



Australian Government

Geoscience Australia

Ingest method for UNIX operators, CCRS (BIL) tapes

Geoscience Australia

Ingest Method for UNIX Operators of Data from Geoscience Australia CCRS (BIL) Tapes

File 1: Volume File - 5 records, each 360 bytes

UNIX command

```
dd if=<device_name (no-rewind)> of=file1 bs=360
```

Record 3 - File pointer to imagery file (file 3)	Bytes
Number of records in file 3:	101-108
Number of bytes/record in file 3:	117-124

File 2: Leader File

UNIX command

```
dd if=<device_name (no-rewind)> of=file2 bs=4320 (TM)
dd if=<device_name (no-rewind)> of=file2 bs=6120 (SPOT)
dd if=<device_name (no-rewind)> of=file2 bs=1800 (MSS)
```

Record 2 - Header	Bytes
Satellite type:	309-324
Sensor type	325-340
WRS/GRS identifier:	165-180
Scene date and time:	117-148
Number of bands:	1413-1428 (TM, MSS) 1653-1716 (SPOT)
Number of pixels:	1429-1444 (TM, MSS)
Number of lines:	1445-1460 (TM, MSS)
View angle:	3069-3084 (SPOT)

Record 3 - Map projection	Bytes
Pixel size:	365-396 181-212 (MSS)
Upper left corner(Map):	637-668 581-612 (MSS)
Upper left corner (Geodetic):	765-796 709-740 (MSS)
UTM datum and zone:	397-412 213-228 (MSS)
Geoid designator:	1261-1276 (SPOT)

File 3: Imagery File

UNIX command

```
dd if=<device_name> of=file3 bs=(file 1, record 3, bytes 117-124)
```

Record 1 - File descriptor

	Bytes
Number of bands:	233-236
Number of lines:	237-244
Number of pixels:	249-256

Geoscience Australia CCRS (BIL) Tapes

File 1: Volume directory file - record length 360 bytes

- Record 1: Volume descriptor
- Record 2: File pointer to leader file
- Record 3: File pointer to imagery file
- Record 4: File pointer to trailer file
- Record 5: Text

File 2: Leader file - record length 4320 bytes (TM) - record length 6120 bytes (SPOT) - record length 1800 bytes (MSS)

- Record 1: File descriptor
- Record 2: Header
- Record 3: Map projection
- Record 4: Radiometric

