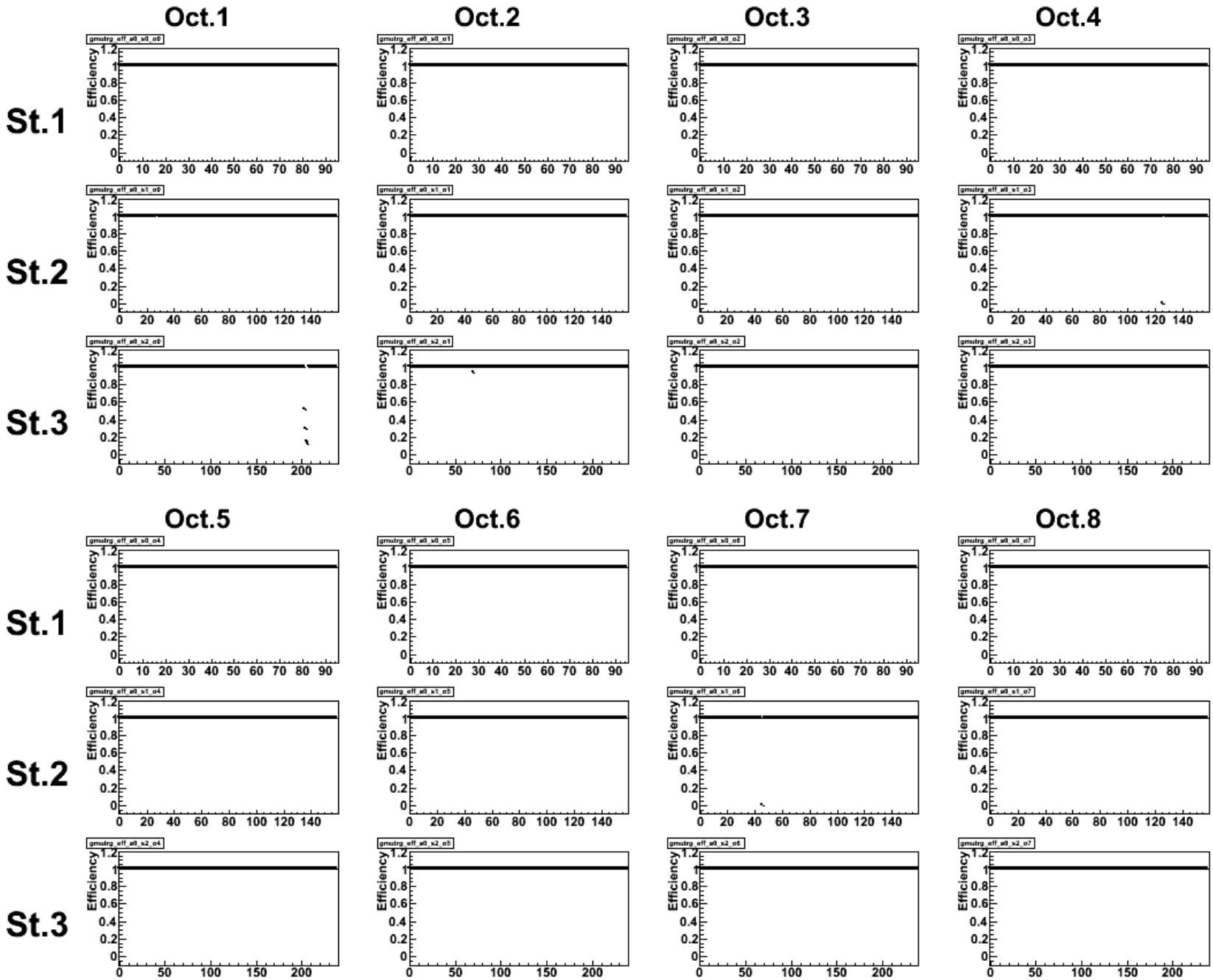
Hit Timing
- N-S1-O1-G3 : shifted by 2BCLK. New problem?

Fake Hit Rate
- S-S1-O3-G2 : Anode grounding problem
- N-S1-O1-G3 : High rate
- N-S1-O8-G1 : High rate
- N-S3-O1-G2 : High rate

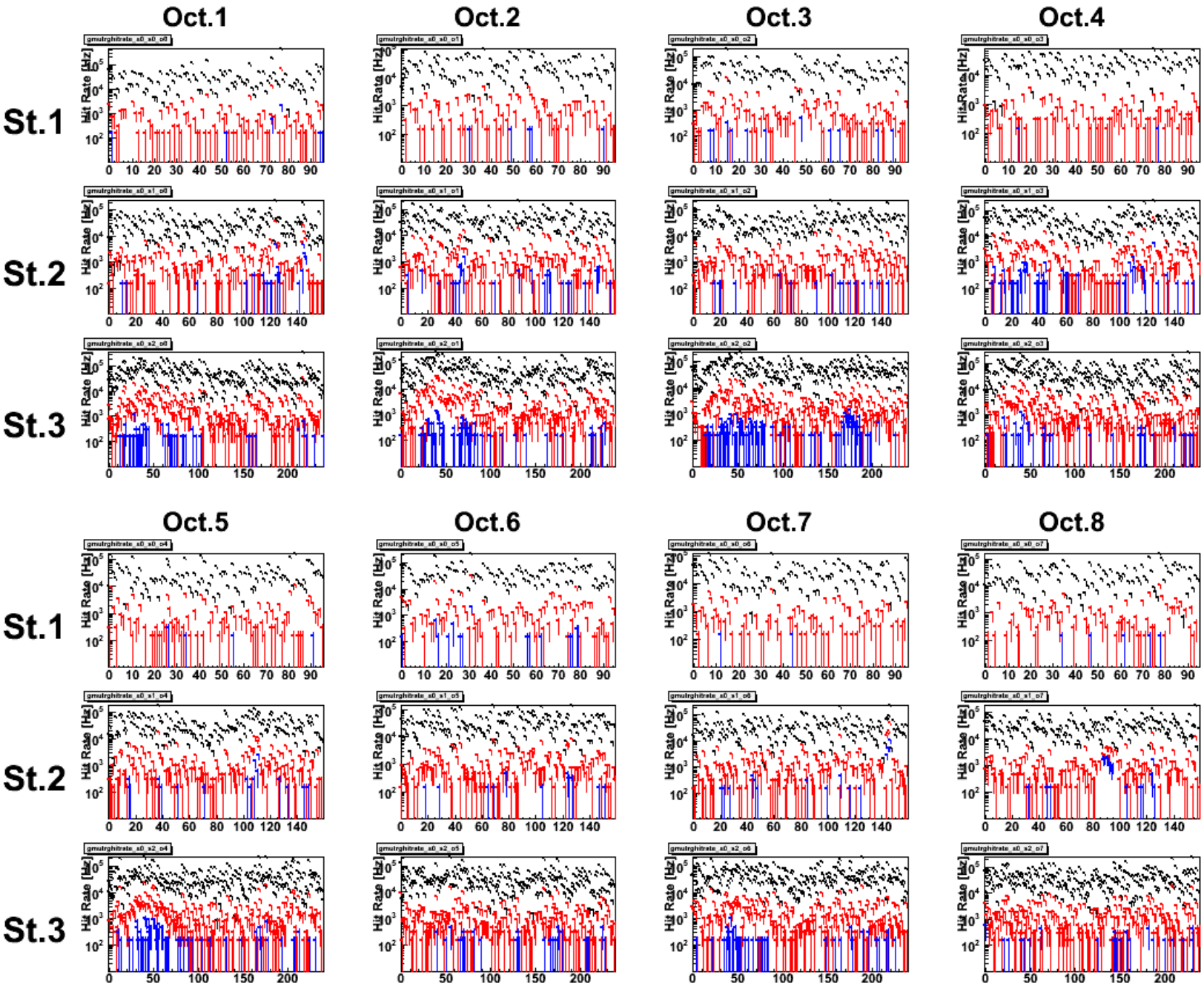
Hit Map (South Gap1)



Hit Efficiency (South Gap1)



Fake Hit Rate (South Gap1)

