BEST AGRICULTURE PRACTICES ON PEATLAND FOR COMMUNITY LIVELIHOOD

16-18 MAY 2012

Regional Project Executing Agency

TEAM MEMBER S

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Global Environment Center

SESSIONS

MORNING

SESSION 1 -- 25 minutes

Rest 10 minutes

SESSION 2 -- 25 minutes

AFTERNOON

SESSION 3 -- 25 minutes

Rest 10 minutes

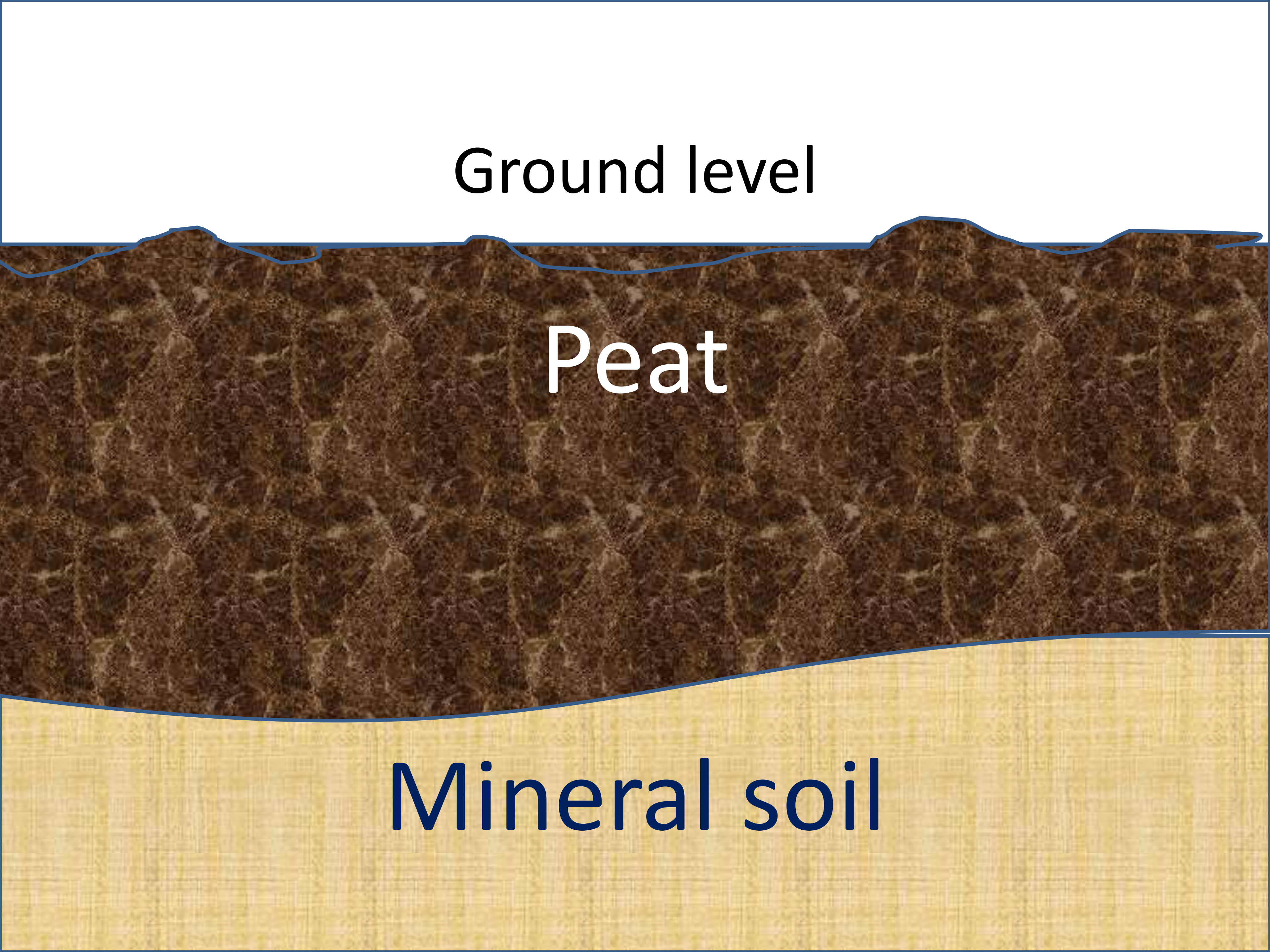
SESSION 4 -- 25 minutes

SESSION 1

PEAT

Organic matter:

