

03 EDITORIAL

ADVANCES IN CHILEAN ANTARCTIC SCIENCE



- 06 DEEPER ANTARCTICA: THE NEW CHALLENGE
- THE UNION GLACIER: MICROORGANISMS AT THE FRONT DOOR OF THE SOUTH POLE
- 13 THE WINTER JOURNEY OF THE HUMPBACK WHALE
- 18 STUDYING CLIMATE CHANGE THROUGH THE LIFE HISTORY OF THE ANTARCTIC MIDGE
- VULNERABILITY OF ANTARCTIC MACROALGAE TO CLIMATE CHANGE
- 26 KRILL: THE KEY PLAYER IN AN UNKNOWN WORLD
- TRACK CHANGES: ONE DAY AT THE ARTURO PRAT ANTARCTIC STATION, HALF A CENTURY

ANTARCTIC REFLECTIONS



LATITUDE 80 SOUTH, LONGITUDE 80 WEST:

THE RIGHT PLACE. THE RIGHT TIME

34

- 36 ANTICIPATING ANTARCTICA IN THE 21ST CENTURY: A VIEW FROM THE SOCIAL SCIENCES
- THE INTERNATIONAL ANTARCTIC CENTER: HUNTING DOWN A DREAM



CHILEAN ANTARCTIC SCIENCE PROGRAM

- 46 LINE I: THE STATE OF THE ANTARCTIC ECOSYSTEM
- 48 LINE II: ANTARCTIC THRESHOLDS: ECOSYSTEM RESILIENCE AND ADAPTATION
- 50 LINE III: ANTARCTIC CLIMATE CHANGE
- **52** LINE IV: PHYSICAL AND EARTH SCIENCES



- 4 LINE V: ANTARCTIC MICROBIOLOGY AND MOLECULAR BIOLOGY
- 57 LINE VI: ANTARCTIC ENVIRONMENT