Spatial Resolution and Satellite Scene Swath

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Geog 581







Instantaneous Field of View

 IFOV= The area on the ground that is viewed by the instrument from a given altitude at any time.

$$\alpha = \frac{D}{H}$$



























IFOV fo	or AVHRR
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Table 3.0.1-1. Spectral band widths (micrometers) of the AVHRR.						
Channel #	TIROS-N	NOAA-6,-8, -10	NOAA-7,-9, -11,-12,-14	NOAA-13	IFOV (mr)	
1	0.55-0.90	0.58-0.68	0.58-0.68	0.58-0.68	1.39	
2	0.725-1.10	0.725-1.10	0.725-1.10	0.725-1.0	1.41	
3	3.55-3.93	3.55-3.93	3.55-3.93	3.55-3.93	1.51	
4	10.5-11.5	10.5-11.5	10.3-11.3	10.3-11.3	1.41	
5	Channel 4 repeated	Channel 4 repeated	11.5-12.5	11.4-12.4	1.30	

http://www2.ncdc.noaa.gov/docs/podug/html/c3/sec3-0.htm