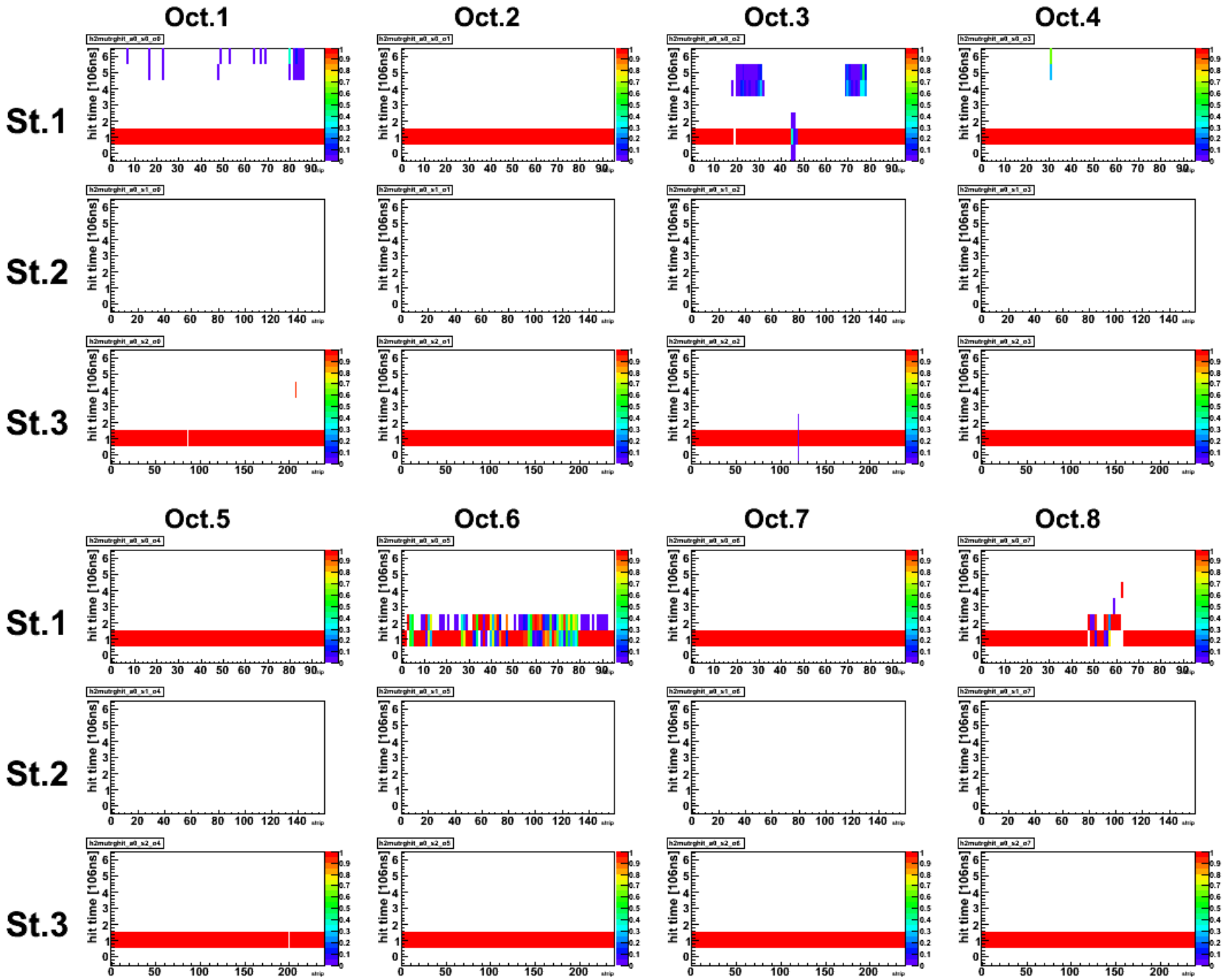


Black
10mV

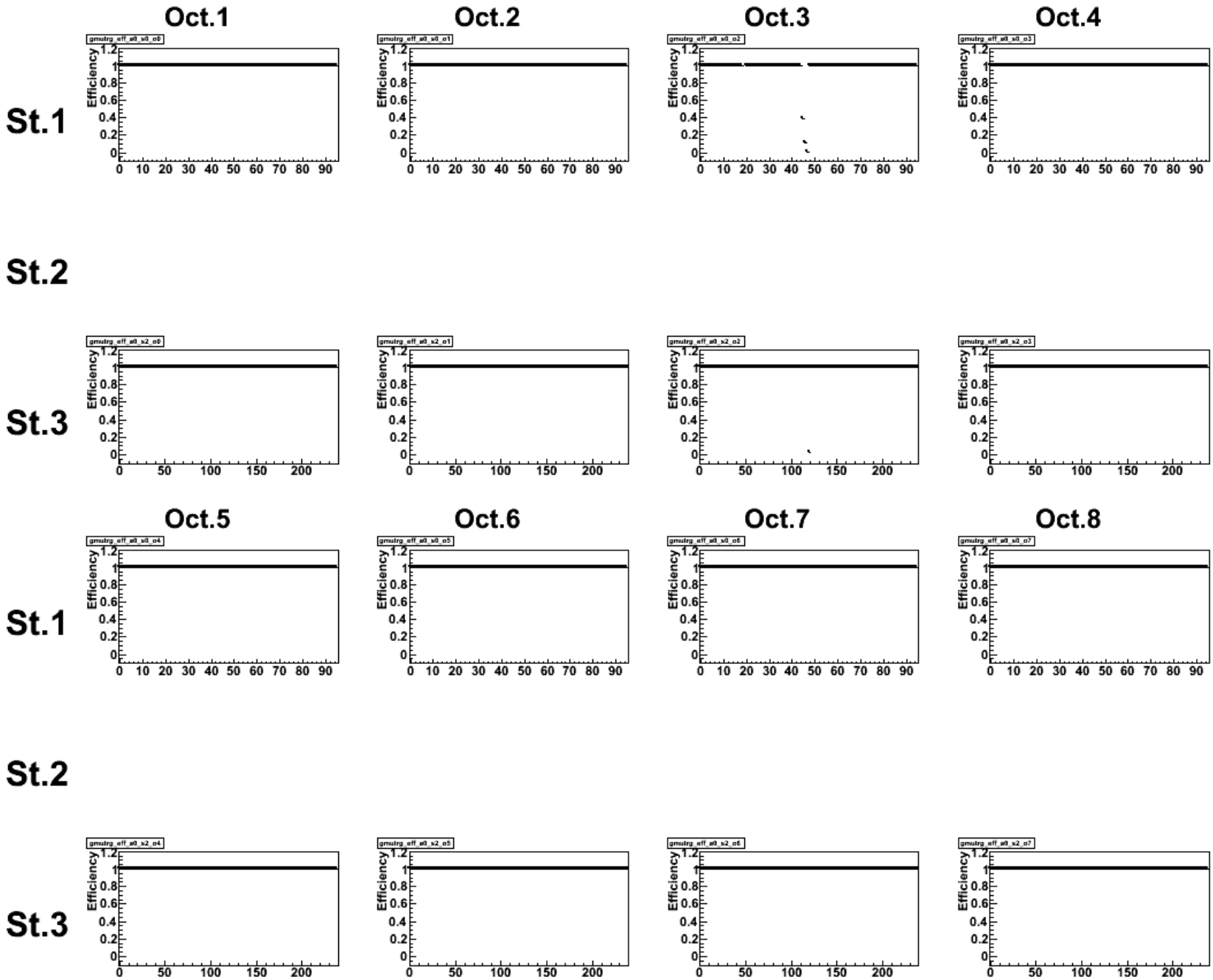
Red
20mV

Blue
30mV

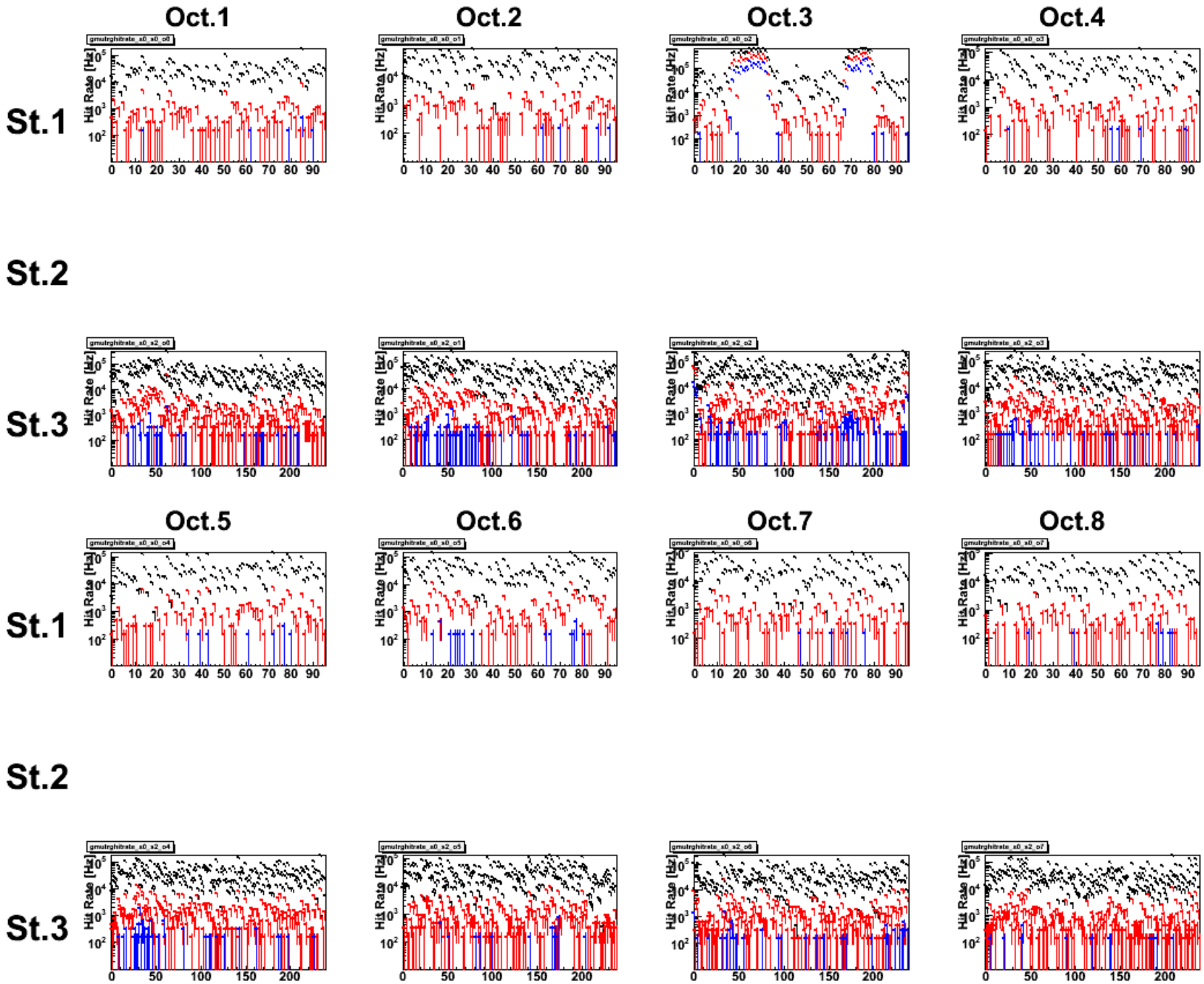
Hit Map (South Gap2)



Hit Efficiency (South Gap2)



Fake Hit Rate (South Gap2)

