

CLASS -2



Landscape analysis through Maps

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What are the essential elements for a topographic maps reading?

-Knowledge of the numbering scheme,

-Locational aspects,

-The conventional signs and symbols,

-The elevation and slope of the terrain,

-The methods of their representation are very essential for comprehending topographic maps.



Survey of India

The official agency responsible for the preparation of topographic maps in our country is the Survey of India with its headquarters at Dehradun. In India, the topographic maps are prepared in scales 1 : 1000000, 1 : 250000, 1 : 50000 and 1 : 25000 for various purposes. Survey of India made topographical maps for all the places in India. The topographic maps prepared in India are generally known as the 'Survey of India Maps' (SOI maps).

Layout and numbering of toposheets

-Toposheets for the whole world have been prepared in several sheets of same size and shape.

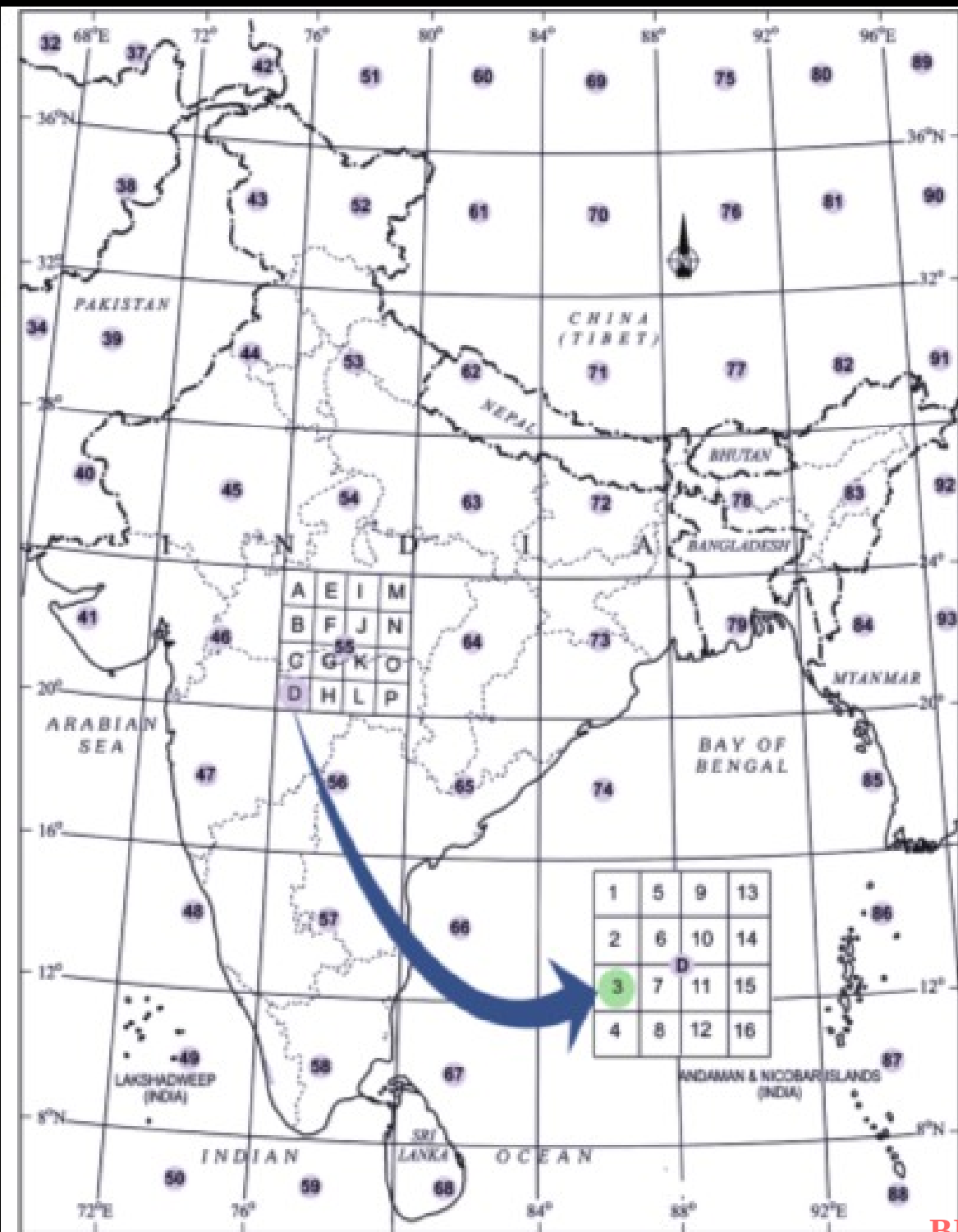
-The whole world is picturised in 2222 sheets as follows.

