

NOTES ON FUNGI OF FOREST TREES OF EAST PAKISTAN:Xylariaceae, Auriculariaceae, Thelephoraceae,Hydnaceae, Polyporaceae, Agaricaceae.

BY

Md. Abdur Rahman, Senior Research Officer,  
and Ole Zethner, FAO Forest Officer,  
Forest Research Institute, Chittagong,  
East Pakistan:

Trees are attacked by a number of fungi. Some live on the foliage, some are attached to the living shoots and others to the wood. Some fungi are parasites feeding on living tissues, some are saprophytes feeding on dead parts of the trees.

In order to obtain basic knowledge of the various fungi present on forest trees of East Pakistan, a survey was initiated in the autumn of 1969. We have some knowledge from the work done previously, before and after independence, both, but the existing facts are rather scattered and not yet compiled.

During the past half year fungi living on wood were collected on tours to all the major Forest area of the Province. Collected specimens were brought to Lahore and identified by Professor Sultan Ahmed, Government College. We also received help from Department of Botany, Pakistan Forest Institute, Peshawar. The authors are most thankful for this assistance.

This list of wood living fungi presented below is preliminary by nature, because the survey has only been carried out during 8 months. Many more species, therefore, may be collected in future. Also, it was not possible to identify all the collected materials to species. Some specimens may therefore be sent to specialists abroad or be compared with specimens present in foreign collections.

However, it has been found worthwhile already at this stage to present the results obtained so far. This list will be followed up when new additions occur. It is the hope that a more complete paper including also previous data collected in prepartition time and by the staff of Pakistan Forest Institute, Peshawar, can be published in a not too distant future. Such compilation of all existing data will give us the essential basic knowledge required for tackling the problems of prevention of fungus attacks on timbers.

LIST OF WOOD DESTROYING FUNGI LIVING IN THE FOREST OF EAST PAKISTAN.

Table - I.

Name.	Host.	L*	Date of coll.	Coll No.	Leg.	Det.	Remarks
CLASS: ASCOMYCETES SUB-SERIES: PYRENOMYCETES ORDER: XYLARIALES FAMILY: XYLARIACEAE							
<u>Hypoxylon hypomiltum</u> MONT.	<u>Excoecaria agallocha</u>	S	8.2.70	169	A. R.	S. A.	Dead branch.
<u>Hypoxylon</u> sp.	<u>Heritiera fomes</u> .	S	9.2.70	178	A. R.	S. A.	Dead stem.
CLASS: BASIDIOMYCETES SUB-CLASS: HETEROBASIDIOMYCETES ORDER: AURICULARIALES FAMILY: AURICULARIACEAE							
<u>Auricularia cf. petata</u> CLOYD.	<u>Eugenia jambolana</u> .	H	4.2.70	122	A. Z.	S. A.	Dead stem.
SUBCLASS: HOMOBASIDIOMYCETES SERIES: HYMENOMYCETES ORDER: AGARICALES FAMILY: A) THELEPHORACEAE							
<u>Hymenochate cf. tabacina</u> FR.	<u>Heritiera fomes</u>	S	7.2.70	162	A. R.	S. A.	Dead stem.
<u>Hymenochate</u> sp.	<u>Ceriods roxburghiana</u>	S	8.2.70	164	A. R.	S. A.	Dead branch.
<u>Stereum cf. gausapatum</u> FR.	<u>Beilschmiedia pseu- domicrocarpa.</u>	P	11.2.70	221	A. R.	S. A.	Dead stem.
<u>Stereum cf. papyrinum</u> MASSEE.	<u>Artocarpus chaplasha</u>	L	31.2.70	200	A. R.	S. A.	Dead branch.

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Table - II.

