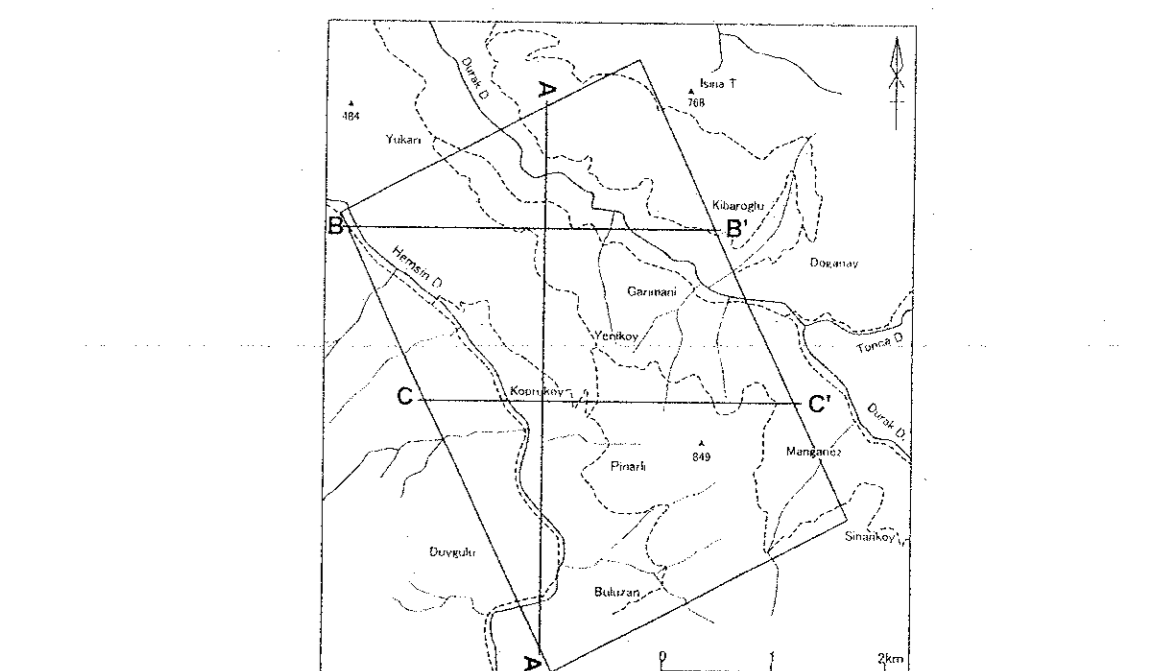


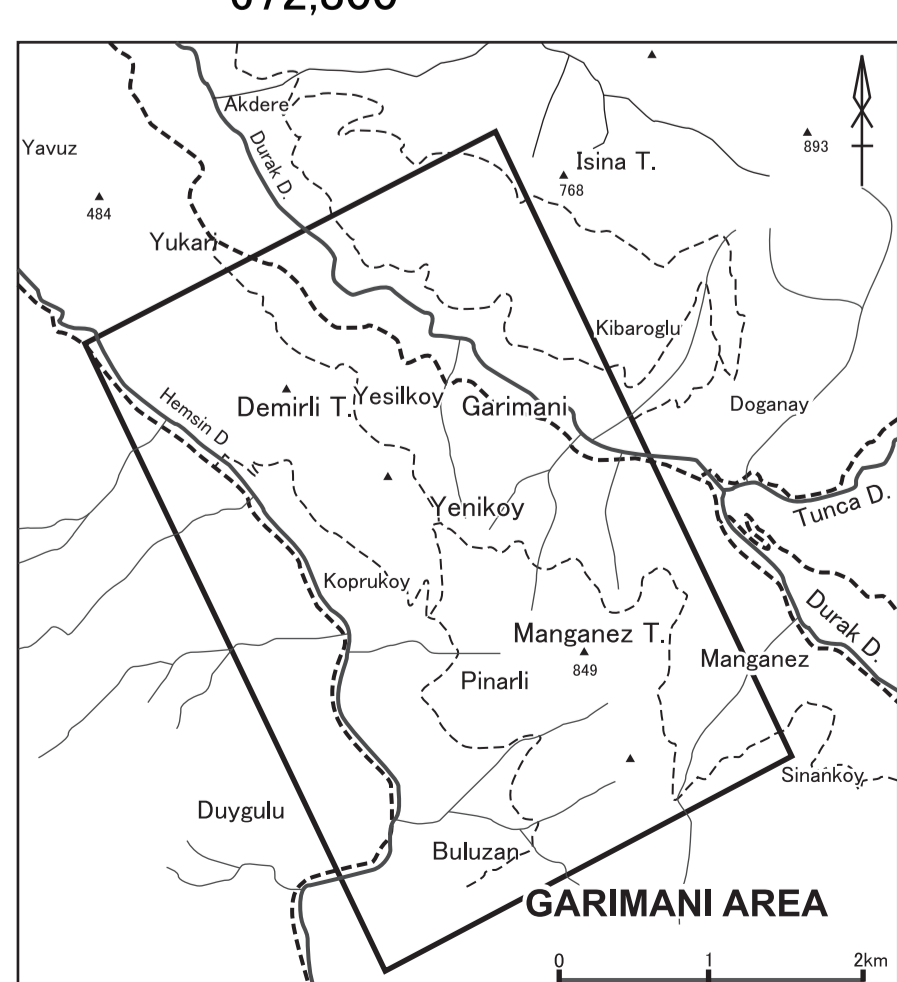
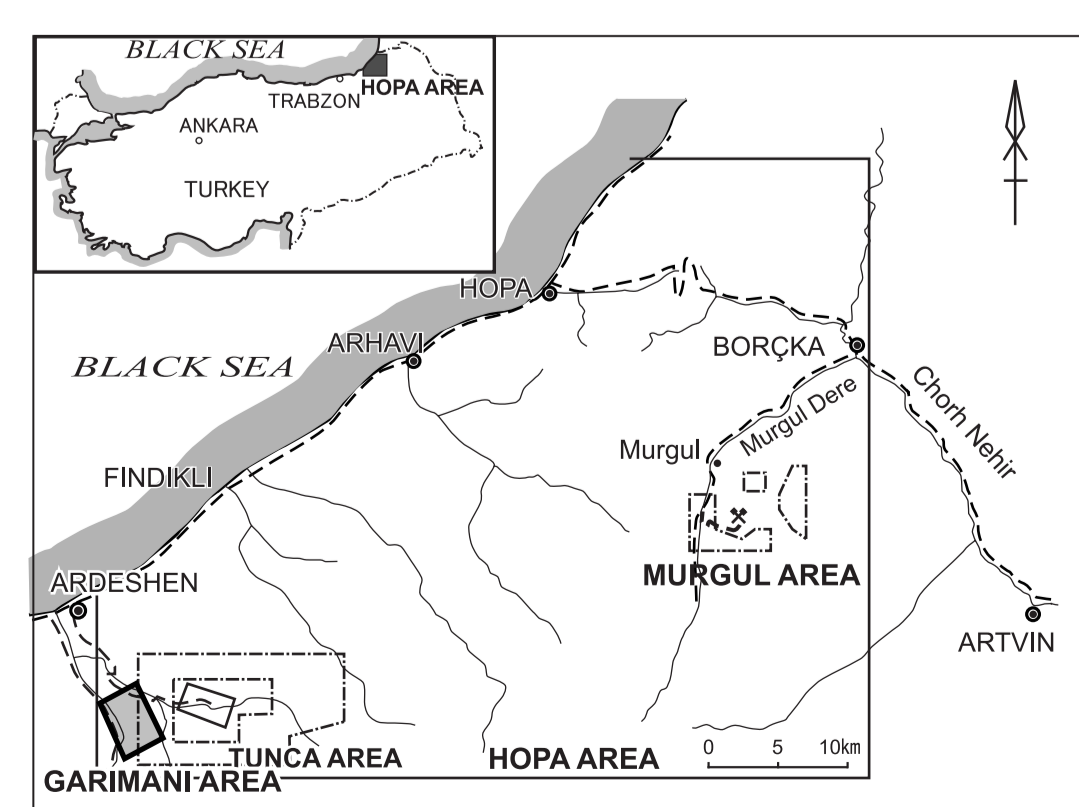
