star turtle (tartaruga stellata)

Roberto Gretter, autumn 2004

start from a regular hexagon, minimun side 10 cm.
best results with elephant hide paper

1. white up; valley precrease
2. again, valley precrease
3. again, valley precrease
4. mountain precrease
5. again, mountain precrease

(in steps 4–6 fold only the horizontal lines,
the rhombes are only for reference)
6. again, mountain precrease
7. repeat steps 4–6 in the other 2 directions
8. the 7 central hexagons of the tassellation are done (two of them are highlight in gray)
9. color up; mountain precrease
10. valley precrease
11. mountain precrease
while the 6 external hexagons will form a 6 pointed star, will form 5 pointed stars step 8; the central hexagon common to the 7 hexagons of hexagonal tassellation, creases; the crimp in the gray hexagon will form a 5 pointed star 12. head: close following the existing creases; the crimp in the gray hexagon will form a 5 pointed star note the 2 new symbols hexagonal tassellation, common to the 7 hexagons of step 8; the central hexagon will form a 6 pointed star, while the 6 external hexagons will form 5 pointed stars 13. ... in progress ... 14. head done 15. tail: first the external mountain folds; the crimp in the gray hexagon will form a 5 pointed star 16. reopen everything

▲ means vertex with the point up ▼ means vertex with the point down

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17. legs: crimp in the hexagon and twist in the triangle

18a. bottom view

19a. repeat steps 17–19 on the other 3 legs

pictures from above and beneath, with the mains creases set up; close all the creases again to reform the 7 stars

19. leg set up: another 5 pointed star

...in progress...
20. lock of the tail

21.

22. tail done

23. crimp

24. mountain–valley folds to separate the shell from the legs

25. star turtle