Name	Host	I*	Date of coll.	Coll. No.	Leg.	Det.	Remarks.
FAMILY: B) HYDNACEAE							
<u>Irpex flavus</u> KLOTZ.	<u>Bambosa</u> sp.	L	22.1.70	86	A.R.	S.A.	Dead stem.
	<u>Albizzia stipulata</u> .	K	16.10.69	18(a)	A.R.	S.A.	Dead branch
<u>Irpex lacteus</u> FR.	<u>Bambosa</u> sp.	L	22.1.70.	86(b)	A.R.	S.A.	Dead stem.
<u>Irpex</u> cf. <u>flavus</u> KLOTZSCH.	<u>Tectona grandis</u> .	K	18.3.70.	195(c)	A.R.	S.A.	Dead stem.
FAMILY: C) POLYPORACEAE							
<u>Daedalea corrugata</u> .	<u>Macaranga denticulata</u> .	K	17.10.69	27	A.R.	S.A.	Dead branch.
<u>Daedalea flavida</u> LEV.	<u>Excoecaria agallocha</u> .	S	9.2.70.	171	A.R.	S.A.	Dead stem.
<u>Daedalea indica</u> JUNGH.	L.N: Daakudan.	H	28.1.70.	106(g)	A.Z.	S.A.	Dead stem.
<u>Daedalea zonata</u> .	<u>Tectona grandis</u> .	K	15.10.69	5(d)	A.R.	S.A.	Dead stem.
<u>Daedalea</u> cf. <u>Hobsoni</u> BERK.	<u>Dipterocarpus turbinatus</u>	H	14.1.70.	58	A.R.	S.A.	Dead stem.
	<u>Dipterocarpus turbinatus</u>	K	7.2.70	139(a)	A.Z.	S.A.	Dead stem.
	<u>Excoecaria agallocha</u> .	S	7.2.70	158(b)	A.R.	S.A.	Dead stem.
<u>Daedalea</u> cf. <u>quercina</u> (L) PERS.	<u>Excoecaria agallocha</u> .	S	7.2.70.	170	A.R.	S.A.	Dead stem.
<u>Fomes anebus</u> .	<u>Swintonia floribunda</u> .	H	5.3.70.	183	A.Z.	S.A.	Dead stem.
<u>Fomes badius</u> BERK.	L.N: Medullii.	A	11.4.70	222(c)	A.R.	S.A.	Old stump.
	<u>Adina cordifolia</u> .	P	11.4.70	222(a)	A.R.	S.A.	Dead branch.
	<u>Heritiera fomes</u> .	S	9.2.70	222(b)	A.R.	S.A.	Log in use as pole.

Table - III.

Name	Host.	L*	Date of coll.	Coll. No.	Leg.	Det.	Remarks.
<u>Fomes conchatus</u> (FR.) GILL.	<u>Heritiera fomes.</u>	S	9.2.70.	173(b)	A. R.	S. A.	Dead branch.
<u>Fomes ostreiformis</u> BERK.	L. N: <u>Ajullii.</u>	M	22.4.70	246	A. R.	S. A.	Old stump.
<u>Fomes pachyphloeus</u> POTEVILL.	<u>Pterospermum acerifolium.</u>	U	17.4.70	228	A. R.	S. A.	Dead standing tree.
<u>Fomes pseudosenex</u> (MURR.) SACC. & PROTT.	<u>Shorea robusta.</u>	W	22.4.70	251	A. R.	S. A.	Old stump.
<u>Fomes ribis</u> (FR.) GILL.	<u>Lagerstroemia speciosa.</u>	C	10.4.70	215	A. R.	S. A.	Dead stem.
<u>Fomes rimosus</u> BERK.	<u>Heritiera fomes.</u>	S	9.2.70	173(c)	A. R.	S. A.	Living tree.
	<u>Casuarina equisetifolia.</u>	I	18.2.70	260	O. Z.	S. A.	Standing old tree.
<u>Fomes senex</u> (NEES & MONT).	<u>Ficus roxburghii.</u>	*K	2.4.70.	207	A. R.	S. A.	Dead branch.
<u>Fomes</u> sp.	<u>Sonneratia apetala.</u>	'S	7.2.70.	160	A. R.	S. A.	Old stump.
	<u>Cerlops roxburghiana.</u>	'S	8.2.70.	165(a)	A. R.	S. A.	Dead branch.
	L. N: <u>Sutagula.</u>	'C	10.4.70.	216(a)	A. R.	S. A.	Dead stem.
	<u>Swintonia floribunda.</u>	'H	10.4.70	216(b)	A. R.	S. A.	Felled tree.
<u>Ganoderma appalanatum</u> (WALLR.) PAT.	<u>Dipterocarpus terbinatus.</u>	H	18.3.70.	217	A. R.	S. A.	Old stump.
	<u>Dipterocarpus terbinatus.</u>	P	11.4.70.	217(b)	A. R.	S. A.	Dead buttress.
	<u>Dipterocarpus terbinatus.</u>	H	25.2.70.	154	A. Z.	S. A.	Dead stem.
	<u>Dipterocarpus terbinatus.</u>	I	18.4.70.	229	A. R.	S. A.	Dead stem.
	<u>Ficus roxburghii.</u>	I	18.4.70.	231	A. R.	S. A.	Felled tree.
<u>Ganoderma lucidum</u> (LEYSS.) KARST.	<u>Heligarna caustica.</u>	K	16.10.70	22	A. R.	S. A.	Living stump.
	<u>Castanopsis trubuloides.</u>	U	17.4.70.	234	A. R.	S. A.	Dead stem.

