



**Visit of Government of India and G20 Presidency
In the frame of the Global Land Initiative**
Global Fire Monitoring Center (GFMC), 01 November 2023



Welcome to GFMC and Freiburg



The Global Fire Monitoring Center (GFMC)

GFMC in India – the mid-1980s (I)

Chandrapur 1986 – Socio-economics and of fire



GFMC in India – the mid-1980s (II)

Chandrapur 1986 – Fire behaviour experiments



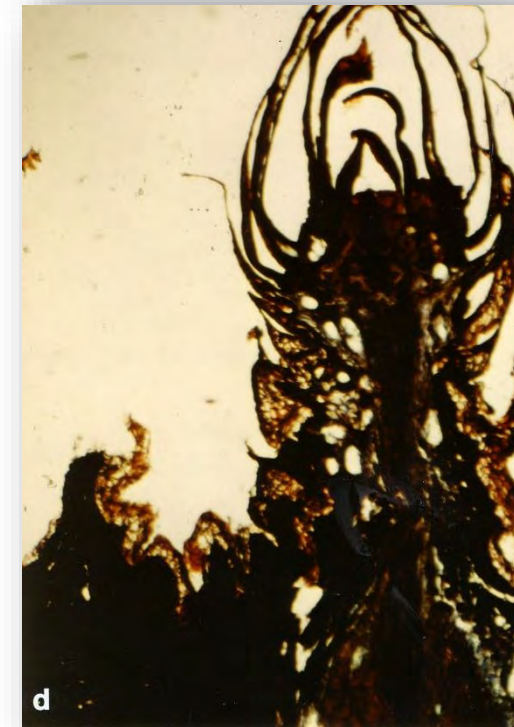
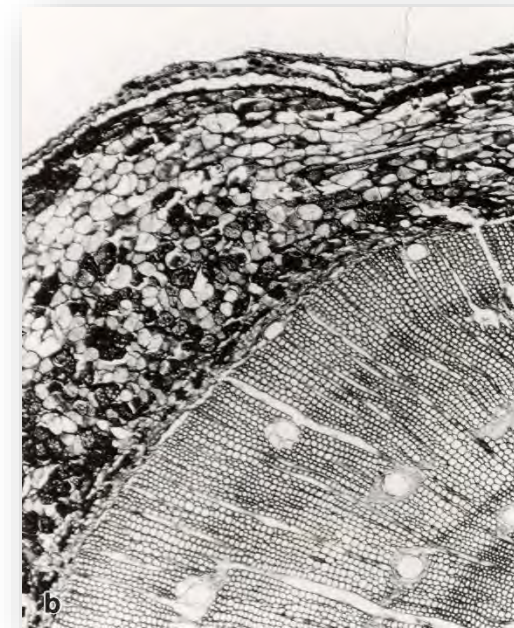
GFMC in India – the mid-1980s (III)

Uttar Pradesh 1986 – Post-fire



GFMC in India – the mid-1980s (IV)

Nainital 1986 – Survival strategies (*P. roxburghii*)



GFMC in India – the mid-1980s (VI)

