

Conference Paper

森林応用研究 Applied Forest Science 33 Special issue (2024)

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

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)

- 1 I Introduction (Gothic style 10pt)
2 In the sub-alpine zone of Honshu Island, Japan, various tree
3 species show die-back phenomena.
4 As trees increase in size, ... (Times New Roman 9pt)
5 The text should be written in two columns, each column
6 should have 25 characters (with about 3.5 characters between
7 columns). The first paragraph should not be indented, and the
8 following paragraphs should be indented. Please confirm the
9 submission rules and guidelines before writing the manuscript.
10 The manuscript template (in Word format) is available on the
11 website.....
12
13
14
15 II Materials and Methods
16 Fifty seedlings of 3-year old *Picea jezoensis* var. *hondoensis*
17 with active apical meristems
18
19
20
21
22
23
24
25
26
27
28
29
30
31 III Results (or Results and Discussion)
32 1. Direct effects of ozone fumigation
33 The visual effect of ozone fumigation was (Figure
34 1).....
35
36
37
38
39 Fig.1 Title (The upper frame is used as a figure)
40 図-1 和文表題
41
42 IV Discussion
43
44
45
46
47
48
49
50 V Conclusion (optional)
51
52
53
54

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.

* Shikoku Res. Ctr., For. and For. Prod. Res. Inst., Kochi 780-8077 (森林総合研究所四国支所, 〒780-8077 高知)

** Fac. of Agric. Kochi Univ., Nankoku 783-8502 (高知大学農学部, 〒783-8502 南国) (8pt)

亜高山帯に樹木の衰退と枯死 (II) トウヒ苗木に対するオゾン長期暴露の影響

森ひろし・山中豊子・森口純・徳谷正一

55

- 56 **References** (ABC order, hanging 1.5 characters, 9pt)
- 57 Abeles, F. B. (1973) Ethylene in plant biology. 436pp.
- 58 Academic Press, New York.
- 59 Barker, J. E. (1979) Growth and wood properties of *Pinus*
- 60 *radiata* in relation to applied ethylene. N. Z. J. For. Sci. 9:
- 61 15–19.
- 62 (Abbreviations of journal names are customary.)