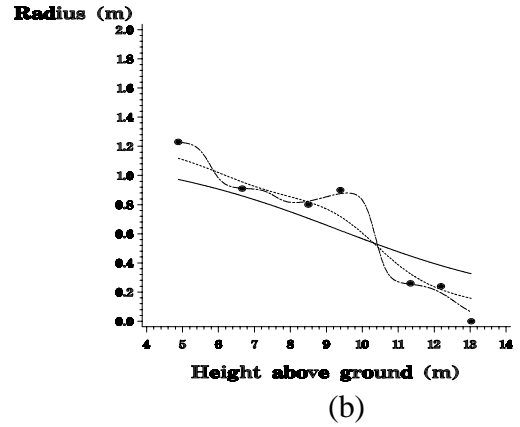
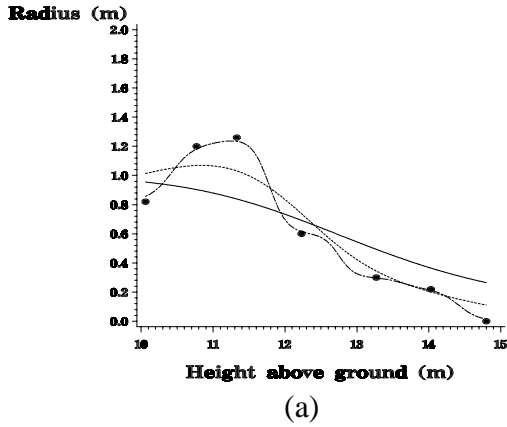
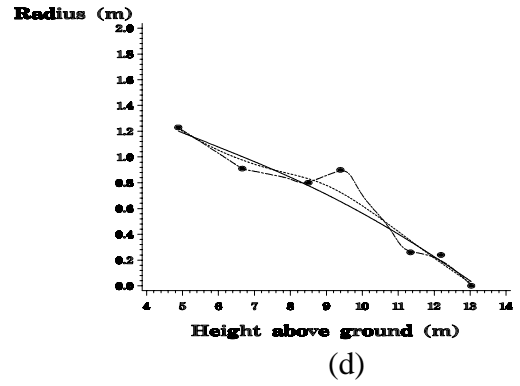
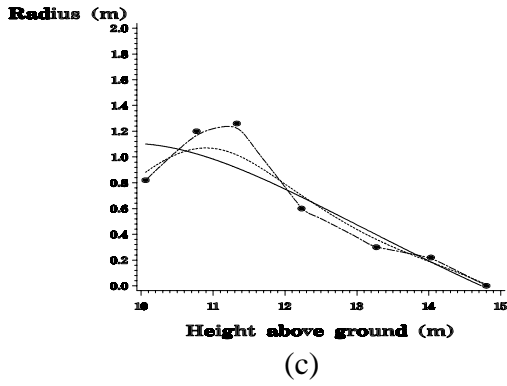


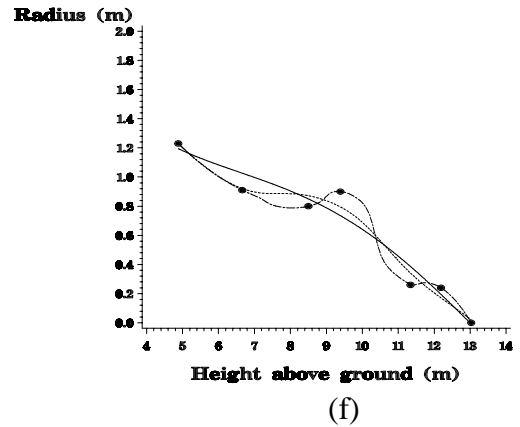
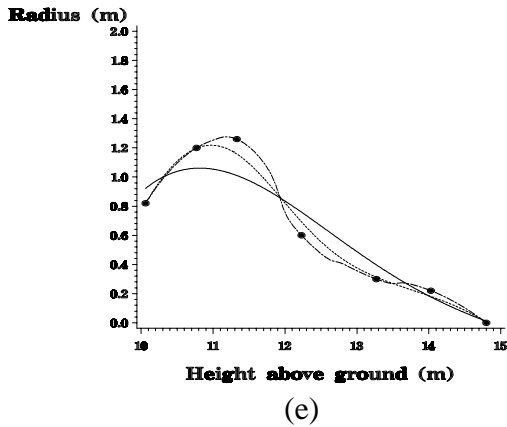
### Kernel Fits



### Local Linear Fits



### Local Quadratic Fits

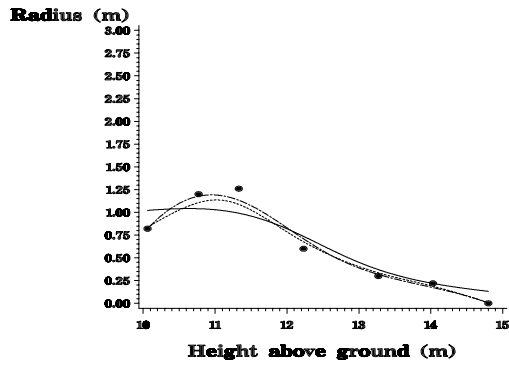


—————  
Bandwidth=0.50

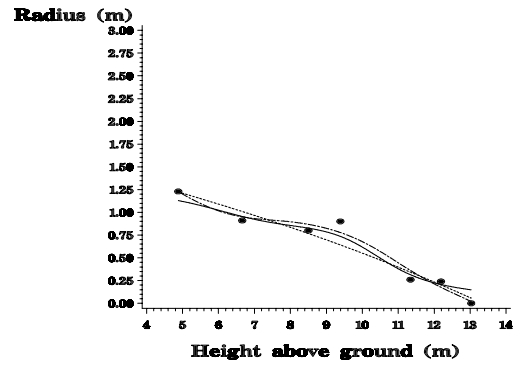
.....  
Bandwidth=0.25

- - - - -  
Bandwidth=0.10

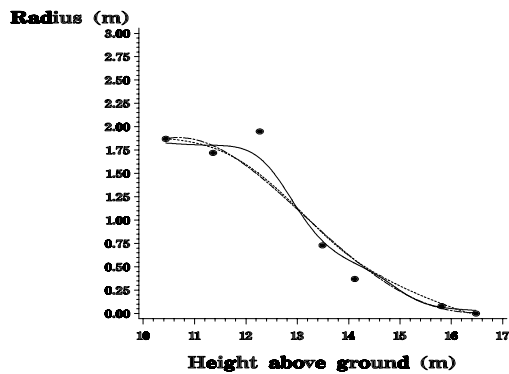
Figure 4.1. A comparison of varying bandwidth nonparametric fits to two crown profiles.  
 (a), (c), and (e): tree 10701      (b), (d), and (f): tree 20301.