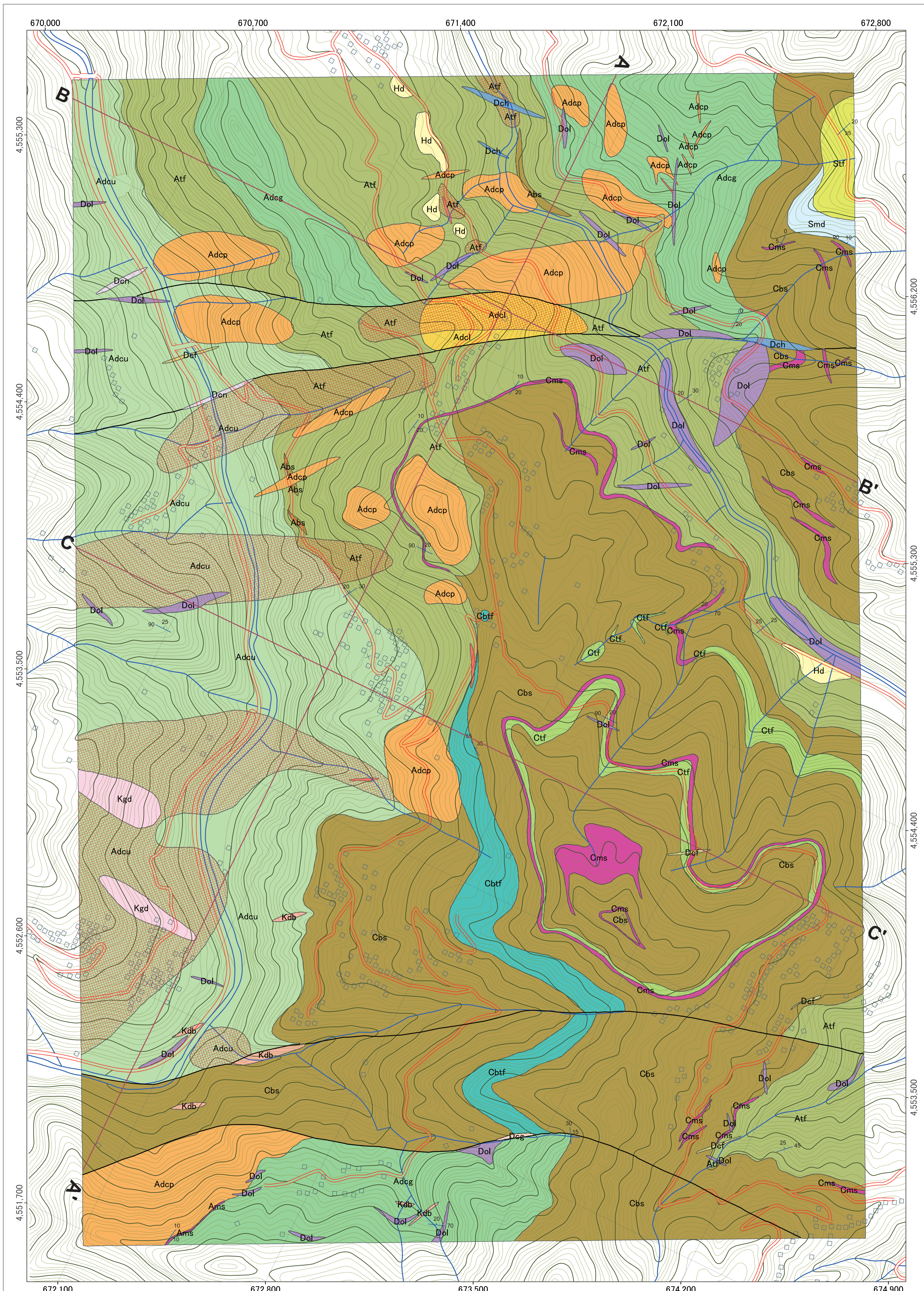
REPORT  
ON  
THE MINERAL EXPLORATION  
IN  
THE HOPA AREA,  
PHASE III  
GEOLOGICAL CROSS SECTION  
(SCALE 1: 5,000)

