

Direct Digital Image Acquisition and

Contracting Officer's Technical Representative Roles and Responsibilities

Other Discussion Items

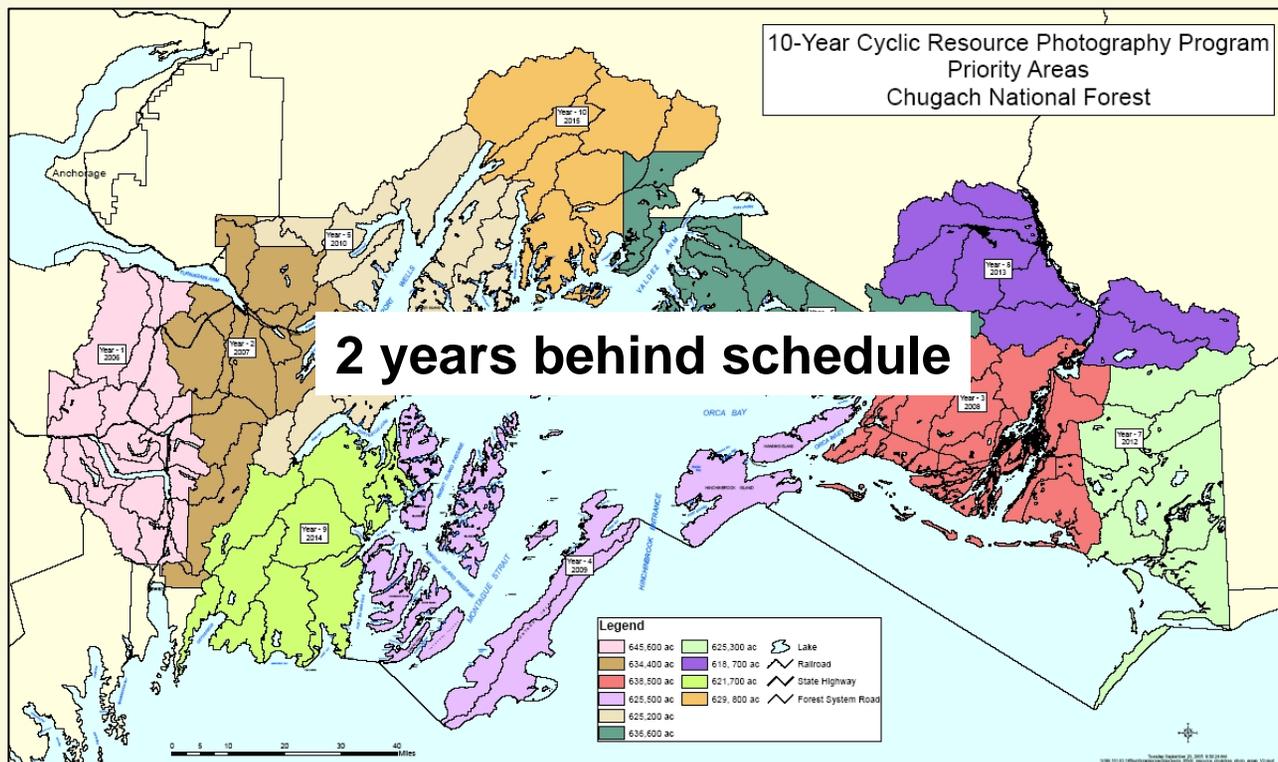
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Direct Digital Image Acquisition

2005

Chugach National Forest develops proposed 10-year 1:15,840 resource imagery cycle, with each annual project area approximately 1000 sq miles (2,500 sq km) and \$64k committed annual funding



Direct Digital Image Acquisition

2006

APFO and Region 10 conduct market research with potential vendors to get a better idea of direct digital reality for AK – positive responses, “We’re definitely interested.”

Developed direct digital request for proposal and posted at fedbizopps

Only three responses

- 1) Inconsistent with due diligence
- 2) 2 at 2-3 times amount of available funding
- 3) 1 for film

While a contract was not put in place this was informationally successful in terms of cost and RFP content improvement

Direct Digital Image Acquisition

Issues

- Cost exceeded available funds
- Partial product cost more than available funds
- Typically very small weather windows in AK: mobilization problematic
- No digital mapping sensor in AK
- AK contractor (North West Group, Calgary AB) no future bidding for film
- Instrument limitations and capabilities need clear definition
- No clear direct digital contracting and evaluation guidelines
 - need to see shift from scale terms to deliverable resolution
- Contractor availability – greater outreach

Needs

- 4-band direct digital imagery (b,g,r,nir)
- Sufficient endlap and sidelap (framing or scanning sensor)
- Full radiometric resolution (greater than 8-bit, low sun angle in AK)
- 15-30 cm (6-12 inch) GSD
- IMU + ABGPS for ortho-ready product with little to no additional ground control

Direct Digital Image Acquisition

Possible Solutions for Alaska

- Multi-year IDIQ AK-specific to keep costs down and commitment alive
- Provision for Alaska with a lower 48 contract (or Canada?) for direct digital

Opportunity to transfer funds when available

Need to fully address contracting: deliverable and evaluation

Keep special set asides for lower 48

- Combine traditionally separate 1:40k and 1:15,840 programs

Cost savings

- InSar for ORI production and DEMs

Need to address inSar contracting, possible IDIQ

Low sun angle in AK

Cloud and fog penetration

Geometric properties good for base control of other data types

COTR Roles and Responsibilities

Current

- Authorized to monitor progress
- Authorized to provide ground and weather conditions
(Weather and ground conditions should be responsibility of vendor, but can be supplemented with field reports)

Potential

- Increased responsibility and accountability, letter to contractor
- Clearer definition on what COTR can communicate with vendor
- More direct communication with vendor
- Snow conditions
- When to begin season (based on contract) and give ok to collect
- APFO to continue inspection
- APFO site visit to AK

An aerial photograph of a landscape, likely a tundra or wetland area. The terrain is characterized by a mix of green, yellow, and brownish-green patches, suggesting different types of vegetation or soil conditions. A prominent, winding river or stream flows through the scene, starting from the bottom left and curving towards the top right. The overall appearance is that of a natural, undisturbed environment.

Models come and go, but a good data set lasts forever.

**Direct digital image near Yakutat, AK
Collected August 2005 with modified COTS Kodak DC4800
Image collected during a NASA lidar mission**