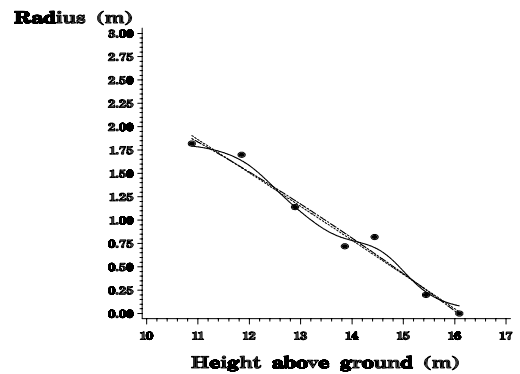
(a)



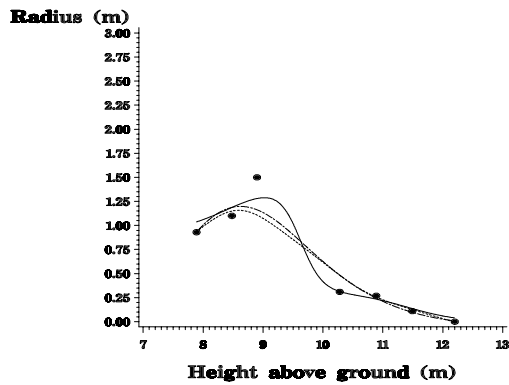
(b)



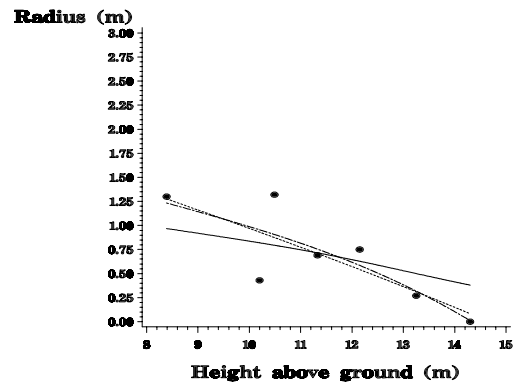
(c)



(d)



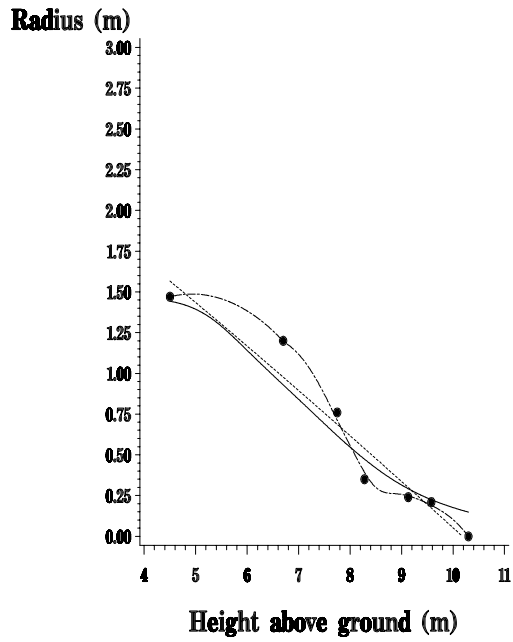
(e)



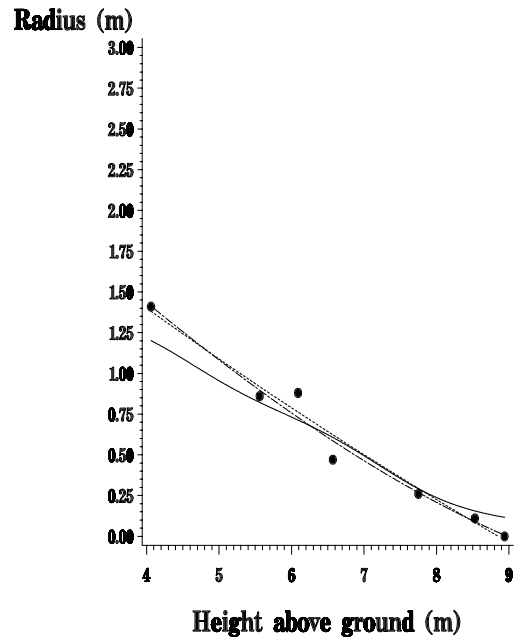
(f)

— Kernel      ····· Local Linear      -·-·-· Local Quadratic

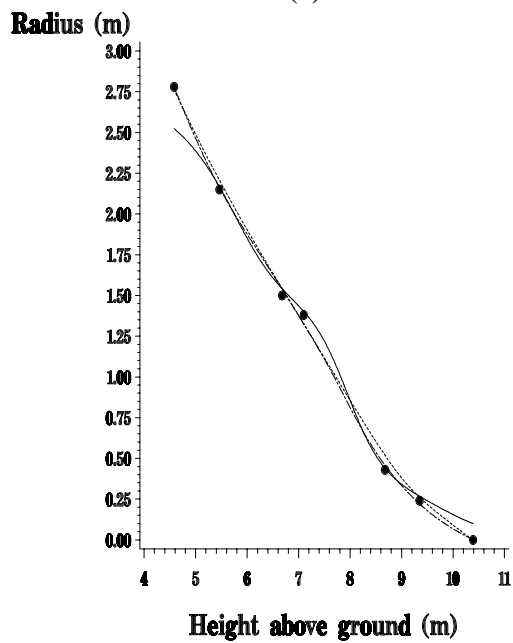
Figure 4.2. A comparison of optimal (PRESS\* criterion) nonparametric fits to six crown profiles. (a) tree 10701 (b) tree 20301 (c) tree 20401 (d) tree 20401 (e) tree 10501 (f) tree 10301



