

Description of standard instrumental modules at KHO

F. Sigernes and J. M. Holmes

The University Centre in Svalbard (UNIS)

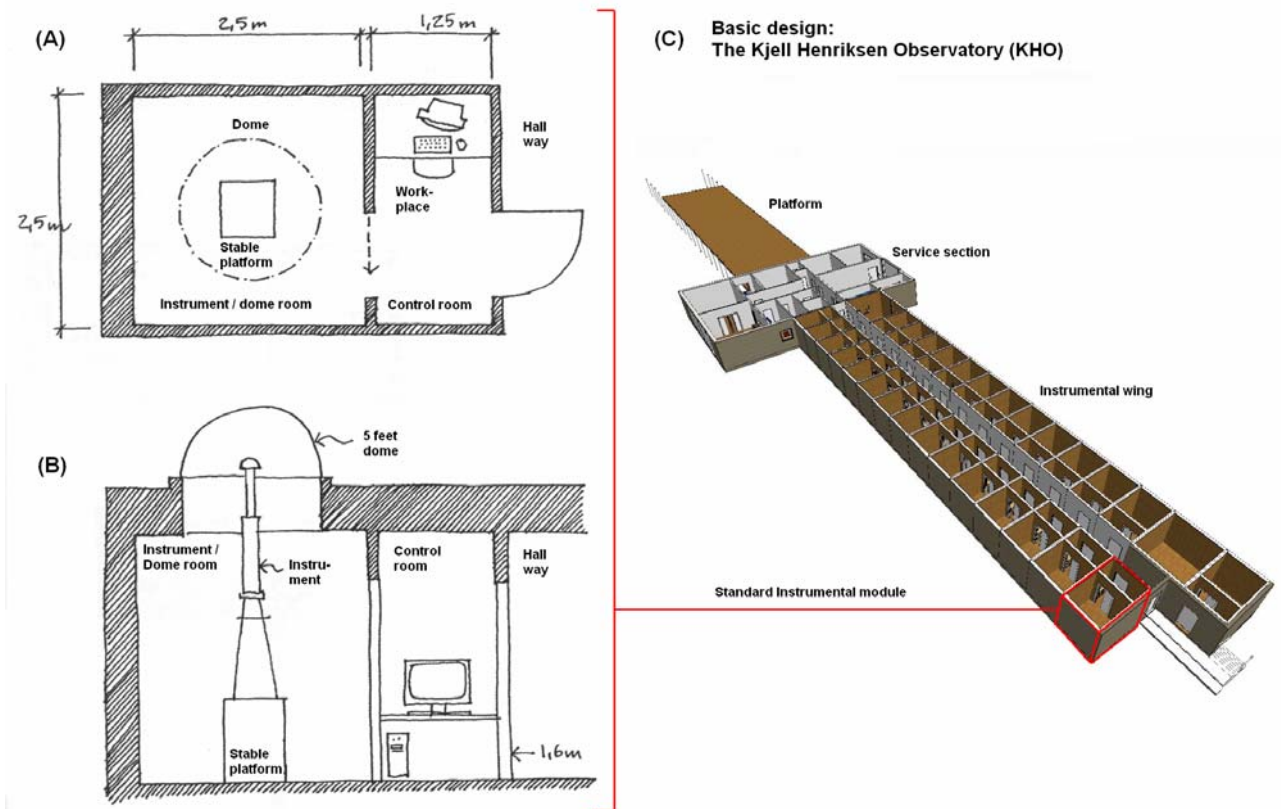


Figure 1: The basic design of the Kjell Henriksen Observatory. (A) is top view of and (B) side view of instrumental module. (C) 3D sketch of KHO.

The standard instrument modules at KHO contain two rooms: the Instrumental and the control / dome room. See above figure for top and side view of the module. A description of each room is given in the next sections.