Table - IV

Name.	Host.	L*	Date of coll.	Coll. No.	Leg.	Det.	Remarks.
<u>Hexagonia tenuis</u> HOOKER	<u>Eleuocarpus</u> sp.	H	25.3.70.	196(b)	A.Z.	S.A.	Dead branch.
	<u>Artocarpus chaplasha</u> .	K	16.3.69.	19	A.R.	S.A.	Dead branch.
<u>Hexagonia</u> cf. <u>Mirta</u> .	Unknown.	L	22.1.70.	92	A.R.	S.A.	Dead branch.
<u>Merulius</u> sp. (FR.)	<u>Lagerstroemia speciosa</u> .	L	22.1.70.	87	A.R.	S.A.	Dead branch.
<u>Polyporus hirsutum</u> .FR.	<u>Albizzia stipulata</u> .	K	16.10.70.	15	A.R.	S.A.	Felled tree.
<u>Polystictus affinis</u> .	<u>Engelhardtia spicata</u> .	D, I.	18.4.70.	235	A.R.	S.A.	Dead stem.
<u>Polystictus hirsutus</u> FR.	<u>Albizzia stipulata</u> .	K	15.10.69.	7	A.R.	S.A.	Felled stem.
<u>Polystictus leoninus</u> KLOLZ SCH.	<u>Excoecaria agallocha</u> .	S	9.2.70	172	A.R.	S.A.	Dead standing tree.
<u>Polystictus lichenoides</u> MONT.	<u>Anthocephalus cadamba</u> .	L	22.1.70	96	A.R.	S.A.	Dead old stump.
<u>Polystictus proteus</u> BERK.	<u>Macaranga denticulata</u> .	C	12.4.70	225	A.R.	S.A.	Dead old stump.
<u>Polystictus sanguineus</u> (L.) MEY.	Unknown forest tree.	H	14.1.70.	57	A.R.	S.A.	Felled branch.
<u>Polystictus xanthopus</u> FR; SACC.	Unknown forest tree.	H	24.12.69.	34	A.R.	S.A.	Felled dead tree.
	<u>Dallenia indica</u> .	K	16.10.69.	20	A.R.	S.A.	Dead branch.
	<u>Lagerstroemia speciosa</u> .	L	22.1.70.	80	A.R.	S.A.	Felled stem.
	<u>Dipterocarpus turbinatus</u> .	H	14.1.70.	66	A.R.	S.A.	Felled branch.
	<u>Streblus asper</u> .	K	17.10.69.	25	A.R.	S.A.	Felled branch.
	Unknown forest tree.	K	7.1-70.	50	A.R.	S.A.	Dead stem.
<u>Polystictus zonatus</u> GROUP.	Unknown forest tree.	K	7.1.70.	45	A.R.	S.A.	Dead stem.

Table - V.