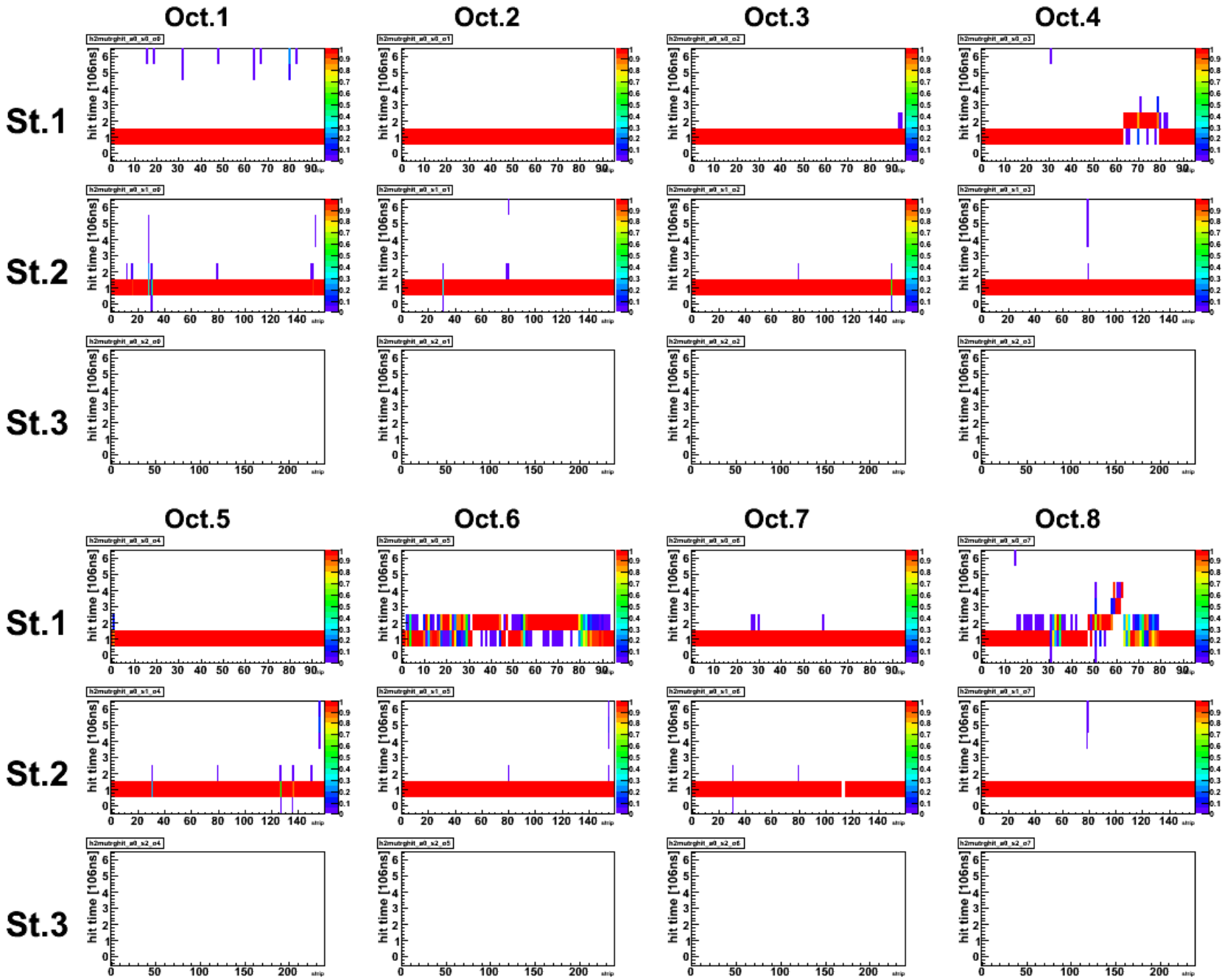


Black
10mV

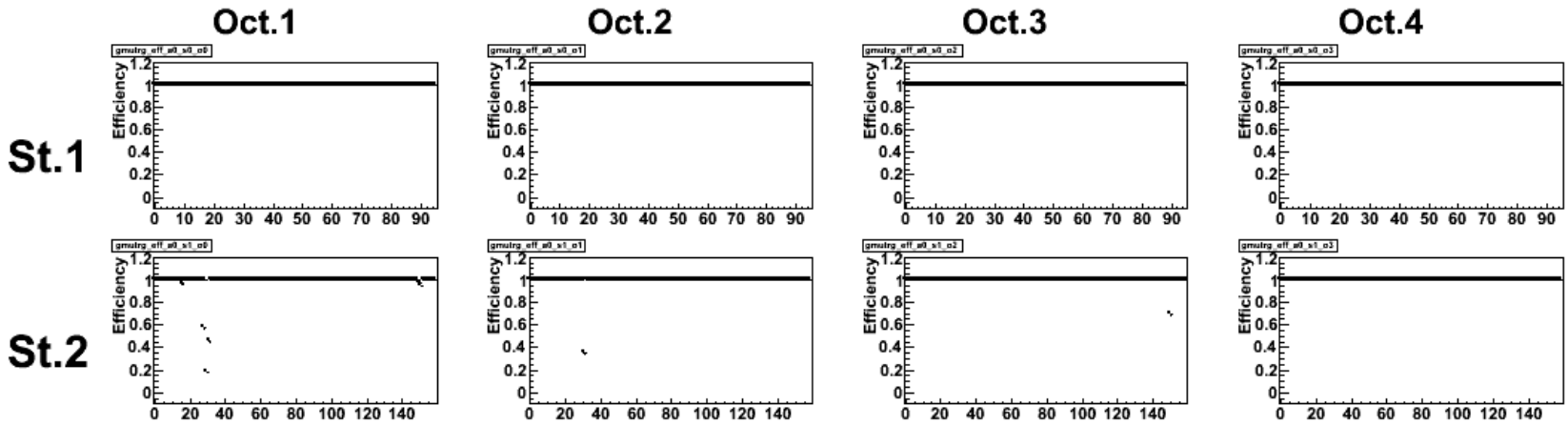
Red
20mV

Blue
30mV

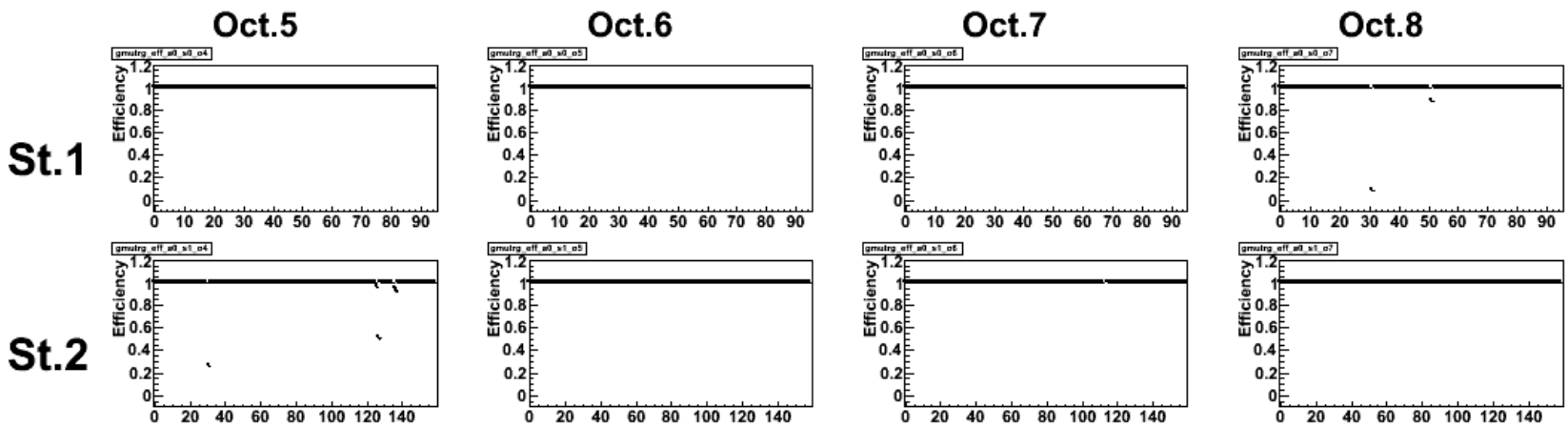
