

## LBC CRYOSTAT REMOVAL PROCEDURE

The following is a general procedure for the removal of the LBC cryostats from the telescope. This operation should be performed by an Instrument Specialist and a certified crane operator working in tandem.

1. Locate and install the proper lens cover for each channel before beginning any other step in the cryostat removal procedure.
2. Remove back cover and last section of LBC housing outer hub.
3. Rotate cryostat/camera assembly by hand to bring the shutter control box to the 12 o'clock position.
4. Unplug the following cables: controller box power and fiber optics (use hemostats to grab the square section of the fiber optic cables inside the casing), vacuum gauge, shutter box power and any RJ45 cables going to it, shutter box ribbon cable.
5. Attach crane cables to ring hooks on cryostat.
6. Attach crane support strap under narrow part of cryostat neck. The lengths of the cables and support strap should be about equal, or so that the cryostat will maintain a horizontal position when it is freed from its mounting.
7. Remove the 6mm bolts (qty. four for blue channel and six for red) that hold the cryostat to the mounting bracket. It is best to loosen all bolts so that they can be freed the rest of the way by fingers before removing any of them.
8. Pull straight out to free the cryostat from the support pins on the mounting bracket.
9. Secure any loose cabling with tie-wraps and replace section of hub and back cover.