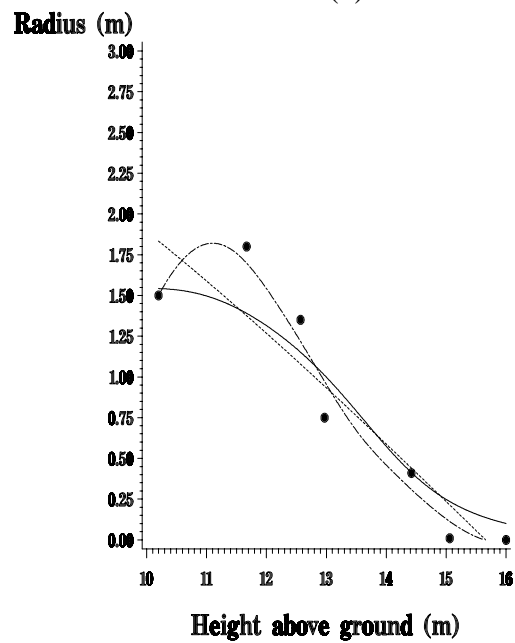
(a)



(b)



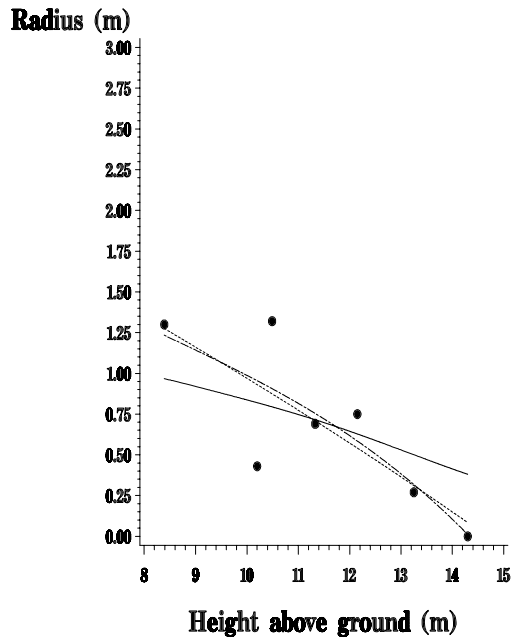
(c)



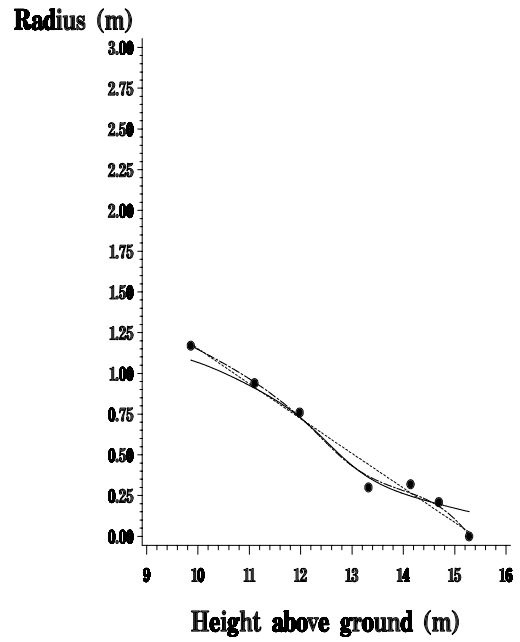
(d)

— Kernel      ····· Local Linear      - - - - - Local Quadratic

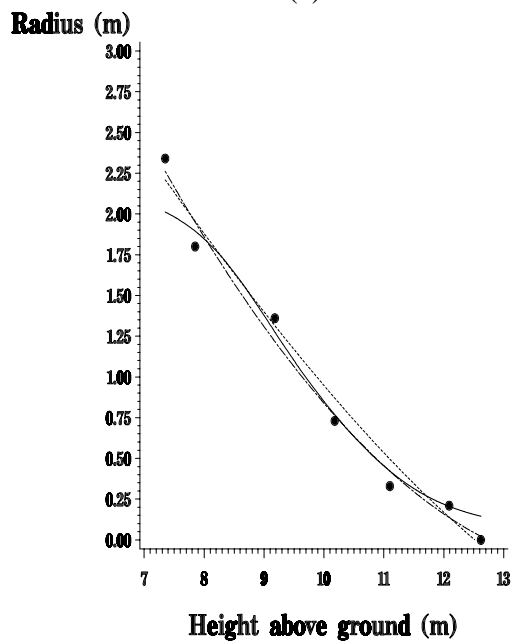
Figure 4.3. Optimal (PRESS\* criterion) nonparametric regression fits to four crown profiles: (a) tree 10101 (b) tree 10102 (c) tree 10103 (d) tree 10201.



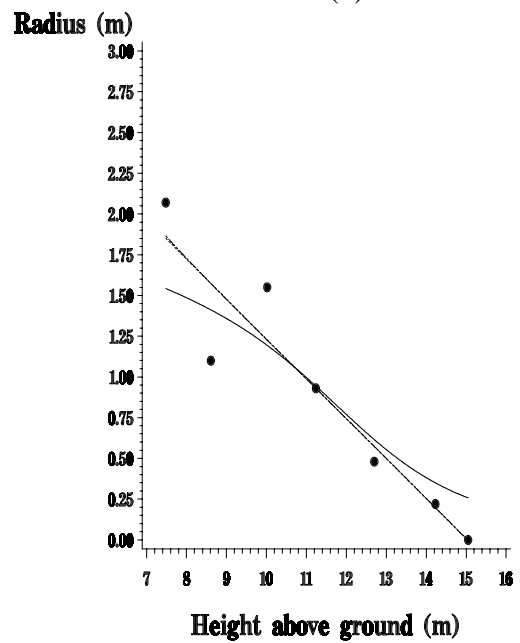
(a)



(b)