India / FAO 1986 – Statistical forest fire reporting

FO: DP/IND/84/003
Technical Report No.1

MODERN FOREST FIRE CONTROL

I N D I A

STATISTICAL FOREST FIRE REPORTING

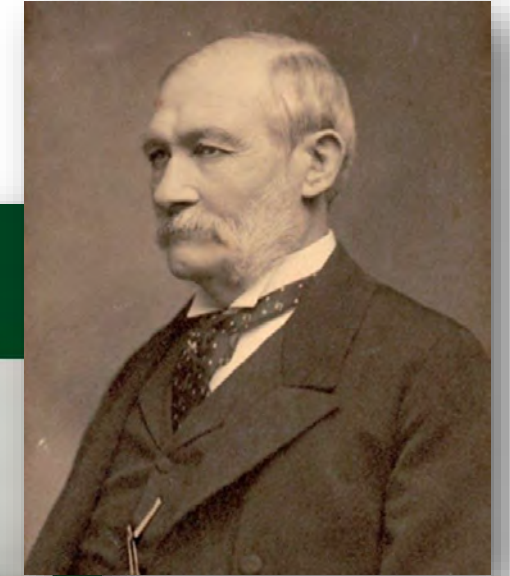
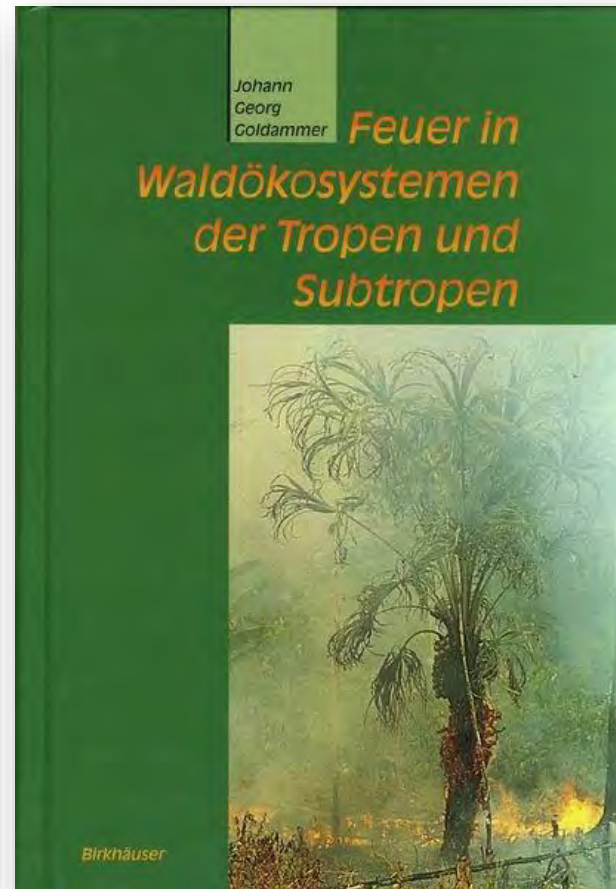
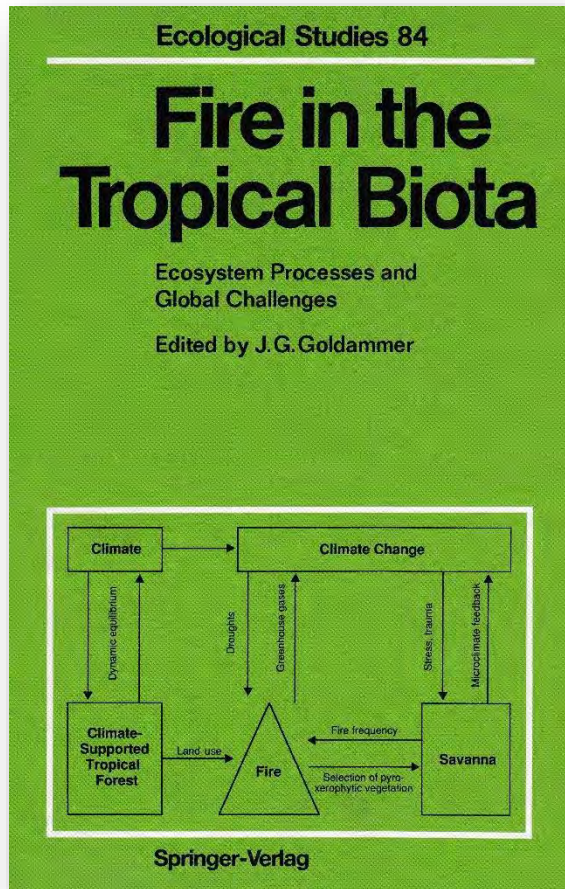
GFMC in India – the mid-1980s (VI)

