

- (OP1) Eight well-known historical supernovae will appear in the projected sky one at a time (not necessarily in chronological order). 40

Identify the appropriate map (Map 1 / Map 2) where a particular supernova belongs and mark it in the corresponding map with a '+' sign. Write the code 'S1' to 'S8' beside **each** '+' sign.

Each supernova code will be projected on the dome for 10 seconds, followed by the appearance of the supernova for 60 seconds. There will then be 20 seconds for you to mark down your answer.

(OP1.1) For S1, S2, S3, S4 and S5, the projected sky corresponds to the sky as seen from Rio de Janeiro on the midnight of 21st May.

(OP1.2) For S6, S7 and S8, the projected sky corresponds to the sky as seen from Beijing on the midnight of 20th November. There will be a gap of two minutes after S5 for change over and adaptation to new sky.

- (OP2) We are now projecting the sky of another planet. The sky will be slowly rotated for 5 minutes. 10

Identify the visible celestial pole of this planet, mark it with a '+' sign and label it as 'P' on the appropriate map (Map 1 / Map 2).