Hit Map (South Gap3)



Hit Efficiency (South Gap3)

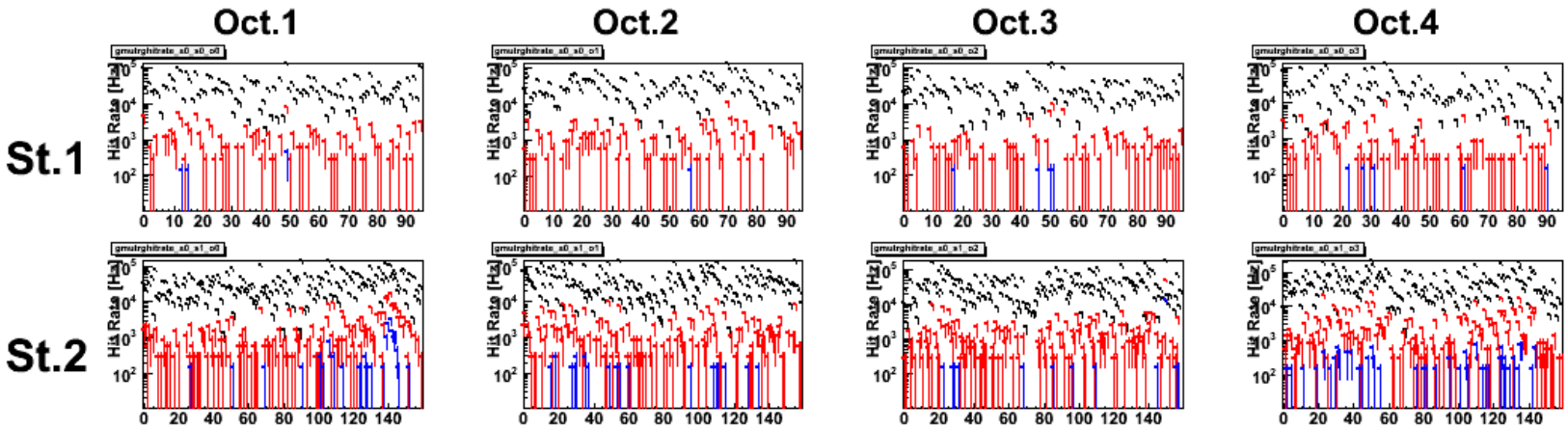


St.3



St.3

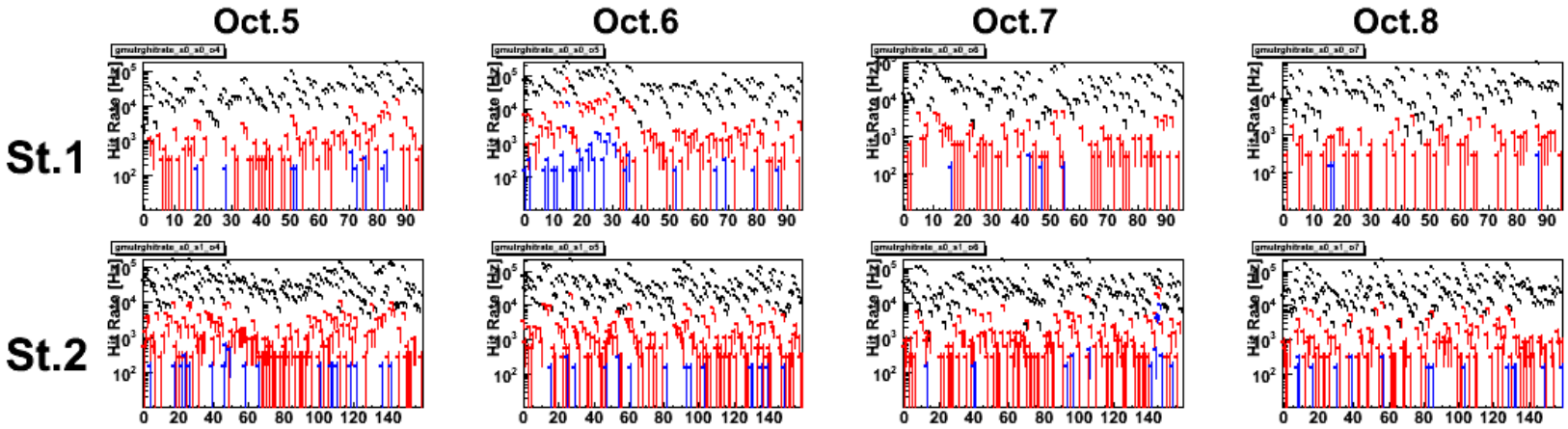
Fake Hit Rate (South Gap3)



