

TABLE OF CONTENTS

	<u>Page</u>
1. Introduction	1
2. Previous literature on the morphology of <u>A. planci</u>	2
3. Materials and methods	3
4. Morphology	4
1. Skeletal Architecture	
5. Characterisation of individual elements	7
1. Gross morphology	
2. Microstructure	
3. Chemistry	
6. Recognition of <u>A. planci</u> in the sedimentary record	11
7. Conclusion	13
8. References	14
Appendix - plates	16

LIST OF FIGURES

Figure 1. Schematic section through the arm of <u>A. planci</u> showing the relative position of elements.	5
Figure 2. Arrangement of elements in the arm of <u>A. planci</u> .	6

LIST OF PLATES

Plate 1. Anatomy of <u>A. planci</u> .	17
Plate 2. Anatomy of <u>A. planci</u> continued. Terminology used in description of ossicles.	19
Plate 3. <u>A. Planci</u> - element morphology.	21
Plate 4. <u>A. planci</u> - element morphology continued.	23
Plate 5. <u>A. planci</u> - element morphology continued.	25
Plate 6. <u>A. planci</u> - element morphology continued.	27
Plate 7. <u>A. planci</u> - element morphology continued.	29
Plate 8. <u>A. planci</u> - element morphology continued.	31
Plate 9. <u>A. planci</u> - microstructure of elements.	33
Plate 10. <u>A. planci</u> - microstructure of elements continued.	35
Plate 11. <u>A. planci</u> - microstructure of elements continued.	37
Plate 12. Other sea stars - element morphology.	39
Plate 13. Other sea stars - microstructure of elements.	41