Decomposed , semi-decomposed and even raw plants materials accumulated on top of the mineral soil surface


Ground level
Peat
Mineral soil

PEAT

PROBLEM SOIL

MAIN CAUSES

A. CHEMICAL PROPERTIES OF PEAT

B. PHYSICAL PROPERTIES OF PEAT

A. CHEMICAL PROPERTIES OF PEAT

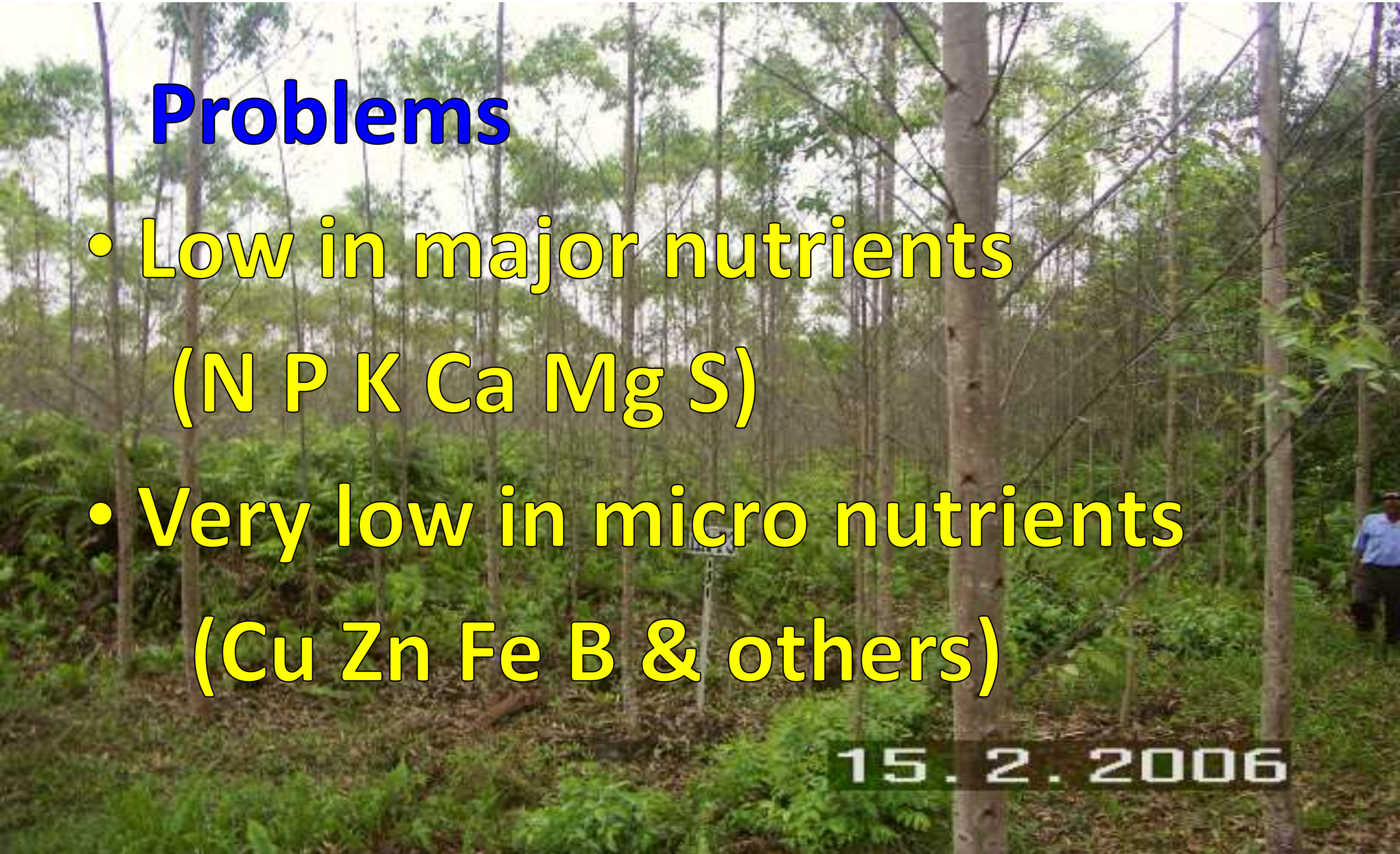
- 1. LOW pH
- 2. LOW NUTRIENT
- 3. HIGH CARBON NITROGEN RATIO
- 4. HIGH CATION EXCHANGE CAPACITY

