



KuaFu

Carine Briand
LESIA

Brefs Rappels

Sino-Européen

Objectifs

- *Scientifique + Space weather mission*
 - *Etudes des perturbations depuis le soleil jusque dans l'environnement terrestre*
- *Lancement ... 2012*

Mission (situation en 2008)

- *3 satellites*
 - *KuaFu A (L1)*
 - *KuaFu B (2 satellites en orbite polaire)*
- *Equipes Projet*
 - *Chuan-Yi TU (Pekin University)*
 - *R. Schween (D), E. Donovan (Canada), E. Marsch (D)*

Instruments KuaFu A

Suggested KuaFu Payloads (updated: July 18, 2006)

Table 1: KUAFU-A payload

Instrument		Mass(kg)	Comprehensive study	
EUV/FUV Disk Imager	EUV/FUV Imager	82.5	P. Rochus U. Schühle L. Harra	Belgium Germany UK
	MOSES			
Ly-alpha/White- Light Coronagraph	LyCo/ViCo		P. Lamy	France Italy China
			L.-D.Xia	
Solar Wind Instrument Package (FGM+Plasma)	FGM	2.5	S. Schwartz R. Schwenn/ K.-H. Glassmeier	UK Germany
	Plasma	4.8		
Radio Burst Instrument		11	J.-L. Bougeret	France
Solar Energetic Particle Sensor		6.5	R. Wimmer- Schweingruber	Germany
High Energy Proton Detector		4.3	Y. Xu /S.-J. Wang	China
High Energy Electron Detector			Y. Wang /S.-J. Wang	China
Ion Composition Detector			S. Y. Zhang /S.-J. Wang	China
Hard X-Ray /Gamma-Ray Spectrometer		4.5	W.-Q. Gan/J. Chang	China
Solar Irradiance Measurement		13	D.-R. Lu/ W. Schmutz	China/ Switzerland
Total		~129		

Instruments KuaFu B

Table 2: KUAFU-B1 payload
(B1 with lower energy measurements)

Instrument		Mass(kg)	Comprehensive study	
Multi-Channel Aurora Imager	UVAM C	20	E. Donovan/T. S. Trondsen	Canada Belgium UK Norway Finland
	FUVSI	20	C. Jamar	
	WFAI	2	M. Lester	
Fluxgate Magnetometer		2.5	S. Schwartz	UK
Neutral Atom Imager		6	S. McKenna-Lawlor	China/Ireland
Imaging Energetic Electron and Proton Instrument		6.4	M. Dunlop/H.-F. Chen	UK/China
Fast Plasma Pitch Angle Instrument + Ion Mass-Spectrometer		6.4 + 3.5	A. Fazakerley I. Dandouras/J.-B. Cao	France/China /UK
Total		66.8		

Derniers développements

- *Dernière réunion : Septembre 2008*
(situation de Solar Orbiter encore incertaine)
- *Proposition de séparer KuaFu A en 2 :*
spinner - stabilisé 3 axes
- *Lancements éventuellement échellonnés*
(KuaFu B + A1 (spinné) puis KuaFu A2)
- *Puis plus de nouvelles jusqu'à ...*

Aout 2010 !

- *Nouvelles :*

- “Dear All,

The first workshop concentrating on the work towards the **engineering phase of KuaFu A** will be held in Beijing on November 4 and 5, 2010. You are invited to join the meeting. Please send the reply before Sept. 10, 2010 if you will join it so that we can send the visa documents on time. The workshop agenda will be confirmed on the middle of the September.”

- *Quel structure de KuaFu A ? Quid de KuaFu B ?*
 - *Que s'est-il passé en Chine depuis 2008 ??*

Nouveautés

- *William Liu (CSA) reprendrait la direction du projet (à confirmer)*
- *KuaFu géré dorénavant par CSSAR (agence spatiale chinoise)*
- *KuaFu B : projet repris par les Canadiens*
- *Science de KuaFu A ?? Projet Multi-satellites ??*
- *MoU avec Berkeley pour la Radio sur K-A. Aussi Minnessota dans les labos qui pourraient participer (2 labos impliqués SoLo et/ou SP+)*

Nouveautés

MARS DAILY

NASA chief to visit China

Washington (AFP) Oct 12, 2010 - NASA chief Charles Bolden will make an official visit to China October 16-21, a spokesman for the US space agency said Tuesday. The visit was first announced in November 2009 during a visit to China by President Barack Obama but no dates had been set until now, NASA spokesman Michael Cabbage said. He provided no agenda for the visit. Representative John Culberson, a Republican from Texas ... [more](#)



Prochaine réunion : Beijing Novembre 2010

Mise à jour des instruments (new opportunities ??)