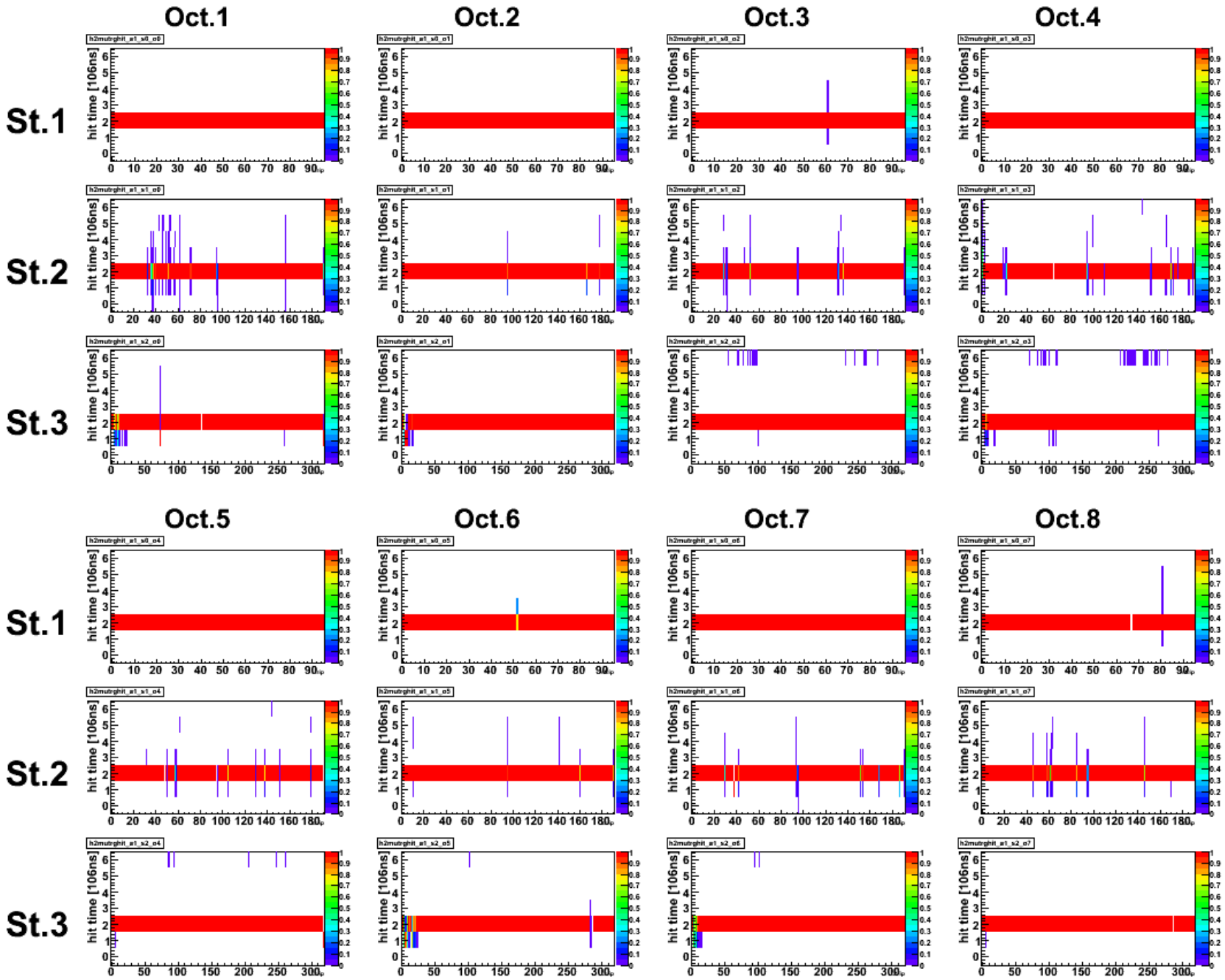
Black
10mV

Red
20mV

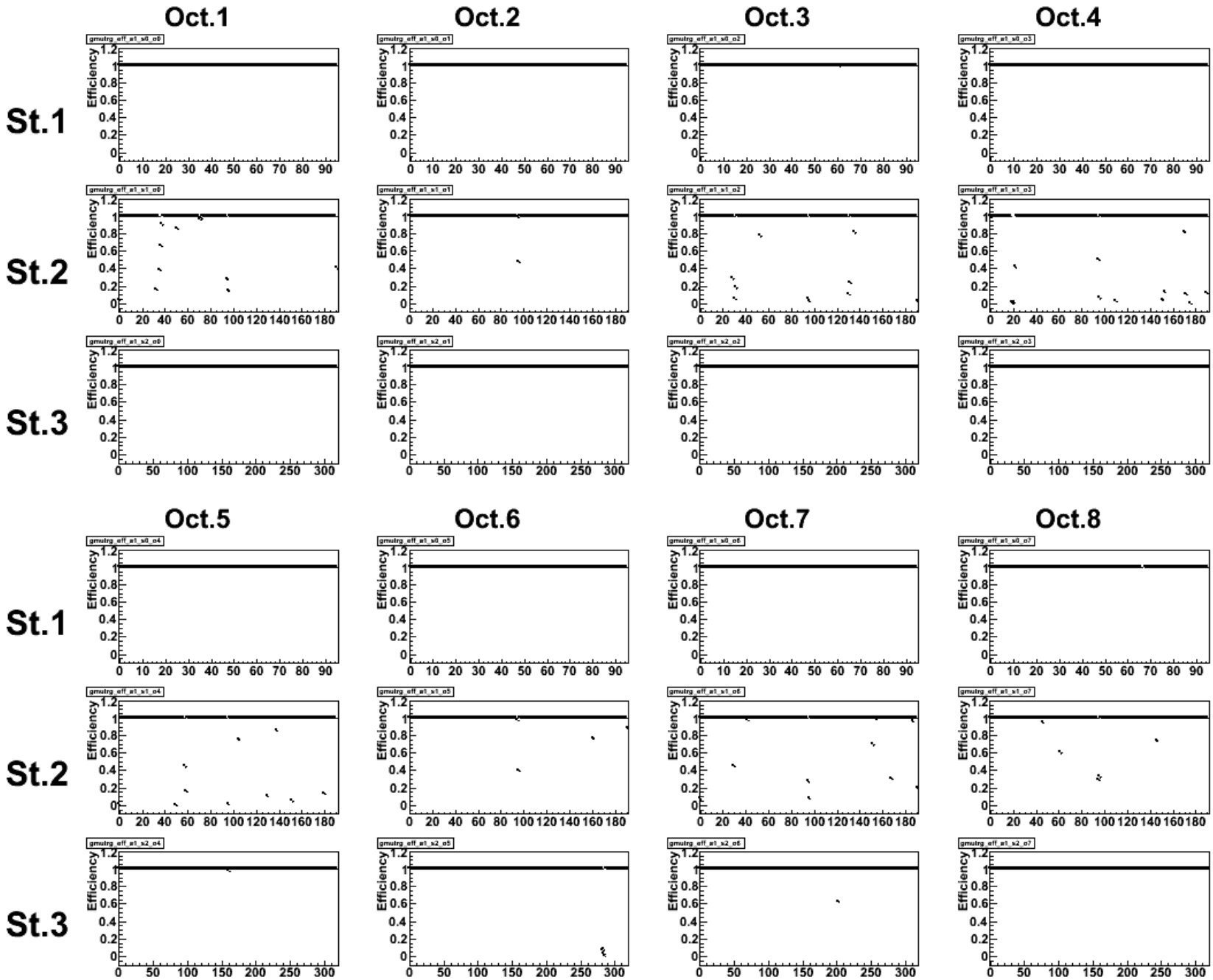
Blue
30mV



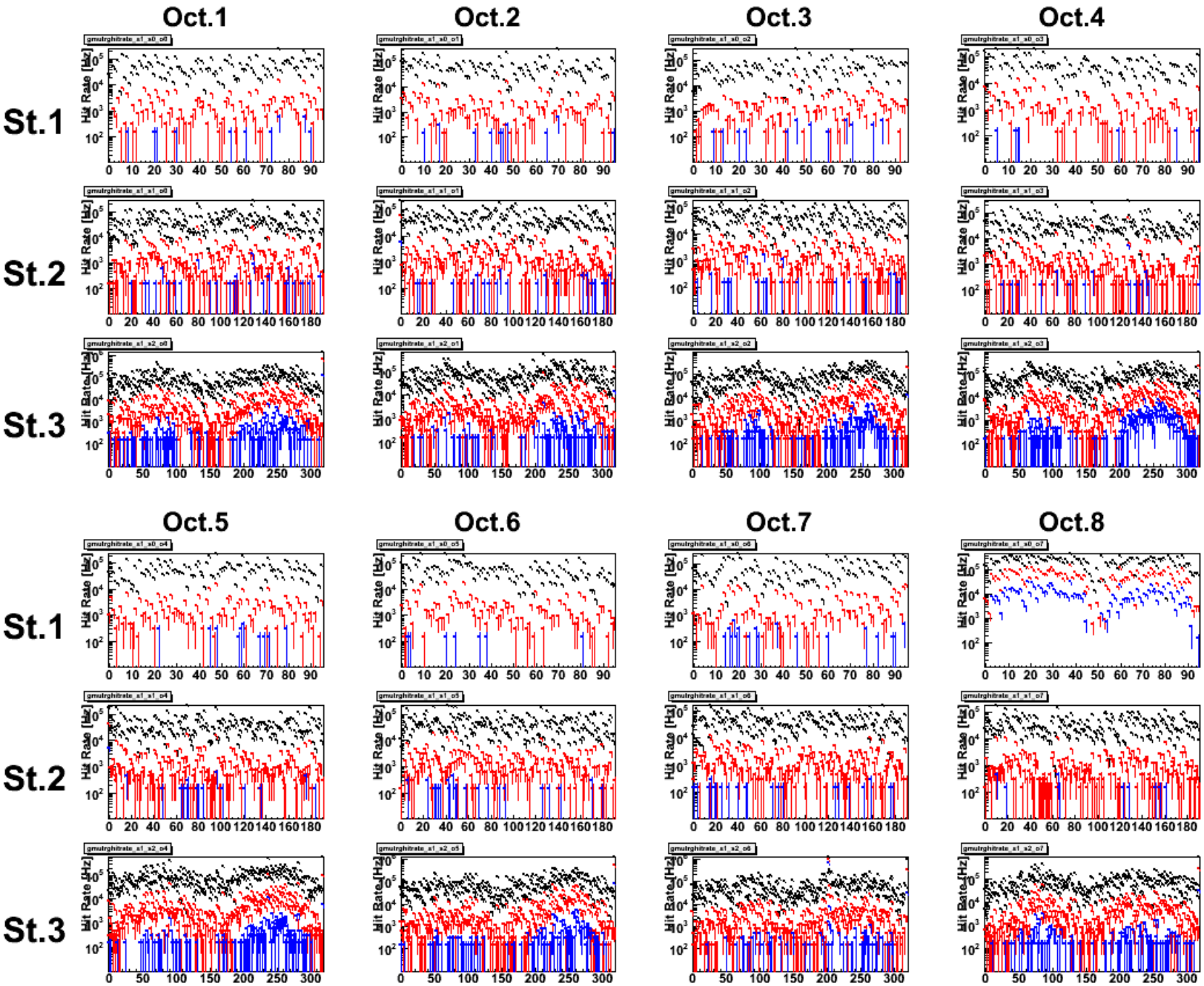
Hit Map (North Gap1)