1. LOW pH

2. LOW NUTRIENTS

Problems

- Low in major nutrients (N P K Ca Mg S)
- Very low in micro nutrients (Cu Zn Fe B & others)



2. LOW NUTRIENT

3. HIGH CARBON NITROGEN RATIO

3. NITROGEN DEFICIENCY

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4. HIGH CATION EXCHANGE CAPACITY

Problem

- Fixation of micro nutrient by peat

Copper, Zinc

Iron, Boron & others

FIXATION

Fixation means peat will absorb the micro nutrients until saturated then only release the excess micro nutrients to the plants

4. MICRO NUTRIENT DEFICIENCY

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B. PHYSICAL PROPERTIES OF PEAT

- 1. LOW BULK DENSITY
- 2. LOW BEARING
- 3. HIGH POROSITY
- 4. HIGH WATER TABLE

1. LOW BULK DENSITY

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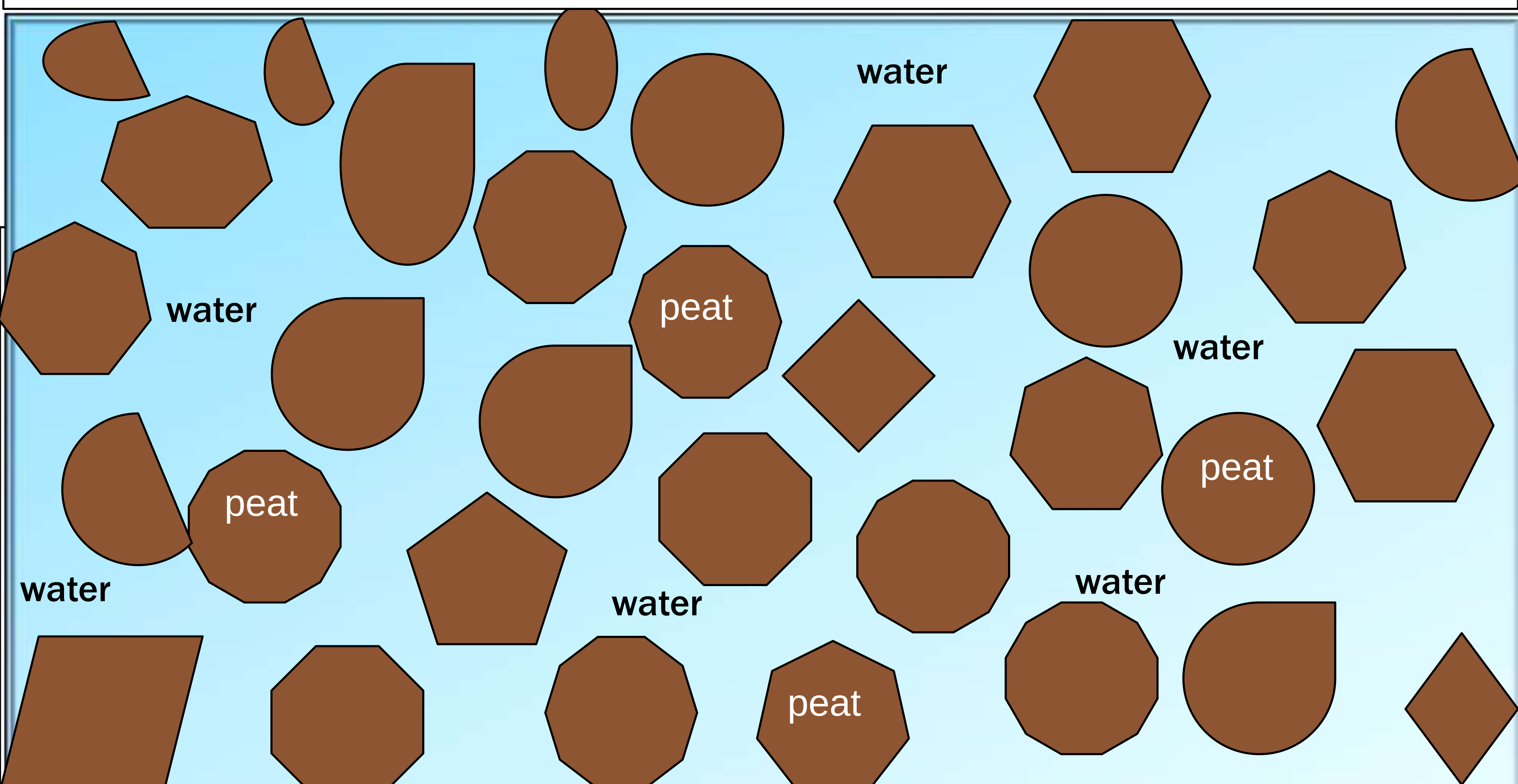
Problems

