

CULTURAL EVOLUTION IN THE AGE OF ATHENS: DRIFT AND SELECTION IN GREEK FIGURE- PAINTED POTTERY

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VOLUME 2 OF 2

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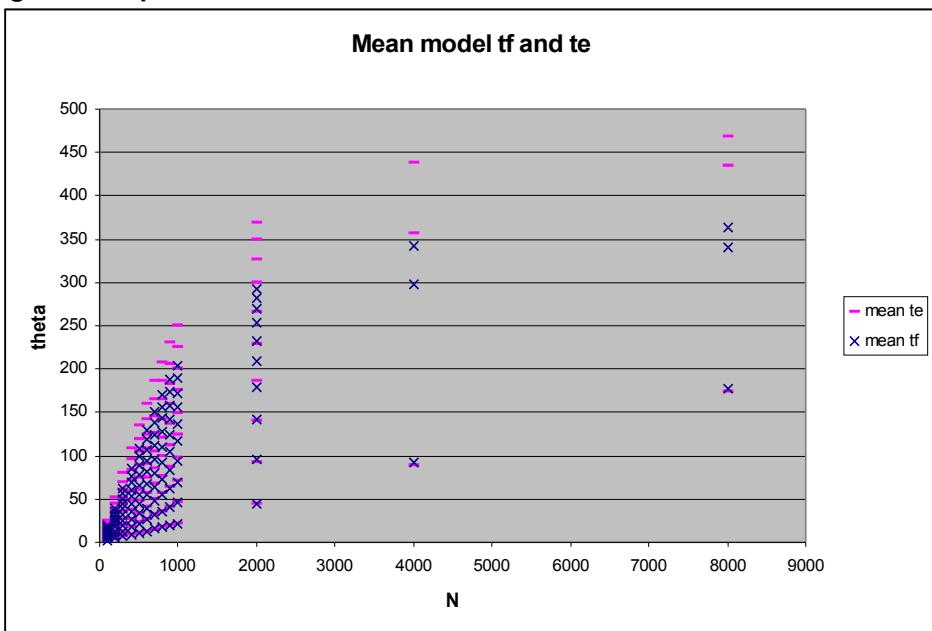
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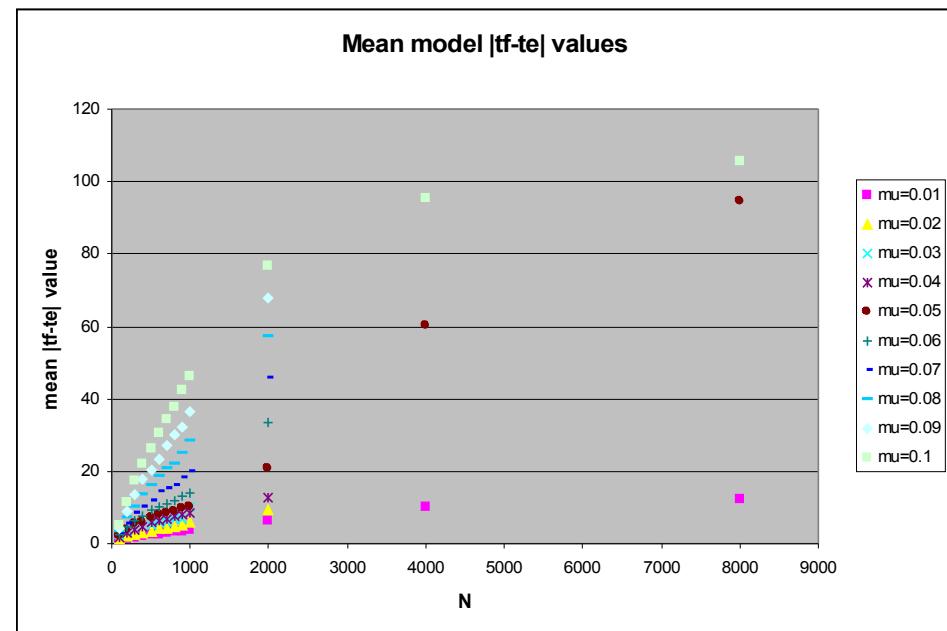
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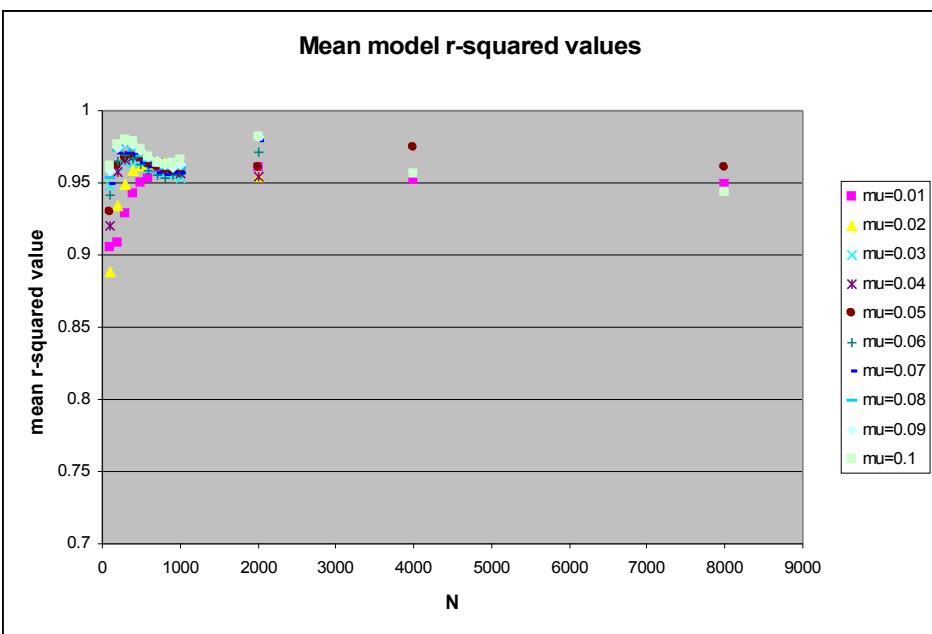
Figures Chapter 2



2.1. Mean values of te and tf for different values on N and μ .

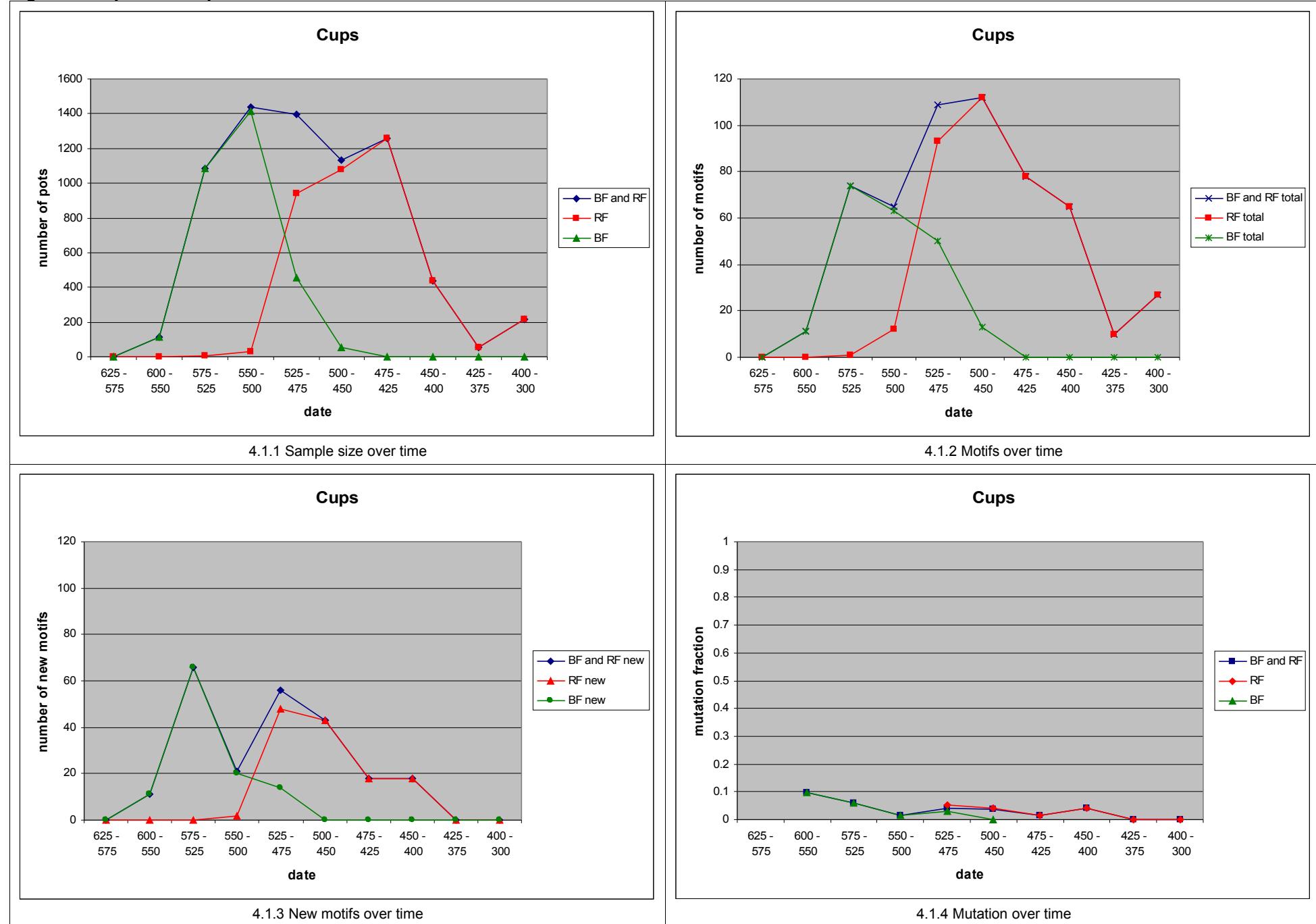


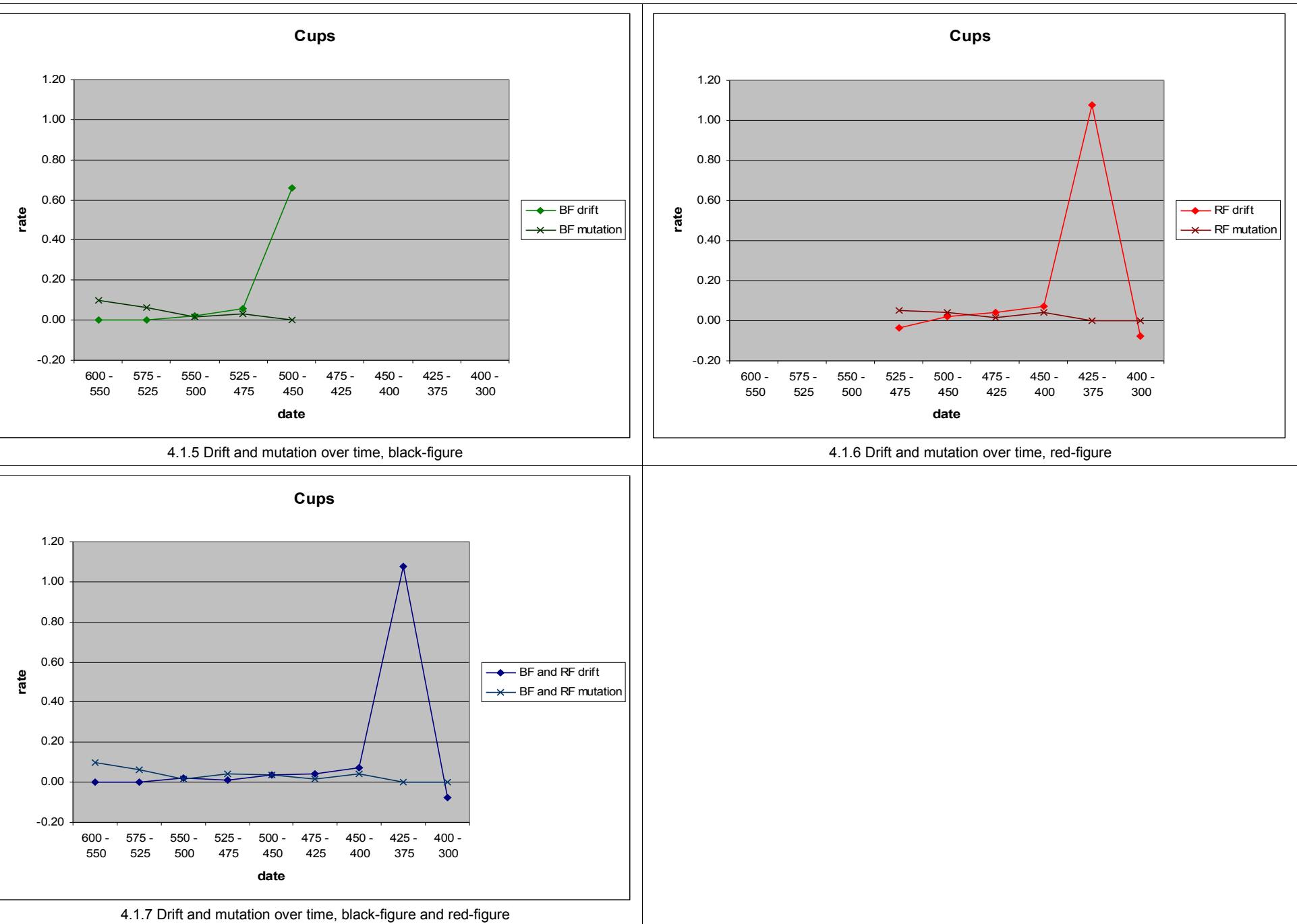
2.2. Mean $|tf-te|$ values for different values on N and μ .

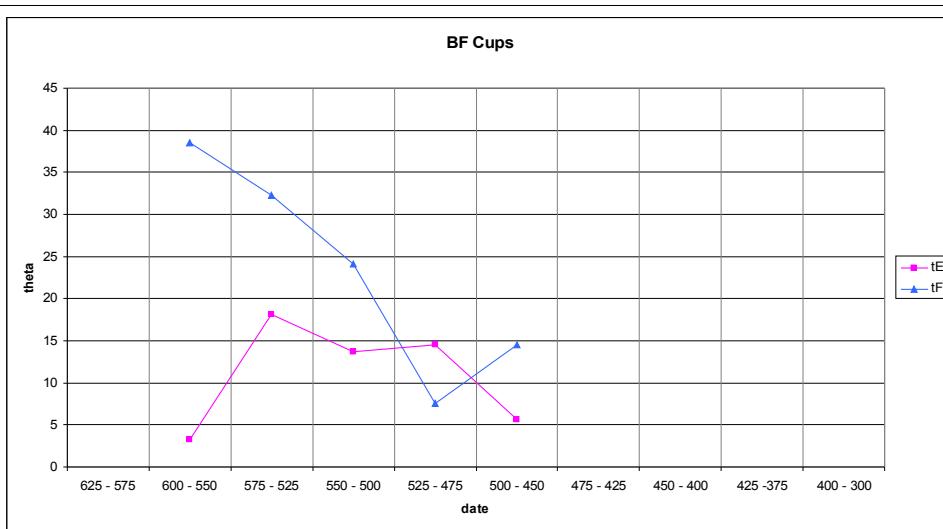


2.3. Mean r^2 values for different values on N and μ .

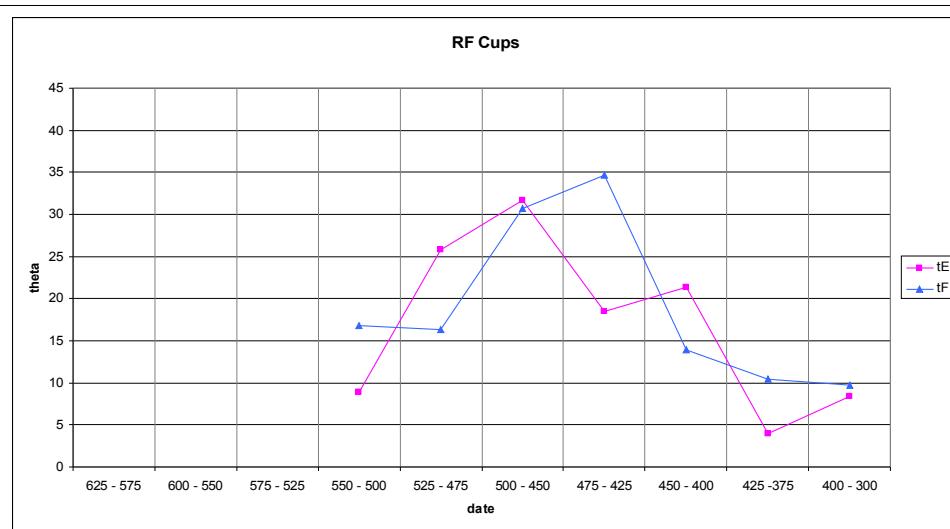
Figures Chapter 4.1 Cups



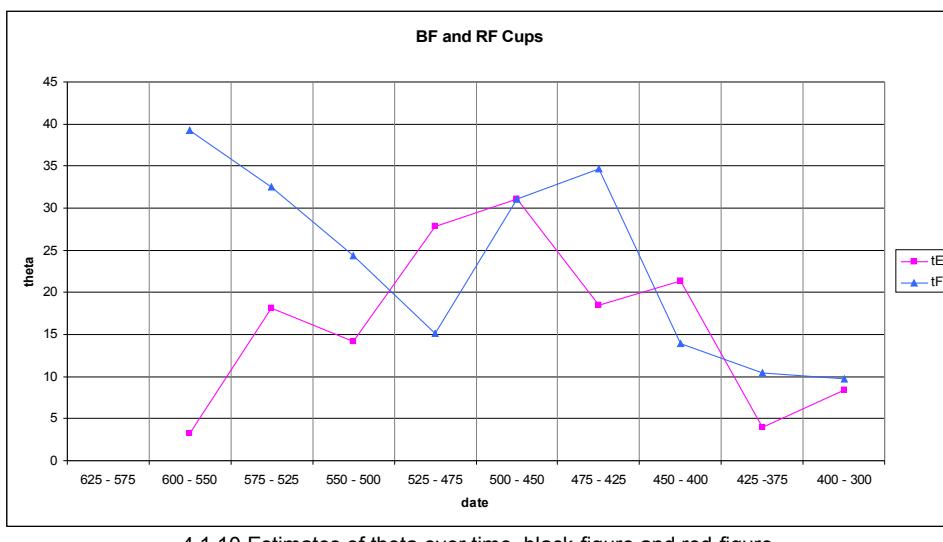




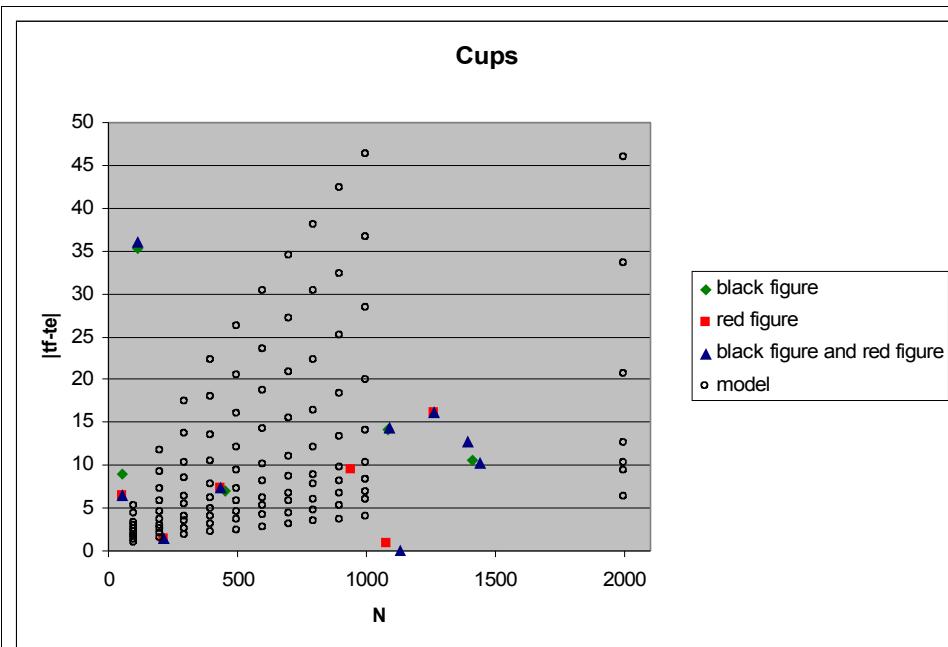
4.1.8 Estimates of theta over time, black-figure.



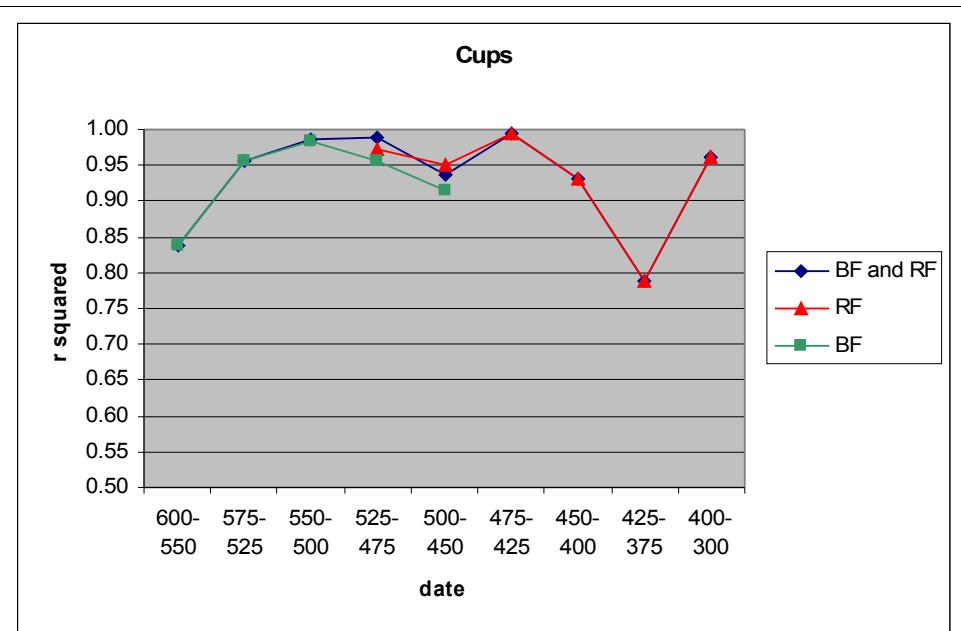
4.1.9 Estimates of theta over time, red-figure.



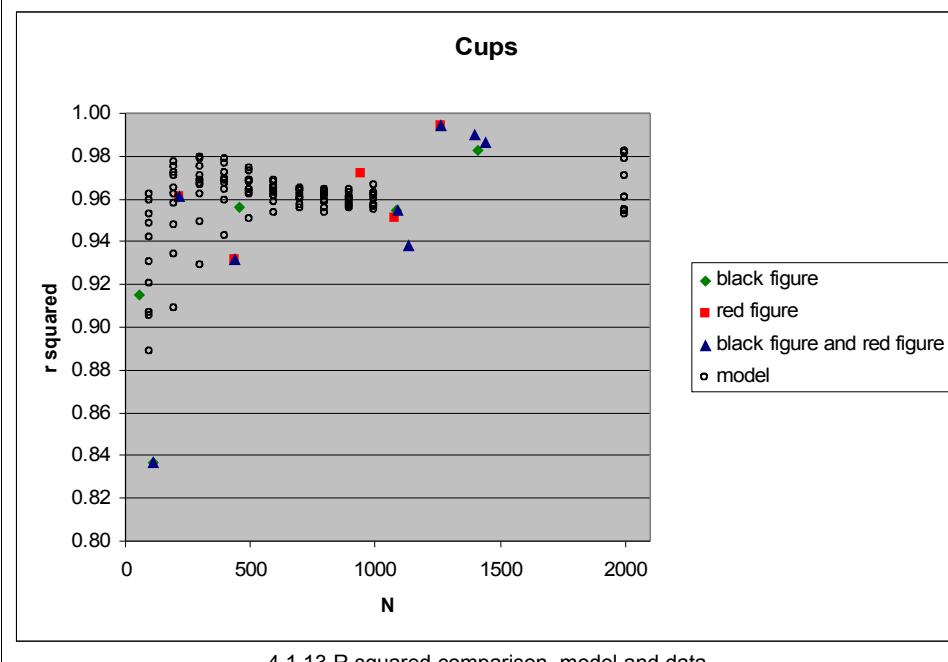
4.1.10 Estimates of theta over time, black-figure and red-figure.



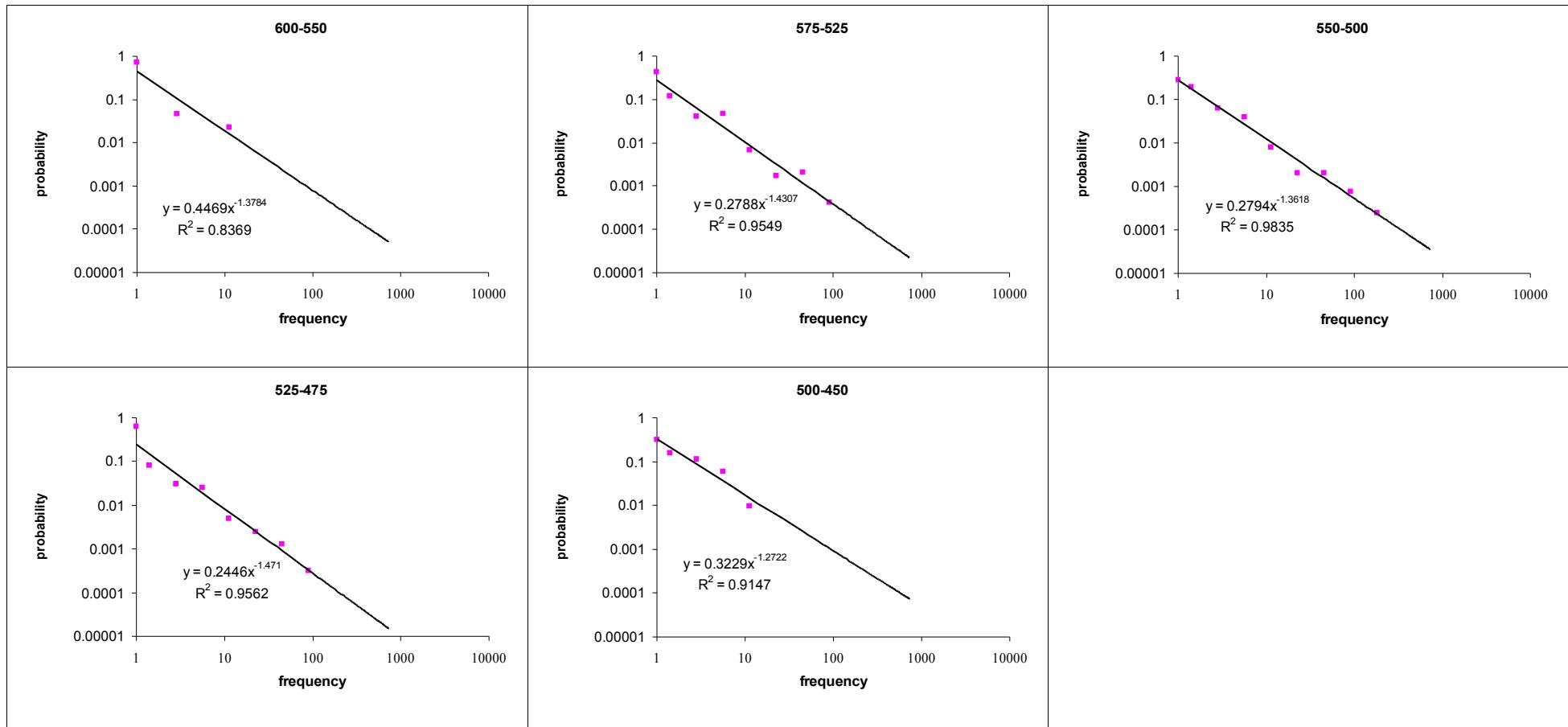
4.1.11 $|tf-te|$ comparison, model and data



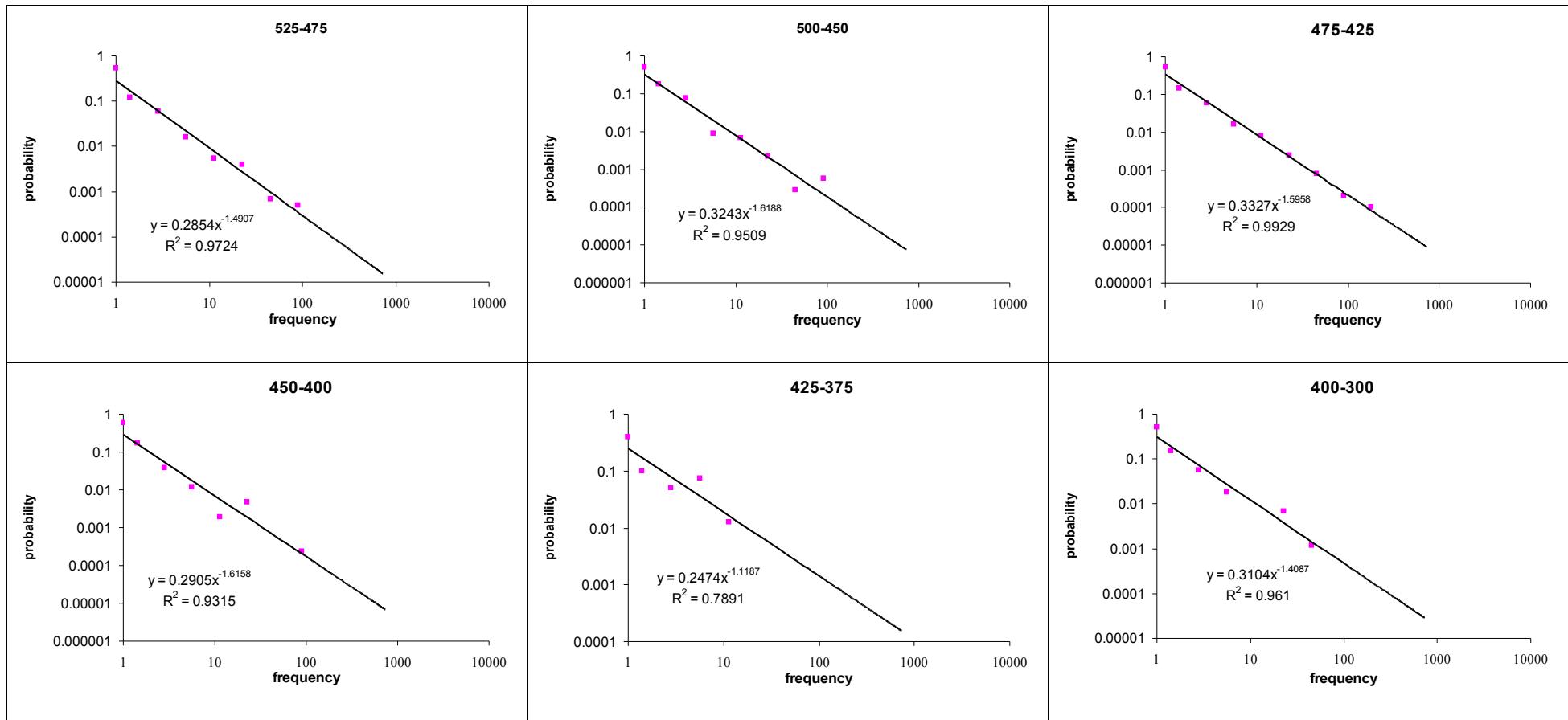
4.1.12 r^2 values over time



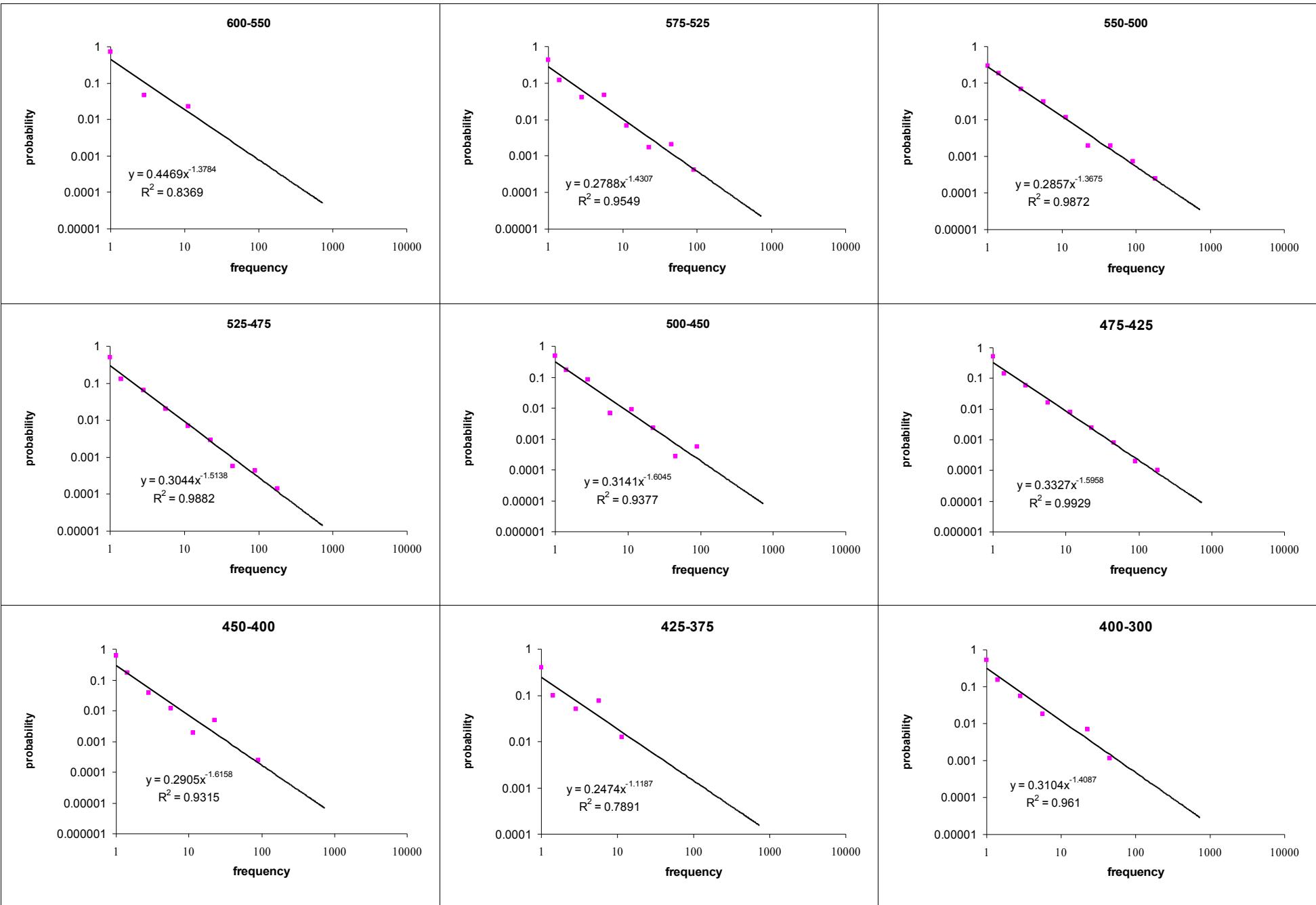
4.1.13 r^2 comparison, model and data



4.1.14 Power laws by date, black-figure cups

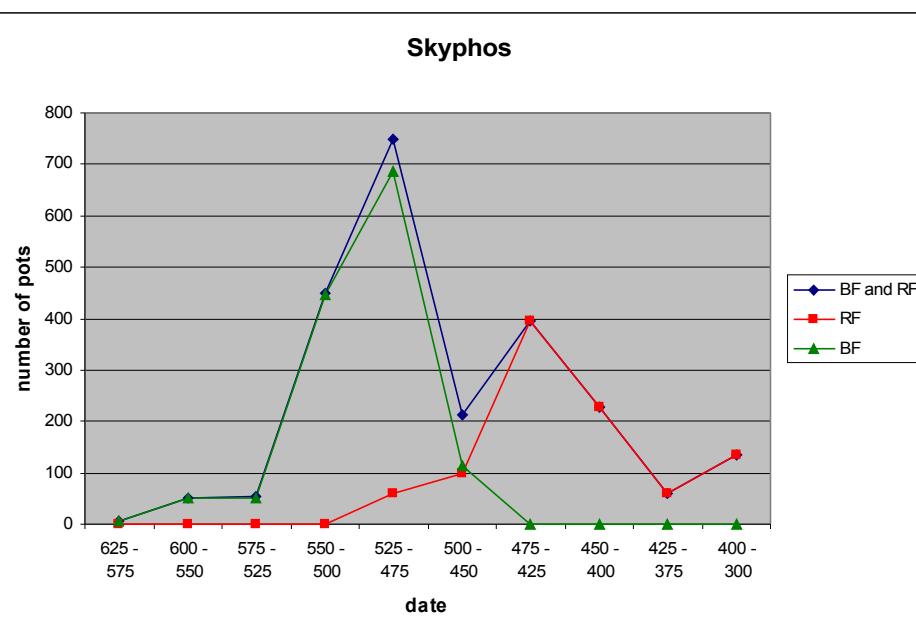


4.1.15 Power laws by date, red-figure cups

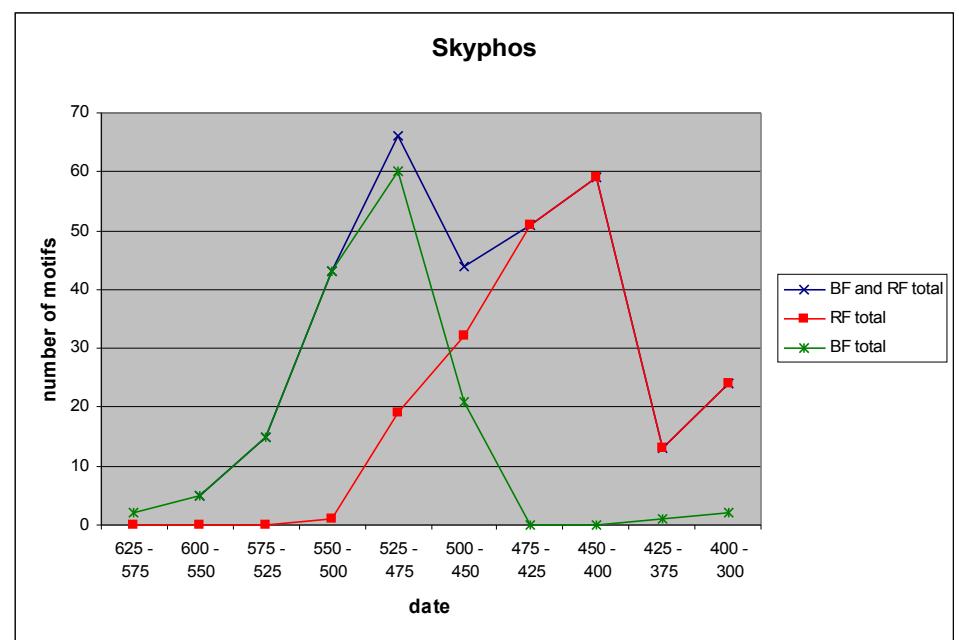


4.1.16 Power laws by date, black-figure and red-figure cups

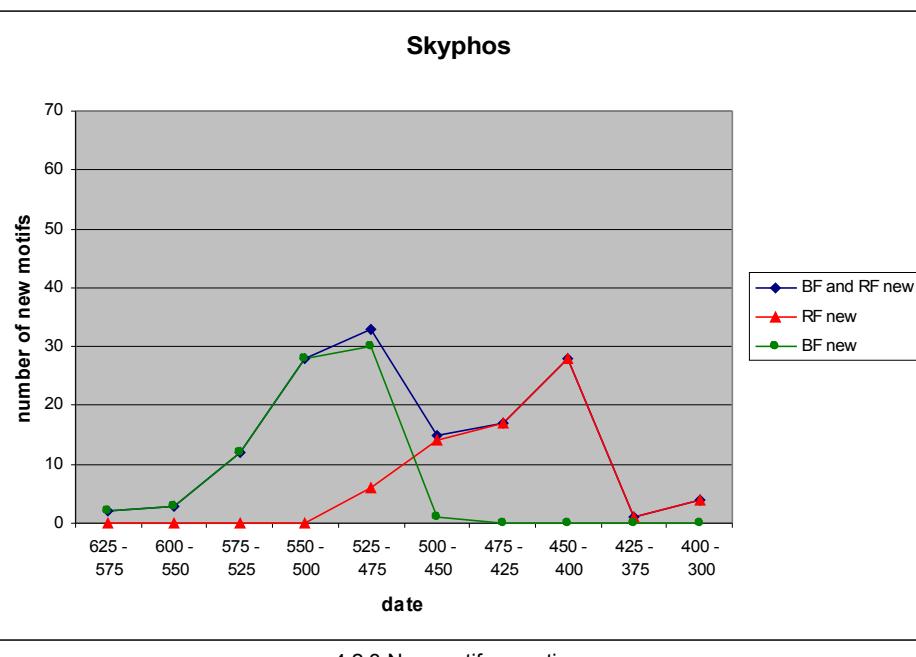
Figures Chapter 4.2 Skyphos



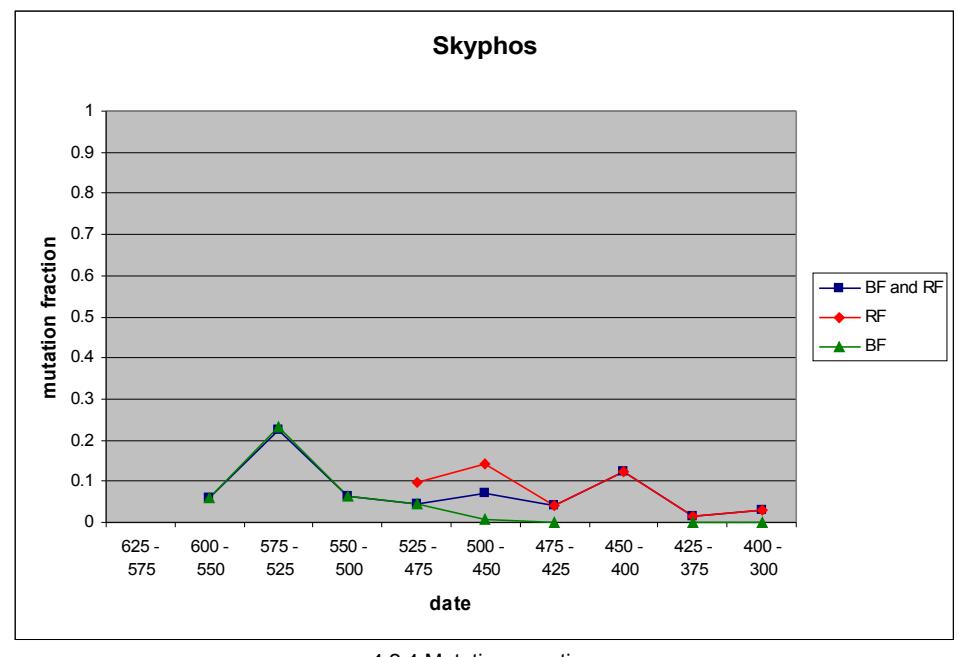
4.2.1 Sample size over time



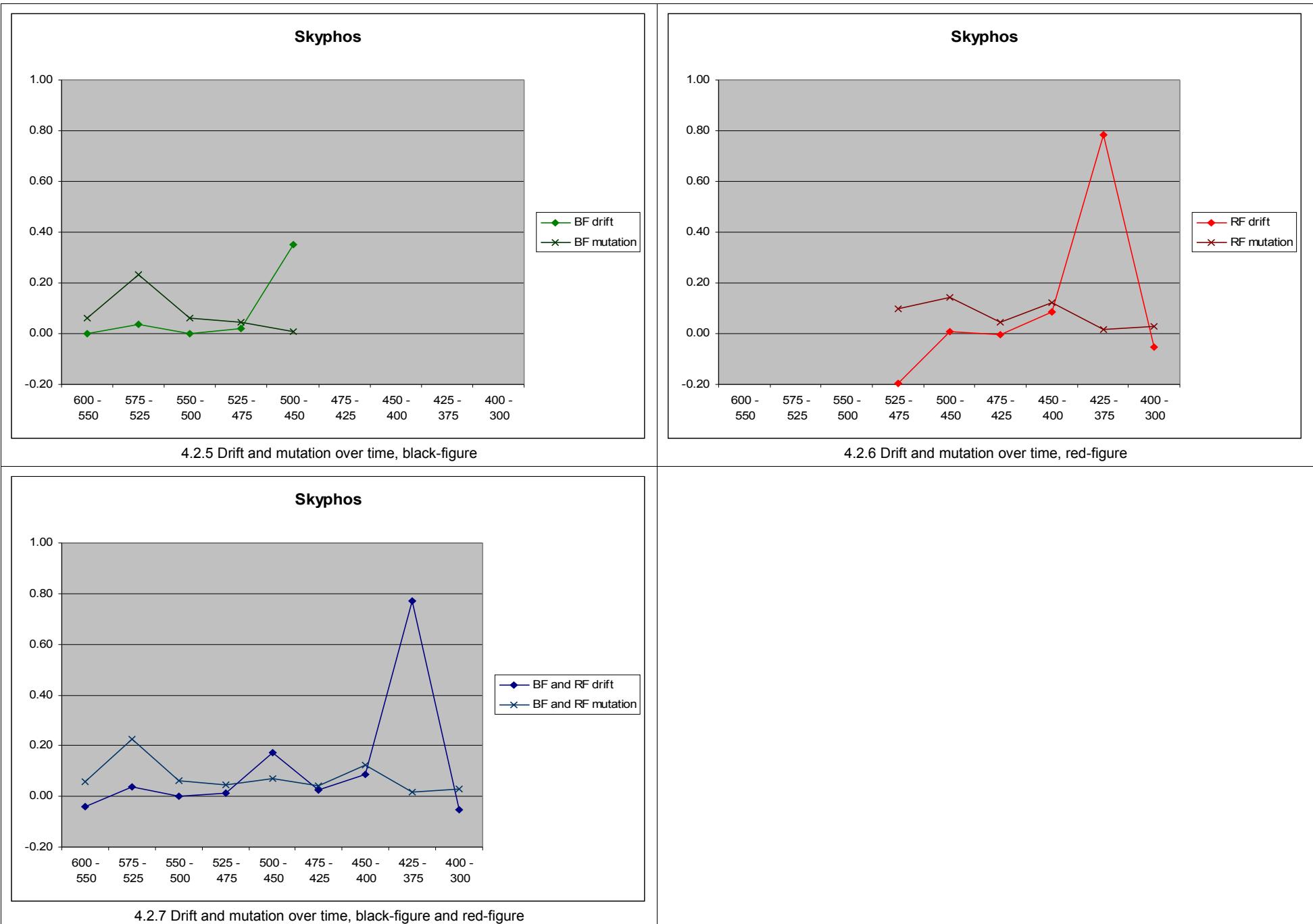
4.2.2 Motifs over time

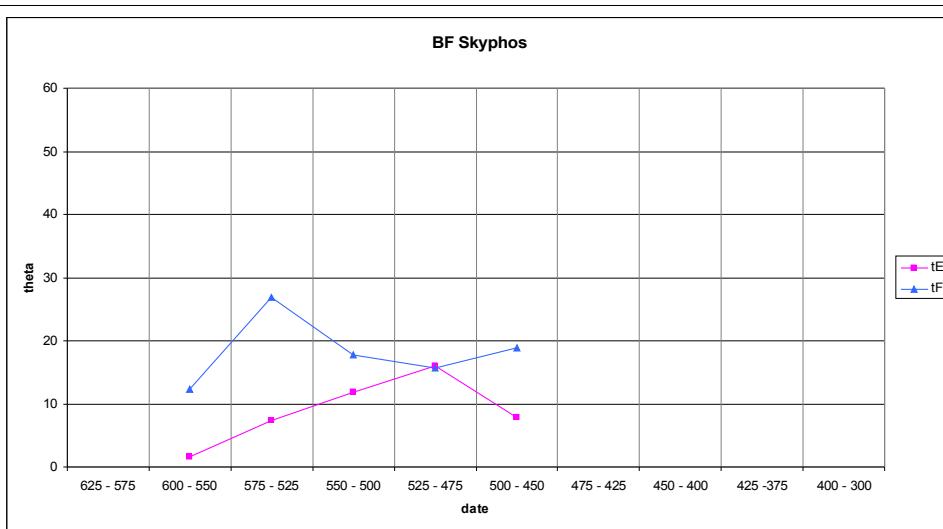


4.2.3 New motifs over time

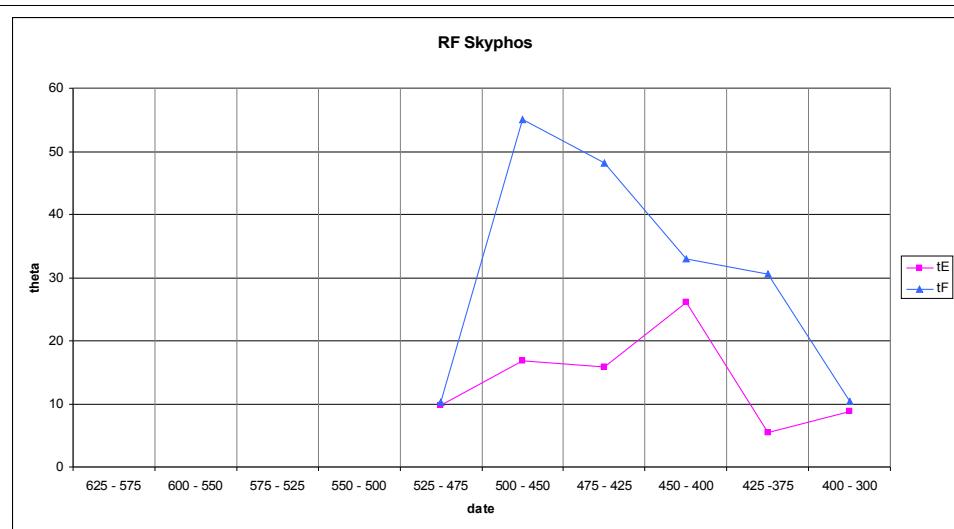


4.2.4 Mutation over time

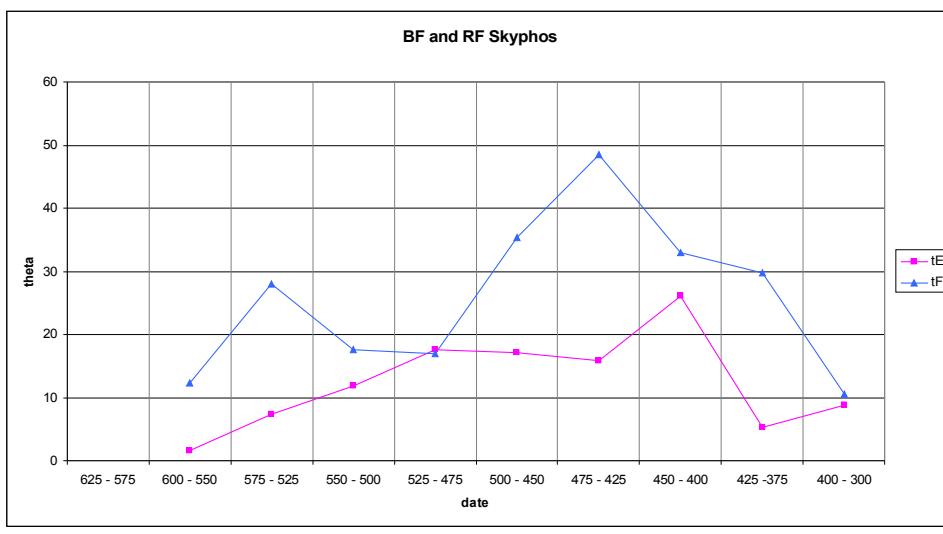




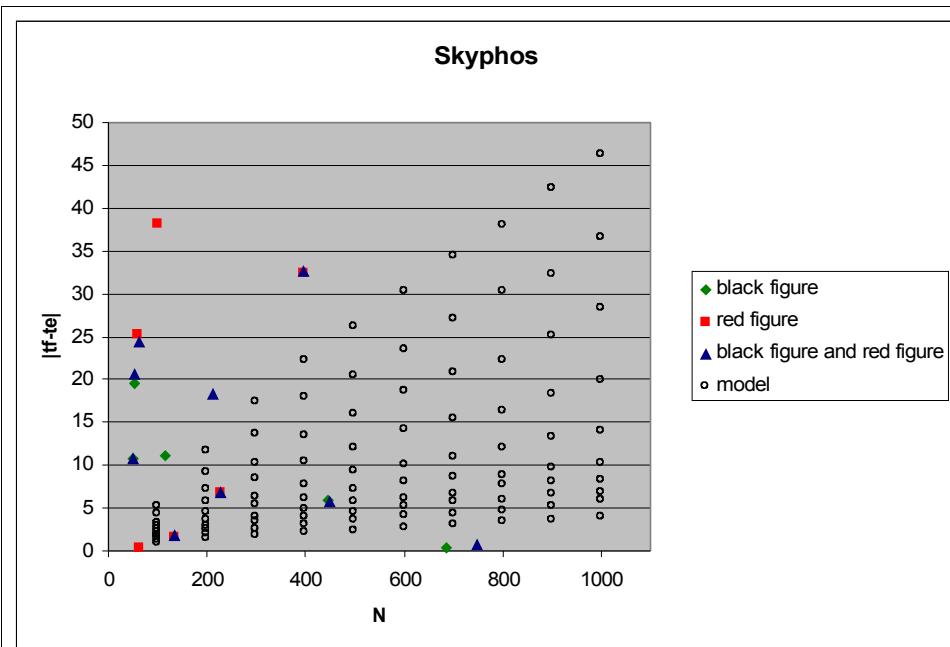
4.2.8 Estimates of theta over time, black-figure



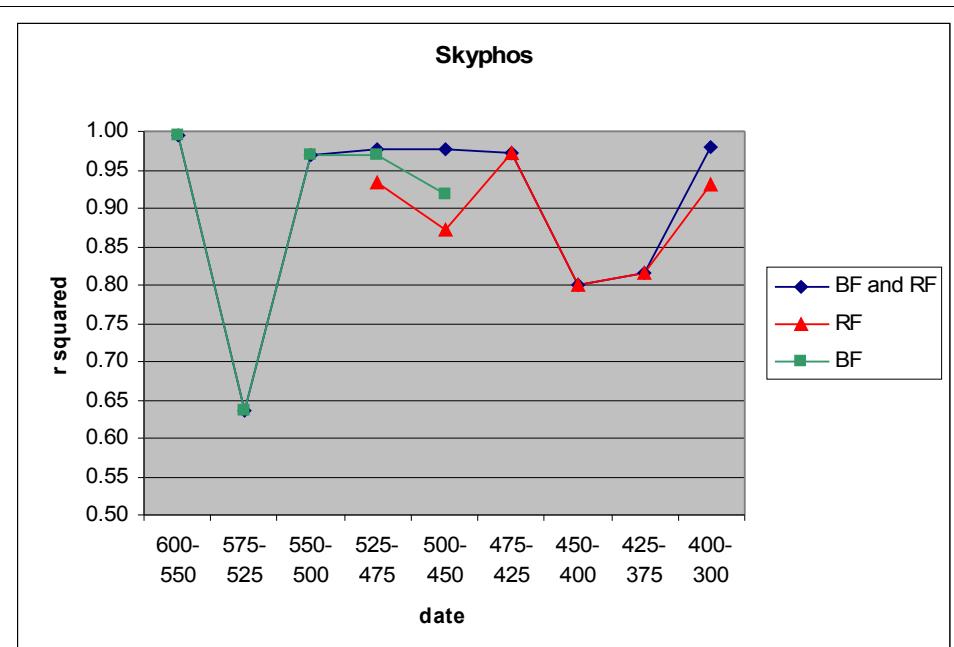
4.2.9 Estimates of theta over time, red-figure



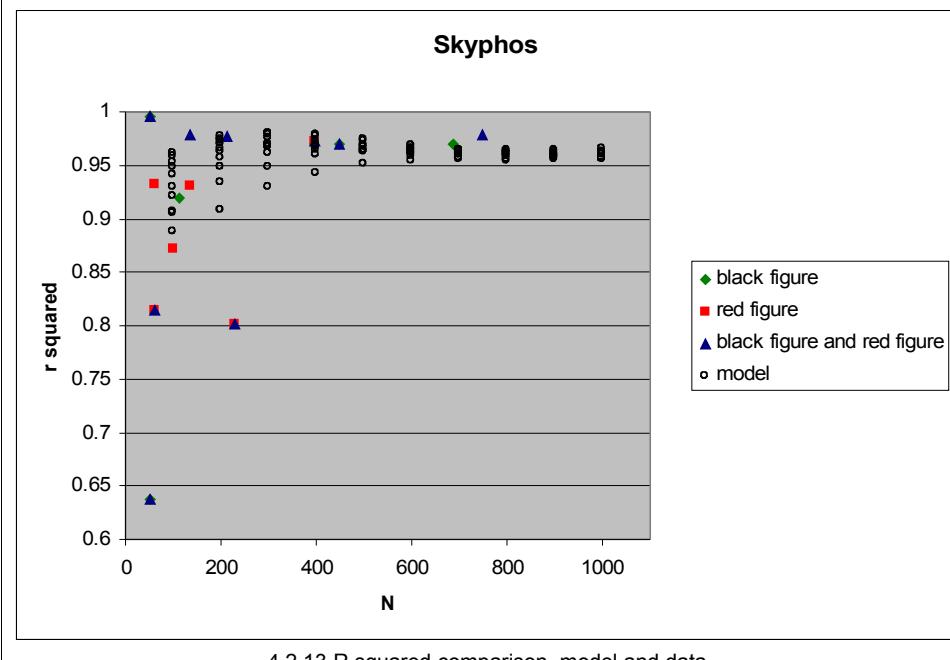
4.2.10 Estimates of theta over time, black-figure and red-figure



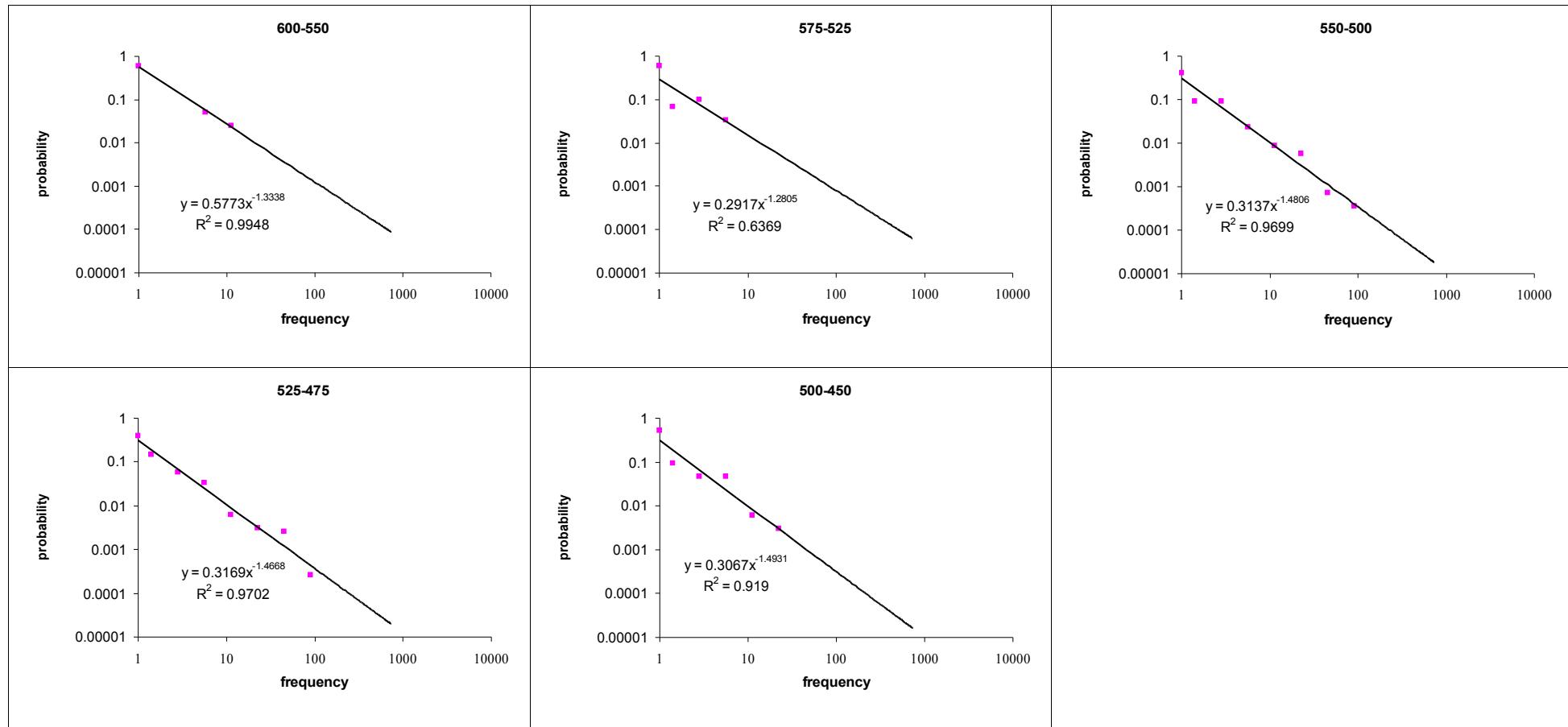
4.2.11 $|tf-te|$ comparison, model and data