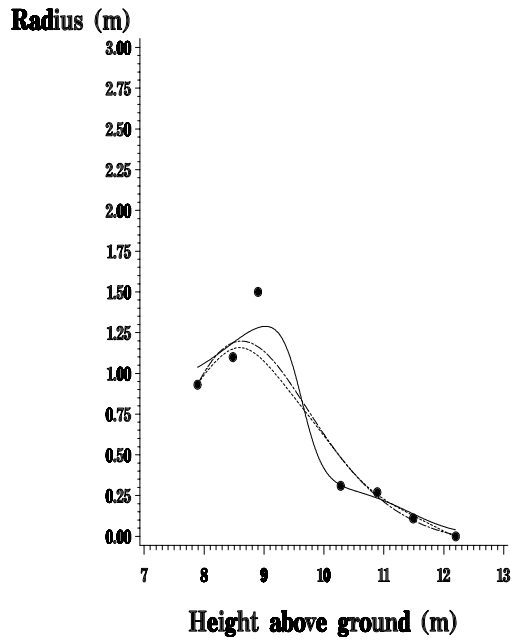
(c)



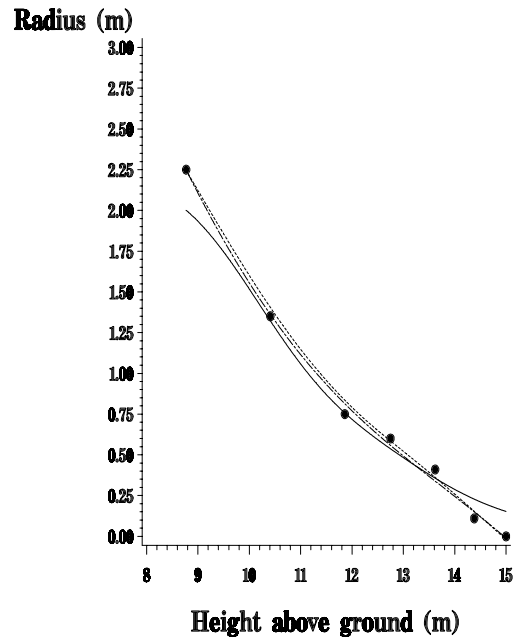
(d)

—— Kernel      ····· Local Linear      - - - - - Local Quadratic

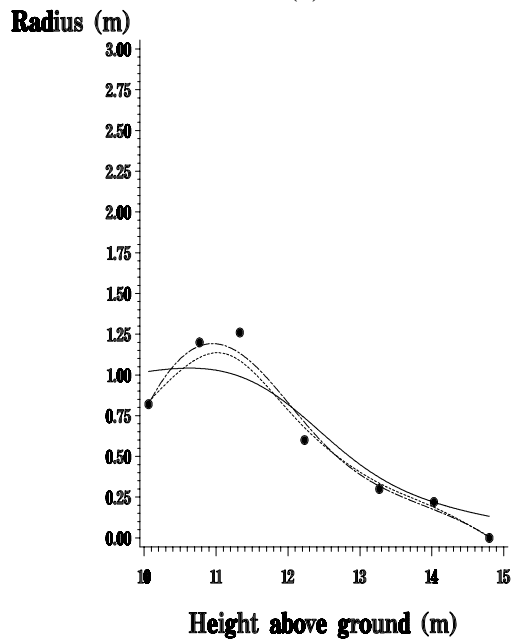
Figure 4.4. Optimal (PRESS\* criterion) nonparametric regression fits to four crown profiles: (a) tree 10301 (b) tree 10302 (c) tree 10303 (d) tree 10401.



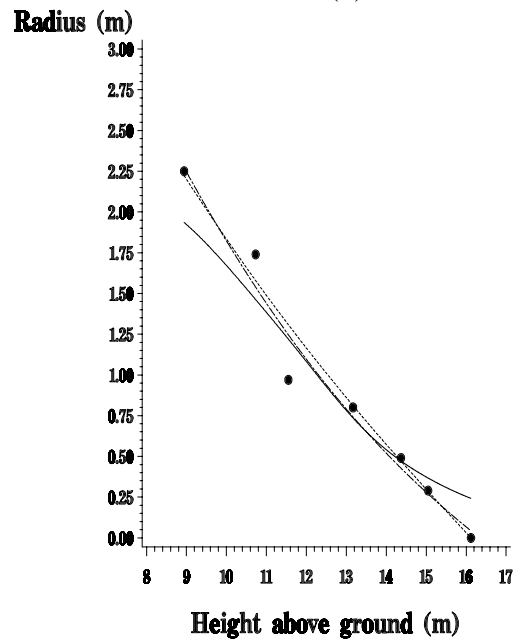
(a)



(b)



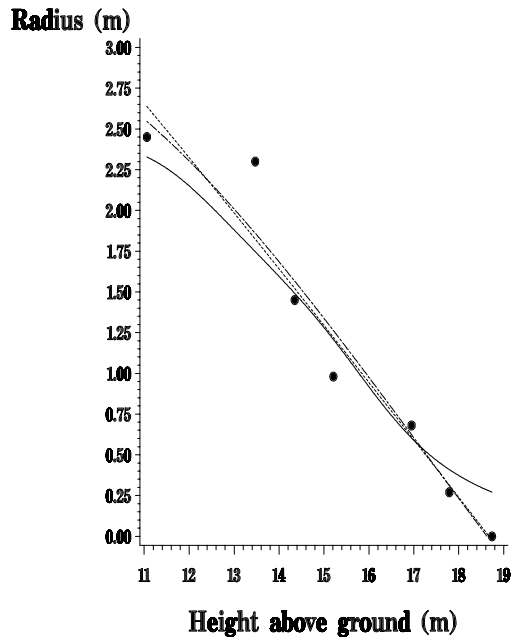
(c)



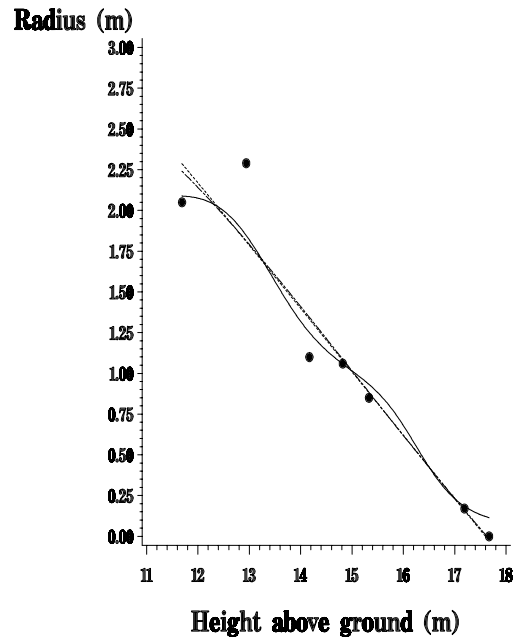
(d)

