Deterioration and death of trees in sub-alpine zone of Japan (II) (12pt)

**English format** A4 paper, margins 23mm top and bottom, 20mm left and right, 50 lines per page

The effects of long term ozone exposure on Japanese spruce seedlings (11pt)

（標題と著者6行分取り，調整可）

Hiroshi Mori\*, Toyoko Yamanaka\*, Jun Moriguchi\*\*

and Masakazu Tokutani\*(Times New Roman 9pt Centering)

(1行あけて和文要旨を書く（３００字以内）)

# 日本の本州亜高山帯に生育する多数の樹種の大量枯損および衰退と，自然的な要因や大気汚染との関連について……(明朝9pt，左右インデント各17.5mm)…………………………………………………………………………………………………………………………

# ………………………………………………………………………………………

**キーワード:** 亜高山帯，大気汚染物質，………，………5語以内

(1 line spaced, English abstract (200 words or less))

# Abstract (Times New Roman bold 10pt)

The death of various species of trees in the sub-alpine zone of Honshu Island of Japan has sparked controversy over the roles of natural factors and air-pollutants play. The goal of this work was to investigate (Times New Roman 9pt)…………………………………………………………………………………………………………………………………………………………….

**Key words:** sub-alpine zone, air pollutants, ……, ……, ……(5 words or less)

(Section separator, open one line and begin body text)

I Introduction(Gothic style 10pt)

In the sub-alpine zone of Honshu Island, Japan, various tree species show die-back phenomena.

As trees increase in size, ...(Times New Roman 9pt)

The text should be written in two columns, each column should have 25 characters (with about 3.5 characters between columns). The first paragraph should not be indented, and the following paragraphs should be indented. Please confirm the submission rules and guidelines before writing the anuscript.

The manuscript template (in Word format) is available on the website.………………………………………………………………………………………………………………………

II Materials and Methods

Fifty seedlings of 3-year old *Picea jezoensis* var. *hondoensis* with active apical meristems ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

III Results（or Results and Discussion）

1. Direct effects of ozone fumigation

The visual effect of ozone fumigation was ……(Figure 1).………………………………………………………………………………………………………………………………………………………

The figures and tables should be pasted in the manuscript at the appropriate position with an appropriately sized blank space where they are to be inserted. Make sure that the inserted figures and tables are clear enough for peer review.

Be careful when creating the inserted figures and tables not to make the letters and symbols too small.

Fig.1 Title (The upper frame is used as a figure)

図－1 和文表題

IV Discussion

…………………………………………………….....………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

V Conclusion（optional）

…………………………………………………………………………………………………………………………………………………………………………………………………………………………

References（ABC order, hanging 1.5 characters，9pt）

Abeles, F. B. (1973) Ethylene in plant biology. 436pp. Academic Press, New York.

Barker, J. E. (1979) Growth and wood properties of *Pinus radiata* in relation to applied ethylene. N. Z. J. For. Sci. 9: 15–19.

(Abbreviations of journal names are customary.)