- Very low density < 0.2g/cm3
- Subsidence of peat after water drainage

1. LOW BULK DENSITY

2. LOW BEARING

ground level



2. LOW BEARING

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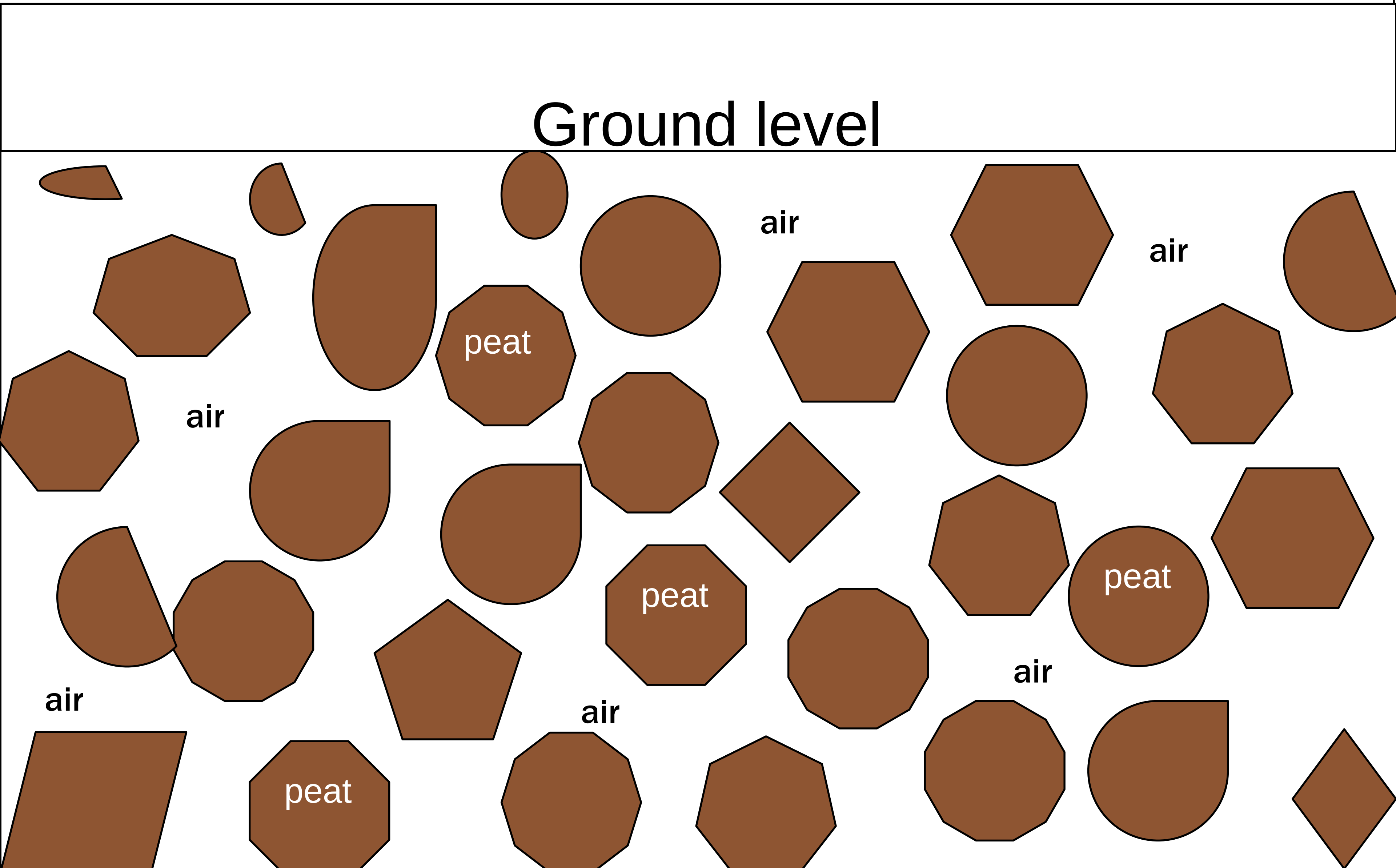
3. HIGH POROSITY