1. Control room

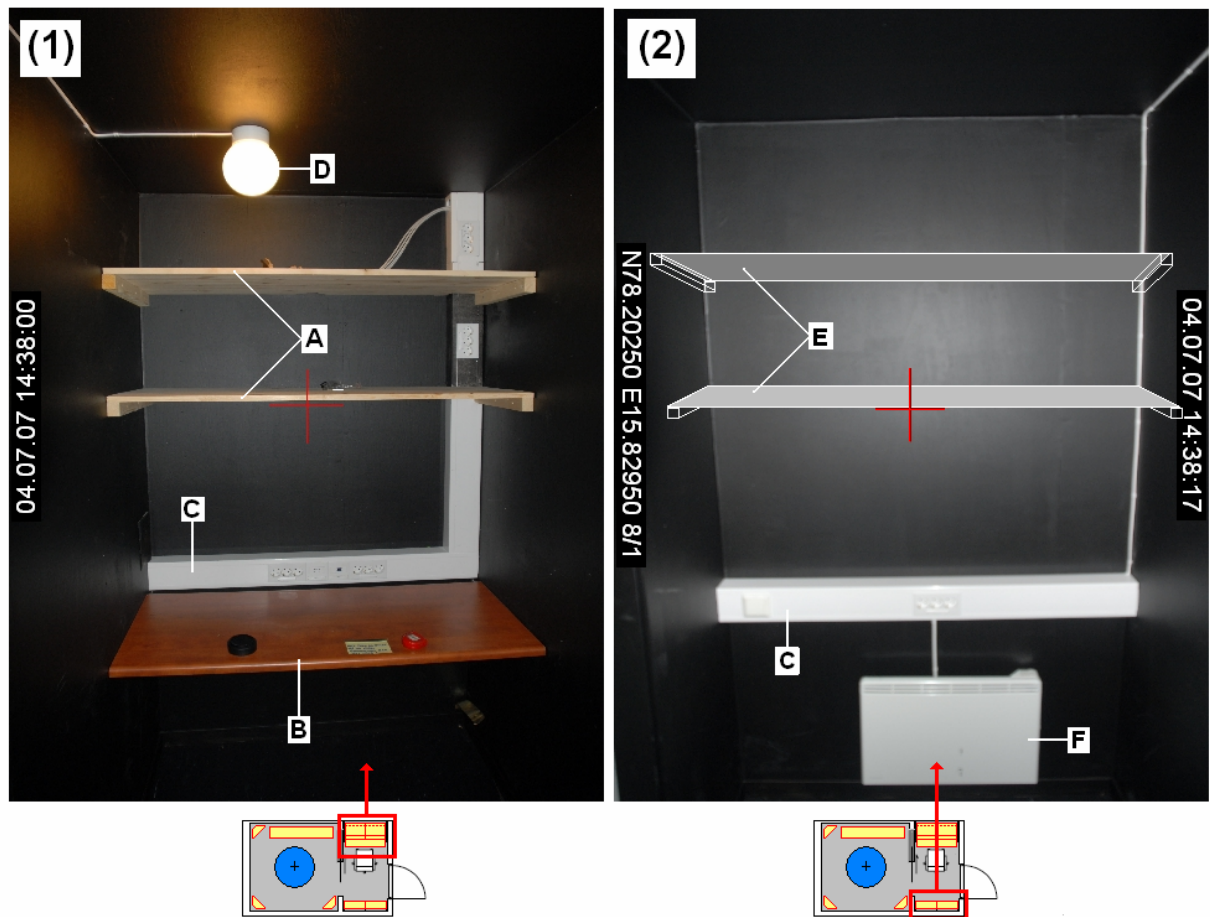


Figure 2: Image of standard control room. (1) and (2) are walls opposite to each other, right and left walls entering the room from the hallway, respectively. (1): A – shelves, B – table / bench plate, C – cable gate, D – filament lamp, (2): E – shelves, and F – heater. The sketches below each image show position / view angle of camera.

Index	Number	Description	Dimension
A	2	Heavy duty shelves	470 x 1250
B	1	Bench- / table plate	500 x 1250
E	2	Shelves	300 x 1250

Note that all shelves are mounted 50 mm from wall due to cable gate and clearance. The bench plate is mounted correspondingly (100 mm from the wall).