Hit Efficiency (North Gap1)



Fake Hit Rate (North Gap1)

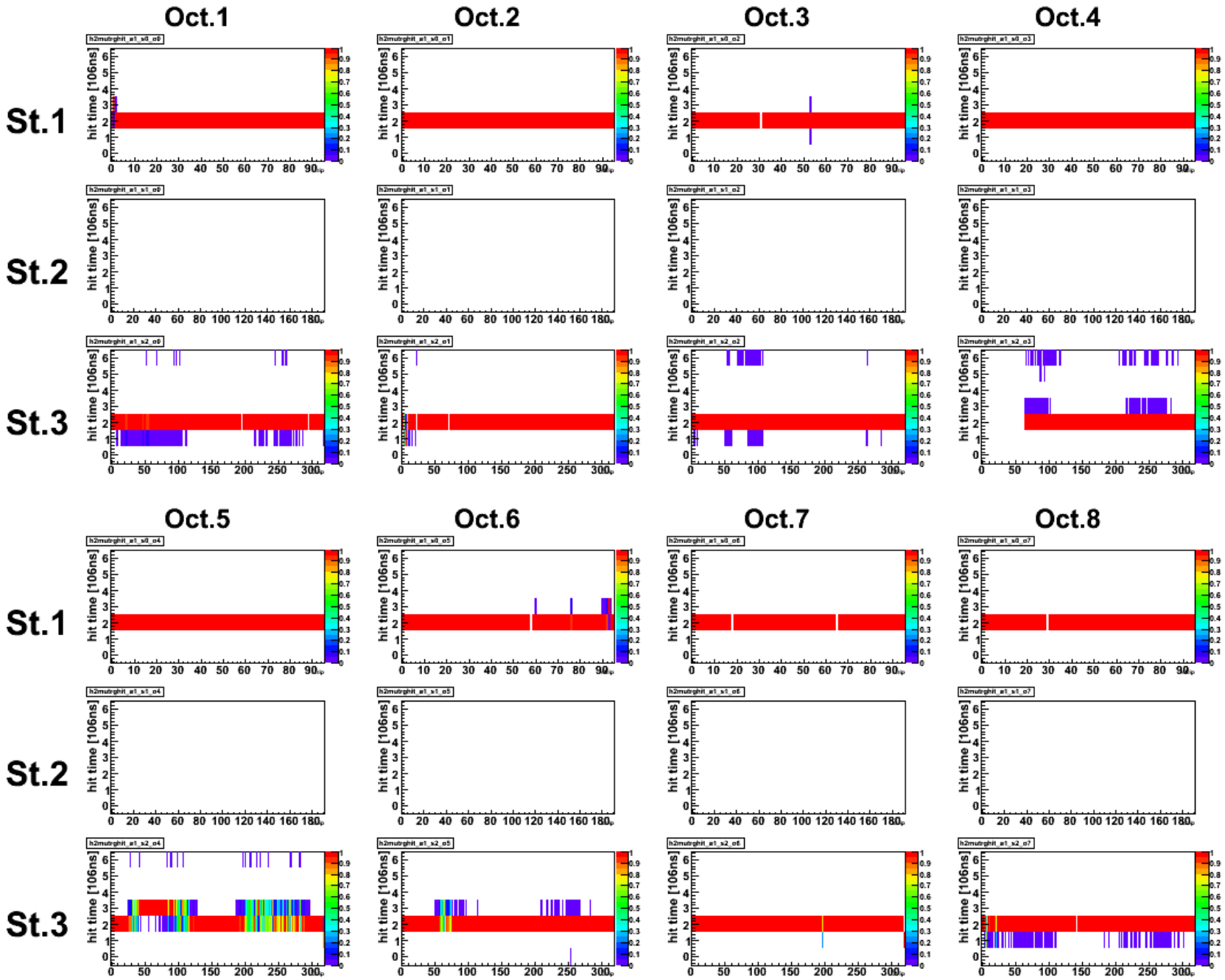


Black
10mV

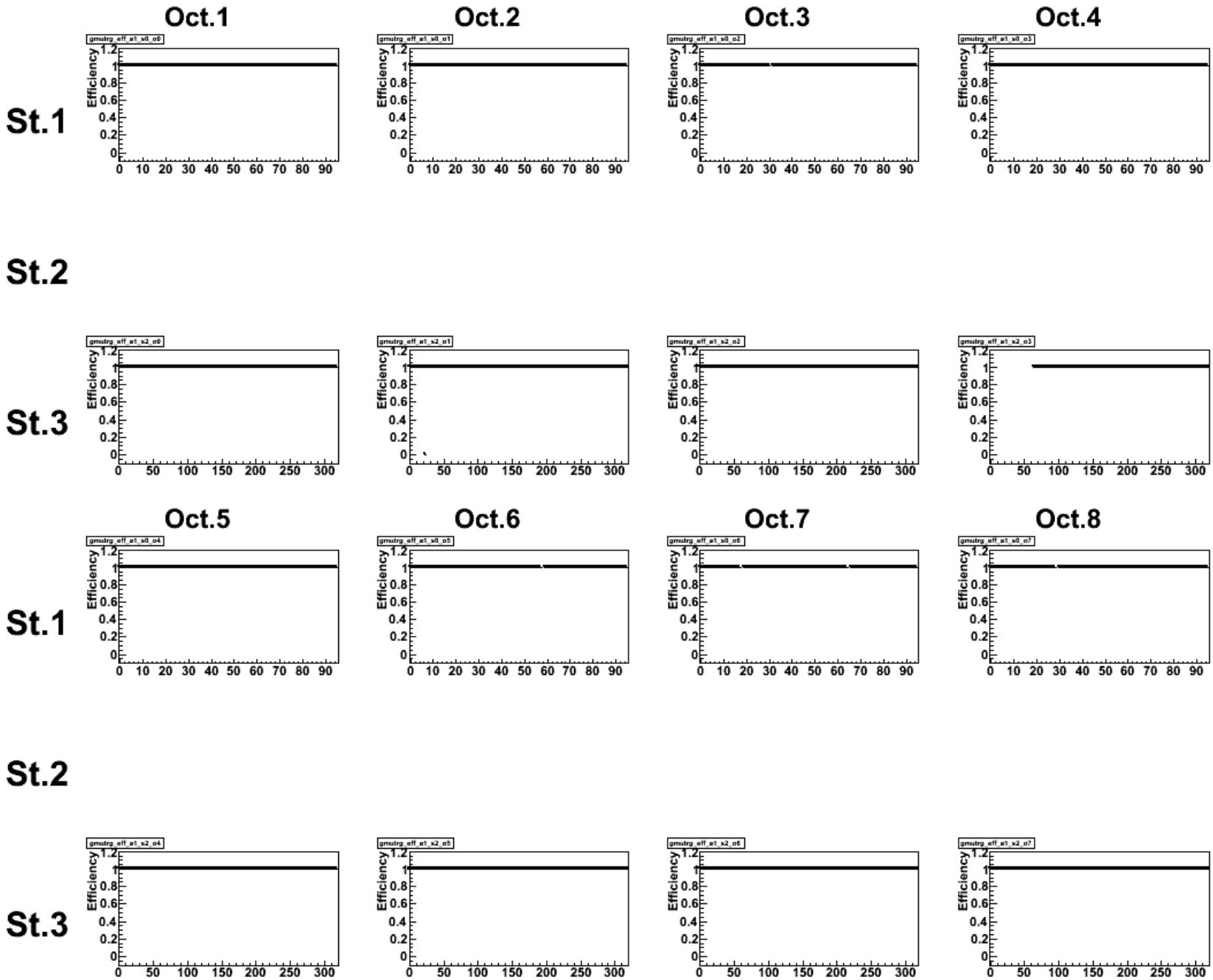
Red
20mV

Blue
30mV

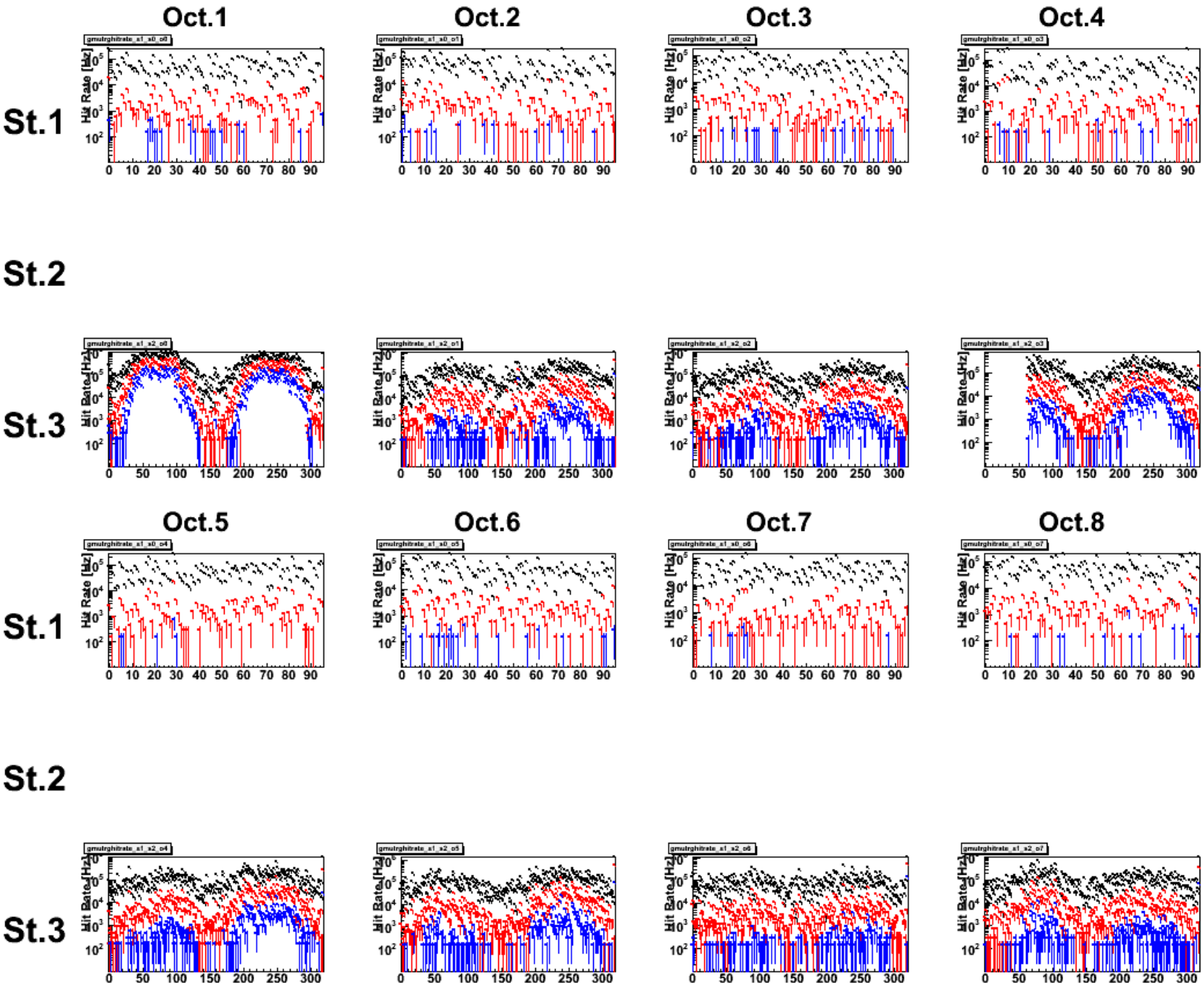
Hit Map (North Gap2)



Hit Efficiency (North Gap2)



Fake Hit Rate (North Gap2)

