

# List of Figures

Fig. 2.1	Rainfall distribution of the Panchet Forest Division from 2005 to 2009.....	24
Fig. 2.2	Temperature distribution of the Panchet Forest Division in 2005–2009 .....	24
Fig. 3.1	Ecological survey at Bishnupur—transect A .....	69
Fig. 3.2	Ecological survey at Bishnupur—transect E .....	69
Fig. 3.3	Ecological survey at Dalma—foothill .....	70
Fig. 3.4	Ecological survey at Dalma—middle hill.....	70
Fig. 3.5	Ecological survey at Bankadaha—transect A .....	71
Fig. 3.6	(a) Temperature variation in Panchet Forest Division (PFD). (b) Rainfall distribution in PFD .....	72
Fig. 3.7	Duration of elephant stay at different stations in Belsulia village .....	73
Fig. 3.8	Duration of elephant stay at different stations in Basudevpur village .....	73
Fig. 3.9	Duration of elephant stay at different stations in Kharikasuli village.....	74
Fig. 3.10	Duration of elephant stay at different stations in Chougan village .....	74
Fig. 3.11	Duration of elephant stay at different stations in Siromonipur village .....	75
Fig. 3.12	Duration of elephant stay at different stations in Dhangapathar village .....	75
Fig. 3.13	Duration of elephant stay at different stations in Herapabat village .....	76
Fig. 3.14	Duration of elephant stay at different stations in Dhangasole village.....	76

Fig. 4.1	Ecological transect of different station, Bishnupur—F .....	87
Fig. 4.2	Ecological transect of different station, Bankadha—A.....	88
Fig. 4.3	Ecological transect of different station, Taldangra—H.....	88
Fig. 4.4	Percentages of canopy and ground cover.....	89
Fig. 4.5	Relationships between population density and forest cover.....	90
Fig. 4.6	Distances from forest edge and diameter at breast height (DBH).....	90
Fig. 4.7	Relation between forest edge and abundance of plant species .....	91
Fig. 4.8	Concentration of pond in forest core .....	91
Fig. 4.9	Motorable road ratio and abundance of plant species.....	91
Fig. 5.1	Preferences for habitat selection .....	100
Fig. 5.2	Trend of elephant migration in Panchet Forest Division in 1995–2012 .....	101
Fig. 5.3	Duration of stay at Panchet Forest Division in 1995–2012 .....	102
Fig. 5.4	Beat-wise elephant migration in Panchet Forest Division in 2008–2009 .....	117
Fig. 5.5	Volumes of migration and duration of stay of residential and migratory elephants, 2001–2012.....	118
Fig. 6.1	Landholding characteristics in Panchet Forest Division.....	123
Fig. 6.2	Land use category under different classes .....	123
Fig. 6.3	Human–elephant conflict and its consequences, 2003–2012.....	130
Fig. 6.4	Loss of property due to elephant depredation, 2003–2012.....	131
Fig. 6.5	Diurnal behaviour of elephant attack.....	132
Fig. 7.1	People’s attitude towards elephants .....	138
Fig. 7.2	Awareness notice issued by the forest department.....	143
Fig. 7.3	Elephant deaths in southern West Bengal since 1991 .....	144
Fig. 7.4	Different methods adopted by villagers to resist elephant attack ....	145
Fig. 8.1	Schematic representations of elephant landscape reserves.....	157



<http://www.springer.com/978-3-319-31161-6>

Man-Elephant Conflict

A Case Study from Forests in West Bengal, India

Das Chatterjee, N.

2016, XXIX, 179 p. 126 illus., 125 illus. in color.,

Softcover

ISBN: 978-3-319-31161-6