Name.	Host.	L*	Date of coll.	Coll. no.	Leg.	Det.	Remarks.
<u>Poria tenuis</u> HOOKER.	L.N: Titpai.	H	25.3.70	196(a)	A.R.	S.A.	Felled stem.
<u>Poria</u> sp.	<u>Artocarpus chaplasha</u> .	H	4.2.70	130(a)	A.Z.	S.A.	Felled stem.
	L.N: Dafall.	H	4.2.70	130(b)	A.Z.	S.A.	Felled stem.
	<u>Cassia fistula</u> .	D, I.	18.4.70	232	A.R.	S.A.	Felled stem.
	<u>Heritiera fomes</u> .	S	9.2.70.	181	A.R.	S.A.	Felled stem.
<u>Trametes versiformis</u> BUK & BROONE.	<u>Canarium resiniferum</u> .	*K	2.4.70.	205(a)	A.R.	S.A.	Felled tree.
<u>Trametes corrugata</u> (PERS.) DRES	<u>Gmelina arborea</u> .	L	22.1.70.	73	A.R.	S.A.	Felled log.
	L.N: Buna.	H	28.1.70.	102	A.Z	S.A.	Felled branch.
	Unknown forest tree.	K	7.1.70.	46	A.R.	S.A.	Felled tree.
<u>Trametes</u> sp.	<u>Heritiera fomes</u> .	S	7.2.70	106(c)	A.R.	S.A.	Old stump.
	<u>Dipterocarpus terbinatus</u> .	H	14.1.70	62	A.R.	S.A.	Felled stem.
	<u>Lagerstroemia speciosa</u> .	H	28.1.70	104	A.Z.	S.A.	Felled tree.
	L.N: Balow.	C	12.4.70	227	A.R.	S.A.	Dead stem.
	Unknown forest tree.	S	8.2.70.	166	A.R.	S.A.	Felled log.

Table - VI.

Name	Host	L*	Date of coll.	Coll. No.	Leg.	Det.	Remarks.
FAMILY: D) AGARICACEAE:							
<u>Lentinus coadunatus</u> HOOK.	Unknown forest tree.	K	18.3.70.	190	A.R.	S.A.	Old stem.
<u>Lentinus infundibuliformis</u> BERK.	<u>Swietenia marcophylla</u> .	K	16.10.69.	12	A.R.	S.A.	Old stump.
<u>Lentinus cf. badius</u> BERK.	<u>Swietenia marcophylla</u> .	K	16.10.69.	12(a)	A.R.	S.A.	Old stem.
<u>Lentinus practigidus</u> BERK.	<u>Garcinia</u> sp.	*K	2.4.70.	205(b)	A.R.	S.A.	Old stem.
<u>Pleurotus squarrosulus</u> MONT.	<u>Engenia</u> sp.	K	12.4.70	12(c)	A.R.	S.A.	Felled tree.
	<u>Careya arborea</u> .	M	22.4.70.	257	A.R.	S.A.	Dead stump.
	<u>Shorea rubusta</u> .	M	22.4.70.	254	A.R.	S.A.	Dead stem.
<u>Pleurotus cf. squarrosulus</u>	<u>Artocarpus chaplasha</u> .	L	1.4.70.	202(a)	A.R.	S.A.	Dead branch.
	L.N: Kumbi.	L	31.3.70.	202(b)	A.R.	S.A.	Old stem.
	L.N: Dalai singer.	*K	2.4.70.	202(c)	A.R.	S.A.	Felled stem.
<u>Schizophyllum commune</u> FR.	<u>Heritiera fomes</u> .	S	9.2.70.	182	A.R.	S.A.	Dead branch.

L O C A L I T I E S:

A = Amtali : At Pablakhali, Chittagong Hill Tracts.  
 C = Chowrakhali : At Pablakhali, Chittagong Hill Tracts.  
 D = Dakachara : At Pablakhali, Chittagong Hill Tracts.  
 H = Herbung : At Chittagong.  
 I = Inoni : At Cox's Bazar, Chittagong.  
 K = Kaptai : At Chittagong Hill Tracts.  
 \*K = Kalachara : At Sylhet.  
 L = Lawachara : At Sylhet.  
 M = Madhupur : At Mymensingh.  
 P = Pablakhali : At Chittagong Hill Tracts.  
 S = Sundarban : At Khulna.  
 U = Ukhia : At Cox's Bazar, Chittagong.

C O L L E C T O R S:

A. R. : Abdur Rahman.  
 A. Z. : Abu Zafar.  
 O. Z. : Ole Zethner.

I D E N T I F I E R:

S. A. : Sultan Ahmed.

\*kalam\*  
 12.8.70.