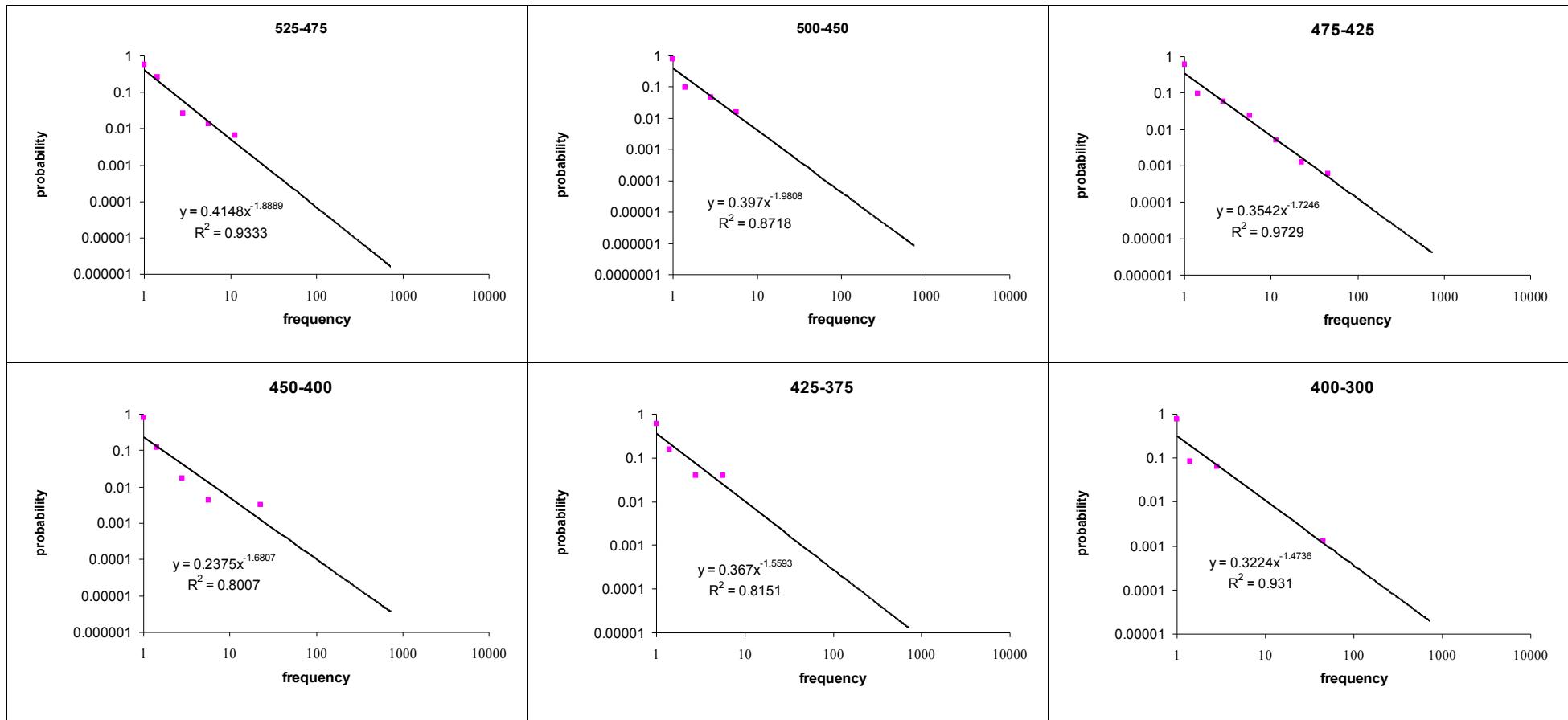
4.2.12 r^2 values over time



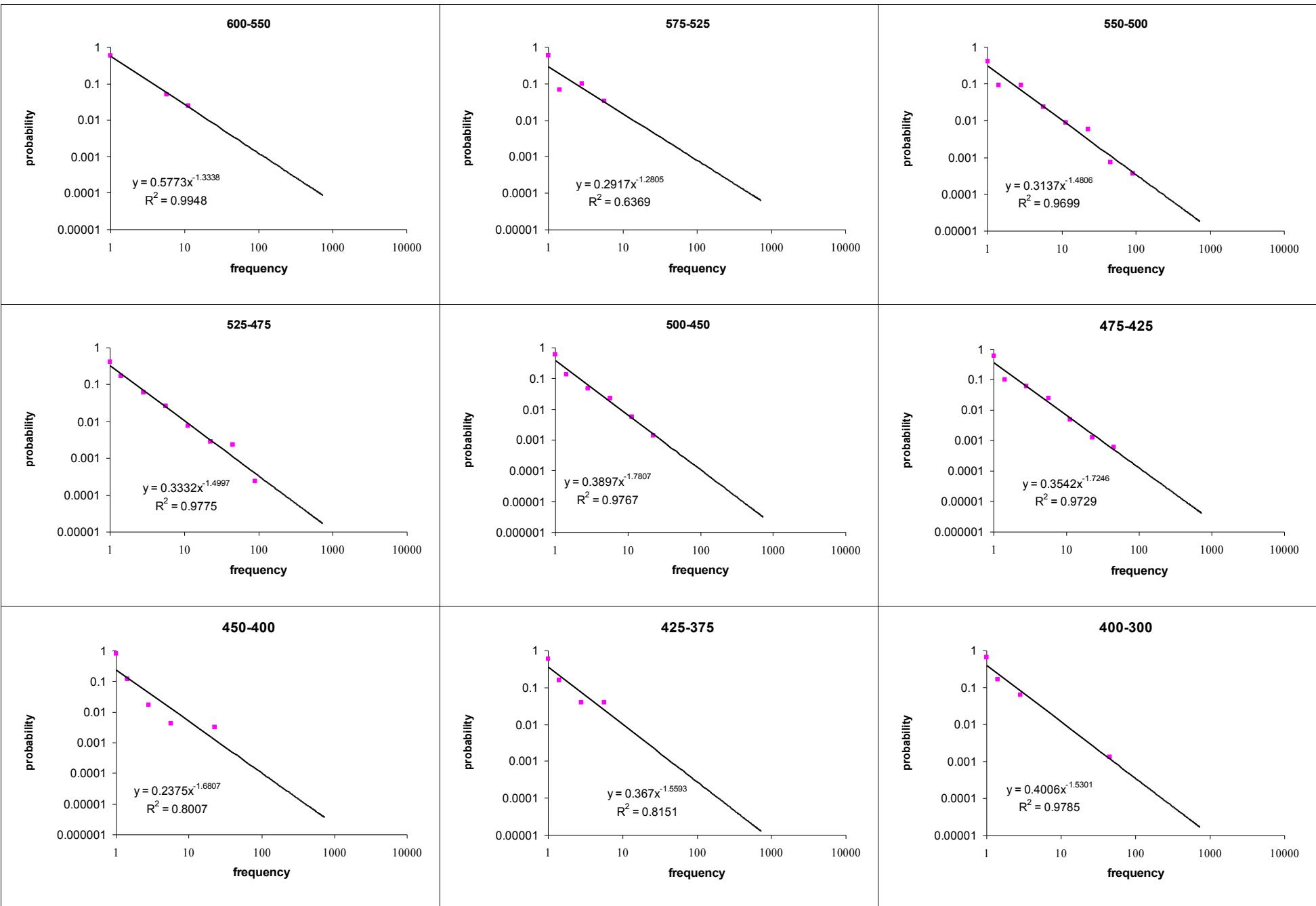
4.2.13 r^2 comparison, model and data



4.2.14 Power laws by date, black-figure skyphos

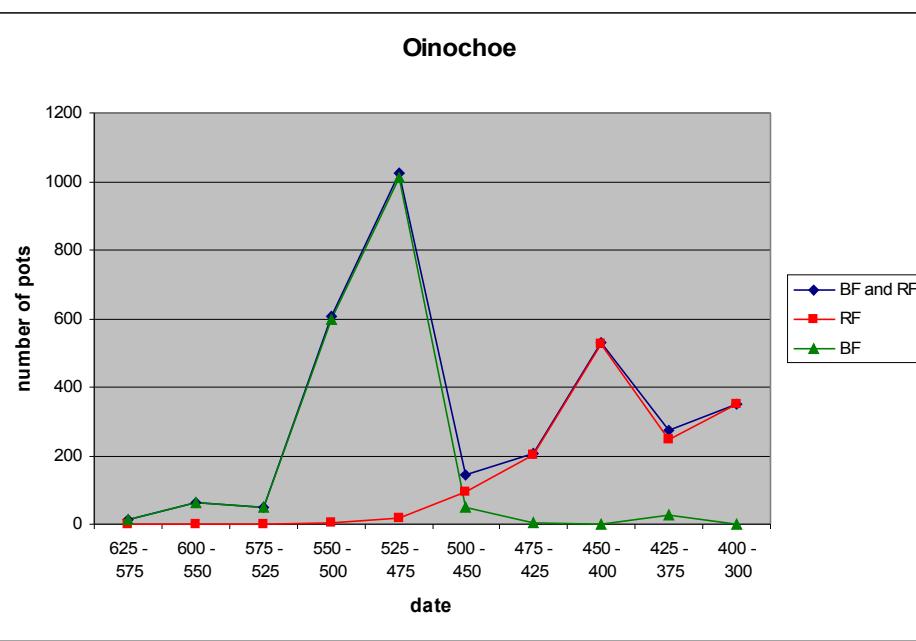


4.2.15 Power laws by date, red-figure skyphos

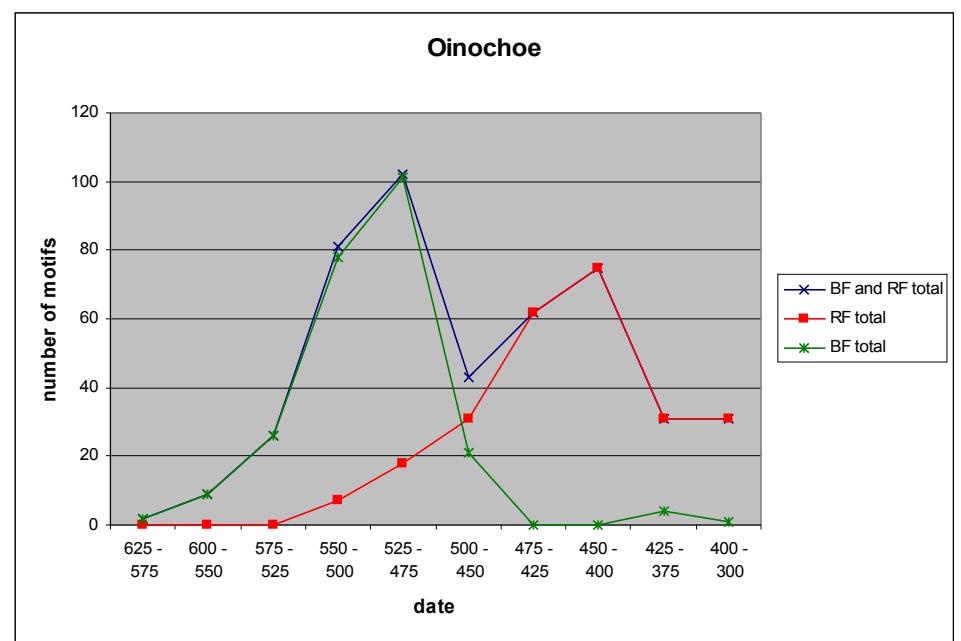


4.2.16 Power laws by date, black-figure and red-figure skyphos

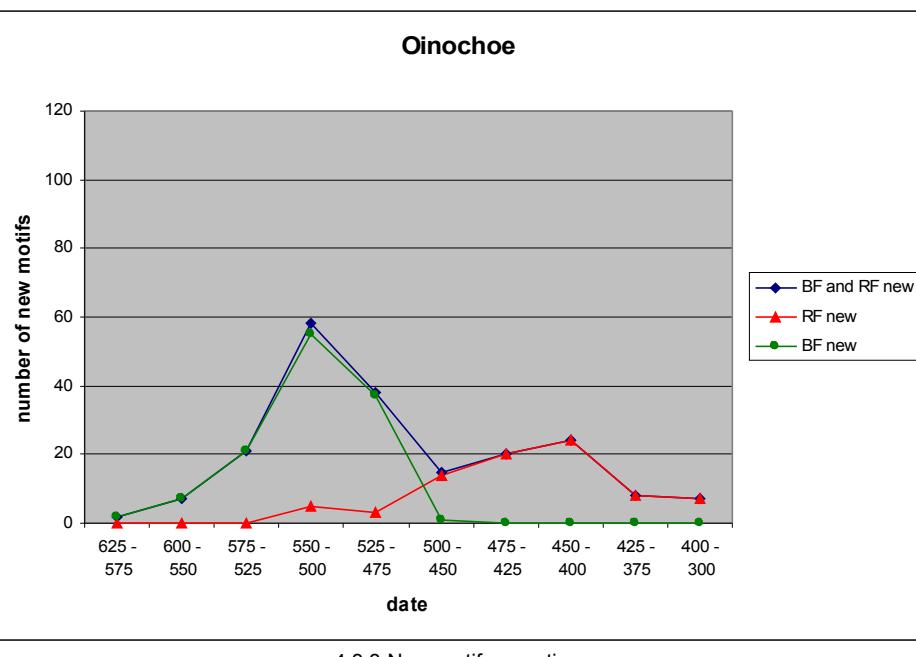
Figures Chapter 4.3 Oinochoe



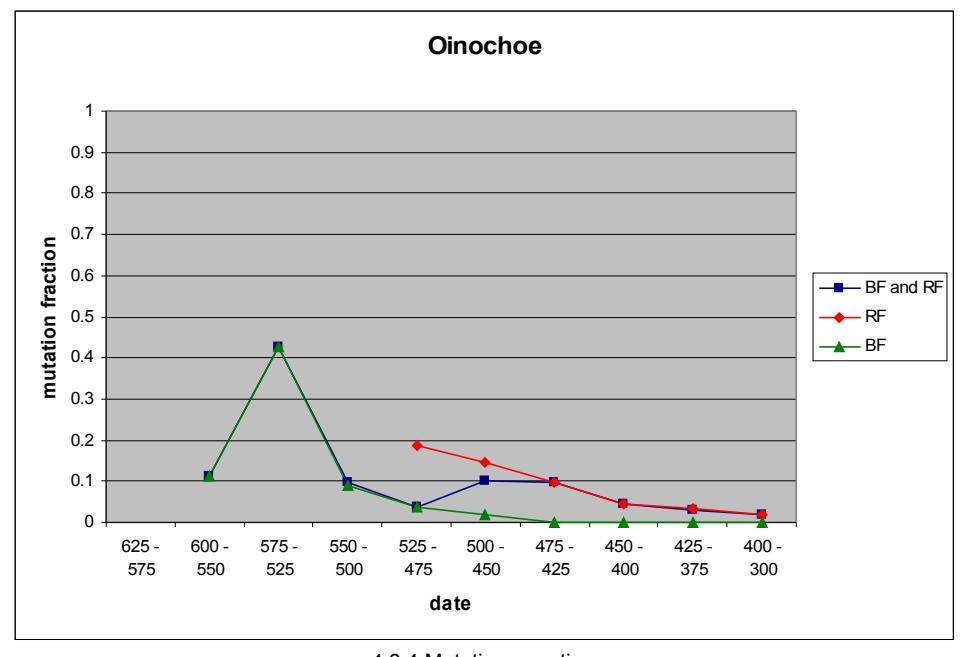
4.3.1 Sample size over time



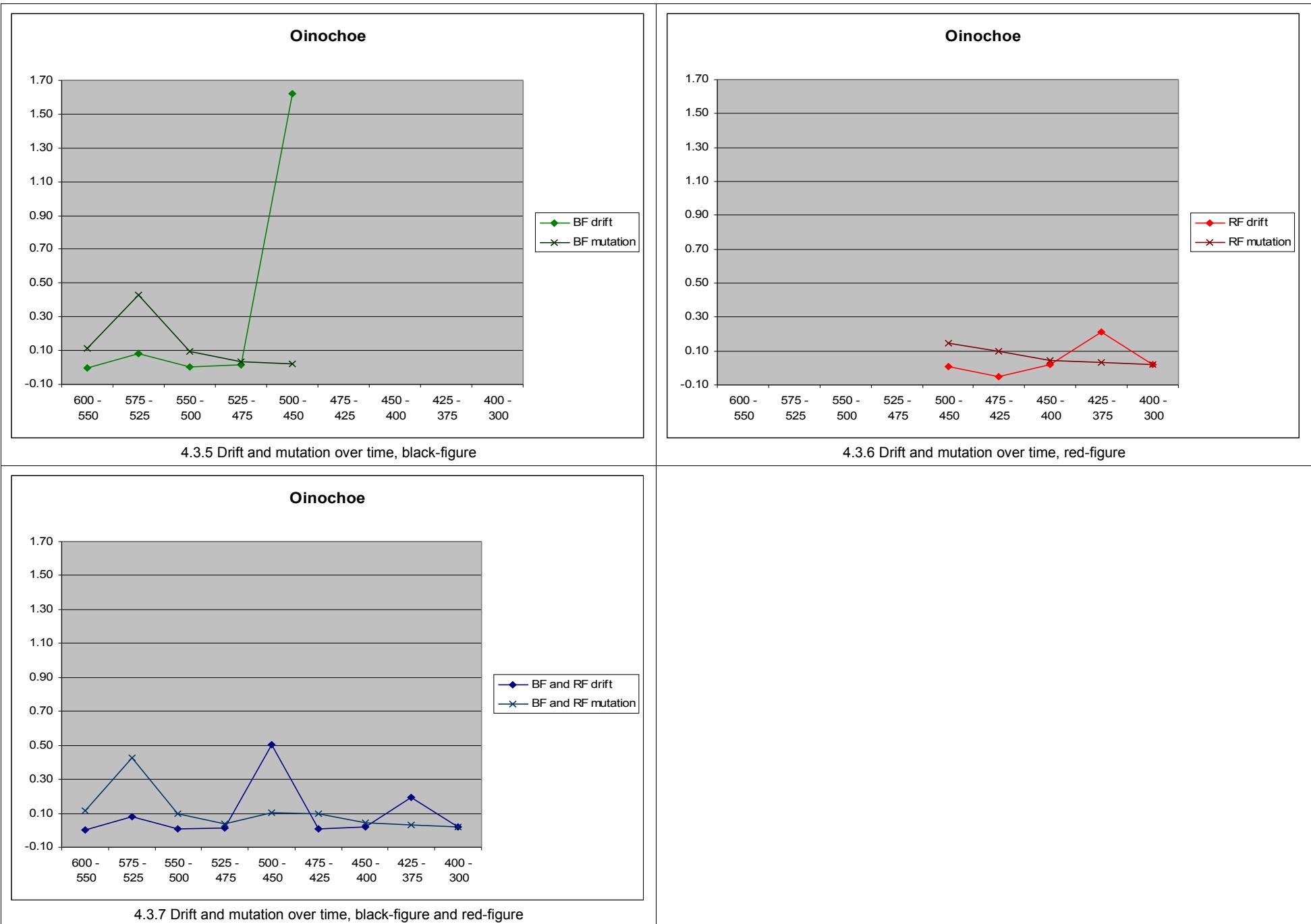
4.3.2 Motifs over time

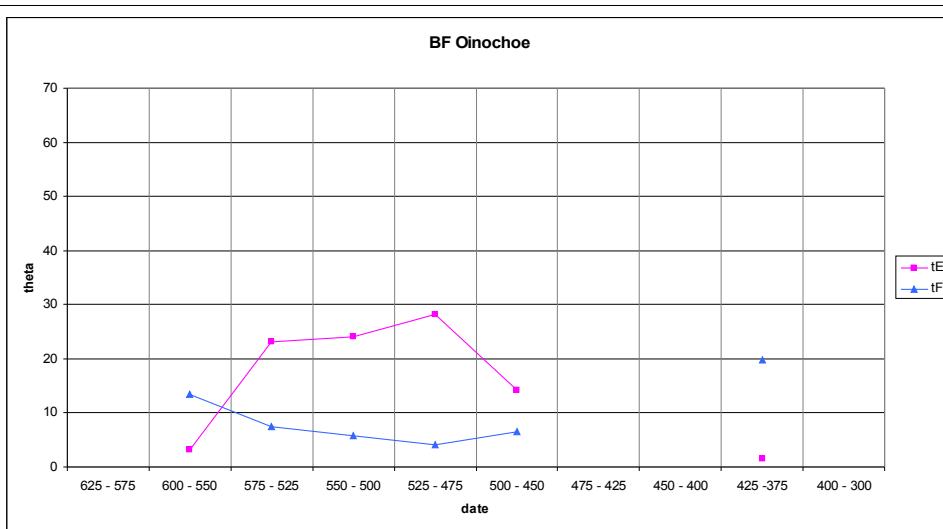


4.3.3 New motifs over time

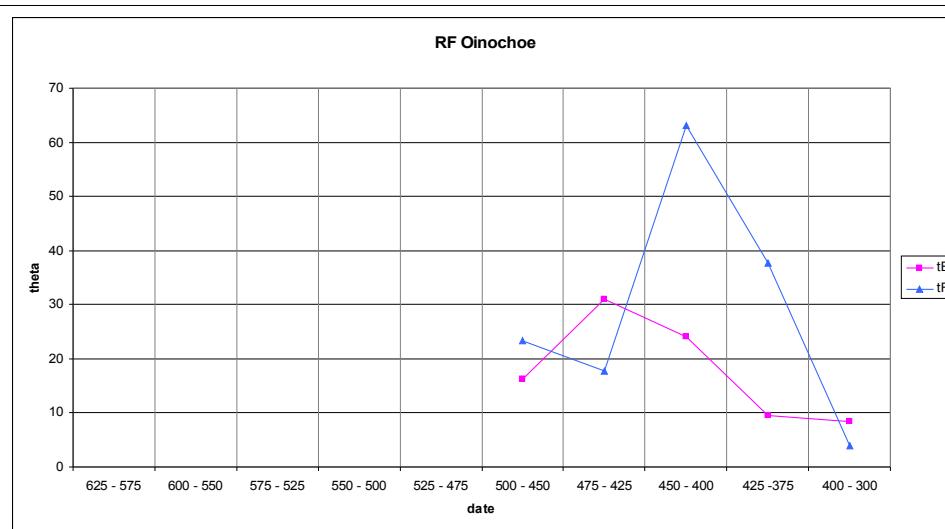


4.3.4 Mutation over time





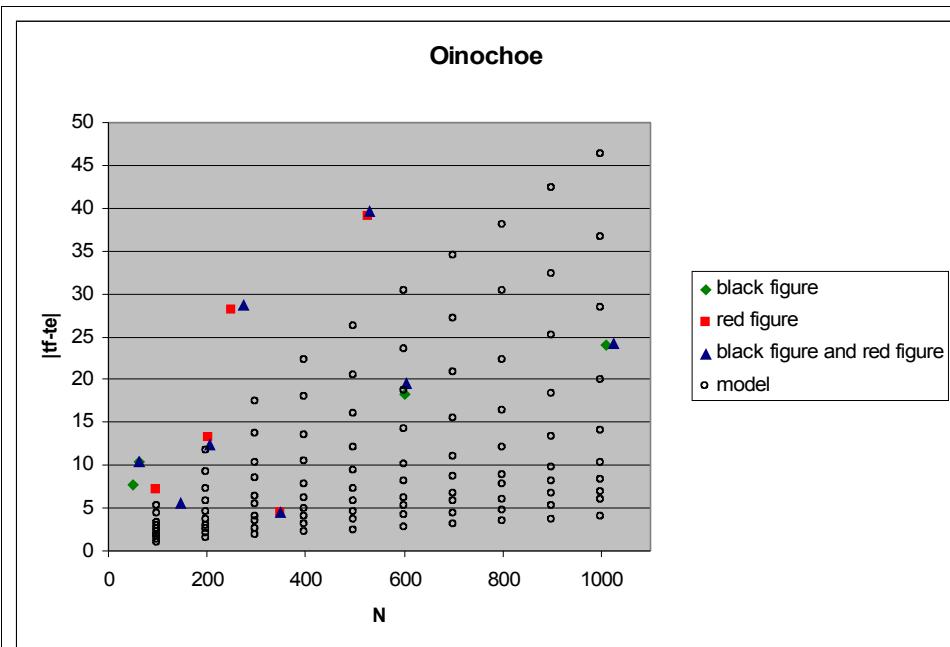
4.3.8 Estimates of theta over time, black-figure



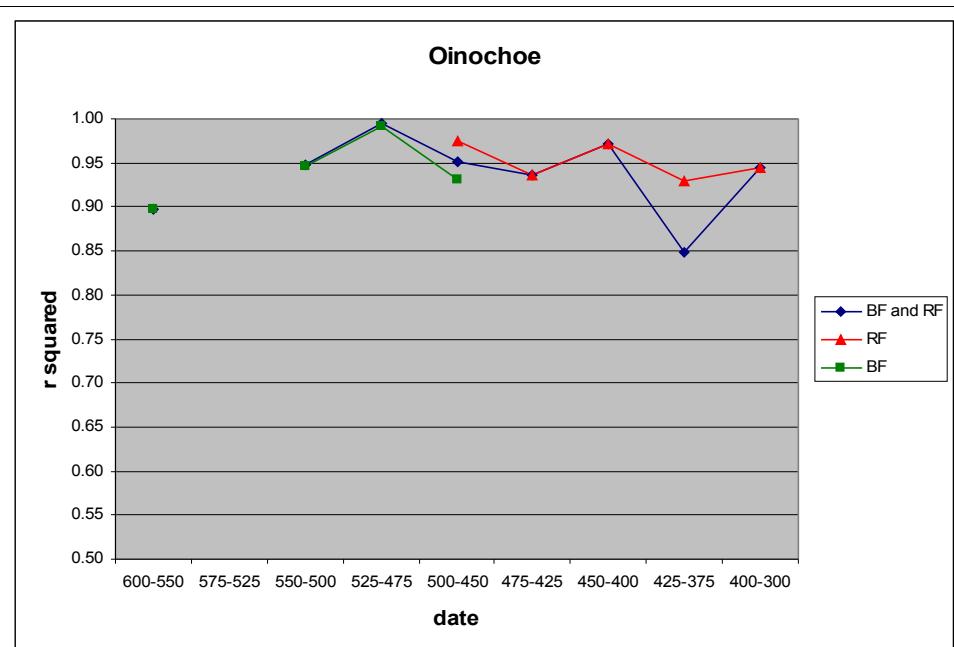
4.3.9 Estimates of theta over time, red-figure



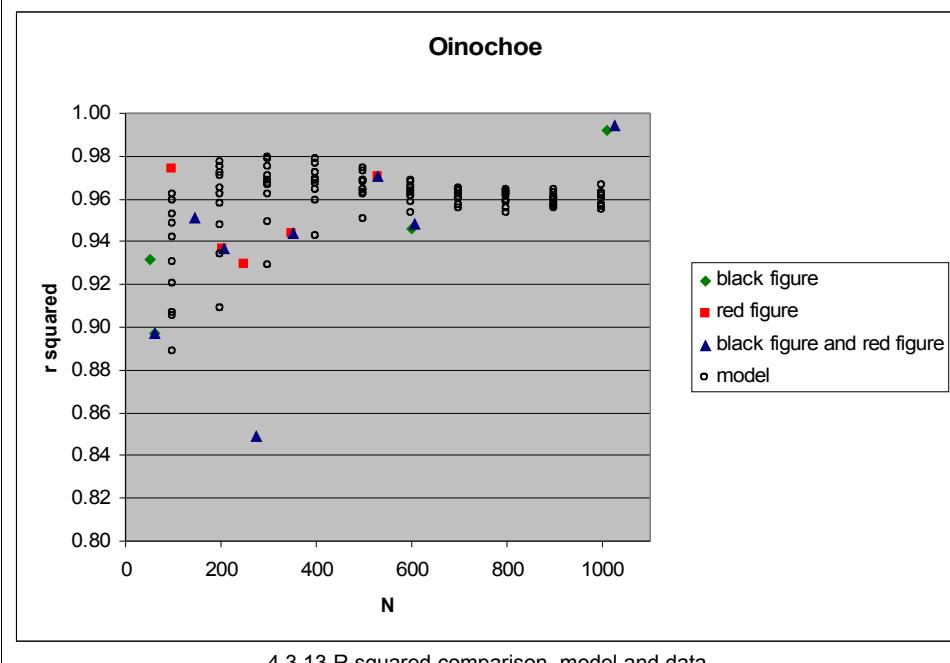
4.3.10 Estimates of theta over time, black-figure and red-figure



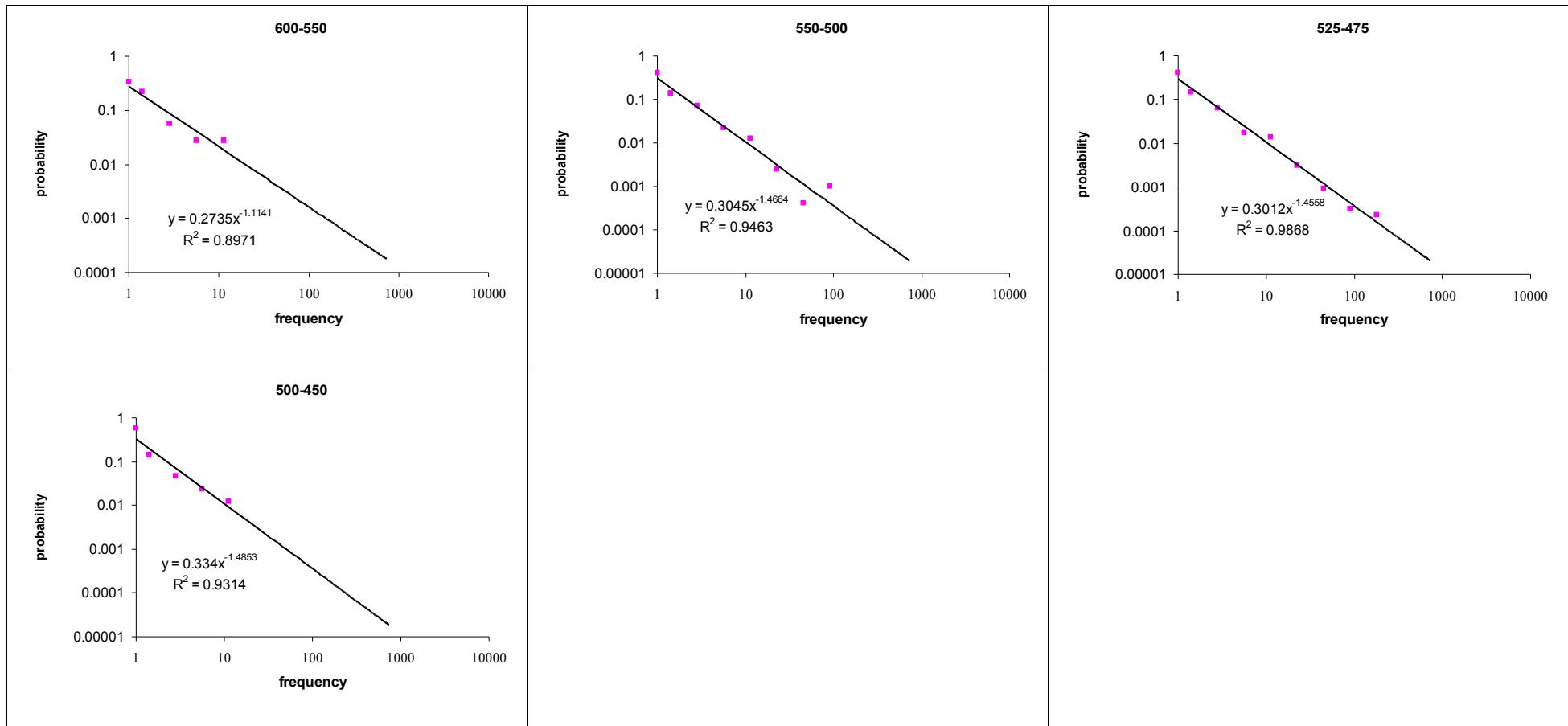
4.3.11 $|tf-te|$ comparison, model and data



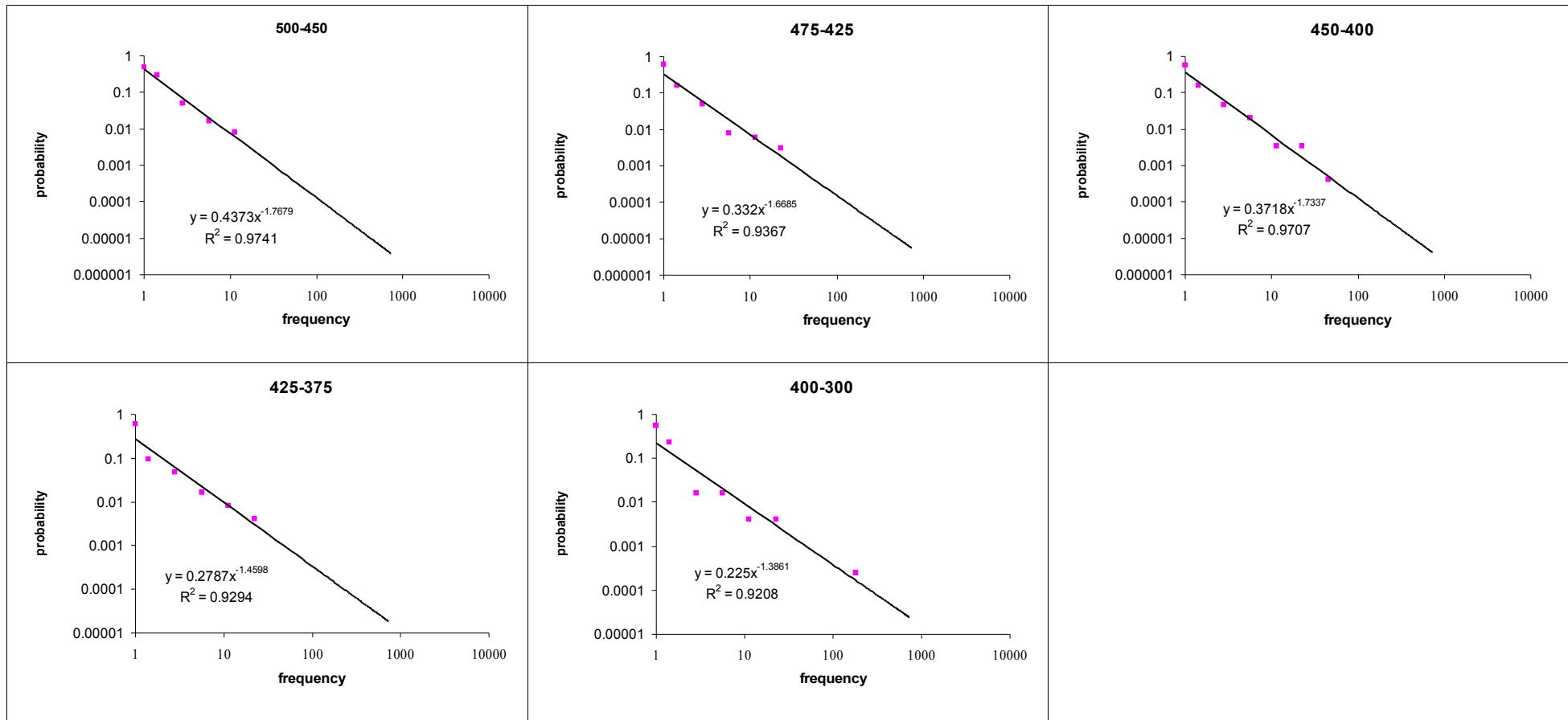
4.3.12 R^2 values over time



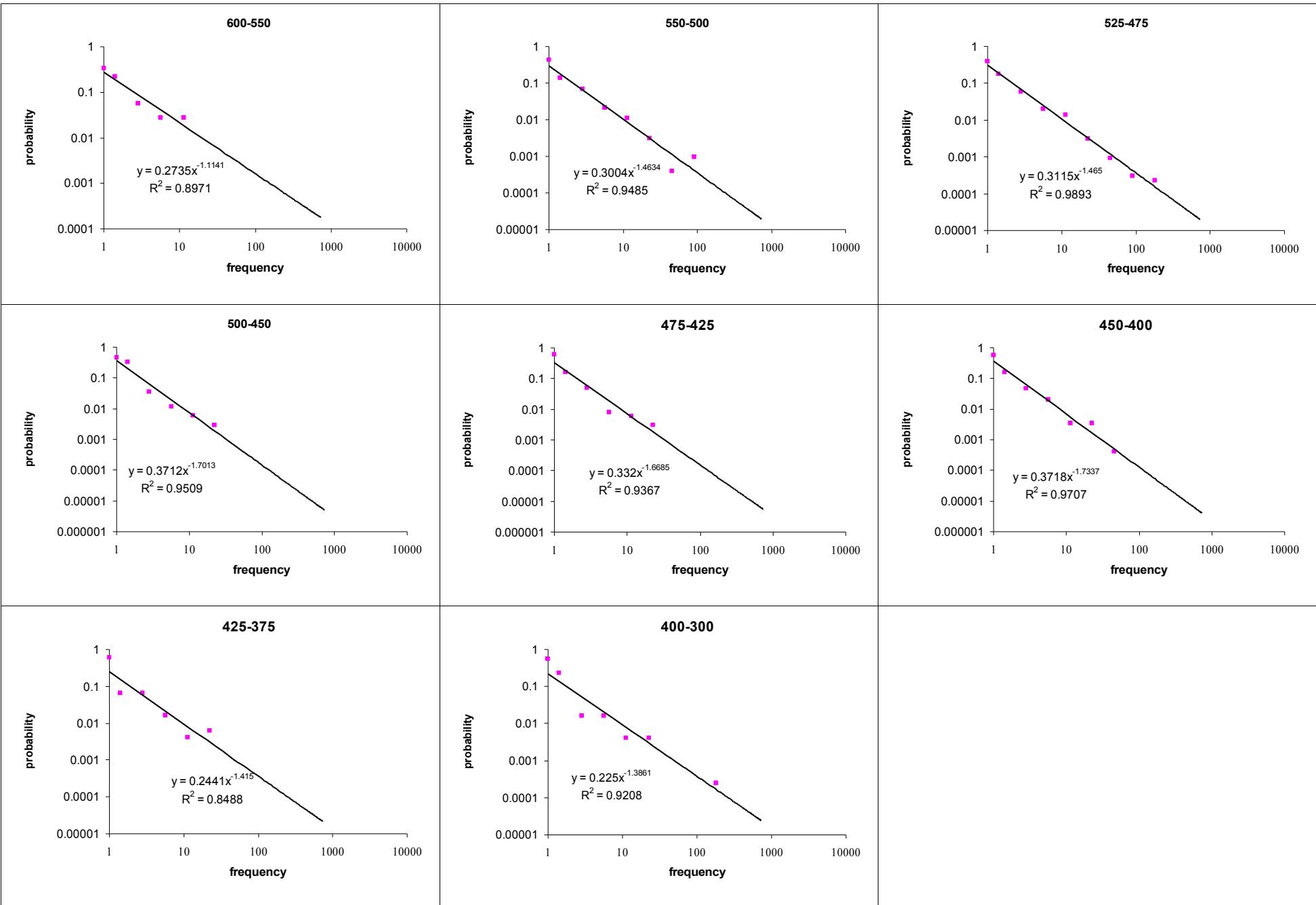
4.3.13 R^2 comparison, model and data



4.3.14 Power laws by date, black-figure oinochoe

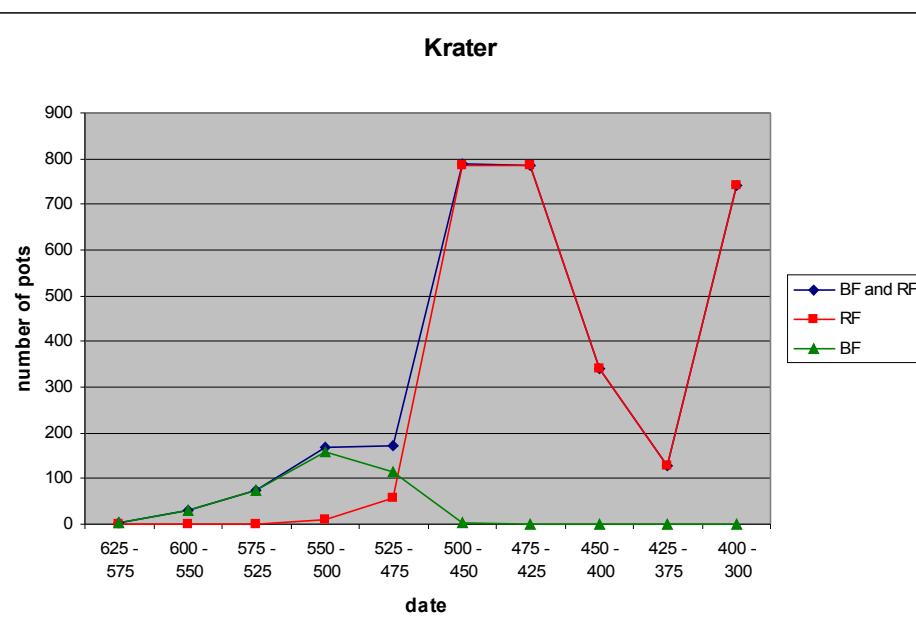


4.3.15 Power laws by date, red-figure oinochoe

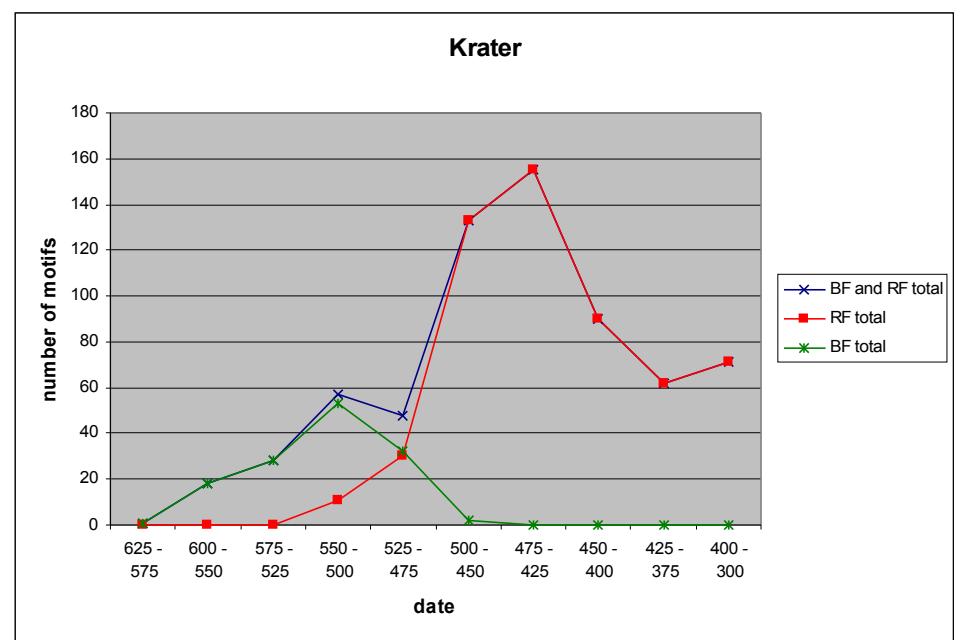


4.3.16 Power laws by date, black-figure and red-figure oinochoe

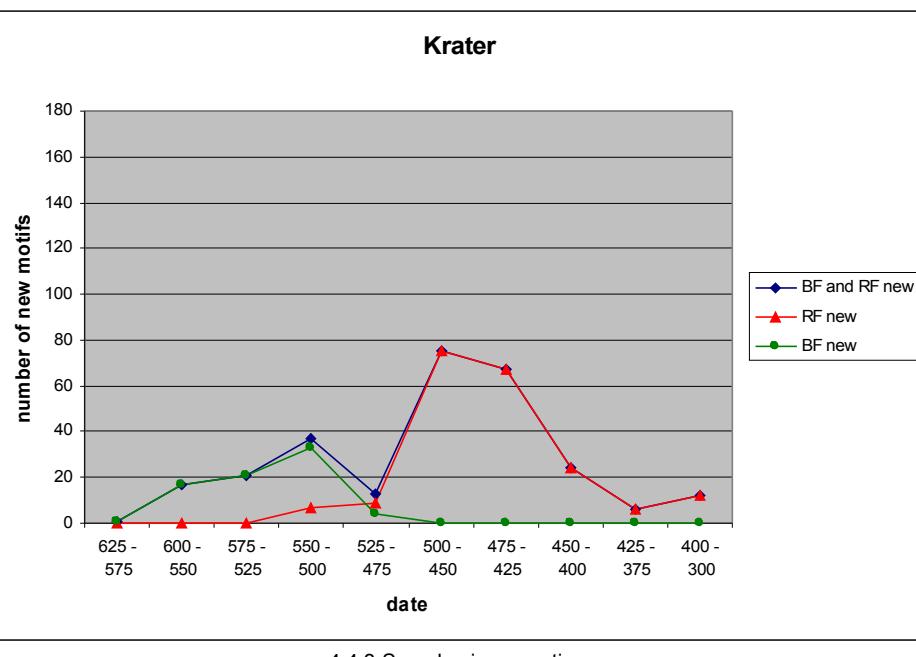
Figures Chapter 4.4 Krater



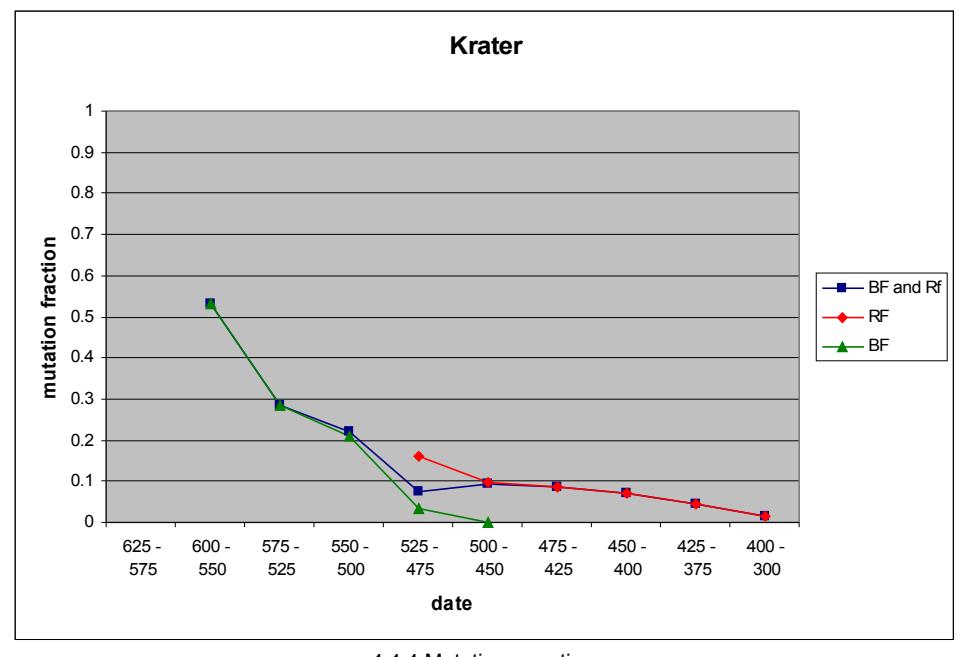
4.4.1 Sample size over time



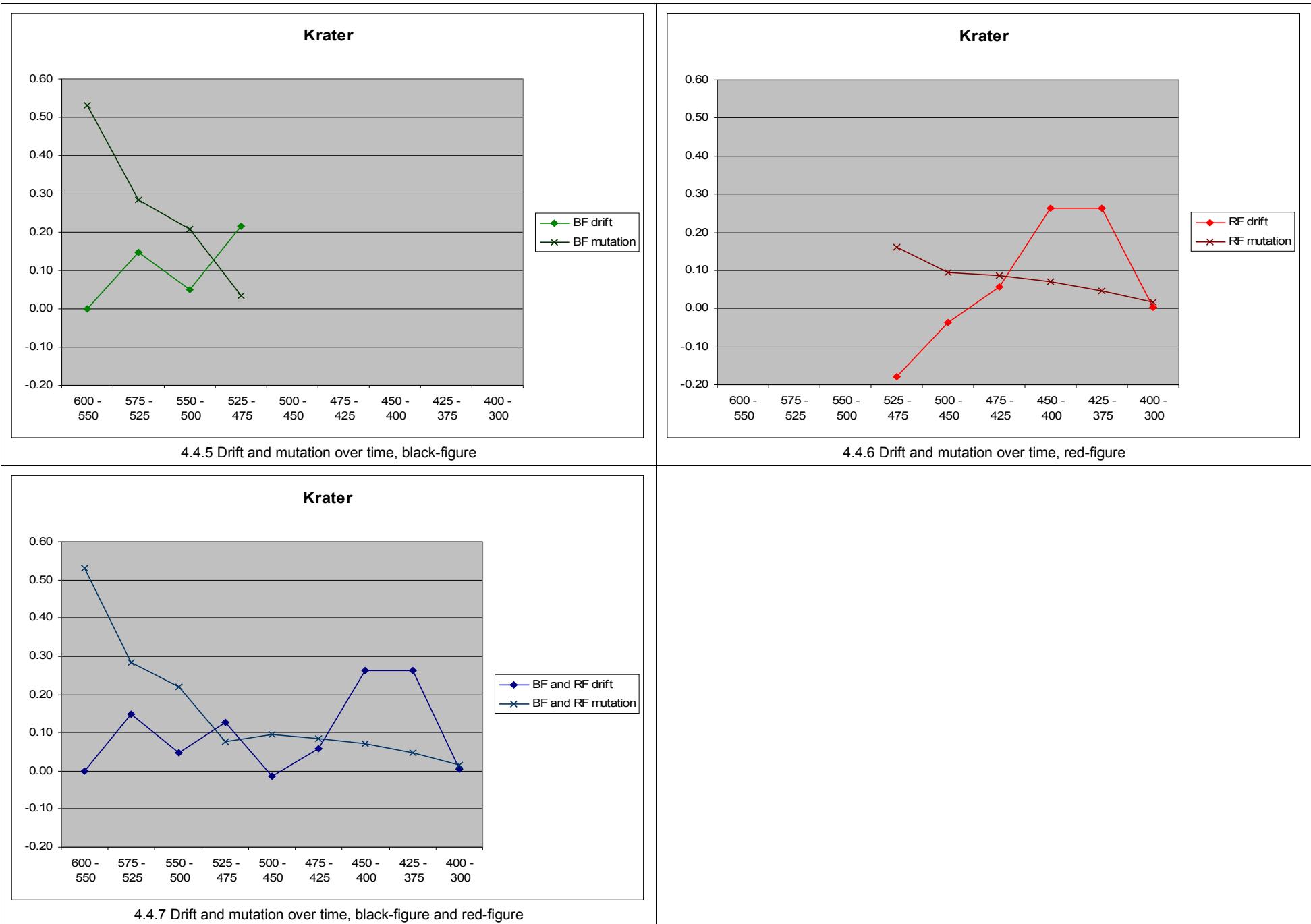
4.4.2 Motifs over time

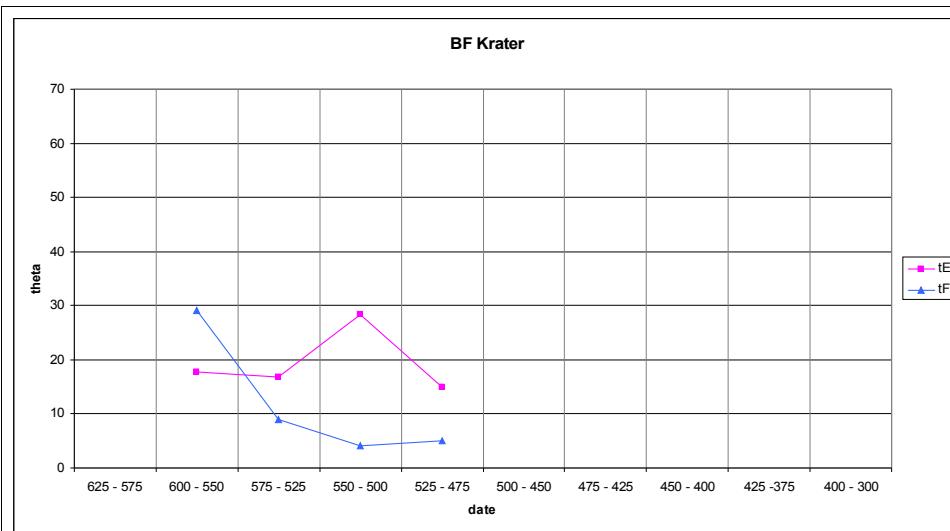


4.4.3 Sample size over time

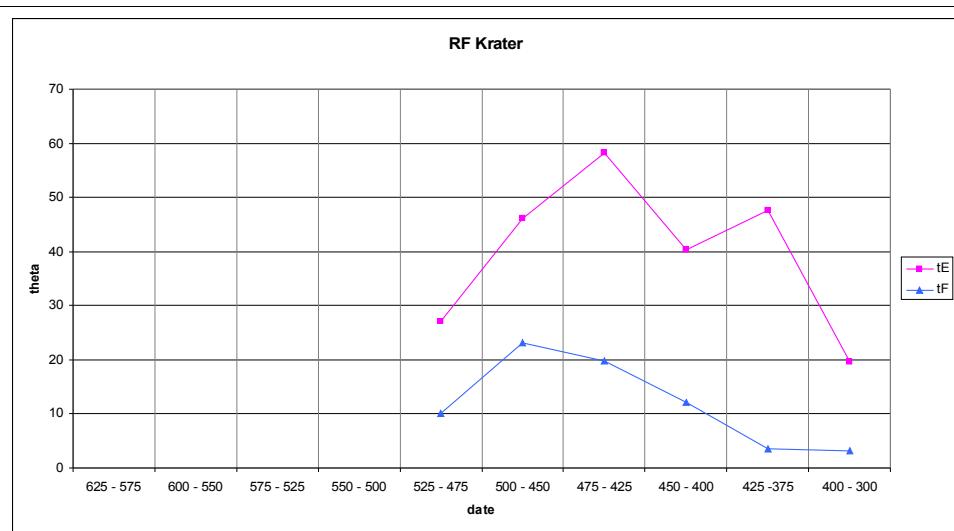


4.4.4 Mutation over time

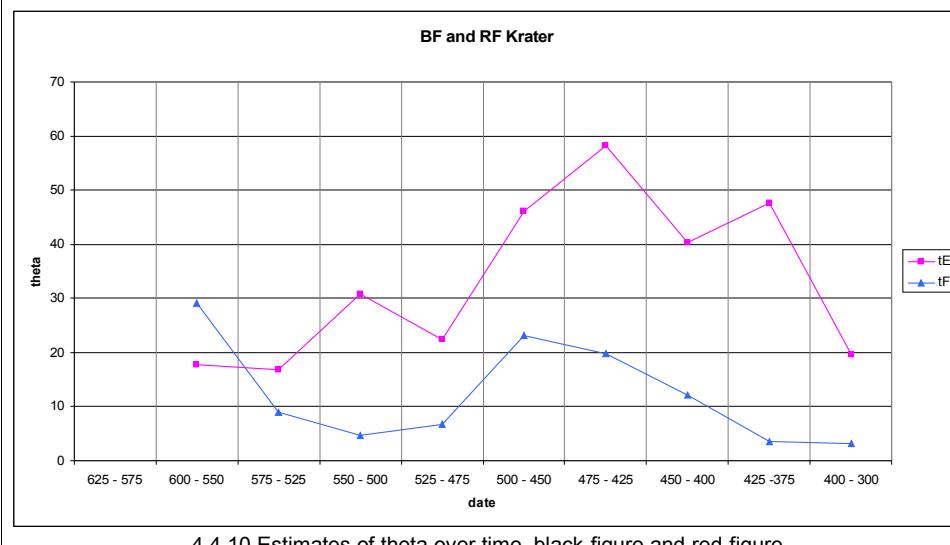




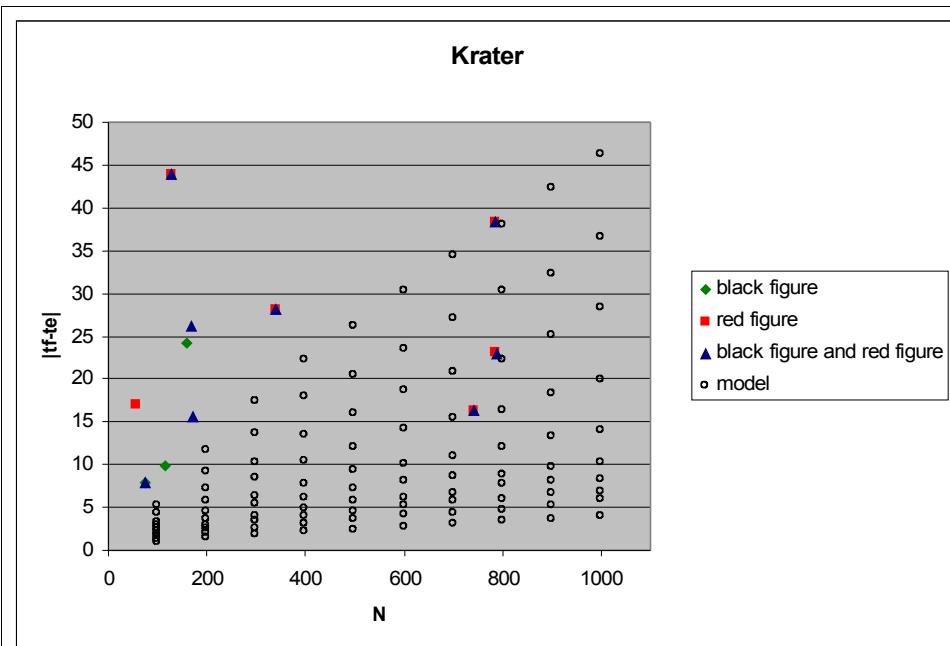
4.4.8 Estimates of theta over time, black-figure



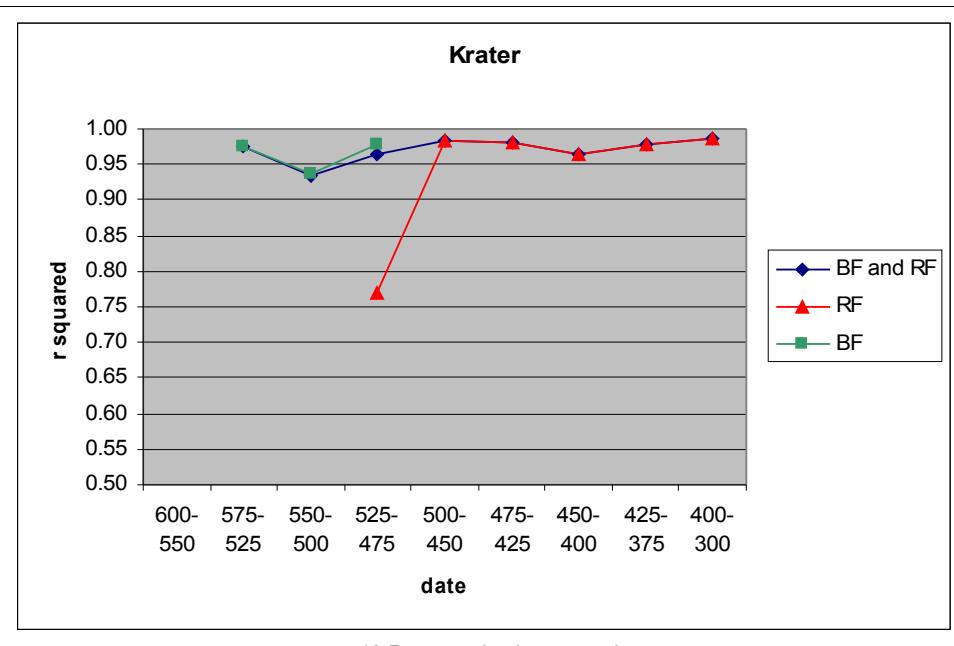
4.4.9 Estimates of theta over time, red-figure