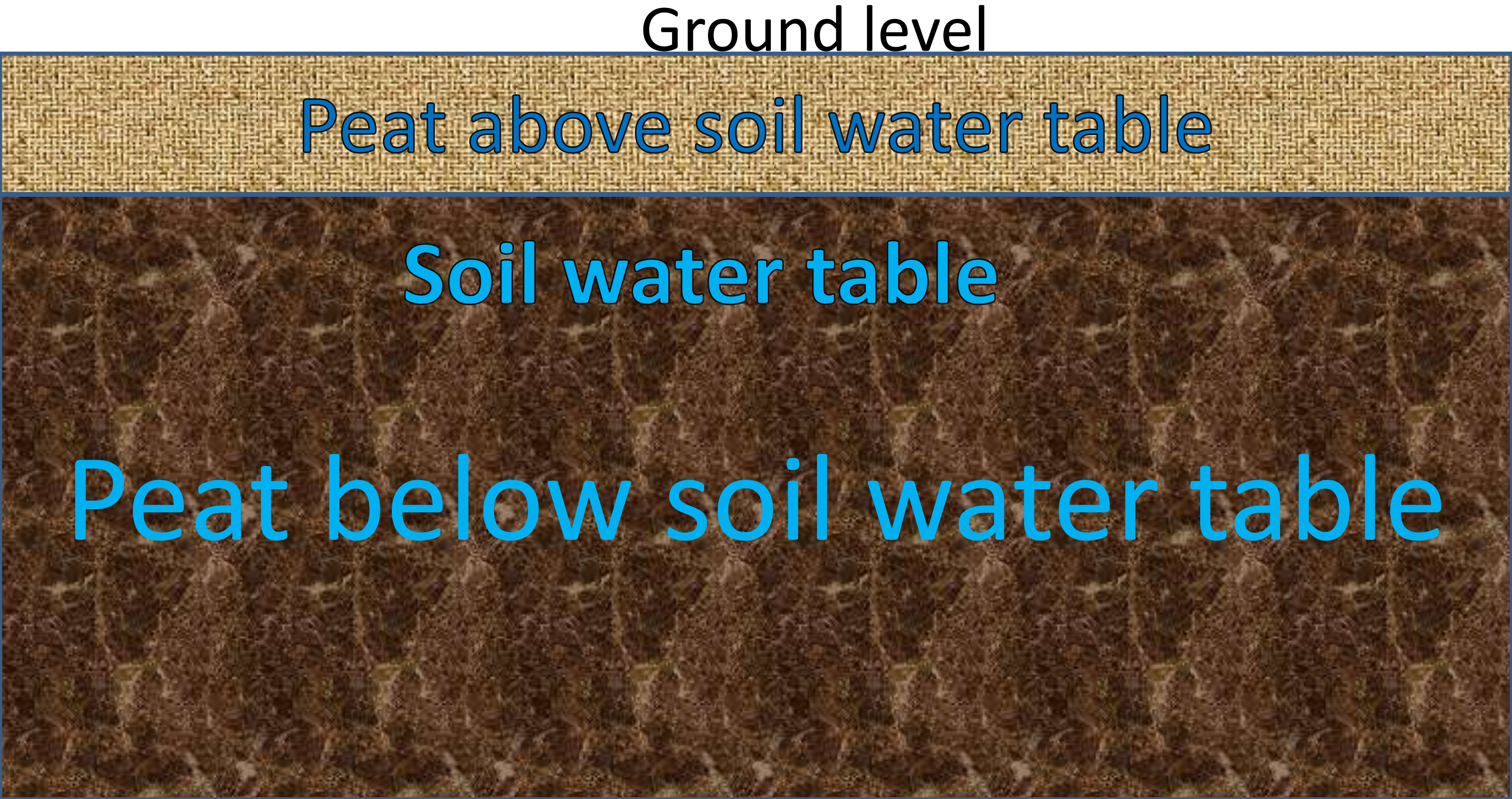


3. HIGH POROSITY

Problems

- Poor water holding capacity
- High leaching of fertilizer

4. HIGH WATER TABLE



4. HIGH WATER TABLE

Problems :

- Water logged
- Poor root growth

4.HIGH WATER TABLE


REST
TO BE CONTINUED