India / FAO 1986 – Statistical forest fire reporting

1 FIRE NUMBER		2 LOCALITY: STATE/ UNION		3 DIVISION		4 BLOCK		5 COMPARTMENT		6 GRID LOCATION LAT <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				7 DATE D <input type="text"/> M <input type="text"/> Y <input type="text"/>					
8 WEEKDAY		9 TIME OF IGNITION		10 DETECTION		11 REPORTING		12 DEPARTURE		13 INITIAL ATTACK		14 CONTROL (DAY)		15 MOP-UP		16 MEANS OF EXTINCTION		17 CAUSE OF FIRE	
18 WEATHER: TEMPERATURE <input type="text"/> °C				19 RELATIVE HUMIDITY <input type="text"/> %				20 WIND DIR. <input type="text"/> SPEED <input type="text"/> km/h				21 IGNITION INDEX <input type="text"/>		22 SPREAD INDEX <input type="text"/>		23 FIRE LOAD INDEX <input type="text"/>		24 TOPOGRAPHY: GENERAL TYPE <input type="text"/>	
25 ELEVATION <input type="text"/> m		26 ASPECT <input type="text"/>		27 SLOPE CLASS <input type="text"/>		28 ORIGIN OF FIRE <input type="text"/>		29 FIRE BEHAVIOUR: TYPE OF FIRE <input type="text"/>		30 MOVEMENT OF FIRE <input type="text"/>		31 SPOTTING DISTANCE <input type="text"/>		32 FUEL TYPE <input type="text"/>		33 FUEL BURNED <input type="text"/>			
34 SUPPRESSION: NUMBER OF PERSONNEL INVOLVED														35 PERSONNEL TRANSPORT		36 METHODS AND EQUIPMENT			
37 SIZE OF AREA BURNED: NON-FOREST LAND														38 COMMERCIAL FOREST LAND: PLANTATIONS		39 OTHER COMMERCIAL AND NON-COMMERCIAL FOREST LAND (NATURAL FOREST)			
GRASSLAND <input type="text"/> ha		BRUSH/WIDE LAND <input type="text"/> ha		SA - TOTAL <input type="text"/> ha		CONIFEROUS <input type="text"/> ha		NON-CONIFEROUS <input type="text"/> ha		ha-TOTAL <input type="text"/>		CONIFEROUS <input type="text"/> ha		NON-CONIFEROUS <input type="text"/> ha		ha-TOTAL <input type="text"/>			
CONIFEROUS <input type="text"/> ha		NON-CONIFEROUS <input type="text"/> ha		ha - TOTAL <input type="text"/>		THEREOF RESERVED <input type="text"/> ha		PROTECTED <input type="text"/> ha											
40 DAMAGE: PLANTATIONS UP TO 5 YEARS				41 DAMAGE: FORESTS/PLANTATIONS OLDER THAN 5 YEARS (LOSS OF TIMBER)															
SPECIES		AGE(YEARS)		AREA (ha)		TOTAL COSTS OF REGENERATION (Rs)		SPECIES		DIAMETER CLASS		NUMBER OF TREES		VOLUME (cu.m.)		COSTS OF DAMAGE (Rs) (PRESENT VALUE)		PRICE OBTAINED FOR SALVAGED TIMBER (Rs)	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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42 OTHER TANGIBLE LOSSES: DESTROYED NATURAL REGENERATION <input type="text"/> ha				43 MINOR FOREST PRODUCTS TYPE <input type="text"/> ESTIMATED QUANTITY (mts) <input type="text"/>				44 OTHER INJURIES: LOSS OF LIVESTOCK <input type="text"/>				45 LOSS OF PROPERTY <input type="text"/> Rs							
46 INTANGIBLE LOSSES: EROSION <input type="text"/> ha		47 WATERBODIES DAMAGED <input type="text"/>		48 OTHER SITE DISTURBANCES <input type="text"/>		49 SOCIAL VALUES <input type="text"/>		50 BENEFICIAL EFFECTS <input type="text"/>		SUBMITTED BY <input type="text"/>				APPROVED BY <input type="text"/>					
										DATE <input type="text"/>				DATE <input type="text"/>					