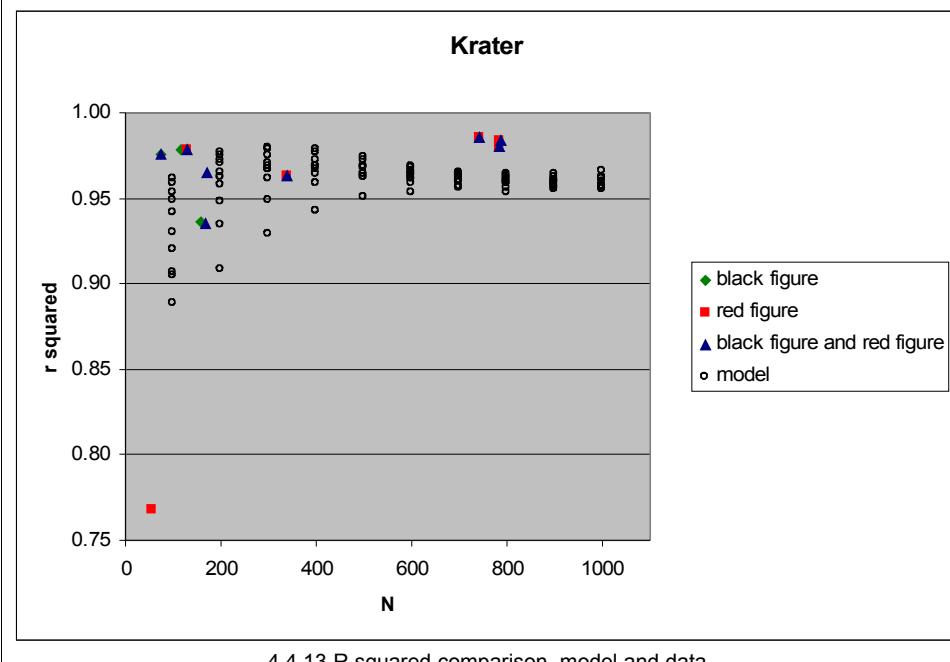
4.4.10 Estimates of theta over time, black-figure and red-figure



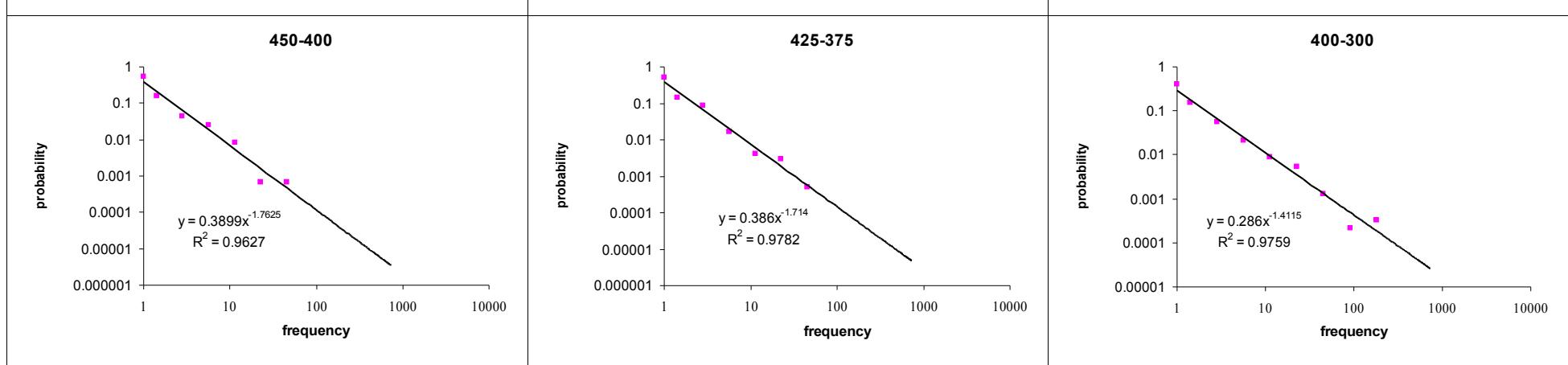
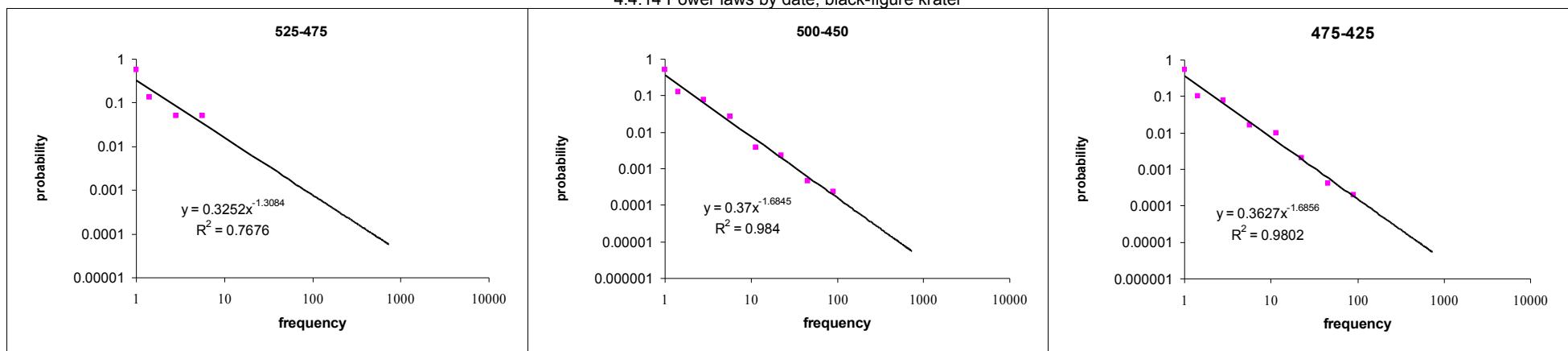
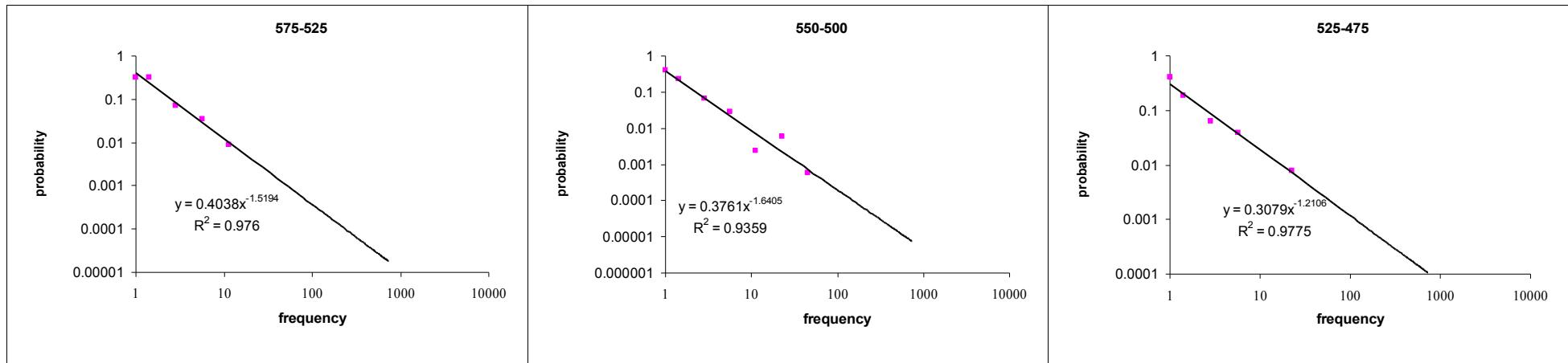
4.4.11 $|tf-te|$ comparison, model and data



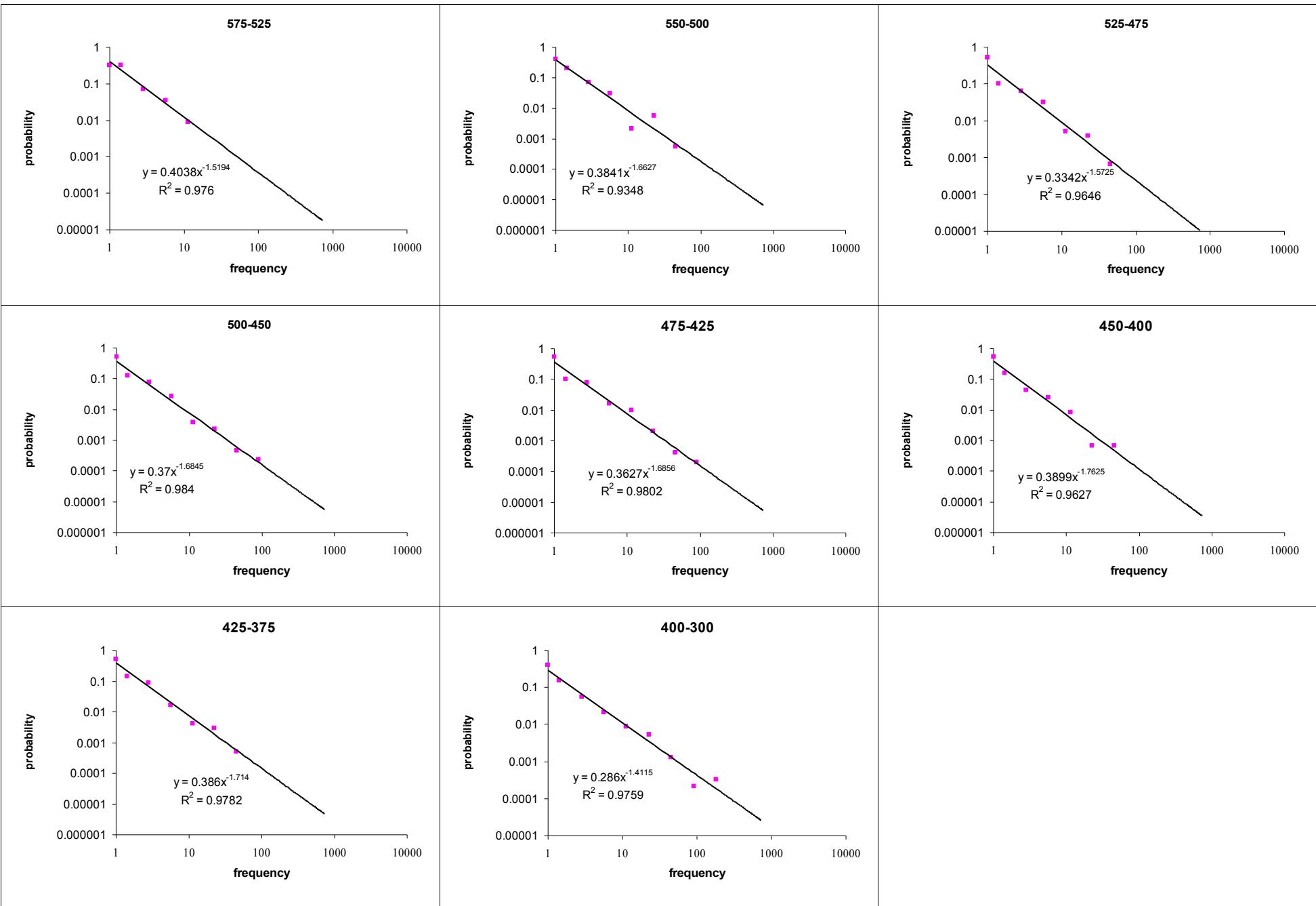
4.4.12 R^2 values over time



4.4.13 R^2 comparison, model and data

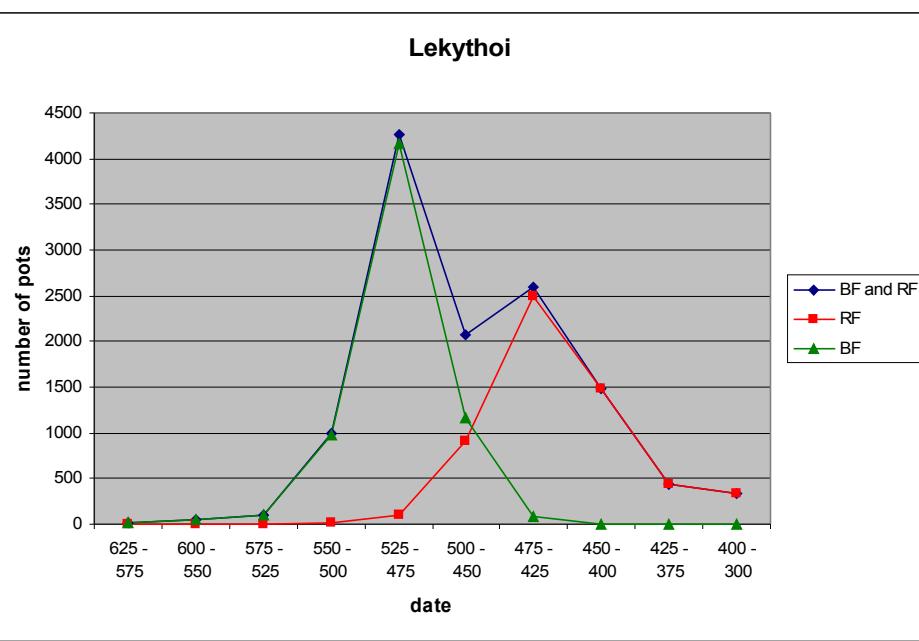


4.4.15 Power laws by date, red-figure krater

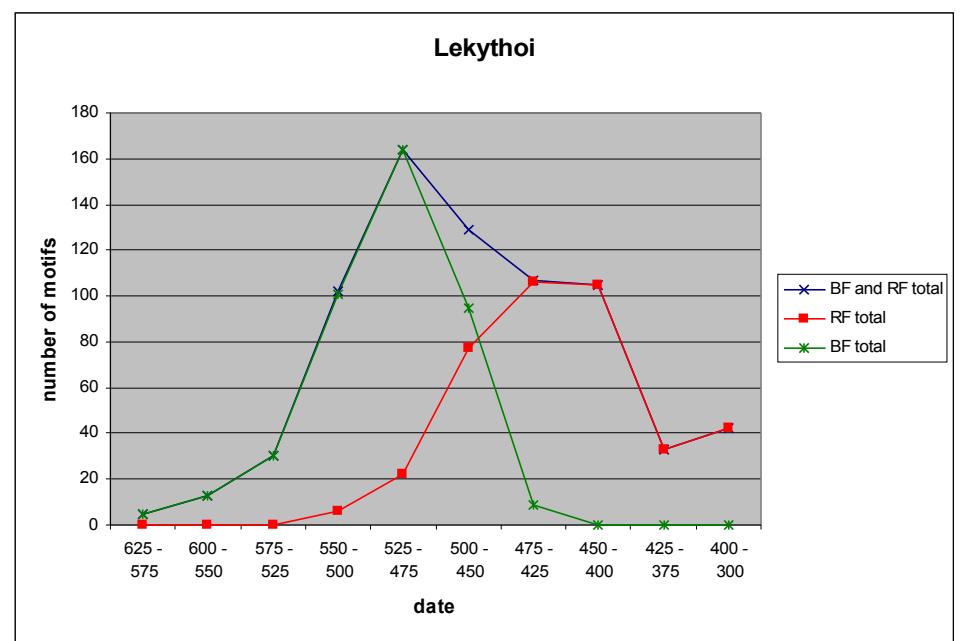


4.4.16 Power laws by date, black-figure and red-figure krater

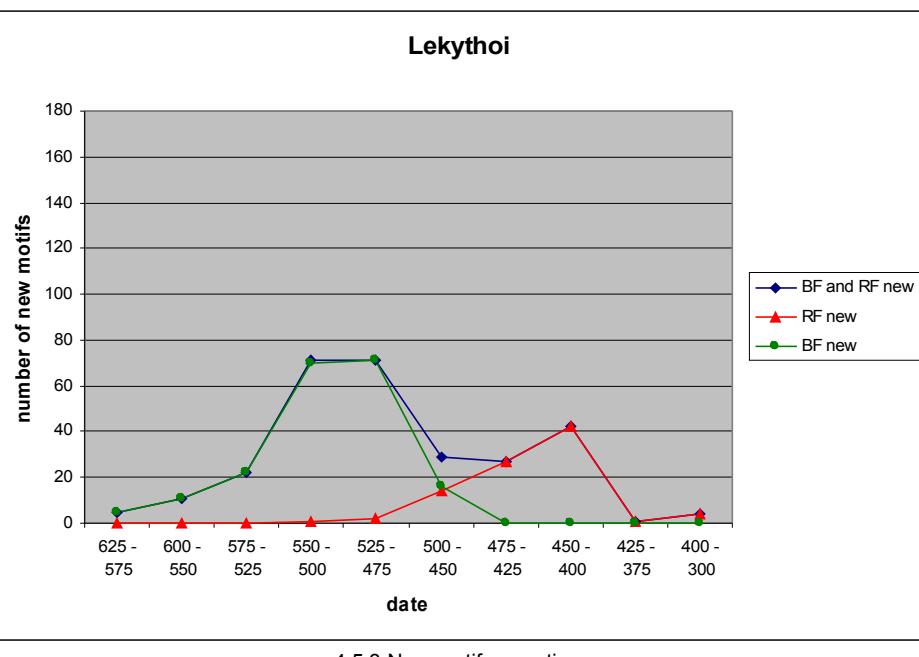
Figures Chapter 4.5 Lekythoi



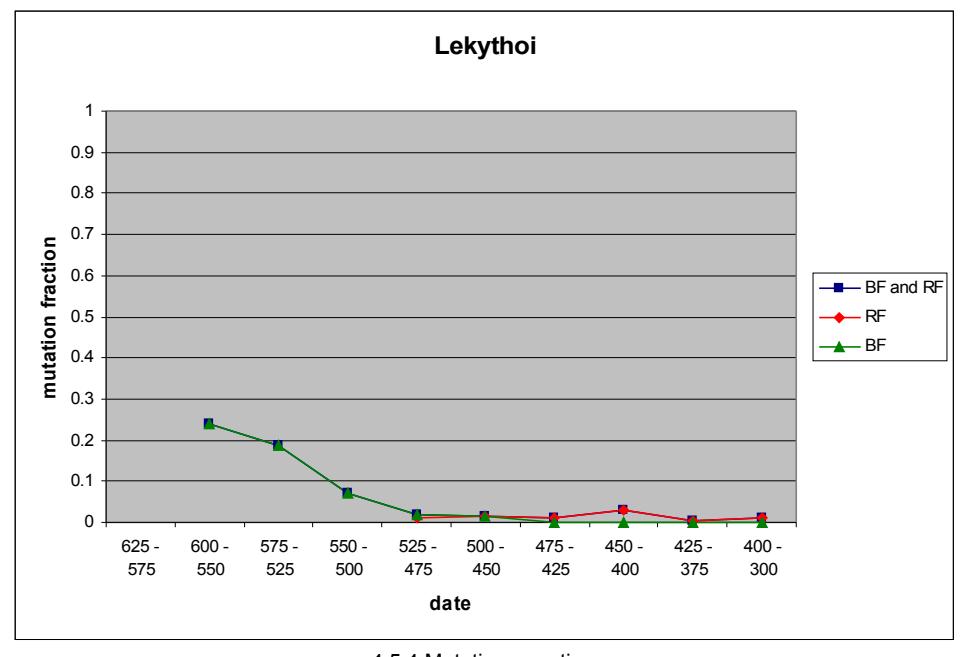
4.5.1 Sample size over time



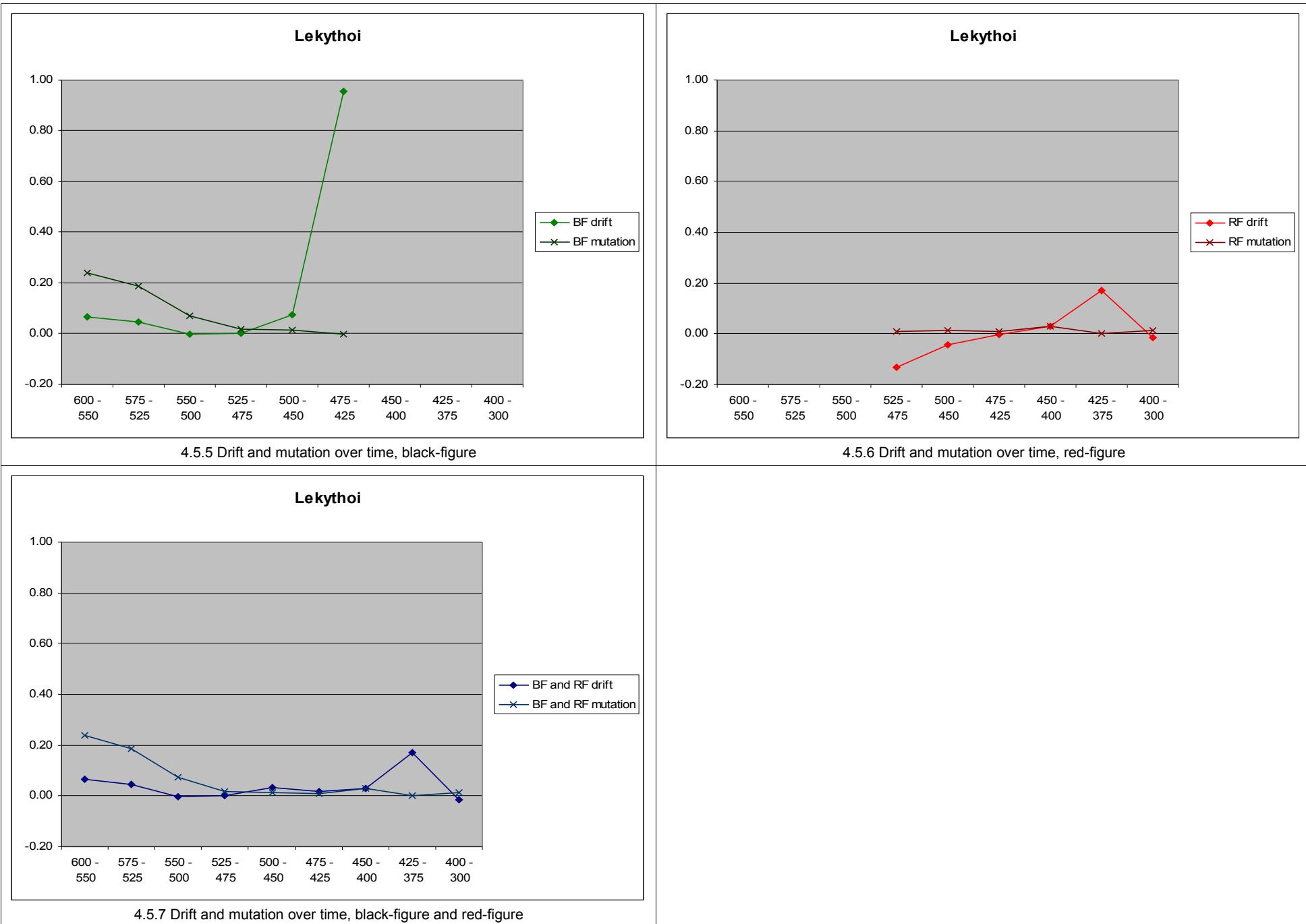
4.5.2 Motifs over time

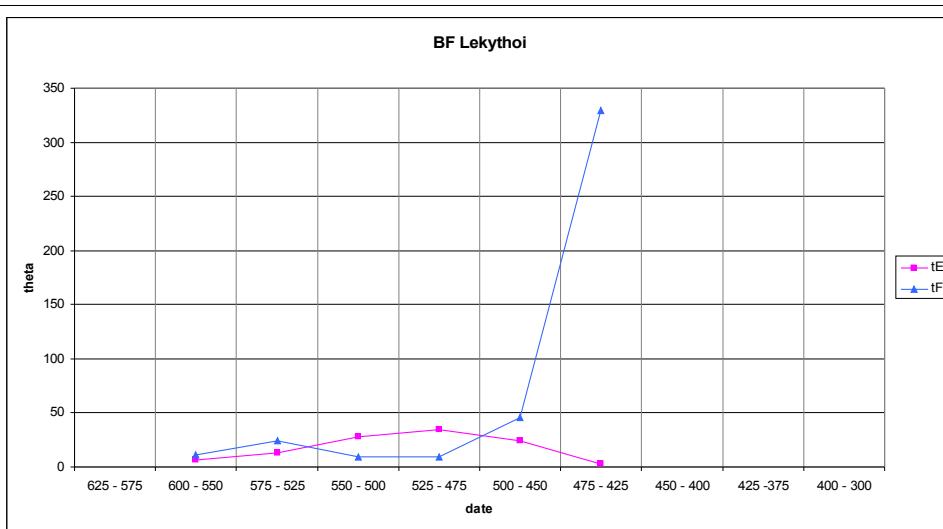


4.5.3 New motifs over time

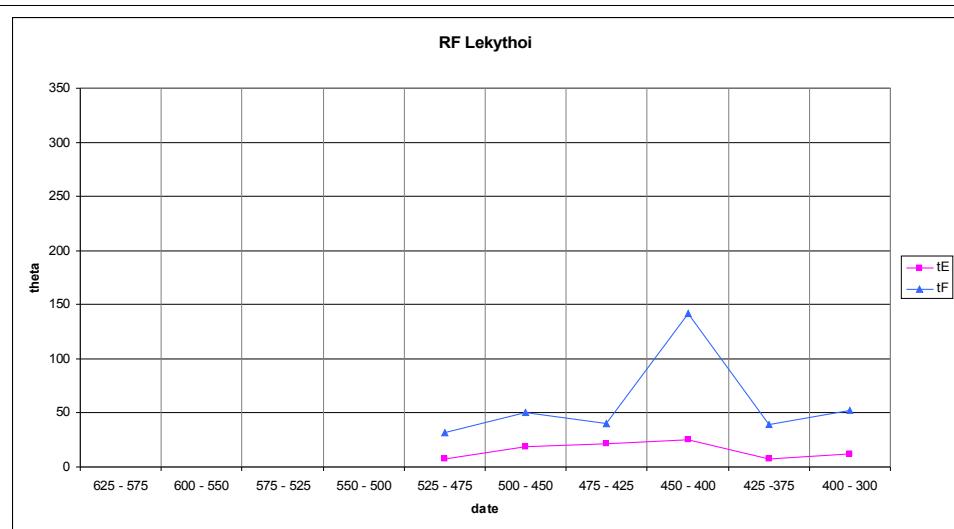


4.5.4 Mutation over time

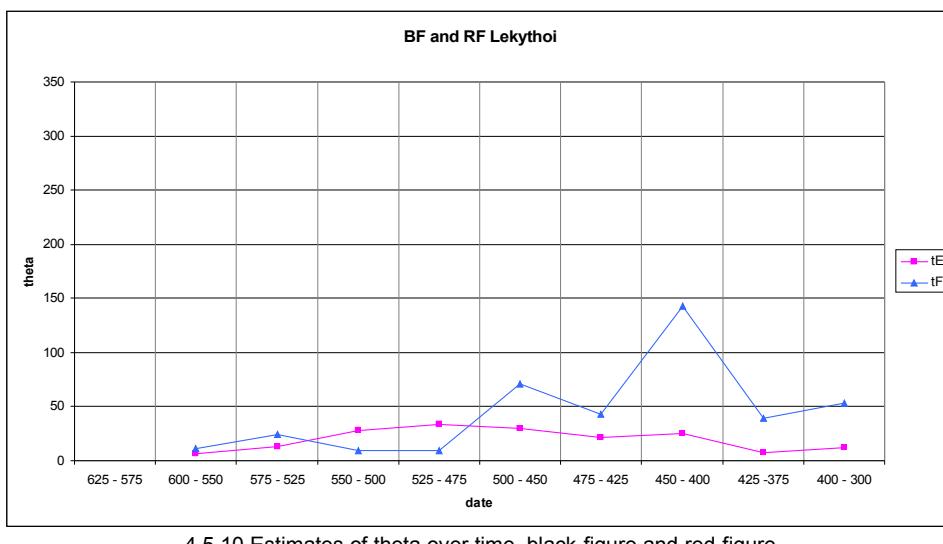




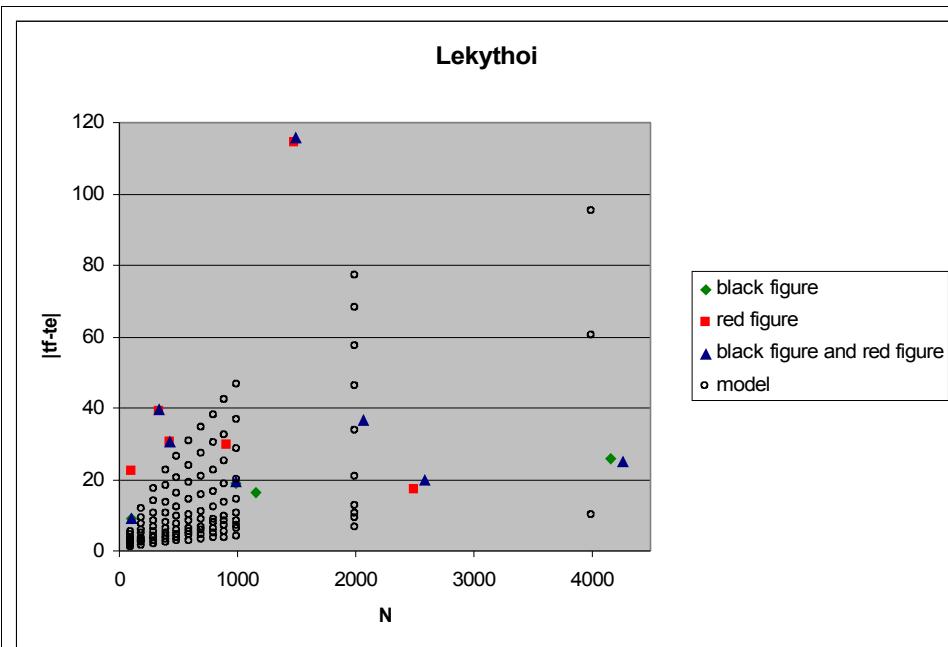
4.5.8 Estimates of theta over time, black-figure



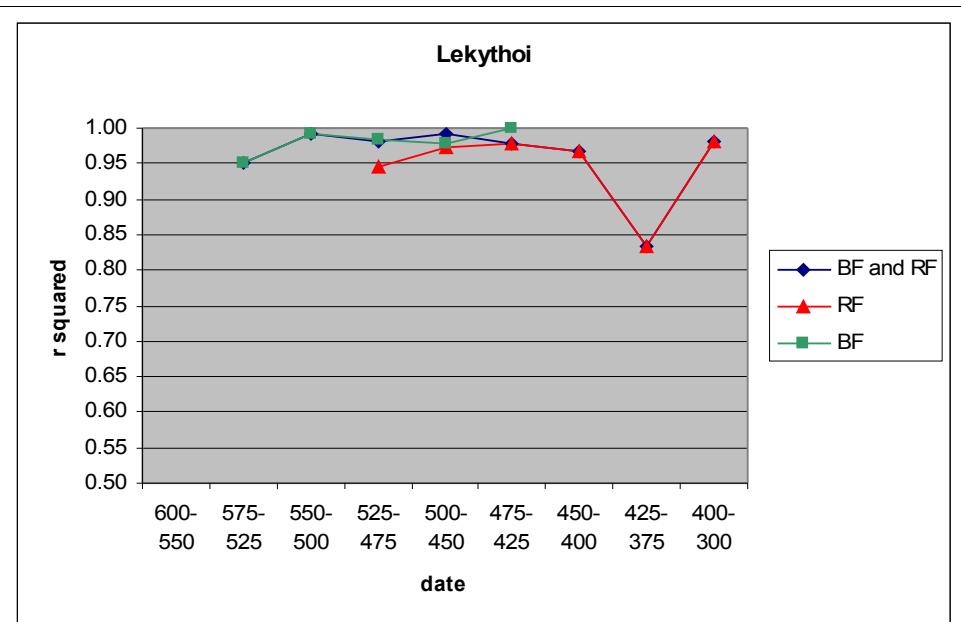
4.5.9 Estimates of theta over time, red-figure



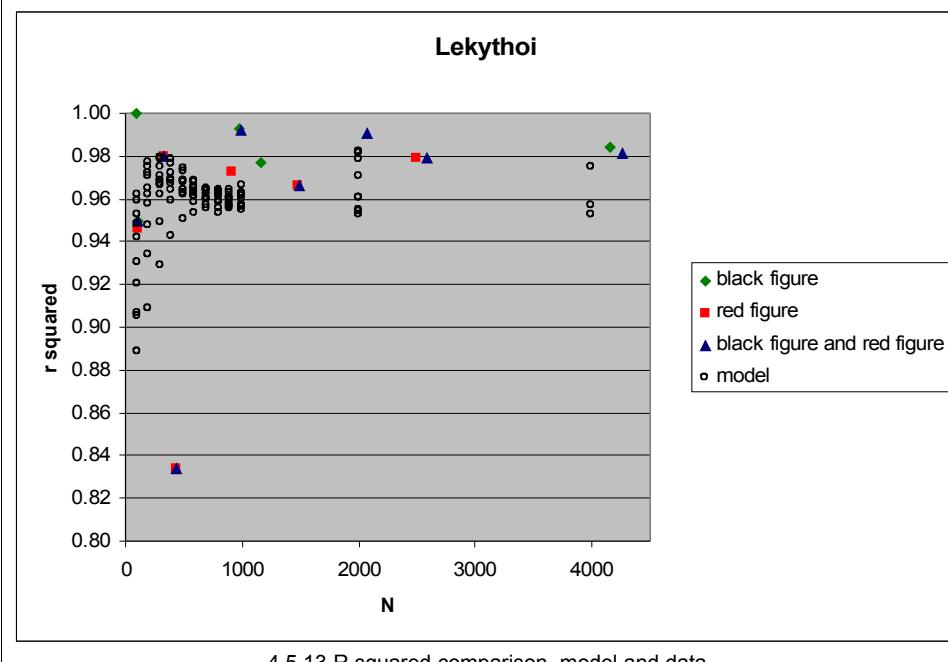
4.5.10 Estimates of theta over time, black-figure and red-figure



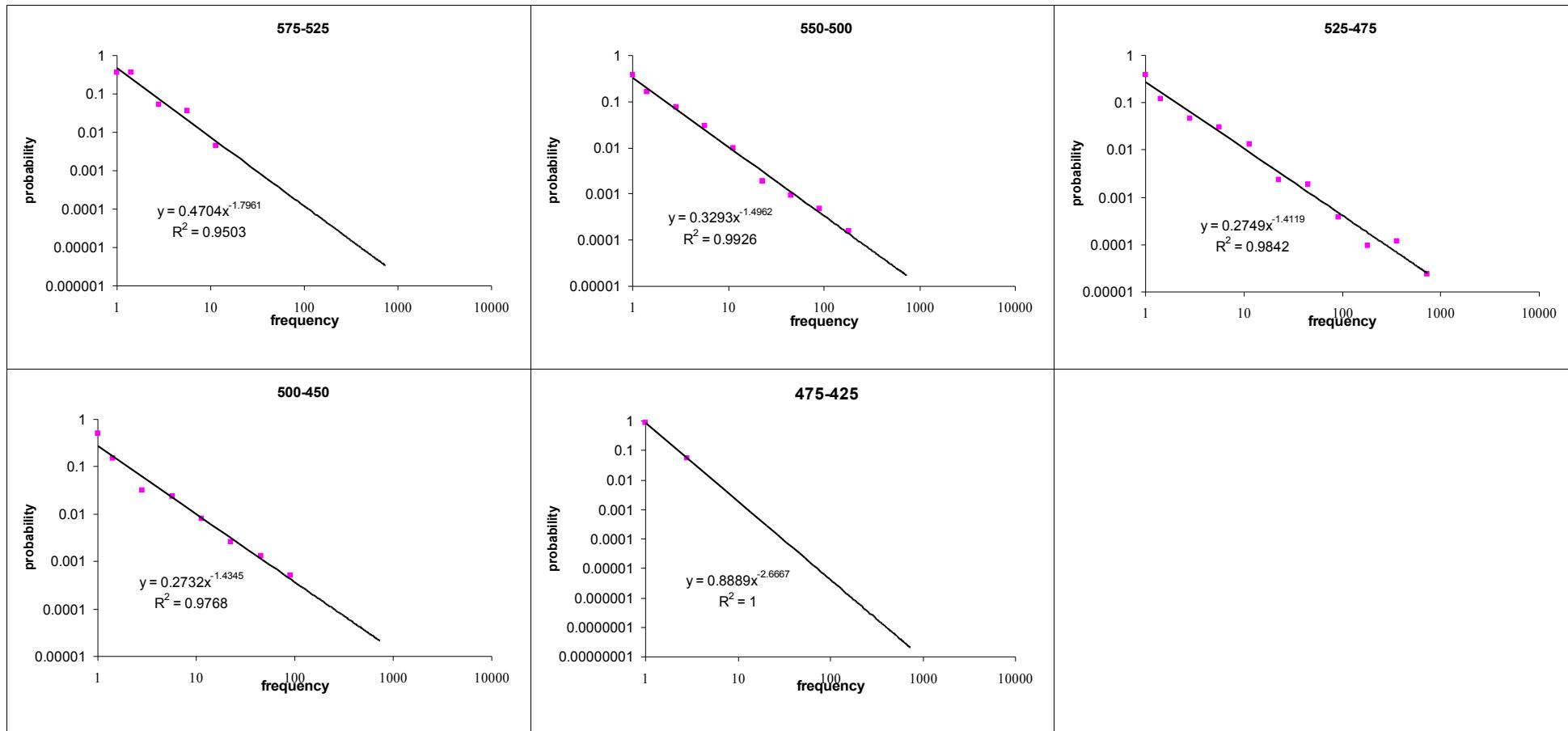
4.5.11 $|tf-te|$ comparison, model and data



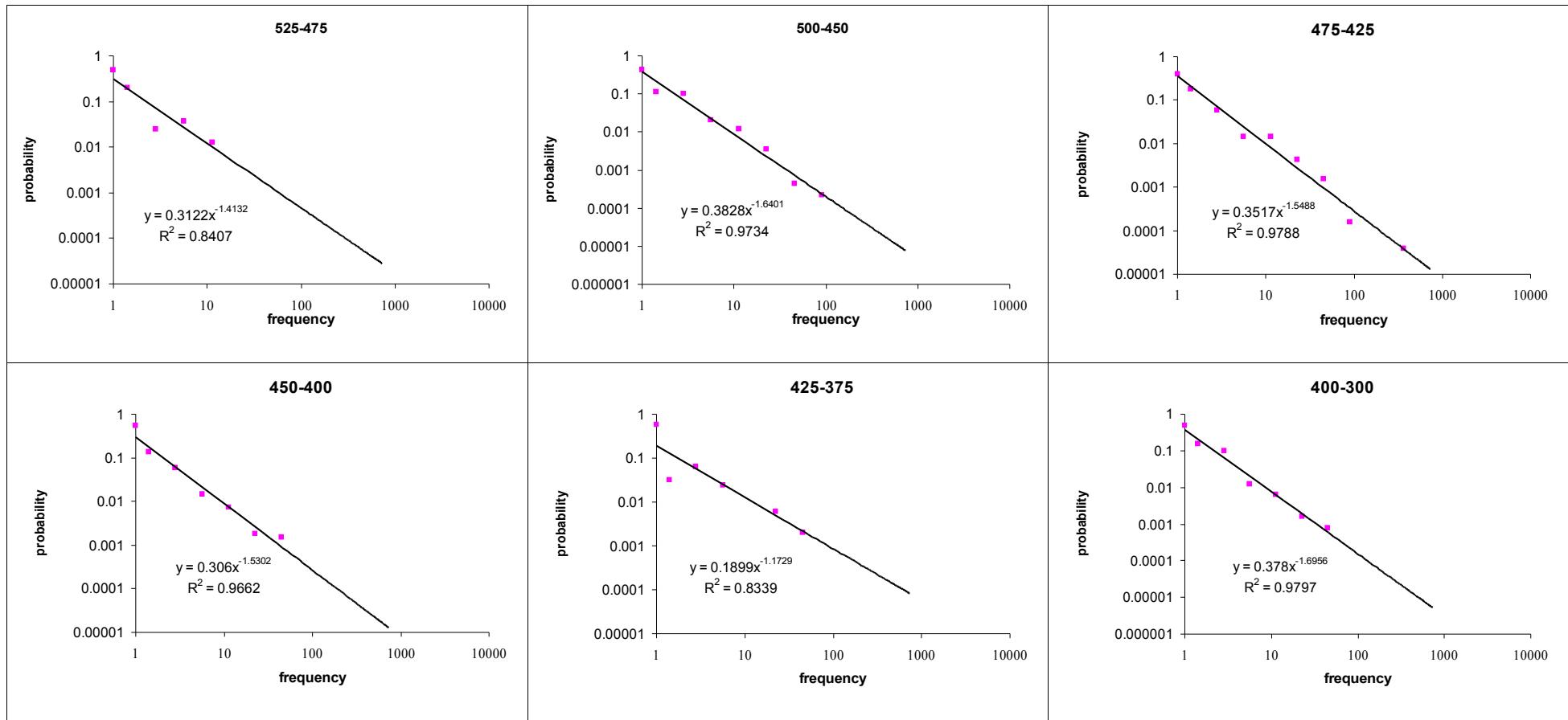
4.5.12 r^2 values over time



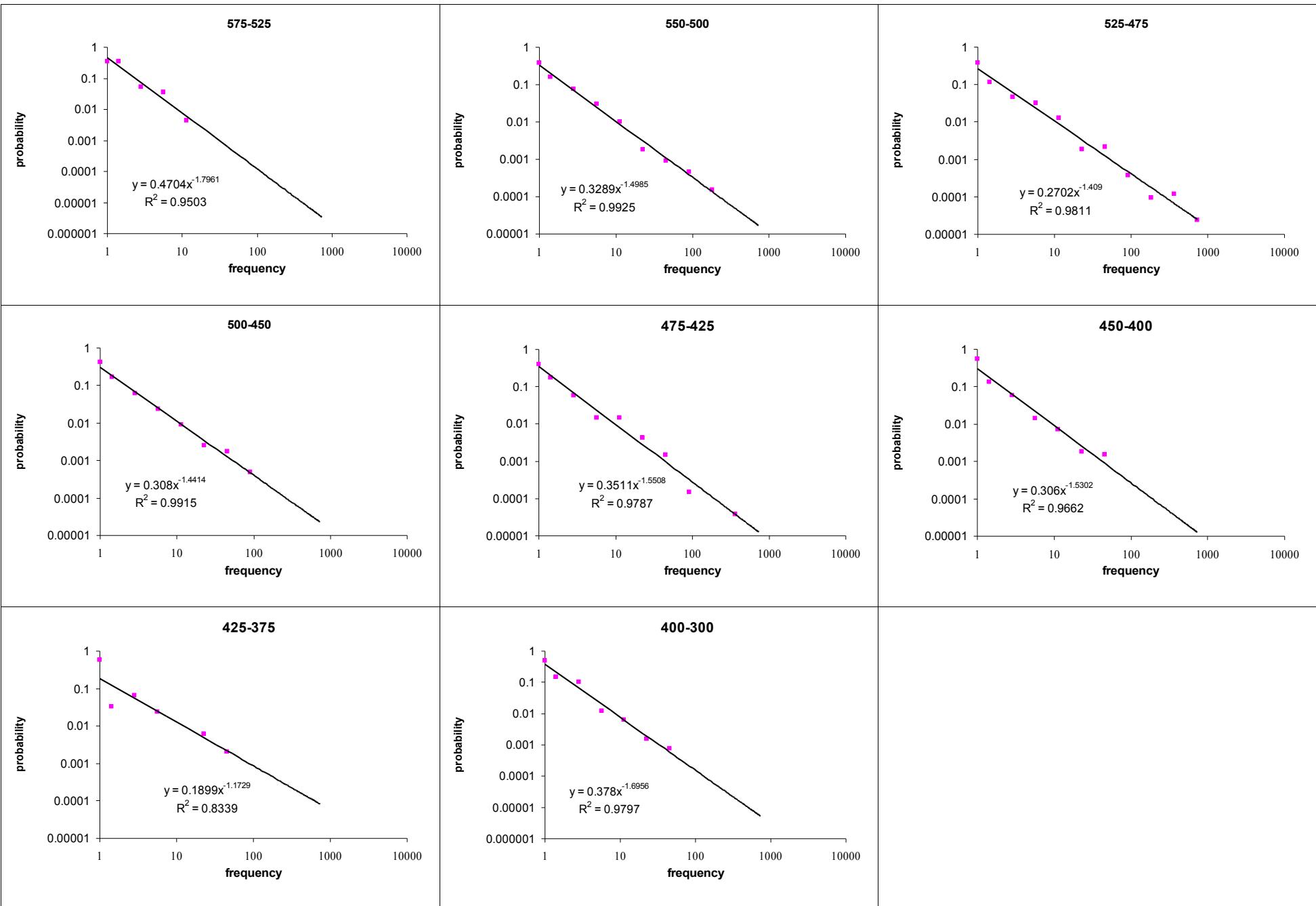
4.5.13 r^2 comparison, model and data



4.5.14 Power laws by date, black-figure lekythoi

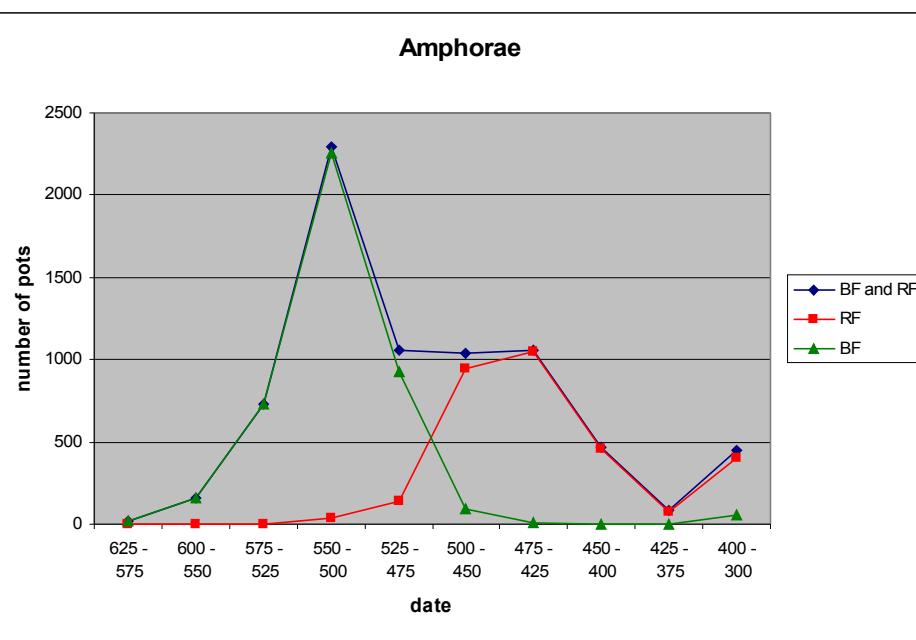


4.5.15 Power laws by date, red-figure lekythoi

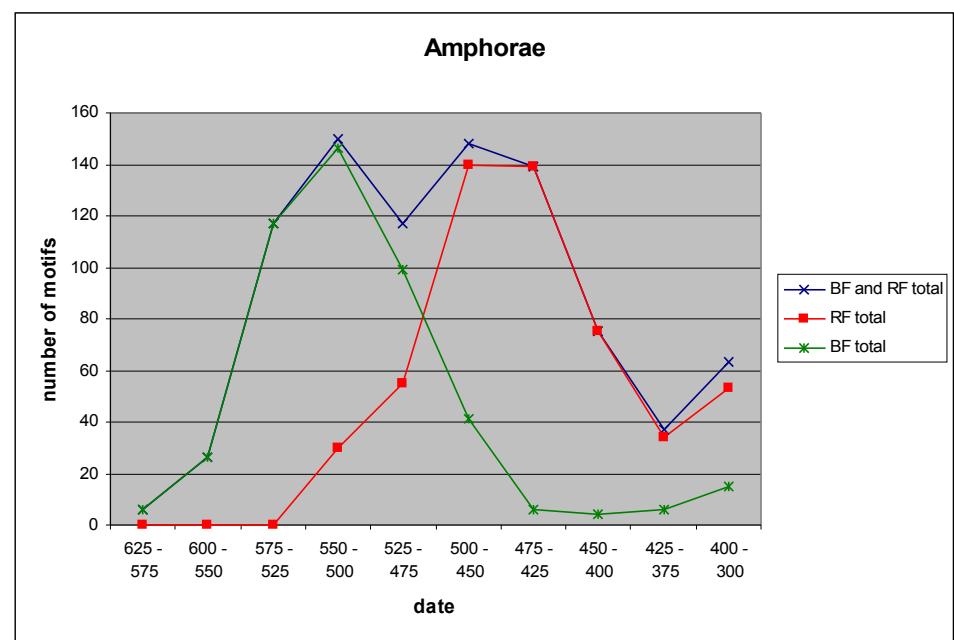


4.5.16 Power laws by date, black-figure and red-figure lekythoi

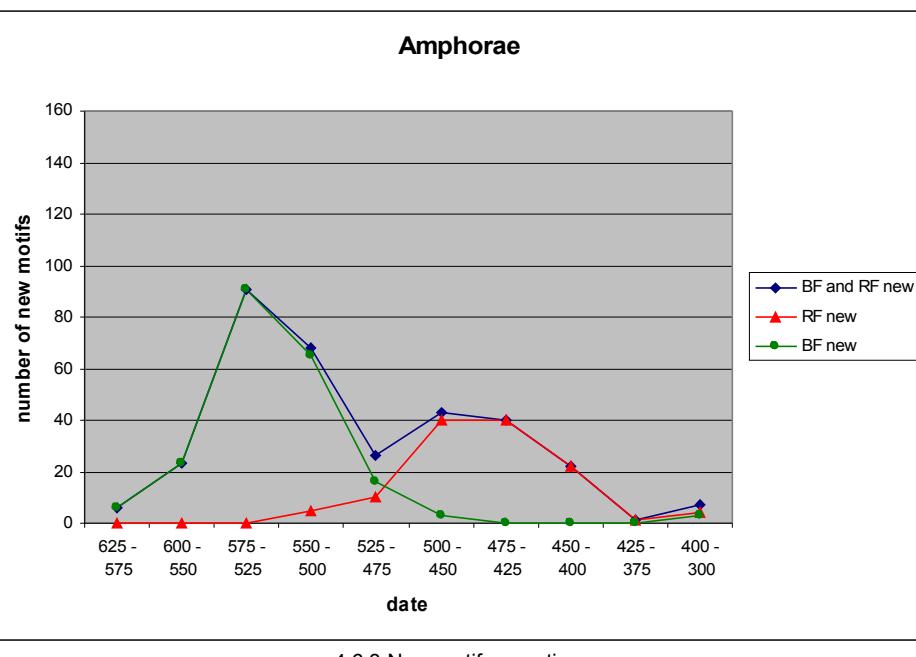
Figures Chapter 4.6 Amphorae



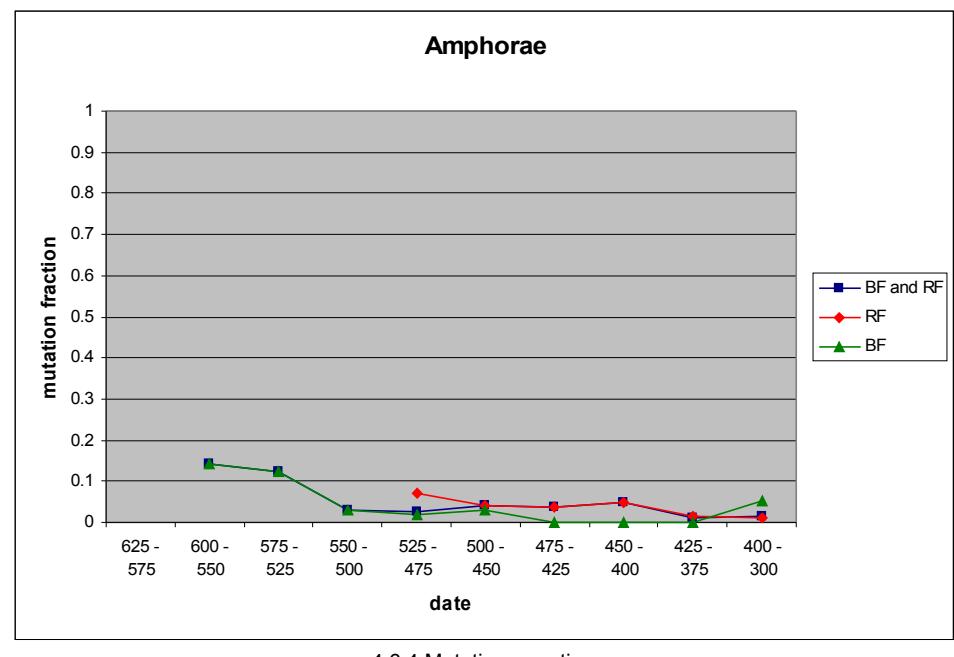
4.6.1 Sample size over time



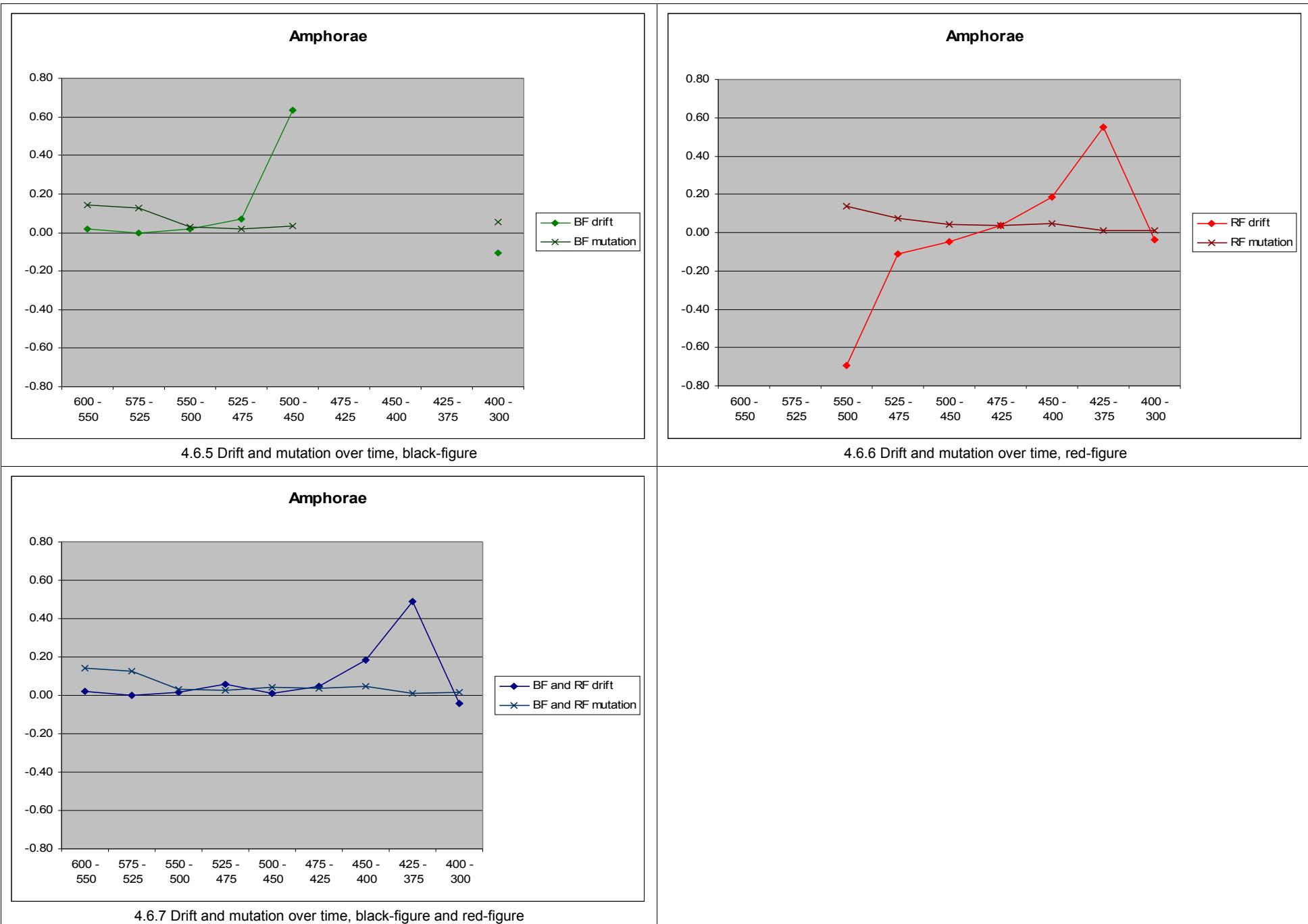
4.6.2 Motifs over time

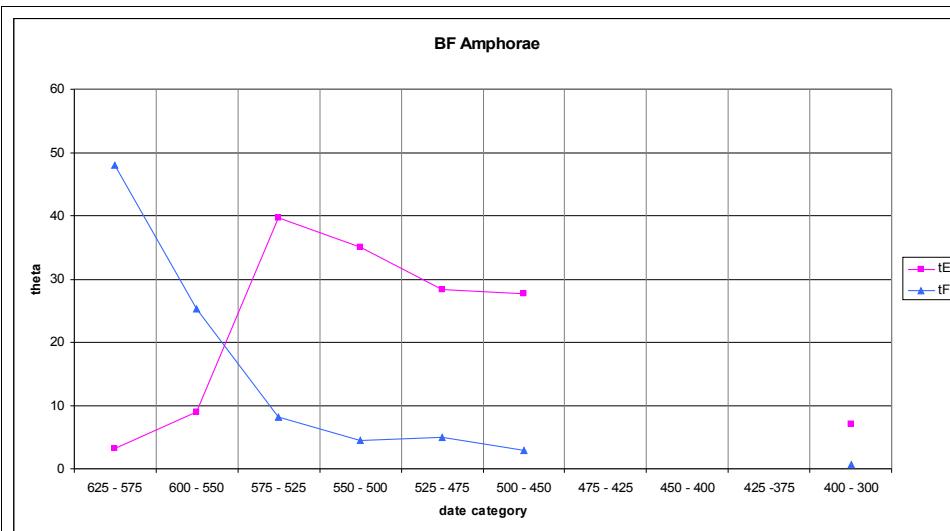


4.6.3 New motifs over time

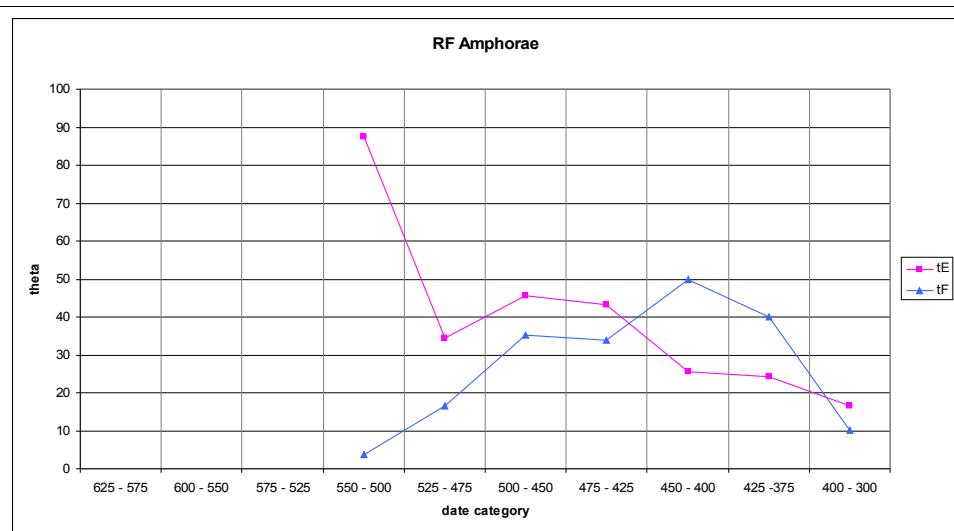


4.6.4 Mutation over time

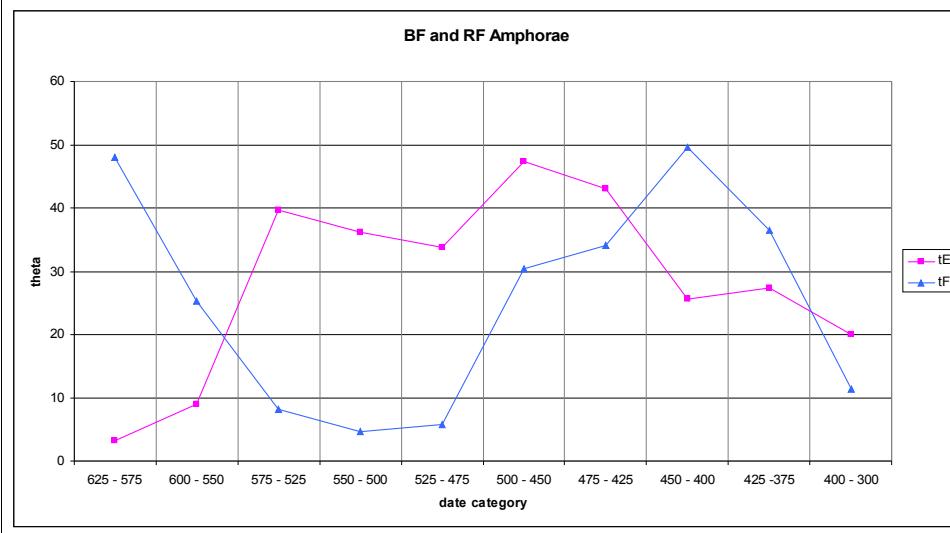




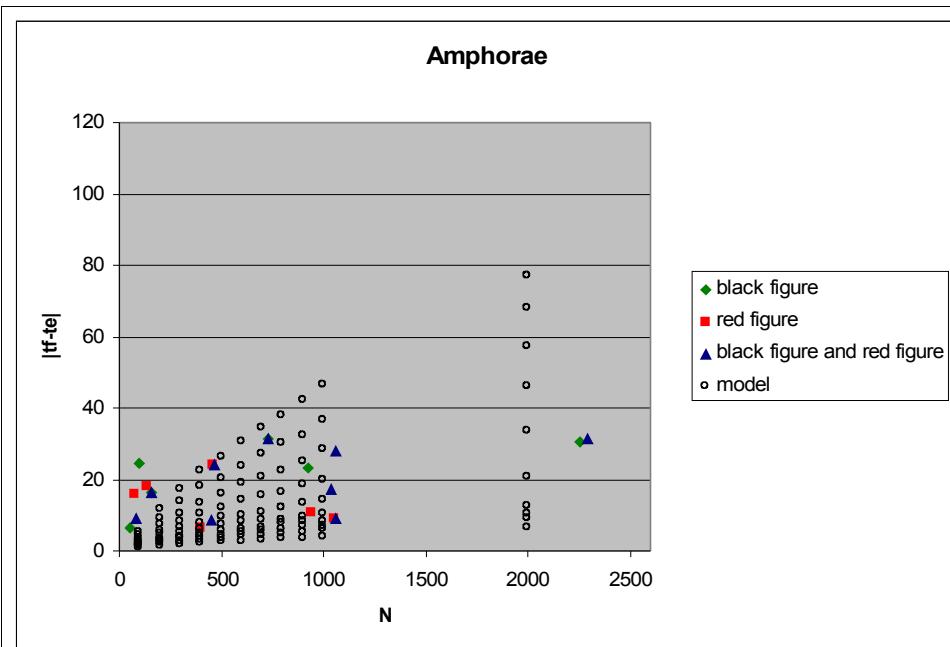
4.6.8 Estimates of theta over time, black-figure