-There are 1800 sheets for regions between 60° North and South latitudes.

-420 sheets for regions between 60° and 88° latitudes in both hemispheres and 2 sheets for both the poles.

-The numbering of India's toposheets are done on the basis of the India and Adjoining Countries Map Series.

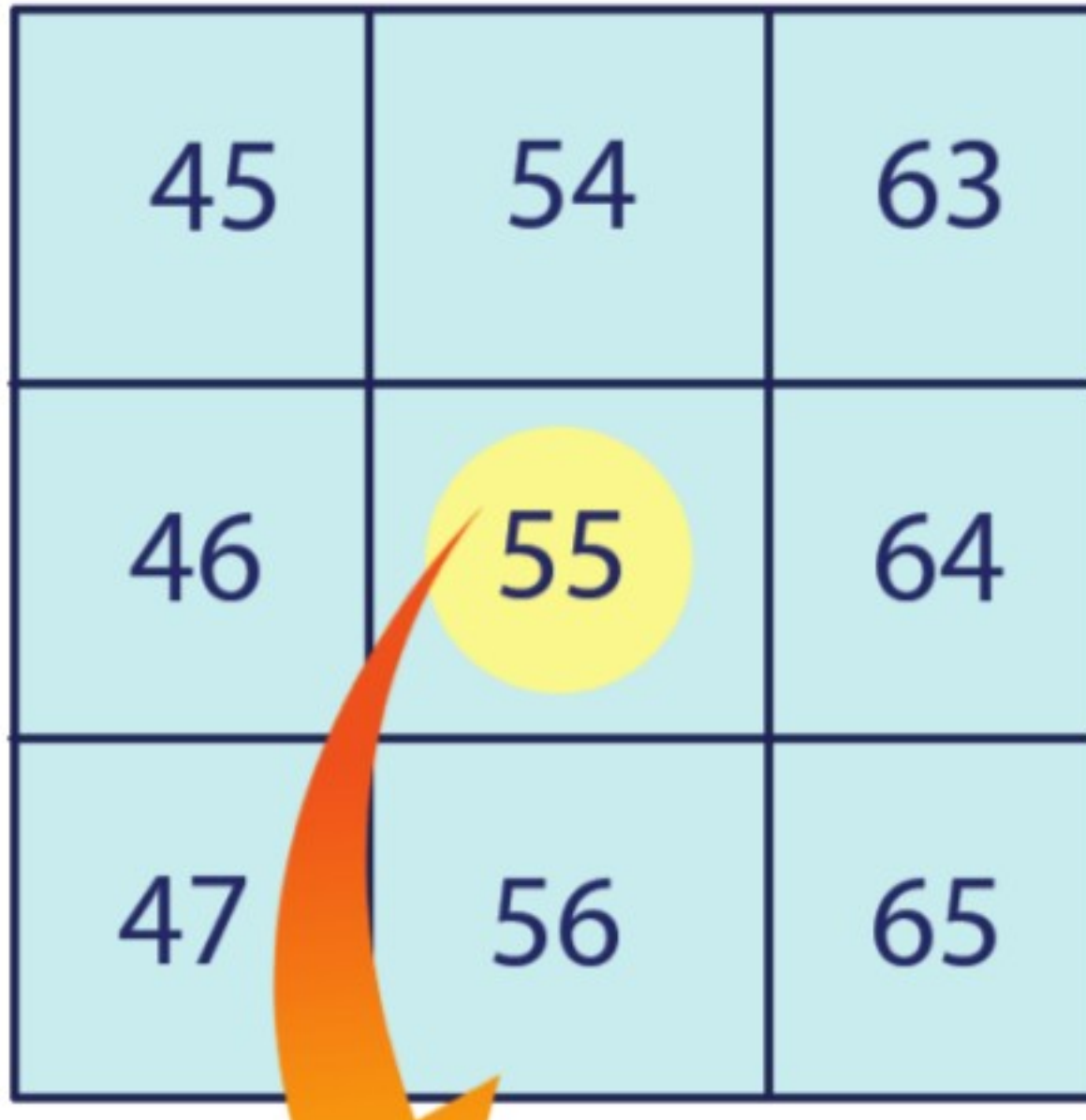
-As each of the maps in this series is in 1:1000000 scale, these are known as million sheets.



