

Projects: W. M. Farrell

Project	Role	Hardware Delivered
ISEE-3 1982-4	Data analyst/MS thesis	
IMP-8 1982-4	Data analyst/MS thesis	
Shuttle's SL-2 PDP 1985-7	Data analyst/PhD thesis	
Voyager 1988-90	Guest Investigator Prgm	
Dynamics Explorer 1987-88	Data analyst	
Hawkeye -1 1988-89	Data analyst	
WIND 1990-2004	Co-I, Waves; Co-I & Data Manager on MFI	
Cassini 1991-pres	Co-I, RPWS	
Ulysses 1990-2000	Data Analyst	
Sporadic E Rocket 1992	Instrument Build Lead	Flight Search coils
DDF Data Compression 1992	PI	Prototype VLF radio
PULSAUR II Rocket 1993-4	Instrument Build Lead	Flight Search coils
DDF lightning study 1994-6	PI	Ground-based VLF digital receiver
Svalbard/Cusp Rocket Campaign 1995-6	Instrument Build Lead	Flight Search coils (2)
DDF Navy UAV Demo 1997	Instrument Build Lead	Airborne Search coils
SR&T/GGS Magnetopause detection via ground-based HF radar 1997-99	PI	
DDF Electric Dust 1998-9	PI	Prototype RF dust detector
Mars Express MARSIS 2003-2010	Participating Scientist	
Mars03 Surveyor/MATADOR 1999-2001	Deputy PI (PI of ECHOS team, merged after selection)	Ground-based VLF E and B system (Field test)
UAV Altus Demo Flight (support SBIR) 2000	Instrument Build Lead	Airborne Search coils
Altus Cumulus Electrification Study (ACES) 2001-3	Co-I	Airborne Poynting Vector System (AC E and B)
Nightglow Balloons 2000,2002	Instrument Build Lead	Airborne Search coils
USAF – C/NOFs 2002	VEFI Hardware Provider	Flight VLF filter bank system
ROSES/MFRP Triboelectric dust 2002-5	PI	
ROSES/MFRP Electrochemistry in dust storms 2006-7	PI	
IRAD/Lunar dust characterization and mitigation (umbrella study) 2007	PI	
USAF – DSX 2004-pres	Instrument Build Lead	Flight Search coils
NLSI/DREAM 2009-2014	PI	
Solar Probe Plus – Fields 2010-pres	Co-I (Backup Search Coils)	
IRAD ISS/Firestation 2011-2012	Co-I	Flight Search Coil
ROSES/MFRP Mars Lightning 2013-2016	PI	
SSERVI/DREAM2 2014-	PI	