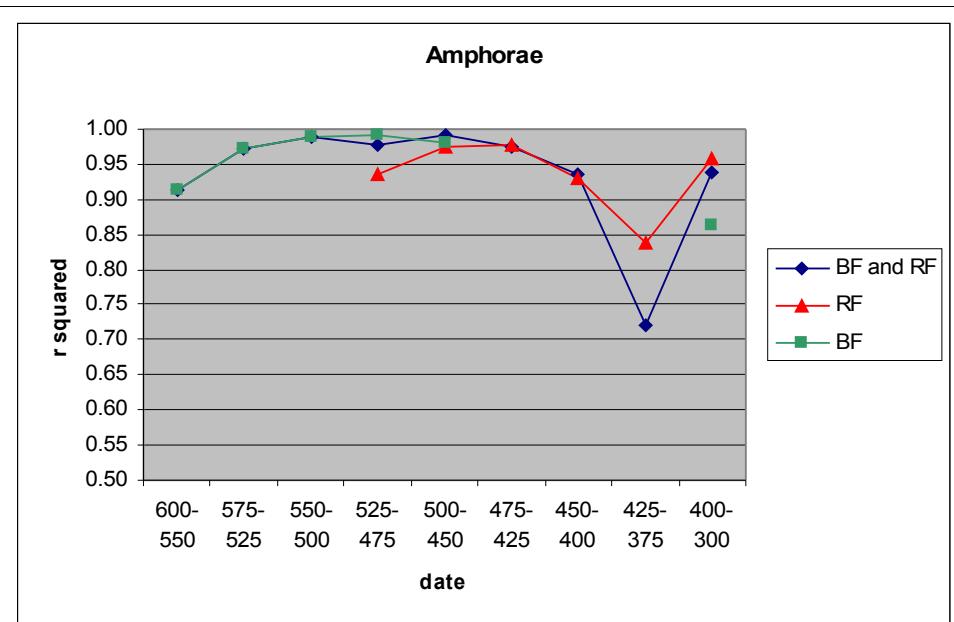
4.6.9 Estimates of theta over time, red-figure



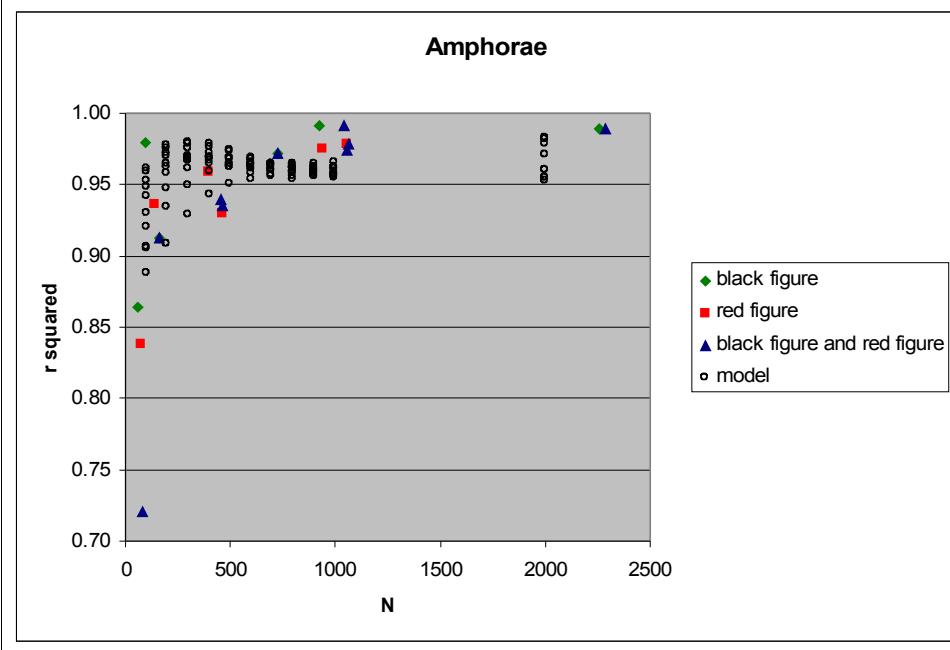
4.6.10 Estimates of theta over time, black-figure and red-figure



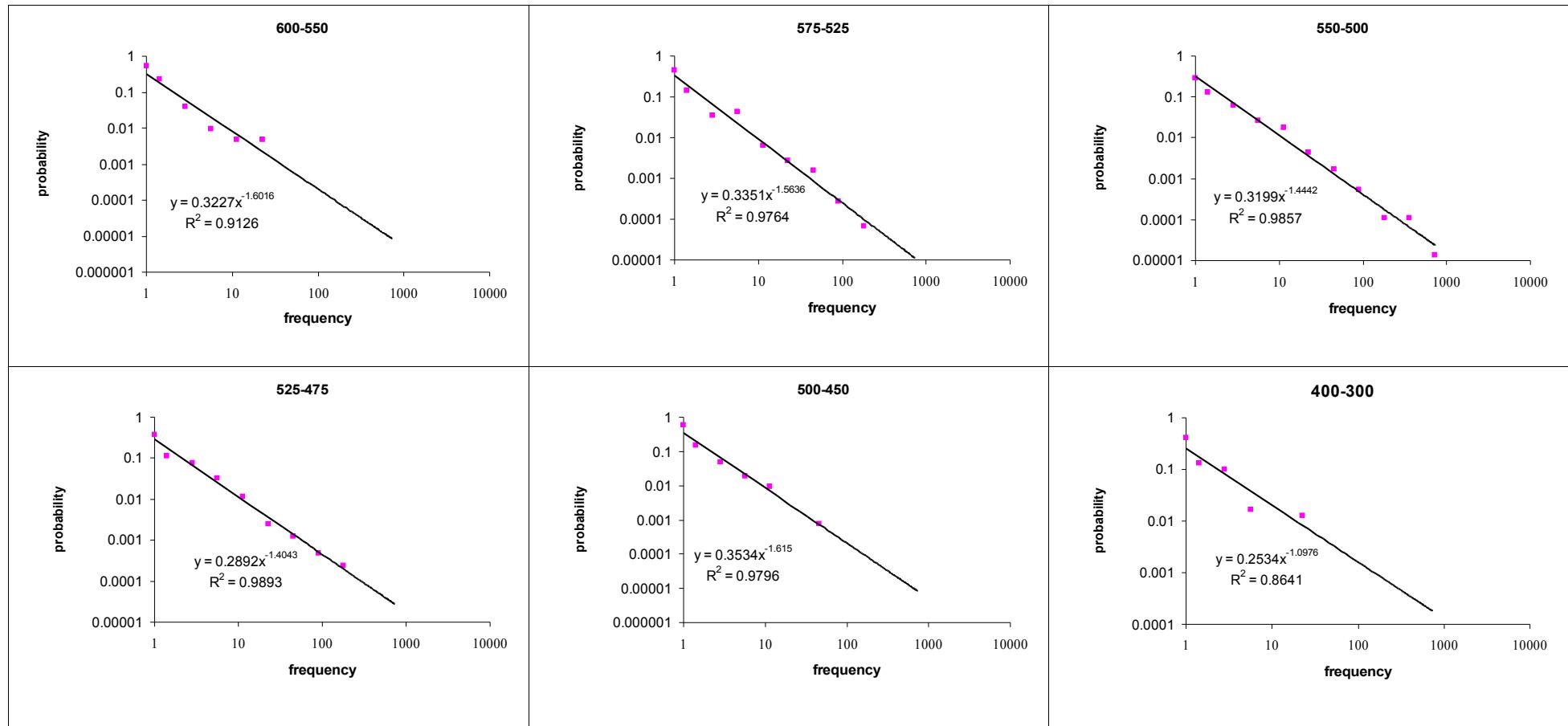
4.6.11 $|tf-te|$ comparison, model and data



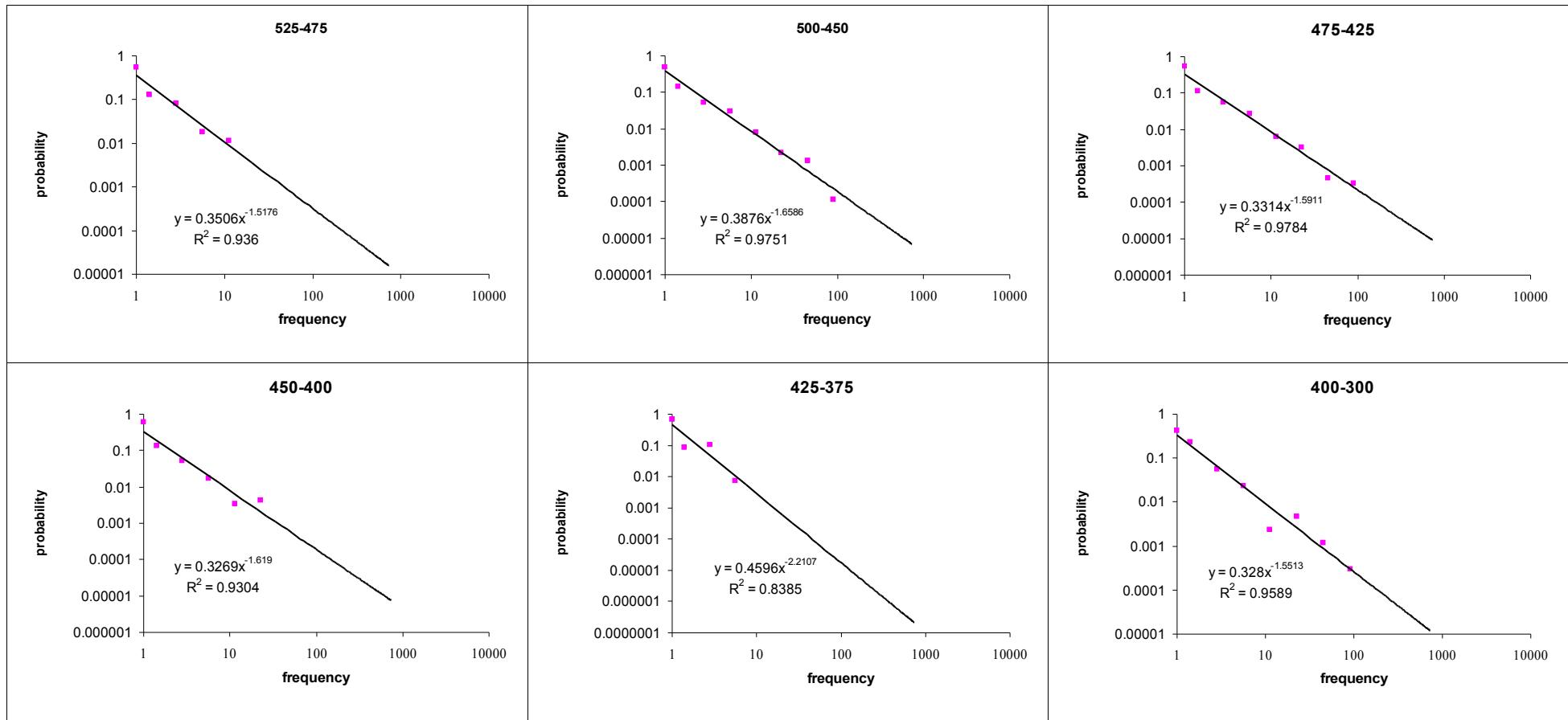
4.6.12 r^2 values over time



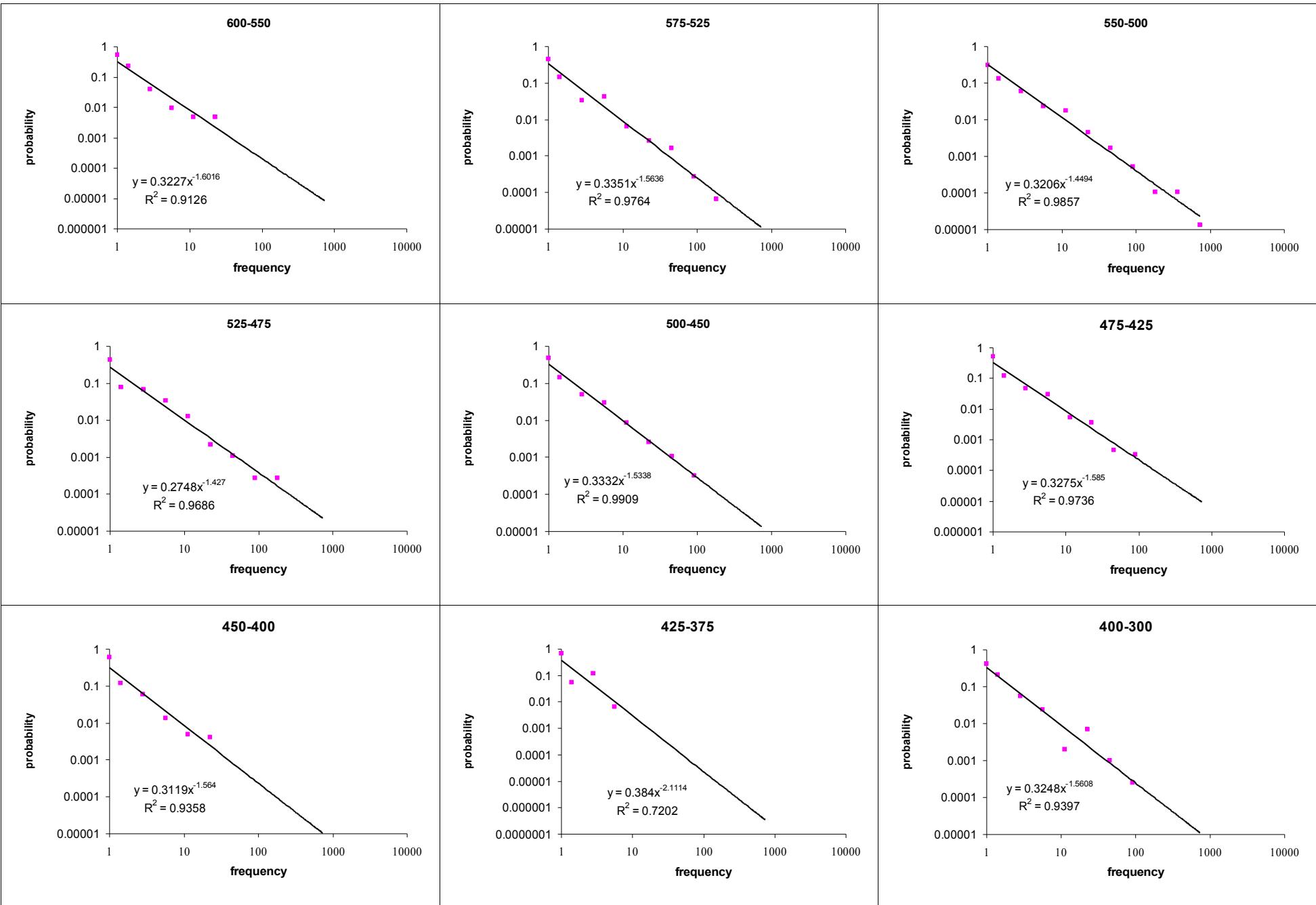
4.6.13 r^2 comparison, model and data



4.6.14 Power laws by date, black-figure amphorae

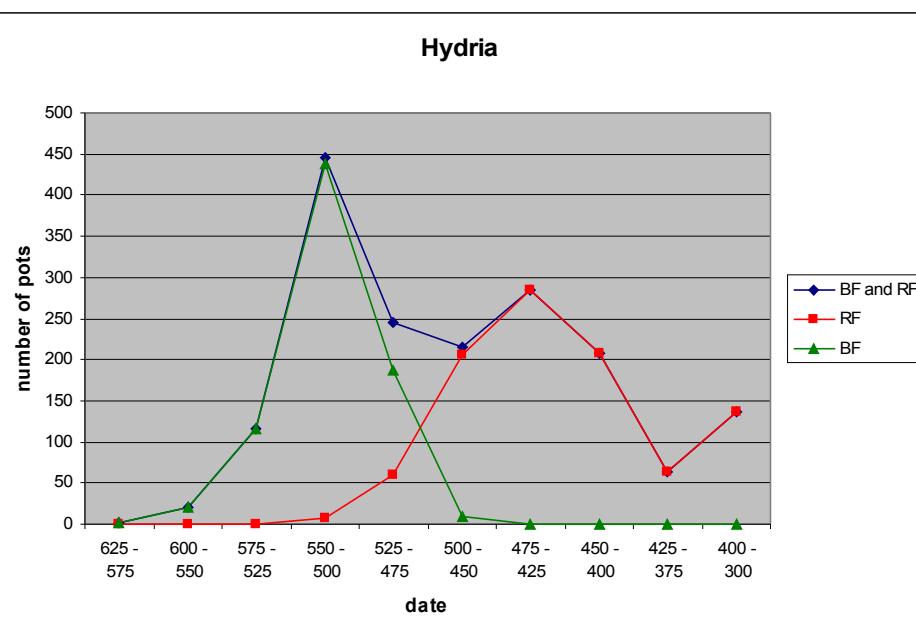


4.6.15 Power laws by date, red-figure amphorae

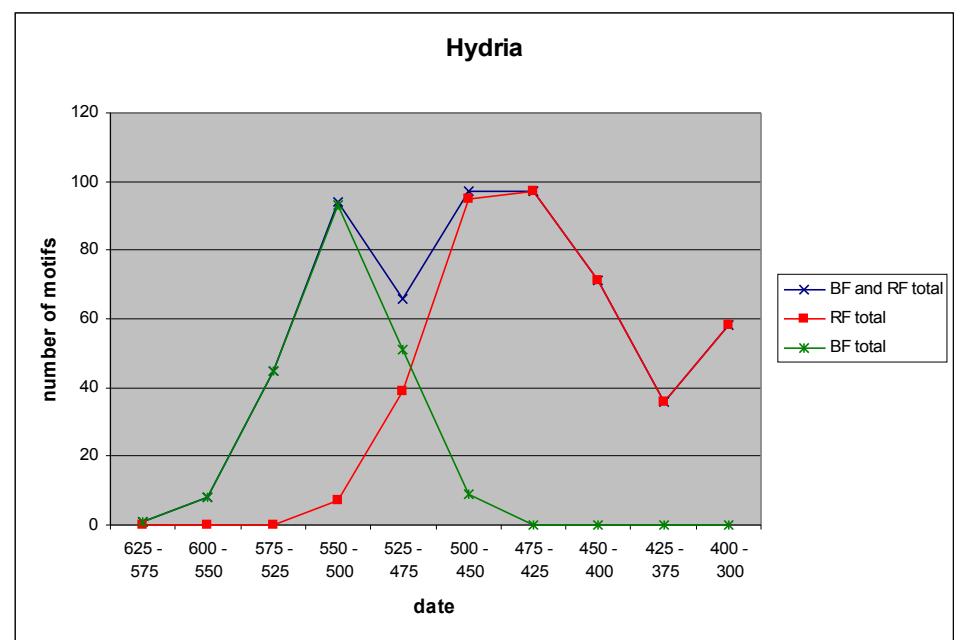


4.6.16 Power laws by date, black-figure and red-figure amphorae

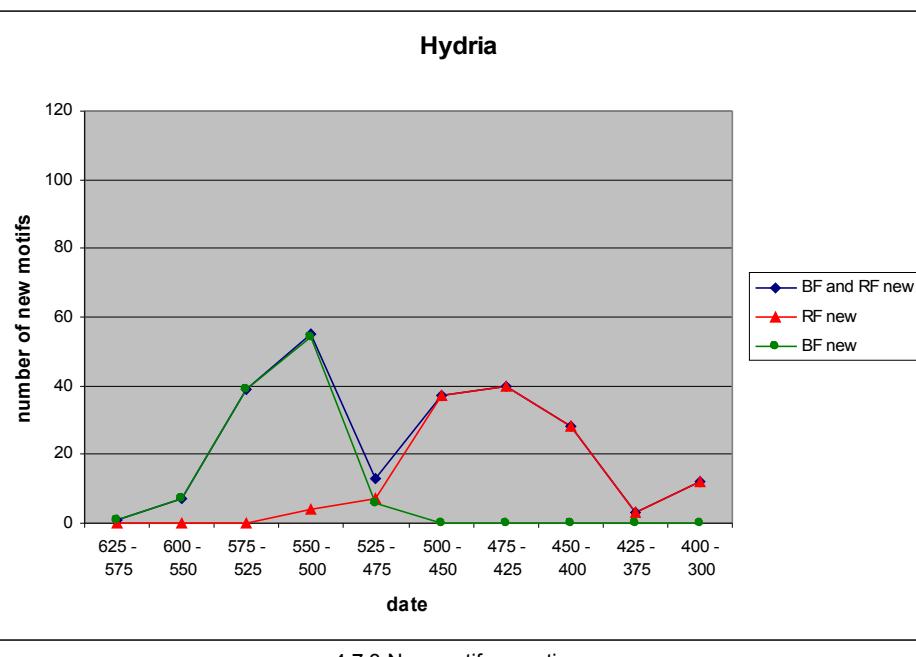
Figures Chapter 4.7 Hydria



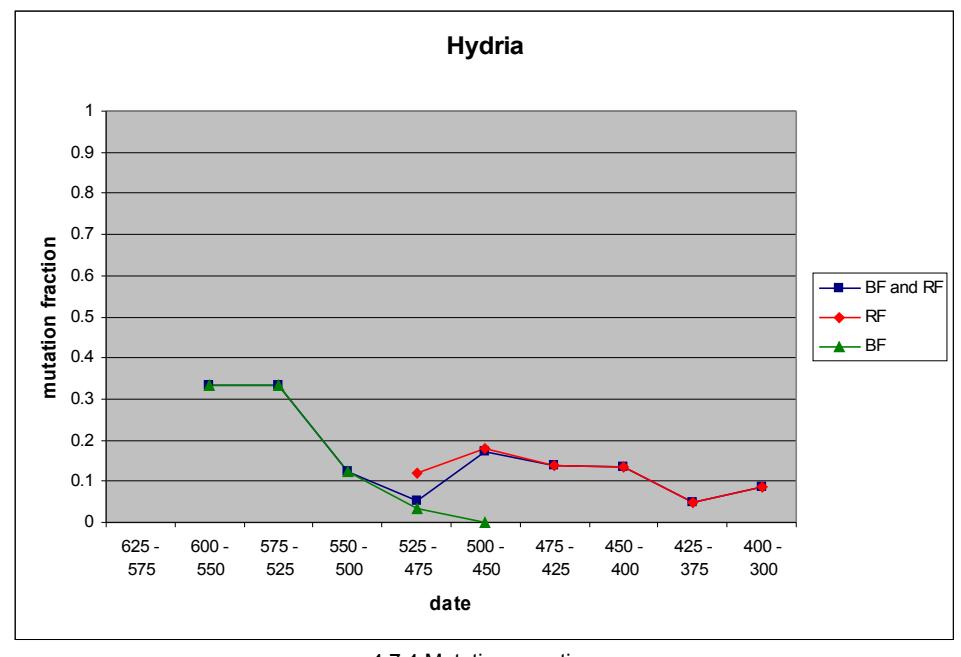
4.7.1 Sample size over time



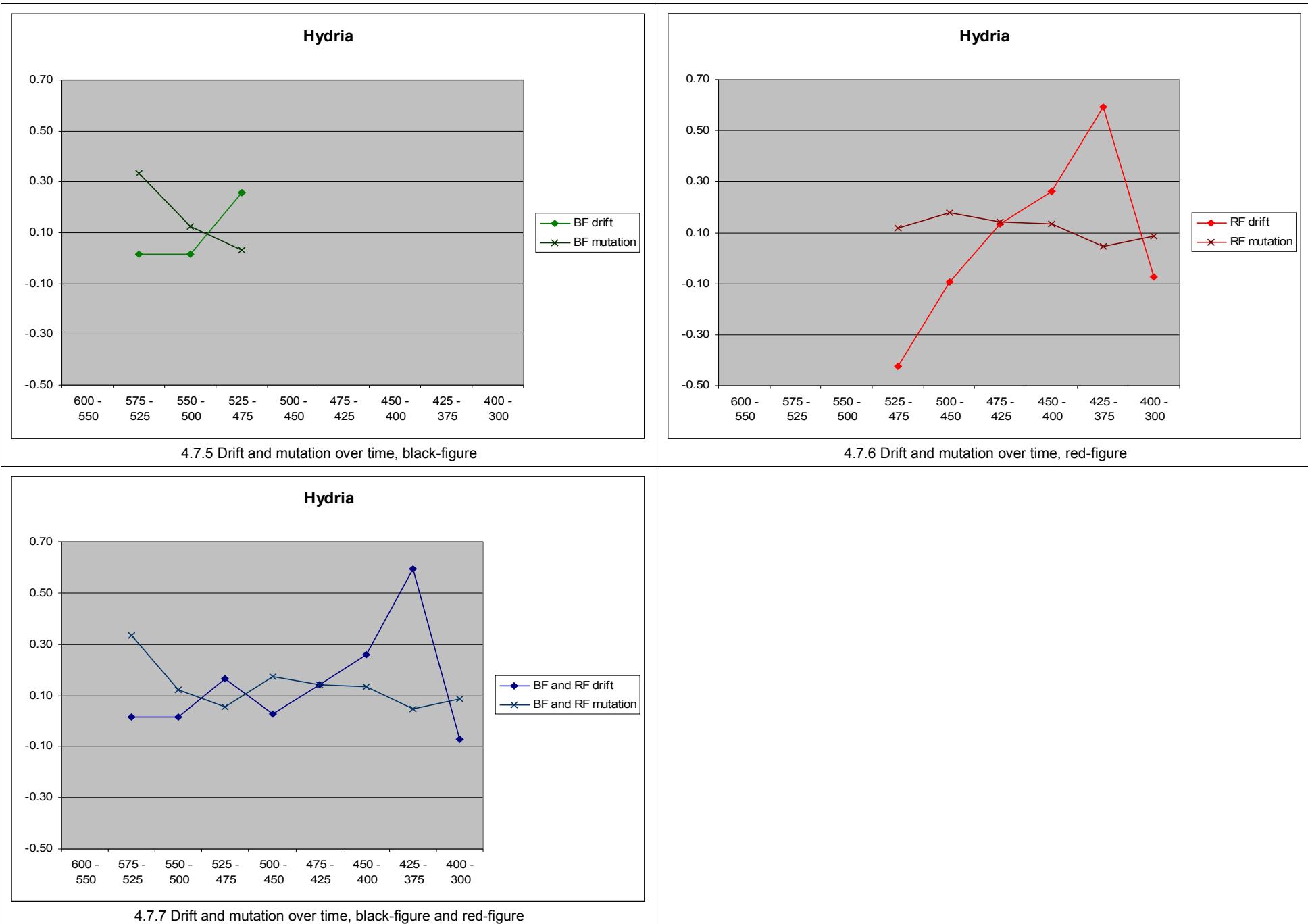
4.7.2 Motifs over time

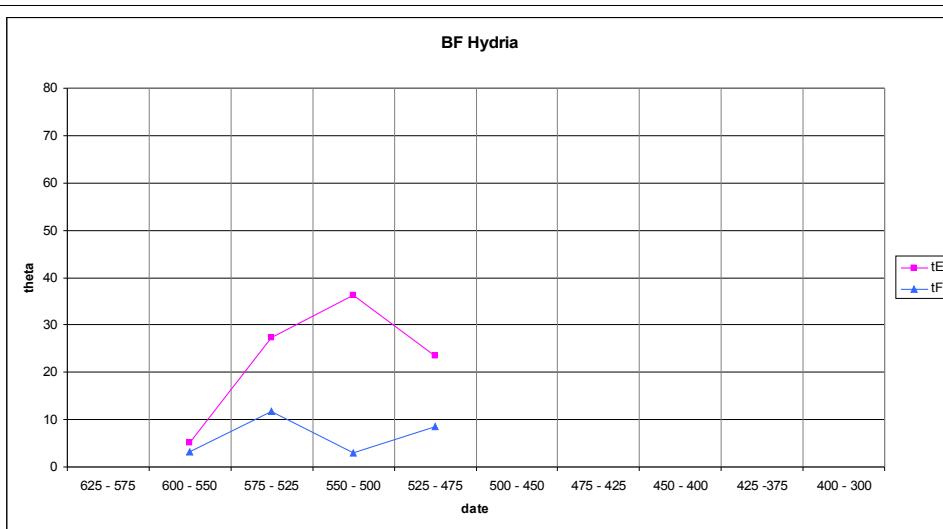


4.7.3 New motifs over time

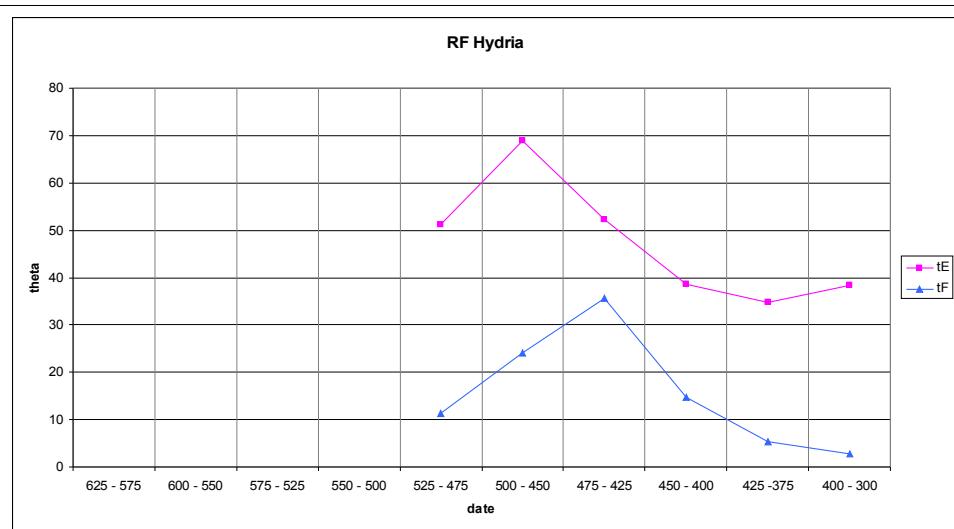


4.7.4 Mutation over time

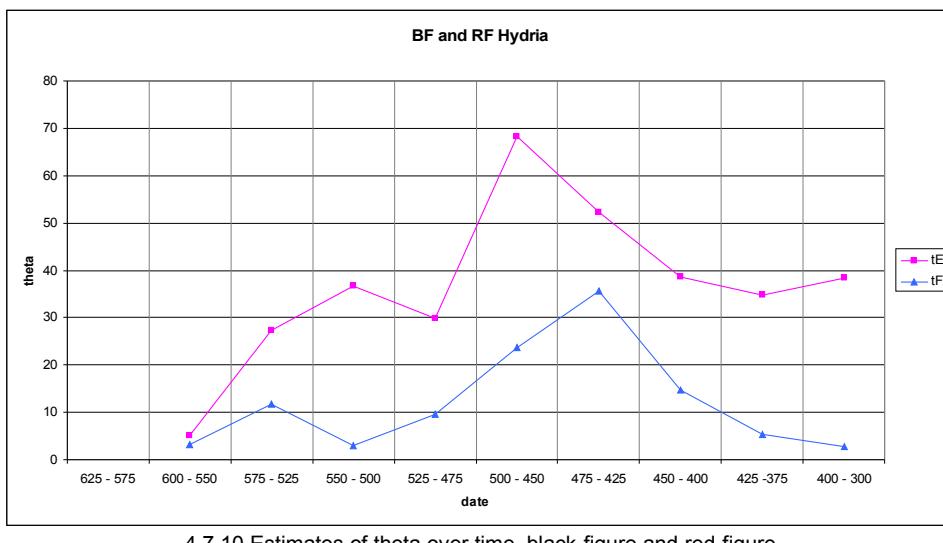




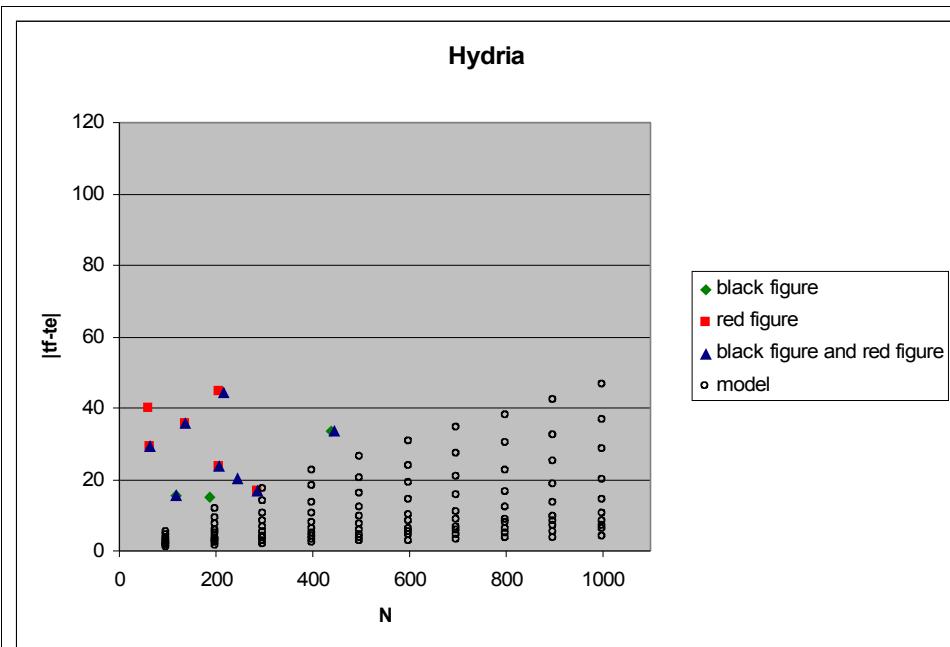
4.7.8 Estimates of theta over time, black-figure



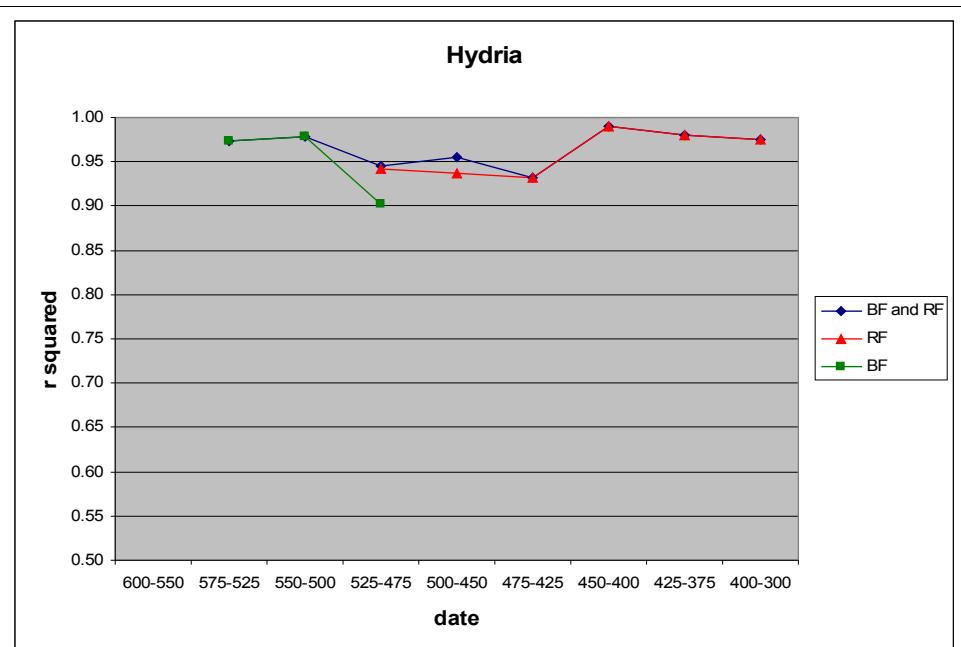
4.7.9 Estimates of theta over time, red-figure



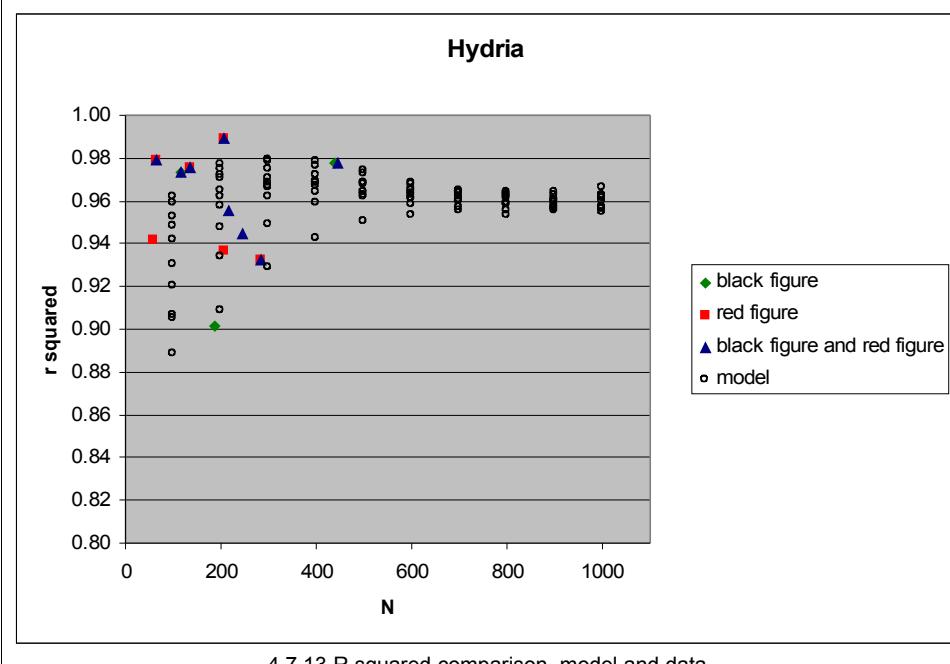
4.7.10 Estimates of theta over time, black-figure and red-figure



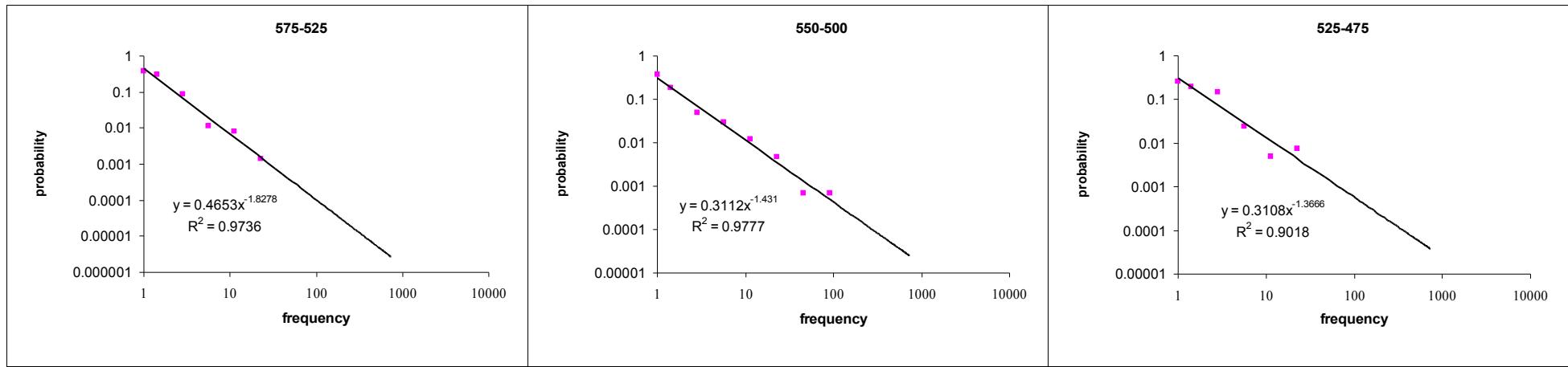
4.7.11 $|tf-te|$ comparison, model and data



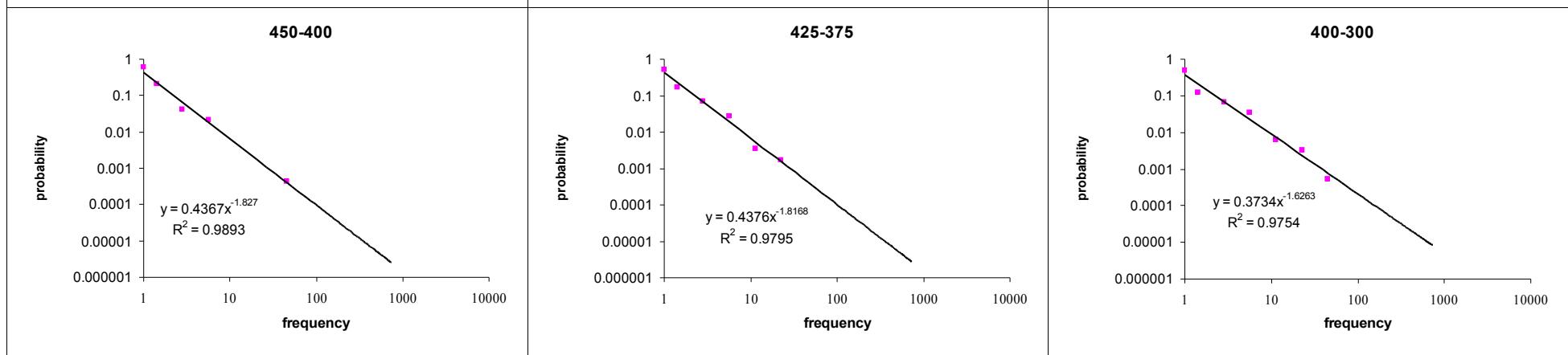
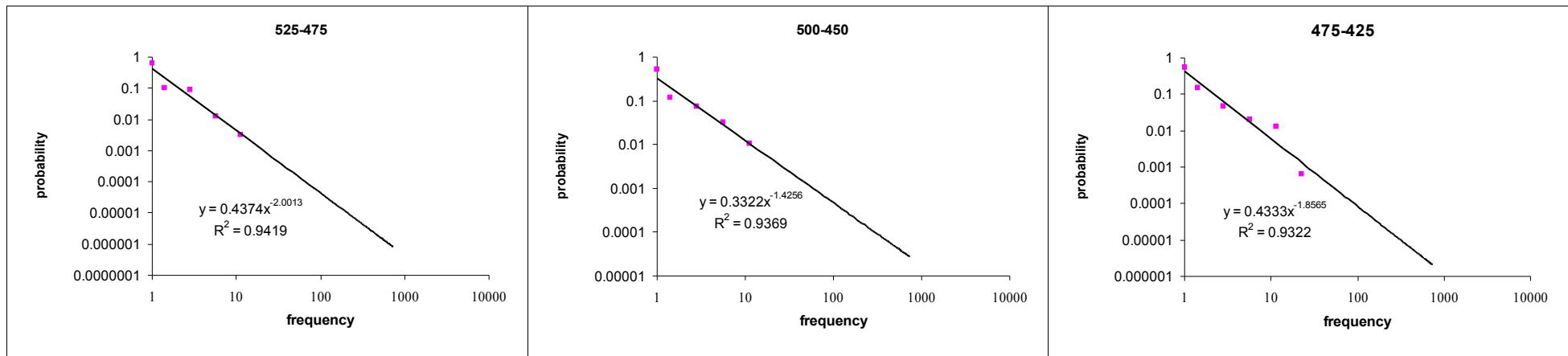
4.7.12 R^2 values over time



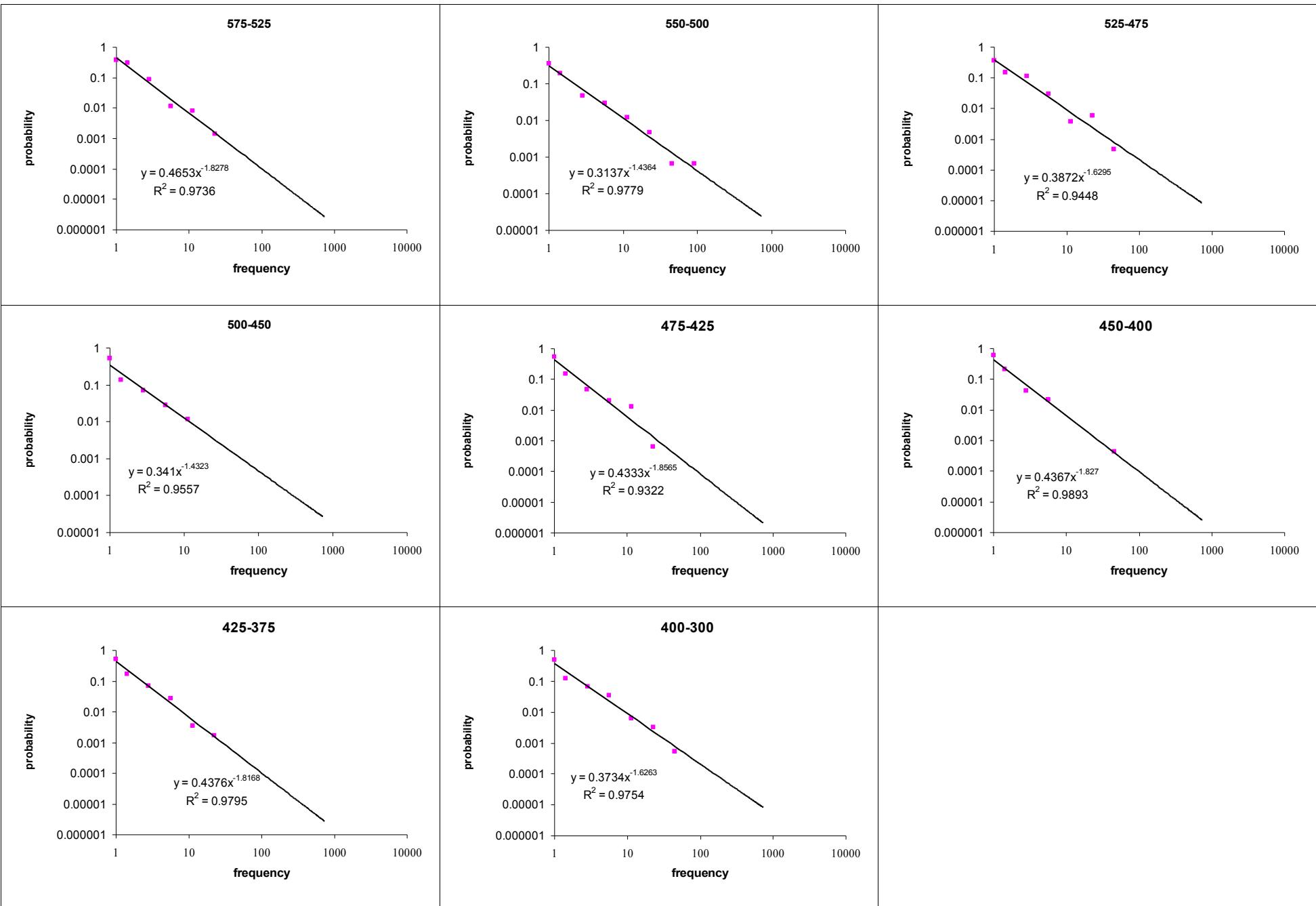
4.7.13 R^2 comparison, model and data



4.7.14 Power laws by date, black-figure hydria

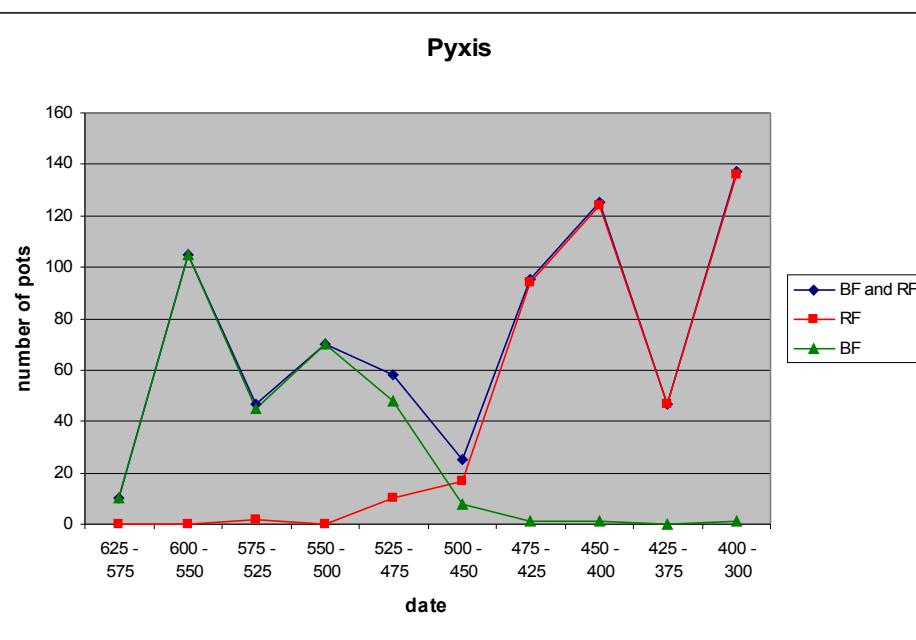


4.7.15 Power laws by date, red-figure hydria

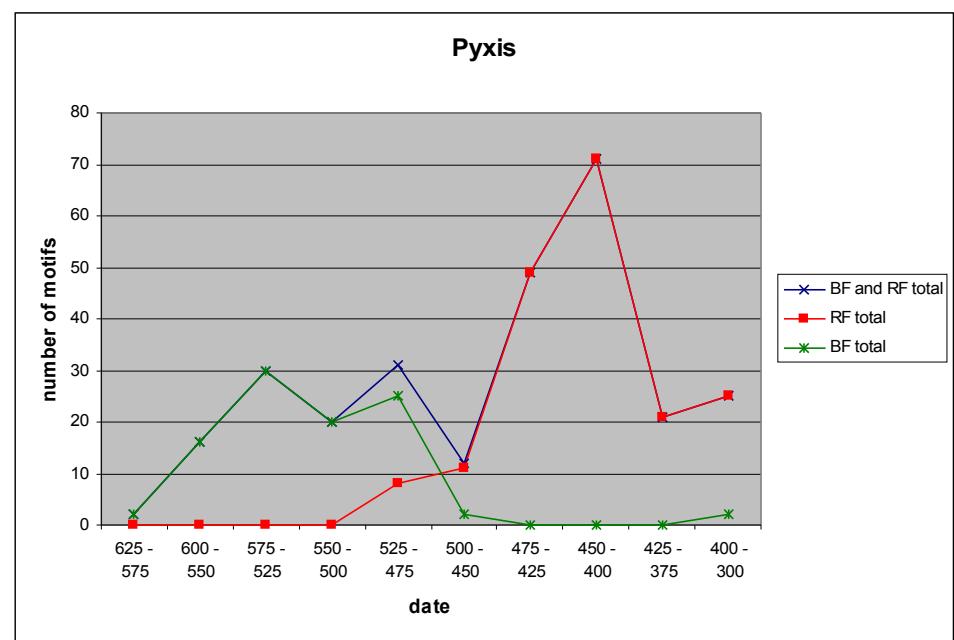


4.7.16 Power laws by date, black-figure and red-figure hydria

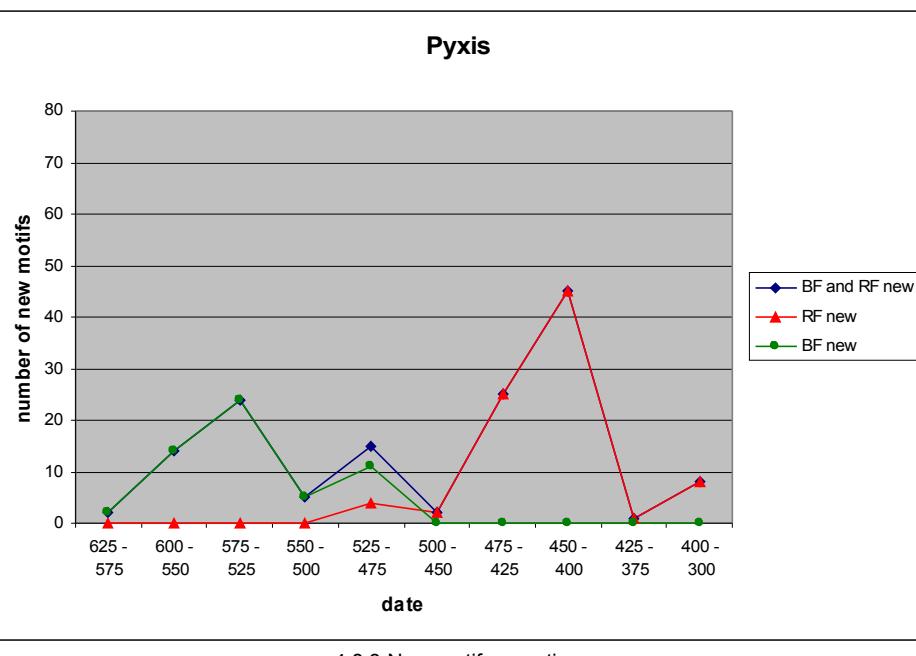
Figures Chapter 4.8 Pyxis



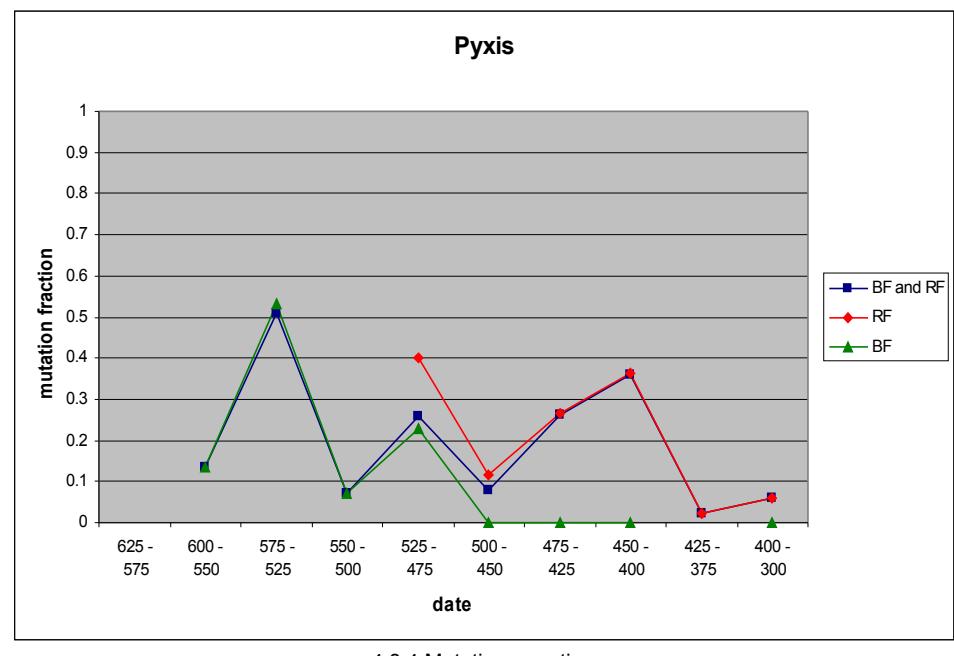
4.8.1 Sample size over time



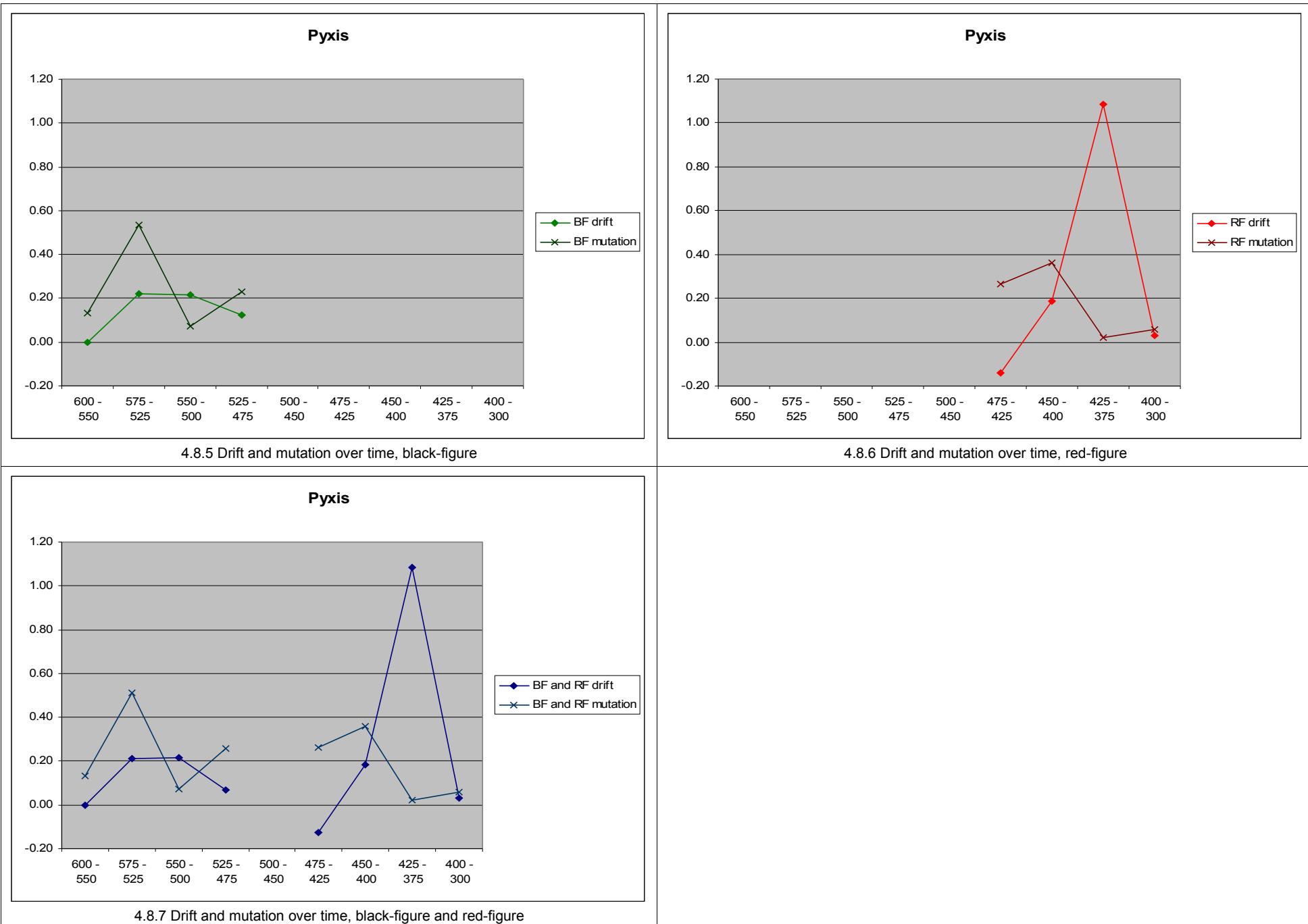
4.8.2 Motifs over time

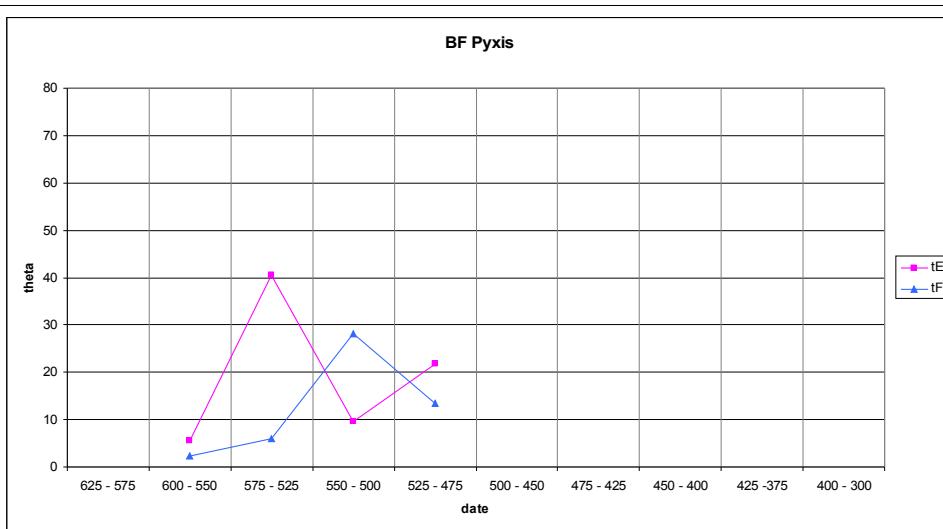


4.8.3 New motifs over time

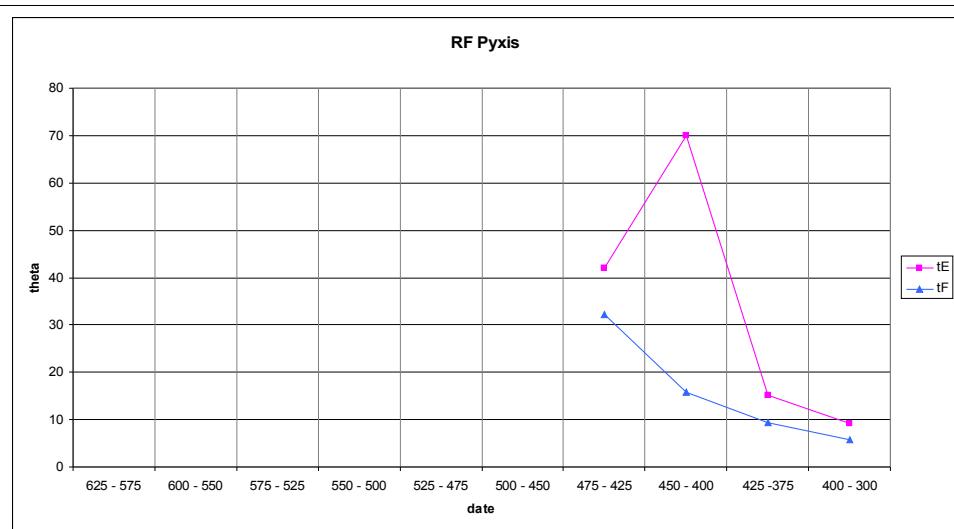


4.8.4 Mutation over time

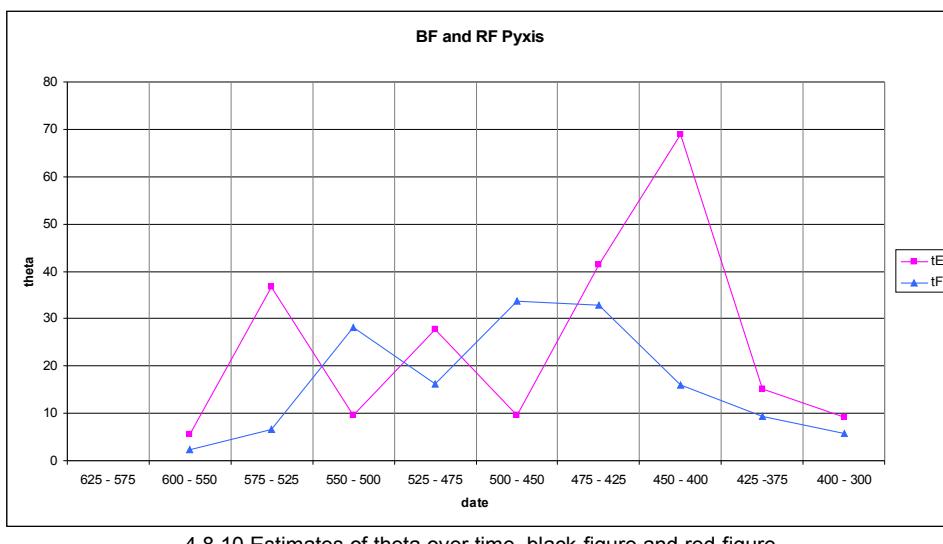




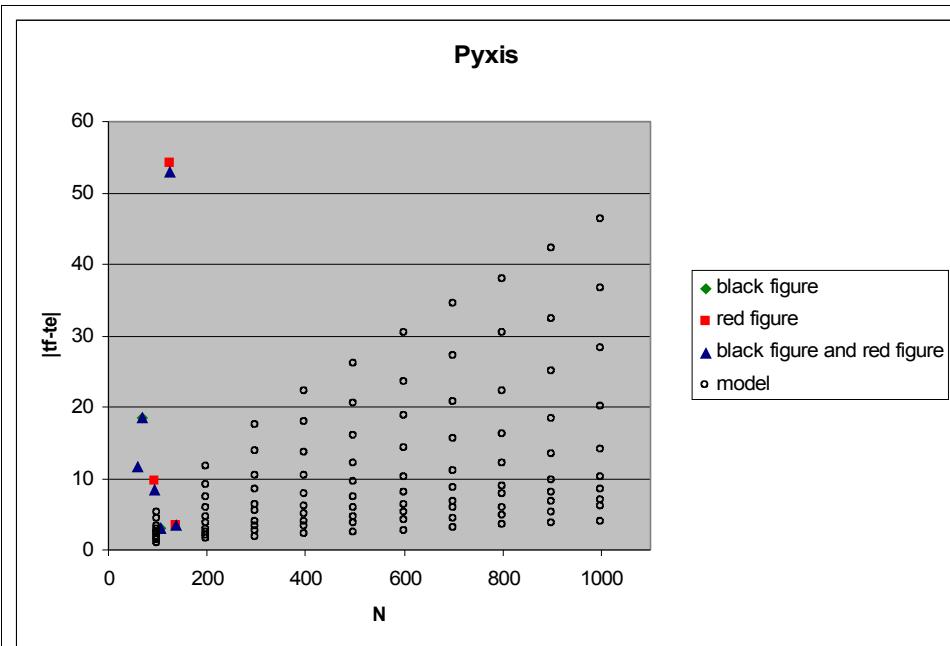
4.8.8 Estimates of theta over time, black-figure