2. Dome room

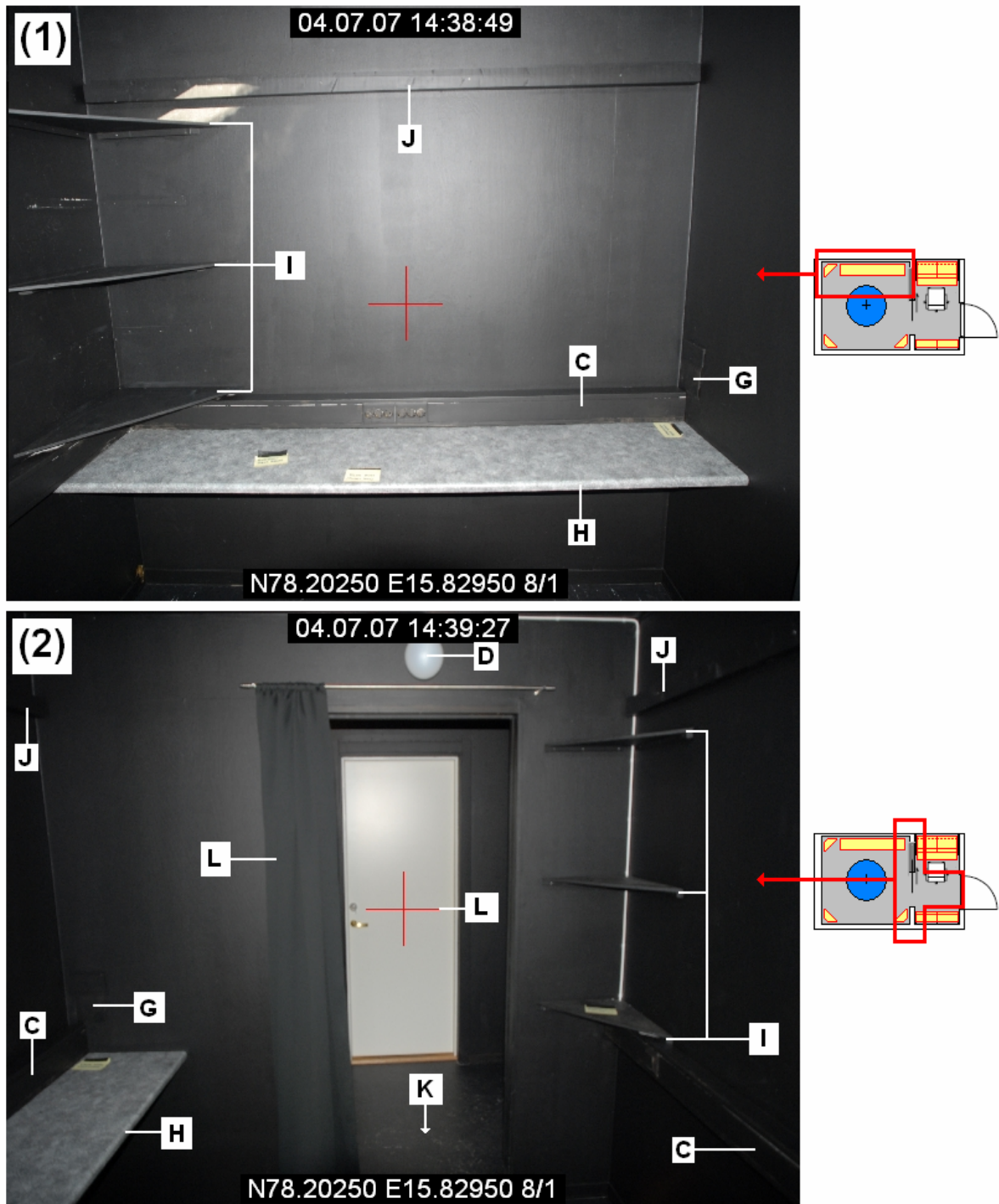


Figure 3: Dome room. C – cable gate, D – filament lamp, G – extra hole in wall for cables to control room, H – folding table (folds down under the cable gate), I – corner shelves (3-corners), J – heavy duty wood support for additional platform (horizontal studs), K – anti static floor, and L – black curtains mounted in front of sliding door. The sketches on the side of each image show position / view angle of camera.