JAPAN INTERNATIONAL COOPERATION AGENCY  
JAPAN OIL, GAS AND METALS NATIONAL CORPORATION  
FEBRUARY 2005



**Legend**

	Sediment		Porphyritic Biotite Dacite
	Acidic Tuff		Granodiorite
	Mudstone		Hornblende Dacite
	Acidic Tuff		Plagioclase Dacite
	Basic Tuff		Fine grained Dacite
	Basalt Lava		Glassy Dacite
	Calcareous Mudstone		Dolerite
	Basalt Lava		Strike and Dip
	Dacitic Pyroclastics		Fault
	Green Dacite		Mineralization Zone
	Purple Dacite		
	Dacitic Pyroclastics		
	Dacite lava		
	Aphyric Dacite		



**Hamidiya Formation**  
 Hd Sediment  
**Sivrikaya Formation**  
 Stf Acidic Tuff  
 Smd Fine Tuff/Mudstone

**Cağlayan Formation**  
 Cmf Fine Tuff/Mudstone  
 Ctr Acidic Tuff  
 Cbt Basic Tuff  
 Cbs Basalt Lava  
 Cms Calcareous Mudstone

**Alemgac Formation**  
**Upper Member**  
 Attf Dacitic Pyroclastics  
 Adcg Green Dacite  
 Adcp Purple Dacite  
**Lower Member**  
 Abs Basalt Lava  
 Atf Dacitic Pyroclastics  
 Adcl Dacite lava  
 Adcu Aphyric lava

**Intrusive Rocks**  
 Kgd Granodiorite  
 Kbd Porphyritic Biotite Dacite  
 Dch Hornblende Dacite  
 Dcn Plagioclase Dacite  
 Dcf Fine grained Dacite  
 Dcg Vitric Dacite  
 Dol Dolerite

20 80 Strike and Dip  
 --- Fault  
 Mineralized Zone  
 A—A' Cross Section Line



Geological Map of the Garimani Area