Million sheets

Million sheets

45	54	63
46	55	64
47	56	65



Million sheets

- Each of the maps in troposheets is in 1:1000000 scale.
- These are known as million sheets.
- The million sheets covering 4° latitudinal and 4° longitudinal extent are given numbers from 1 to 105.
- These numbers are known as index numbers(55).

45	54	63
46	55	64
47	56	65

Fig. 4.3

Degree sheets
55

A	E	I	M
B	F	J	N
C	G	K	O
D	H	L	P

Degree sheets

Degree sheets

-Each million sheet is divided into 16 parts in the order A, B, C, D, up to P.

-For example, the million sheet numbered 55 is divided into 16 parts as 55A, 55B, 55C, etc.

-Each of these sheets with 1° latitudinal and longitudinal extent is prepared in 1:250000 scale.

-These sheets are prepared in 1:250000 scale.

A	E	I	M
B	F	J	N
C	G	K	O
D	H	L	P

Fig. 4.4



55D

1	5	9	13
2	6	10	14
3	7	11	15
4	8	12	16

Minutes sheets

1	5	9	13
2	6	10	14
3	7	11	15
4	8	12	16

Fig. 4.5

55

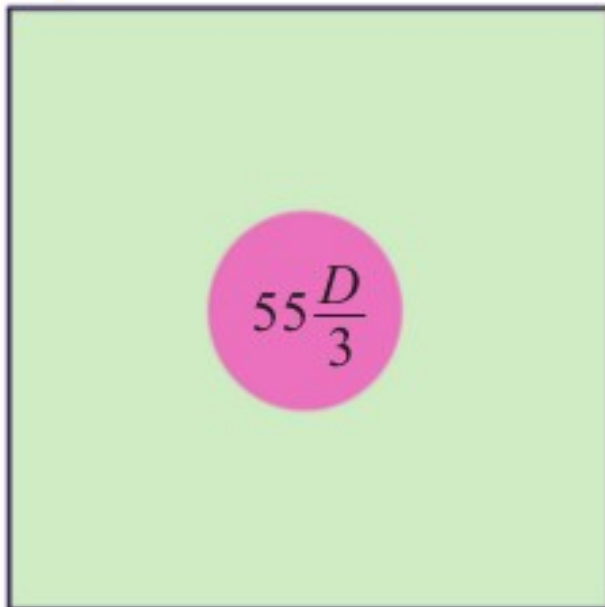


Fig. 4.6

Minutes sheets

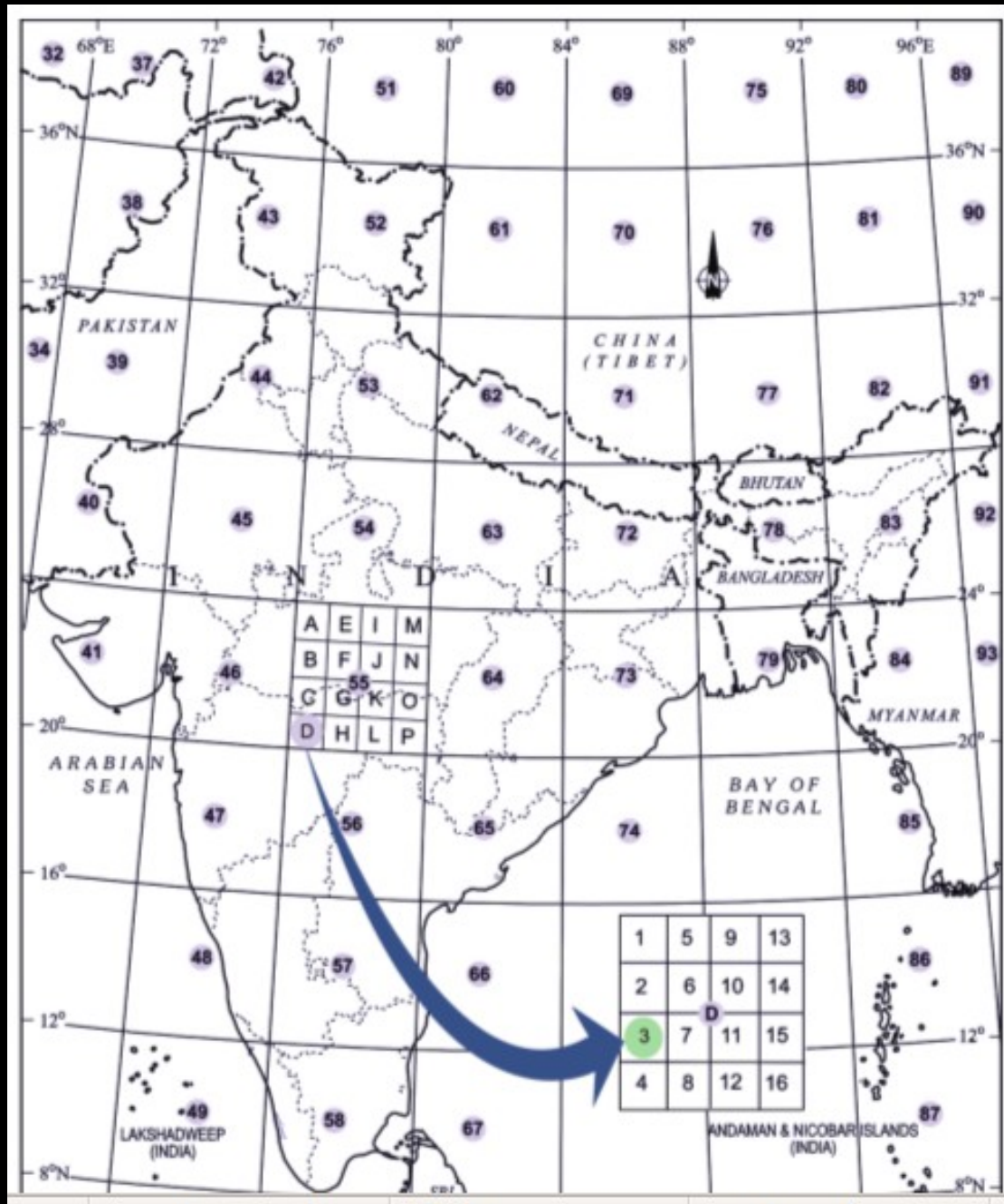
Minutes sheets

-Degree sheets are divided into 16 parts and each has 15 minutes longitude and longitude.

-These are Minutes sheets.

-Minutes sheets are numbered as 1, 2, 3, ... 16 (55D/1, 55D/2,.....55D/16).

-These sheets are prepared in 1 : 50000 scale.



- The parts of states that are included in toposheet number 45. **Rajasthan, Madhyapradesh, Gujarath**
- The index numbers of toposheets which cover the state of Odisha. **64, 65, 73**
- The states that are included in toposheet number 73.
Chattisgarh, Jharkhand, Odisha, Paschin Benga
- The index numbers of toposheets which cover the state of Karnataka. **47, 48, 56, 57, 58**
- The index numbers of toposheets which cover kerala.
48 49, 56, 58

ALL THE BEST

BY

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