Index	Number	Description	Dimension
G	1	Extra cable hole	Radius 50
H	1	Folding table	500 x 2500
I	9	Corner shelves	Short side 500
J	2	Heavy duty wood support	2500

Note that the extra cable hole to the control room, localized above the cable gate, is covered with a rubber sheath so that the room becomes light tight. The hole is a plastic tube of diameter 100 mm. The purpose of the curtain in front of the sliding door is to make sure that no light enters the room from the control room. The folding table is mounted under the cable gate so that it can be folded down when not in use. The table has the same length as the room.

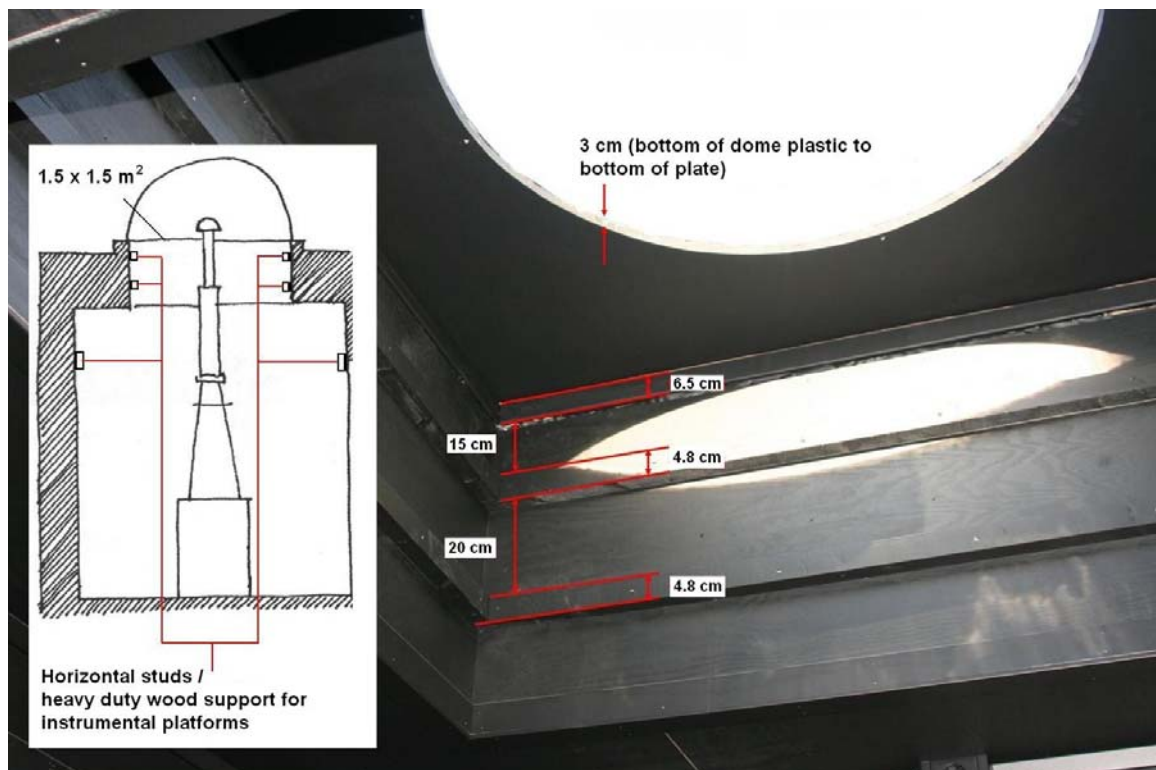


Figure 4: Instrumental studs / heavy wood support for instrumental platforms.

The instruments may be mounted under the dome by building platforms that are supported by heavy duty horizontal studs. The height levels of these studs are indicated in the above figure. The dome itself is mounted to a 1.5 x 1.5 m² lid. The lid is of standard size and is easily replaced if necessary.