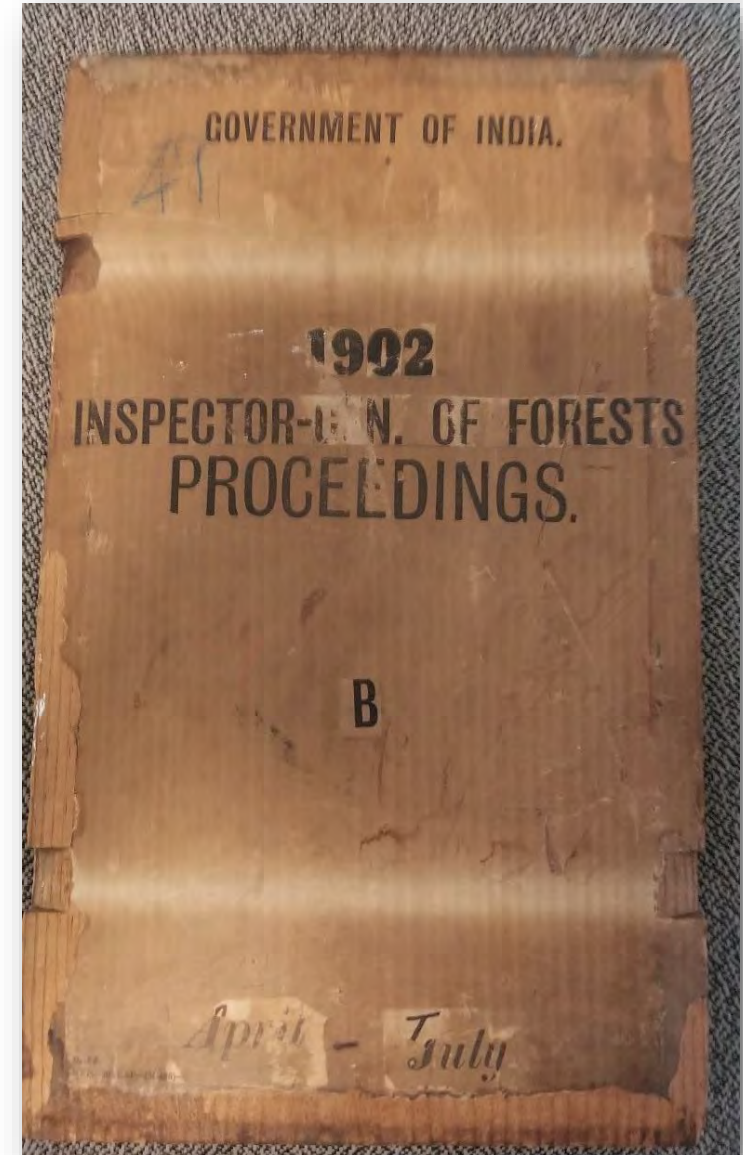
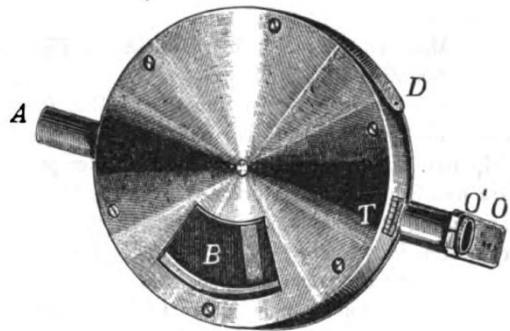
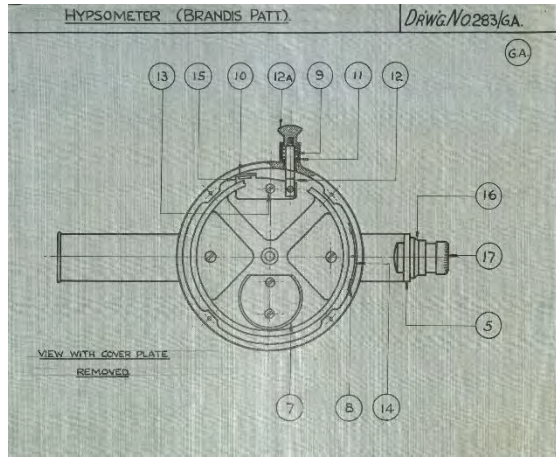
GFMC in India – Follow-up (I)

Three related volumes: 19901, 1991 and 2018



GFMC in India – Follow-up (III)

Brandis heritage: Reconstruction of the Hypsometer and recovery of lost items (Jameson Karns)



GFMC in India – Follow-up (III)

Convention of the families of the fathers of forestry: Brandis – Schenck – Pinchot (GFMC / Freiburg 2018)