— Kernel      ····· Local Linear      - - - - - Local Quadratic

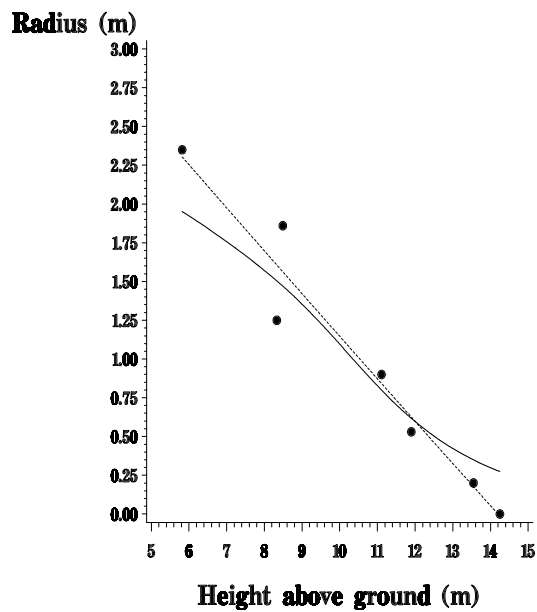
Figure 4.5. Optimal (PRESS\* criterion) nonparametric regression fits to four crown profiles: (a) tree 10501 (b) tree 10601 (c) tree 10701 (d) tree 10801.



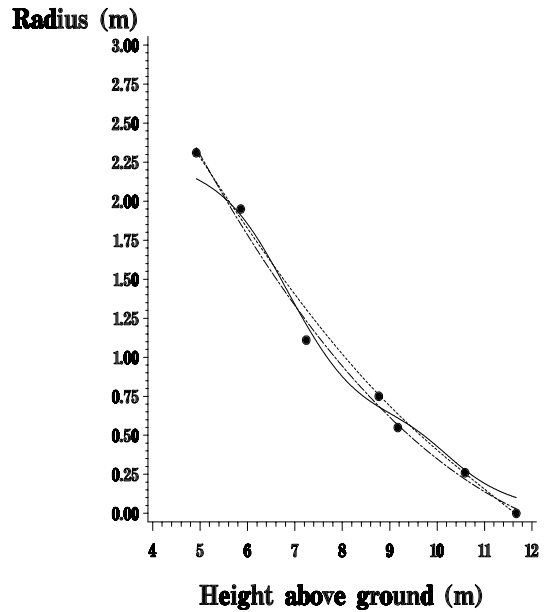
(a)



(b)



(c)

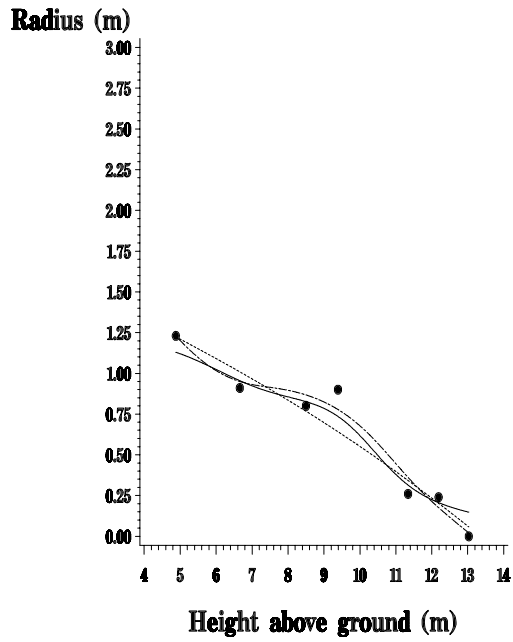


(d)

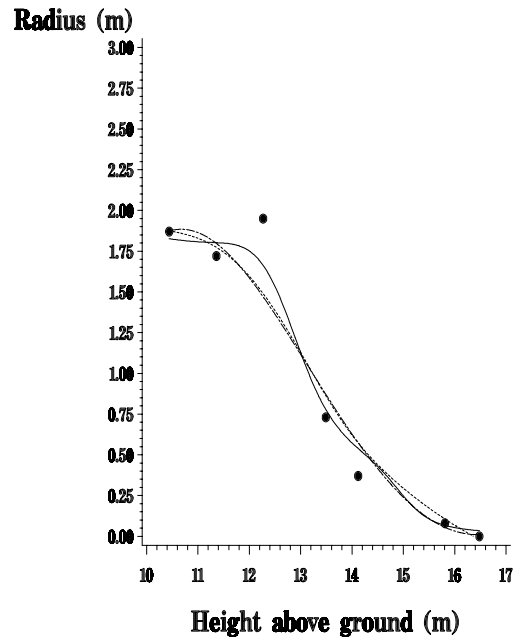
— Kernel      ····· Local Linear      - - - - - Local Quadratic

Figure 4.6. Optimal (PRESS\* criterion) nonparametric regression fits to four crown profiles: (a) tree 10901 (b) tree 10902 (c) tree 20101<sup>1</sup> (d) tree 20201.

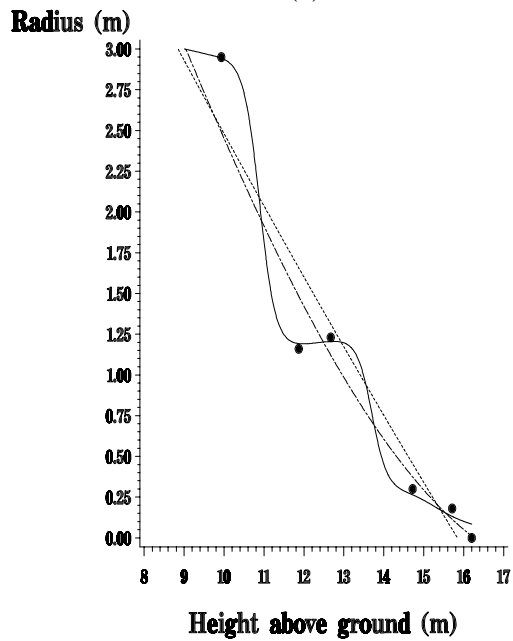
<sup>1</sup> Local quadratic regression failed to execute on this tree crown.