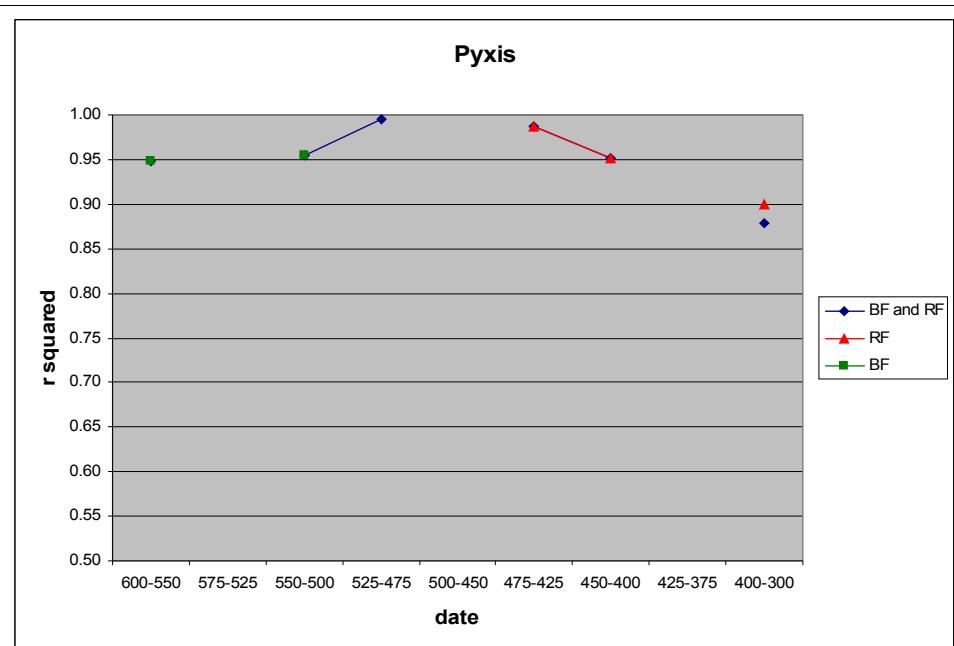
4.8.9 Estimates of theta over time, red-figure



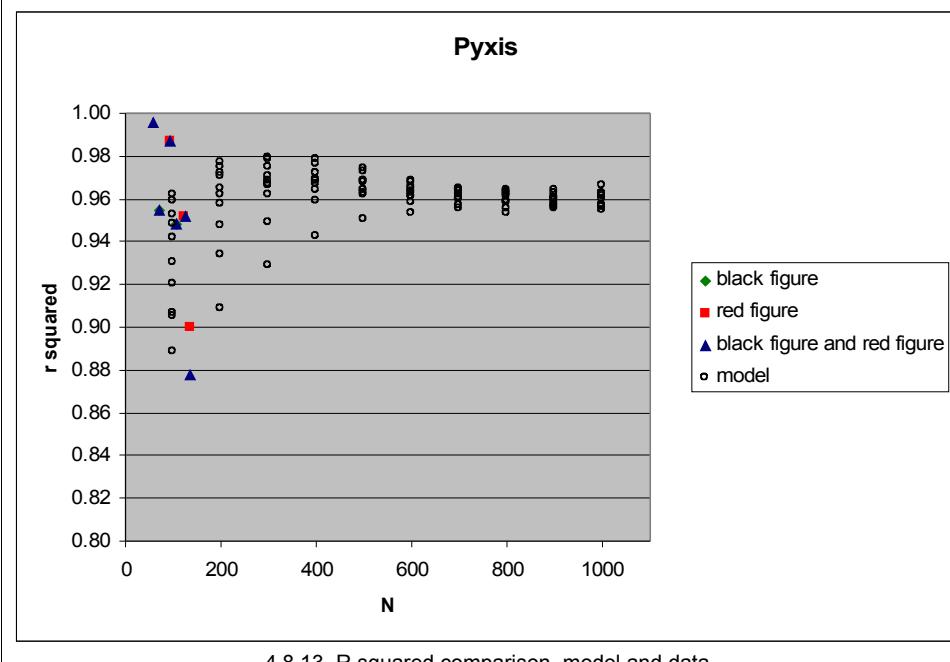
4.8.10 Estimates of theta over time, black-figure and red-figure



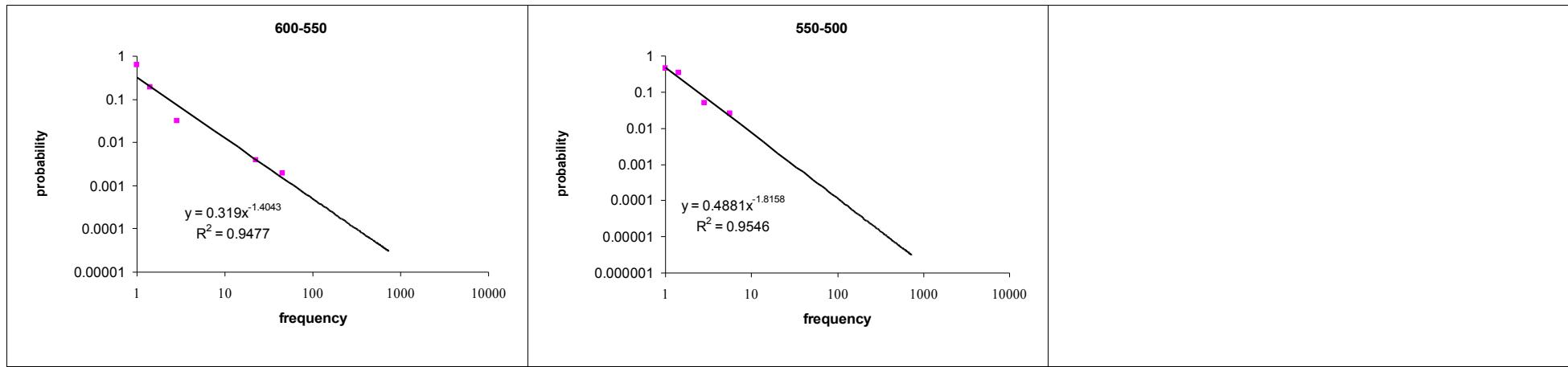
4.8.11 $|tf-te|$ comparison, model and data



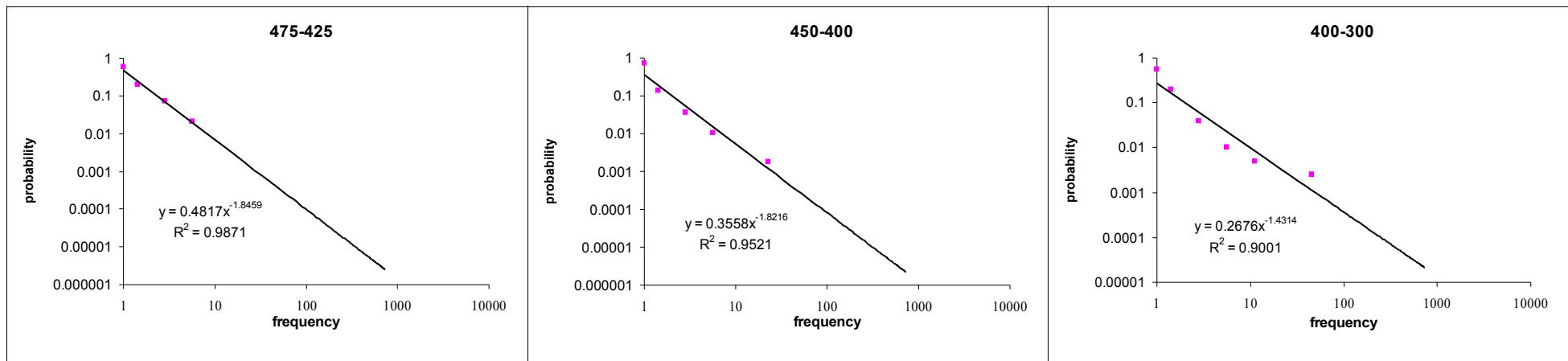
4.8.12 R^2 values over time



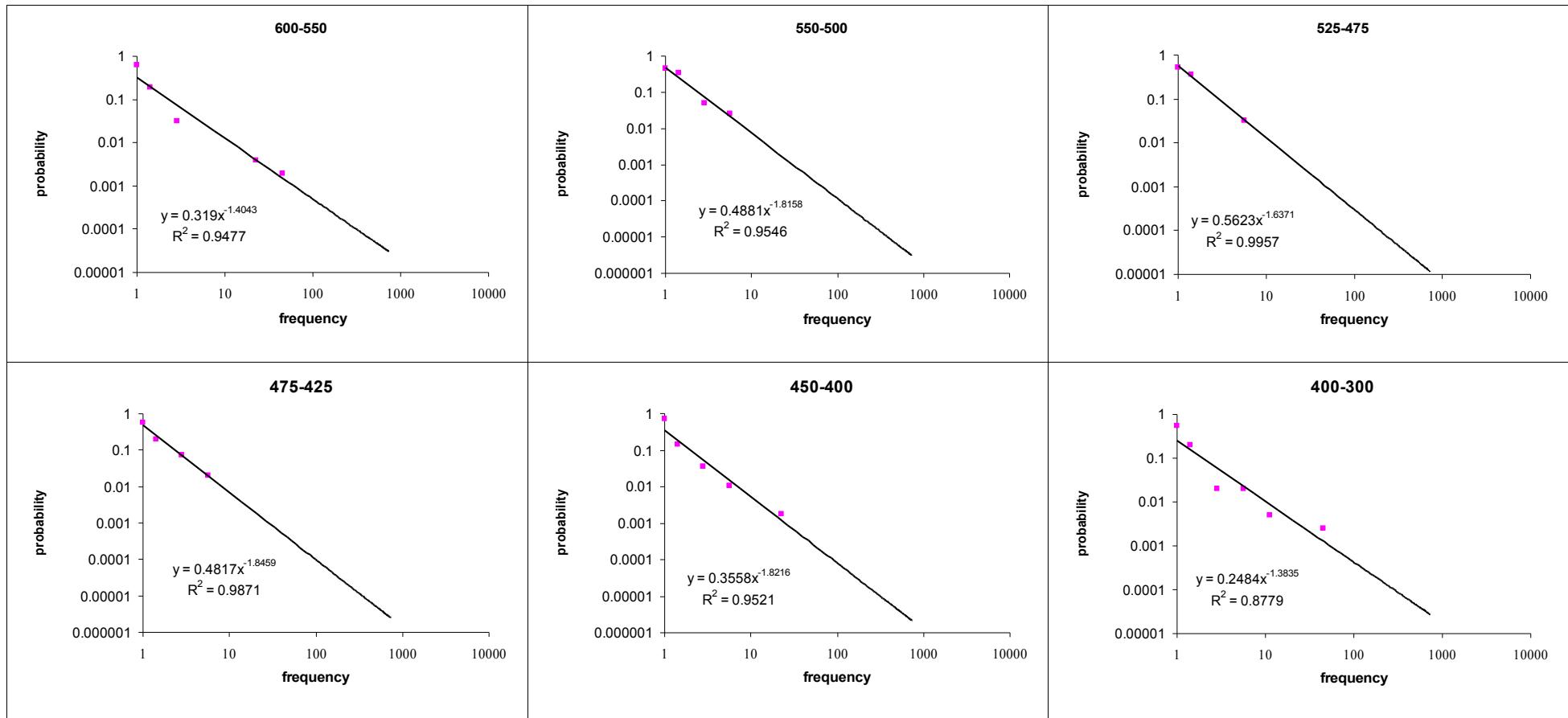
4.8.13 R^2 comparison, model and data



4.8.14 Power laws by date, black-figure pyxis

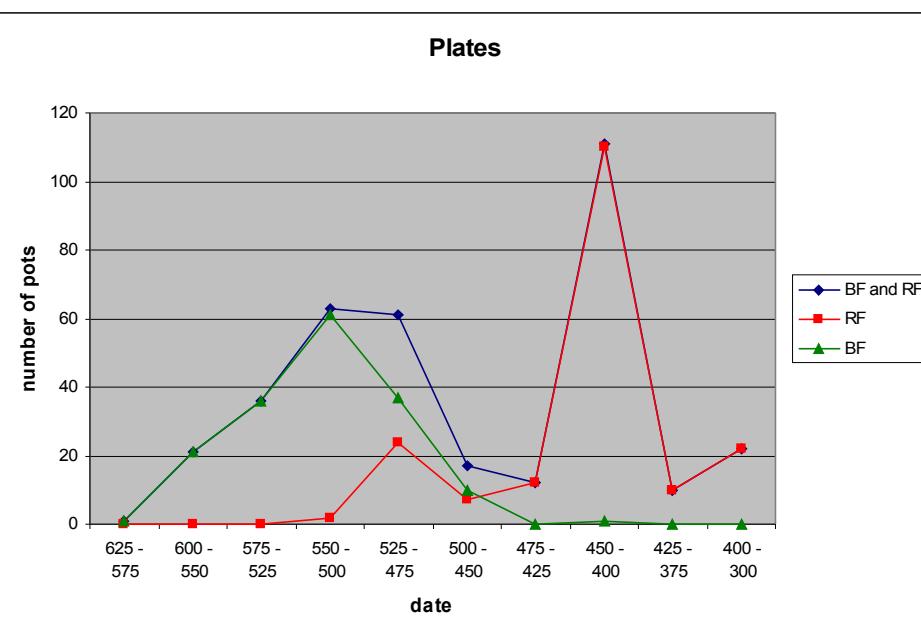


4.8.15 Power laws by date, red-figure pyxis

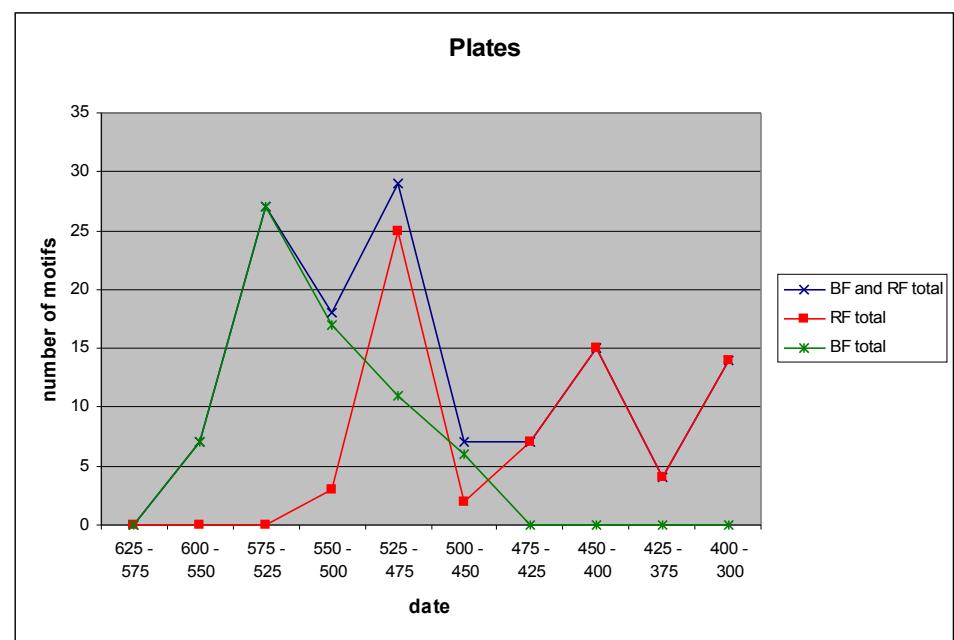


4.8.16 Power laws by date, black-figure and red-figure pyxides

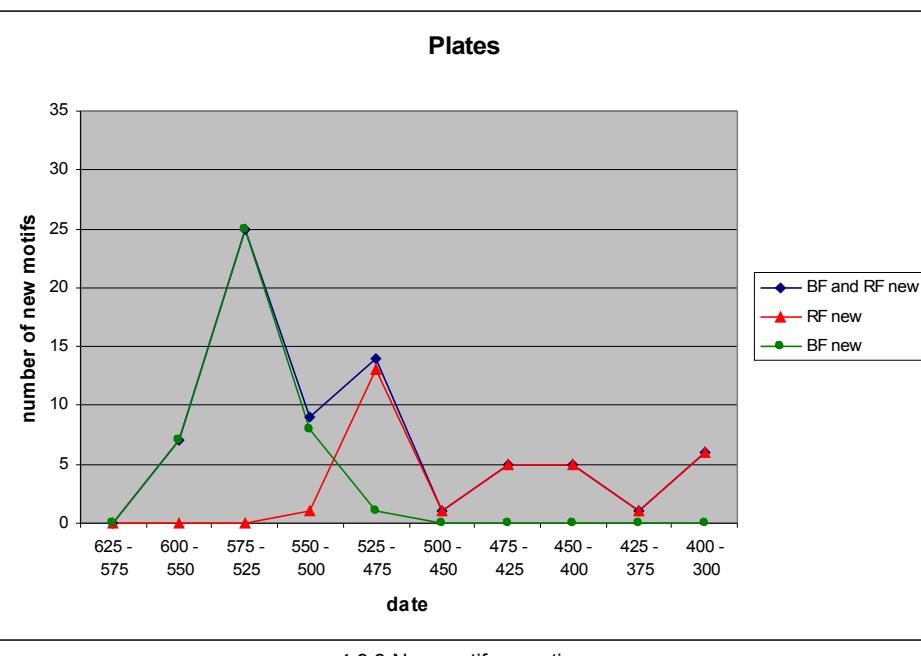
Figures Chapter 4.9 Plates



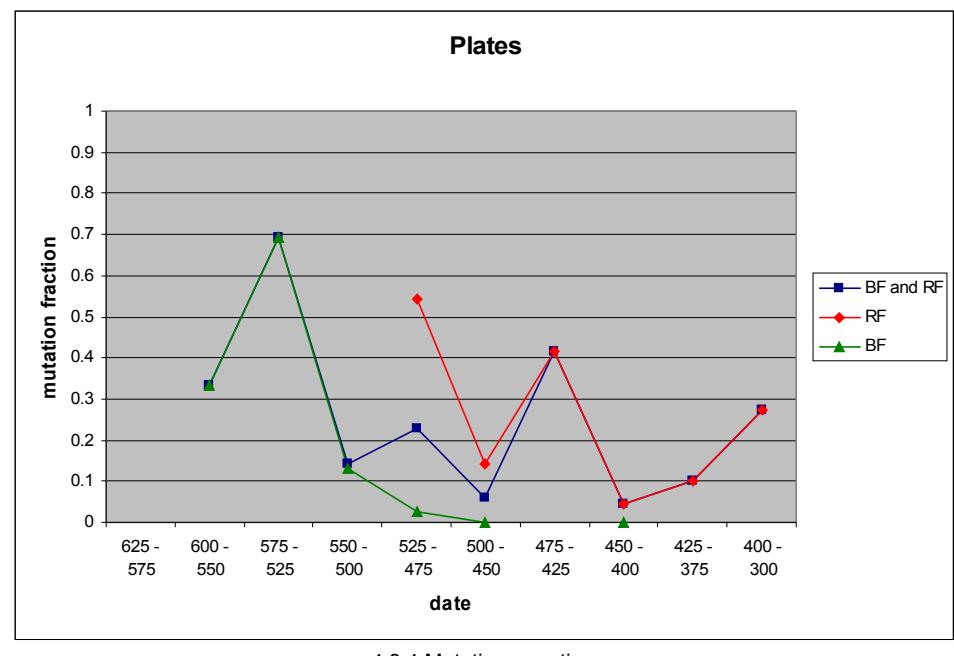
4.9.1 Sample size over time



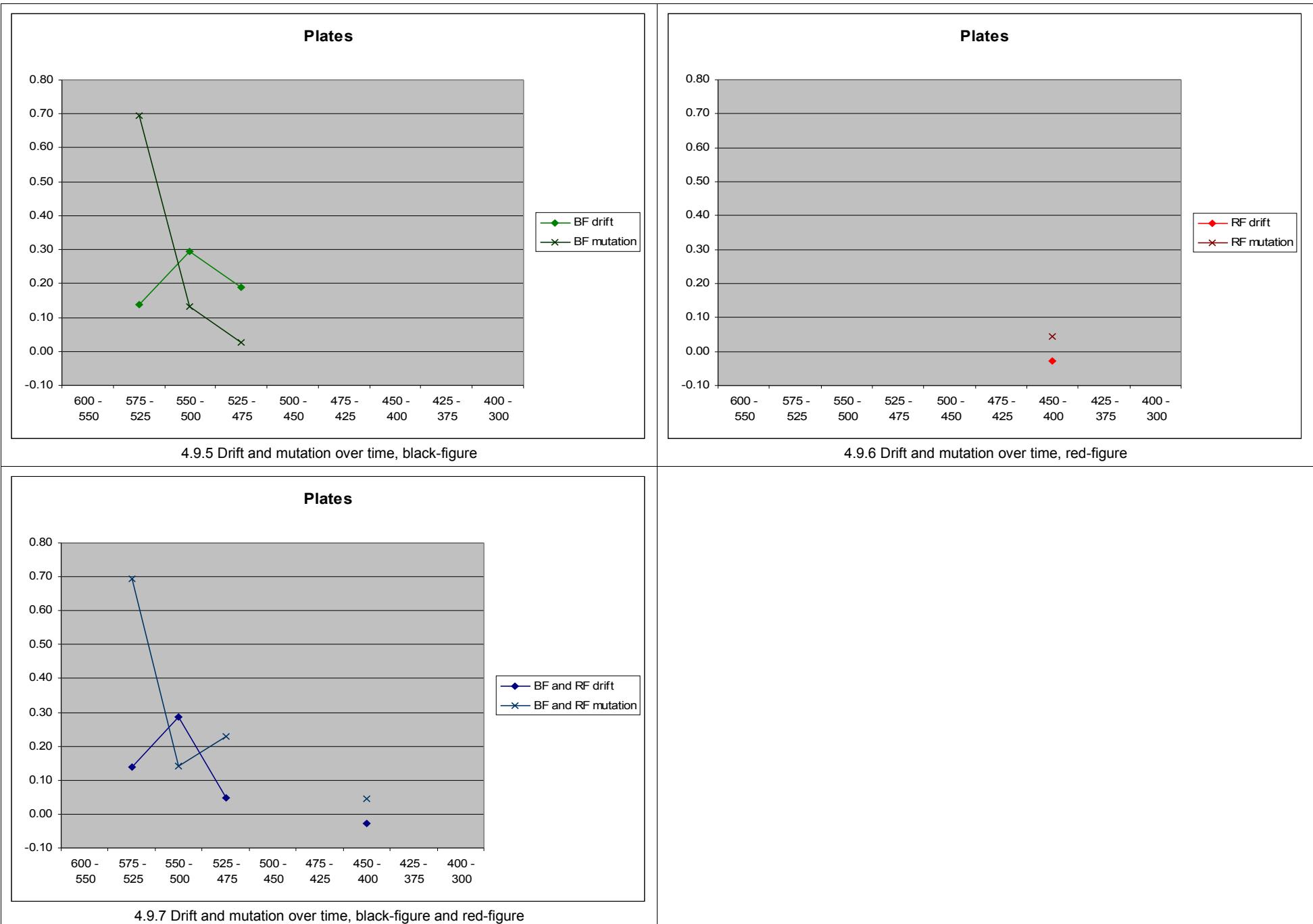
4.9.2 Motifs over time

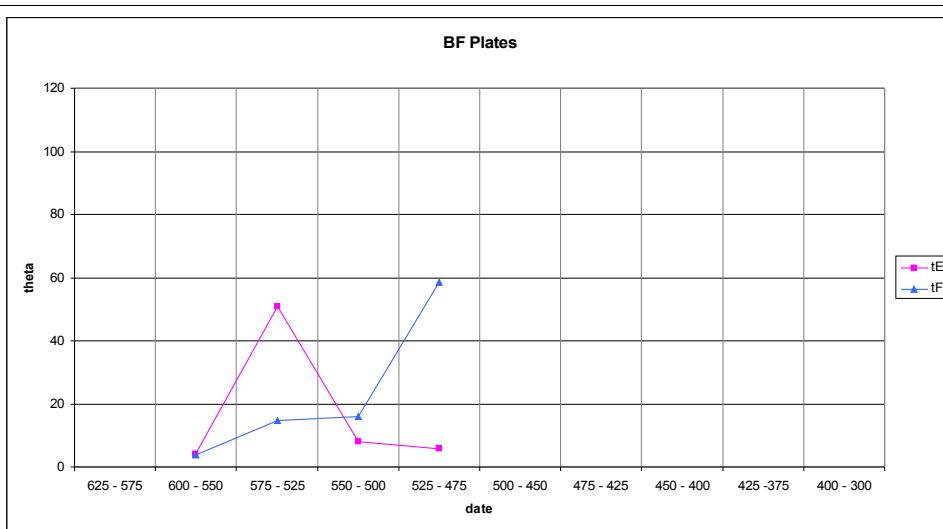


4.9.3 New motifs over time

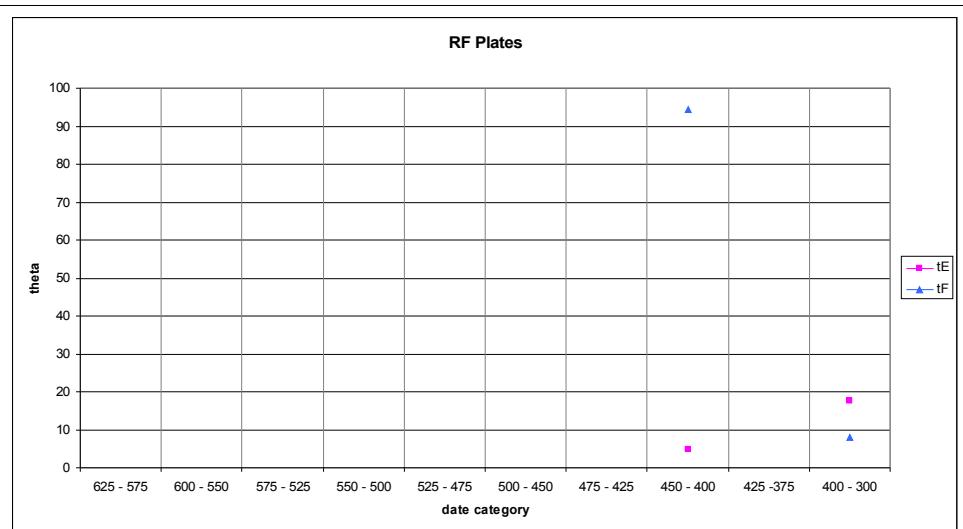


4.9.4 Mutation over time

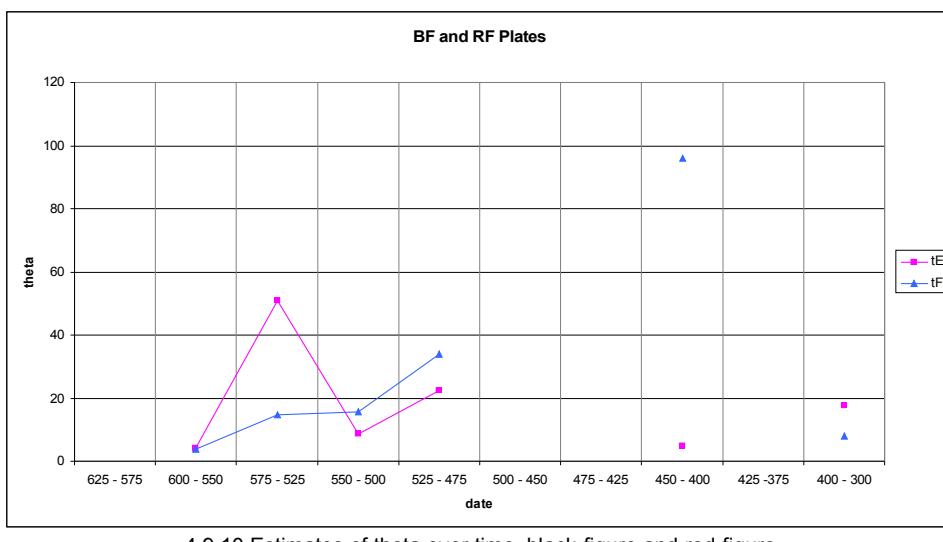




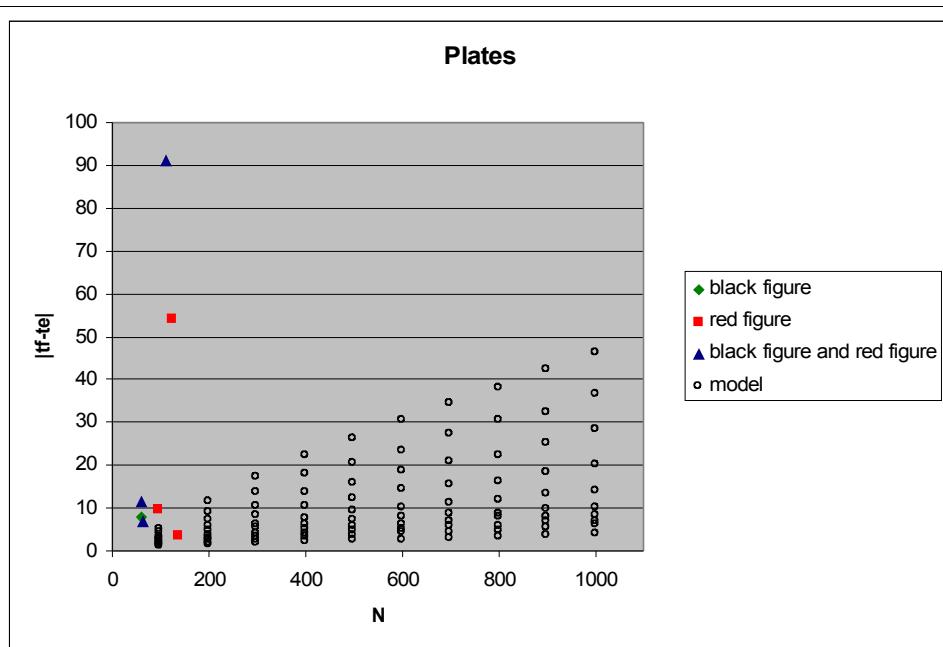
4.9.8 Estimates of theta over time, black-figure



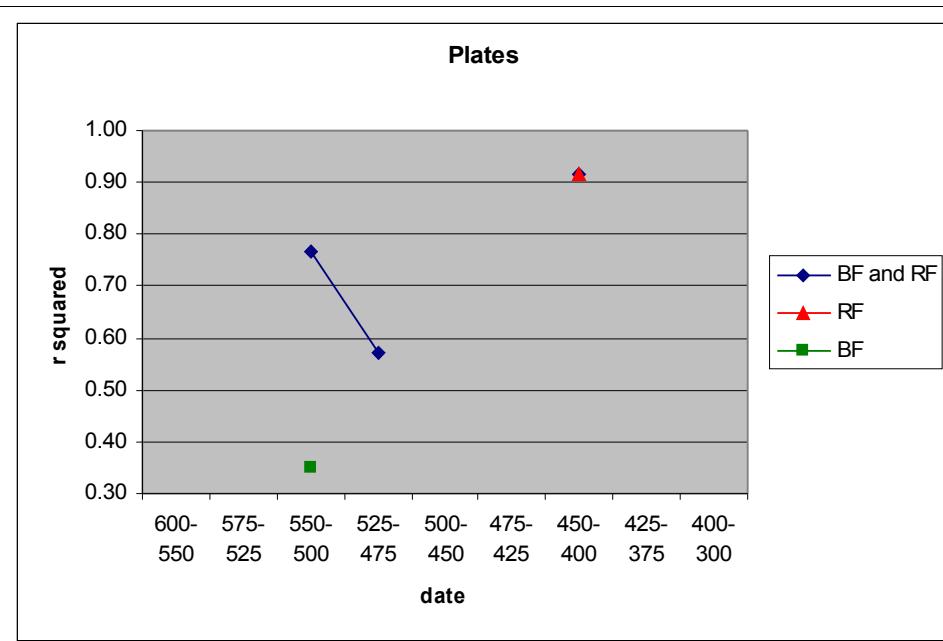
4.9.9 Estimates of theta over time, red-figure



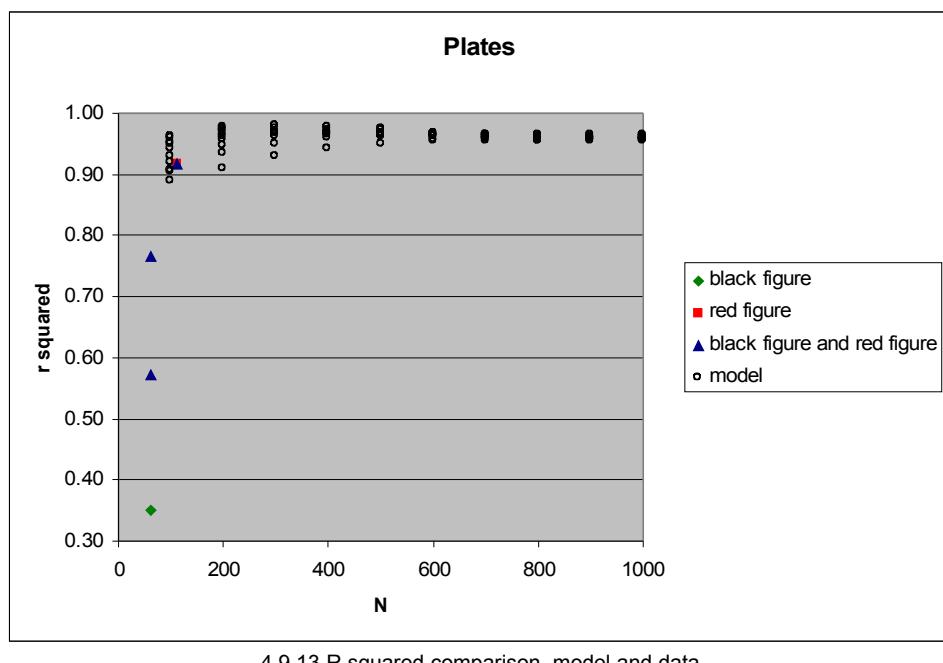
4.9.10 Estimates of theta over time, black-figure and red-figure



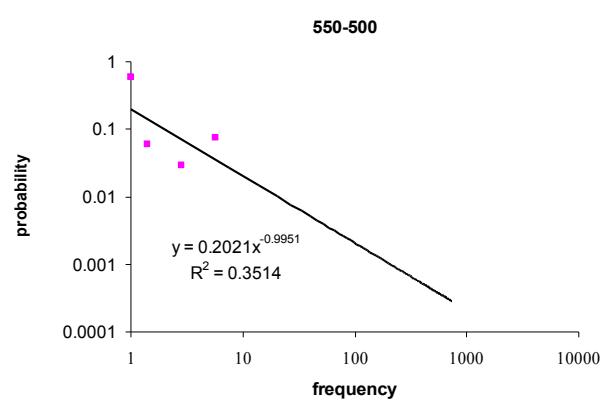
4.9.11 $|tf-te|$ comparison, model and data



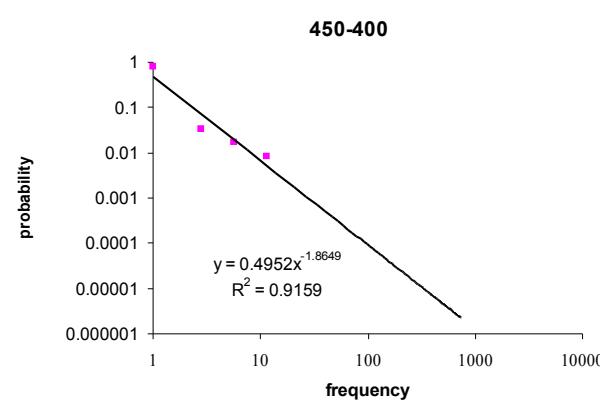
4.9.12 r^2 values over time



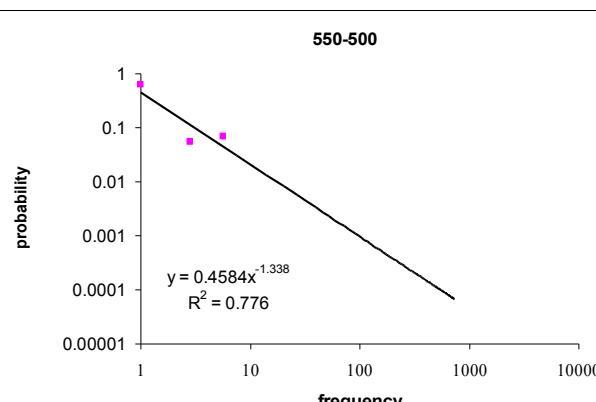
4.9.13 r^2 comparison, model and data



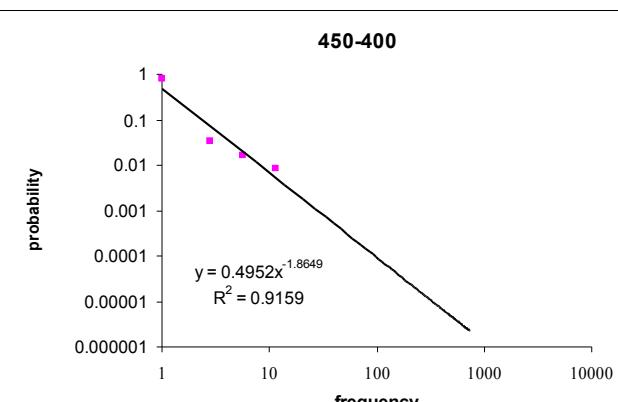
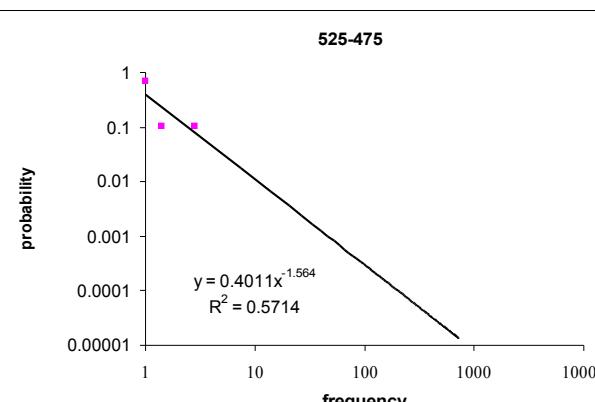
4.9.14 Power laws by date, black-figure plates



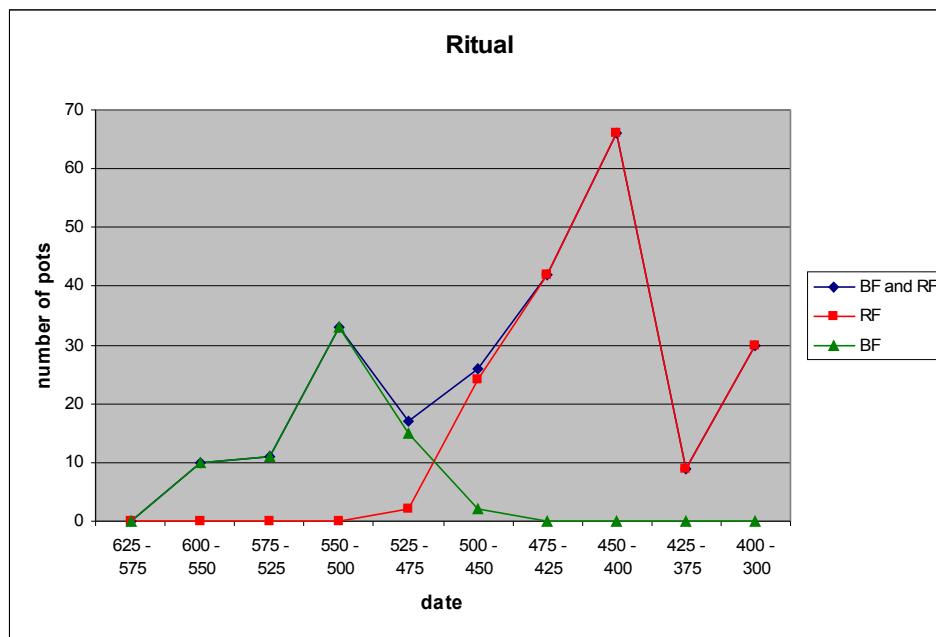
4.9.15 Power laws by date, red-figure plates



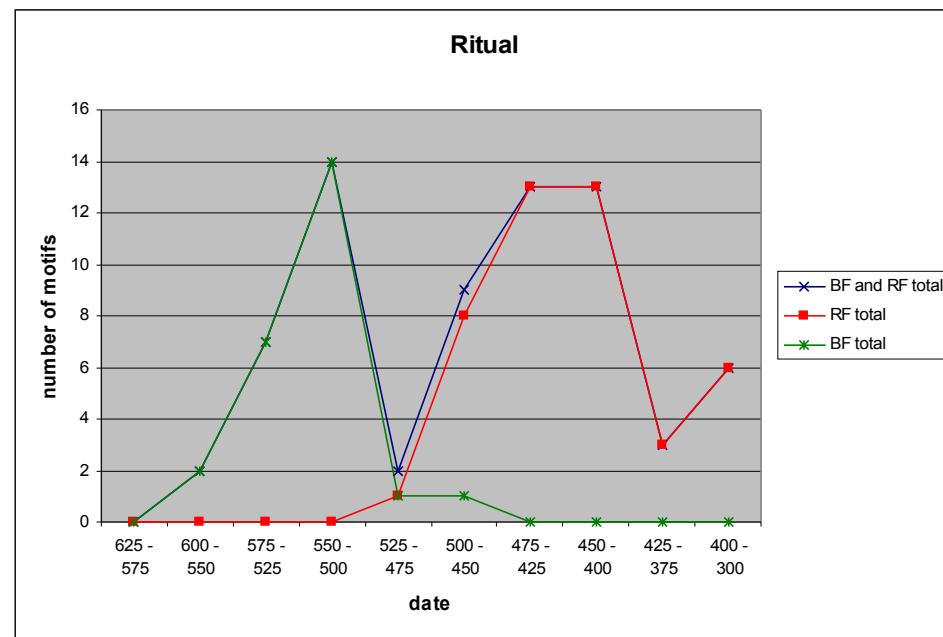
4.9.16 Power laws by date, black-figure and red-figure plates



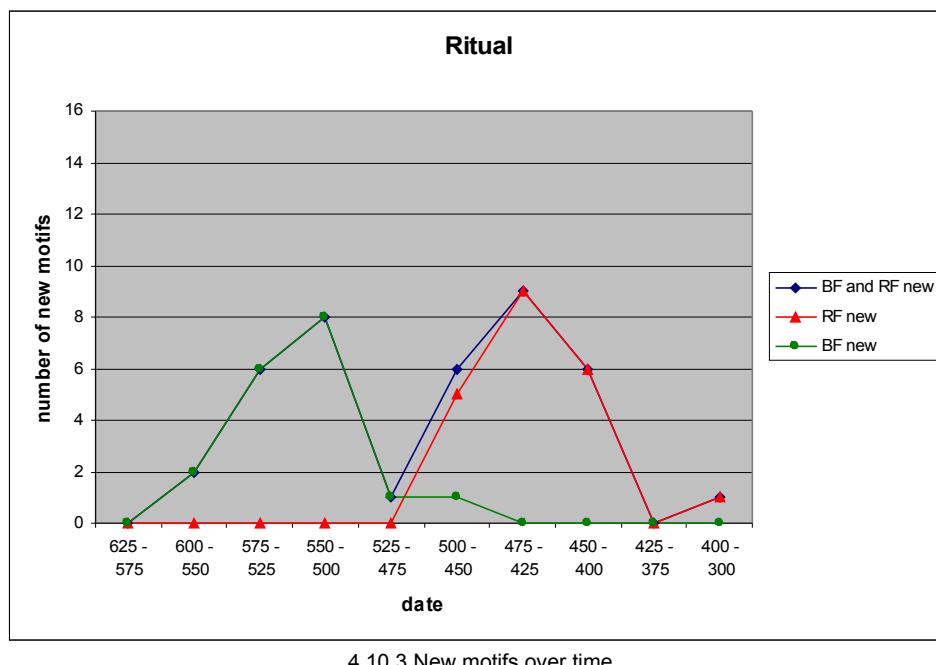
Figures Chapter 4.10 Ritual



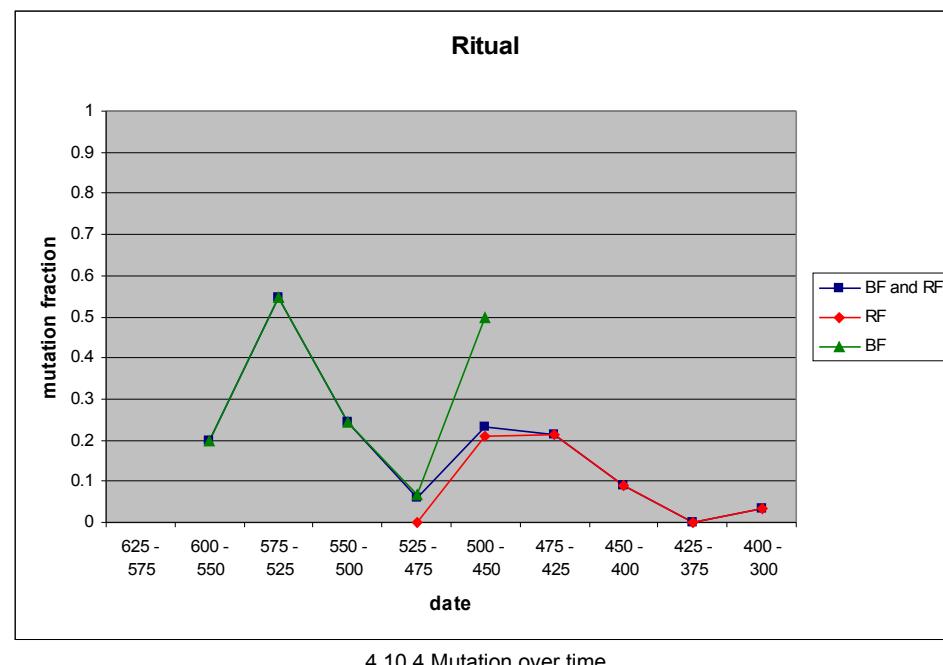
4.10.1 Sample size over time



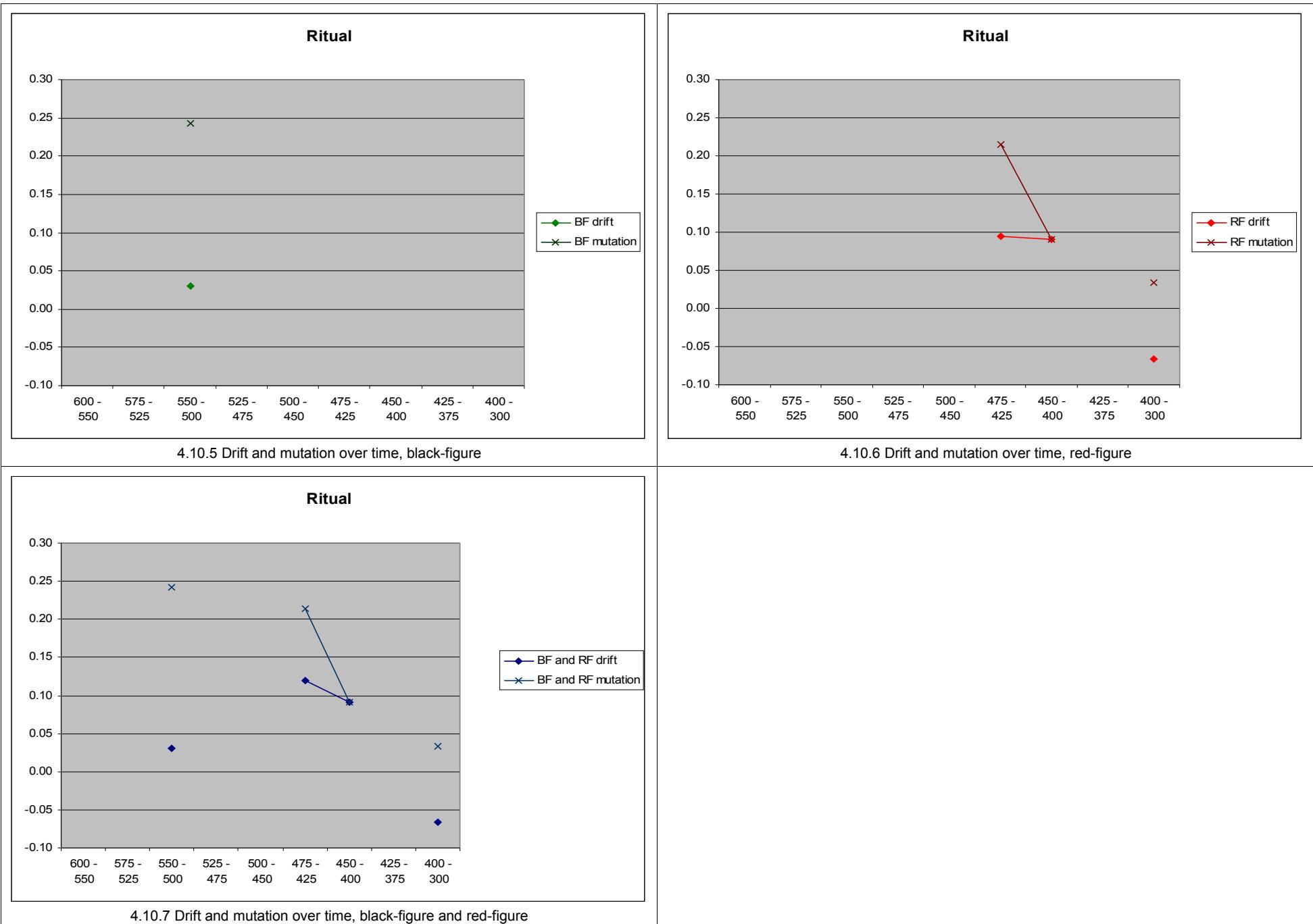
4.10.2 Motifs over time

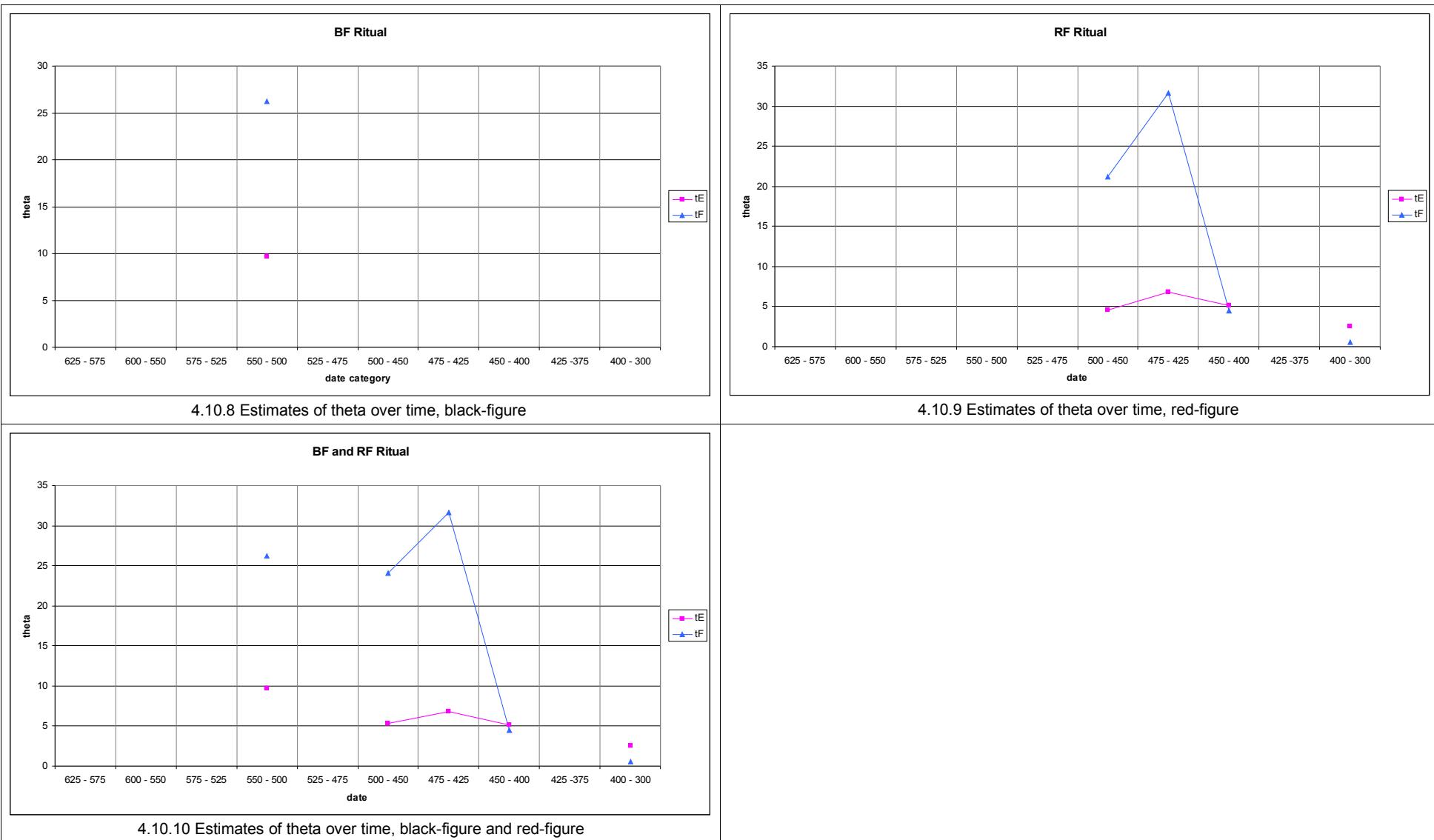


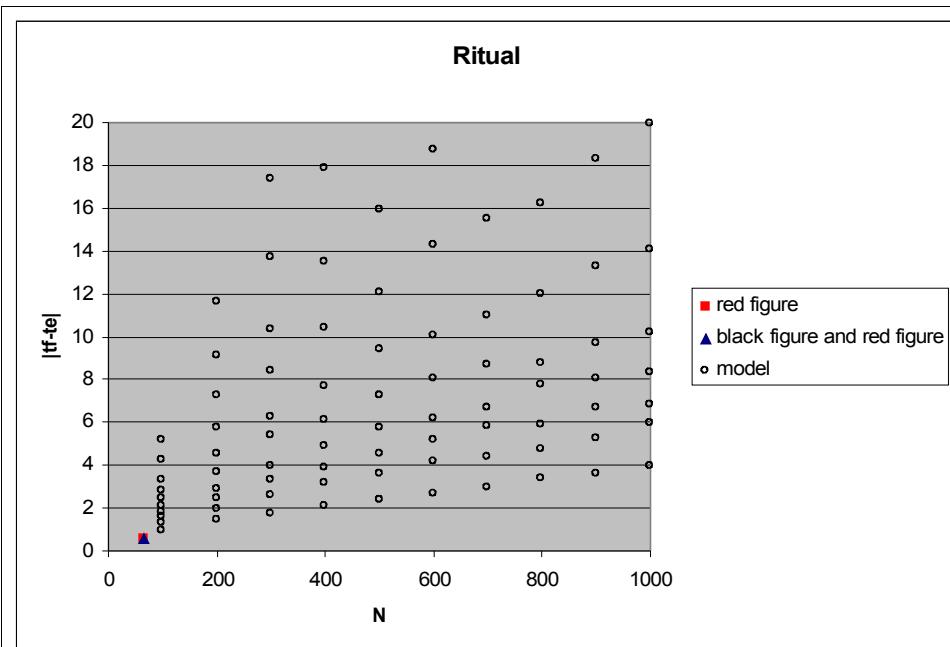
4.10.3 New motifs over time



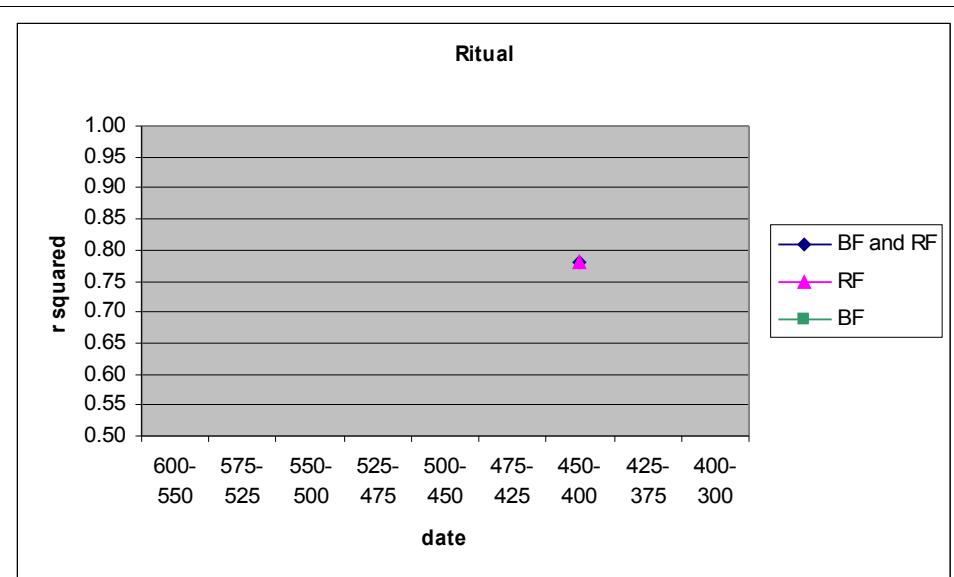
4.10.4 Mutation over time



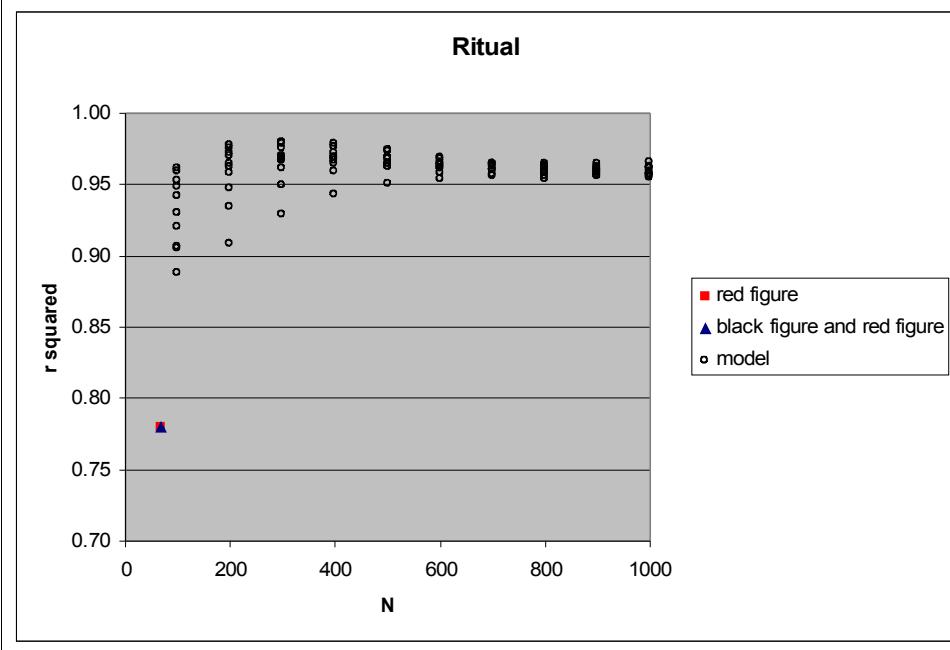




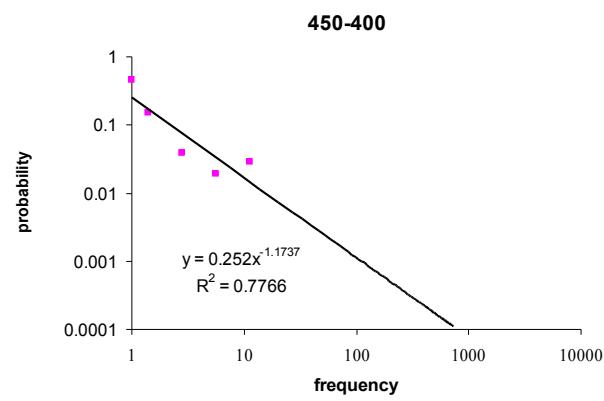
4.10.11 $|tf-te|$ comparison, model and data



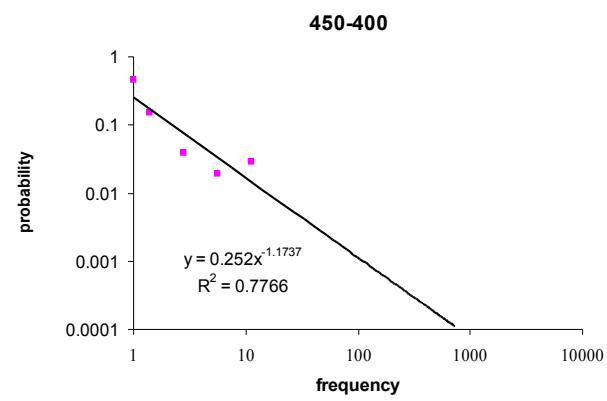
4.10.12 r^2 values over time.



