

OPTIMISING AUSTRALIA'S ADVANTAGES IN SPACE

LIGHTNING STRIKERS CUTTING-EDGE FIGHTERS

HOMEGROWN SATELLITES

AEROBATIC MIRAGES





AIR FORCE ASSOCIATION MAGAZINE -ESTABLISHED 1943-

MANAGING EDITOR'S **MESSAGE**

WELCOME TO THE WINTER 2022

recently established Defence Space

the formation display teams of the

Ron Haack, Wings managing editor

WINGS EDITORIAL **DEADLINES 2022**

DEADLINE





CONTENTS

WINGS WINTER 2022 VOLUME 74/NO.2

- **WELCOME MESSAGE**
- 5 PRESIDENT'S DESK
- 6 MILITARY AVIATION
- **ASSOCIATION NEWS** 13
- **INDUSTRY NEWS** 16
- TAKING COMMAND IN SPACE 22 A new Defence domain
- LOCAL SATELLITE PRODUCTION A \$71 million investment
- A QUANTUM LEAP IN TIME Super accurate and secure timing
- AIR TRAFFIC CONTROL FOR SPACE Protecting our outer limits
- **AERIAL BALLET** Flying with the Deltas
- **CENTREFOLD** 38 Pull out and keep
- LIGHTNING STRIKES TWICE 40 Lockheed's P-38 and F-35
- WINGS OUT WEST 46 **RAAF Base Pearce**
- **AIRCRAFT OF WAR AND PEACE** 50 Perth's Aviation Heritage Museum
- THEN. NOW. ALWAYS. 54 Centenary commemorations conclude
- FLOATING HISTORY Search and rescue boat preservation
- 56 WHAT CHINA LEARNT FROM *MELBOURNE* China's aircraft carrier program
- AN EXCLUSIVE CLUB Australia's little-known Roo Club
- **MANAGEMENT & LEADERSHIP**
- PERSONAL FINANCE
- 68 **CADETS NEWS**
- LAST FLIGHT 71
- 74 BOOK REVIEWS





In the Winter 22 edition of Wings magazine, we initiate two new series, one tracing the exploration and utilization of space beginning with an introduction of the recently established Defence Space Command and the other featuring the formation display teams of the Western world opening with a personal account of our very own Deltas, a Mirage III team formed to celebrate the RAAF golden jubilee. There is an intriguing account of the Chinese disposition of HMAS Melbourne and a fascinating story of research effort by Defence Science and Technology Group to develop a sovereign 'unspoofable', position, navigation and timing system (Aussie GPS) exploiting the properties of photons. We showcase RAAF Base Pearce and the WA Bulls Creek aviation museum and resurrect an exclusive club that celebrated fortunate escapes from the inherent risks of aviation.