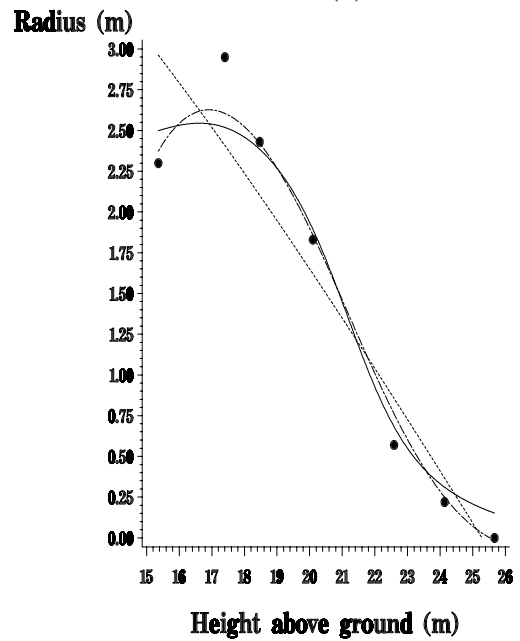
(a)



(b)



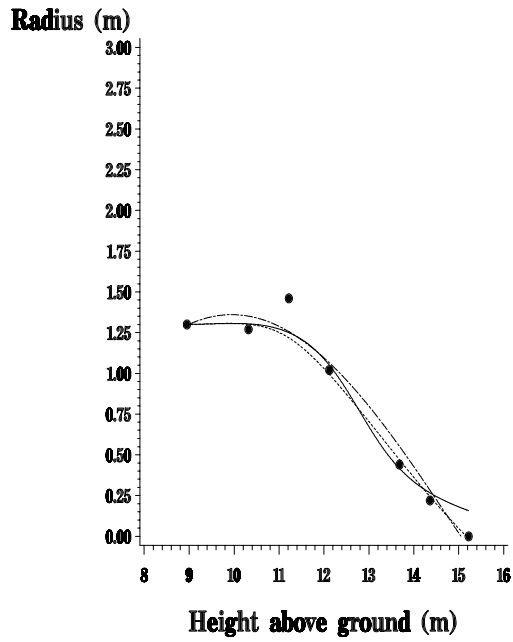
(c)



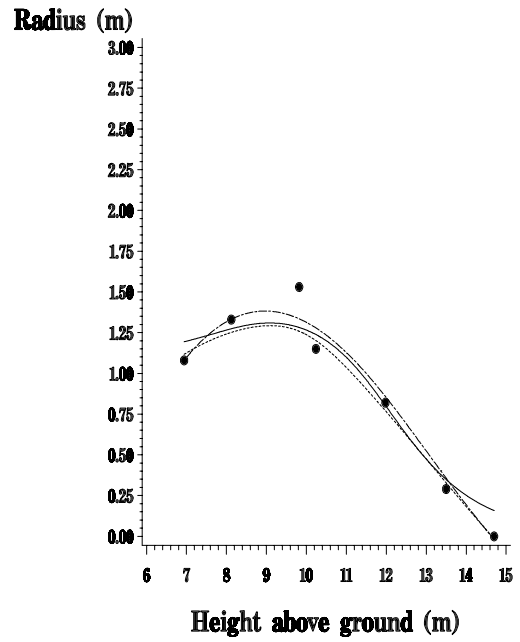
(d)

—— Kernel      ..... Local Linear      - - - - - Local Quadratic

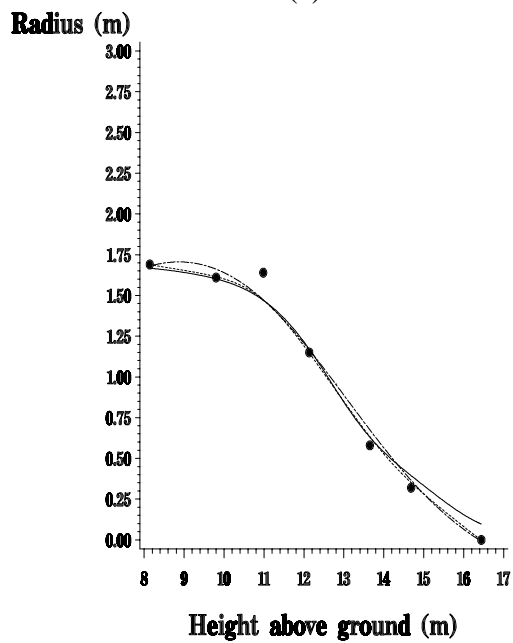
Figure 4.7. Optimal (PRESS\* criterion) nonparametric regression fits to four crown profiles: (a) tree 20301 (b) tree 20401 (c) tree 20501 (d) tree 20601.



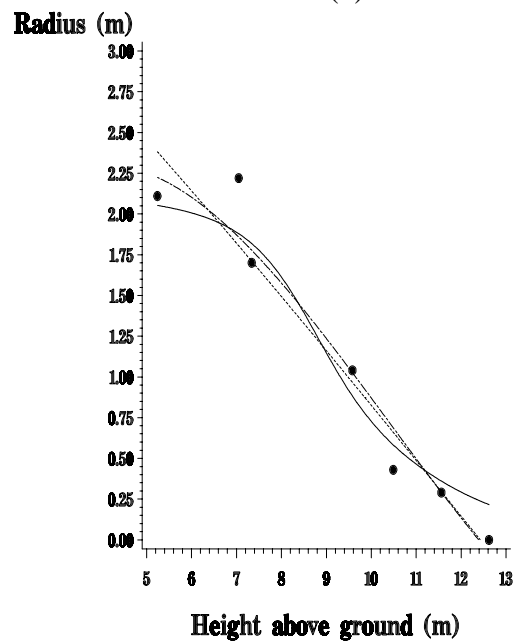
(a)