4.10.13 r^2 comparison, model and data

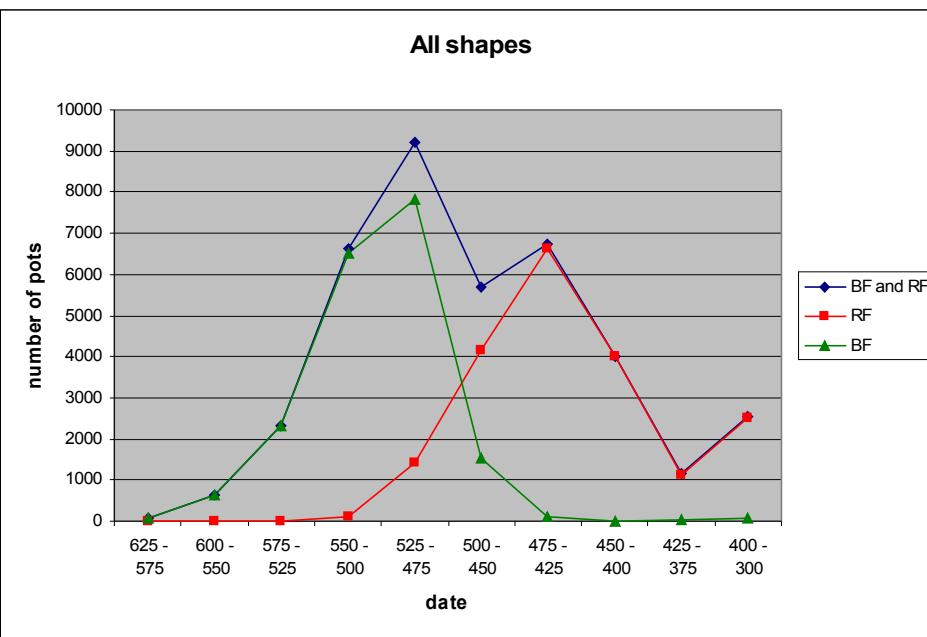


4.10.14 Power laws by date, red-figure ritual

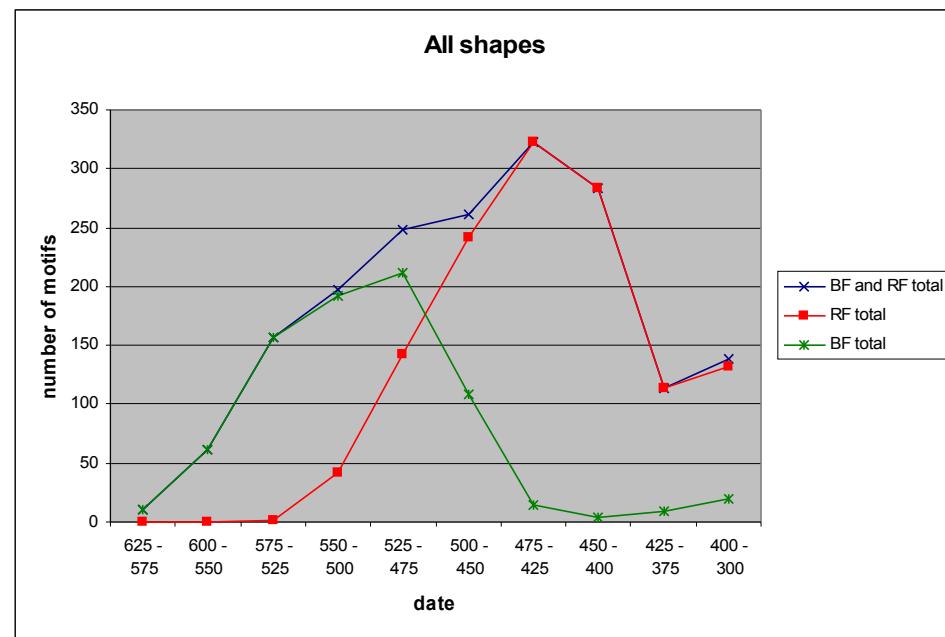


4.10.15 Power laws by date, black-figure and red-figure ritual

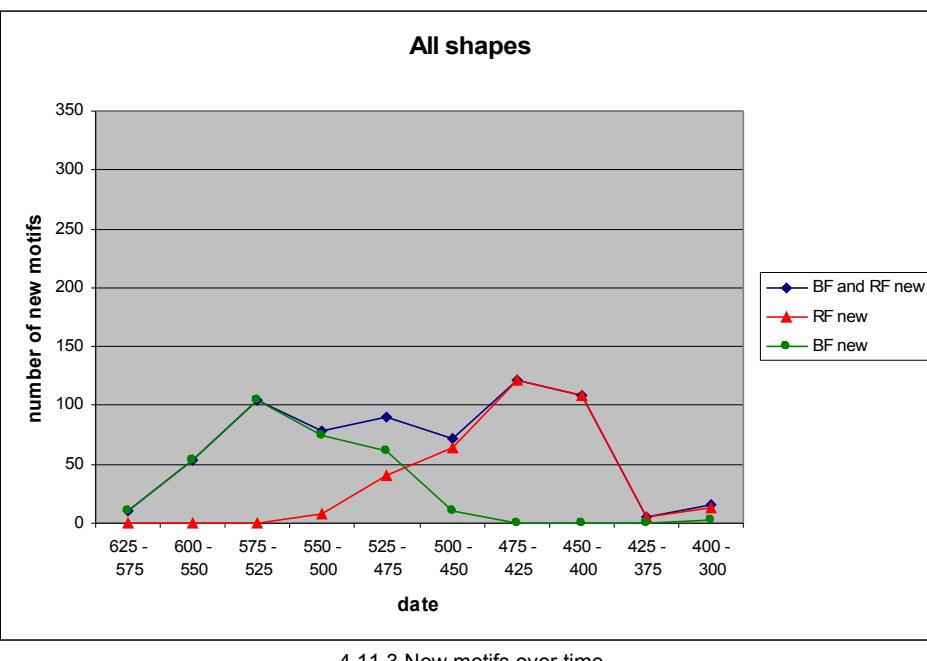
Figures Chapter 4.11 All shapes



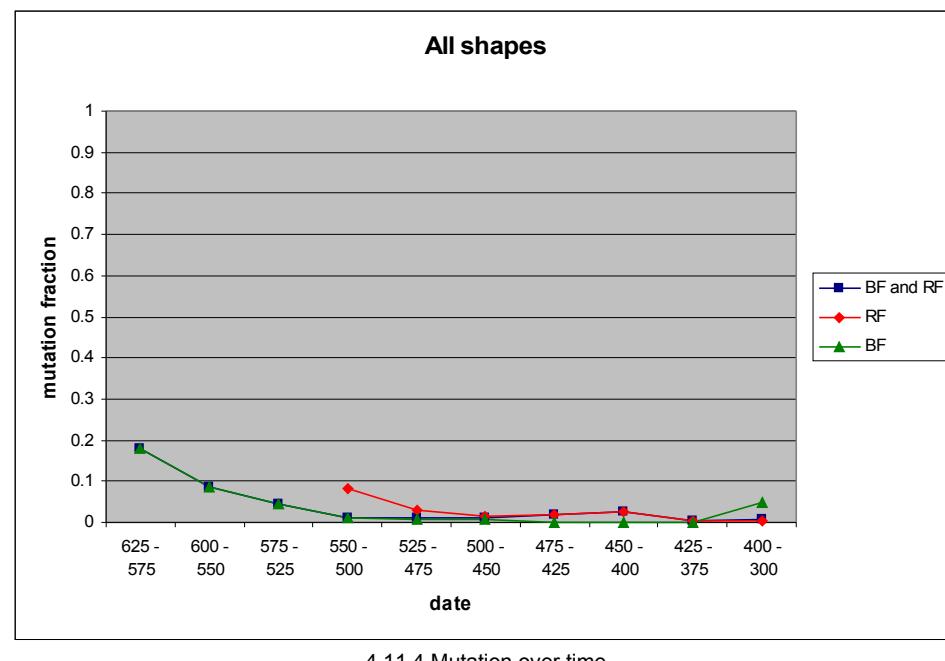
4.11.1 Sample size over time



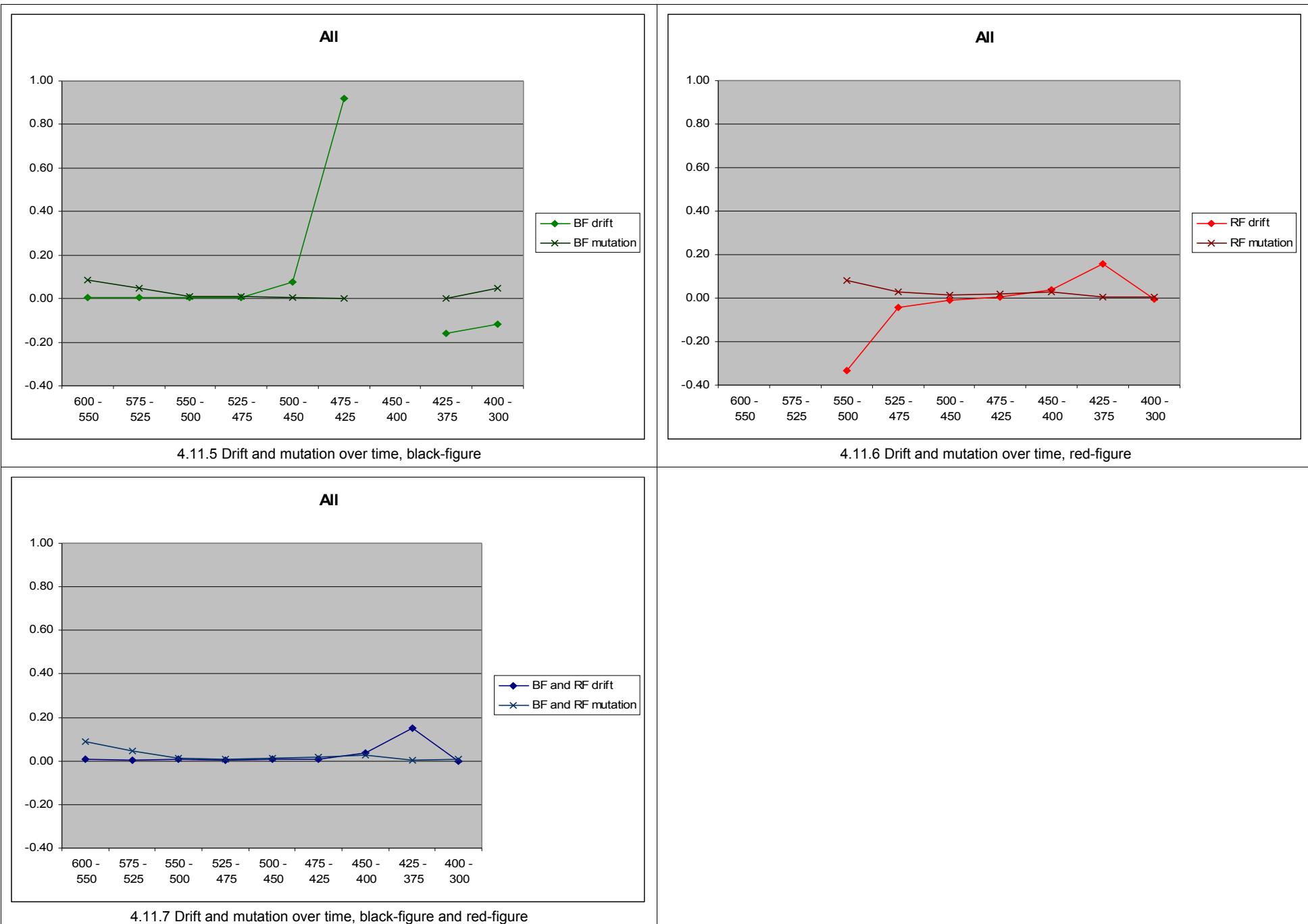
4.11.2 Motifs over time

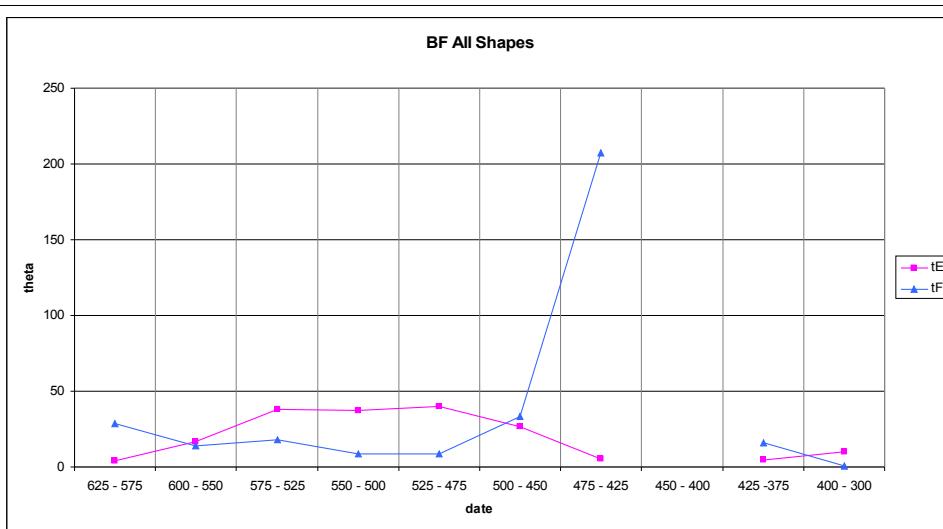


4.11.3 New motifs over time

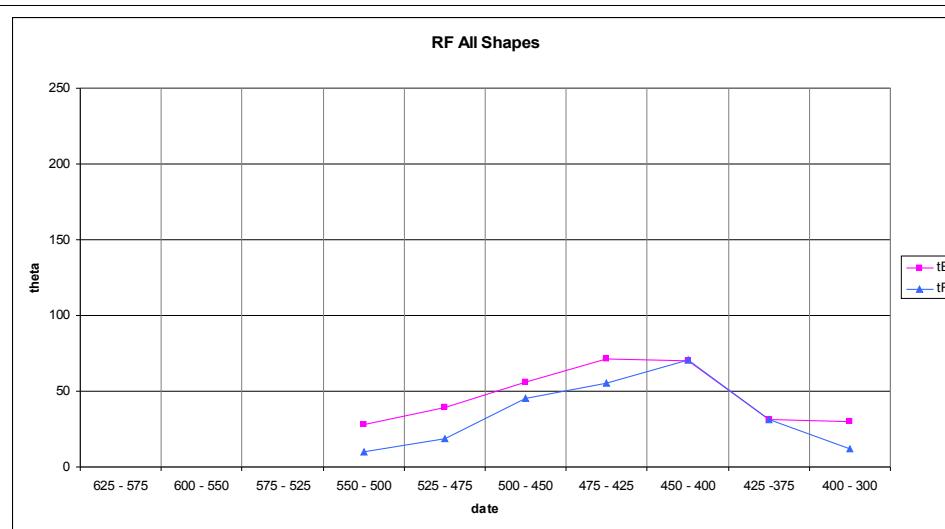


4.11.4 Mutation over time

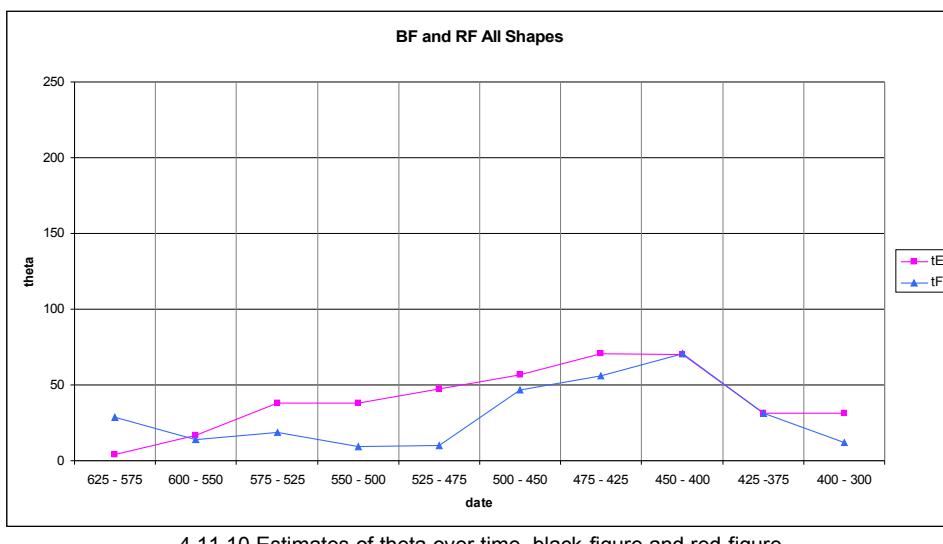




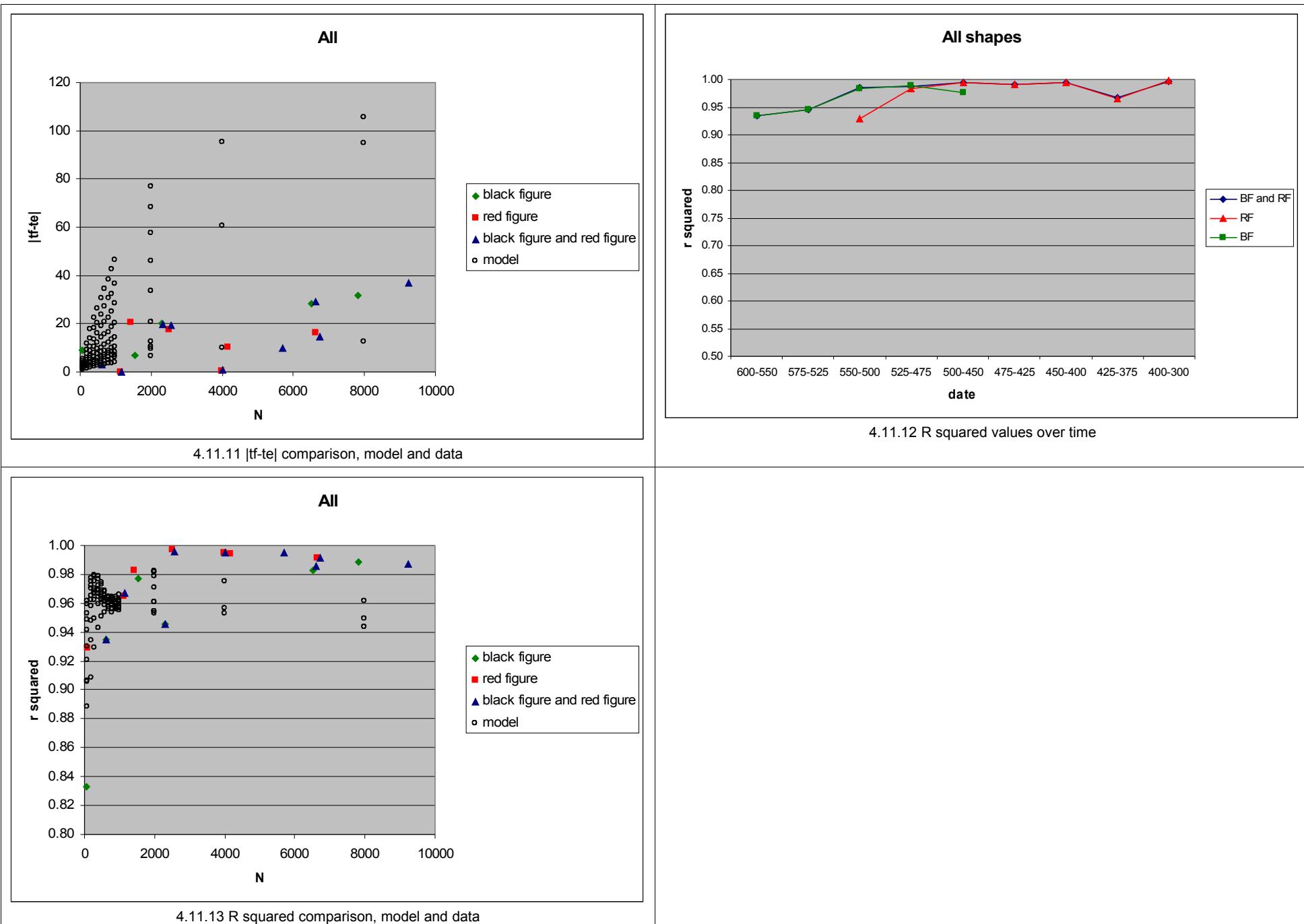
4.11.8 Estimates of theta over time, black-figure

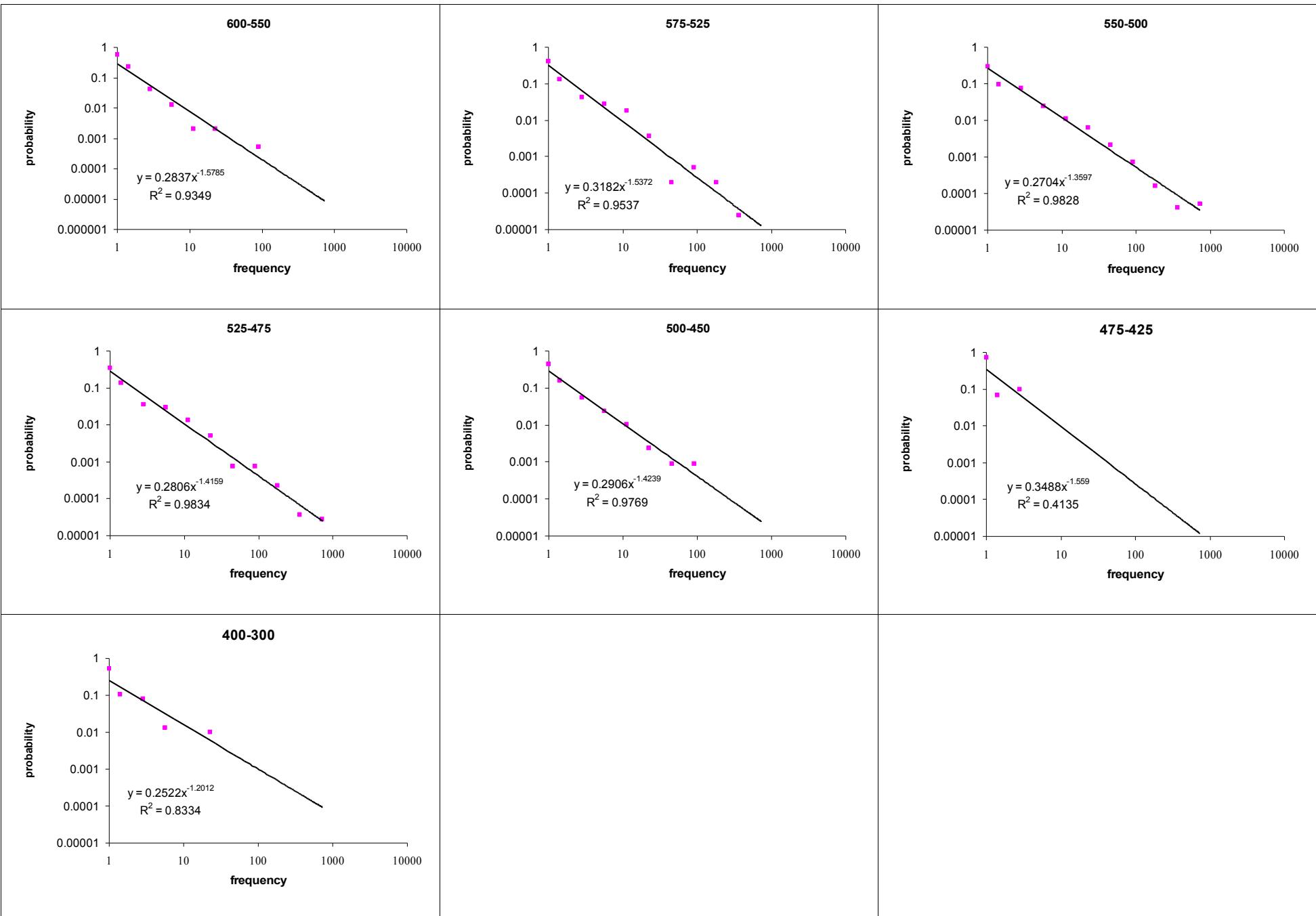


4.11.9 Estimates of theta over time, red-figure

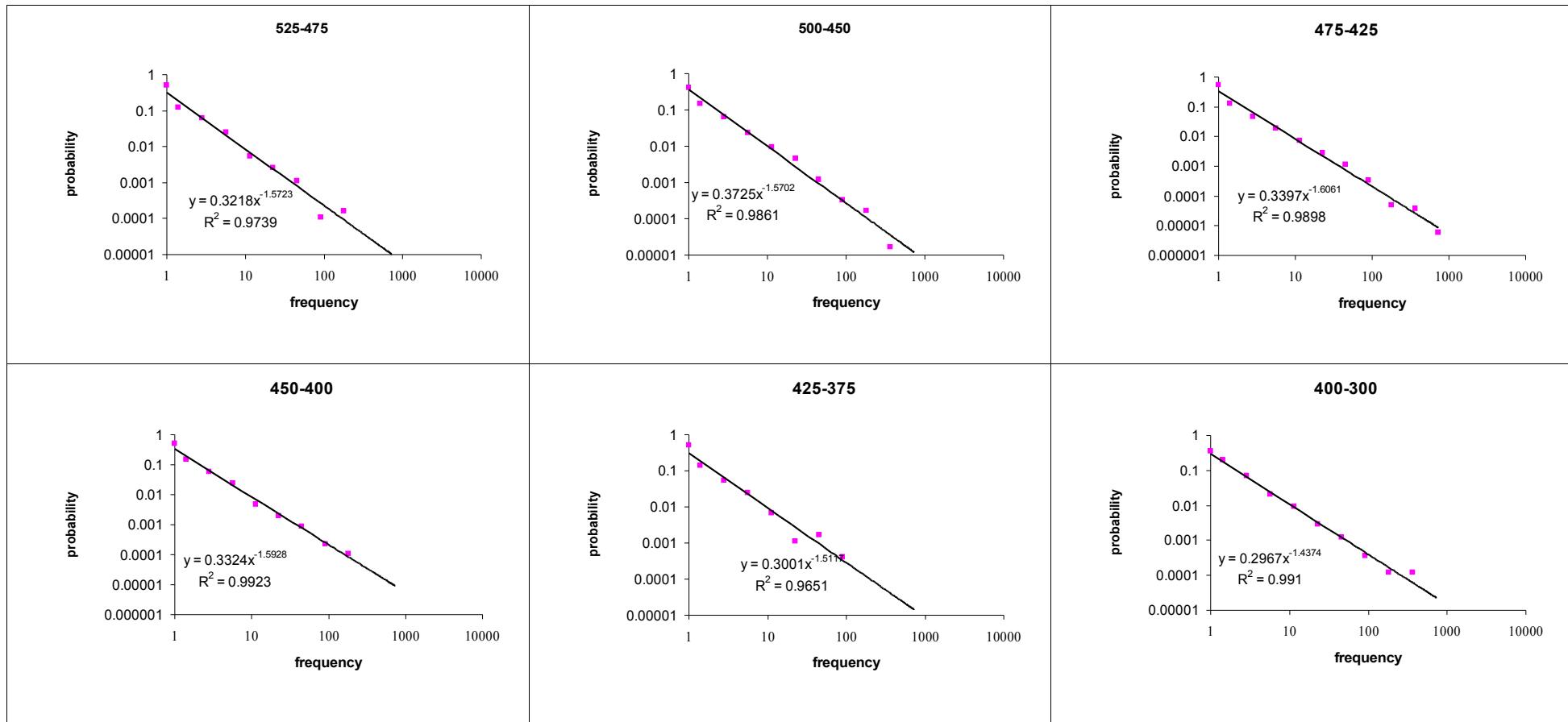


4.11.10 Estimates of theta over time, black-figure and red-figure

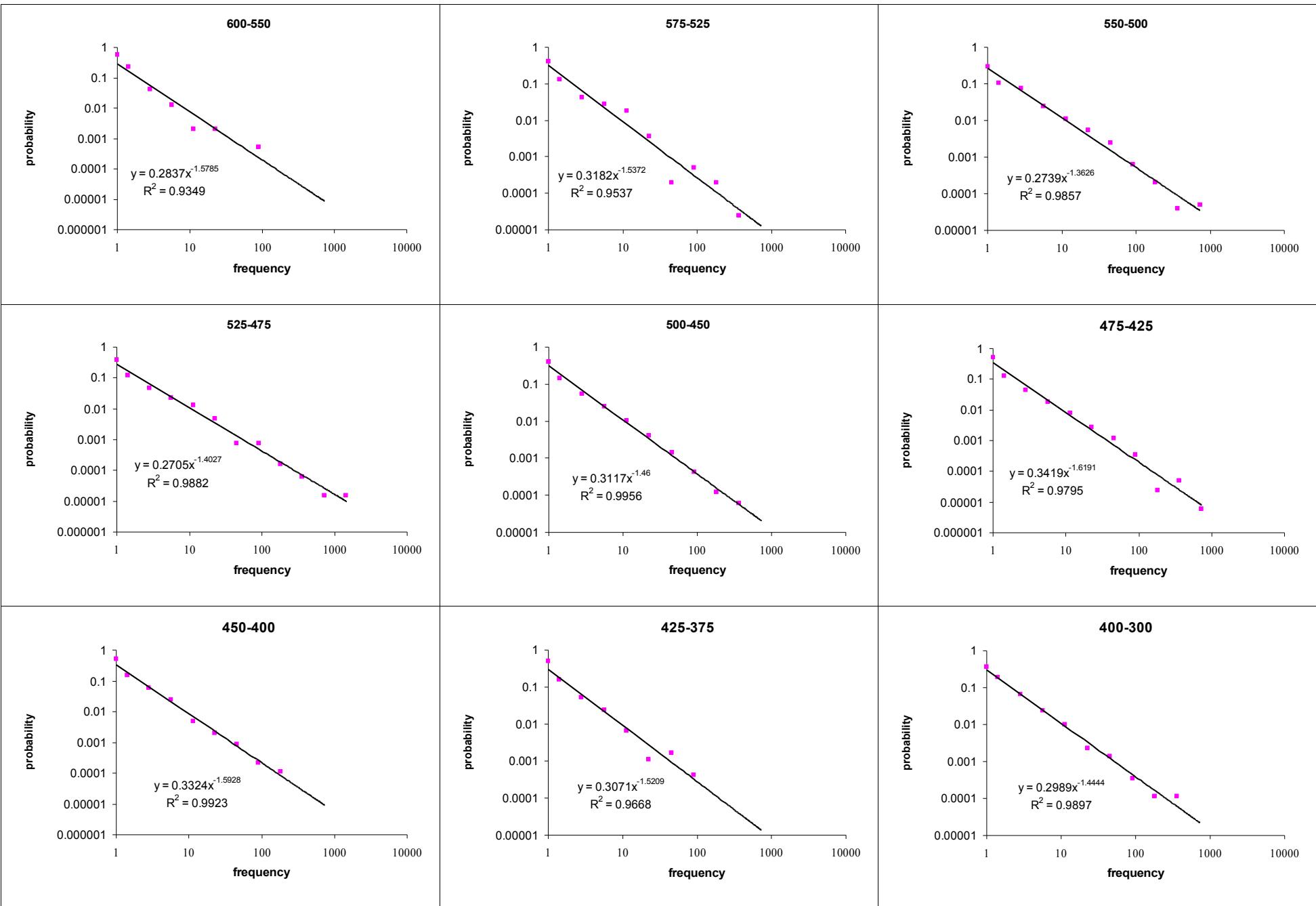




4.11.14 Power laws by date, black-figure all shapes



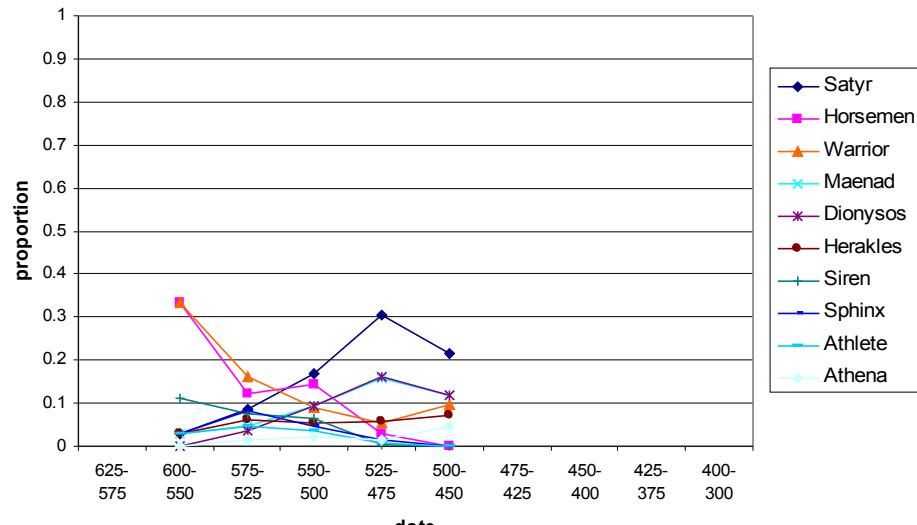
4.11.15 Power laws by date, red-figure all shapes



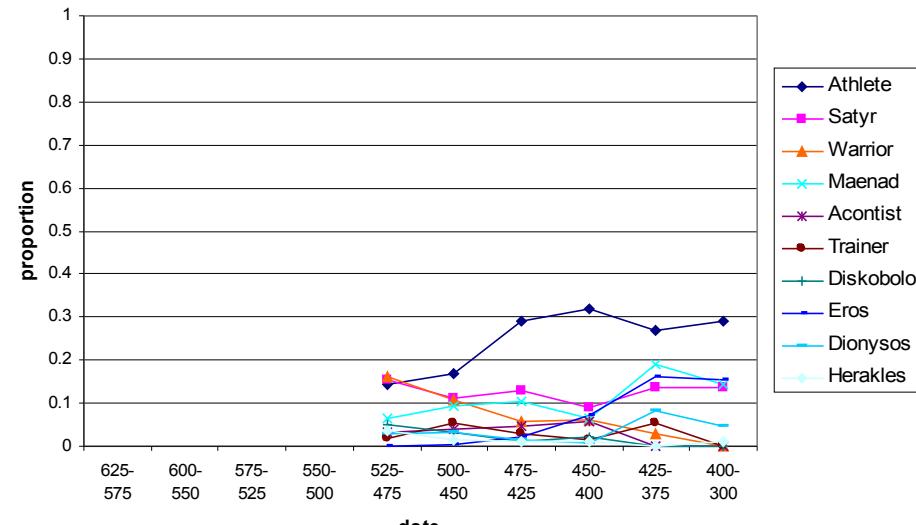
4.11.16 Power laws by date, black-figure and red-figure all shapes

Figures Chapter 5

BF Cups



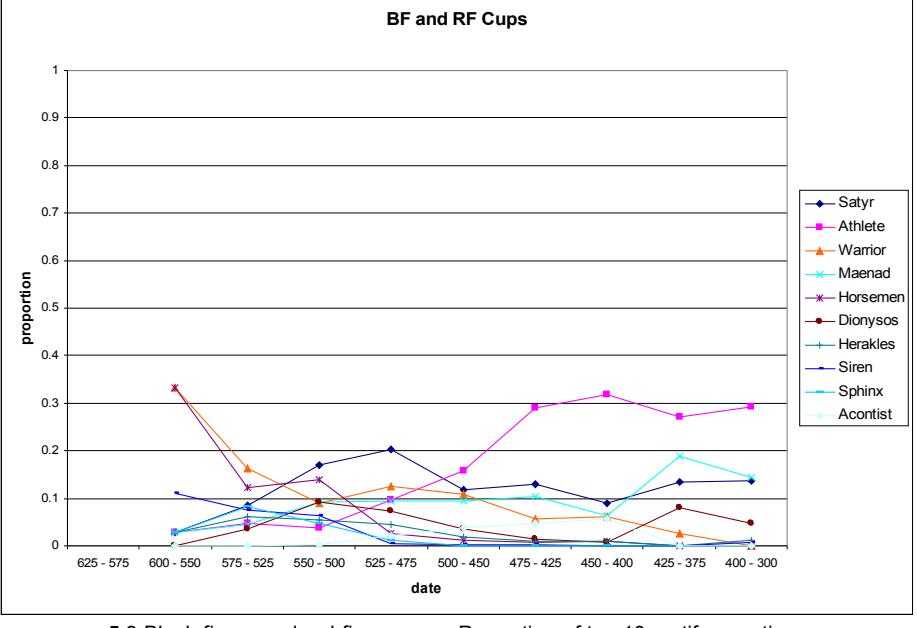
RF Cups



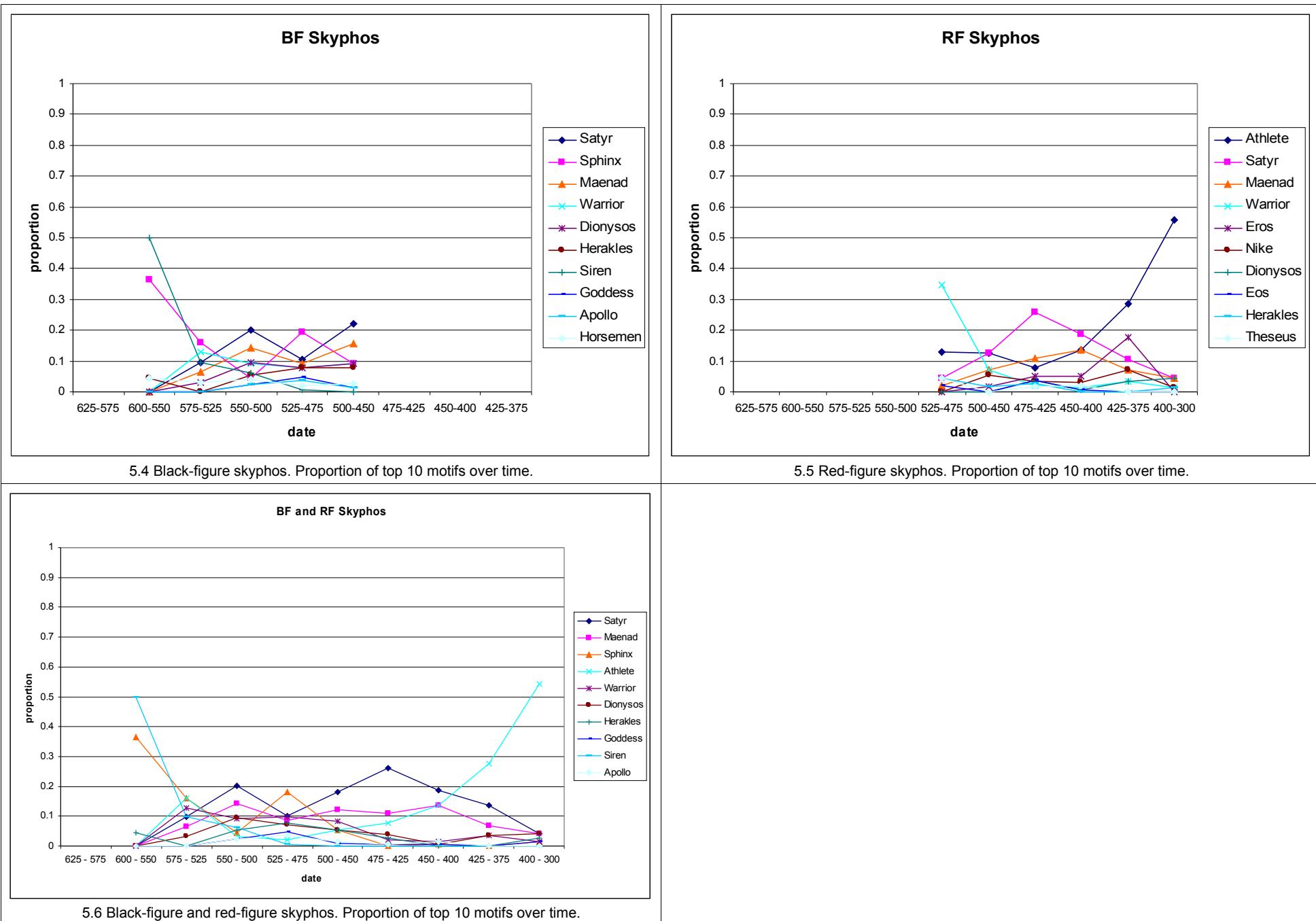
5.1 Black-figure cups. Proportion of top 10 motifs over time.

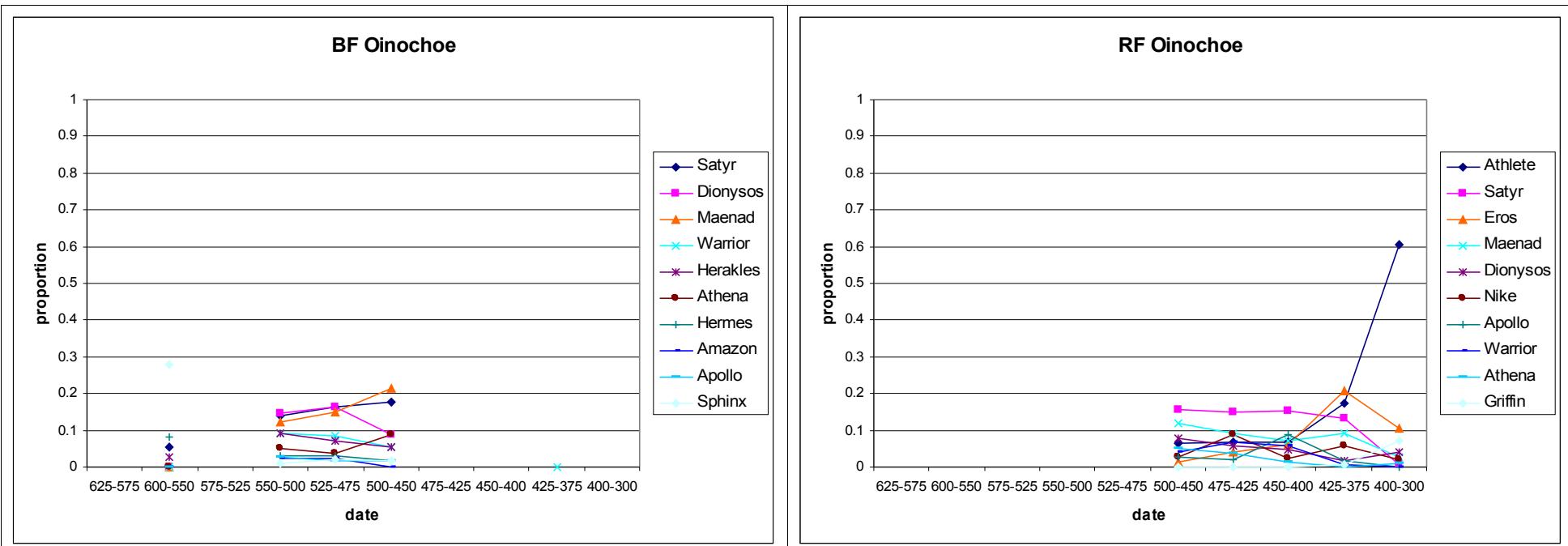
5.2 Red-figure cups. Proportion of top 10 motifs over time.

BF and RF Cups



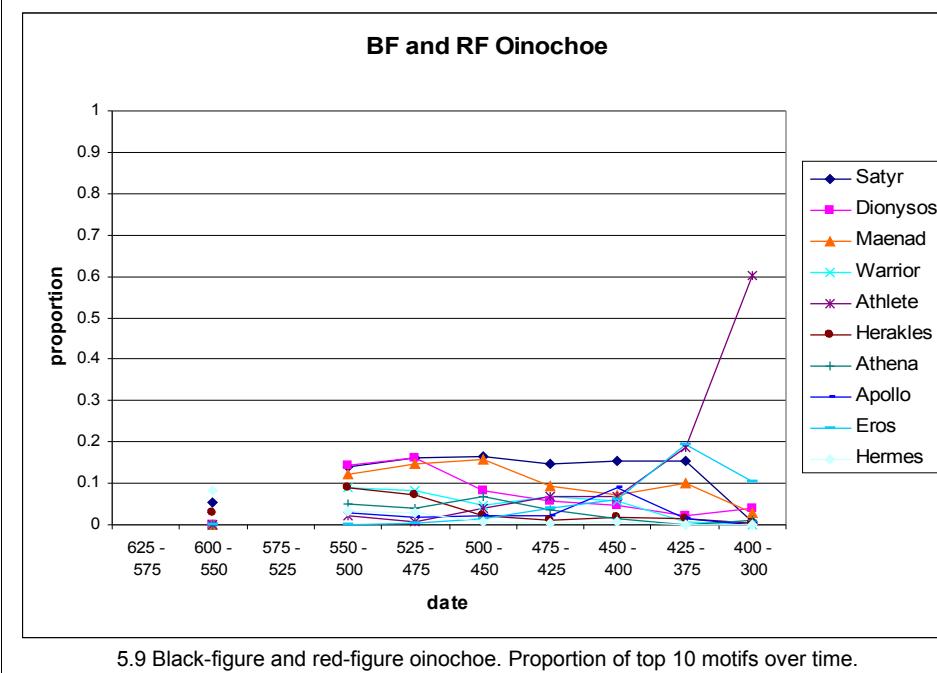
5.3 Black-figure and red-figure cups. Proportion of top 10 motifs over time.



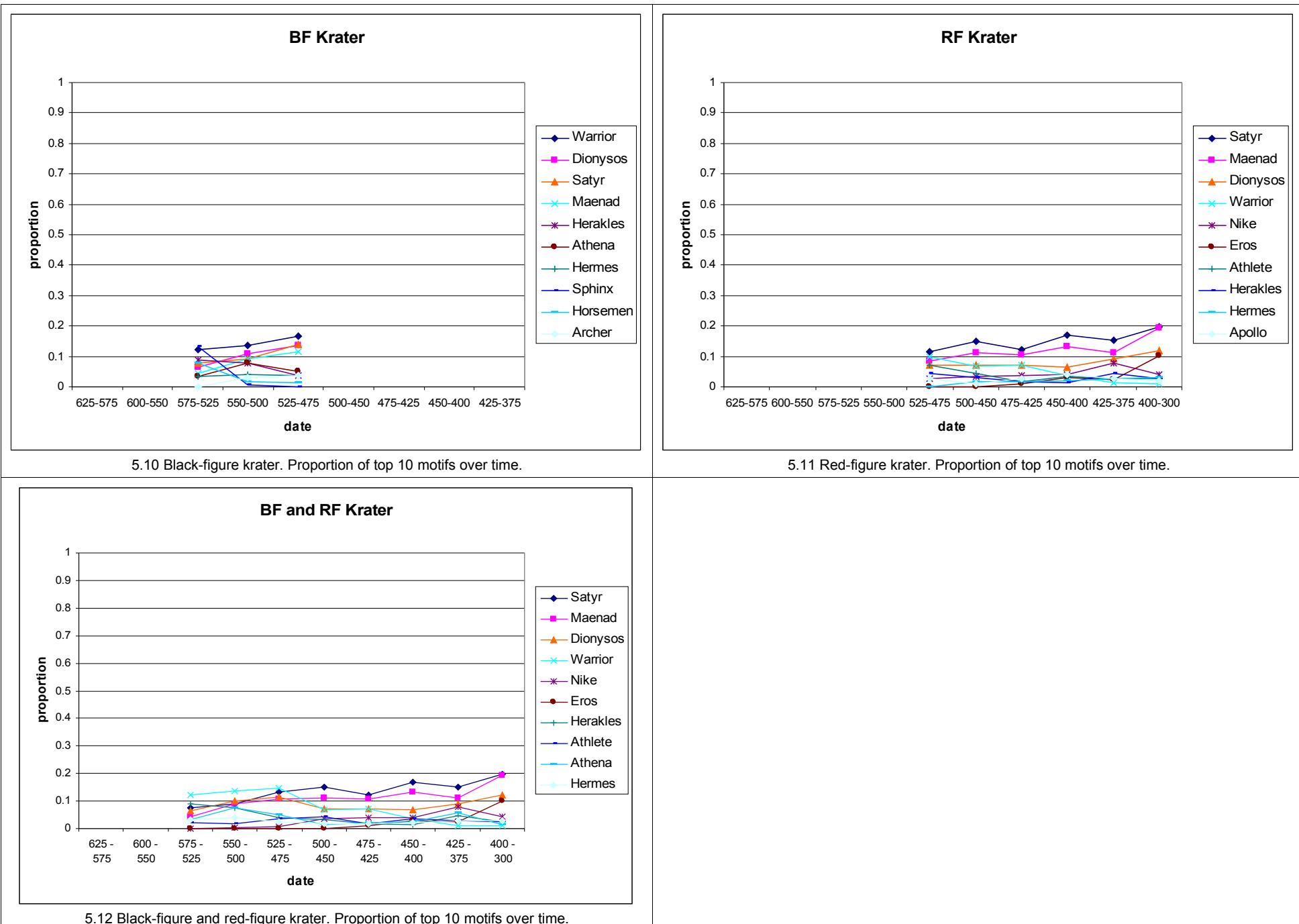


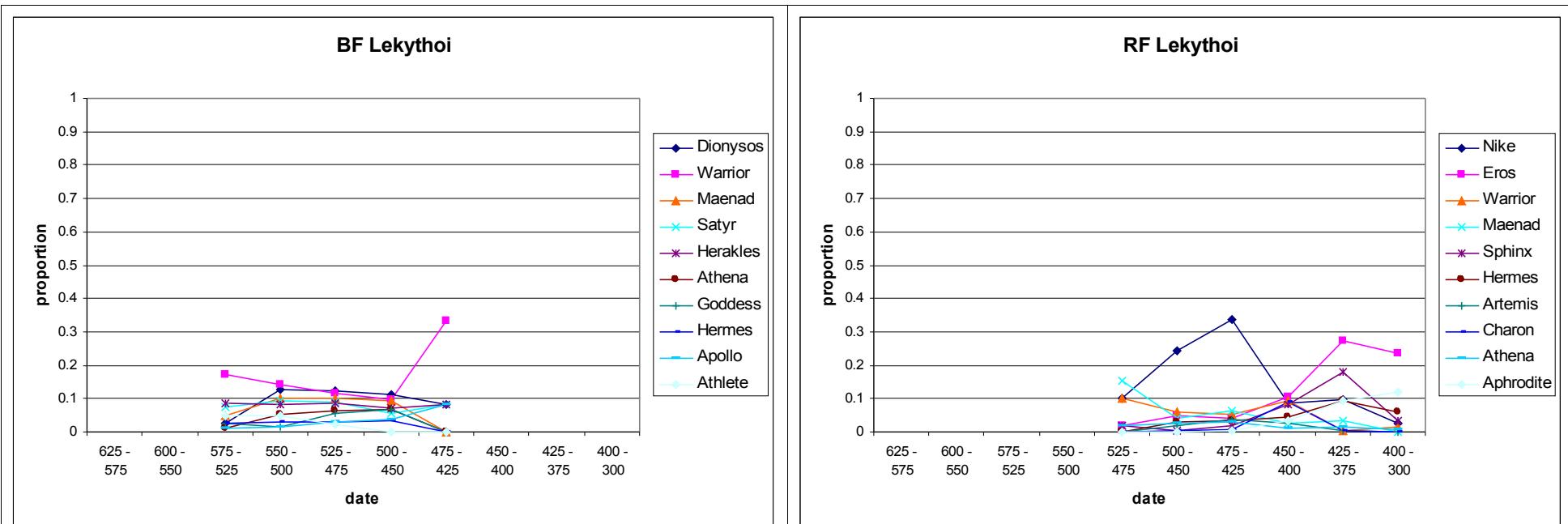
5.7 Black-figure oinochoe. Proportion of top 10 motifs over time.

5.8 Red-figure oinochoe. Proportion of top 10 motifs over time.



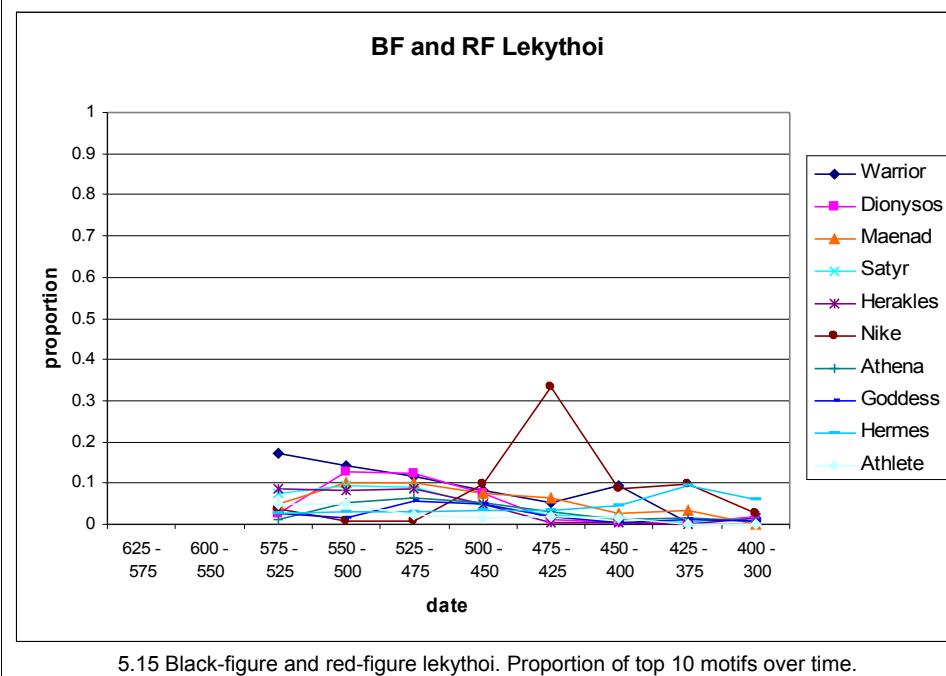
5.9 Black-figure and red-figure oinochoe. Proportion of top 10 motifs over time.