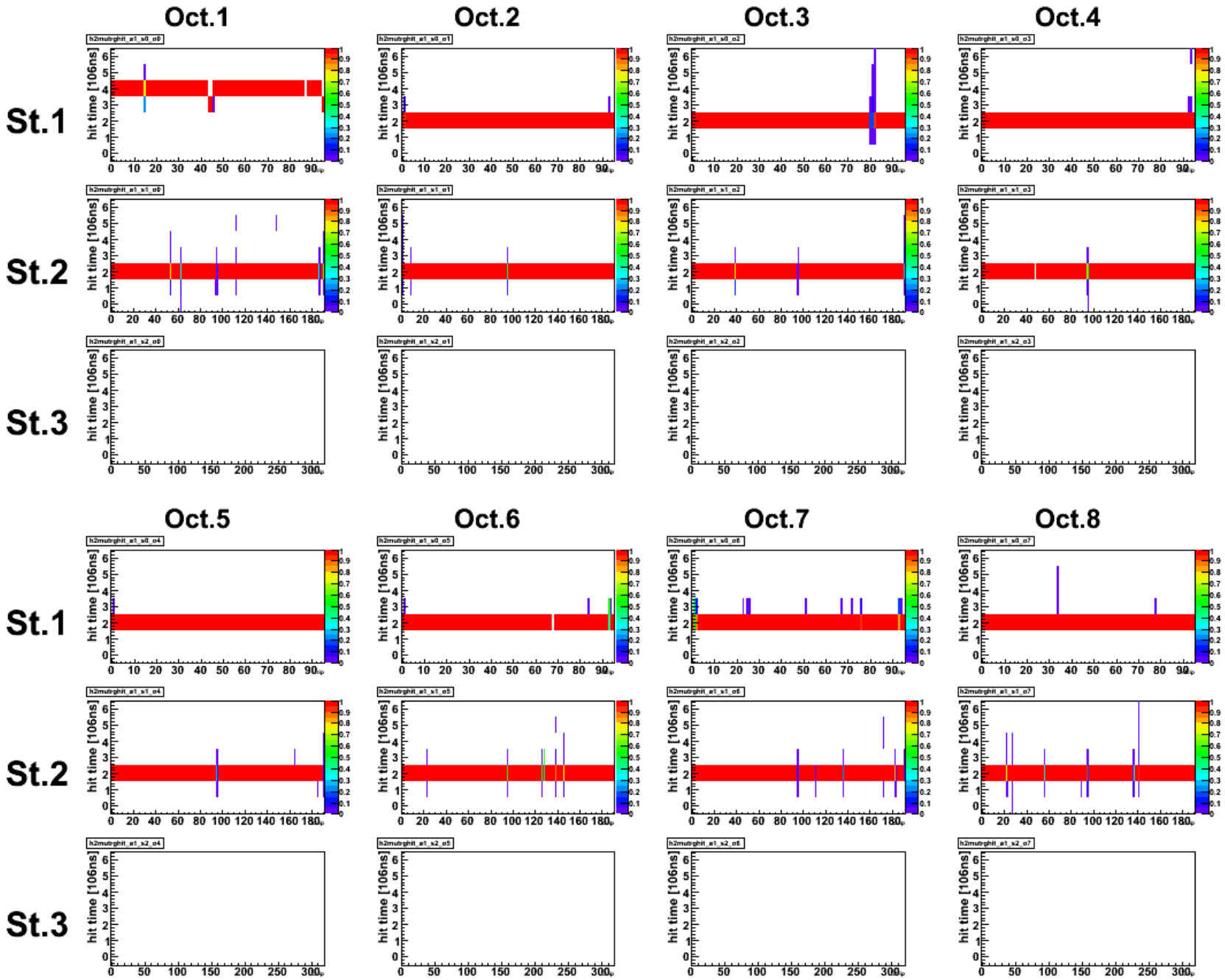


Black
10mV

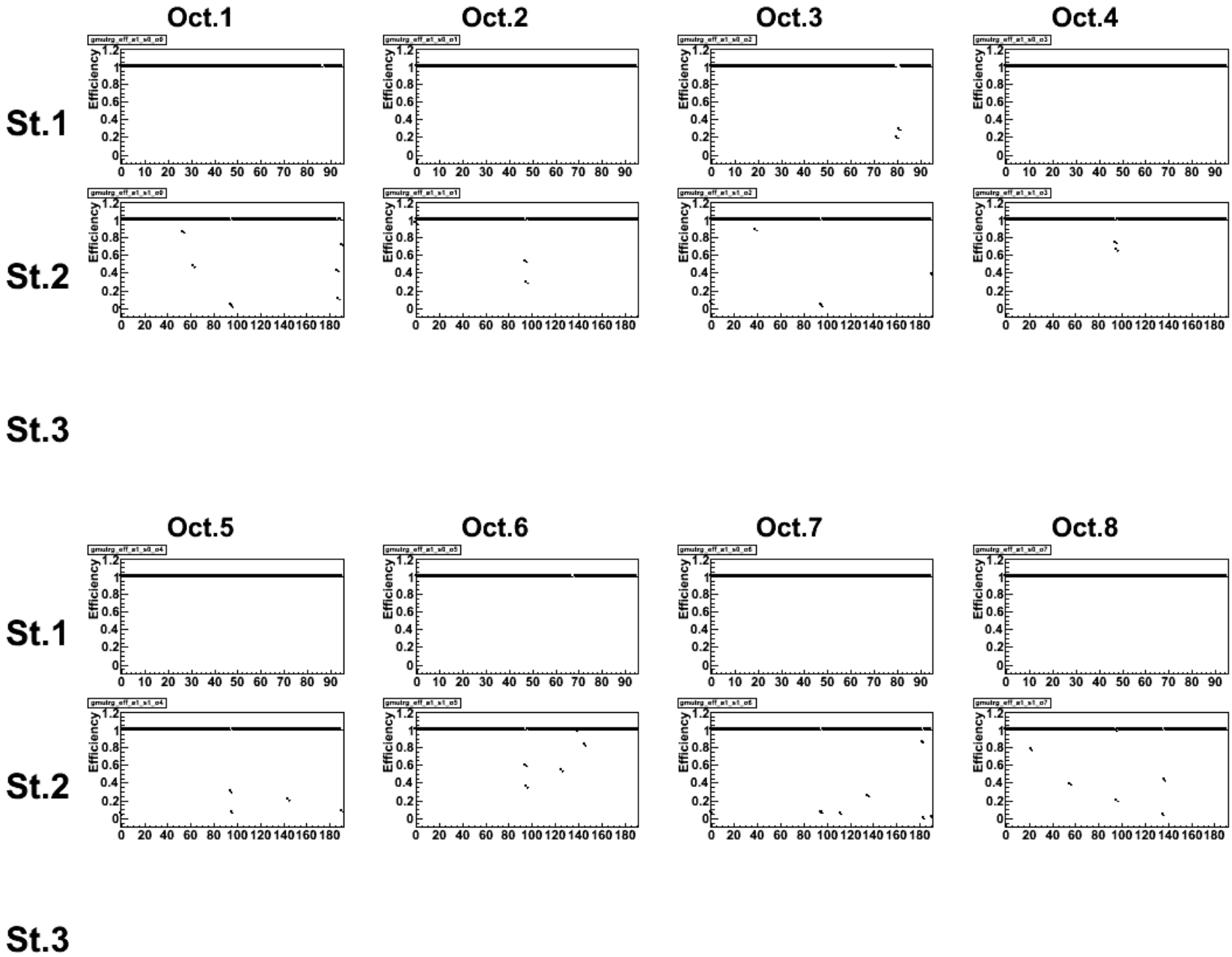
Red
20mV

Blue
30mV

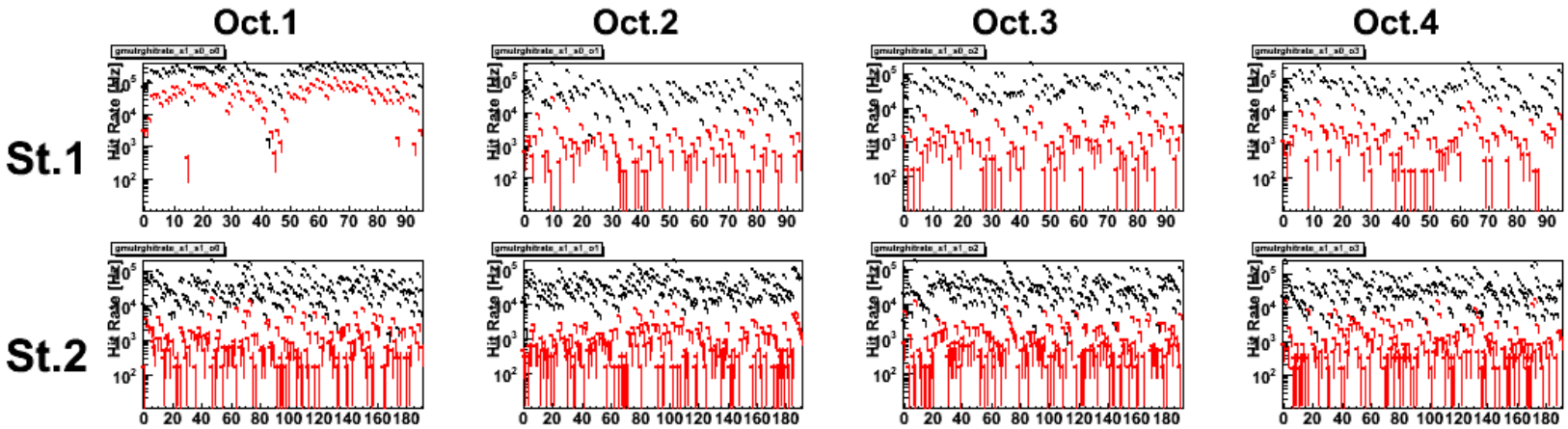