(b)



(c)

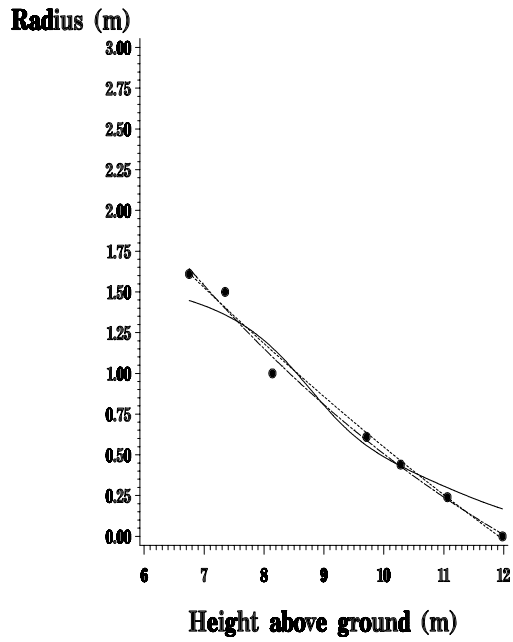


(d)

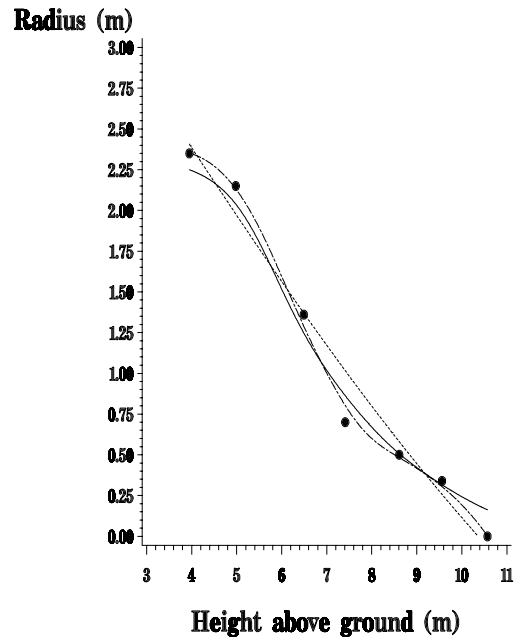
—— Kernel      ..... Local Linear      - - - - - Local Quadratic

Figure 4.8. Optimal (PRESS\* criterion) nonparametric regression fits to four crown profiles: (a) tree 20701 (b) tree 20801 (c) tree 20901 (d) tree 30101.

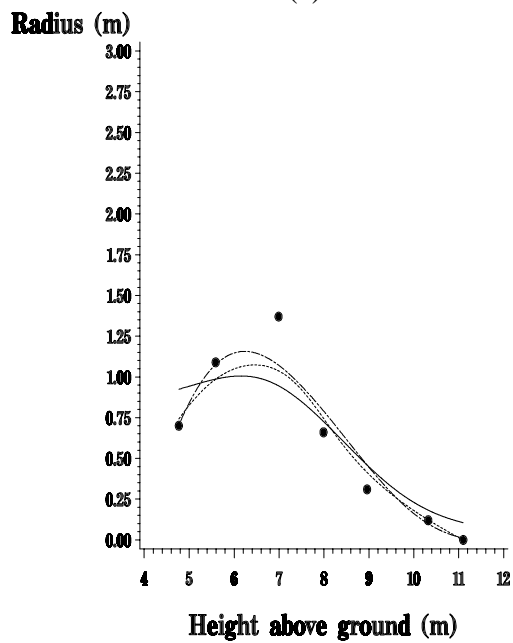




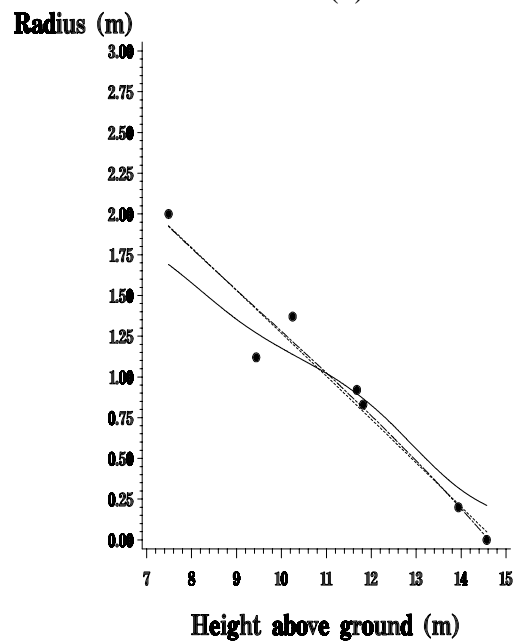
(a)



(b)



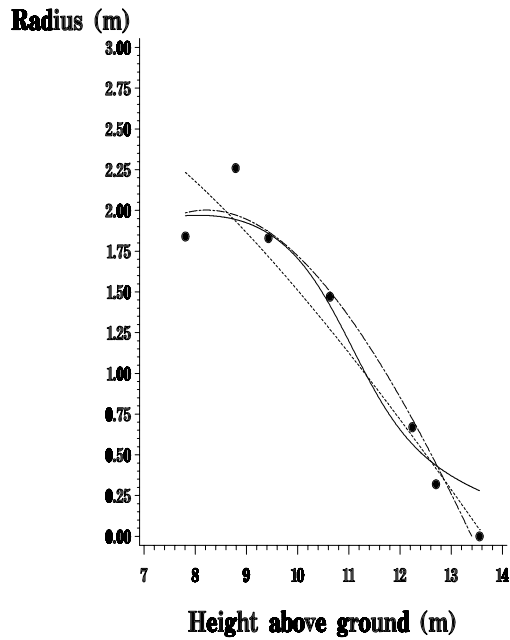
(c)