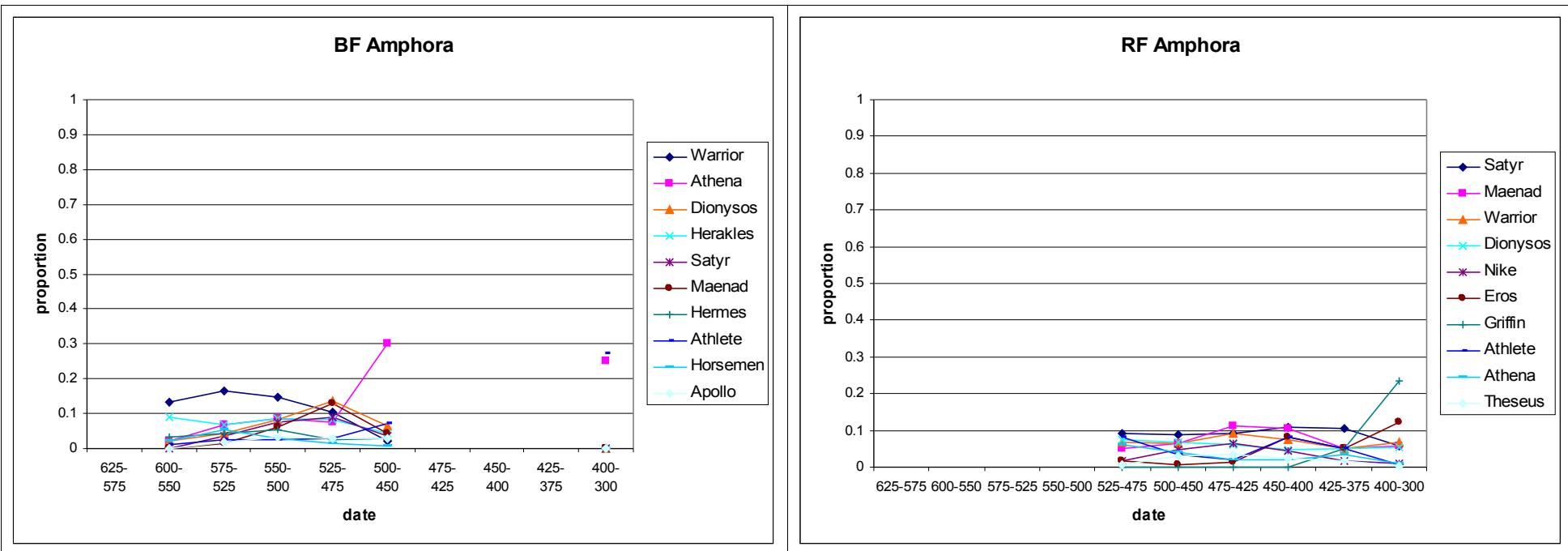




5.13 Black-figure lekythoi. Proportion of top 10 motifs over time.

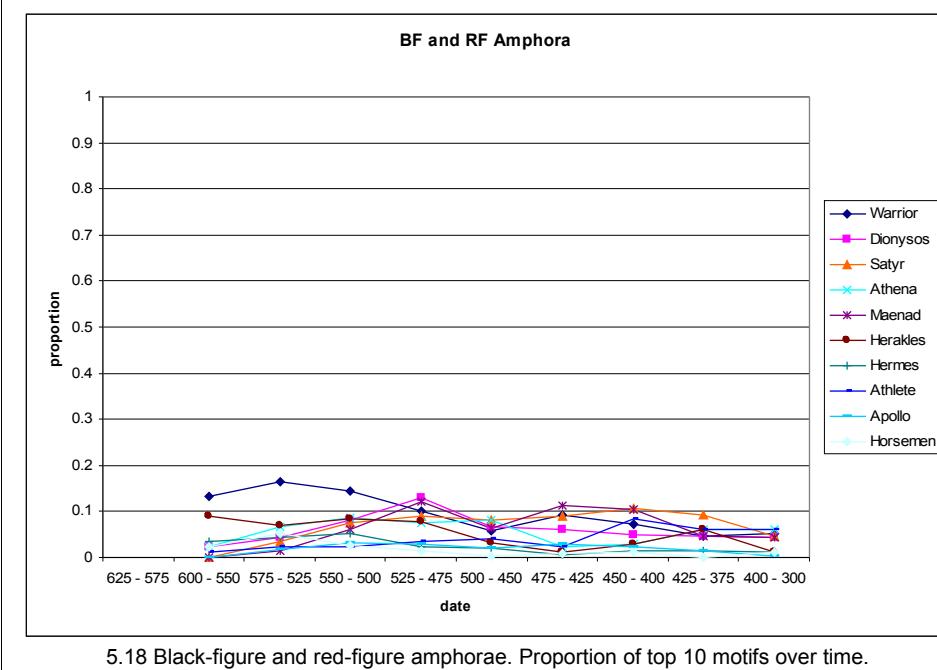
5.14 Red-figure lekythoi. Proportion of top 10 motifs over time.

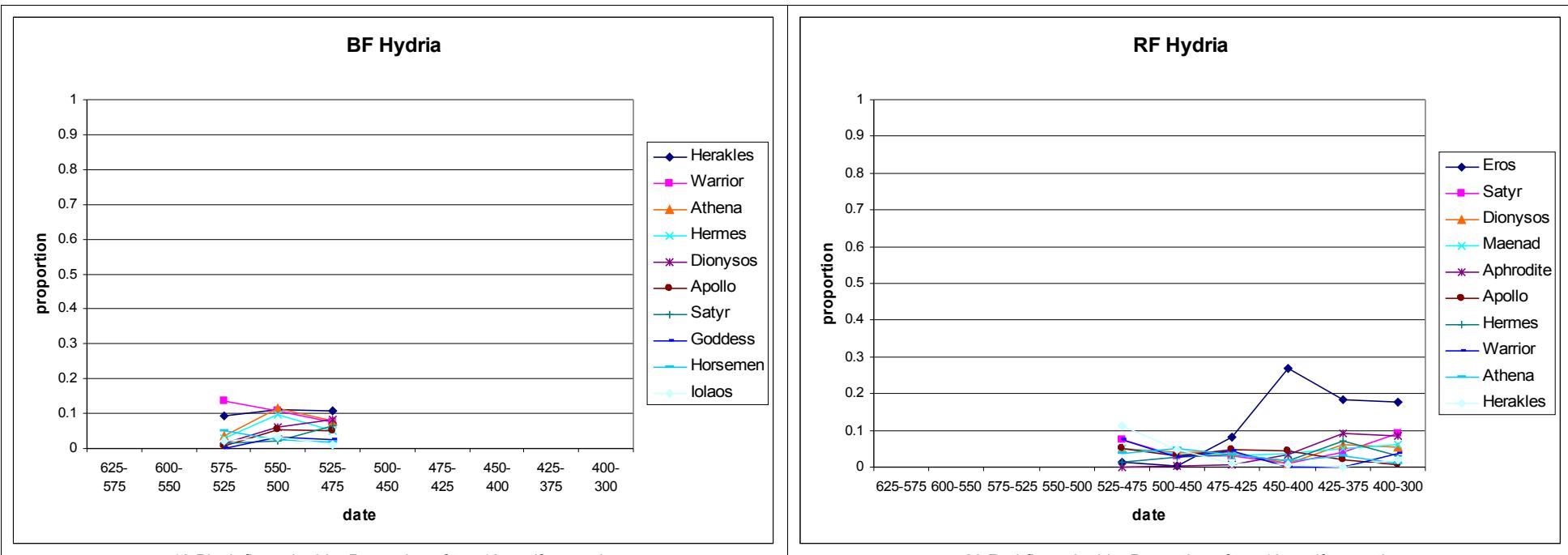


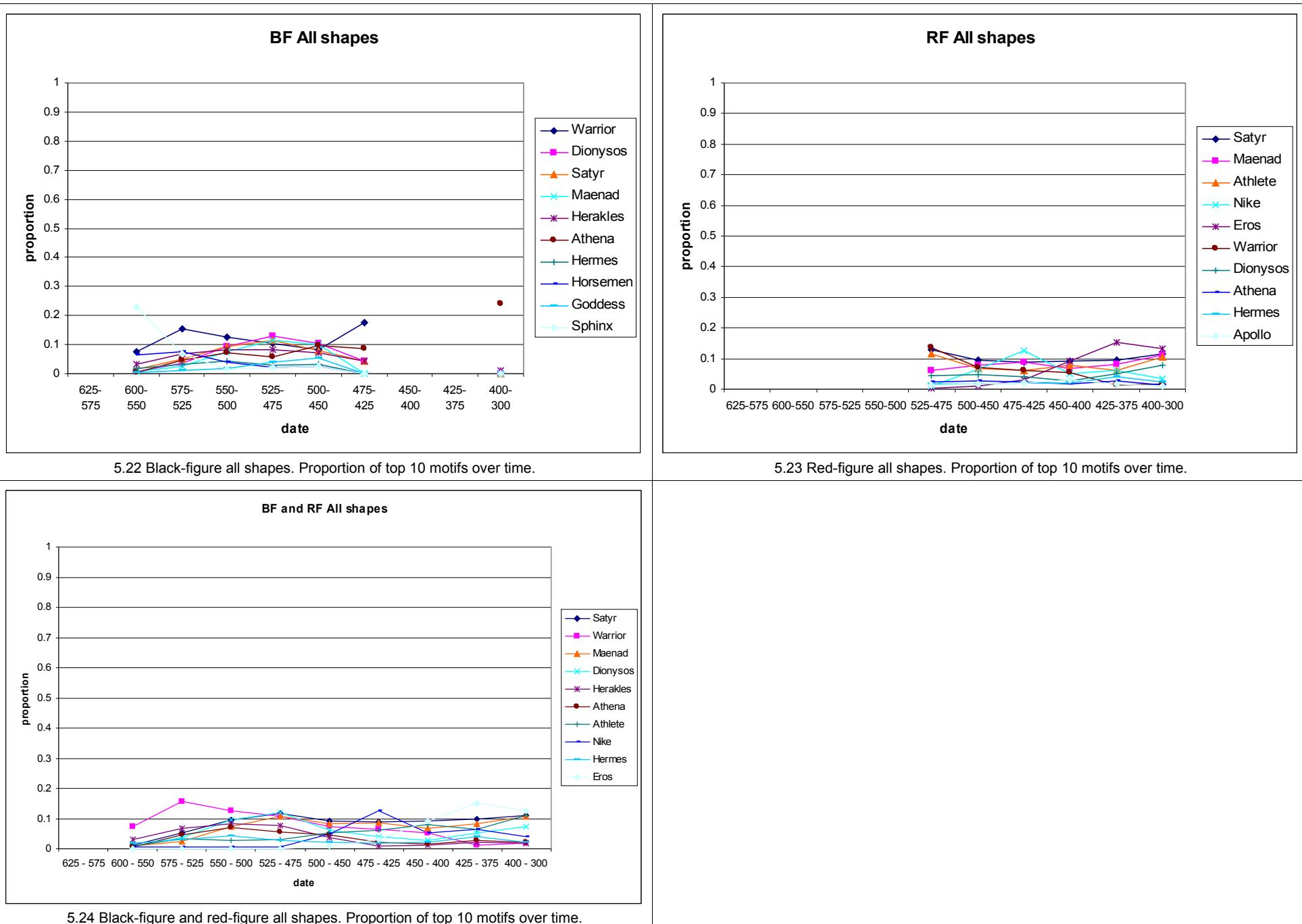


5.16 Black-figure amphorae. Proportion of top 10 motifs over time.

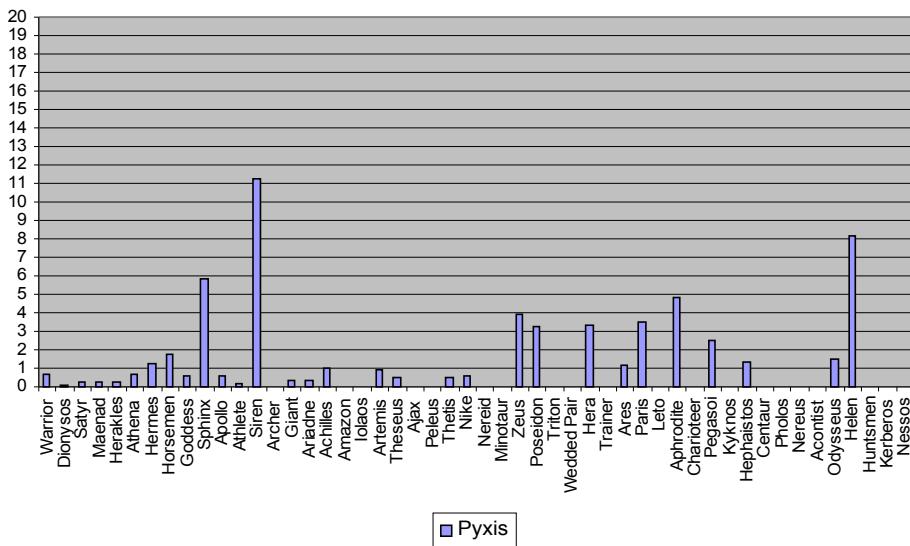
5.17 Red-figure amphorae. Proportion of top 10 motifs over time.





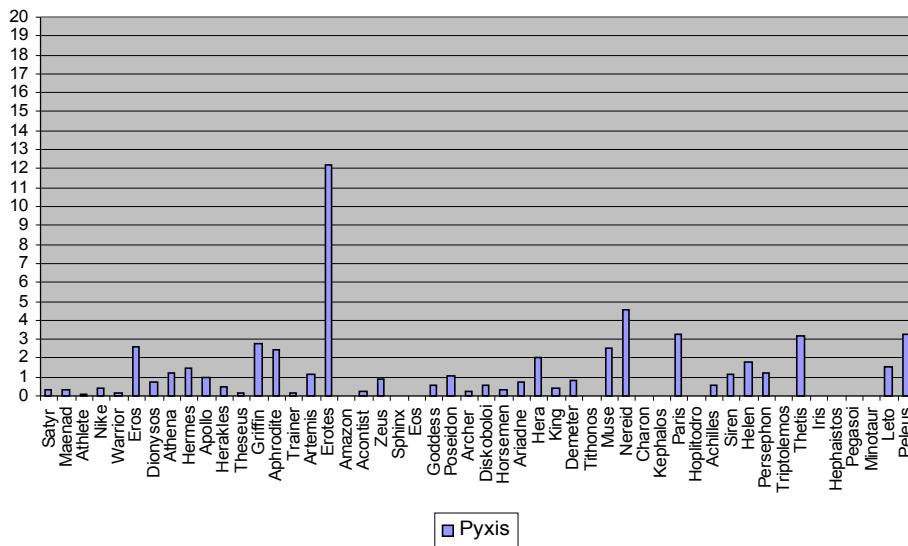


BF Pyxis



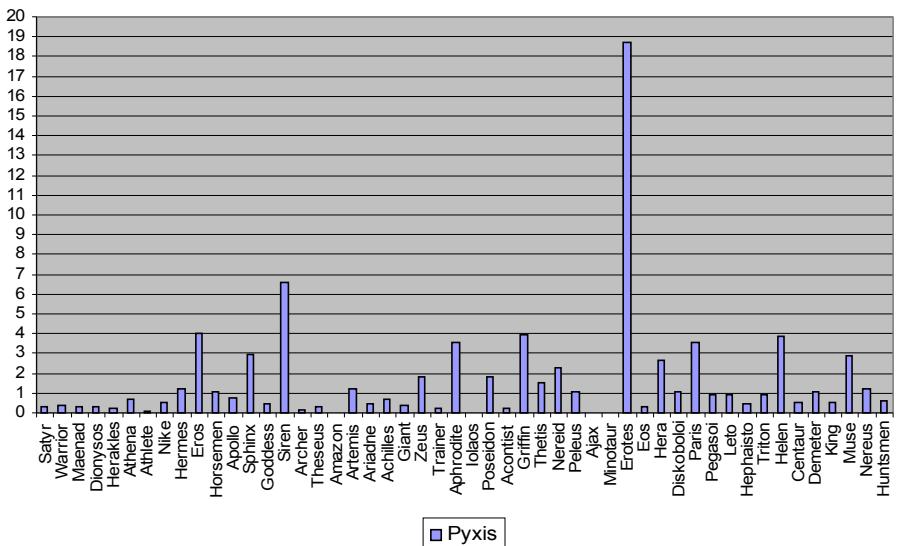
5.25 Black-figure pyxis: Proportion of top 50 motifs.

RF Pyxis

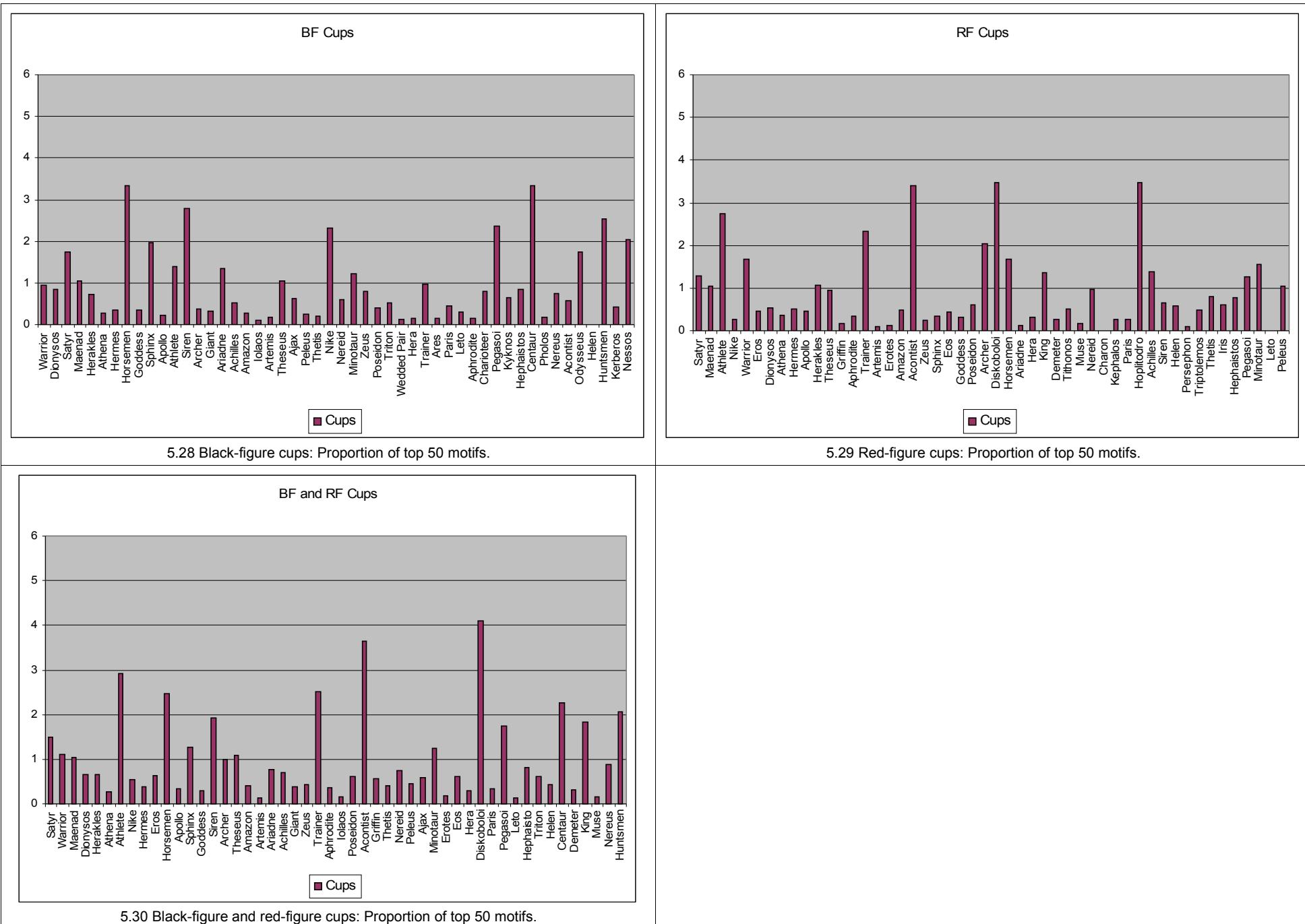


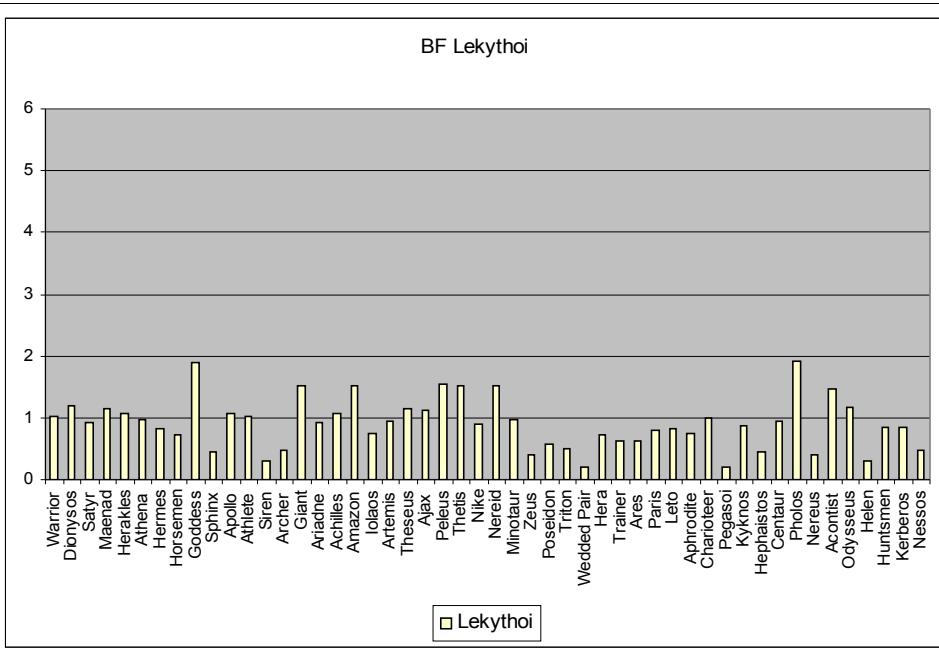
5.26 Red-figure pyxis: Proportion of top 50 motifs.

BF and RF Pyxis

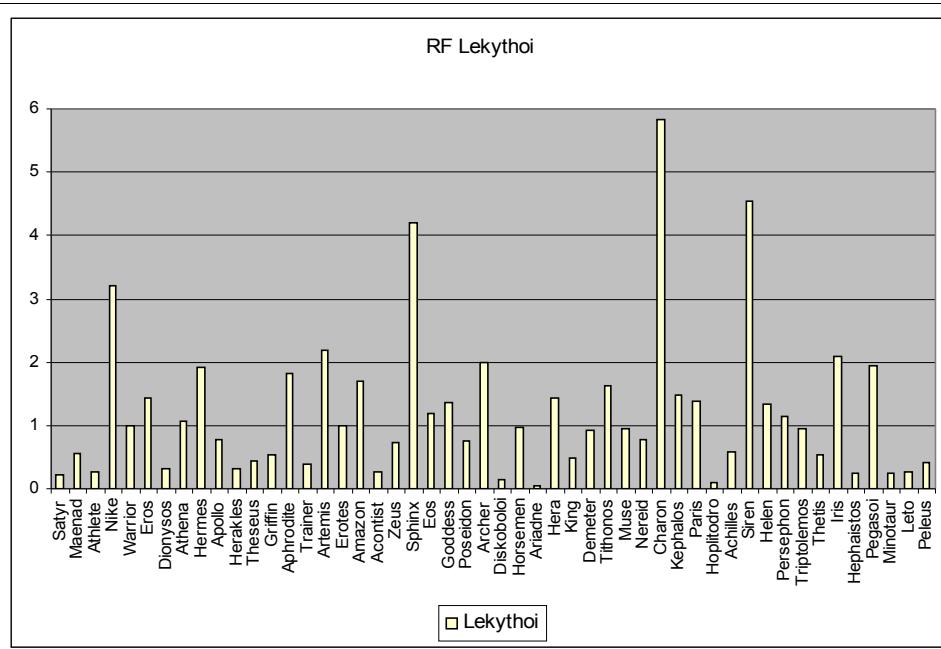


5.27 Black-figure and red-figure pyxises: Proportion of top 50 motifs.

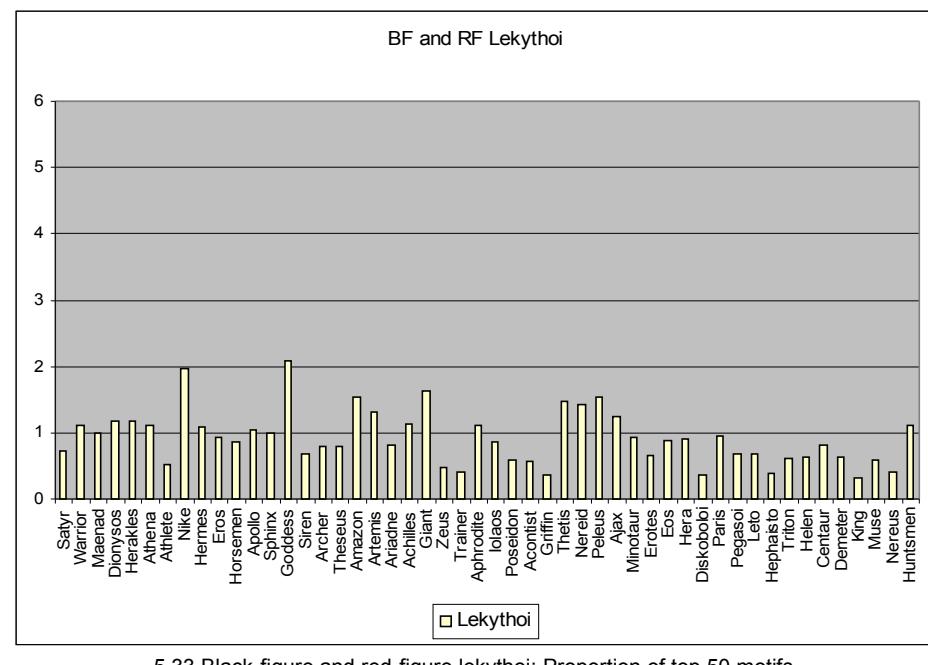




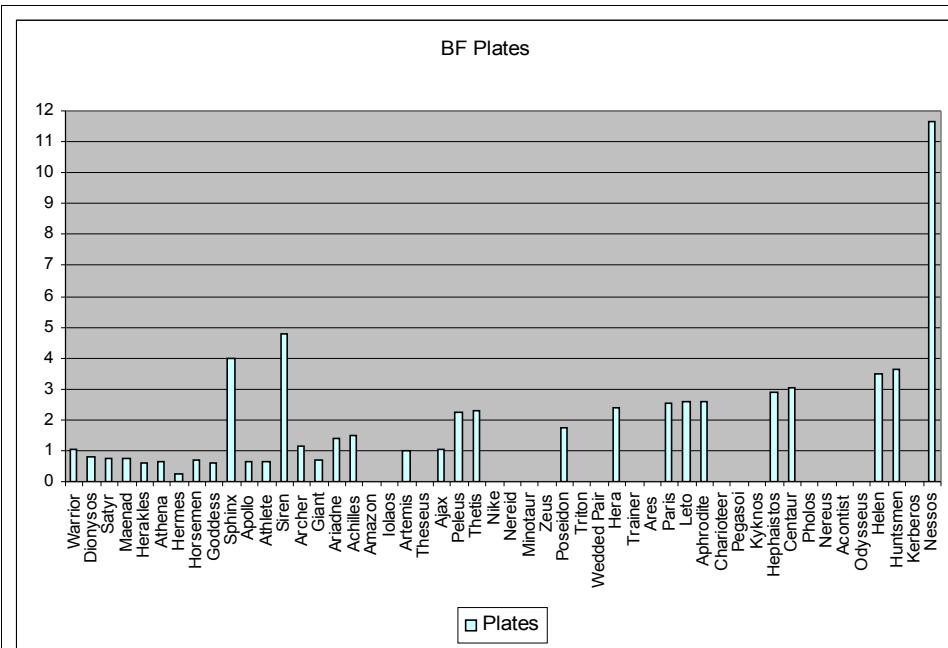
5.31 Black-figure lekythoi: Proportion of top 50 motifs.



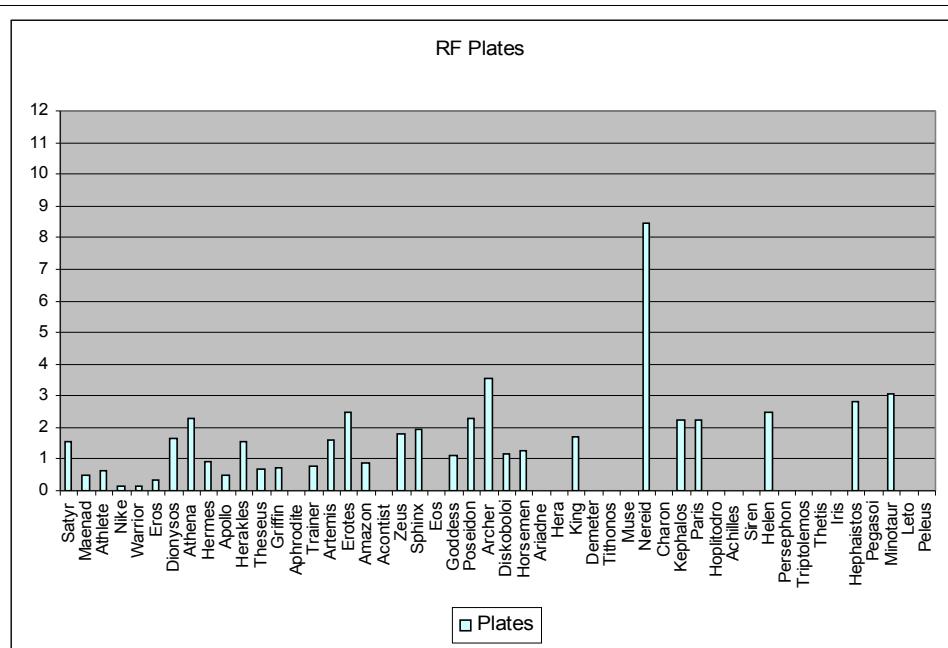
5.32 Red-figure lekythoi: Proportion of top 50 motifs.



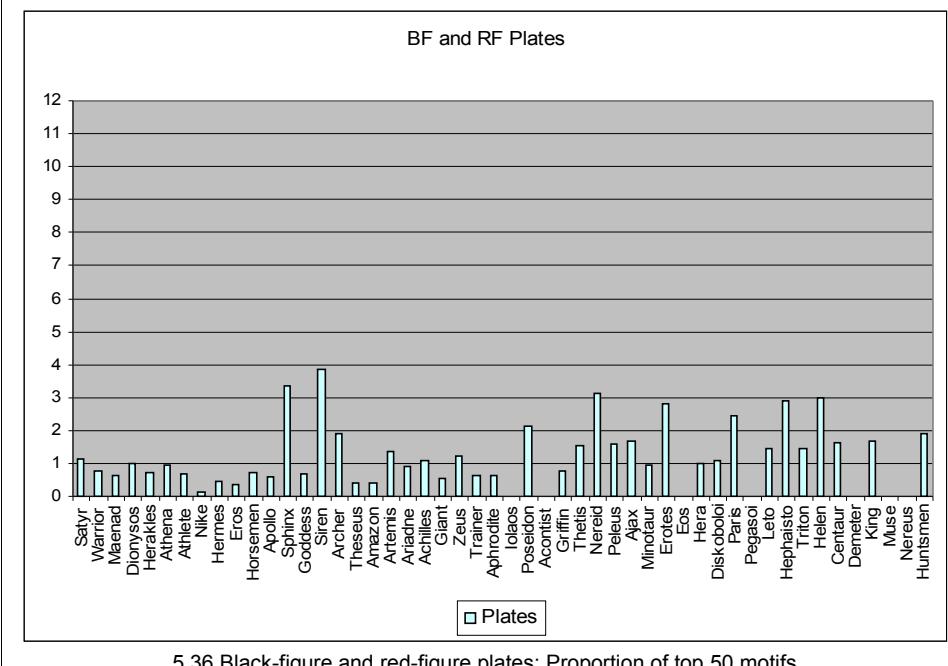
5.33 Black-figure and red-figure lekythoi: Proportion of top 50 motifs.



5.34 Black-figure plates: Proportion of top 50 motifs.

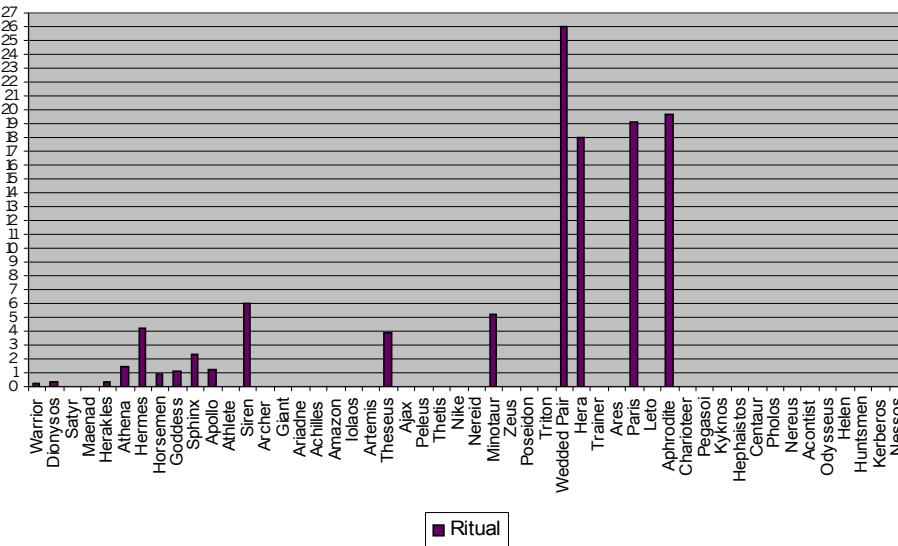


5.35 Red-figure plates: Proportion of top 50 motifs.



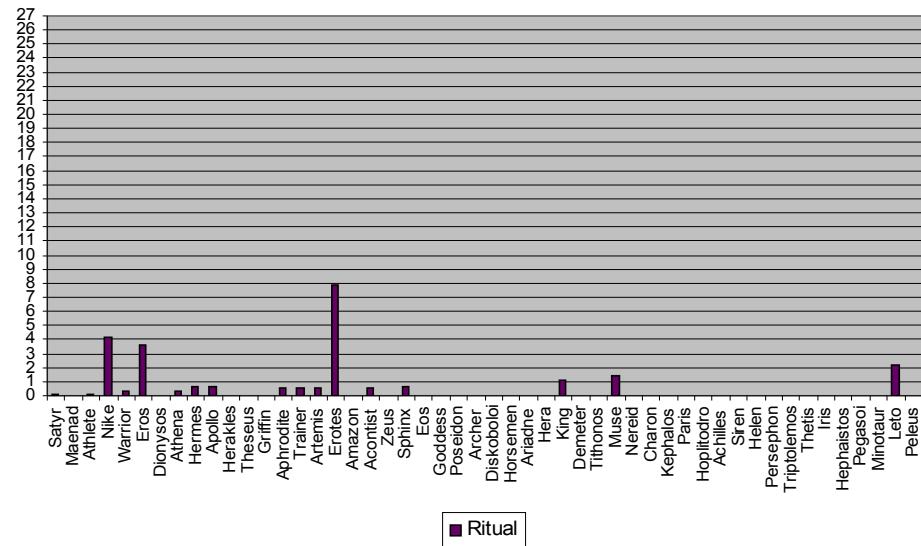
5.36 Black-figure and red-figure plates: Proportion of top 50 motifs.

BF Ritual



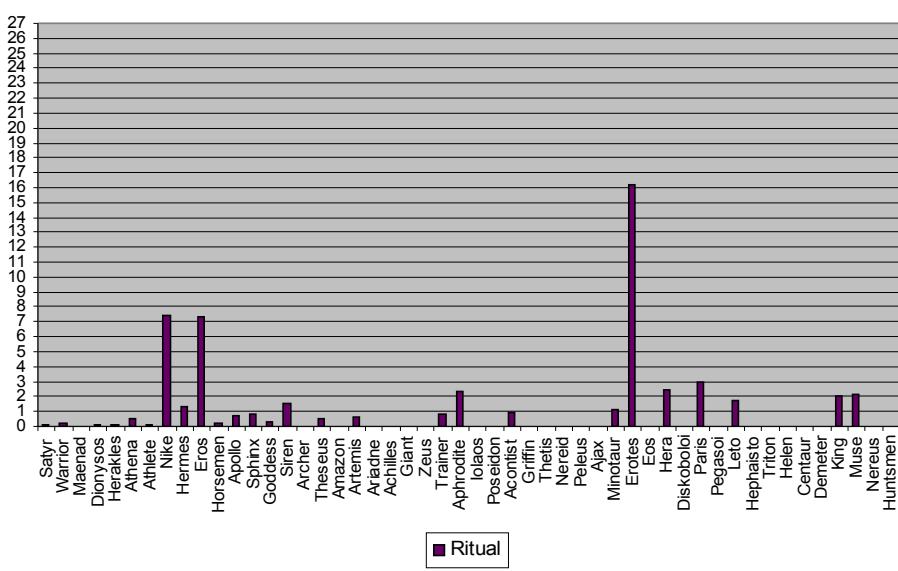
5.37 Black-figure ritual: Proportion of top 50 motifs.

RF Ritual

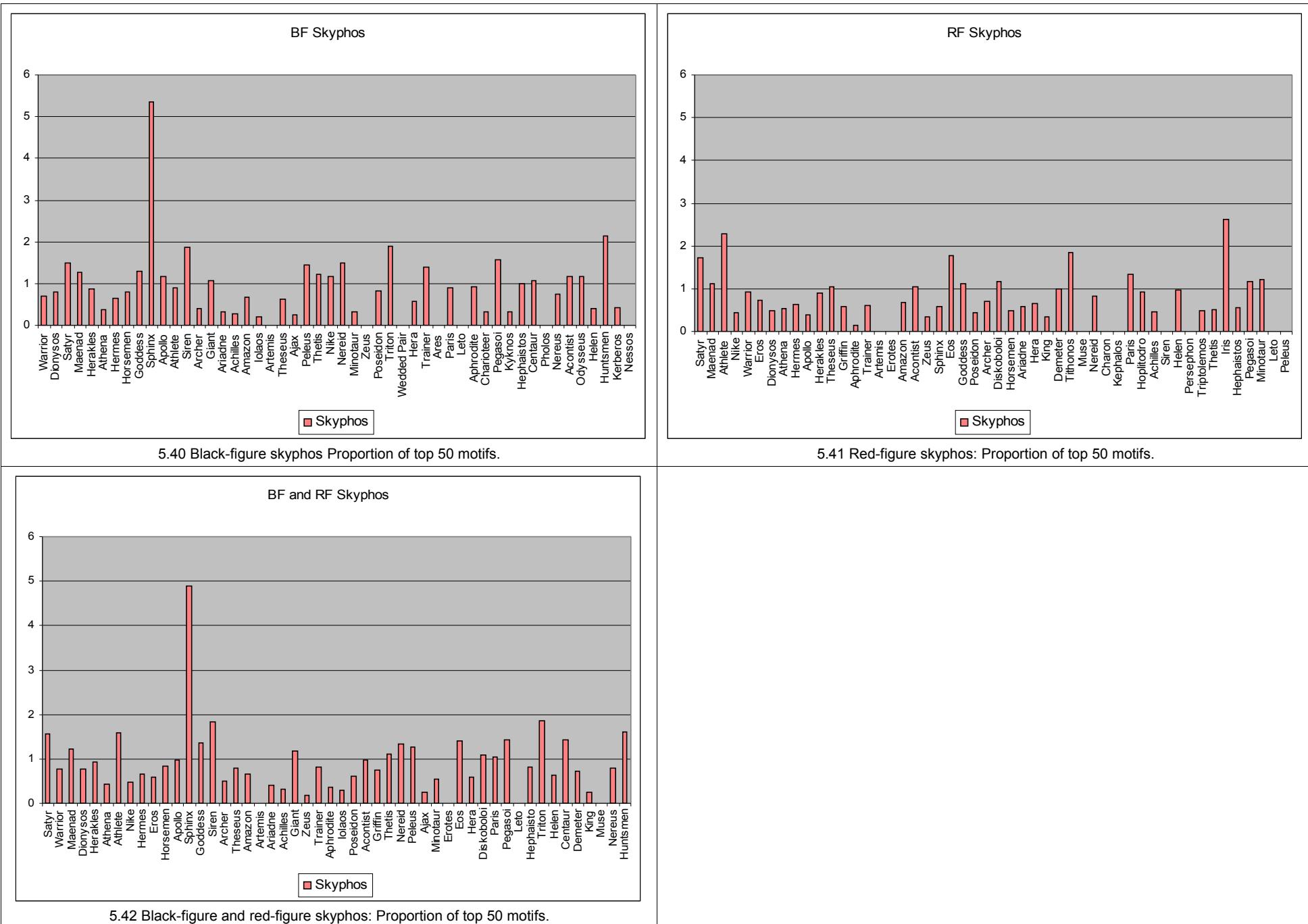


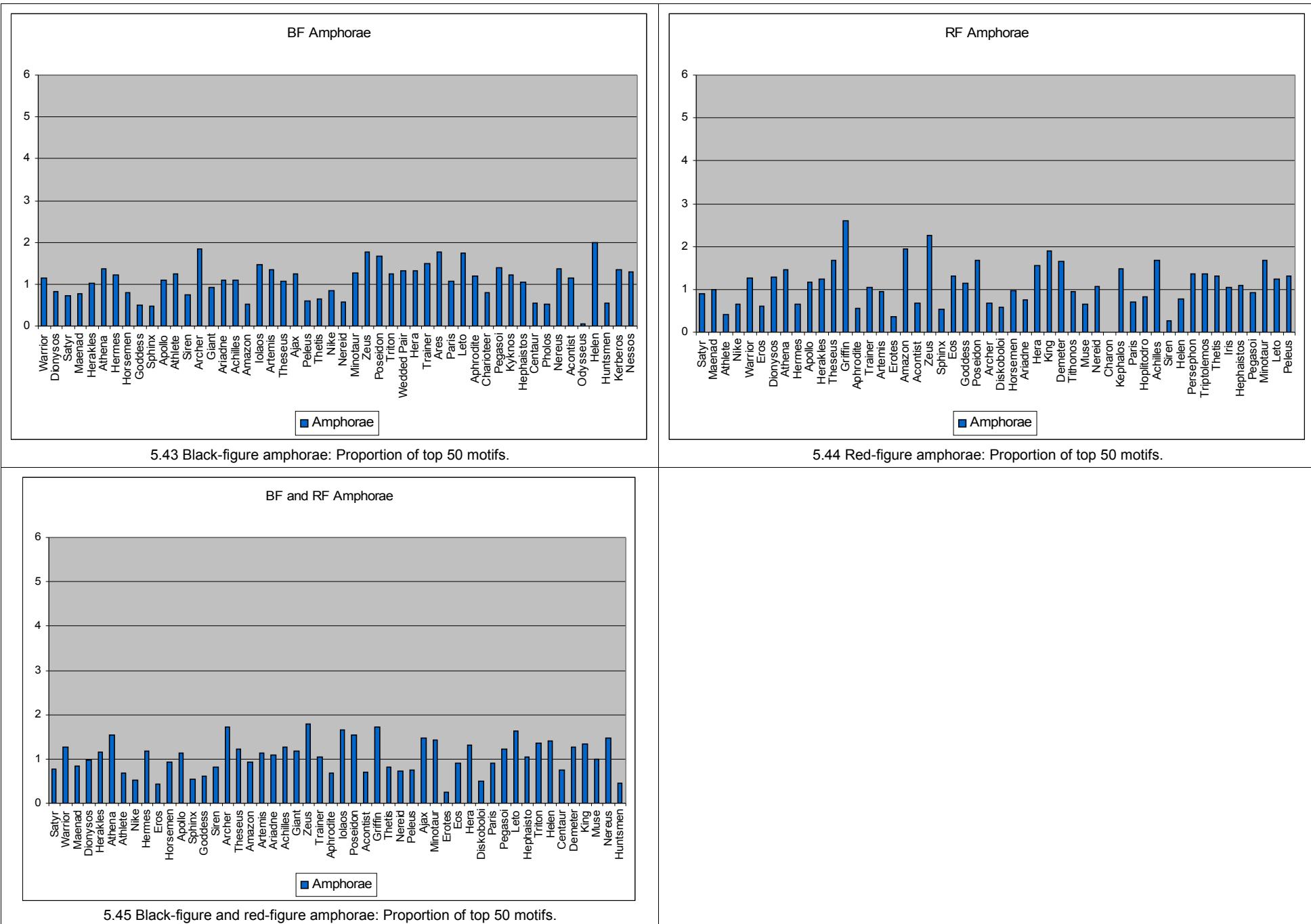
5.38 Red-figure ritual: Proportion of top 50 motifs.

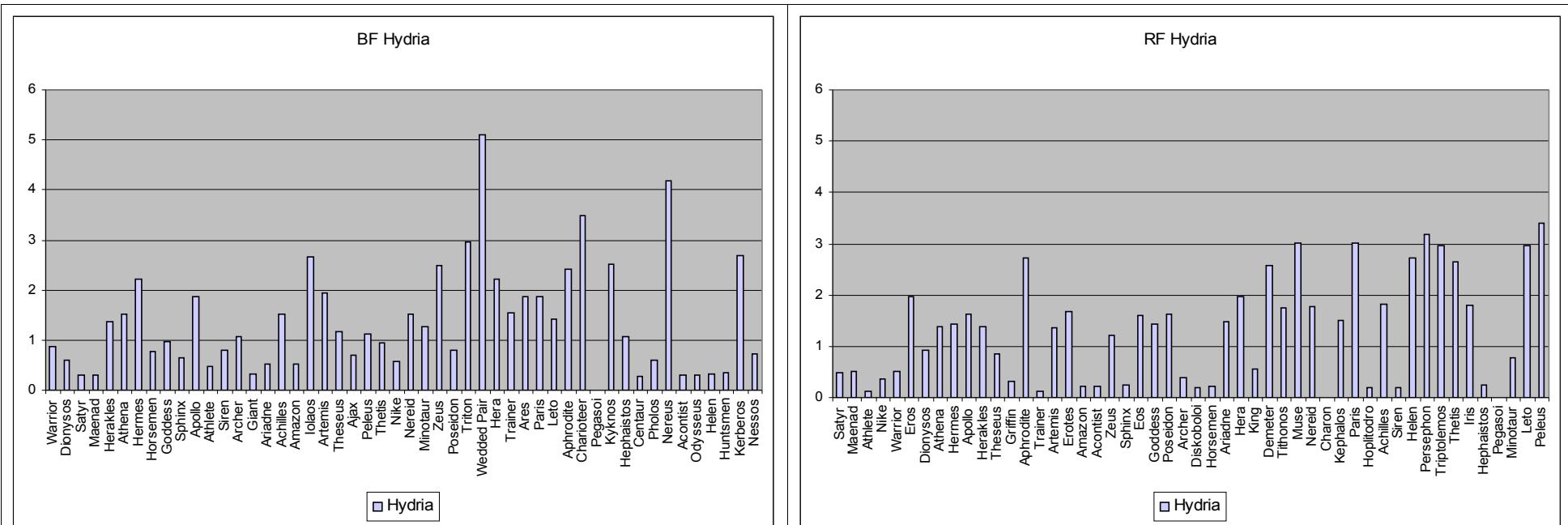
BF and RF Ritual



5.39 Black-figure and red-figure ritual: Proportion of top 50 motifs.

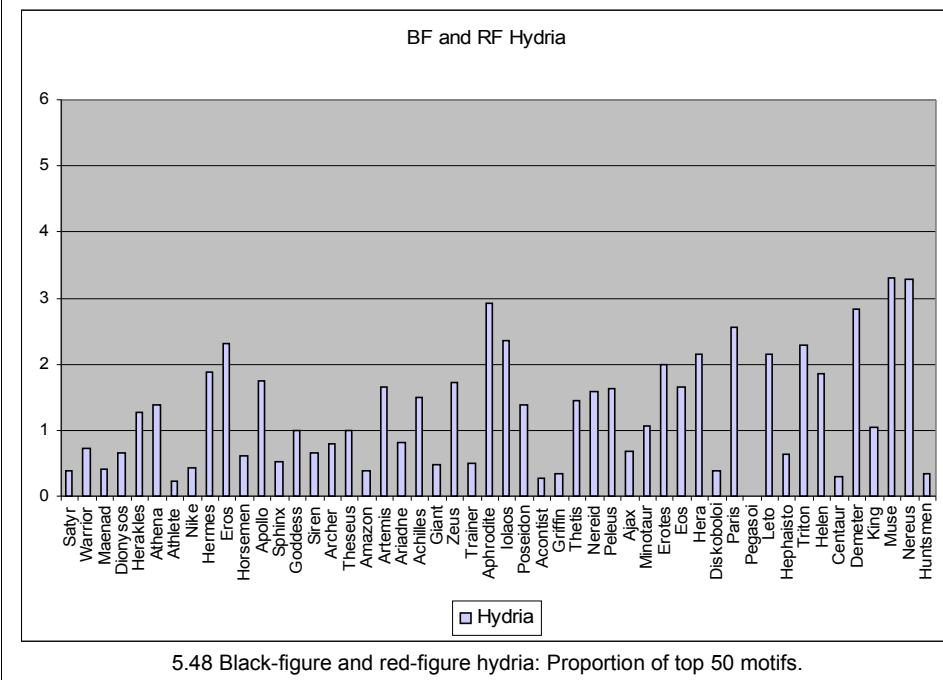




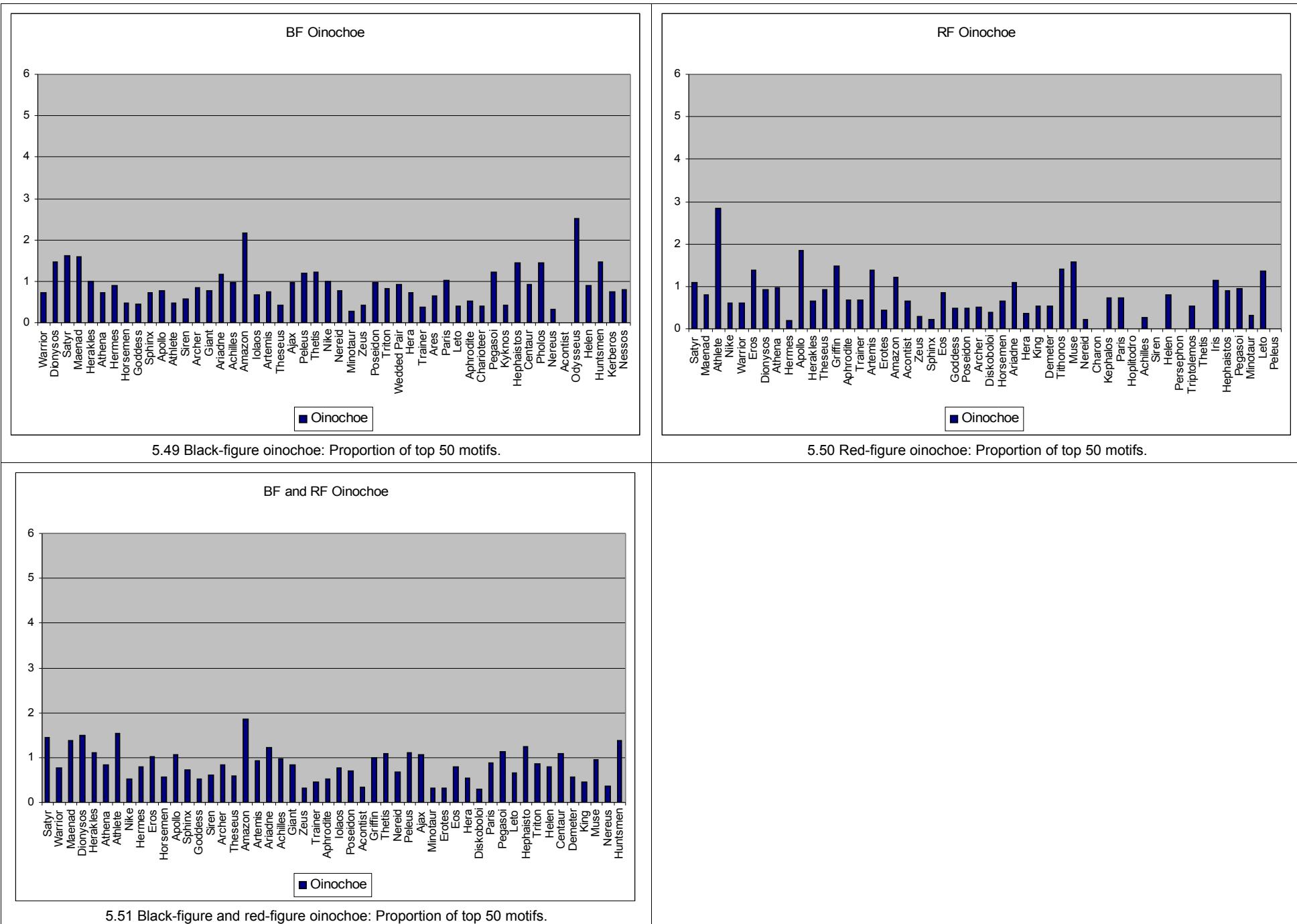


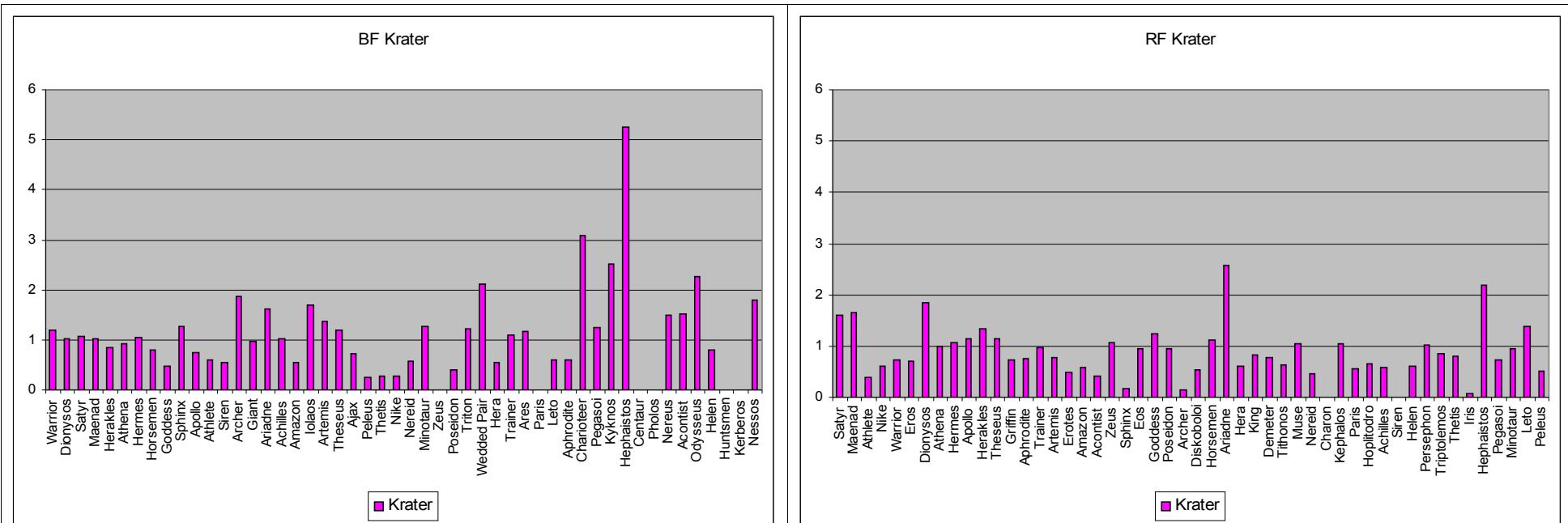
5.46 Black-figure hydria: Proportion of top 50 motifs.

5.47 Red-figure hydria: Proportion of top 50 motifs.



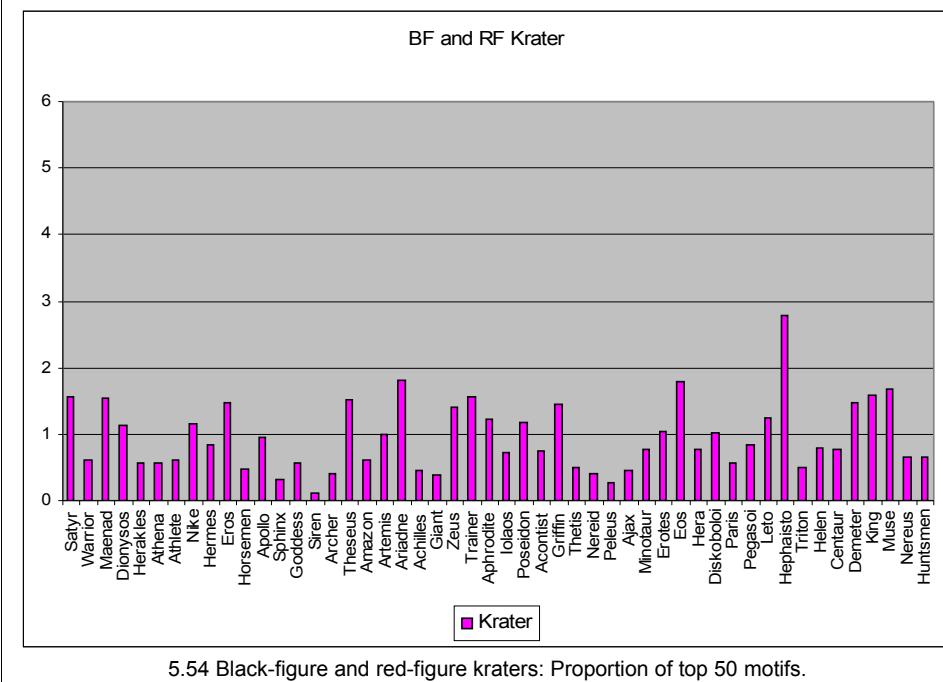
5.48 Black-figure and red-figure hydria: Proportion of top 50 motifs.



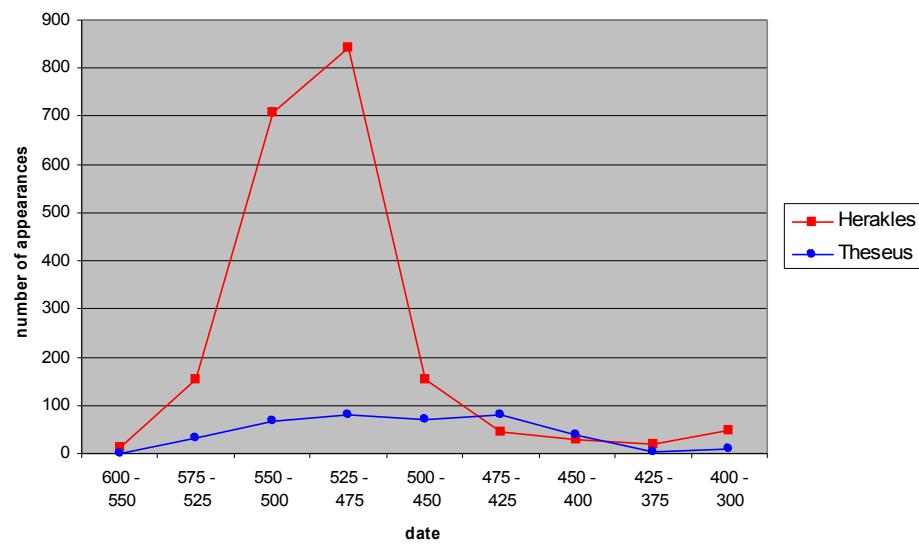


5.52 Black-figure kraters: Proportion of top 50 motifs.

5.53 Red-figure kraters: Proportion of top 50 motifs.

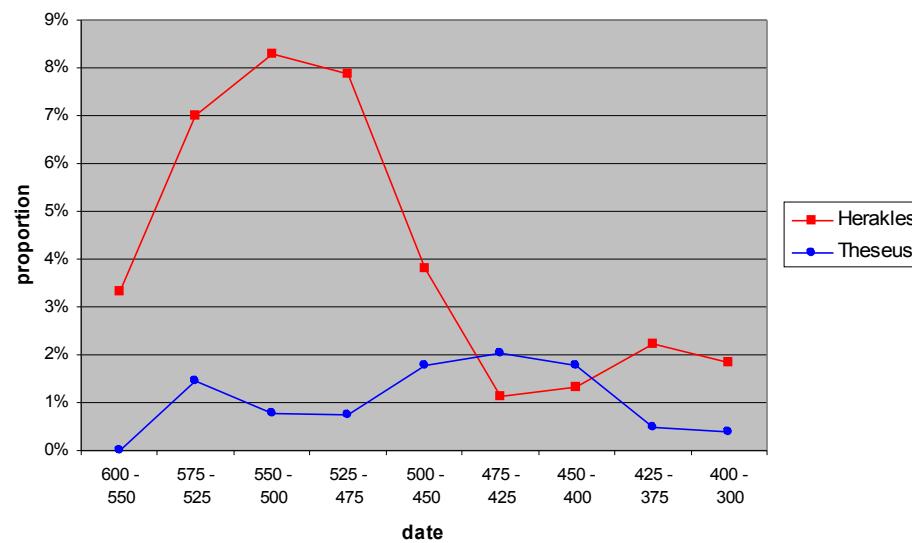


Herakles vs. Theseus: number of appearances



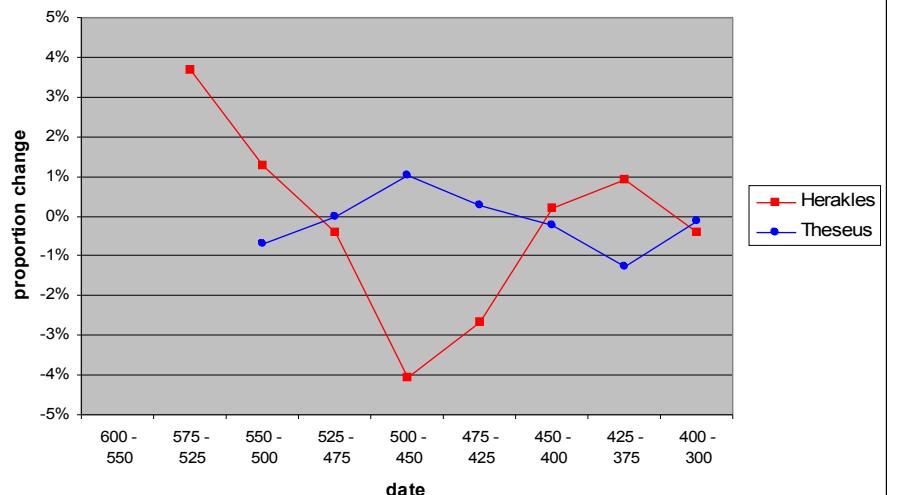
5.55. Herakles vs. Theseus, comparison of actual observations in the database.

