GBO plan – Japan side

Yoshi Miyoshi and Keisuke Hosokawa

GBO support plan – Japan side

Static 100 Hz EMCCD ASIs:

2 stations GAK, PFRR Already deployed and operative

New EMCCD and sCMOS ASIs:

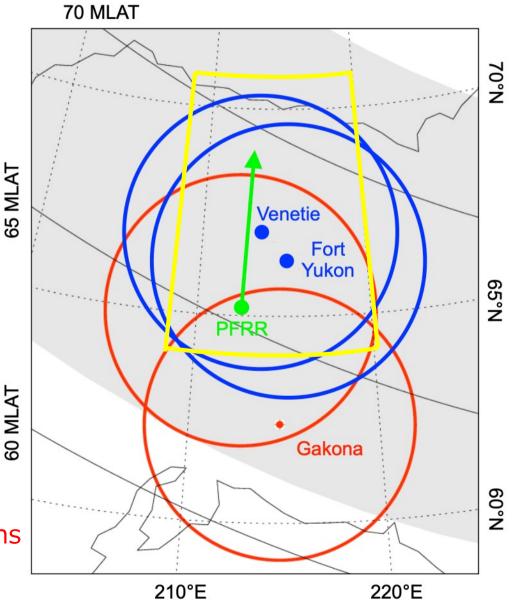
2 stations Venetie, Fort Yukon

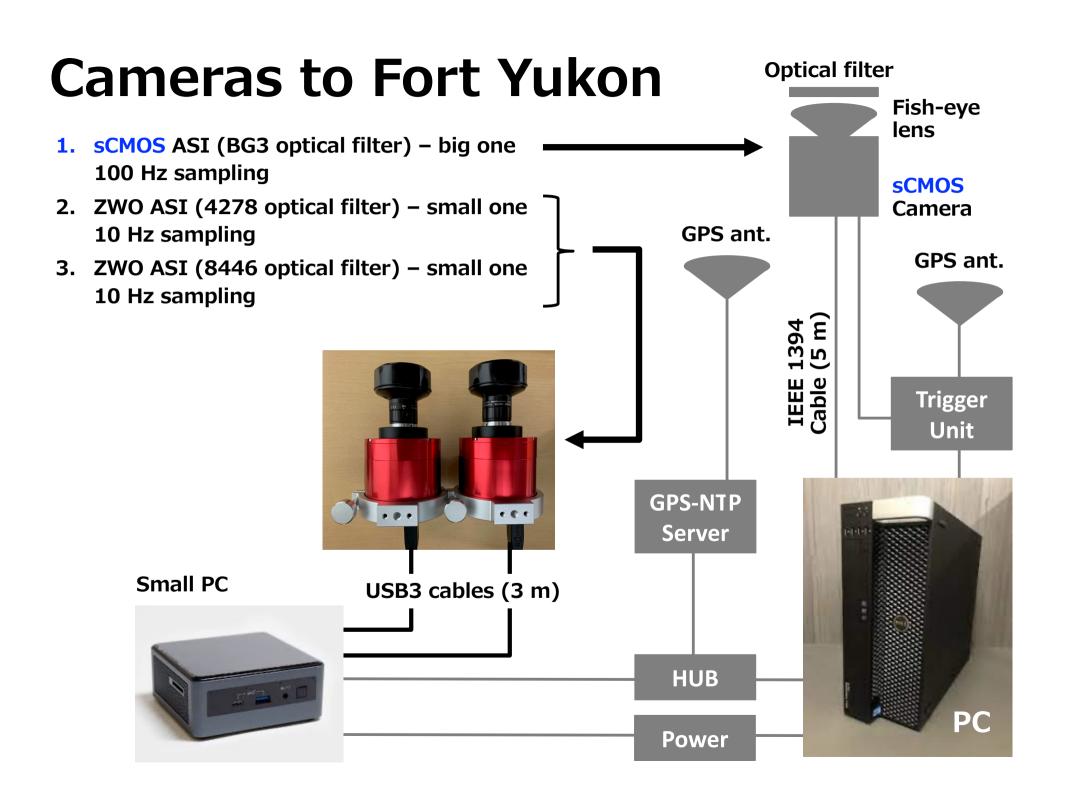
- → EMCCD ASI @ Venetie
- → sCMOS ASI @ Fort Yukon

Monochromatic twin-ASIs (ZWO):