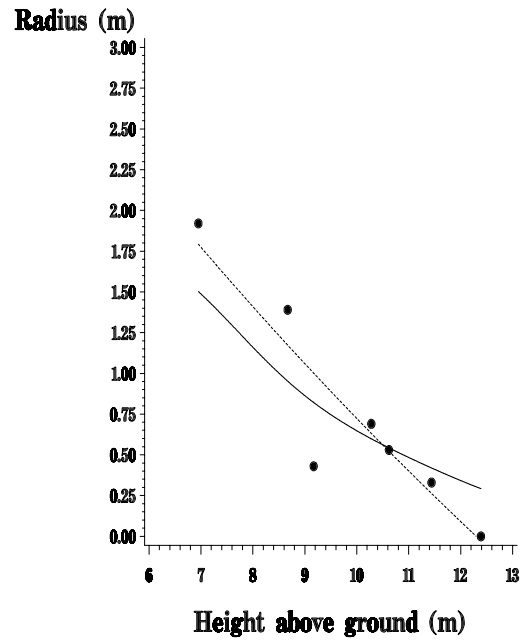
(d)

— Kernel      ····· Local Linear      - - - - - Local Quadratic

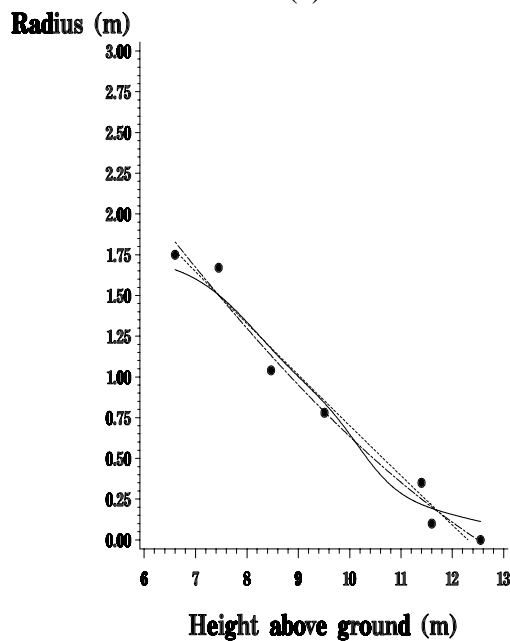
Figure 4.9. Optimal (PRESS\* criterion) nonparametric regression fits to four crown profiles: (a) tree 30201 (b) tree 30301 (c) tree 30401 (d) tree 30501.



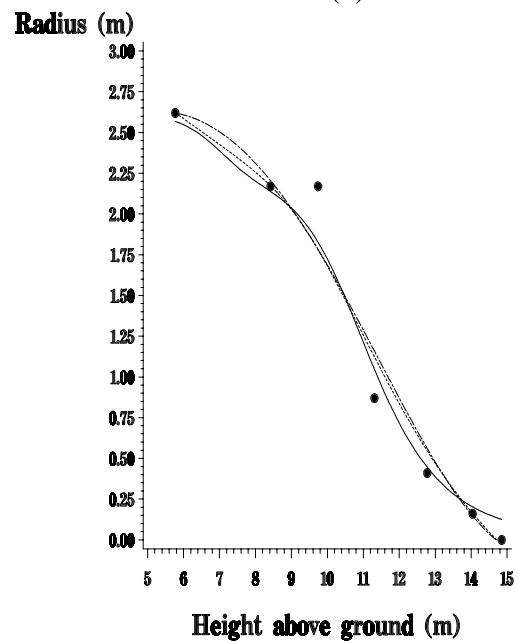
(a)



(b)



(c)

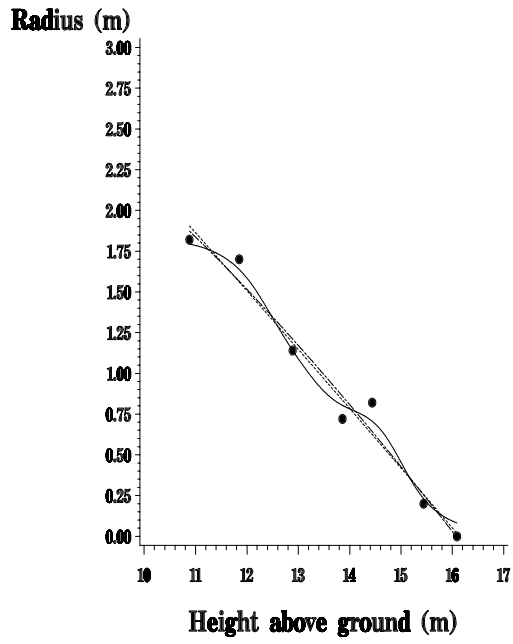


(d)

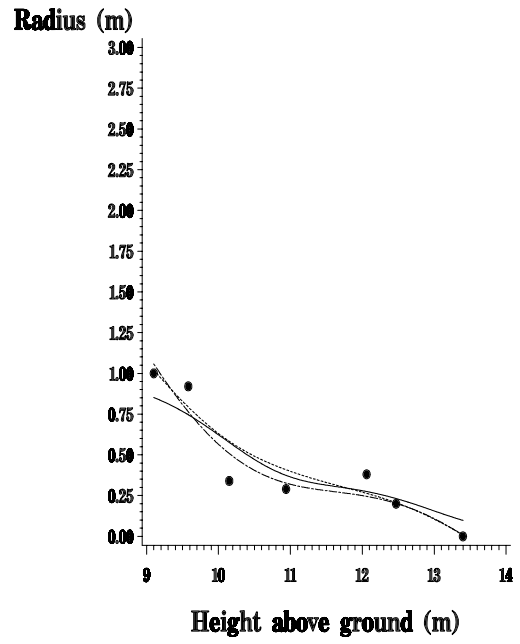
— Kernel      ····· Local Linear      - - - - - Local Quadratic

Figure 4.10. Optimal (PRESS\* criterion) nonparametric regression fits to four crown profiles: (a) tree 30601 (b) tree 30701<sup>2</sup> (c) tree 30801 (d) tree 30901.

<sup>2</sup> Local quadratic regression failed to execute on this tree crown.



(a)



(b)

— Kernel      ····· Local Linear      -·-·-· Local Quadratic

Figure 4.11. Optimal (PRESS\* criterion) nonparametric regression fits to two crown profiles: (a) tree 31001 (b) tree 31101.