

APPENDIX D

THE TRIAL OVERFLIGHT

Aircraft: CCRS Convair 580

Duration of overflight: 3 hours, 05 minutes

Weather: about 25 kilometres visibility
cloud cover, in some places 6/8 overcast
snow cover on the ground
ground temperature of -25°C

Sensor types: synthetic aperture radar (SAR)
metric camera (Wild RC-10)
low light level TV

SAR: C band, two polarizations (HH, HV)
data registration: HDDT, hard copy
spatial resolution: 6 metres x 6 metres
swath width: 16 kilometres, 8 kilometre half-swath recorded
altitude: 20,800 feet AGL
ground speed: 200 knots

AREAS

Trenton: Flight line 1, airport
Pickering: Flight line 2, nuclear power plant
Oshawa: Flight line 2, GM car factory
Ottawa: Flight line 3, Rockcliffe airfield, Ottawa
International Airport

Metric camera: Wild RC-10, modified by CCRS
(video operating, external navigation data
recording on film)
film type: AGFA 150
focal length: 152 millimetre
frame size: 23 centimetre x 23 centimetre
calibration according to Canadian National Standard