2 stations Venetie, Fort Yukon

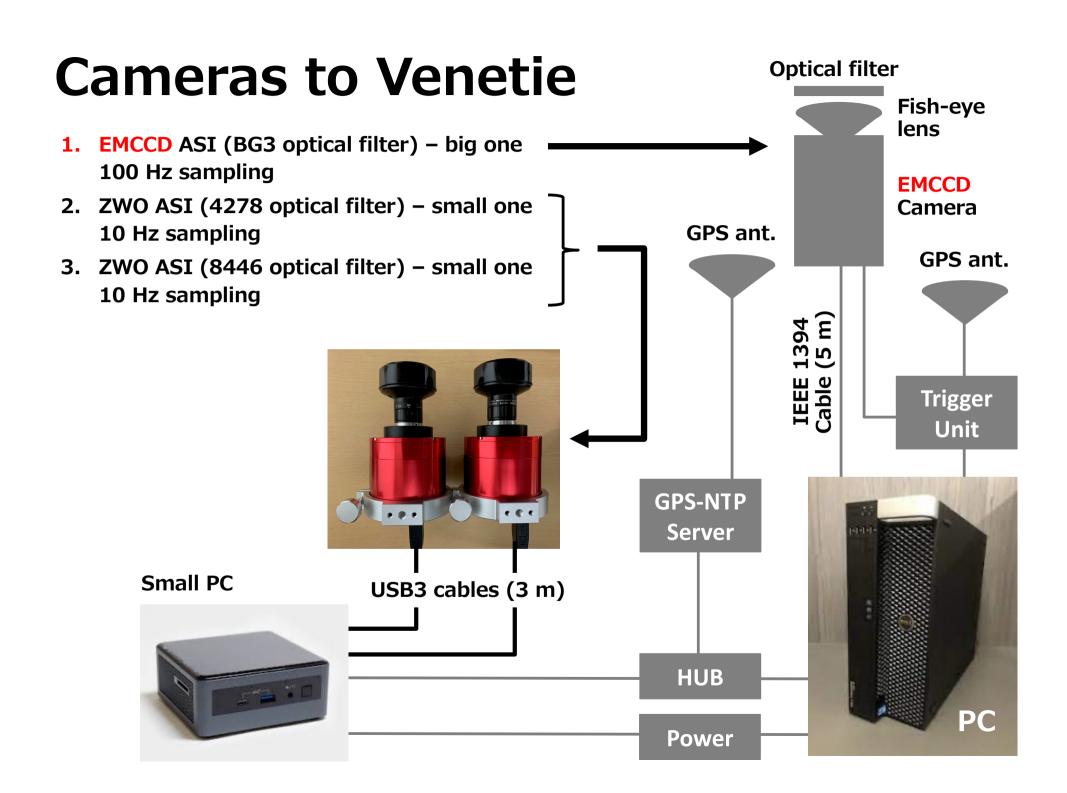
- → 427.8 nm, 844.6 nm
- → Derivation of the energy of electrons





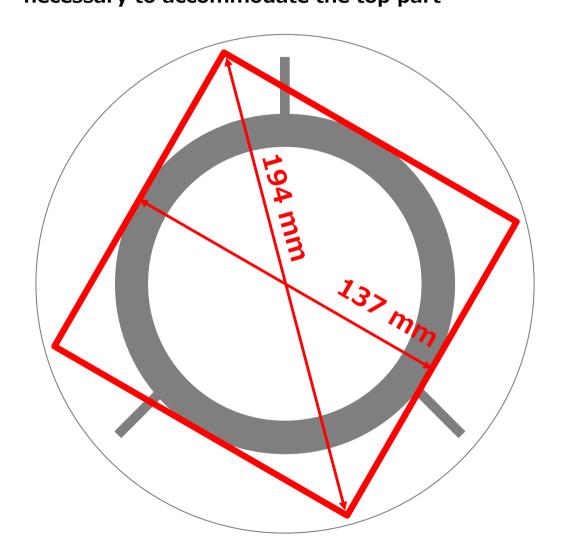
Cameras to Fort Yukon





Dome size – EMCCD ASI @ Venetie

Since we put the BG3 optical filter in front of the fish-eye lens, we would need a relatively larger optical dome to accommodate the top part of the system. 8-inch dome or larger is necessary to accommodate the top part





Dome size – ZWO ASIs @ Venetie

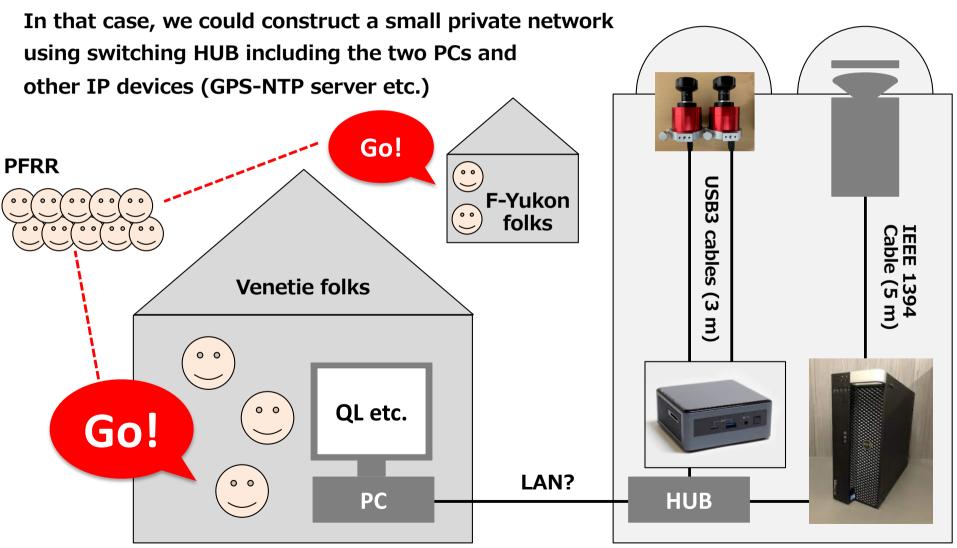
6-inch dome can accommodate one of the ZWO ASIs. But, it is difficult to have two ASIs in single 6-inch dome. So, we need two 6-inch domes or single 8-inch dome



Actual operation plan @ Venetie?

We hope to monitor the data from the ASIs from the trailer house.

The connection to the ASI housing would be LAN?



Things to ask Don

- How will the network environment at Venetie look like?
 Satellite network link or telephone?
- Is it possible to construct a small private network at Venetie?
 We will have at least 4 IP devices within the network:
 - 1. PC for EMCCD
 - 2. PC for small ASIs
 - 3. monitoring PC
 - 4. GPS-NTP server
- Is it feasible to use LAN (ethernet) cable for connection between the trailer house and the ASI housing?
- Is it possible to prepare over 8-inch domes?
- Do you think UPS is necessary?