Herakles vs. Theseus: proportions

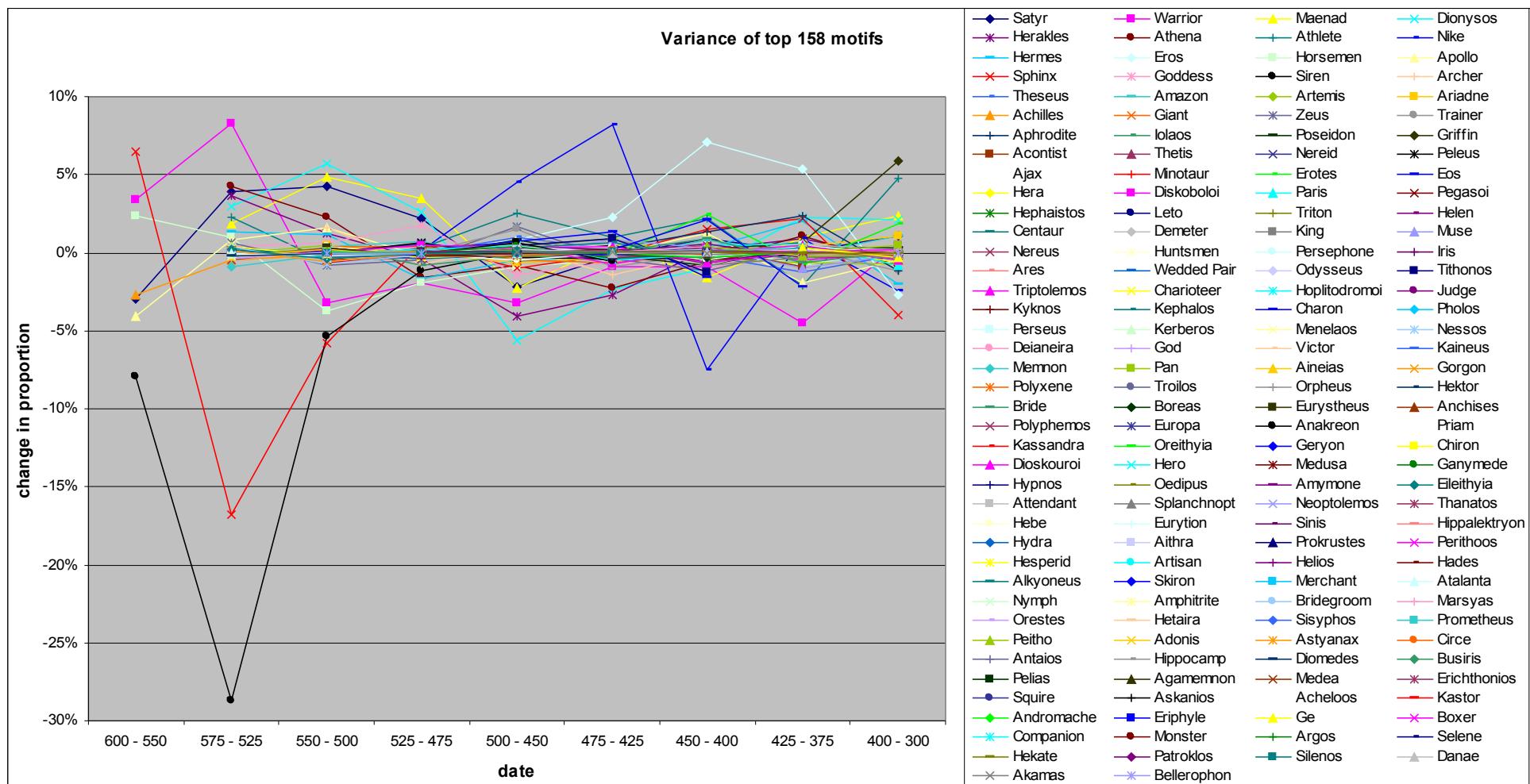


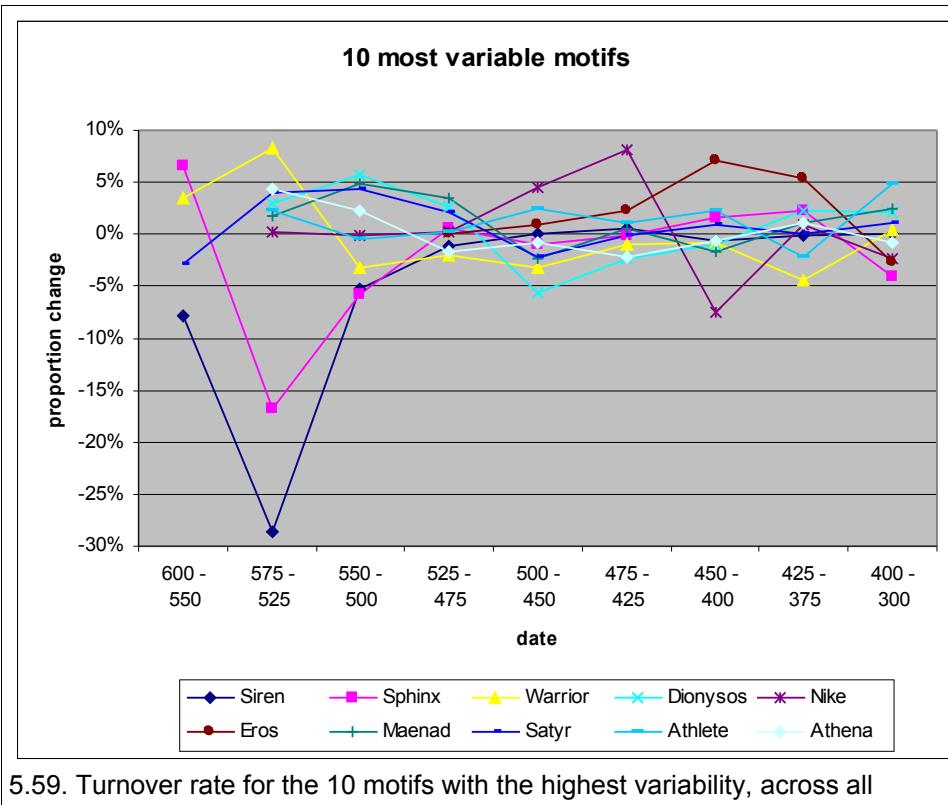
5.56. Herakles vs. Theseus, comparison of proportions of all motifs for each period.

Herakles vs. Theseus: proportion change

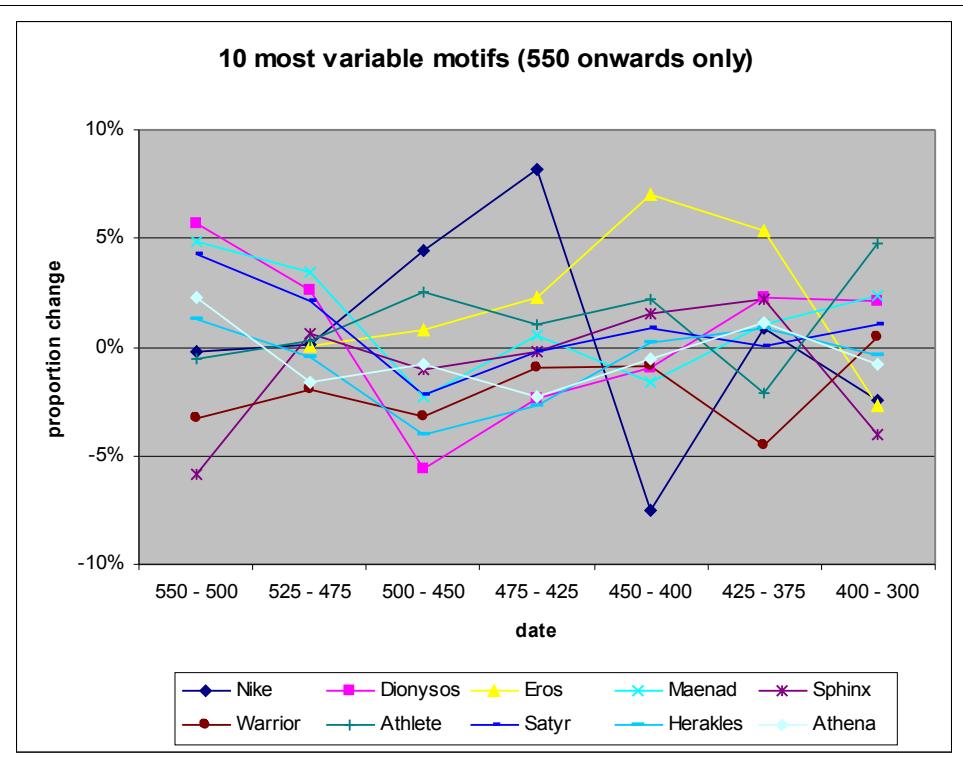


5.57. Herakles vs. Theseus, comparison of change in proportion.

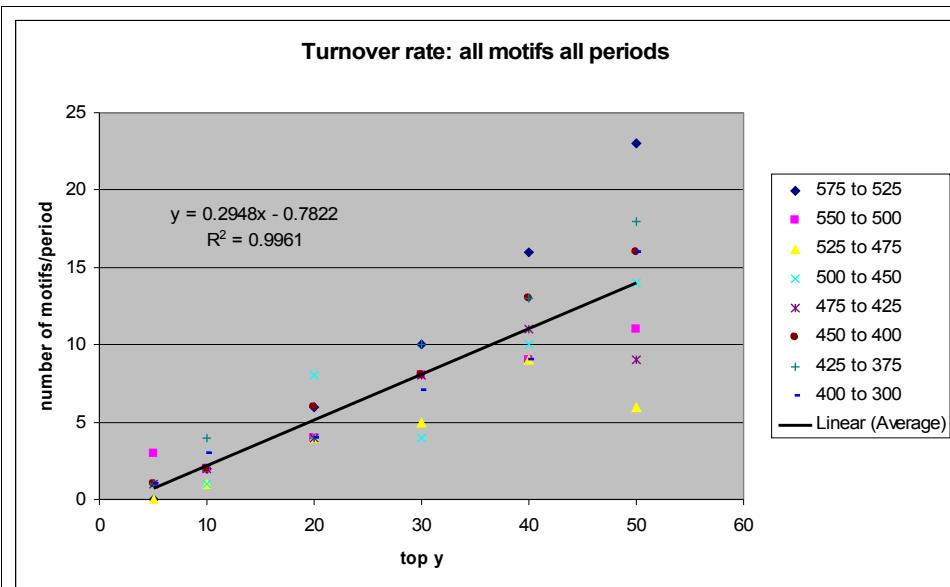




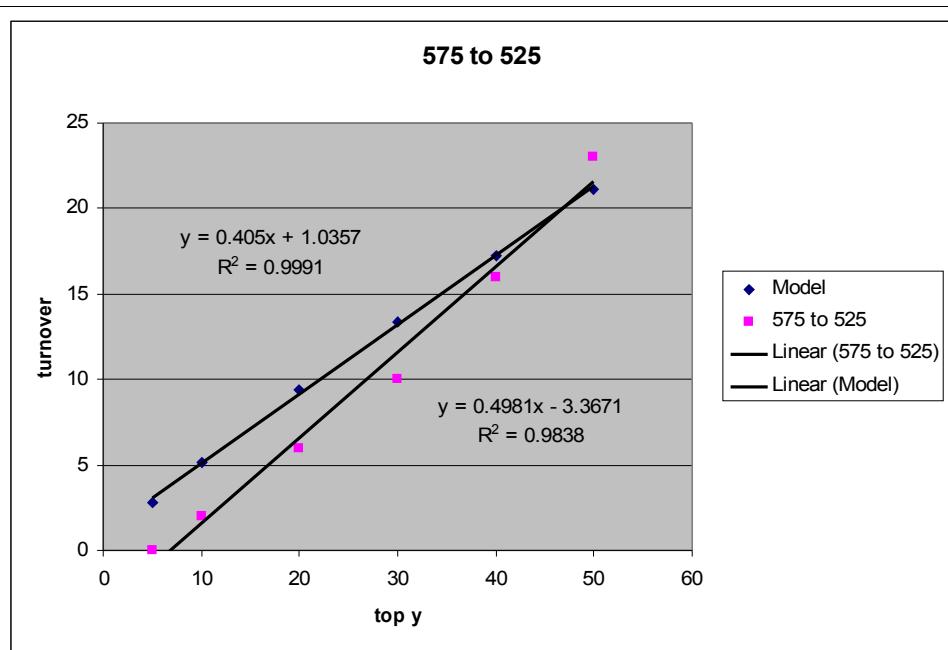
5.59. Turnover rate for the 10 motifs with the highest variability, across all shapes and techniques.



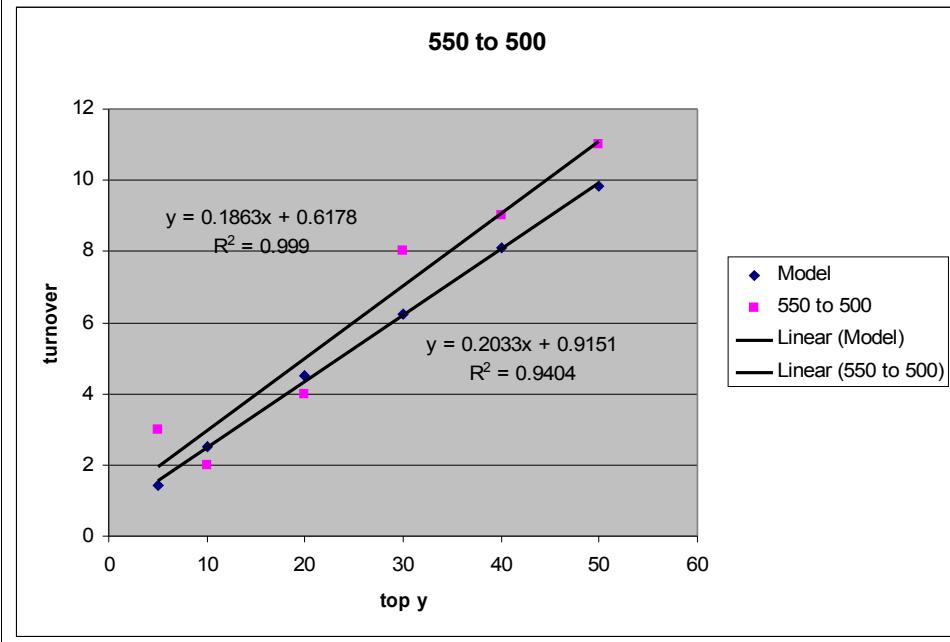
5.60. Turnover rate for the 10 motifs with the highest variability, across all shapes and techniques (showing 550 – 500 onwards only).



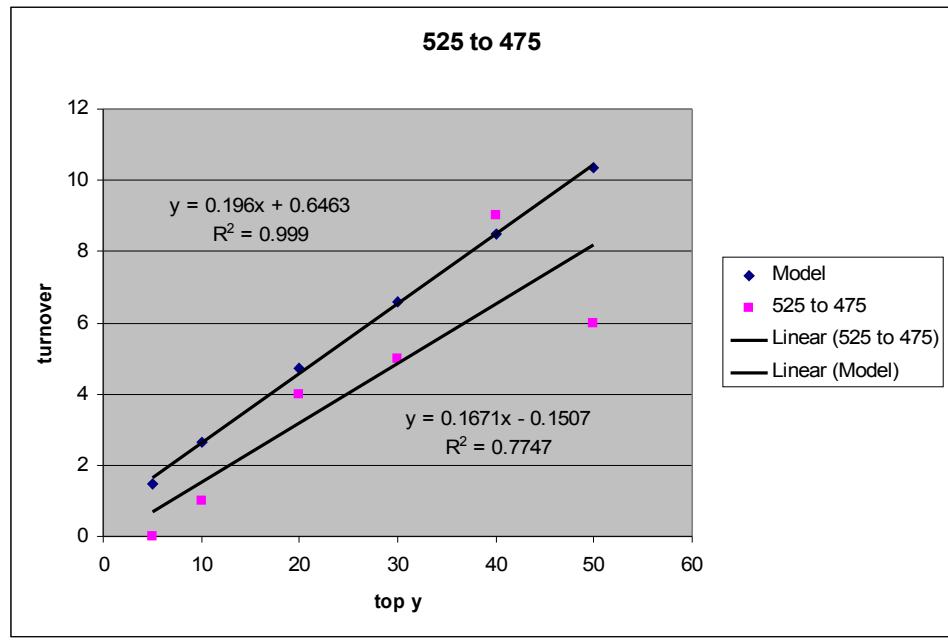
5.61. Turnover rate for motifs by top y, all shapes, all techniques.



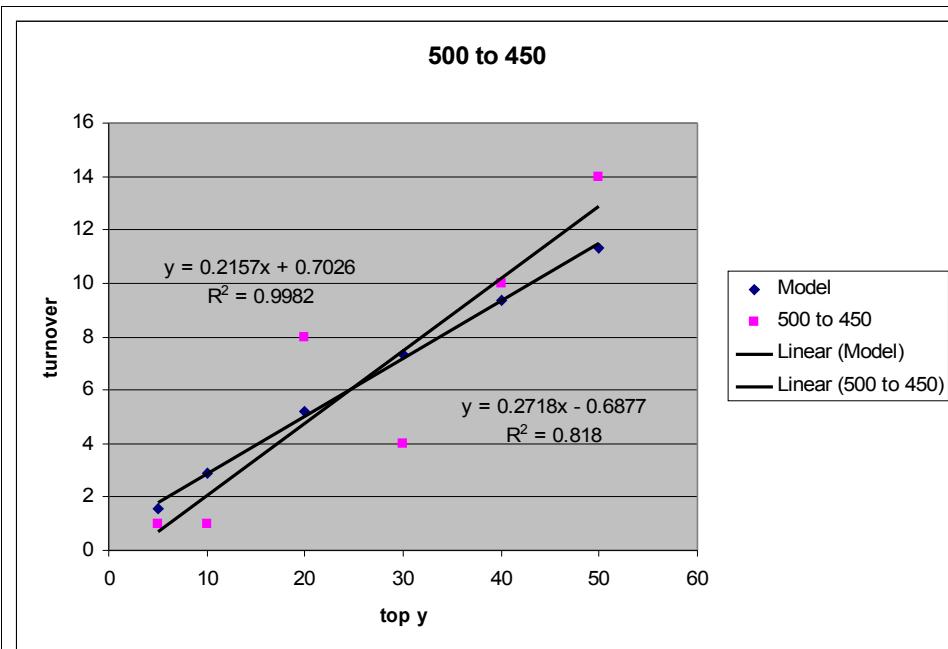
5.62. Turnover rate of model vs. data, 575 to 525, all shapes, all techniques.



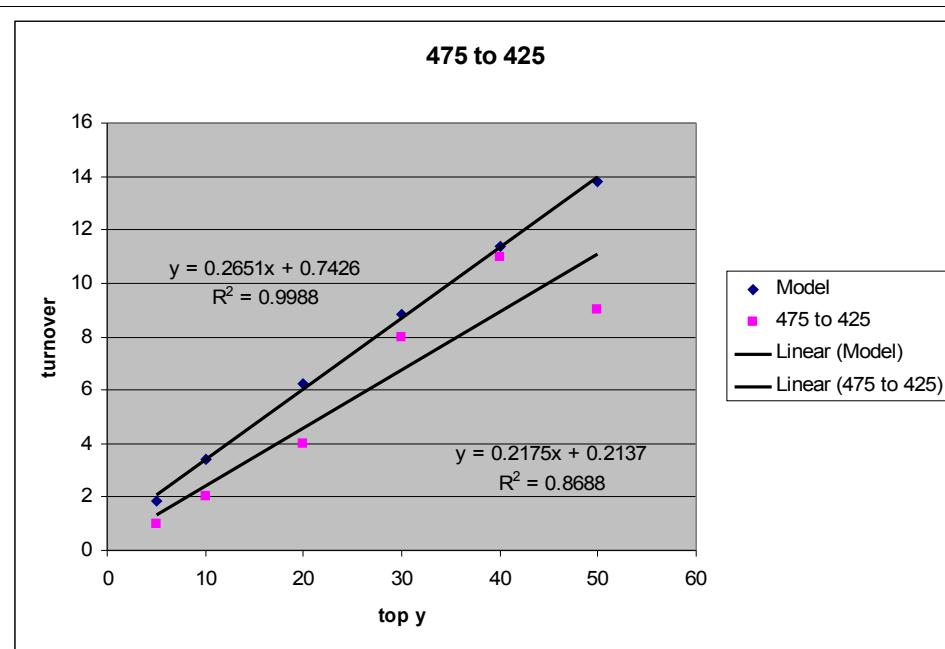
5.63. Turnover rate of model vs. data, 550 to 500, all shapes, all techniques.



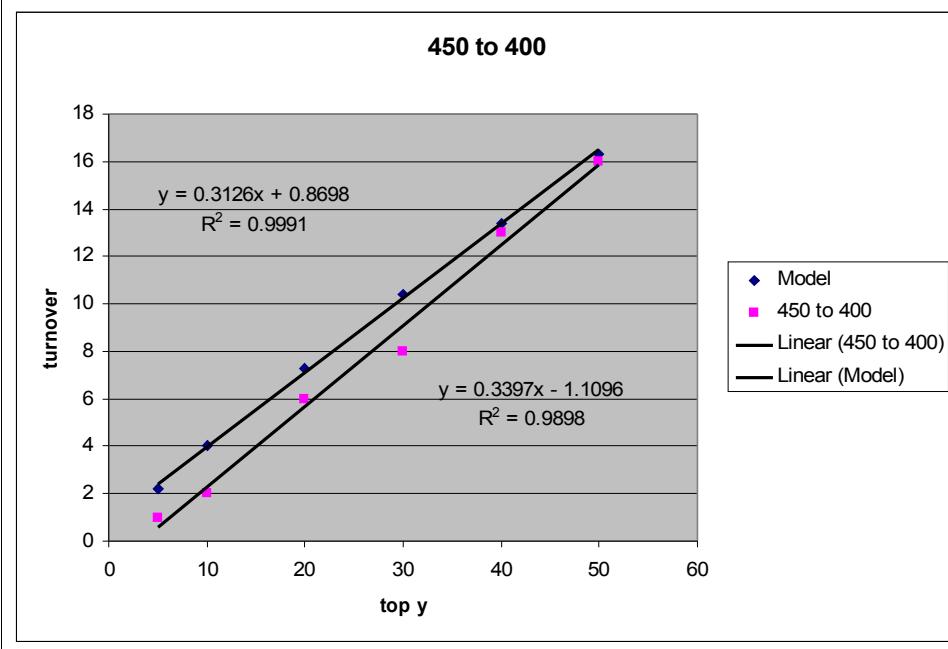
5.64. Turnover rate of model vs. data, 525 to 475, all shapes, all techniques.



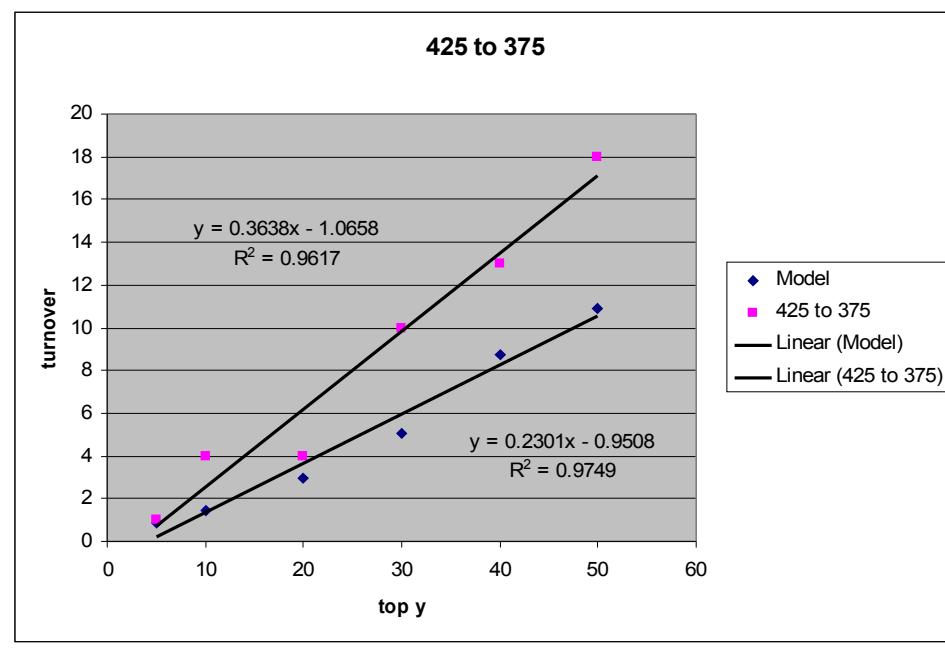
5.65. Turnover rate of model vs. data, 500 to 450, all shapes, all techniques.



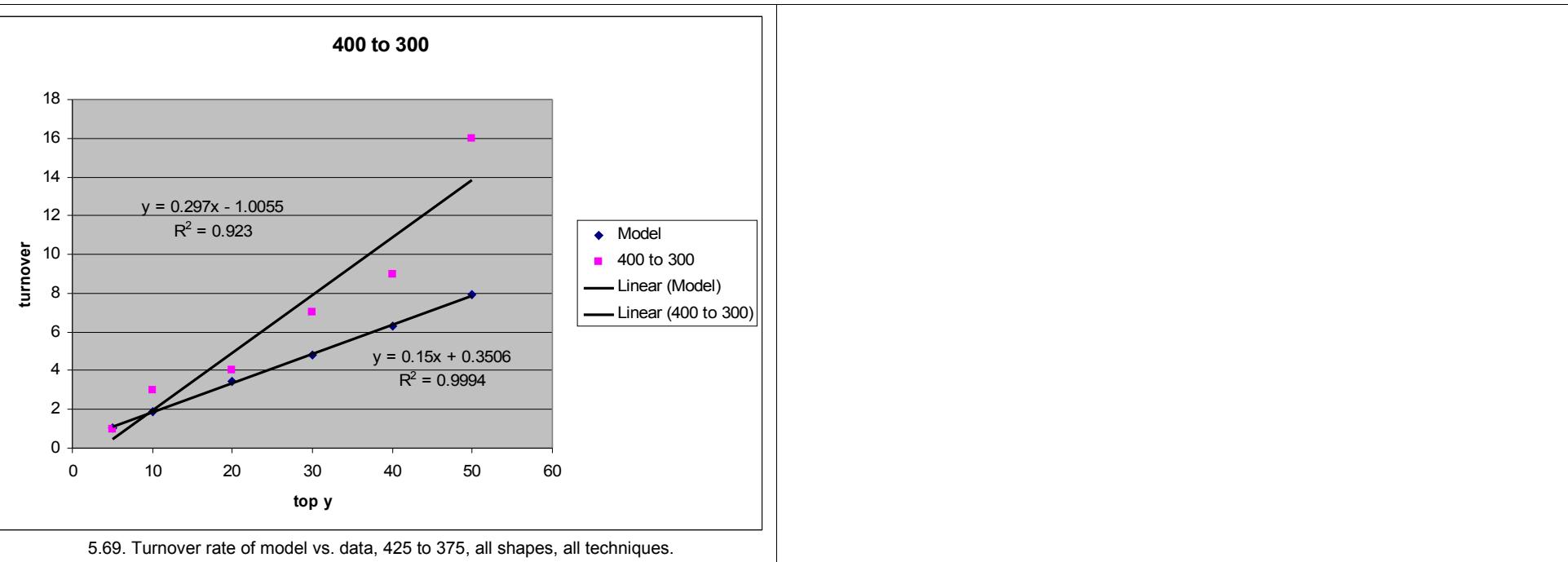
5.66. Turnover rate of model vs. data, 475 to 425, all shapes, all techniques.



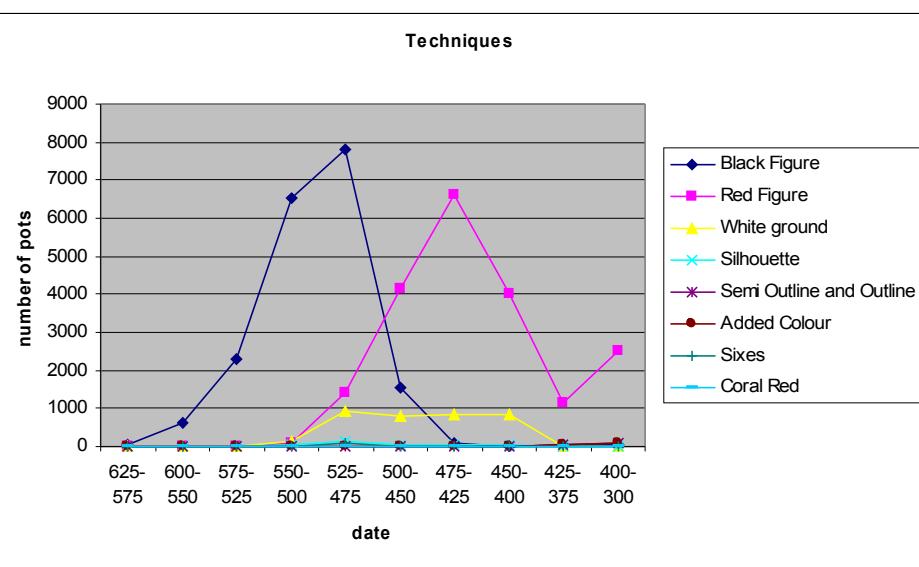
5.67. Turnover rate of model vs. data, 450 to 400, all shapes, all techniques.



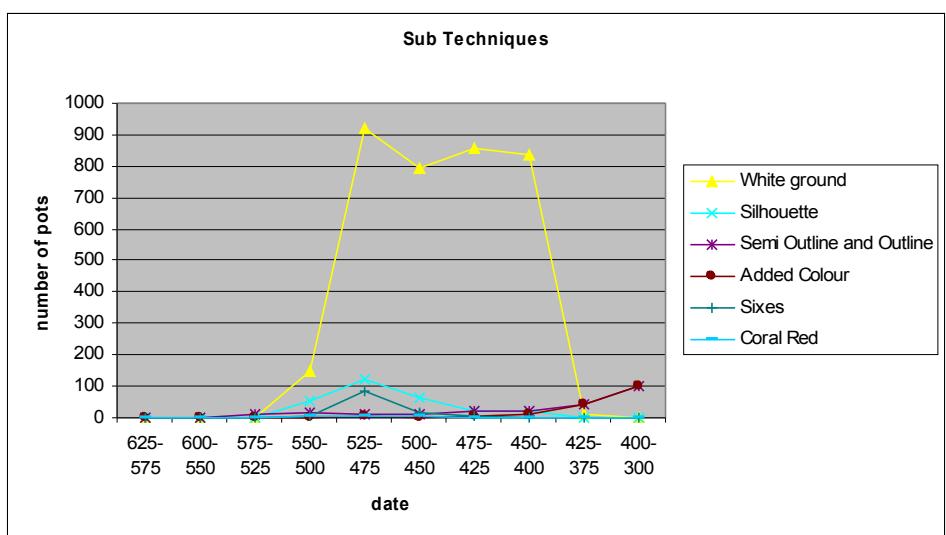
5.68. Turnover rate of model vs. data, 425 to 375, all shapes, all techniques.



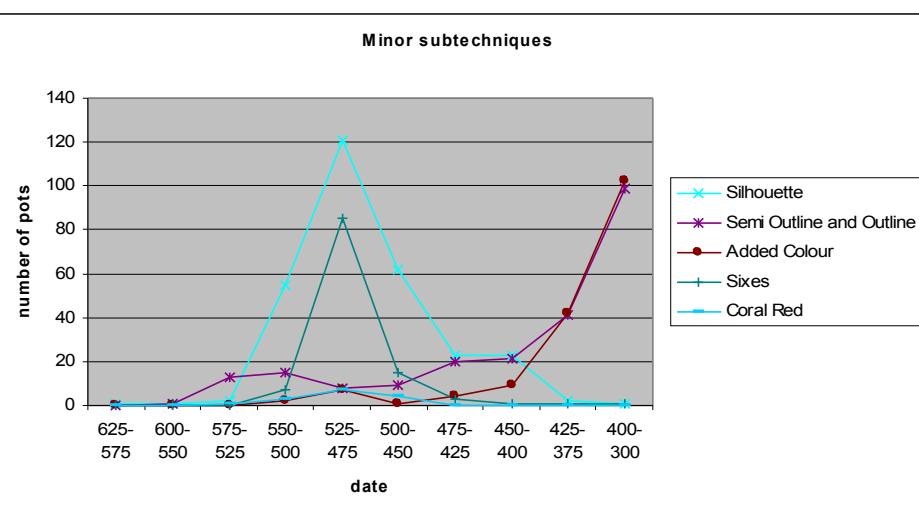
Figures Chapter 6



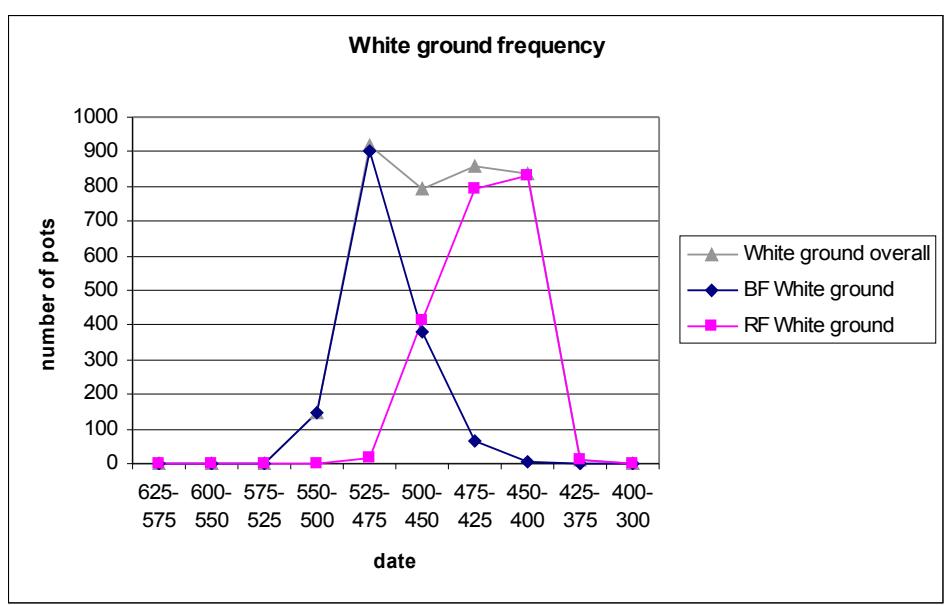
6.1. All techniques, by date and number of pots.



6.2. Sub techniques, by date and number of pots.

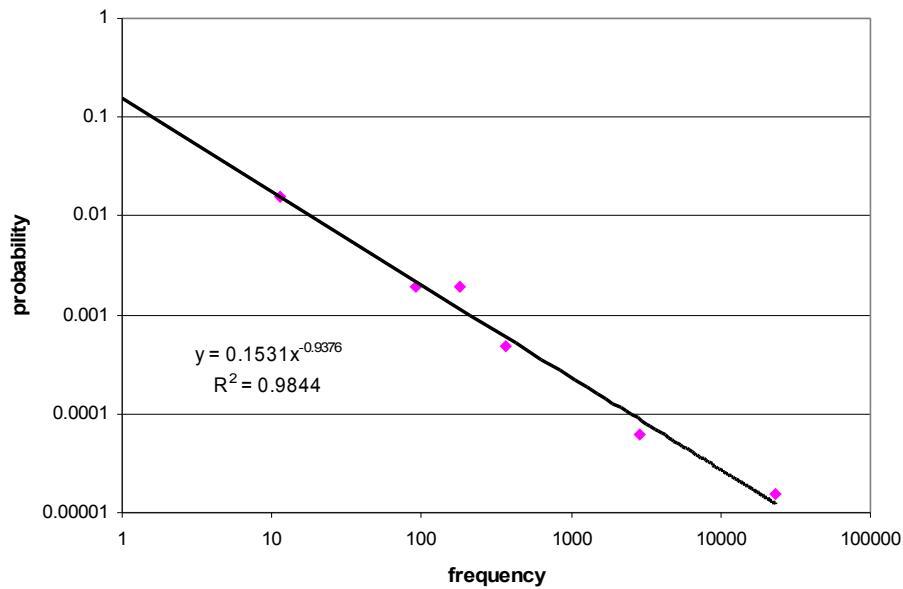


6.3. Minor sub techniques, by date and number of pots.



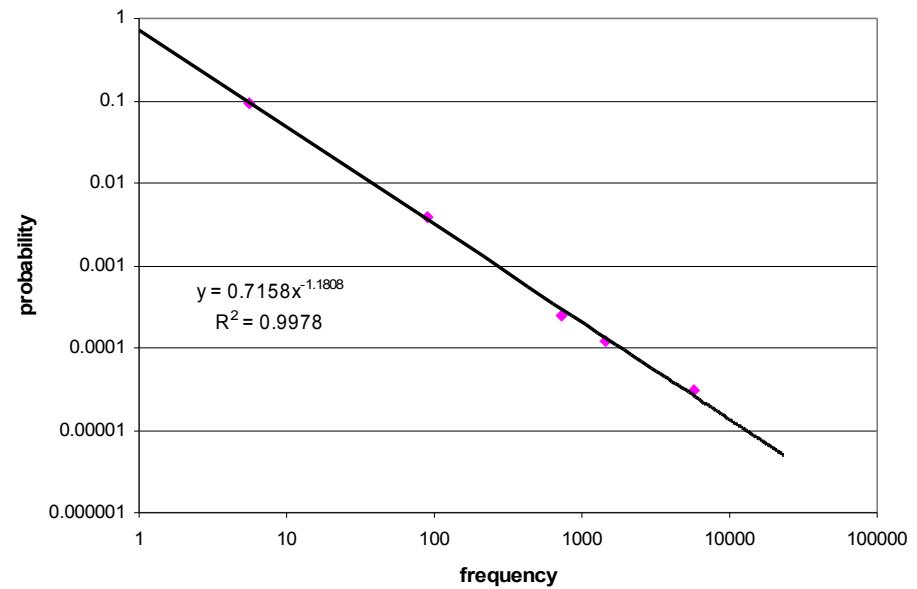
6.4. White ground as a sub-technique of black-figure and red-figure.

Technique frequencies all dates

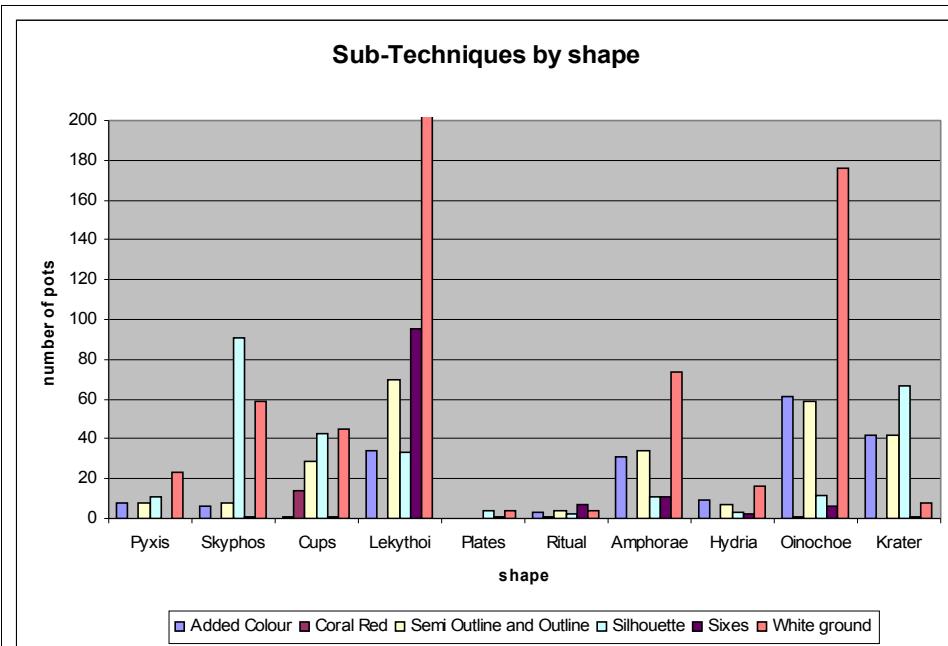


6.5 Log log plot showing the probabilities of the frequencies of all techniques, all dates.

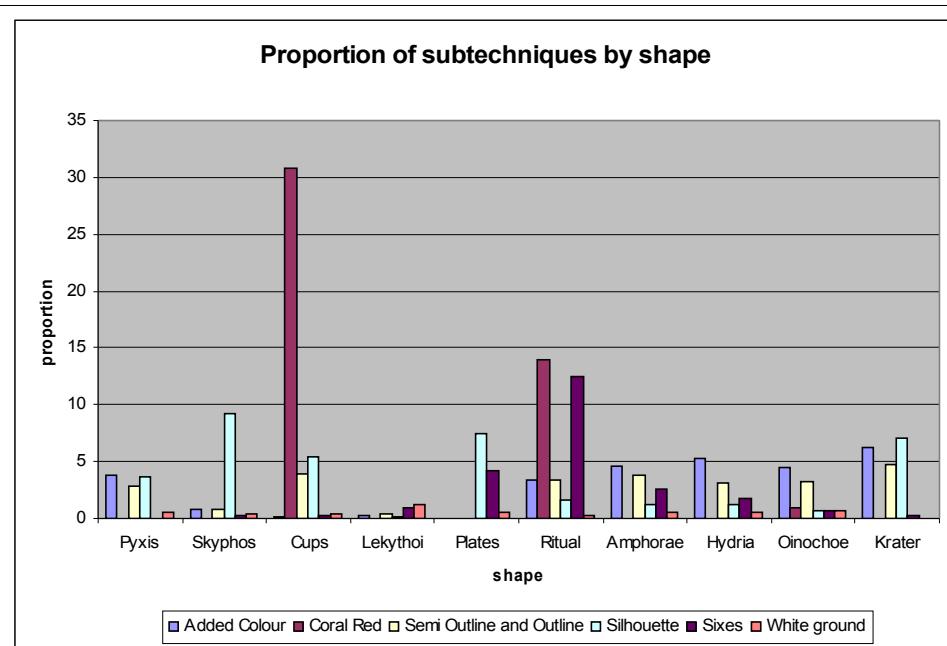
Technique frequencies 525 to 475



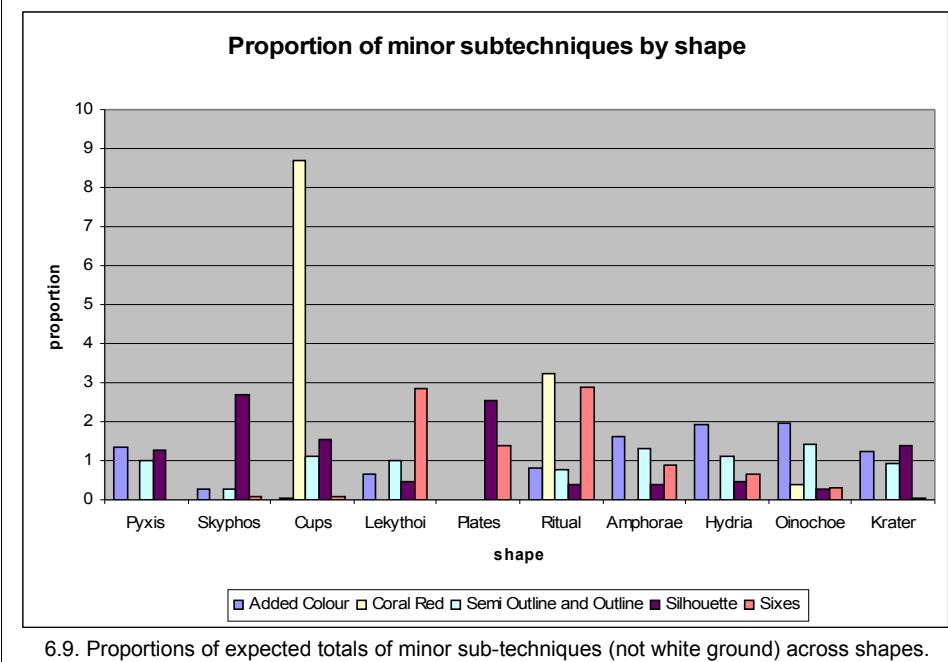
6.6 Log log plot showing the probabilities of the frequencies of all techniques, 525 to 475 only.



6.7. Distribution of sub-techniques across shapes. Value for white ground lekythoi = 3,353.

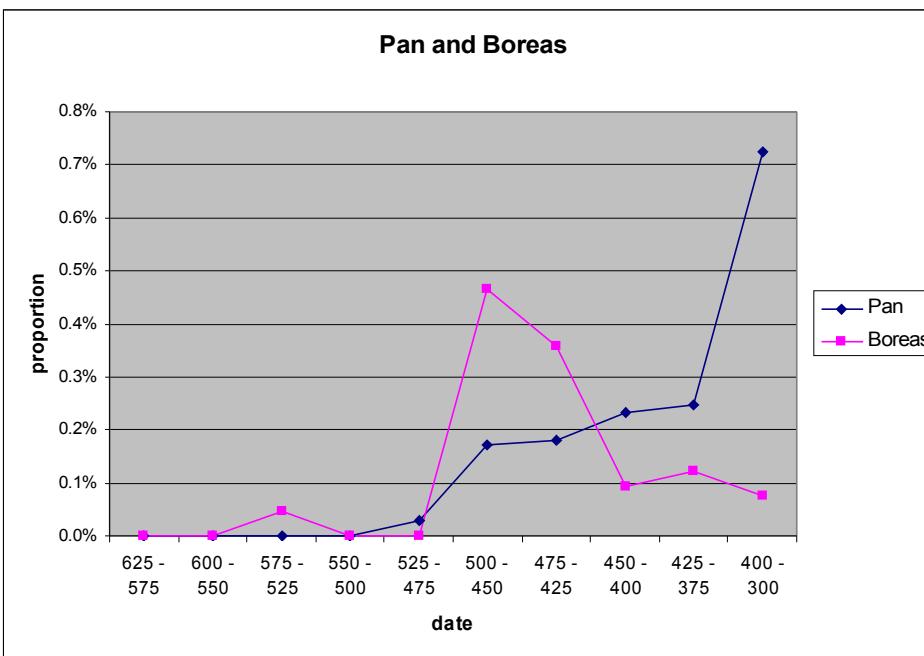


6.8. Proportions of expected totals of sub-techniques across shapes.

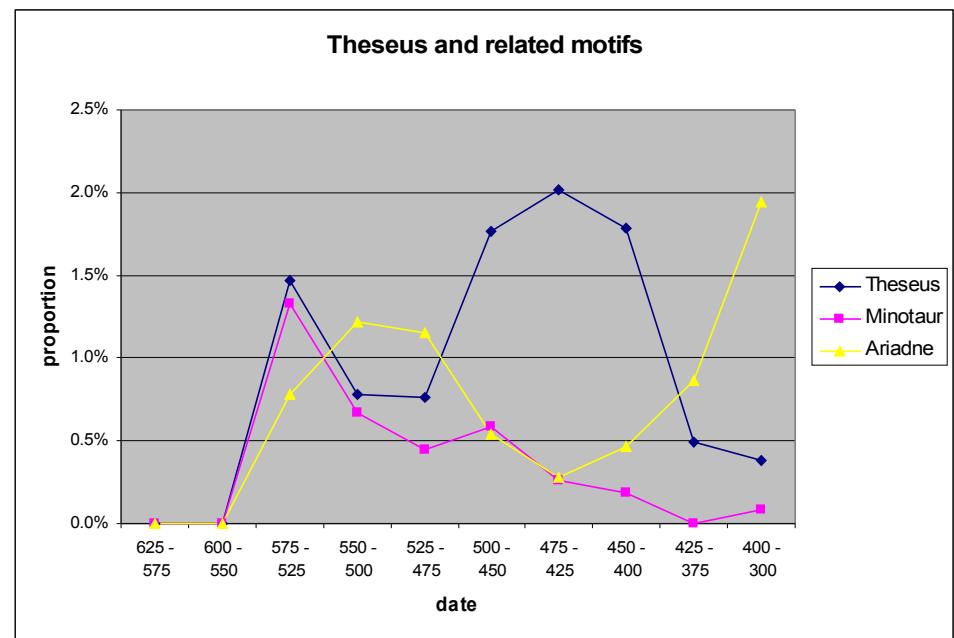


6.9. Proportions of expected totals of minor sub-techniques (not white ground) across shapes.

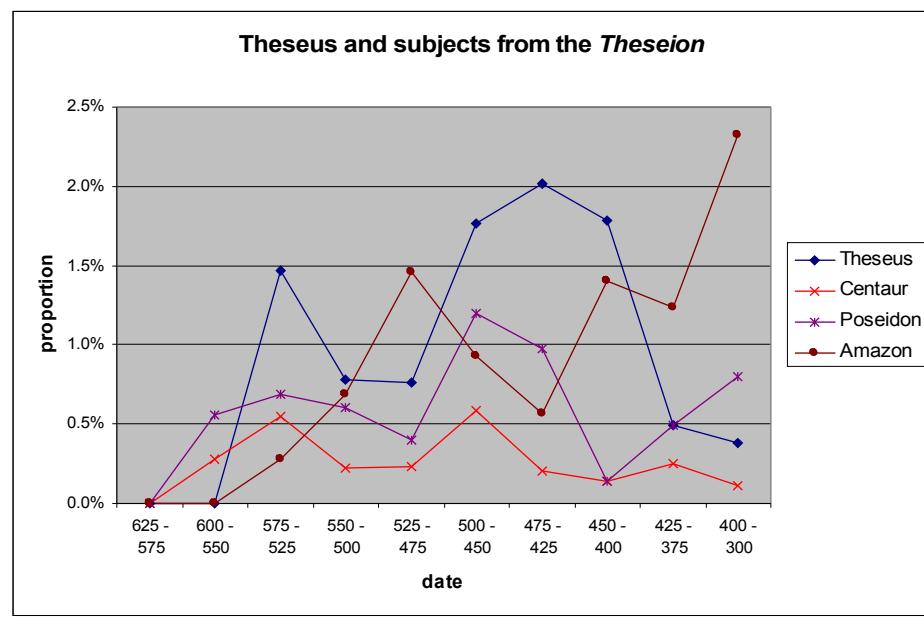
Figures Chapter 7



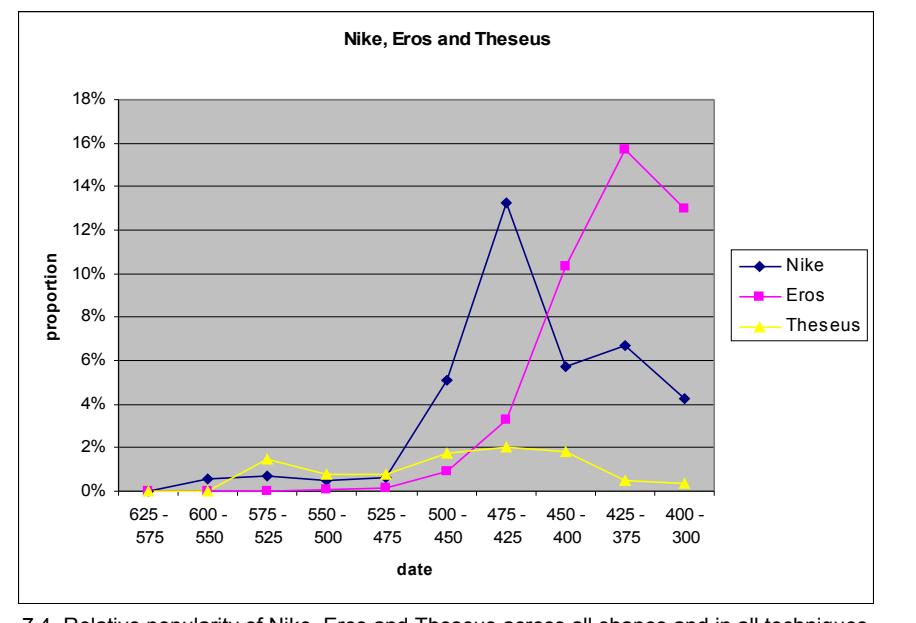
7.1. Pan and Boreas. Proportions on all shapes in all techniques.



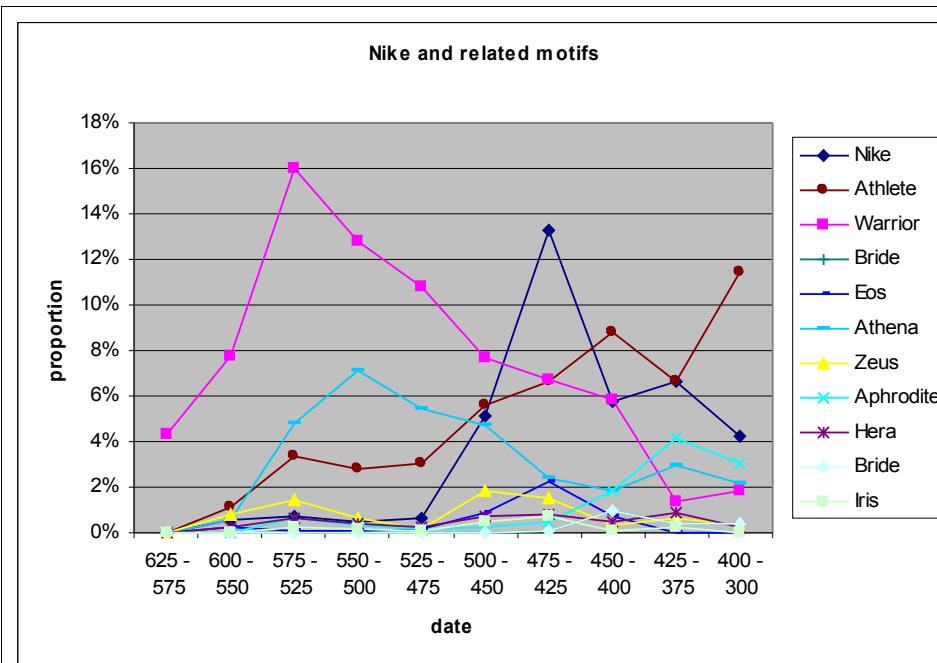
7.2. Theseus and related motifs. Proportions on all shapes in all techniques.



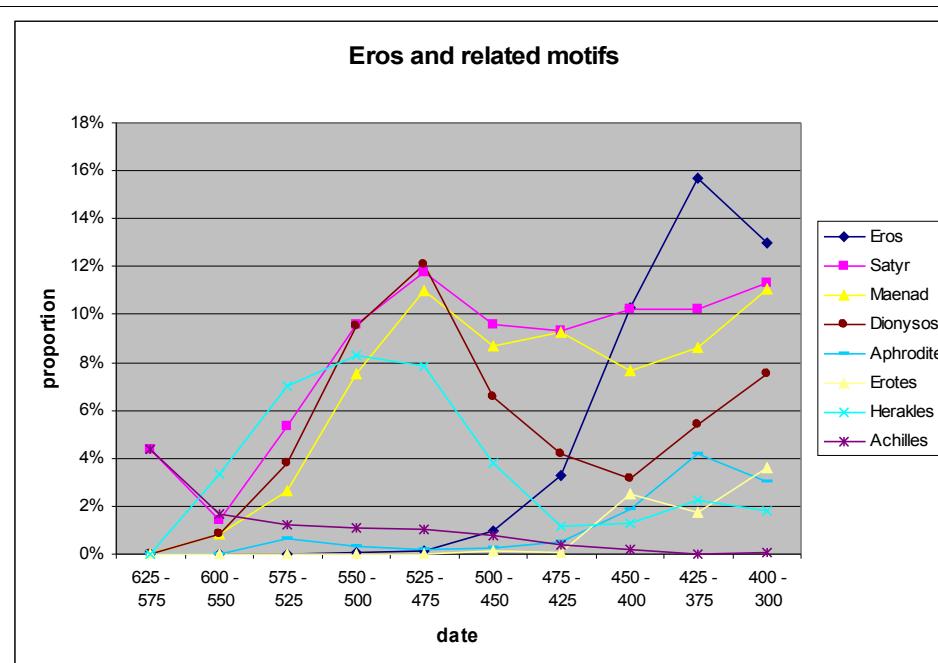
7.3. Theseus and subjects from the *Theseion*. Proportions on all shapes in all techniques.



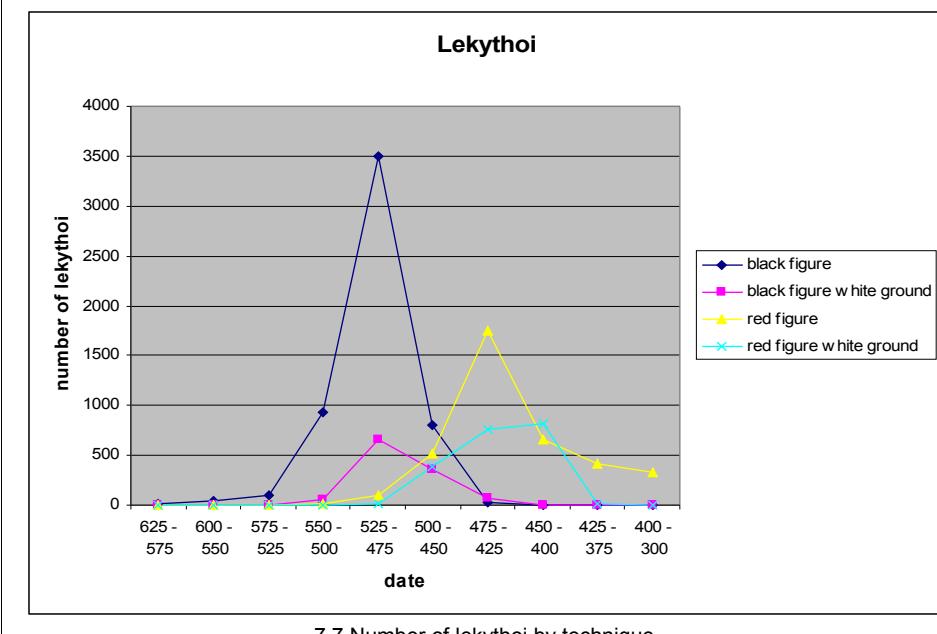
7.4. Relative popularity of Nike, Eros and Theseus across all shapes and in all techniques.



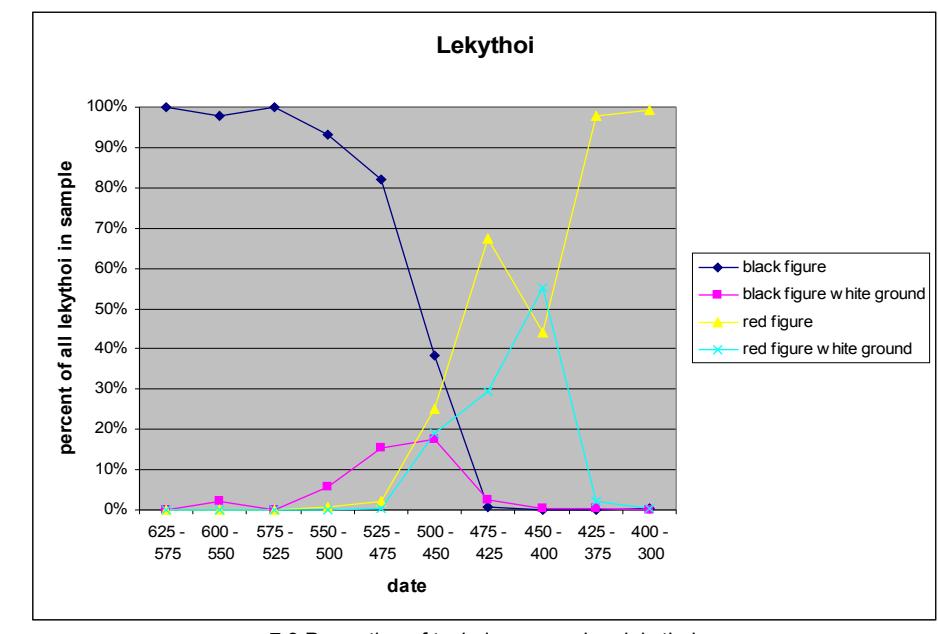
7.5. Relative popularity of Nike and related motifs across all shapes and in all techniques.



7.6. Relative popularity of Eros and related motifs across all shapes and in all techniques.



7.7 Number of lekythoi by technique.



7.8 Proportion of techniques used on lekythoi.