Hit Map (North Gap3)



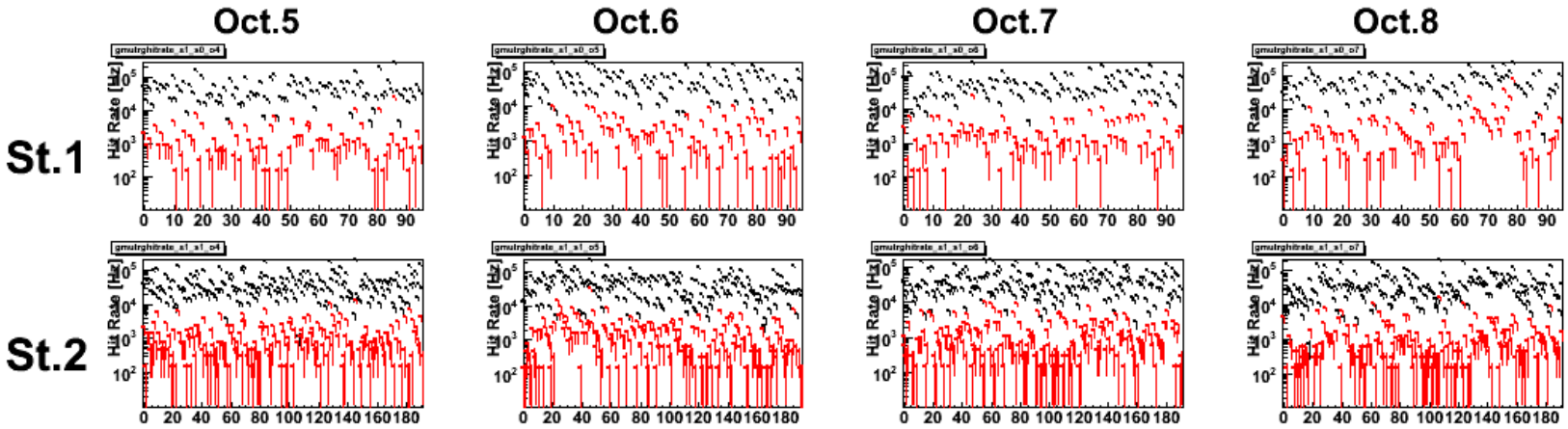
Hit Efficiency (North Gap3)



Fake Hit Rate (North Gap3)



Black
10mV

Red
20mV

Blue
30mV