Background. The 78th Symposium on the Flight Mechanics Panel of AGARD met in Seville, Spain, 20-23 May 1991. This symposium considered the problems of mutual interest connected with fixed and rotary wing aircraft operations from ships, and the application of new technology to enhance such operations. The symposium reviewed the current problems and future progress in:

- The ship environment in terms of wind, temperature, precipitation, turbulence and deck motion;
- Guidance, controls and displays, primarily in the approach and landing phase;
- Flight test and simulation techniques;
- Launch, recovery and handling system developments;
- Operational/pilot views;
- Future developments.

Copies of the following papers are obtainable through the Office of Naval Research European Office:

1. Fixed Wing/Carrier Operations Perspective
   RADM P.W. Parcell, Tactical Wings U.S. Atlantic Fleet, United States (U.S.)
2. Helicopter/VSTOL/Ship Operations Perspective
   Representative from the Ministry of Defence, United Kingdom (U.K.)
3. Deck Motion Criteria for Carrier Aircraft Operations
   J.H. Pattison, NAVSEASYSCOM, and R.R. Bushway, NAVAIRSYSCOM, U.S.
4. Aerodynamics of Ship Superstructures
   J.V. Healey, Navy Postgraduate School, U.S.
5. Ship Airframe Measurement and Modeling Options for Rotorcraft Applications
   D. Carioc and B. Reddy, NATC, & C. Dimarzio, Northeastern University, U.S.
   M. Muler and F.G. Portabella, Spain (SP)
7. Ship Motion Prediction and Its Utilization as a Landing Timing Aid
   S.H. Mikhall, Naval Technologies, Canada, CA
   R.W. Huff and G.K. Kessler, NAVAIRSTOCEN, U.S.
9. MIL-H-8501B: Application to Shipboard Terminal Operations
   J. Johna and A. Cappeta, NADC, U.S.
10. Intégration du Piloteage et des Systèmes d’Aide à l’Appartement pour les Opérations Embarquées (Integration of Flight and Landing Aid Systems for Shipboard Operations)
    B. Dang Vu and P. Costes, ONERA, France (FR)
    M.Y. Le Guilloux, SAGEM, FR
12. Approach and Landing Guidance
    A.J. Smith and E.J. Guiver, RAE, U.K.
    Fu-Shang Wei, Kaman Aerospace Corporation, U.S.
14. Helicopter/Ship Analytic Dynamic Interface
    D. Church, B. Ferrier, H. Poli, and F. Thibodeau, CA
15. Evaluating Fixed Wing Aircraft in the Aircraft Carrier Environment
    C.P. Sonn, NATC, U.S.
16. EH-101: Ship Interface Trials, Flight Test Programme and Preliminary Results
    R. Longobardi and B. Paggi, Agusta, Italy
17. Helicopter/Ship Qualification Testing
    R. Fang, NLR, the Netherlands, NE
18. United Kingdom Approach to Deriving Military Ship Helicopter Operating Limits
    B.A. Finlay, A & EEE, Boscombe Down, U.K.
19. A Review of Australian Activity on Modeling the Helicopter/Ship Dynamic Interface
    A.M. Amy, J. Blackwell, L.P. Erm, and N.E. Gilbert, Australia
20. United States Navy Ski Jump Test Experience and Future Applications
    C.P. Sonn and T.C. Lee III, NATC, J.W. Clark, Jr., NAVAIRDEVCE, U.S.
21. Launch, Research and Handling Systems for Vertical Take-off and Landing Unmanned Aircraft - Operating from Small Ships
    S.H. Mikhall, Naval Technologies, CA
22. Modélisation Dynamique de l'Avion sur ses Atterrissage et Validation par Fraichissement d'un Dilemme (Modelling of Landing Gear During Catapult Phase)
    M.D. Feygnac and E. Bourdais, Dassault Aviation, FR
23. Some Implications of Advanced STOVL Operations from Invincible Class Ships
    K. Ainscow and P. Knott, British Aerospace, U.K.
24. Fixed-Wing Night Carrier Aero-Medical Considerations
    J.C. Antonio, Air Development Squadron Five, U.S.
25. Environmental Limitations in Aircraft/Ship Operations
    D. Fairall, AIR
26. Aircraft Options for a Revolution at Sea: 2030
    J.C. Biggera, AFC Professional Services, P.A. Silva, David Taylor Research Center, U.S.

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